# CONTINENTAL O-470 AND IO-470 SERIES ILLUSTRATED PARTS CATALOG

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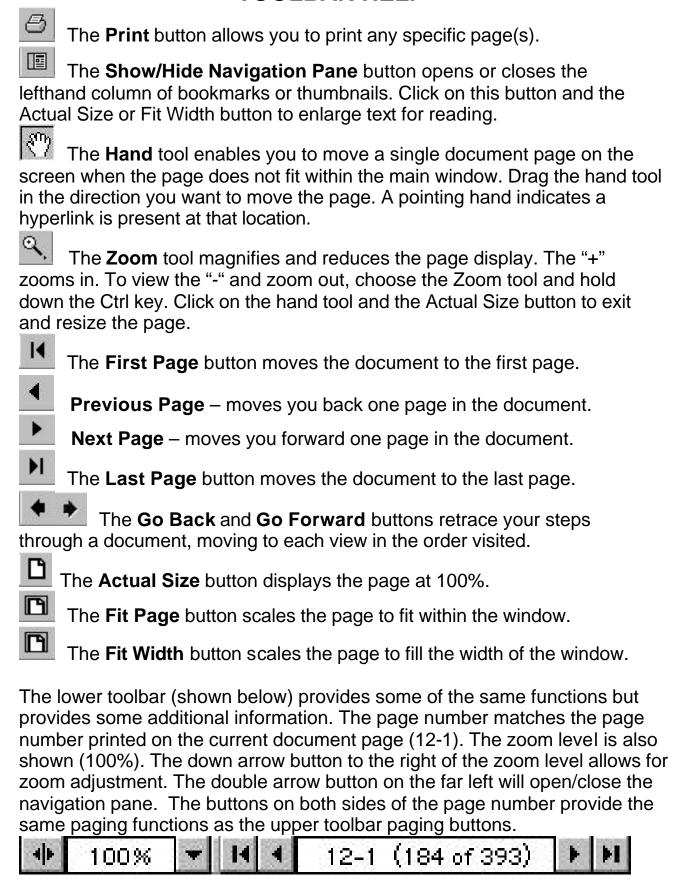
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**TOOLBAR HELP** 

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# ILLUSTRATED PARTS CATALOG FOR 0-470 AND IO-470 SERIES AIRCRAFT ENGINES

# CURRENT STATUS OF PAGES AS OF MARCH 1979

THE ORIGINAL DATE OF THIS PUBLICATION IS NOVEMBER 1975

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#### SECTION I

#### INTRODUCTION

- 1-1. This parts catalog is presented in looseleaf form so changes can be made to the affected pages only. A registration card is included. Those purchasers who register their catalog will be advised of changes as they occur, at a price to be determined at that time. The registrants will also be advised which pages are affected by the change.
- 1-2. Page iii of this publication depicts the current status of pages as of the date listed. Each page in the catalog is also dated. To be current, the date on the page should match the date listed for that page on the Status Page. With each change to the catalog issued, a change to the current Status Page will necessarily be issued.
- 1-3. In this edition, currently available parts are listed for all O-470 and IO-470 engines. If accessories or parts attached to any engine installed in an aircraft manufactured in the United States under a production model number do not appear in this catalog, determine whether they are available from the aircraft manufacturer before placing an order with a Teledyne Continental Authorized Distributor.
- 1-4. Section II contains 75 figures, in each of which one of the major assemblies or groups of the engine is illustrated in "exploded" form. Each figure has its own set of index numbers to indicate the sub-parts. The list of parts in the assembly or group appears on the same page with the illustration or on an adjacent page. The first column of each assembly group fist contains the figure number (not repeated on all lines) and, following a dash, the index numbers of the sub-parts in numerical order. Do not order parts by index number. Use the part number, which appears in the second column. Use the name of the part which appears in the column under the title "DESCRIPTION."
- 1-5. Do not order any parts listed herein when "NO NUMBER" appears on the same line in the

- part number column or when "NOT SOLD" herein abbreviated as "NS" appears in the "UNITS PER ASSEM" column, because these parts are not suitable for installation without factory equipment, or they are major parts of assemblies and are more economically supplied in the assembled condition, or they are assemblies which would have to be disassembled for installation. To replace any detail part "NOT SOLD" order the smallest assembly containing the part (listed above, with name beginning one column to left). To replace any assembly "NOT SOLD," order whatever subassemblies and detail parts (listed below it, with names indented) that are in need of replacement.
- 1-6. Oversize and undersize parts are listed in Section III. These parts must be ordered by the numbers listed herein, with correct descriptions, to avoid errors. Corresponding standard size part numbers in Section II are preceded by a symbol (†) to indicate the availability of the non-standard size. (Refer to list of abbreviations and symbols.)
- 1-7. Sets of parts listed in Section IV are usually wanted in such groups for overhaul work and should be ordered by set part numbers.
- 1-8. Section V contains a list of part numbers arranged in numerical order in the first column. If the number of any desired part is known, the name may be located by referring to the figure and index number in Section II, which is listed opposite the part number in Section V.
- 1-9. Section VI contains a list of customer specifications of each engine model. The parts and accessory differences between the spec and basic engine are listed, as well as a Figure and Index column which will refer back to Section II or to the rear of Section VI for an illustration.
- NOTE... The aircraft manufacturer occasionally changes certain accessories per customer request.

# LIST OF ABBREVIATIONS AND SYMBOLS

SYMBOL	DEFINITION	SYMBOL	DEFINITION
AR	As Required	RF	Refer to
Dia.	Diameter	NPT	National Pipe Tap (or thread)
ID.	Inside Diameter	US	Undersize
In.	Inches	No.	Number
mm	Millimeters	†	Oversize parts available
OD	Outside Diameter	t	Undersize parts available
OP	Optional	* * * *	End of group of attaching parts
=	Oversize	NS	Not Sold
OS PD	Pitch Diameter (thread)	&	Parts included in a set

# **ACCESSORY MANUFACTURERS**

			·
AC	AC Spark Plug Division General Motors Corporation Flint, Michigan	Harrison	Harrison Radiator Division General Motors Corporation Lockport, New York
Air-Maze	Air-Maze Division Rockwell-Standard Corporation Cleveland, Ohio	Marvel	Marvel-Schebler Products Division Borg-Warner Corporation Decatur, Illinois
Bendix	Bendix Products Division Bendix Corporation South Bend, Indiana	Modine	Modine Manufacturing Company Racine, Wisconsin
Bendix- Scintilla	Bendix Corporation Scintilla Division Sidney, New York	Prestolite	The Prestolite Company Division of Eltra Corporation Toledo, Ohio
Champion	Champion Spark Plug Company Detroit, Michigan	Slick	Slick Electro Incorporated Rockford, Illinois
Delco-Remy	United Motors Service General Motors Building Detroit 2, Michigan		

# CUSTOMER SPECIFICATION TO SERIAL NUMBER CROSS REFERENCE

#### O-470-A

- SPEC. 1 40003 thru 40004, 40006, 40009 thru 40026, 40028 thru 40624, 40626 thru 40656, 40658, 40659, 40661 thru 40663, 40665, 40666, 40668 thru 40673, 41001 thru 41043, 41045 thru 41050, 41052 thru 41054, 41056 thru 41062, 41064, 41066 thru 41090, 41093 thru 41136, 41138 thru 41203, 41205 thru 41215, 41217 thru 41221, 41223, 41224, 41226, 41229, 41231 thru 41233, 41235 thru 41259, 41261 thru 41357, 41359 thru 41366, 41368, 41370 thru 41387, 41389 thru 41392, 41394, 41396 thru 41438, 41440 thru 41470, 41472 thru 41483, 41485 thru 41487, 41490 thru 41501, 41503 thru 41508, 41510 thru 41512, 41514 thru 41519, 41521, 41522, 41524, 41527 thru 41534, 41536 thru 41539, 41541 thru 41543, 41545 thru 41547, 41549 thru 41572, 41574 thru 41576, 41578, 41579, 41581 thru 41587, 41589, 41590, 41592 thru 41616, 41618, 41620, 41621, 41624, 41629, 41630, 41632 thru 41640, 41642 thru 41667, 41672 thru 41674
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- SPEC. 17 50189, 50232, 50237, 50252, 50257, 50295, 50344, 50400, 50431, 50516, 50538 thru 50541, 50593, 50619 thru 50623, 50640 thru 50642, 50653, 50655 thru 50659, 50667, 50670, 50678, 50681, 50684, 50687 thru 50690, 50802 thru 50806, 50808 thru 50812

#### O-470-E

SPEC. 3 60001 thru 60026, 60028 thru 60042, 60045 thru 60074, 60078, 60079, 60081 thru 60087, 60089, 60092, 60093, 60095, 60098, 60099, 60103

#### O-470-G

SPEC. 1 70001 thru 70067, 70069 thru 70110, 70112 thru 70164, 70166 thru 70492, 70494 thru 70500, 85504, 85505, 85514, 85515, 86524

#### O-470-J

- SPEC. 1 45001 thru 45175, 45177 thru 45239, 45214 thru 45329, 45331 thru 45335, 45337 thru 45353, 45356 thru 45367, 45369 thru 45372, 45374 thru 45377, 45379 thru 45386, 45388 thru 45399, 45401 thru 45423, 45425 thru 45438, 45441 thru 45448, 45450, 45451, 45453 thru 45458, 45460 thru 45481, 45483 thru 45500, 45503 thru 45514, 45516 thru 45520, 45523 thru 45535, 45537 thru 45553, 45555 thru 45557, 45559 thru 45661, 45563 thru 45570, 45676, 45579 thru 45600, 45602 thru 45632, 45634 thru 45656, 45658 thru 45670, 45672 thru 45686, 45688 thru 45704, 45706, 45707, 45726, 45731, 45732, 45734 thru 45752, 45754 thru 45799, 45801 thru 45836, 45838 thru 45841, 45843 thru 45860, 45862, 45863, 45865 thru 45873, 45875 thru 45878, 45880 thru 45892, 45895 thru 45926, 45928 thru 45931, 45933 thru 45941, 45943 thru 45945, 45965 thru 45975, 45977 thru 45981, 46002, 46004, 46007 thru 46009, 46074, 46075, 46163, 46164, 46170 thru 46175, 46186, 46198, 46215, 46221, 46236 thru 46238, 46255, 46271, 46278
- SPEC. 3 45176, 45240, 45330, 45336, 45354, 45355, 45368, 45378, 45400, 45424, 45439, 45440, 45482, 45515, 45521, 45522, 45562, 45571, 45572, 45578, 45601, 45657, 45671, 45687, 45708, 45842, 45864, 45879, 45927, 45942, 45946 thru 45949, 45953 thru 45955, 45960, 45962, 45976, 45982 thru 45987, 45989 thru 45991, 45994 thru 45996, 45999 thru 46001, 46003, 46005, 46010, 46018, 46019, 46025 thru 46028, 46030 thru 46034, 46039, 46045, 46049 thru 46052, 46063 thru 46068, 46073, 46077 thru 46079, 46082, 46088 thru 46091, 46104, 46105, 46107, 46116, 46122, 46124, 46127, 46132 thru 46145, 46149 thru 46152, 46154 thru 46158, 46160 thru 46162, 46165, 46166, 46168, 46176 thru 46178, 46192, 46225, 46239
- SPEC. 4 45387, 45536, 45554, 45558, 45573 thru 45575, 45577, 45723 thru 45725, 45727 thru 45730, 45733, 45753, 45837, 45874, 45932, 45959, 45993, 45997, 45998, 46006, 46014, 46020 thru 46023, 46035, 46046, 46053, 46059, 46061, 46062, 46081, 46083 thru 46086, 46117 thru 46121, 46123, 46125, 46128 thru 46130, 46146 thru 46148, 46153, 46159, 46169, 46181, 46183 thru 46186, 46188, 46190, 46194, 46195, 46199, 46200, 46203 thru 46205, 46208, 46209, 46211, 46213, 46217 thru 46219, 46222 thru 46224, 46227 thru 46230, 46272, 46276, 46279 thru 46282
- SPEC. 6 45459, 45861, 45893, 45894, 45958, 45961, 45963, 45964, 46011, 46024, 46029, 46036 thru 46038, 46041 thru 46044, 46055 thru 46058, 46060, 46069 thru 46072, 46102, 46103

- 47001 thru 47271, 47273 thru 47292, 47294 thru 47323, 47325 thru 47375, 47377 thru 47473. SPEC. 1 47475 thru 47487, 47489 thru 47512, 47514, 47515, 47517 thru 47579, 47581 thru 47601, 47604 thru 47608, 47610 thru 47614, 47617, 47619 thru 47623, 47625 thru 47643, 47645 thru 47671, 47674 thru 47740, 47742 thru 47760, 47762 thru 47799, 47801 thru 47808, 47812, 47813, 47815, 47817 thru 47851, 47853 thru 47858, 47861, 47864, 47870 thru 47873, 47900, 47902 thru 47919, 47921, 47922, 47929, 47957 thru 47959, 47961 thru 47986. 48013 thru 48026, 48033 thru 48048, 48050, 48054 thru 48056, 48065 thru 48083, 48088 thru 48091, 48093, 48094, 48096 thru 48098, 48100, 48124, 48154 thru 48157, 48159, 48160, 48162 thru 48198, 48201, 48211, 48219, 48220, 48222, 48228, 48230 thru 48238, 48240 thru 48242, 48244, 48247, 48250, 48320, 48349, 48369 thru 48371, 48396, 48403, 48405, 48407, 48415, 48416, 48418, 48421, 48422, 48437 thru 48440, 48444, 48453, 48454, 48465, 48466, 48499, 48500, 48508, 48530, 48590, 48621, 48643, 48689, 48696, 48701 thru 48750, 48791 thru 48793, 48811, 48823, 48833, 48836, 48837, 48839, 48844, 48847, 48848, 48850, 48859, 48862, 48864, 48866, 48895, 48896, 48927, 48950, 48963, 48967, 48970, 48971, 48973, 48976, 48978, 48980, 48983, 48985, 48991, 48996 thru 48998, 55102, 55103
- SPEC. 3 47293, 47474, 47516, 47609, 47615, 47616, 47618, 47624, 47644, 47741, 47761, 47816, 47859, 47860, 47865, 47866, 47874, 47875, 47901, 47950 thru 47955, 48031, 48032, 48049, 48051, 48057, 48058, 48061 thru 48064, 48099, 48153, 48161, 48214, 48216 thru 48218, 48221, 48239, 48282, 48321, 48327, 48348, 48401, 48402, 48417, 48455, 48479, 48483, 48488, 48502, 48503, 48507, 48509, 48539 thru 48541, 48566, 48592, 48613, 48616 thru 48618, 48664, 48666 thru 48668, 48677, 48688, 48690, 48695, 48789, 48840 thru 48842, 48851 thru 48854, 48856 thru 48858, 48860, 48865, 48867, 48875 thru 48877, 48883, 48886, 48887, 48893, 48898, 48899, 48903, 48905, 48908 thru 48910, 48914, 48915, 48919, 48922, 48924 thru 48926, 48928 thru 48930, 48932, 48935, 48939, 48940, 48943, 48945 thru 48949, 48951, 48953, 48958 thru 48960, 48965, 48974, 48975, 48979, 55111,
- SPEC. 5 47488, 47513, 47602, 47603, 47800, 47809 thru 47811, 47814, 47852, 47862, 47863, 47867, 47868, 47876 thru 47878, 47946, 47949, 47956, 47960, 47997, 47998, 48027 thru 48030, 48052, 48053, 48059, 48060, 48084 thru 48086, 48095, 48100, 48101 thru 48106, 48199, 48202 thru 48206, 48223 thru 48225, 48245, 48249, 48276 thru 48281, 48283, 48315 thru 48319, 48330 thru 48333, 48344 thru 48347, 48350 thru 48352, 48372 thru 48381, 48408 thru 48414, 48423 thru 48429, 48458 thru 48461, 48542
- SPEC. 9 47880 thru 47899, 47925 thru 47928, 47930 thru 47945, 47987 thru 47996, 47999 thru 48012, 48108 thru 48123, 48125, thru 48152, 48158, 48207 thru 48210, 48212, 48213, 48215, 48248, 48254, 48258, 48285 thru 48295, 48382 thru 48395, 48404, 48556 thru 48565, 48631, 48633 thru 48642, 48644 thru 48663, 48665, 48710, 48712, 48714 thru 48732, 48743 thru 48764, 48768 thru 48770, 48790, 48796 thru 48810, 48814 thru 48816, 48818 thru 48822, 48824 thru 48831, 48834, 48835
- SPEC. 14 48226, 48227, 48229, 48243, 48246, 48250, 48251 thru 48253, 48255 thru 48257, 48259 thru 48275, 48430 thru 48436, 48441 thru 48443, 48445 thru 48452, 48456, 48462 thru 48464, 48467 thru 48477, 48480 thru 48482, 48484 thru 48487, 48489 thru 48498, 48504 thru 48506, 48510 thru 48529, 48531 thru 48538, 48543 thru 48555, 48567 thru 48582, 48586, 48593 thru 48595, 48597 thru 48612, 48614, 48615, 48619, 48620, 48622 thru 48630, 48632, 48669 thru 48676, 48678, 48681 thru 48687, 48691 thru 48693, 48699 thru 48709, 48711, 48713, 48734 thru 48741, 48765 thru 48767, 48771 thru 48786, 48788, 48794, 48812, 48813
- SPEC. 15 48296 thru 48314, 48322 thru 48326, 48328, 48329, 48334 thru 48343, 48353 thru 48368

- 66001 thru 66520, 66522 thru 66705, 66707 thru 66893, 66899 thru 66937, 66939 thru 67086. SPEC, 1 67088 thru 67096, 67098 thru 67220, 67222 thru 67327, 67330 thru 67341 67343 thru 67349. 67356, 67359, 67367, 67368, 67370 thru 67706, 67740, 67741, 67743, 67764, 67766 thru 67779, 67859, 67869, 67871, 67889 thru 67926, 67928 thru 67935, 67937 thru 67952, 67955 thru 68206, 68208 thru 68234, 68236 thru 68252, 68326, 68361 thru 68400, 68438, 68443 thru 68456, 68458 thru 68500, 68502 thru 68628, 68630 thru 68764, 68766 thru 68790, 68810 thru 68829, 68831 thru 69005, 69015, 69038, 69059, 69060, 80001 thru 80023, 80025 thru 80067, 80083 thru 80149, 80171 thru 80178, 80202, 80222, 80224, 80227, 80228. 80231 thru 80259, 80292, 80299, 80305, 80308 thru 80312, 80314, 80316 thru 80342, 80344 thru 80388, 80390 thru 80516, 80650, 80667, 80671, 80682, 80685 thru 80735, 80737. 80771 thru 80780, 80783 thru 80793, 80795, 80796, 80801 thru 80810, 80812 thru 80918, 80920 thru 81049, 81071, 81073 thru 81093, 81095 thru 81097, 81099 thru 81102, 81125, 81132, 81137, 81188, 81190 thru 81195, 81206 thru 81224, 81238, 81383, 81776, 81871, 81933, 81983, 82046, 82083, 82098, 82119, 82124, 82125, 82128, 82132, 82138, 82149, 82151, 82162, 82163, 82165 thru 82167, 82173, 82180, 82182, 82189, 82195, 82197, 82202. 82203, 82207, 82235, 82244, 82266, 82267, 82274
- SPEC. 2 66894 thru 66898, 66938, 67087, 67221, 67369, 67875, 67953, 67954, 68207, 68235, 68501, 68629, 80343, 80389, 80781, 80782, 80811, 80919, 81070, 81145, 81147, 81149, 81150, 81198, 81237, 81239, 81340, 81432, 81550, 81719, 81788, 81789, 81872, 81873, 81906, 81932, 81982, 82039, 82042, 82043, 82049, 82065, 82071 thru 82073, 82075 thru 82080, 82085, 82087, 82089 thru 82091, 82093, 82094, 82096, 82101 thru 82106, 82108, 82109, 82114, 82120 thru 82123, 82127, 82133 thru 82137, 82139 thru 82142, 82145, 82146, 82150, 82153, 82154, 82156, 82159 thru 82161, 82170, 82177, 82193, 82199, 82222, 82224, 82230, 22234, 82241, 82242, 82243, 82272
- SPEC. 5 67707, 67725, 67729 thru 67739, 67744 thru 67763, 67765, 67780 thru 67807, 68253 thru 68284, 68296, 80542 thru 80600, 81050 thru 81069, 81123, 81124, 81139 thru 81141
- SPEC. 6
  67708 thru 67724, 67726 thru 67728, 67742, 67808 thru 67858, 67860 thru 67868, 67870, 67872 thru 67874, 67876 thru 67888, 67927, 68285 thru 68295, 68297 thru 68325, 68327 thru 68360, 68401 thru 68437, 68439 thru 68442, 68457, 68765, 68791 thru 68805, 68807 thru 68809, 69006 thru 69014, 69016 thru 69037, 69039 thru 69058, 80024, 80068 thru 80082, 80150 thru 80159, 80161 thru 80169, 80179 thru 80201, 80203 thru 80221, 80223, 80225, 80226, 80229, 80230, 80260 thru 80280, 80282 thru 80291, 80293 thru 80298, 80300 thru 80304, 80306, 80307, 80313, 80315, 80517 thru 80541, 80601 thru 80666, 80668 thru 80670, 80672, 80673, 80675 thru 80681, 80683, 80684, 80736, 80738 thru 80771, 80794, 80797 thru 80800, 81094, 81098, 81103 thru 81122, 81126 thru 81131, 81133 thru 81136, 81138, 81142 thru 81144, 81146, 81148, 81151 thru 81169, 81171 thru 81187, 81189, 81199 thru 81205, 81225 thru 81231, 81236, 81240 thru 81299
- SPEC. 10 81072, 81196, 81197, 81232 thru 81235, 81300 thru 81339, 81341 thru 81364, 81394 thru 81399, 81461 thru 81543, 81545, 81547 thru 81549, 81643 thru 81675, 81785 thru 81787, 81791 thru 81793, 81821 thru 81823, 81836, 81842 thru 81849, 81851 thru 81861, 81895 thru 81905, 81907, 81909 thru 81931, 81934 thru 81952, 81958 thru 81981, 81984 thru 81998, 82007 thru 82036, 82041, 82048, 82050 thru 82064, 82066 thru 82070, 82074
- SPEC. 12 81747 thru 81775, 81777 thru 81784, 81790, 81794 thru 81817, 81819, 81824, 81827, 81828, 81837 thru 81841, 81862 thru 81870, 81874, 81875, 81877 thru 81895, 81952 thru 81957
- SPEC. 13 81365 thru 81382, 81384 thru 81393, 81400 thru 81431, 81433 thru 81460, 81544, 81546, 81551 thru 81615, 81618 thru 81642, 81676 thru 81718, 81720 thru 81746, 81818, 81825, 81826, 81829 thru 81835, 81850

- 51001 thru 51077, 51079 thru 51179, 51181 thru 51204, 51206 thru 51212, 51217 thru 51286. SPEC. 1 51289 thru 51354, 51356, 51358 thru 51407, 51410 thru 51471, 51475 thru 51477. 51480. 51481, 51489 thru 51519, 51521, 51523 thru 51607, 51609 thru 51612, 51615, 51617 thru 51633, 51650, 51653, 51656, 51659, 51671, 51674, 51675, 51677, 51685, 51686, 51688. 51690, 51692, 51695 thru 51697, 51700, 51707, 51733, 51737, 51759, 51760, 51762, 51763, 51768, 51773 thru 51779, 51781, 51782, 51790, 51792, 51816, 51832 thru 51851, 51853 thru 51856, 51863, 51871 thru 51873, 51875 thru 51905, 51927 thru 51937, 51939 thru 51958. 51960 thru 51967, 51987 thru 51998, 52000, 52002 thru 52005, 52007 thru 52023, 52027. 52032, 52035 thru 52043, 52048 thru 52102, 52104, 52105, 52108 thru 52128, 52130 thru 52132, 52138 thru 52142, 52144, 52145, 52149, 51151 thru 52157, 52159 thru 52176, 52179. 52181 thru 52214, 52236 thru 52273, 52278 thru 52281, 52298 thru 52312, 52367 thru 52388. 52390, 52391, 52429, 52436 thru 52453, 52456, 52464 thru 52467, 52494, 52496, 52517 thru 52536, 52547, 52548, 52559, 52563, 52567, 52569, 52571, 52580, 52583, 52612 thru 52615, 52617, 52619 thru 52621, 52630, 52643, 52643, 52645 thru 52647, 52650, 52673, 52674. 52695 thru 52699, 52800, 52805, 52808, 52809, 52810, 52811, 52812, 52814, 52815, 52820,, 53700, 53708, 53711, 53721, 53723 thru 53725, 53728 thru 53734, 53744, 53747, 53748, 53753 thru 53755, 53757, 53766, 53767, 53771 thru 53774, 53781, 53782, 53787, 53788, 53791, 53797, 53798
  - SPEC. 8 51634 thru 51645, 51648, 51651, 51652, 51654, 51655, 51657, 51658, 51660 thru 51668, 51670, 51672, 51673, 51678, 51682, 51684, 51687, 51689, 51693, 51694, 51699, 51702, 51706, 51708 thru 51710, 51712 thru 51732, 51734 thru 51736, 51741 thru 51755, 51772, 51784 thru 51789, 51791, 51793 thru 51811, 51830, 51831, 51852, 51857 thru 51862, 51864 thru 51866, 51868 thru 51871, 51874, 51906 thru 51916, 51919 thru 51926, 51938, 51968 thru 51986, 52024 thru 52026, 52133 thru 52135, 52137, 52143, 52146 thru 52148, 52150, 52274 thru 52277, 52282, 52284, 52285, 52287, 52288, 52290 thru 52293, 52295, 52296, 52317 thru 52346, 52362 thru 52366, 52389, 52392 thru 52403, 52407 thru 52428, 52430 thru 52435, 52454, 52455, 52457 thru 52463, 52468 thru 52482, 52511 thru 52516, 52538 thru 52543, 52581, 52580 thru 52558, 52560 thru 52562, 52566, 52568, 52570, 52573 thru 52579, 52581, 52582, 52584 thru 52601, 52749, 52750, 52765
  - SPEC. 10 51680, 51681, 51769, 51999, 52001, 52006, 52177, 52495, 52670, 52671, 52801, 52807, 52813, 52816, 52817, 53726, 53727, 53746, 53752, 53757 thru 53760, 53768, 53769, 53777 thru 53780
  - **SPEC. 11** 51738, 51739, 51764 thru 51767, 51770, 51771, 51783, 51813 thru 51815, 51817 thru 51825, 51829, 52215 thru 52235, 52313 thru 52316, 52404 thru 52406
  - SPEC. 12 51669, 51676, 51679, 51683, 51698, 51700, 51701, 51703 thru 51705, 51756 thru 51758, 51827, 51828, 52283, 52286, 52289, 52294, 52297, 52347 thru 52361, 52483 thru 52492, 52497 thru 52510, 52537, 52544, 52546, 52549, 52564, 52565, 52602 thru 52611, 52622 thru 52629, 52631 thru 52642, 52644, 52651 thru 52669, 52672, 52675 thru 52694, 53701 thru 53707, 53709, 53710, 53712 thru 53720, 53722, 53735 thru 53743, 53745

O-470-P

SPEC. 1 75001 thru 75015

#### O-470-R

- SPEC. 1 83001 thru 83004, 83006 thru 83237, 83240 to 83281, 83315, 83316, 83318, 83319, 83322 thru 83355, 83358 thru 83360, 83362 thru 83386, 83391 thru 83600, 83602 thru 83632, 83635, 83637, 83669, 83671 thru 83699, 83715 thru 83837, 83848 thru 83850, 83852 thru 83857, 83859 thru 83862, 84100, 84158, 84161, 84162, 84164, 84408, 84671, 84673, 84964, 130164, 130354 thru 130356, 130406, 130577, 131187
- SPEC. 2 83238, 83239, 83282 thru 83314, 83317, 83320, 83321, 83356, 83357, 83361, 83387 thru 83390, 83633, 83634, 83636, 83638 thru 83668, 83670, 83700 thru 83714, 83838 thru 83847, 83851, 83858, 83863 thru 83894, 83896 thru 83914, 83930 thru 83936, 83938, 83942 thru 83946, 83948, 83950 thru 83964, 83990, 84086, 130052
- 83895, 83915 thru 83925, 83937, 83939 thru 83941, 83947, 83949, 83965 thru 83989, SPEC. 3 83991 thru 84085, 84087 thru 84099, 84101 thru 84113, 84144 thru 84153, 84155 thru 84157, 84159, 84160, 84163, 84165 thru 84179, 84181 thru 84253, 84255 thru 84288, 84311 thru 84407, 84409 thru 84478, 84480 thru 84633, 84635 thru 84658, 84660 thru 84670, 84672, 84675 thru 84746, 84748 thru 84760, 84762 thru 84765, 84767 thru 84813, 84815, 84826, 84827, 84838 thru 84840, 84842, 84866, 84915 thru 84945, 84950 thru 84963, 84965 thru 84967, 84969 thru 84990, 84992 thru 84999, 130000, 130001, 130008 thru 130036, 130038 thru 130042, 130044 thru 130049, 130051, 130053, 130094, 130095, 130106, 130109 thru 130136, 130138 thru 130161, 130163, 130165 thru 130172, 130174 thru 130190, 130192, 130195, 130208, 130210, 130212, 130214, 130216 thru 130221, 130223, 130225, 130227, 130229, 130231, 130233 thru 130235, 130237, 130239, 130243 thru 130257, 130259 thru 130269, 130271 thru 130277, 130279 thru 130331, 130334 thru 130353, 130357 thru 130359, 130361 thru 130368, 130370 thru 130402, 130404, 130407 thru 130428, 130448, 130449, 130451 thru 130455, 130458, 130480, 130486 thru 130488, 130515, 130519, 130520, 130523 thru 130529, 130531 thru 130543, 130545 thru 130557, 130561, 130567, 130573, 130575, 130576, 130579, 130580, 130583, 130585, 130586, 130589, 130591, 130593 thru 130595, 130597 thru 130605, 130607 thru 130609, 130611 thru 130613, 130615 thru 130624, 130627 thru 130632, 130634 thru 130639, 130646, 130648, 130650, 130652 thru 130654, 130656, 130657, 130659, 130661 thru 130677, 130680, 130684, 130698, 130783, 130786, 130807, 130839, 130858, 130881, 130884, 131207, 131213, 131241, 131372, 131430, 131501, 131502, 131633, 131852, 131853, 131930, 132355, 132359, 132360, 132498, 132765, 133096 thru 133098, 133459 thru 133461, 133559, 133590, 133591, 133750, 133751, 133762, 133912, 133914, 133947, 133948, 191047, 191049, 191125, 191126, 191130, 191131, 191236, 191343, 191577, 191578
- SPEC. 4

  84114 thru 84143, 84289 thru 84309, 84814, 84841, 84848 thru 84858, 84860 thru 84865, 84867 thru 84873, 84875 thru 84878, 84880 thru 84914, 84947 thru 84949, 130096, 130191, 130193, 130194, 130196 thru 130207, 130209, 130211, 130213, 130215, 130222, 130224, 130226, 130228, 130230, 130232, 130236, 130238, 130240 thru 130242, 130403, 130429 thru 130436, 130440 thru 130443, 130445, 130446, 130456, 130460 thru 130463, 130467, 130469, 130471, 130473, 130475, 130477, 130479, 130481, 130483, 130501, 130503, 130513, 130687 thru 130697, 130699 thru 130707, 130709 thru 130727, 130747, 133104

- SPEC. 9 84816 thru 84825, 84828 thru 84837, 84843 thru 84847, 84991, 130007, 130037, 130043, 130050, 130054 thru 130081, 130083 thru 130093, 130099 thru 130105, 130107, 130108, 130437 thru 130439, 130444, 130447, 130457, 130459, 130464, 130466, 130468, 130470, 130472, 130474, 130476, 130478, 130482, 130484, 130485, 130489 thru 130492, 130494 thru 130500, 130502, 130504 thru 130512, 130514, 130516 thru 130518, 130521, 130522, 130558 thru 130560, 130562 thru 130566, 130568 thru 130572, 130574, 130581, 130582, 130584, 130587, 130588, 130590, 130596, 130606
- SPEC. 11 130082, 130098, 130258, 130332, 130333, 130405, 130450, 130493, 130544, 130644, 130708, 130811, 130879, 130883, 130327, 130328, 131438, 133731, 191051, 200023, 200034 thru 200036
- SPEC. 15
  130530, 130610, 130614, 130625, 130626, 130633, 130640 thru 130643, 130645, 130647, 130649, 130651, 130655, 130658, 130660, 130678, 130679, 130681 thru 130683, 130685, 130686, 130729 thru 130746, 130748, 130749, 130751 thru 130782, 130784, 130785, 130787 thru 130806, 130808 thru 130810, 130812 thru 130838, 130840 thru 130857, 130859, 130861 thru 130878, 130885 thru 130892, 130894 thru 130966, 130971 thru 131135, 131137 thru 131186, 131188 thru 131206, 131209 thru 131212, 131214 thru 131240, 131242 thru 131319, 131321 thru 131326, 131329 thru 131356, 131358 thru 131371, 131373 thru 131407, 131409 thru 131429, 131431 thru 131437, 131439 thru 131471, 131473 thru 131500, 131503 thru 131600, 131613 thru 131623, 131626 thru 131632, 131634 thru 131762, 131764 thru 131851, 131855 thru 131909, 131916 thru 131929, 131931 thru 132312, 132314, 132319, 132639 thru 132641, 133117, 133118, 133250, 133462, 133463, 133735, 133949, 191053, 191176, 191426, 191782
- SPEC, 20 132313, 132315 thru 132318, 132320 thru 132354, 132361 thru 132447, 132449 thru 132530, 132532, 132534 thru 132554, 132556 thru 132615, 132618 thru 132634, 132636, 132637. 132645 thru 132764, 132772 thru 132927, 132929 thru 132931, 132933 thru 133066, 133068, 133069, 133071 thru 133093, 133104 thru 133116, 133119 thru 133127, 133129 thru 133136, 133138, 133140, 133141, 133144, 133145, 133147, 133149 thru 133151, 133153. 133155 thru 133249, 133251 thru 133294, 133314, 133315, 133321 thru 133339, 133341 thru 133348, 133350 thru 133372, 133398 thru 133457, 133476, 133479, 133484, 133485, 133497, 133498, 133500, 133505, 133508, 133510 thru 133558, 133560 thru 133589, 133592 thru 133730, 133732 thru 133734, 133738 thru 133740, 133752 thru 133758, 133761, 133763, 133766 thru 133876, 133883 thru 133911, 133913, 133919 thru 133946, 133951 thru 133999. 191001 thru 191009, 191011 thru 191046, 191048, 191054 thru 191124, 191127 thru 191129, 191132 thru 191174, 191177 thru 191234, 191237 thru 191342, 191352 thru 191356, 131371 thru 191388, 191390 thru 191394, 191397 thru 191422, 191432 thru 191480, 191485. 191489 thru 191494, 191496 thru 191503, 191505 thru 191507, 191509, 191510, 191514 thru 191519, 191521 thru 191526, 191528 thru 191560, 191585, 191587 thru 191781, 191783 thru 191851, 191856 thru 191912, 191914 thru 191957, 191963 thru 191999, 194551 thru 194580, 194587 thru 194613, 194619 thru 194659, 194662 thru 194709, 194711 thru 194720, 194726, 194729, 194732, 194735 thru 194737, 194739, 202619

- SPEC. 23 132531, 132533, 132555, 132616, 132617, 132635, 132638, 132642 thru 132644, 132766 thru 132771, 132928, 132932, 133067, 133070, 133128, 133137, 133139, 133142, 133143, 133146, 133148, 133152, 133154, 133295 thru 133298, 133300 thru 133313, 133316 thru 133320, 133373 thru 133397, 133464 thru 133475, 133477, 133478, 133480 thru 133483, 133486 thru 133496, 133498, 133501 thru 133504, 133506, 133507, 133509, 133744 thru 133749, 133877 thru 133882, 191175, 191179, 191344 thru 191351, 191357 thru 191370, 191389, 191481 thru 191484, 191486 thru 191488, 191495, 191504, 191508, 191511 thru 191513, 191520, 191527, 191561 thru 191576, 191579 thru 191581, 191583, 191852 thru 191855, 194618, 202970, 203098, 222419, 222636, 222637, 222638
- 194742, 194750 thru 194758, 194760 thru 194919, 194921 thru 194924, 194926 thru 195000, SPEC. 25 200000 thru 200019, 200030, 200038 thru 200134, 200136 thru 200138, 200140 thru 200199, 202501 thru 202555, 202557, 202558, 202560 thru 202565, 202568 thru 202618, 202620 thru 202790, 202793 thru 202812, 202814 thru 202888, 202892 thru 202931, 202933, 202938, 202941 thru 202947, 202950, 202952, 202962 thru 202969, 202971 thru 203067, 203069 thru 203096, 203099, 203100, 203102 thru 203170, 203172 thru 203178, 203181 thru 203200, 203202 thru 203296, 203299 thru 203329, 203331, 203332, 203333, 203335 thru 203342, 203344 thru 203355, 203357 thru 203374, 203388 thru 203391, 203395 thru 203440, 203442 thru 203500, 211000 thru 211029, 211031 thru 211111, 211113 thru 211129, 211124 thru 211145, 211147, 211150, 211151, 211152, 211154, 211156, 211158, 211159, 211160, 211168, 211171 thru 211189, 211191 thru 211198, 211200 thru 211232, 211234 thru 211245, 211247 thru 211262, 211266 thru 211301, 211306, 211309, 211310, 211314, 211316 thru 211369, 211371 thru 211384, 211386 thru 211407, 211410 thru 211418, 211420 thru 211424, 211426, 211428, 211430 thru 211467, 211469 thru 211474, 211476 thru 211480, 211483, 211484, 211485, 211487 thru 211495, 211497, 211498, 211500 thru 211510, 211512, 211513, 211516 thru 211535, 211539 thru 211547, 211550 thru 211554, 211556 thru 211564, 211567, 211568, 211574 thru 211583, 211585, 211588 thru 211593, 211596 thru 211606, 211609 thru 211613, 211618 thru 211623, 211625 thru 211635, 211638, 211639, 211640, 211642, 211643, 211644, 211646, 211647, 211654 thru 211664, 211669 thru 211676, 211678 thru 211687, 211689, 211691 thru 211697, 211699 thru 211704, 211707, 211714 thru 211730, 211732, 211734 thru 211747, 211754, 211755, 211757 thru 211763, 211765 thru 211771, 211777, 211778, 211779, 211784 thru 211793, 211798, 211800, 211801, 211802 thru 211809, 211811 thru 211821, 211823, 211826, 211828, 211830, 211832, 211834, 211836, 211837, 211839, 211841, 211843, 211848 thru 211864, 211866 thru 211879, 211881, 211883 thru 211890, 211892 thru 211908, 211910, 211912 thru 211919, 211921, 211923 thru 211927, 211929 thru 211935, 211939 thru 211944, 211946, 211947, 211948, 211952 thru 211962, 211964, 211966 thru 211983, 211986 thru 211200, 222401 thru 222404, 222406, 222410, 222412 thru 222415, 222420 thru 222429, 222432 thru 222440, 222443 thru 222458, 222462 thru 222478, 222480, 222482, 222484 thru 222489, 222492 thru 222499, 222501 thru 222503, 222505 thru 222545, 222547 thru 222556, 222559, 222568 thru 222570, 222572 thru 222575, 222578 thru 222589, 222591 thru 222600, 222642 thru 222667, 222670 thru 222691, 222693, 222695 thru 222712, 222714 thru 222716, 222720 thru 222737, 222739, 222741 thru 222744, 222747 thru 222797, 222800 thru 222816, 222819 thru 222829, 222831 thru 222834, 222836 thru 222840, 222842 thru 222849, 222851 thru 222859, 222871, 222873 thru 222898, 222900 thru 222902, 222904, 222907, 222909, 222911, 222912, 222927 thru 222949, 222951, 222953 thru 222954, 222957, 222959 thru 222966, 222968 thru 223000, 223500 thru 223521, 223524 thru 223528, 223534 thru 223552, 223554 thru 223556, 223560 thru 223595, 223599 thru 223618

211408, 211409, 211419, 211468, 211475, 211481, 211482, 211486, 211496, 211499, 211511. **SPEC. 35** 211514, 211515, 211536, 211537, 211538, 211548, 211549, 211555, 211566, 211570 thru 211573, 211584, 211586, 211587, 211594, 211595, 211607, 211608, 211645, 211648, 211649. 211651, 211652, 211653, 211665 thru 211668, 211690 211698, 211701 thru 211705, 211708 thru 211713, 211733, 211748 thru 211751, 211753, 211756, 211764, 211772 thru 211776, 211780 thru 211783, 211794, 211795, 211799, 211801, 211810, 211822, 211824, 211825, 211827, 211829, 211831, 211833, 211835, 211838, 211840, 211842, 211844, 211845, 211846, 211865, 211880, 211882, 211891, 211905, 211909, 211911, 211920, 211922, 211928, 211936, 211937, 211938, 211945, 222984, 222985, 222405, 222407 thru 222409, 222411, 222430, 222431. 222441, 222442, 222459 thru 222461, 222483, 222490, 222491, 222500, 222546, 222560 thru 222562, 222571, 222576, 222577, 222590, 222601 thru 222635, 222638, 222639, 222669, 222692, 222694, 222713, 222717 thru 222719, 222738, 222740, 222745, 222746, 222798, 222799, 222817. 222835, 222868 thru 222870, 222872, 222899, 222908, 222910, 222913 thru 222926, 222950, 222952, 222955, 222956, 222958, 222967, 223522, 223529 thru 223533, 223553, 223557 thru 223559, 223596 thru 223598

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SPEC. 1 71005 thru 71020, 71022 thru 71117, 71119 thru 71121, 71123 thru 71159, 71161 thru 71315, 71317 thru 71385, 71387 thru 71496, 71498 thru 71678, 71681 thru 71749, 71751 thru 71801, 71803 thru 71807, 71809 thru 71870, 71872 thru 71911, 71913 thru 71946, 71948 thru 72033, 72036 thru 72257, 72259 thru 72299, 72301, 72302, 72303, 72306 thru 72314, 72317 thru 72333, 72335 thru 72342, 72345 thru 72349, 72351 thru 72364.

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- SPEC. 1 75001 thru 75011, 75013 thru 75077, 75079 thru 75081, 75084 thru 75118, 75120 thru 75129, 75131 thru 75135, 75142, 75160 thru 75184, 75186 thru 75235, 75238, 75241 thru 75264, 75266 thru 75339, 75341 thru 75344, 75346 thru 75355, 75357, 75367, 75370, 75453 thru 75460, 75464 thru 75471, 75473 thru 75476, 75478, 75481, 75492, 75493, 75495 thru 75502, 75506 thru 75510, 75512 thru 75518, 75620 thru 75524, 75526, 75527, 75529 thru 75532, 75535 thru 75549, 75551 thru 75553, 75565, 75557 thru 75568, 75570, 75575 thru 75578, 75664 thru 75669, 75722, 75741, 75743 thru 75749, 75772, 75954, 75955, 75964, 75965, 79011, 79040, 79043, 79050, 79055, 79134, 79145, 79158, 79159, 79191, 79275, 79391, 79476, 79616, 79618, 79622, 79626, 79644, 79645, 79683, 79687, 104047, 104136, 104137, 104180, 104181
- SPEC. 4 75130, 75136 thru 75141, 75143 thru 75159, 75340, 75345, 75356, 75358 thru 75366, 75368, 75369, 75371 thru 75377, 75380 thru 75392, 75394 thru 75417, 75419, 75420, 75422 thru 75425, 75427, 75428, 75461 thru 75463, 79112, 79114, 104362, 104363
- **SPEC. 5** 75236, 75239, 75240, 75443, 75451, 75482, 75483, 75511, 75519, 75528, 75550, 75600, 75601, 79205, 79209, 79236, 79237, 79338, 79625, 79627
- SPEC. 7 75421, 75426, 75429 thru 75442, 75444 thru 75450, 75452, 75472, 75477, 75479, 75480, 75484 thru 75488, 75490, 75494, 75503 thru 75505
- SPEC. 9 75525, 75533, 75534, 75554, 75556, 75564, 75565, 75571 thru 75574, 75579 thru 75599, 75602 thru 75612, 75620 thru 75637, 75642, 75651, 75717 thru 75721, 75723 thru 75740, 75742, 75750 thru 75770, 75773, 75774, 75776 thru 75859, 75861 thru 75874, 75876 thru 75953, 75966 thru 75963, 75966 thru 75991, 79001, 79016 thru 79039, 79041, 79042, 79044 thru 79049, 79051 thru 79054, 79056 thru 79064, 79072 thru 79083, 79102 thru 79111, 79174, 79176 thru 79178, 79195, 79198, 79272, 79273, 79381, 79382, 79438, 79491, 79521, 79562, 79578, 79601, 79614, 79659 thru 79662, 79684, 79711 thru 79713, 79785, 79830, 104021, 104022, 104036, 104038, 104048, 104100, 104108, 104145, 104358, 104371

- SPEC. 12 75613 thru 75617, 75638 thru 75641, 75643 thru 75648, 75650, 75653 thru 75655, 75657 thru 75663, 75670 thru 75690, 75692 thru 75716, 75992 thru 75999, 79002 thru 79010, 79013 thru 79015, 79084 thru 79100, 79113, 79115 thru 79126, 79128 thru 79133, 79135 thru 79144, 79146 thru 79157, 79160, 79161, 79166, 79170 thru 79173, 79175, 79179 thru 79190, 79192 thru 79194, 79196, 79197, 79200, 79202 thru 79204, 79206, 79208, 79229, 79628, 79641, 79658, 79685, 79686, 79710, 79932, 79933, 104020, 104060, 104086, 104187, 104188, 104288 thru 104291, 104317, 104318, 104407, 104412, 104413, 104432, 104447, 104450, 104451, 104453, 104605, 104637, 104638
- SPEC. 15
  79162 thru 79165, 79168, 79169, 79199, 79201, 79207, 79210 thru 79227, 79238 thru 79242, 79244 thru 79271, 79274, 79276 thru 79278, 79285 thru 79337, 79339 thru 79343, 79345 thru 79365, 79368, 79369, 79383 thru 79390, 79392 thru 79413, 79415, 79419 thru 79421, 79426, 79427, 79429 thru 79437, 79439 thru 79475, 79477 thru 79489, 79492, 79493, 79495 thru 79520, 79522 thru 79526, 79528 thru 79538, 79540 thru 79542, 79544, 79546 thru 79551, 79553, 79556 thru 79558, 79560, 79564, 79566 thru 79577, 79579, 79581 thru 79600, 79603 thru 79609, 79613, 79615, 79617, 79619, 79808, 79809, 79811, 79831, 79850, 79851, 79854, 79855, 79857, 79879, 79880, 104465, 104494, 104514, 104539, 104540
- SPEC. 19 79629 thru 79640, 79642, 79646, 79649 thru 79654, 79663 thru 79682, 79688 thru 79694, 79697, 79700 thru 79709, 79714 thru 79743, 79747 thru 79750, 79752 thru 79757, 79760, 79761, 79763 thru 79765, 79767 thru 79784, 79786 thru 79807, 79810, 79812 thru 79817, 79819 thru 79823, 79825 thru 79828, 79832 thru 79846, 79852, 79853, 79856, 79858 thru 79878, 79881 thru 79901, 79904 thru 79906, 79908 thru 79925, 79934 thru 79965, 79967, 79968, 79971, 79973 thru 79999, 104000 thru 104008, 104010 thru 104017, 104023 thru 104029, 104033, 104037, 104039 thru 104044, 104046, 104049 thru 104052, 104056, 104058, 104068 thru 104538, 104556 thru 104559, 104569, 104570, 104587, 104588, 104610, 104611, 104628, 104629, 104634, 104642, 104657 thru 104660, 104683, 104686
- SPEC. 25 79766, 79818, 104009, 104218, 104244, 104245, 104294, 104295, 104380, 104405, 104436, 104437, 104442, 104466 thru 104468, 104492, 104495 thru 104497, 104501 thru 104508
- SPEC. 27 104053 thru 104055, 104057, 104059, 104061, 104062, 104069 thru 104082, 104084, 104087 thru 104093, 104095, 104097 thru 104099, 104101 thru 104107, 104109 thru 104115, 104117, 104119 thru 104135, 104138 thru 104144, 104146 thru 104152, 104158 thru 104168, 104171 thru 104179, 104182 thru 104186, 104190 thru 104207, 104209 thru 104214, 104216, 104217, 104219, 104220, 104223, 104226, 104228 thru 104243, 104246 thru 104267, 104269 thru 104284, 104287, 104292, 104293, 104299 thru 104309, 104311 thru 104316, 104319 thru 104341, 104343 thru 104352, 104354 thru 104357, 104364 thru 104369, 104372 thru 104379, 104381, 104382, 104384 thru 104387, 104389 thru 104399, 104402 thru 104404, 104418 thru 104421, 104423 thru 104430, 104457, 104488, 104489, 104526, 104560 thru 104562, 104572, 104573, 104575, 104576, 104591, 104592, 104598, 104601, 104609, 104613 thru 104617, 104630, 104632, 104645 thru 104650, 104665, 104666, 104684, 104685
- SPEC. 30 79966, 79972, 104034, 104035, 104094, 104096, 104154, 104221, 104222, 104310, 104401, 104414, 104440, 104460, 104461, 104462, 104469, 104474, 104481, 104483, 104490, 104491, 104512, 104513, 104520, 104532, 104533, 104567, 104568, 104571, 104574, 104681, 104682, 104585, 104586, 104594, 104602, 104607, 104619, 104620, 104621, 104631, 104633, 104636, 104639, 104640, 104641, 104643, 104644, 104653, 104664, 104663, 104664
- SPEC. 42 104477, 104478, 104510, 104511, 104550, 104551, 104564, 104565, 104577 thru 104580, 104593, 104595 thru 104597, 104599, 104600, 104608, 104612, 104622 thru 104627, 104655, 104656, 104667, 104668, 104671 thru 104682, 104687 thru 104702
- SPEC. 50 104635, 104651, 104652

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- SPEC. 1 77001, 77006 thru 77325, 77346, 77387 thru 77389, 77393 thru 77526, 77573 thru 77580, 77582, 77585 thru 77587, 77591, 77592, 77610, 77621, 77639, 77643, 77772, 77866, 77898, 77907, 77911, 77922, 77929
- SPEC. 5 77347 thru 77386, 77390 thru 77392, 77532 thru 77560, 77562 thru 77572, 77622, 77623
- SPEC. 6 77581, 77583, 77584, 77589, 77590, 77595 thru 77609, 77611 thru 77620, 77624 thru 77638, 77640 thru 77642, 77645 thru 77706, 77708 thru 77747, 77749 thru 77771, 77773 thru 77784, 77786, 77789, 77835 thru 77851, 77862 thru 77865, 77867 thru 77877, 77879, 77883, 77885, 77895, 77897, 77899, 77900, 77903, 77905, 77906, 77910
- SPEC. 7 77785, 77787, 77788, 77790 thru 77816, 77818 thru 77829

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- SPEC. 1 76001 thru 76088, 76090 thru 76124, 76126, 76128 thru 76135, 76938, 135103, 135125, 135126, 135140, 135155, 135162, 135165, 135187, 135203, 135204, 135218, 135219, 135277, 135281 thru 135284, 135287, 135299, 135303, 135305 thru 135309, 135311, 135318, 135319, 135324, 135326, 135345, 135368 thru 135370, 135372, 135389 thru 135401, 135421 thru 135425, 135448, 135450, 135451, 135453, 135459 thru 135461, 135463 thru 135467, 135472 thru 135481, 135496 thru 135501, 135508, 135533 thru 135535, 135545 thru 135549, 135555, 135556, 135560, 135562, 135564, 135567, 135578, 135588 thru 135590, 135592 thru 135599, 135616, 135618, 135619, 135644, 135646, 135647, 135662, 135668, 135672, 135710, 135711, 135717, 135732, 135733, 135750, 135752
- SPEC. 3 76125, 76127, 76136 thru 76385, 76387 thru 76436, 76438 thru 76450, 76452 thru 76570, 76577 thru 76606, 76612 thru 76661, 76663, 76664, 76668, 76673 thru 76677, 76679 thru 76684, 76728, 76730, 76736, 76737, 76741, 76756, 76790, 76802, 76804, 76807, 76824, 76835, 76857, 76862, 76863, 76907, 76913, 76917, 76966, 135021, 135041, 135045, 135061, 135065, 135067, 135096, 135099, 135113, 135133, 135139, 135145, 135160, 135213 thru 135215, 135260, 135261, 135294, 135310, 135371, 135377, 135384 thru 135386, 135426, 135452, 135470, 135471, 135484 thru 135488, 135505, 135606, 135520, 135538 thru 135540, 135563, 135569, 135570, 135577, 135579 thru 135586, 135611, 135612, 135622, 135623, 135649, 135657, 135658, 135663, 135674, 135675, 135677, 135702, 135709, 135712, 135713, 135715, 135716
- SPEC. 5
  76437, 76751 thru 76576, 76607 thru 76609, 76611, 76662, 76665 thru 76667, 76669, 76671, 76678, 76696, 76697, 76703, 76707, 76713, 76720, 76727, 76729, 76738, 76744, 76749, 76757, 76758, 76765, 76769, 76789, 76801, 76803, 76806, 76808, 76810, 76815, 76827, 76861, 76871, 76878, 76906, 76908, 76911, 76914 thru 76916, 76929, 76941, 76945, 76946, 76983, 76984, 135022, 135038 thru 135040, 135057, 135063, 135064, 135066, 135068 thru 135071, 135074, 135101, 135102, 135109 thru 135112, 135127 thru 135130, 135137, 135138, 135142, 135158, 135161, 135179, 135211, 135212, 135246, 135293, 135374, 135402, 135405 thru 135412, 135442, 135483, 135521, 135757, 135762, 135782, 135797
  - SPEC. 7
    76670, 76672, 76685 thru 76695, 76698 thru 76702, 76704 thru 76706, 76722 thru 76724, 76731 thru 76735, 76751 thru 76755, 76759 thru 76764, 76766 thru 76768, 76770 thru 76778, 76780 thru 76788, 76791 thru 76800, 76809, 76811 thru 76814, 76816 thru 76821, 76829, 76836 thru 76839, 76848 thru 76856, 76901 thru 76905, 76912, 76918 thru 76928, 76930 thru 76936, 76939, 76940, 76942 thru 76944, 76947 thru 76964, 76968 thru 76970, 76974, 76977, 76981, 76982, 76985 thru 76993, 135012 thru 135020, 135023 thru 135026, 135028 thru 135037, 135042 thru 135044, 135051 thru 135056, 135058, 135059, 135107, 135108, 135132, 135494, 135495, 135518, 135519, 135613, 135634, 135653 thru 135656, 135660, 135673, 135745, 135761, 135763 thru 135770, 135774, 135776, 135799, 135801
  - SPEC. 8 76708 thru 76712, 76739, 76740, 76742, 76743, 76745 thru 76748, 76750, 135542

- SPEC. 9 76714 thru 76719, 76779 thru 76785, 76965, 76967, 76972, 76973, 76975, 76976, 76978 thru 76980, 76995 thru 76999, 135004 thru 135011, 135046 thru 135050, 135131, 135134 thru 135136, 135457
- SPEC. 11 76822, 76823, 76826, 76828, 76830 thru 76834, 76840 thru 76847, 76859, 76860, 76864, 76870, 76886 thru 76900, 76910, 76994, 135072, 135073, 135141, 135143, 135144, 135146 thru 135154, 135163, 135164, 135168, 135169, 135171 thru 135176, 135180, 135186, 135189, 135192, 135194, 135195, 135201, 135205
- SPEC. 17 135060, 135062, 135075 thru 135095, 135097, 135098, 135100, 135104 thru 135106, 135114 thru 135124, 135157, 135159, 135166, 135167, 135170, 135177, 135178, 135181 thru 135184, 135206 thru 135210, 135232, 135237, 135238, 135241, 135242, 135244, 135248, 135249, 135251, 135256 thru 135258, 135262, 135264, 135266, 135268, 135270 thru 135276, 135278 thru 135280, 135285, 135286, 135288, 135290, 135291, 135297, 135300 thru 135302, 135304, 135312 thru 135317, 135327, 135332 thru 135339, 135351 thru 135367, 135373, 135375, 135376, 135378 thru 135383, 135388, 135456, 135708, 135718 thru 135721
- SPEC. 18 135216, 135217, 135220 thru 135227, 135229 thru 135231, 135233, 135239, 135240, 135243, 135245, 135247, 135250, 135252, 135253, 135259, 135263, 135265, 135267, 135269, 135289, 135292, 135295, 135296, 135298, 135328 thru 135331, 135341 thru 135344, 135348 thru 135351, 135403, 135404, 135414, 135416 thru 135420, 135428, 135430 thru 135443, 135446, 135449, 135454, 135455, 135458, 135462, 135482, 135502, 135503, 135507, 135512 thru 135517, 135522, 135524 thru 135532, 135536, 135541, 135543, 135544, 135550 thru 135554, 135657 thru 135559, 135561, 135565, 135566, 135568, 135571 thru 135576, 135600 thru 135606, 135608, 135609, 135610, 135615, 135620, 135624 thru 135633, 135635, 135636, 135638, 135640, 135641, 135643, 135652, 135669, 135722, 135753, 135754, 135759, 135760, 135779, 135780, 135781, 135785, 135786, 135796, 135798

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SPEC. 1 87002 thru 87009, 87011 thru 87099, 87100 thru 87169

#### 10-470-J

SPEC. 1 85101 thru 85270, 85272 thru 85399, 85400 thru 85416, 85420, 85421, 85424, 85426, 85427, 85432, 85433, 85434

#### 10-470-K

- SPEC. 3 86001 thru 86258, 86260 thru 86310, 86313 thru 86532, 86534 thru 86583, 86585 thru 86611, 86613 thru 86716, 86718 thru 86741, 86744 thru 86798, 86800 thru 86805, 86809 thru 86851, 86854, 86856 thru 86946, 86949 thru 86969, 86971, 86972, 86974, 86975, 86977 thru 86980, 86984, 86985, 86986, 86989
- SPEC. 11 86981, 86982, 86996 thru 87000, 203501 thru 203505, 203508 thru 203511, 203518 thru 203536

#### 10-470-L

- SPEC. 1 90001 thru 90060, 90063 thru 90252, 91236, 91237, 91242, 91674, 91675, 155268
- SPEC. 3 90253 thru 90422, 90424 thru 90458, 90460 thru 90522, 90524 thru 90551, 90553 thru 90559, 90564, 90722, 90918, 91673, 91768, 91954, 91955, 155056, 155528, 155529, 155547, 155894, 155895

- SPEC. 5 90552, 90560 thru 90563, 90565 thru 90596, 90598 thru 90606, 90609 thru 90645, 90647 thru 90668, 90670 thru 90713, 90715, 90718 thru 90721, 90723 thru 90740, 90742 thru 90763, 90766 thru 90833, 90835 thru 90912, 90914, 90916, 90917, 90919 thru 90942, 90944 thru 91043, 91045 thru 91071, 91073 thru 91098, 91100 thru 91153, 91155 thru 91235, 91238 thru 91241, 91243 thru 91260, 91262 thru 91265, 91267, 91268, 91270 thru 91304, 91306 thru 91320, 91322 thru 91355, 91357 thru 91457, 91459 thru 91515, 91518 thru 91564, 91566 thru 91672, 91676 thru 91702, 91704 thru 91716, 91746, 91747, 91790, 91836, 91854 thru 91857, 91872, 91886, 91926, 91930, 91931, 91934, 91939, 91940, 91956, 155011, 155017, 155019, 155020, 155093, 155106, 155108, 155120, 155233, 155236 thru 155238, 155267, 155285, 155530, 155557, 155877
- SPEC. 8 91703, 91718 thru 91745, 91748 thru 91767, 91769 thru 91789, 91791 thru 91795, 91798, 91800 thru 91810, 91812 thru 91835, 91837 thru 91853, 91858 thru 91871, 91873 thru 91885, 91887 thru 91925, 91932, 91933, 91935, 91937, 91938, 91941 thru 91953, 91957 thru 91984, 91986 thru 91999, 155001 thru 155010, 155012 thru 155016, 155018, 155021 thru 155045, 155048 thru 155055, 155057 thru 155087, 155089 thru 155092, 155094 thru 155105, 155109 thru 155112, 155192, 155195, 155230, 155231, 155263 thru 155265, 155293, 155295, 155300, 155373 thru 155378, 155415, 155418, 155421, 155438 thru 155440, 155471, 155473, 155596, 155597, 155684 thru 155687, 155976, 201076, 201155
- SPEC. 9 155118, 155121 thru 155166, 155159, 155162 thru 155170, 155176 thru 155191, 155193, 155194, 155196 thru 155199, 155202 thru 155229, 155232, 155234, 155235, 155239 thru 155262, 155269 thru 155284, 155286 thru 155292, 155294, 155296 thru 155333, 155336, 155338 thru 155349, 155352, 155353, 155355 thru 155372, 155386, 155388 thru 155414, 155416, 155417, 155419, 155420, 155423 thru 155437, 155441 thru 155449, 156452, 155453, 155472, 155482, 155486, 155488, 155491 thru 155493, 155497 thru 155501, 155509, 155511, 155512, 155514 thru 155516, 155519, 155525, 155534 thru 155536, 155538, 155540, 155543 thru 155646, 156573 thru 156680, 155690 thru 155595, 155598 thru 155603, 155606 thru 155617, 155620 thru 155630, 155635 thru 155677, 155688 thru 155762, 155764 thru 155767, 155769 thru 155782, 155784 thru 155789, 155792 thru 155876, 155879 thru 155883, 155885 thru 155888
- SPEC. 13 155379 thru 155384, 155387, 155422, 155454 thru 155468, 155483, 155484, 155502 thru 155508, 155510, 155517, 155518, 155526, 155527, 155531 thru 155533, 155548 thru 155554, 155558 thru 155572, 155583, 155588, 155589, 155604, 155605, 155618, 155619, 155631 thru 155634, 155783
- SPEC. 15 155878, 155884, 155889 thru 155893, 155896 thru 155942, 155944 thru 155973, 155977, 155979 thru 15600, 201001 thru 201021, 201023, 201025 thru 201028, 201031 thru 201052, 201056 thru 201060, 201150, 201156, 201377, 201458
- SPEC. 18 155790, 155791, 201147, 201148, 201153, 201168, 201351, 201425, 201426, 201434, 201459, 201551, 201552
- SPEC. 19 201063 thru 201075, 201077 thru 201082, 201085 thru 201146, 201157 thru 201167, 201171 thru 201199, 201200 thru 201215, 201218, 201219, 201222 thru 201269, 201272 thru 201305, 201308 thru 201347, 201349, 201350, 201352 thru 201357, 201359 thru 201366, 201378 thru 201393, 201395, 201404 thru 201424, 201429 thru 201433, 201435 thru 201453, 201455, 201456, 201465 thru 201505, 201508 thru 201521, 201532, 201533, 201534, 201550, 201604, 201678, 201679
- SPEC. 21 201523 thru 201527, 201529, 201530, 201535, 201536 thru 201549, 201553 thru 201575, 201577 thru 201595, 201597, 201598, 201600 thru 201602, 201605 thru 201671, 201674, 201675, 201677, 201680 thru 201724

#### 10-470-M

SPEC. 1 93001 thru 93028, 93031 thru 93199, 93200 thru 93216, 93228 thru 93232, 93235

#### 10-470-N

- SPEC. 1 95001 thru 95251, 95253 thru 95446, 95453 thru 95455, 95458 thru 95491, 95493, 95494, 95496 thru 95502, 95504 thru 95512, 95514 thru 95625, 95627 thru 95649, 95651 thru 95780, 95784 thru 95789, 95792 thru 95799, 95800, 95801, 95802, 95809, 95810, 95811, 95813 thru 95832, 95834, 95835, 95836, 95838
- SPEC. 7 95650, 95839 thru 95850, 95898, 95901, 95912
- SPEC. 10 95851 thru 95894, 95813
- SPEC. 11 95895, 95896, 95897, 96899, 95900, 95902 thru 95911, 95913 thru 95916

#### 10-470-S

- SPEC. 1 102001 thru 102275, 102532, 102997
- SPEC. 2 102276 thru 102297, 102301 thru 102323, 102329 thru 102357, 102360 thru 102363, 102365, 102368 thru 102425, 102427, 102428, 102433, 102434, 102440, 102443, 102444, 102446, 102449, 102451, 102452, 102454, 102456, 102457, 102461 thru 102472, 102477 thru 102482, 102492 thru 102497, 102503 thru 102507, 102510 thru 102528, 102530, 102531, 102533 thru 102535, 102537 thru 102539, 102641 thru 102544, 102546, 102547, 102555 thru 102569, 102589 thru 102610, 102619 thru 102632, 102635, 102644 thru 102664, 102668 thru 102671, 102675, 102677 thru 102695, 102700 thru 102707, 102709, 102712, 102714 thru 102755, 102761 thru 102768, 102774 thru 102785, 102792, 102794, 102796, 102798, 102800 thru 102820, 102822 thru 102825, 102827, 102836 thru 102842, 102844 thru 102870, 102872 thru 102879, 102881 thru 102883, 102886 thru 102901, 102912, 102914, 102919 thru 102937, 102939 thru 102959, 102961 thru 102967, 102969, 102970, 102994, 102995, 102999, 103002, 103005 thru 103009, 103011, 103013 thru 103018, 103020, 103021, 103023, 103025 thru 103028
- SPEC. 3
  102298 thru 102300, 102324 thru 102328, 102358, 102359, 102364, 102366, 102367, 102426, 102429, 102430, 102432, 102441, 102442, 102445, 102447, 102448, 102449, 102450, 102453, 102455, 102458 thru 102460, 102473 thru 102476, 102483 thru 102491, 102508, 102509, 102536, 102578 thru 102586, 102611 thru 102618, 102633, 102634, 102636 thru 102643, 102665 thru 102667, 102672 thru 102674, 102708, 102710, 102711, 102713, 102756 thru 102760, 102769 thru 102773, 102786 thru 102791, 102793, 102795, 102797, 102799, 102821, 102826, 102828 thru 102835, 102843, 102871, 102880, 102990, 102996, 103001, 103003, 103004, 103010, 103019, 103022, 103024, 103030
- SPEC. 4 102435 thru 102439, 102498 thru 102502, 102529, 102540, 102545, 102548 thru 102554, 102570 thru 102577, 102587, 102588, 102884, 102885, 102902 thru 102911, 102913, 102915 thru 102918

#### 10-470-U

SPEC. 1 115001 thru 115738, 115740 thru 115742, 115744 thru 115792, 115808 thru 115836, 115839 thru 115847, 115854 thru 115864, 115866 thru 115873, 115875, 115884, 115886, 115888, 115890 thru 115907, 115909 thru 115912, 115915, 115916, 115918 thru 115929, 115933 thru 115936

#### IO-470-V

- SPEC. 1 147001 thru 147099, 147101 thru 147360, 147362 thru 147493, 147497, 147498, 147511, 147519, 147562 thru 147564, 147846, 147851, 147937, 147938, 147948, 147949, 147951, 147953, 147956, 147971, 147977, 148906
- SPEC. 2 147494 thru 147496, 147499 thru 147510, 147512 thru 147518, 147520 thru 147561, 147565 thru 147706, 147708 thru 147845, 147847 thru 147850, 147852 thru 147936, 147939 thru 147947, 147950, 147952, 147964, 147955, 147957 thru 147970, 147972 thru 147976, 147978 thru 147987, 147990 thru 148001, 148877, 148898
- SPEC. 6 149235, 149301, 149395, 149579
- SPEC. 8 147989, 148002 thru 148093, 148095 thru 148386, 148391 thru 148395, 148398 thru 148403, 148406, 148406, 148417, 148420 thru 148422, 148427 thru 148433, 148468, 148511, 148512
- SPEC. 9 148900 thru 148905, 148907 thru 148974, 148976 thru 148997, 148999 thru 149079, 149083 thru 149118, 149121 thru 149234, 149236 thru 149299, 149302 thru 149328, 149331 thru 149359, 149362 thru 149394, 149397 thru 149445, 149447 thru 149450, 149452 thru 149501, 149503 thru 149555, 149558 thru 149578, 149580 thru 149647
- SPEC. 10 148975, 148998, 149080 thru 149082, 149119, 149120, 149300, 149329, 149330, 149360, 149361, 149396, 149446, 149451, 149502, 149556, 149557

# SECTION II GROUP ASSEMBLY PARTS LIST

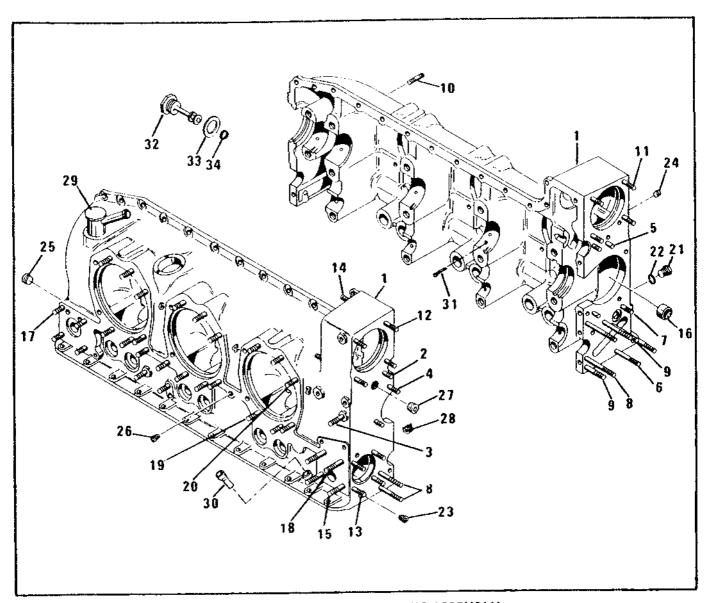


FIGURE 1 - CRANKCASE STUDDING ASSEMBLY MODELS 0-470-A,B,E,G,J,K,L,M,P,R,S,U

FIG.	PART								T	C	lU/	/N	T 17	ΓΥ	P	EF	₹	AS	SSE	M	BL\	Υ	
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-1	642183A1	<b>©</b>	Crankcase (	Studding As	sembly			 	.	1		ļ	ון	լդլ		Ì	ļ	-	- [			1	
-1	642182A1	②	Crankcase S	Studding As	sembly			 	•	١.	İ	Ì		ļ	1		}			1	ĺ		1
-1	642193A1	②	Crankcase (	Studding As	sembly		. <b></b>	 	٠.	-	ļ	1	ļ	1		1	İ				ŀ		ĺ
-1	642159A1	0	Crankcase :	Studding As	ssembly			 	٠.	ļ							- }	1		. }			
-1	642194A1		Crankcase :							ı	١.		1		١_	ĺ		_	1	1	-		-
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-2	401870		. Stud, 1/4							12	?				ł	2		١	ŀ	ļ	Į	1	
-3	402042	†	. Stud, 5/1	6 x 1 Inch	Long .			 	]	1	1	1			1		1			Į	ļ	İ	
-3	402048	†	. Stud, 5/1	6 x 3-11/1	6 Inch L	ong .		 								1				_ [		Ì	
-4	401885	†	. Stud, 5/1 . Stud, 5/1	6 x 1-5/16	Inch Lo	ng .		 	[	2   2	2 2	2	2	2	2	2	2	2	2	2		-	1
-5	531548	•	. Dowel					 	[	2	2 2	2	2	2	2	2	2	2	2	2		İ	
-6	402129	†	. Stud, 1/4	x 2-3/4 In	ch Long		<b>.</b> .	 	[	2   2	2   2	2	2	12	2	2	2	2	2	2	ł	ŀ	

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#### NOTES:

- ① Crankcase for models 0-470-A-B-E-J can be supplied with 1/2" thru bolts by ordering 625566A1 crankcase kit if engine model is specified on your order.
- 2 These are Phase 3 style crankcases. For earlier style, Phase 1 & 2, see Service Bulletin M78-9.
- 3 For early model 0-470-G engines not equipped with oil transfer collars, order 628783A1 crankcase and collar kit.
- Service in accordance with Service Bulletin M72-24.

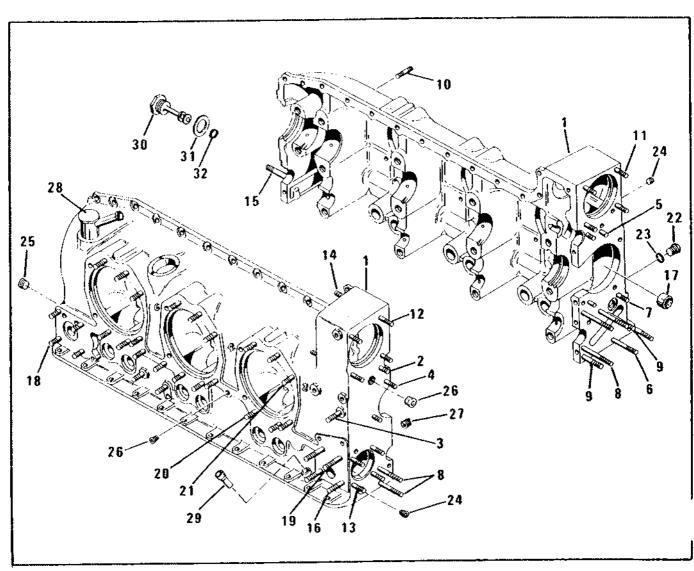


FIGURE 2 - CRANKCASE STUDDING ASSEMBLY MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

FIG.	PART			Q	U/	١N	TI	ΤY	F	E!	₹		_		181			
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	Н	1	K	L	М	N	P	R	<u>s</u>	ᆘ	ᅬ
2-1	642178A1	① Crankcase Studding Assembly	1	ŀ			1			1							Ì	-
-1	642172A1	① Crankcase Studding Assembly		1	1	]	1	1						1 1			ļ	- 1
-1	642167A1	① Crankcase Studding Assembly	İ		1	ļ	ļ								1	1		
-1	642173A1	① Crankcase Studding Assembly	ļ	1		1			İ	}		!						- 1
-1	642179A1	① Crankcase Studding Assembly		ļ		1		1		Į			1			ĺ		ı
-1	642189A1	① Crankcase Studding Assembly		1	1		İ		1	ĺ							, ,	ŀ
-1	642177A1	① Crankcase Studding Assembly			ŀ		ŀ	l		1	1	j		1				
-1	642166A1	① Crankcase Studding Assembly		ì	ļ	1	ŀ	l	1			1	Ì					ŀ
-1	629887	Crankcase Studding Assembly	1	l			1	ļ		Į		ļ	ļ	1			i l	
-1	642169A1	① Crankcase Studding Assembly		1			1	İ		}		Ì		l			1	
-1	642170A1	① Crankcase Studding Assembly		1				ļ		1	Į		1					וו
-2	401963	t . Stud, 1/4 x 1 Inch Long	2				2	2	2	2		2	2					
-2	401870	† . Stud, 1/4 x 1-1/8 Inch Long		2	2	1		1			2	İ	ı	2	2	2	2	2
-3	402042	t . Stud, 5/16 x 1 Inch Long	1			1	1	1	1	1	1		١.	١.				
-3	401881	1 . Stud, 5/16 x 1-1/8 Inch Long		1	1	ļ		ļ						[1	1	1		
-3	402151	1 . Stud, 5/16 x 1-1/4 Inch Long		1				1				1	1			-	ĺĺ	ı
-4	401885	† . Stud, 5/16 x 1-5/16 Inch Long	2	2	12	2	2	2	2	2	2	2	2	2	12	2	i I	.

2-4

FIG.	PART	T		~ <del>_</del>									Τ	a	U/	N/	Ţľ	ΤY	. p	EF		Α.	SSE	EM	 !B!	Y		٦
INDEX	NUMBER	1	12345	5	DE:	SCRI	PTIC	ON					c										N					ᆔ
1	<del></del>					<del></del>	<u>.</u>						· ;—										2					
2:-5	531548		Dowel .									• •	12	2	2	2	2	5	ز د	2	31	۱	3	4	3	4	2	2
-6		t.	Stud, 1,	/4 x	2-3/4	Inch I	Long				• • •	• •	12	2	2	4	4	4	4	4	4	4	2	4	41	41	2	<u> </u>
٠7	401852	† .	Stud, 1,	/4 x	1-13/3	32 Inc	h Loi	ng ,		•	• • •	• •	'	֓֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֡֓֓֓֡֓֡	' '	'	,	' {	'[	1	'	'[	١,	,	•	•	'	'
-7	401893	t.	Stud, 1,	/4 x	1-1/4	inch i	Long		• • •		• • •	• •	[	ے	اءا	ا ۽	_	_	_	_	_	٤	E			_	5	ا ۽
-8	402056	t.	Stud, 1,	/4 x	3-9/16	inch	Fou	9 .	• • •		• • •	• •	13	3	2	3	2	3	3	3	2	2	3	3	2	2	2	3
∙9	401886	† .	Stud, 1,	/4 x	3-3/16	5 Inch	Lon	g .	• • •	• • •	•		1,5	۲	2	2	2	4	2	2	4	4	3	4	2	٤.	4	۲
-10	401841	† ,	Stud, 1	/4 x	2-3/32	Z Inch	Len	g .		• • •	• • •		13		3	3	3	3	3	3	- 1	ı	5 2 3 2	3	3	3	- [	
-10	401806	† .	Stud, 1	/4 x	1-1/4	Inch	Long			• • •	• •		'	5	4		۷	4	۷	4	5	ا ء	4		4	4	_	٠,
-10	401808	† .	Stud, 1	/4 x	1-5/10	i Inch	Lon	g			• •	•		12	_		c	e l	٥		2	٠ ا	6	اہ	اہ	۱	5	٦
-11	401885	t.	Stud, 5	/16 >	x 1-5/]	16 Inc	h Lo	ng .	• • •		• •	• • •	ļ	P	9	פ	0	D	0	וים			١٥	וס	D	미	P	۱۹
-11		t.	Stud, 5	/16 >	x 2-7/	16 Inc	h Lo	ng		• • •	• •		1,	١,	١,	_	•	2	,	ړ		2	2		2	- 1		۱
<b>√12</b>	401965	† .	Stud, 3	/8 x	1.13/3	32 Inc	h Lo	ng .		• • •	• •	• • •	14	14	<u>۲</u>	4	۷.	4	۲	4	4	4					2	4
-12	402153		Stud, 3											ı.					ا		٦			2		2		؍
-13	402151		Stud, 5										4	4	[4	4	4	4	4	4	4	4	il		4	4	4	Z
-13	401814		Stud, 5										١.	١.		١. ا		.						4	_	.	. [	
-14	401885		Stud, 5										14	4	4	4	4	4	4	4	4 [	4	4	•	4	4	4	4
-15	402162		Stud, 7													il			Ì	]	ļ			2		ĺ		
-16	401861		Stud, 3											8	١.,	ا			Ì	Į				4			7	
-16	402066	t.	Stud, 3	3/8 x	1-7/8	Inch	Long							7	116	16			ļ	-	14	16			16	16	8	8
-16	401798	<b>†</b> .	Stud, 3	3/8 x	2 Incl	h Lon	g.					·			L						"						. 1	_
-17	537721		Bearing	ı, Ne	edle								- 1										1					
-18	401899	t.	Stud, 5	/16	x 2 In	ch Lo	ng .							4	4	4	4	4		4	4	4	4	۱ ـ ا	4	4.	4	4
-18	401814	t.	Stud, 5	/16	x 1-7/	8 Inch	) Lon	ìg		٠.		<i>.</i>		1	İ									4		j	ıĺ	
-18	401809	1.	Stud, 5	/16	x 1-3/	8 Inch	i Lon	19								li			4			i						
-19	401977	† .	Stud, 3	3/8 x	2-3/32	2 inch	Long	3						]							1	ŀ						
-19	401861	t.	Stud. 3	3/8 x	1-25/	32 Inc	ch Lo	ong							١.								Ì	1				
-20	639418-2	②.	Stud, 7	//16	x 1.19	)/32 lr	nch L	.ong	, Cla	ass 3	١		112	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
-20	631867 ②	<b>†</b> .	Stud. 7	7/16	x 1-19	3/32 lr	ոշի Լ	ong					12										12					
-21	639418-1	②.	Stud, 7	//16	x 2-1/	16 Inc	ch Lo	ong ,	Cla	ss 3													24					
-21	538404 ②	t.	Stud, 7	7/16	x 2-1/	16 Int	th Lo	ong					24										24					
-22	532432		Plug, 5	/8 -	18								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23	AN900-10	& .	Gasket	, An	nular								ji	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24	629518-1H		. Plug, 1	/8 N	PT								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-25	2025		. Plug, 3	/B N	PT								4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-26	629518-3H		Plug, 5, Gasket, Plug, 1, Plug, 3 Plug, 3 Insert Insert	/8 N	PT								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-27	MS122162		Insert										4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-27	MS122122		Insert										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28	537505		. Breath	er As	ssembl	y, Cra	nkcas	se					-}1	1'	١.	, • I	1	1	1	1	1	•	1	1	1	1	1	1
-29	537297		. Guide,	Oil	Gauge	Rod							1	1	1	1					$ $	1		1			1	1
-30	626334	Į	Plug, Spe	ecial										1		Į					1	. !				ŀ		1
-31	625996	(	Gasket, S	Speci	ial								1	1							1					Ì	1	1
-32	AN123866	9	Seal, O-F	Ring		<i></i> .							-	1		ļ					1						1	1

#### NOTES:

- ① These are Phase 3 style crankcases. For earlier style, Phase 1 & 2, see Service Bulletin M78-9.
- 3 Service in accordance with Service Bulletin M72-24.

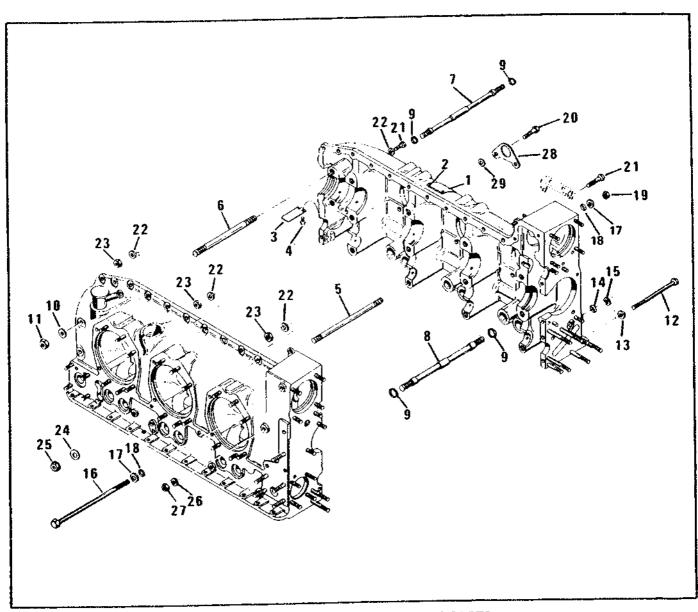


FIGURE 3 - CRANKCASE ATTACHING PARTS MODELS 0-470-A,B,E,G,J,K,L,M,P,R,S,U

FIG.	PART				UΑ						_		SSI	EM	BL	Y	
INDEX	NUMBER	12345 DESCRIPTION	Ā	B	Ε	G	J	K	L	М	P	R	S	U	I	$\Box$	_
3-1	* * <del>*</del>	Plate, Identification	1	1	1	1	1	1	1	1	1	1	1	1			
		ATTACHING PARTS		1	ĺ										- }	Ì	
-2	24764		6	6	6	6	6	6	6	6	6	6	6	6		1	
-2	24704	* * * *		-		~			( )	-	[						
-3	642250 <b>O</b>	Clip, Spring				1					1						
•	•	ATTACHING PARTS	į														
-4	AN500A10-4	Screw	1	Ì		2				Ì	2	İ					
**	A14300A10 4	4 4 4 4			}	-						Ì	ĺ	İ	. }	-	
-5	538944-10.50	Bolt, Crankcase Through	4	4	4	4	4	4	4	4	4	4	4	4		-	
-6	538944-8.88	Bolt, Crankcase Through	2	2	2	2	2	2	2	2	2		2			-	
-7	641930-9.81	Bolt, Crankcase Through	1	1	1	1	1	1	1	1	1		1 2	1			
-8	641931-10.75	Bolt, Crankcase Through	7	i '	7	7		7	7		7	7	1 1	7			
.9	MS29513-010	O-Ring	16		16		16	16		16	16	16	16	16			
-10	25171	Spacer, Crankcase Through Bolt						4			4	4		4			
-11	531001	Nut, Flanged			4			4			4	4	1 1	4	ıl		
-12	627443	Bost		ι	4		4			4				5			
-13	2473	Washer, Plain, 5/16 Inch				3				3			4 ° I	4			
-14		O-Ring			1		ĭ		1			Ĭ	1	l ' !			
-15	539374	Washer	1.	1 '	1	1	ĺ		1	1	1	1	1	1 1			
-16	535810	Bolt	1		1	1	li			1	1	1					
-16	630693-10.44	Bolt	ľ				1	ĺ	•			1	1	1		}	
-17	24239	Washer, Plain	2	2	2	2	2	2	2	2	2	2	2	2			
·18		O-Ring	2	2	2	2	2	2	2	2	2	2		2			
-19	2441	Nut, Plain Hex, 3/8	1	1	1	1	1	1	1	Ī	1	1	2	2			
20		Bolt	2					2			2		2			ļ	į
-20		Bolt	2	1		1				1			}			j	į
-21		Bolt	111	11									11			Ì	ĺ
-21		Bolt	2	2	2	2	2	2	2	2	2	2	2	2			
-21		Bolt	111		10	110	10	10	10	10	111	10	10	11		- 1	ĺ
-22	2473	Washer, Flat											24			ļ	
-23	2439	Nut, Plain Hex											13	13		ļ	
-24	25171	Spacer	8		8	8				8				8			ĺ
·25	531001	Nut, Flanged, 7/17	8	8	8	8	8	8				8	8	8		١	ĺ
·26	538989	Washer, Plain	4	4	4	4	4	3	4	4		4		4	ļĺ		l
-27	634511	Nut, Plain	4	4	4	4	4	3	4	4	4			4			
-28	538650	Lifting Eye	1	1	1	1						1	1	1			
·29	538949	Spacer, Crankcase-to-Lifting Eye	2	2	2	2	2	12	2	2	2	2	2	2		İ	l

- \*\*\* Order Identification Plate in accordance with Service Bulletin M75-5.
- Early crankcase design uses PN 626990. Spring Clip 642250 and 626990 are not interchangeable. See Service Bulletin M78-3.
- ① These bolts are used and supplied with Phase 3 crankcases. See Service Bulletin M78-9.
- 3 These bolts are used with Phase 1 & 2 crankcases. See Service Bulletin M78-9.

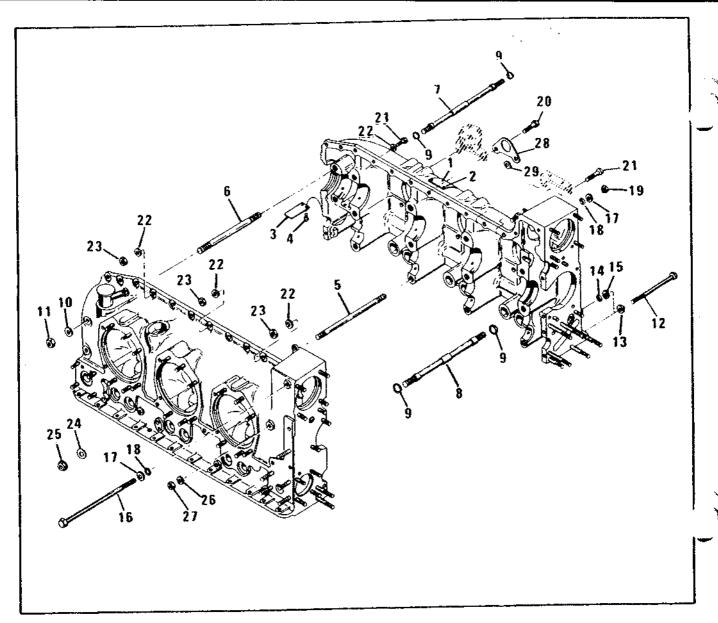


FIGURE 4 - CRANKCASE ATTACHING PARTS MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

FIG.	PART				- :-								SS					
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	Н	J	K	L	M	N	P	R	S	U	v
4-1	* * *	Plate, Identification	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		ATTACHING PARTS			ĺ													
-2	24764	Screw, Drive	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
- 2	24701	* * * *								Ì	ļ							ı
<b>-3</b>	642250 ①	Clip, Spring	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		ATTACHING PARTS						ļ		ļ		ļ						
-4	AN500A10-4	Screw	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		* * *					<b>.</b>			] .	١.							
-5	538944-10.50	Bolt, Crankcase Through	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-6	538944-8.88	Bolt, Crankcase Through	2	2	2	2	2	2	2	2	2	12	2	Z	[2]	2	2	
-7	641930-9.81	Bolt, Crankcase Through	1										1				1	1
-8	641931-10.75	Bolt, Crankcase Through	7			7				7				7		7		_/
-9	MS29513-010	O may	•								16	116	16	16	16		16	
-10	25171	Spacer, Crankcase Through Bolt	4		4			4				4	4		4	4	4	
-11	531001	Nut, Flanged				4		4					•		4		1 1	
-12	627433	Bolt, Drilled Hex Head				4		4		4				4				
-13	2473	Washer, Plain	3			3				3	3	3	3	3	3	3	3	4
-14	25328 &	0-Ring			1			1		1		1		!	!	!		!
-15	539374	Washer, Plain	יו	1	1	١.	1	1	1	<b>'</b> '	1	1	1	<b>,</b>	1			ŀ
-15	401506	Washer					١.	١.		١.		١.		} .	١,١			
-16	535810	Bolt	[]	1	]]	1											1	
-17	24239	Washer, Plain	2	2	2	2	2	2	2	2	2	2	12				2	
-18	AN123862 &	0.Ring	2	2	2	2	2	2	2	2	2	12	2	1	2	2	2	2
-19	2441	Nut, Plain Hex, 3/8 Inch	1			1				2	₹ .	,				ĺ	1	1
-20		Bolt	2		2			2		ł.	2	2	2		[2]	2		Z
-20	AN5-13A 🗿	Bolt	1		1	1 -	1 -	1		1 -		1		1		!		1
-21	AN5-14A 2		1		1	1		1				1	1			ļ		1
-21	AN5-14A 3	Bolt	2		2			2			2			2		2	Z	2
		Bolt	9	9	9	9	9	9	9	9	9				9		9	-
	AN5-12A 3	Bolt	9	7									9				9	
	AN5-12A	Bolt	1			1								1	1 1	, .	1	٠.
-22	2473	11031161, 1 101	24	24	24	24	24	24	24	24	24	24	24	<b>Z</b> 4	24	24	24	Z4
-23	2439	Mut Diain Hay													1		14	
-24	25171	Spacer	8	8	8	8	8	8	8	8	8	۱,	8				8	
-25	531001	Nut, Flanged	8	8	8	8	8	8	8	8	8	8	8	8	8	B	8	ď
-26	538989	Washer, Plain	4		4	4	4	4	4		4		4				5	
.27	634511	Nut, Plain	4		2	4					4		ſ		4	2	5	ι.
-28	538650	Lifting, Eve	1		1		1		1	Ι.	1	[1		•			ŧ I	
-29	538949	Spacer, Crankcase-to-Lifting Eye	1	[1	1	1	1	1	1	1	į 1	[ ]	1	1	1	1	[1]	

- \*\*\* Order Identification Plate in accordance with Service Bulletin M75-5.
- Early crankcase design uses P/N 626990. Spring clip 626990 and 642250 are not interchangeable. See Service Bulletin M78-3.
- ① These bolts are used and supplied with Phase 3 style crankcases. See Service Bulletin M78-9.
- 3 These bolts are used with Phase 1 & 2 style crankcases. See Service Bulletin M78-9.

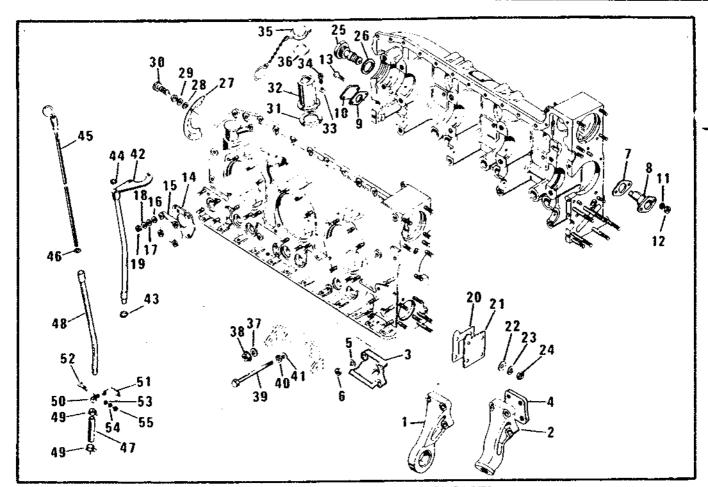


FIGURE 5 - CRANKCASE ASSOCIATED PARTS MODELS 0-470-A,B,E,G,J,K,L,M,P.R,S,U

FIG.	PART	T			-	Q	UA	١N	TI	Τ¥	<u>_</u> 1	PEI	R	A	SS	EM	BL	Υ_	-	
INDEX	NUMBER		12345	DESCRIPTION	Ā	В	E	G	J	K	L	M	<u>P</u>	R	S	U		l	$\perp$	
5-1	534470	0	Bracket, Engine	Mounting	4	4	4		4											İ
.2	539518	①		Mounting		}	ŀ			4	4	}		4	3	3				İ
·2 -3	628257	0		Mounting, Cylinder No. 2		ļ			İ		l				1	1				l
-3	539914	0		Mounting								4								
			Д	ATTACHING PARTS				ļ	Ì		}						-			
-4	632357		Spacer		-			}				ļ	ļ	1	1	1		1		
-5	539058					3 16	16	;	16	16	16	16	}	16	16	16		-		
-6	2441					16			16	16	16	16	Į	16	16	16				
			•	* * * *			ļ				ì	ļ	i					1	'	
·7	534740	&	Gasket		1		1	1	1	1	1	1	1	1	1	1				
-8	534728			Support		1	1	1	1	1	1	1	1	1	1	1	ŀ			
-9	629202	0		ole Cover		1					1	1		1	1	1		}		l
-10	642914	0	Cover, Cam Hol	le	1	1	1	1	1	1	1	3		1	1	1				
			Д	ATTACHING PARTS	- [			ļ				١				l l	-			
-11	MS35338-44				4	4	4	4	4	4	4	4	4	4	4	4				
-12	2437				12	2	2	2	2	2	2	2	2	2	2	2	ļ			
-13	626487	0	Screw		2	2	2	2	2	2	2	2		2	2	2	Ì	ļ		
				* * * *	ì		ŀ				-					İΙ	ł			
-14	641651	&	Gasket		1	1	1	1	1	1	1	ĺ1	1	1	1	ļ 1	ļ	ļ		İ
-15	639997			r Pad		1	1	1	1	1	1	1	1	1	1	1				Ĺ
			A	ATTACHING PARTS					-	ľ							1	į	ı	ķ
-16	22535		Washer 5/16 Inc	ch	8	R	8	8	R	8	R	8	8	8	8	8		ĺ		,
-17	2473		Wacher Flat	ch	4	I,	1	Ĭ	1	Ĭ	4	Ĭ	1	Ĭ	ſï.	4			-	f

FIG. PART QUANTITY	PER			EMBLY
INDEX         NUMBER         1 2 3 4 5         DESCRIPTION         A B E G J K I           5-18         MS35338-45         Washer, Lock         4 4 4 4 4 4 4 4	_ M		ĭ S	
-19 2439 Nut, Plain	4 4	4 4 4 4	4	4
20 534941 & Gasket			1	
-21 534942 Cover, Fuel Pump Pad		1	1	1
ATTACHING PARTS				
-22 2473 Washer, Flat			4	
-23 MS335338-45 Washer, Lock		4	4	
-24 2439 Nut, Plain	<b>'</b>	4	4	*
-25 534445 Temperature Control Valve	1 1		Ì	
-25 639304 Temperature Control Valve				
-26 625966 Gasket   1 1 1 1 1 1	111			1
EQ6491 Kit, Oil Seal Retainer op op op op op op op op	pop			
-27 641361 Retainer, Oil Seat	2  2	2 2	!	
ATTACHING PARTS	$\lfloor \rfloor$			
-28 AN960-10L . Washer, Flat	1 4	4 4		
	4 4 1	4 4		
-30 MS20074-03-03 . Bolt	4 4	4 4	'	
-31 538804 & Gasket 1   1   1   1   1   1   1   1   1   1				1
-32 538773 Neck Assembly, Oil Filler	3	1	1	1
538801 Neck Assembly, Oil Filler	1	1		<b>,                                    </b>
ATTACHING PARTS	1 1			
-33 MS35338-44 Washer, Lock			3	3
-34 AN500-416-8 Screw	3   3	3 :	3   3	3
-35 640620-8 Cap Assembly, Oil Filler	3 1	1	1 1	11
-35 640620-8 Cap Assembly, Oil Filler	' '	$ \cdot $	1.	1
-36 635134 Gasket	1 1	1	1 1	11
-37 2794 Washer 17/32 11 1 1 1 1 1 1 1	1 1	1		
-38 538969 Nut Flanged 1 1 1 1 1 1 1	1 1	1	1	
-39 627433 Bolt, 5/16 x 5-1/4 Inch Long				
-40 MS35333-41 Washer Lock	1 1	1	1	
-41 2473 Washer, Plain	1   1	11	1	1
-42 625213 Tube Assembly, Oil Gauge Rod				
-43 AN123865 & O-Ring	, ,		, ,	
-44 537299 Ring, Oil Gauge Lock			1 1	1
nod Assembly, on dadge			1   1 1   1	
10 /mt/2000 d. 0 ming	' '	1 1	111	
-47 631928 Hose	}		111	
-48 632151 Housing	}		2 2	1 1 1 1
-49 36151R Clamp				
-51 632149 Bracket			1 1	1 1 1 1 1
ATTACHING PARTS				
-52 22904 Screw		1	1 1	1 1 1 1 1
-53 2471 Washer, Plain	}	2 1	- 1	
-54 22910 Washer, Lock			1   1	
-55 13XX1896 Net, No. 10	ļ	1 1	1   1	111   1

<sup>\*\*\*</sup> Order number stamped on rod. If none supply engine model, name of airplane and year manufactured.

<sup>1</sup> See Section VI for Specification Applications.

② These parts are found on Phase 3 crankcases. See Service Bulletin M78-9.

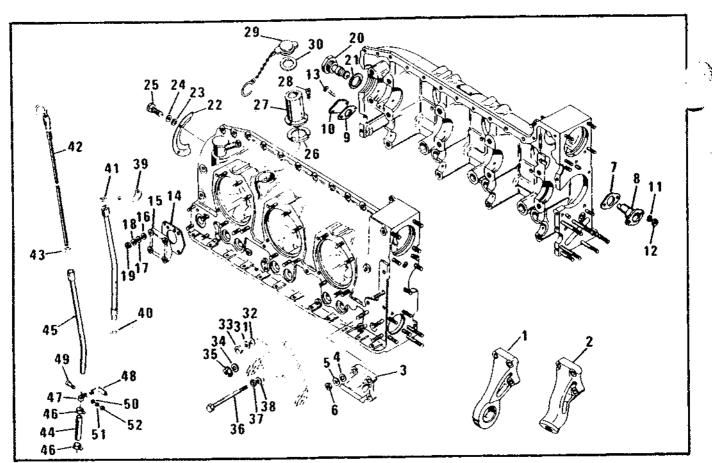


FIGURE 6 - CRANKCASE ASSOCIATED PARTS MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

																			_		_			
FIG.	PART									Q	UΑ	N	Γŀ	Υ	P	E	R	A	SSI	ΕN	BI	_Y	-	
INDEX	NUMBER		1234	5	DESCRI	IPTION			C	D	E	F	G	H	J	K	L	M	N	Ρ	R	s	<u>u</u>	Σ]
6-1	534470	0	Bracket,	Engine	Mounting	<b></b>			ł			4			į					2				١
-2	539518				Mounting						4		4	•			4	3			4	4	Į	
-2	628257				Mounting										i	ĺ		1					Į	
-3	539914				Mounting						4												3	3
.3	628008				Mounting																		1	1
				_	ATT	ACHING	PARTS																i	
-4	539058	١	Washer, F	Plain .						16	16	16	16			ļ	16	16	1	8	16	16	16	16
.5	MS35338-46		-						1	16	16	16	16				16	16						16 l 🗸
-6	2441									16	16	16	16				16	16		8	16	16	16	Iť
			·			* * *	*		-								]							Ì"
-7	534740	&	Gasket .						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8	534728	i	Pin Idler	Gear S	Support				11	11	11	1	1	1	1	3	1	1	1	1	1 !	1	1	1
.9	629202	<b>②</b> (	Gasket, (	Cam Ho	ile Cover .			<i>.</i>	1)	11	}	11	1	[] }	1	1	1	1	1 .	1	1	1	1	1
-10	642914	<b>②</b>	Cover, Ca	am Hol	e				1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1
						ACHING																		
-11	MS35338-44	١	Washer, I	Lock .					4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-12	2437		Mut						12	12	12	12	2	2	2	2	2	2	2	2	2	2	2	2
-13	626487	② 3	Screw		· · · · · · · · ·				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
						* * *	*		١	Ì	j			İ			ĺ	ļ	ļ					
-14	641651	& (	Gasket .				<b></b>	<i></i>	1	1	1	1	1	1	1	1	1	1	1	1	1	ì	1	1 ]
-15	639997	ı	Cover						1	1	1	1	1	1	1	1	1	1	1	1	]1	1	1	)
						CACHING										Ì			}				1	``أ`
-16	22535	١	Washer, 5	5/16 .					4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

	<u> </u>	Т		Т					_									—	
FIG.	PART	1			Q	U/	ΔN	T	ΤY	/ !	PΕ	R	Α	SS	E١	ΛB	LY	,	
INDEX	NUMBER	ı	12345 DESCRIPTION	C	lD	ΙĒ	TF	G	H	IJ	ſκ	ì						U	ſσ
6-17	2473	_1_		1	4	1-	1	Ĭ	 	1		4						† <del></del>	<del>-</del>
			Washer, Flat												4		4		4
-18	MS35338-45		Washer, Lock	14	14	4	4	4	4	14	4	4	4	4	4	4	4	4	4
-19	2439		Nut	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
			* * * *	1	1				ļ				l	Ì					
-20	534445		Temperature Control Vaive	1	ļ				ļ	}							1	'	
-20	639304		Temperature Control Valve	1	1	1	1	1	1	1	1	ļ		1	1	1			1 I
-21	625966		. Gasket	1	-	1	1	1	1	1	1		l	1	1	1			, J
	EQ6491		Kit, Oil Seal Retainer	bo	on	lon	lon	00	len	lon	lon	on	lon	lon	on	on	on	on	on
-22	641361		. Retainer, Oil Seal	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
				ľ	-		-	-	-	-	-		ľ		-	-		۲	Ĺ
	434000 404		ATTACHING PARTS	Ι.	}.	١.	}_		١.			١.		١.					i 1
-23	AN960-10L		. Washer, Flat	4	4	4	4	4	4	4	4							4	
-24	22910		. Washer, Lock	4	4		4					4			4	4		4	4
-25	MS20074-03-03	}	. Bolt	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
			* * *	ļ	l			ł	ļ			1			ŀ	İ			
-26	538804	&	Gasket	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27	538773		Neck Assembly, Oil Filler		İ		1	-	1	ļ	ł		•		ŀ				
	538801		Neck Assembly, Oil Filler		1	1		1	1			l	1		1	1	1	1	1
	627166		Neck Assembly, Oil Filler	1				İ	ĺ	1	1	1		1	ľ	•			
											ľ	ľ	ĺ	ľ	İ		İ		
20	A N/COO 440 O		ATTACHING PARTS	_	Ĺ				١,	1		L	Ĺ	Ĺ				ا دا	
-28	AN500-416-8			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
20	040000 5		* * * *	L			ĺ			l.		ĺ		_					
-29	640620-5		Cap Assembly, Oil Filler	1		[_	l.			ון	1			1	١.				
-29	640620-8		Cap Assembly, Oil Filler			1		1			1		1	1	1			1	
-30	635134		. Gasket		1			1				1			1		ι Ι	1	1
-31	MS35338-45		Washer, Lock		1			1				1			t		1		
-32	2473		Washer, 11/32	1	1			1				1		1	1	1	1		1
-33	2439		Nut, 5/16	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-34	2794		Washer, 17/32	1	1	1	[	1					1	ĺ	1	1	1		1
-35	538969		Nut, Flanged, 1/2	1		1	ļ	1	İ			1	1	ļ	1	1	1		1
-36	627433		Bolt	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1 L
-37	MS35338-45		Washer Lock	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-38	2473		Washer, Plain	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-39	625213		Tube Assembly, Oil Gauge Rod Guide			ł		Į	1							i			
-39	627164		Tube Assembly, Oil Gauge Rod Guide	1			Ì.			1 1	1			1					ı
-39	628543		Tube Assembly, Oil Gauge Rod Guide		İ			ļ ·				1:							
-40		ጼ	O-Ring	1		Ì			1	1	1	i		1					
-41	537299	•		li	i	1	1	1					1	' '	1	1	1	1	,
- <b>42</b>	* * *		Rod Assembly, Oil Gauge	li														1	
-43	AN123860	Q.	O-Ring												1			1	1
7.0			O-Ring	Ι'	] '	'	'	'		<b>'</b>	i • ·	•	•			'	1	• ]	ı
-44	631928	Ю	<del>_</del>		{		]												
			Hose	l						}				١.			;		
-45 46	631915		Housing, Extension		ļ												,		
-46	36151R		Clamp		}												2		
-47	631266-1		Clamp							}				'				]	
-48	631275-1		Bracket		ŀ												<b>'  </b>		į
			ATTACHING PARTS													١			Ì
-49	22904		Screw														1		
-50	2471		Washer, Plain	[	Į												1		
-51	22910		Washer, Lock												}		1		
-52	13XX1896		Nut, No. 10		1												1		
NOTES	٠.			ļ	i		ŀ		-			١ ;	1		<b> </b>	Ì	ł	· I	ī

<sup>\*\*\*</sup> Order number stamped on rod. If none, supply engine model, name of airplane and year manufactured.

① See Section VI for Specification Applications.

<sup>1</sup> These parts are found on Phase 3 crankcases. See Service Bulletin M78-9.

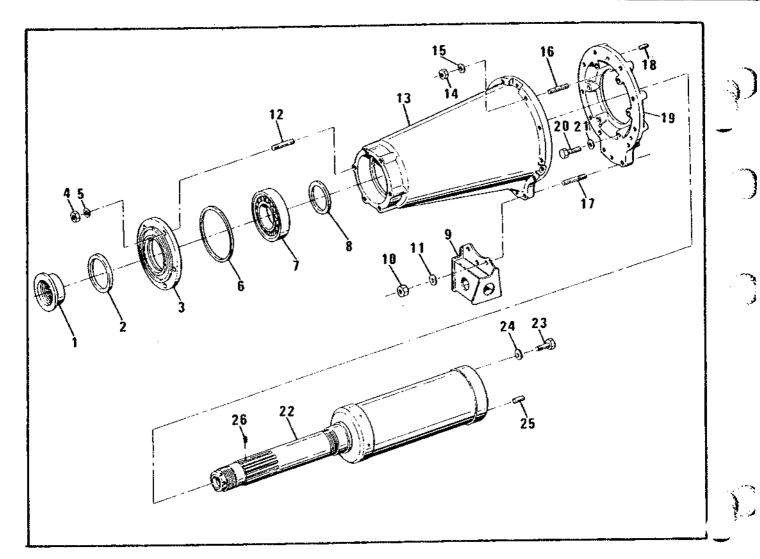


FIGURE 7 - CRANKCASE AND CRANKSHAFT EXTENSION ASSEMBLIES MODEL 10-470-P

	FIG.	PART	T			Q	U/	١N	TI	ΤY	' F	EF	₹	AS	 SSE	M	BL	Y		٦
	INDEX	NUMBER		12345 DESCRIPTION	C	Đ	E	F	G	H	J	Κ		M	N	P	R	s [	<u>u</u>	⊽
_	7-1 -2 -3	629885 532873	1	Nut, Bearing Retaining		i										1 1				
	-3	531141	Ψ	Cover, Extension Housing												•				
	-4 -5	2441 2274		Nut, Plain, Hex		       										6				
	-6 -7 -8 -9	AN6238-26 © 538135 538136 629675	0	O-Ring												1 1 1				
	-10	2443		ATTACHING PARTS Nut, Plain, Hex												3				
	-11	25171		Washer, Plain												3	-			
	-12 -13	628245 401861 No Number	i	Adapter and Housing Assembly, Prop. Ext											- 1	1 6 18				
	·14 -15	2441 401507		ATTACHING PARTS  Nut, Hex, 3/8												B				
_	-16 -17 -18 -19	402066 401830 532683 No Number	† ①	* * * * *  Stud, 3/8 x 1-7/8 Inch Long												8 1 3				
	-20 -21	539961 401507		ATTACHING PARTS Bolt, 3/8 x 1-3/4 Inch Long												6				
	-22	538127	0	Extension, Crankshaft Assembly												1		ļ		
	-23 -24	AN78-10 AN960-816L		Bolt, Drilled Hex Head	; ;											6		~~~		
	-25 -26	531494 22366		. Dowel											1	2				
_	NOTE	: No tonger av	ailab	ole.																

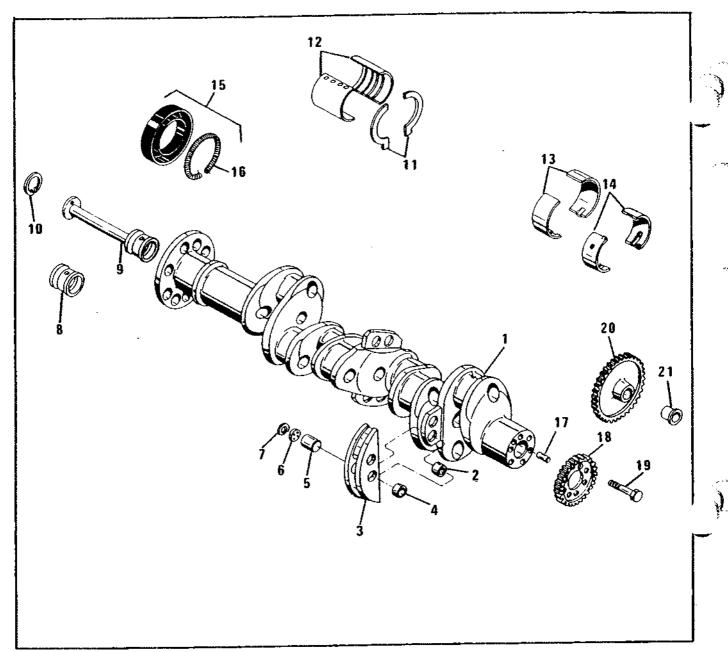


FIGURE 8 - CRANKSHAFT ASSEMBLY MODELS 0-470-A,B,E,G,J,K,L,M,P,R,S,U

FIG.	PART	$\top$										T	Q	U/	\N	T!	ΓY	F	EF	— ₹	A	SS	ΕN	1BL	Υ.	
INDEX	NUMBER		1234	5	DE	SCF	RIPT	ION				A	В	Ε	Ğ	J	K	Ĺ	M.	Р	R	s	U		$\Box$	T
L	<u> </u>	<del></del>										1		1	П	1			П	Г	1		П		_	_
8-1		$\approx$	Cranksha	rt and	Dau	per /	4ssem	idiy .	• • • •			1	1			•					•				}	ļ
- 1			Cranksha										'		1										{	ĺ
.1			Cranksha												<b>'</b>		1	1	,			İ	}			
-1	* ·		Cranksha											}	}		,	•	'	1						-
-1			Cranksha											Ì						<b>'</b>			1			
-1	641905		Cranksha	ft and	Dan	nper /	Assem	ibły .	• • • •			١,	,	4	۱,	Æ	8	0		,	4	4				
-2	350998	1	. Bushing . Counte	i, Crar	nksha	art Da	amper		• • • •			14	3	2	4	7	4	0 /	8 4	4	2	2	4		İ	
-3	639195		. Counte	rweigt	ht As	semb	ily	· · •	• • • •			1	4	-	2	۷.	4	7	1	7	-	[*	[ ]			
-3	639197		. Counte	rweigh	ht As	semb	ly	· · · · ·				1	, I	4	4	A	4	<b>7</b>	4	1	4	4	4		-	
-4	639193		Bushi	ng, Ce	ounte	erwei	ght	• • • • •			• • • •	"	A		2	•	**	*	"	*	•	7	7		- }	-
.5	630261-40														2	2					ا را	2	,			}
-5	630261-37		. Pin . Pin	<i>.</i> .		<b>.</b>			• • • •			12	}	2		2	0	0	0		2	2	1		- {	
· <b>5</b>	630261-35		. Pin								• • • •	12		I —		۷.	0	o	0	0	^ ا	-	7		- }	ł
-5	630261-36		. Pin									}		İ	2						}		ا را		İ	
-5	630261-39		. Pin	<b>.</b> .		<b></b>		· · · · ·	• • • •				_	,				4.0	100	100			10		Ì	
-6	635623		. Plate . Snap Ri		<i>.</i> .				<i>.</i>	, . <b>.</b> .		ĺχ	B	8	8	ğ	10	Ιb	Iр	110	ŏ	ð	16			i
-7	629104		. Snap Ri	ing		• · · ·					· · · ·	l8	8	β	8	B	1 1	10	16	ь	Ö	ğ	6		İ	
-8	633189		. Snap ni . Plug, Oi	il Con	trol	<b>.</b>					• • • •	լ	<b>[</b> ]	1		ı	ı	}	<b>'</b>		1		1		1	1
.9	633254		. Tube A	ssemb	Hy, U	H Era	anster	• • • •				1	•		1					1	ĺ					
-10	522188		. Retainii	ng Rir	ng .			<i>.</i> .			• • • •	١.	<b>\</b> .	_	!					!					- 1	}
-11	637579	_	Thrust Wa	asher			<b>.</b>	. <b></b> .				4	4	4	4	4	4	4	4	4	4		4			
-12	633136 & t	$\odot$	Thrust Wa Bearing, f Bearing, f	Main,	Fron	t	. <b></b>					12	2	2	L	2	Z	Z	2				2			
.13		$\widetilde{\mathbb{O}}$	Bearing, I	Main .								6		6	lίΩ	6	Б	6		ĺΩ	6	6	b		- [	
-14	530383 †	(2)	Rearing 1	ใกษกค	enitre	ı Rod	]					112	DZ.	72	72	12	12	IΖ	12	12	βZ	Ĺ		Į		-
-14	630826	†	Bearing, I	Conne	ecting	ı Rod					•	<b>B2</b>	η2	12	72	12	12	12	12	12	72	72	12			}
-15	641250	ļ	Seal Asse	mbly,	Oil	<b>.</b> .	• • • •						}]	]	1	1	1	]	]]	1	]]	!	ָן <u>י</u>		- 1	
-16	641306		. Spring,	Oil Se	eal .							11	]	]]	1	1	1	<u> </u>	<u>                                     </u>	<u> </u>	1	1				
-17	536563	†	Sear Asse . Spring, Dowel Gear, Cra			<i>.</i>						!	]	] ]		1	1	!	!!		!!	1	!		- [	1
-18	536421	1	Gear, Cra	nksha	ift.							11	1	ρ	1	1	ı	<b> </b>	<b>!</b>	<b>'</b>	1	1				
						ΔΥ	TAC	HING	PAR	TS		1		ì	1		Ì	Ì	Ì			Ì				1
-19	536379	:	Screw, D	rilled i	Hex I	Head						6	6	6	6	6	6	6	6	6	6	6	6		-	1
							*	* *	*				ļ	1	ì			ļ	ļ	1	ļ				ļ	
-20	534757		Gear Asse	mbly.	, Idle	r						] }	1	1	1	1	1	1	1	1	1	]1	1			
-21	534741		. Bushing	ı, Idle	r							1	1	1	1	1	1	1	1	1	1	1	1			
-				,,											1		'			}		1				
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- ① Service earlier crankshafts and bearings in accordance with Service Bulletins M78-9 and M74-12.
- ② Use bearing 530383 and rod assembly A36121. See Service Bulletin M74-12 Rev. 1.

0-470-G engines with modernized crankshafts require two (2) each 630464 front main and six (6) each 537848 rear and intermediate bearings.

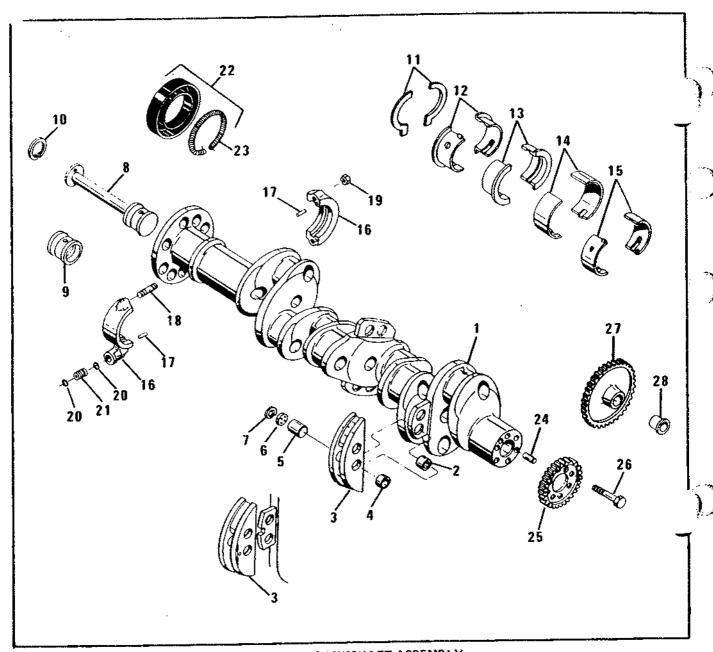


FIGURE 9 - CRANKSHAFT ASSEMBLY MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

FIG.	PART				U/											LY		
INDEX	NUMBER	12345 DESCRIPTION	<u>  C</u>	D	E	F	G	H	J	K	ዜ	M	N	₽	B	S	Ų	٧
9-1	633258	Crankshaft and Damper Assembly	1															
- 1		Crankshaft and Damper Assembly		İ		}		1	ĺ			İ			1		}	
-1	633246	Crankshaft and Damper Assembly							1	1								
-1	630886 C	Crankshaft and Damper Assembly			}						1							
-1	630932 C												1				j	
-1	630927 Č			1	1	1	1					1				1		
-1	629882	Crankshaft and Damper Assembly	.		ĺ							١.		1			- 1	
·2		. Bushing, Crankshaft Damper														8		
.3	639195	. Counterweight Assembly		4	4	4	4	4	2	2	4	4	4	2	4	4	2	2
-3	639196	. Counterweight Assembly		ļ					İ	l		i					2	2
-4	639193	Bushing, Counterweight	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-5	630261-40	Pin	. 1						ļ			İ		4				
-5	630261-35	, Pin	8	8	8	8	8	8	2	2	4	8	8		8	8	4	4
-5	630261-37	. Pin		-	İ	Ì			2	2	4						2	2
-5	630261-39	. Pin			Ì	ĺ		1			ļ	ļ	1		İ		2	2
	635623	Dista	ite	i 16	16	16	16	16	8	8	16	16	16	8	16	16	16	16
-6		. Snap Ring	116	16	16	16	16	16	8	8	16	16	16	8	16	16	16	16
-7 0	629104	. Tube Assembly, Oil Transfer	1		-	-	-		1		Ì				ĺ			
-8		. Plug, Oil Control		1	ı	[ 1	1	1	1	1	1	1	1		1	1	1	1
.9 ••	633189	Retaining Ring	1	!	`	}									ĺ		ļ	
-10	522188	Washer, Thrust	14	4	4	4	4	4	4	4	4	4	4		4	4	4	4
-11	637579		Ϊ.	'	Ι.	-					'			2				
-12	632319 & 1													2				
-13	629848 & 1		110	10	10	าก	าก	าก	10	10	110	10	10	10	าก	10	10	10
-14		Bearing, Main			7.	]	12		12			``			12			
-15	530383 † 4	Bearing, Connecting Rod	12	12	12	12	12	12	12	12	12	12	12		•	12	12	12
-15	630826	Collar Assembly	1,2	1,5	1	1	1	1	1	1	1	1	1			1	1	
-16	626739 1	Collar Assembly	Ί,	'	١.	١.	'	Ι'	Ι'		'	`	<u> </u>	3	`			
-16		Collar Assembly	2	2	1,	1,	,	,	2	2	12	,	2	2	2	2	2	2
-17	626889	. Dowel		2	15	5	2	5	2	5	15	5	2	-		2	2	2
-18	401893	. Stud, 1/4 x 1-1/4 Inch Long		1	1	_	_	۱'	۱		1	֡֡֡֡֡֡֡֡֡֡֡֡	-	2	[ -	-	-	_
-18		. Stud, 1/4 x 1-15/16 Inch Long	٠١,	2	1,	۱,	2	۱,	2	,	2	,	2	2	12	2	2	2
-19	632443-4	. Nut, Marsden Lock		2	5	5	5	5	5	2	2	5	2					2
-20		0-Ring			, .								1	1	1	1	1	
-21	642249	Steeve	Ι;	;	1;	1	'	1	1	1	l i	li	1	ľ	i		1	1
-22	641250	Seal Assembly, Uil	Ή;		;	;	;	1	1	1	H	l i	1		i	,	1	ì
-23	641306	Spring, Oil Seal	1;	1;	;	1	1	1;	i	1	1	;	i	ı	1	1	i	1
-24	536563	Dowel	' ¦	( ;	;	1	;	1	1			1	;	;	1	1	i	1
-25	536421		Ή,	{ '	'	<b>'</b>	<b>'</b> '	'	'	'	Ι'	'	١'	١.	١.	[ ' ]	•	ľ
		ATTACHING PARTS		١.	l _	ĺ_		_	١.	٦	١.		_	_	٦	ارا		_
-26	536379	Screw, Drilled Hex Head	. [6	6	6	6	6	6	6	6	6	6	6	Ь	Ь	b	ь	b
		* * * *																
-27	534757	Gear Assembly, Idler	. [1	1	1	1	1	1	]		1	1	]	!	!	1	1	!
-28	534741	Bushing, Idler Gear	.   1	1	1	1	1		[ ]	1	1	1	1	1	1	]	1	1
		•													-			
									ļ				}					
															}			
			}				İ	}	}									
MOTES	_		j	ł	ı	1	I	ı	ţ	i	1	ı	ı	ı	1	1		

3 625475A1 tube assembly used on earlier 10-470-C crankshafts.

<sup>1</sup> When engine serial number on these models is not prefixed by "CS", order the C/S assembly suffixed with "A1", (ie 630977A1), 6 each 628752 connecting rods and 12 each 630826 connecting rod bearings.

Service earlier bearings in accordance with Service Bulletin M78-9.
 Use bearing 530383 with rod assembly A36121. See Service Bulletin M74-12 Rev. 1.

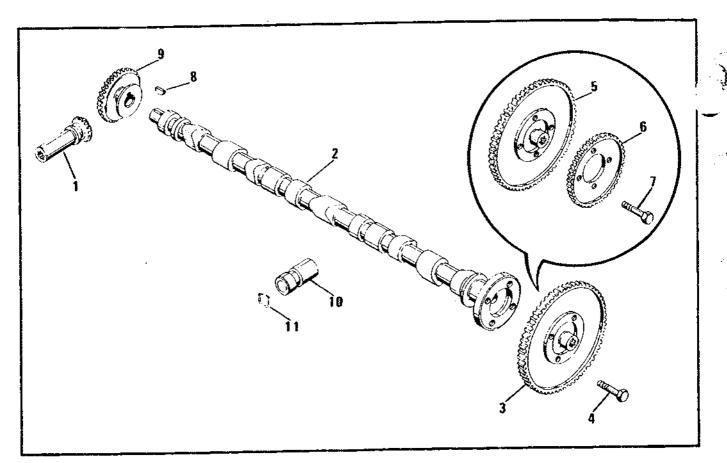


FIGURE 10 - CAMSHAFT ASSEMBLY MODELS 0-470-A,B,E,G,J,K,L,M,P,R,S,U

FIG.	PART						Q	U۵	N,	TI	TΥ	' F	PEI	R	Α	SS	EN	ΛB	LY	_	_
NDEX	NUMBER		12345	DESCRIPTION		A	В	E	G	J	K	L	М	P	R	S	U	L	L	L	Į
10-1	538076		Gear, Govern	nor Drive Bevel	- • •	1	1	1	1	1	1	1	1	1	1	1	1				
-2	535661	†	Camshaft .			j	1	1	1	1	1	1	1	1	1	1	1	ļ			l
-3	535660		Gear, Camsha	aft		1	[ :	1		1	1	1	ĺ		1	1		l			
-3	631845		Gear, Camsha	aft							l			ļ			1		ļ		
				ATTACHING PARTS							l			Ì		ŀ			•		l
-4	535737		Screw, Briffe	ed, Hex Head		4		4		4	4	4		ĺ	4	4	4				
•				* * * *		}									١		ł	l	1		l
-5	537432		Gear, Camshi	aft			1		1		l		1	1			1		ĺ	ĺ	
-6	535662			duster		l	1	1	1		l		1	1	ĺ		ŀ				
			•	ATTACHING PARTS						ļ				ŀ							
-7	535666		Screw, Drille	ed, Hex Head		ļ	4	4	4	1			4	4				ļ			
•	000000		00.000, 00.000	* * *		ŀ	ŀ			ŀ			1			1	Ì	Ì		1	l
-8	MS35756-8		Key, Woodru	uff		1	1	1	1	1	1	1	1	1	1	1	1			ļ	
.9	534655		Gear Govern	nor Drive		11	1	1	1	1	11	[]	11	11	11	1	1				
-10	628488		Lifter Assem	ibly, Hydraulic		12	12	12	12	12	12	12	12	12	12	12	12			]	
-11	641862	0	Ring, Snap	)		1	ī	1	1	1	]1	1	1	1	1	1	1	1			

The new configuration of the 628488 hydraulic lifter incorporates this new snap ring P/N 641862 (red in color). However, snap ring P/N 628491 must be used with the older configuration of the lifter. The most discernible difference between the old and new lifter is in the ball socket. The old design socket tapered from the center nearly to the 0.0. The newer of that must use the new snap ring (641862) shoulders roughly half-way between the center and 0.0. The socket of diameter differences are 1/16" for the old design and 1/8" for the new.

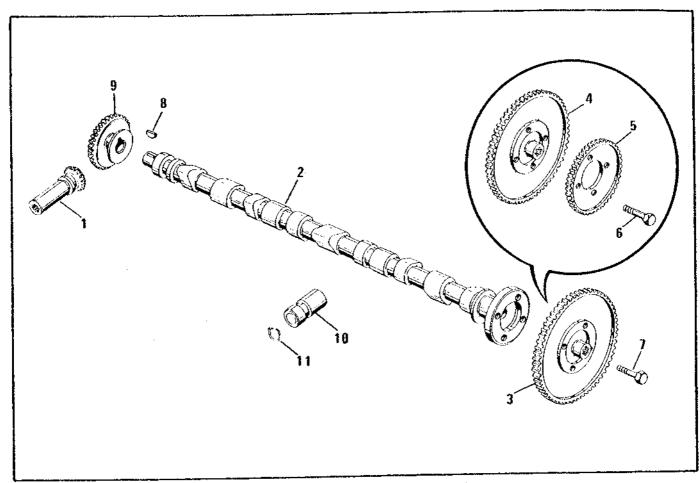


FIGURE 11 - CAMSHAFT ASSEMBLY MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

FIG.	PART			Q	U	٩N	TI	 ТҮ	· F	ÈΙ	3	A	SS	ΕN	BI	Υ.		
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	Н	J	K	Ĺ	М	N	Р	R	S	U	ᅬ
11·1 ·2 ·3	538076 535661 535660	Gear, Governor Drive Bevel  † Camshaft	1	1	1	1	1	1	1 1	1 1 1	1	1	1	1	1	1	1	1
-4 -4 -5	537432 631845 535662	Gear, Camshaft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6 -7	535666 535737	ATTACHING PARTS Screw Drilled Hex Head	4	4	4	4	4	4	4	4	١.	4	4	4	4	4	4	4
-8 -9 -10 -11	MS35756-8 534665 628488 641862	Key, Woodruff	 [12	1 1 2 12 1	1 1 1 1	1 1 2 1	1 1 2 1;	1 1 2 12 1	1 1 2 1 2 1 2	1 1 1 1 1	1 1 2 1 2 1	1 1 12 1	1 1 12 1	1 1 12 1	1 1 12 1	1 1 12	1 1 12 1	1 1 12

The new configuration of the 628488 hydraulic lifter incorporates this new snap ring P/N 641862 (red in color), However, snap ring P/N 628491 must be used with the older configuration of the lifter. The most discernible difference between the old and new lifter is in the ball socket. The old design socket tapered from the center nearly to the O.D. The newer design that must use the new snap ring (641862) shoulders roughly half-way between the center and O.D. The socket oil hole diameter differences are 1/16" for the old design and 1/8" for the new.

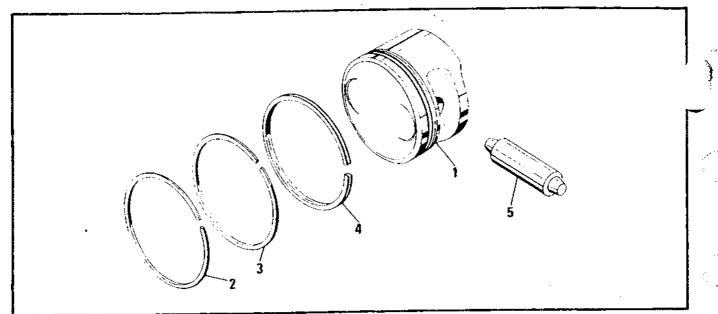


FIGURE 12 - PISTON AND RING ASSEMBLY MODELS 0-470-A,B,E,G,J,M,P

FIG.	PART			mobile of the transfer	<u></u>		QI	JΑ	N.	<u> </u>	Υ	PE	R		SS	EN	1BI	_Y	
INDEX	NUMBER		12345	DESCRIPTION		Ā	В	E	G	J	ΚŢ	LN	1 P	R	S	υ		$\Box$	
12-1	534895	†	Piston, 7:1 (	Compression Ratio		6		6		6		ł							
-1	537883			Compression Ratio			6	1		Ì		16	6   6	ij					
-1	539814			Compression Ratio			_	ı	6						İ				
-2	639567	†		, Top Groove			6	,		6	- [	[6	6 6	1					
.2	639566	ţ	Ring, Piston,	, Top and Second Groove				2	12	- 1	- {		ر ا			'			, , ,
-2	640299			, Top. & Second Groove .			12	12	_ }	12	- }	ון	2 12	4	-	}			
-2	640301			, Top & Second Groove .				ı	12	- 1	Ì		.   .	1			ĺ		_
.3	639568			, Second Groove		t - I		- 1		6	ļ		6		1				
-4	639768	② †	Ring, Piston,	, Third Groove		6	6				- 1		6			Ì			
-4	640300	(1)	Ring, Piston	, Third Groove		6	6	6	6	6			6	,		Ì			
-5	539467	†	Pin and Plug	Assembly, Piston		6	6	6	6	6	١	-   6	6	1					

### MODELS 10-470-C, G, J, K, P, B

FIG.	PART														SSE				
INDEX	NUMBER		12345	DESCRIPTION		C	D	ĒΙ	F [ (	H	IJ	K	ī	M	N		3 5	υ	V
12-1	539814	†	Piston, 8:1 C	Compression Ratio		6	ĺ		16	}						6   1	6		
-1	534895	†	Piston, 7:1 (	Compression Ratio	<b>.</b>		Ì		-		6	6		Ì	1	-			1 (
-2	639566	t	Ring, Piston,	Top & Second Groove	]	12	ŀ		]1	2			[		1	2 1	2		ļ `
.2	639567	t		Top Groove					ĺ		6	6	Ì						ļ
.2	640301	0		Top & Second Groove		12		ļ	1	2					1	2 1	2		}
-2	640299			Top & Second Groove				-	1		12	12	4	}	<b> </b>	-			}
-3	639568	†		Second Groove				ł	ĺ		6	_	ł	1		Ì	}		
-4	639768	② t		Third Groove				Í	[€	}	6	6		l	4 1	6   6			
-4	640300			Third Groove				ļ	€	}	6	6		}	[1	6   1	6	1	
-5	539467			Assembly Piston					- [€	;	6	6	ĺ		] [	6   6	5		

- 1 For use with chrome cylinders.
- This ring and expander assembly includes 629828 ring, which is not serviced separately. See Section IV for complete ring assemblies.

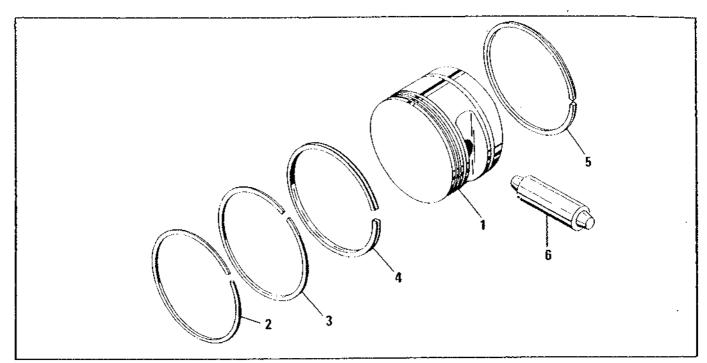


FIGURE 13 - PISTON AND RING ASSEMBLY MODELS 0-470-K,L,R,S,U

FIG.	PART						Q	UA	N	TI.	ľΥ	F	E	<u>3</u>	A:	SSI	EM	BL	Υ	
INDEX	NUMBER		12345	DESCRIPTION		A	В	E	G	J	K	L.	M	P	R	S	Ü	$\Box$	Ţ	$\prod$
13-1	640518	†	Piston, 7:1 Co	ompression Ratio			į								6	6		{		
-1	632932	① †		ompression Ratio	· · · · · · · · · · · · · · · · · · ·	1					6	6			οр		.		-	ļ
-1	631481	†	Piston, 8:1 Co	ompression Ratio		ļ											6			
-2	639565	†	Ring, Piston,	Top Groove											6	6	6		}	-
-2	639567	<u>†</u>	Ring, Piston,	Top Groove							6	6	ĺ		op					
-2	640301	@	Ring, Piston,	Top & Second Groove											12	12	12		-	
-2	640299	3	Ring, Piston,	Top & Second Groove							12	12		ĺ	op					Ì
-3	639566	†	Ring, Piston,	Second Groove		Ì			[ ]				ļ		6	6	6		-	{
-3	639568	_ †	Ring, Piston,	Second Groove							6	6		ļ						
-4		③ †	Ring, Piston,	Third Groove				}	ĺ			ĺ			6	6	6			İ
-4		① t	Ring, Piston,	Third Groove	, , , , ,						6	6			op				-	
-4	639663	@@	Ring, Piston,	Third Groove						ļ	6	6			6	6	6	1		
.5	627480	ţ		Fourth Groove	]					Ì	6	6				6	6	[	-	Ì
-5	640302	(3)	Ring, Piston,	Fourth Groove							1 -	6	}	ļ			6	. 1		}
-6	539467	†	Pin and Plug A	Assembly, Piston							6	6		ļ	6	6	6			}
									}		}		-						- [	1
															ļ '					
															}				-	
								}						ĺ						

- ① Parts superseded and not interchangable with later pistons or rings except in complete sets. (626992 piston is still available if required.) See Figure 14.
- 3 For use with chrome cylinders.
- This ring and expander assembly includes 639664 and 629828 rings respectively, which are not serviced separately.
  See Section IV for complete ring assemblies.

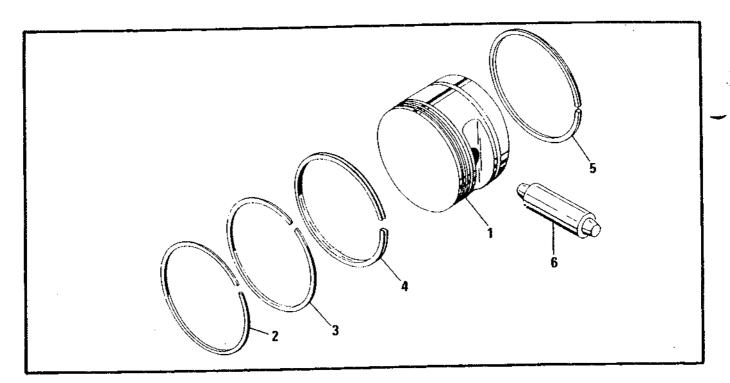


FIGURE 14 - PISTON AND RING ASSEMBLY MODELS 0-470-K, L, R

	PART	ı				1	Q	UA	N,	TI	ΓY	Ī	'E.	R	Α	55	EN	1B	LY.		_]
FIG. NDEX	NUMBER		12345	DESCRIPTION		A	В	E	G	J	K	Ŀ	М	P	R	<u>s</u>	υ			_	_
14-1	020002	① †		Compression Ratio							6	6			6					\$	•
-2	639567	Ţ		, Top Groove		1	}			ļ	6 12	6			12	l	-	'			
-2	640299	Ø		, Top & Second Groove				]	ļ		6	6	1	Ì	6	1		ł		~	
-3	639568	- 其		, Second Groove					•	•	6	6	ļ	Į	6						ı
-4	639768			, Third Groove		1		}	١		6	6	ĺ		6				]	1	1
-4	640300	(2)		, Third Groove				ļ		ŀ	6	6			6	1		Ì			
-5	627480	ţ		, Fourth Groove							ŀ				6	l	ļ	١	Ì	ĺ	ı
.5	640302	②	Ring, Piston	, Fourth Groove	• • • • •			ĺ	İ	ĺ	6	6	-	1	6		ļ	Į.			
-6	539467	ţ	Pin & Plug A	Assembly, Piston	• • • • •	1					6	6			10		ĺ			-	ı
							1													ļ	ļ
						1							1	1						ł	
							ļ						1		}					1	
						ı	l	١		}		ì	İ	Ì							1
						ı	ì	l	Ì		Ì					1			1		1
								l				ŀ	ļ			l					
						l		l							1		1				]
										}							İ		} }	ļ	
							1				1				}		-				
						1		ĺ	1					Ì	}	ĺ			į į		

- Parts superseded and not interchangable with later pistons or rings except in complete sets. (626992 piston is still available if required.)
- 1 For use with chrome cylinders.
- This ring and expander assembly includes 639664 and 629828 rings respectively, which are not serviced separately. See Section IV for complete ring assemblies.

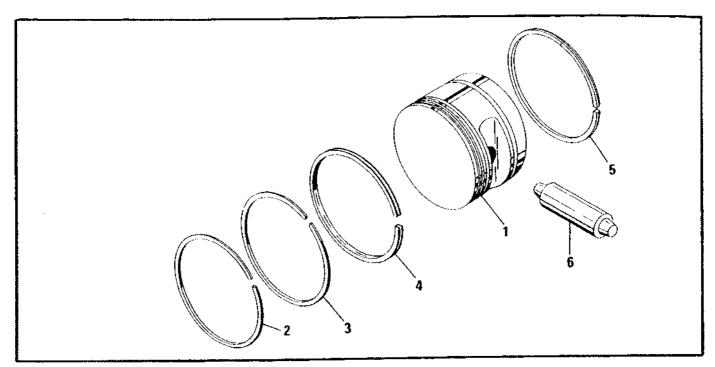


FIGURE 15 -PISTON AND RING ASSEMBLY MODELS 10-470-D,E,F,H,L,M,N,S,U,V

F16.	PART	$\neg \Gamma$			<u></u>	 	Q	UΑ	רות	ΓΙΤΥ	, E	PEF		as As	SE	ME	BLY	,	
INDEX	NUMBER		12345	DESCRIPT	TON	 	D	E	F	GH	J	K	L	М	N	PF	3 <u>S</u>	U	V
15-1 -2 -2 -3 -4 -4 -5 -5	627738 639565 640301 639566	1 † † † † † † † † † † † † † † † † † † †	Piston, 8.6:1 Ring, Piston, Ring, Piston, Ring, Piston, Ring, Piston, Ring, Piston, Ring, Piston, Ring, Piston,	Compression Ra Top Groove Top & Second Of Second Groove . Third Groove . Third Groove . Fourth Groove Fourth Groove Assembly, Pisto	Groove .	 	6	6 6 6 6 6 6 6	6 6 12 6 6 6 6	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			6 6 12 6 6 6 6	6	6 6 6 6 6 6		6 6	6 6 6 6 6 6	6 6 12
NOTES	: or use with ch	emone	cylinders.															<u>.</u>	

<sup>1</sup> This ring and expander assembly includes 629828 ring, which is not serviced separately.

 $<sup>\</sup>ensuremath{\mathfrak{G}} \ensuremath{\mathsf{See}} \ensuremath{\mathsf{Seet}} \ensuremath{\mathsf{See}} \ensu$ 

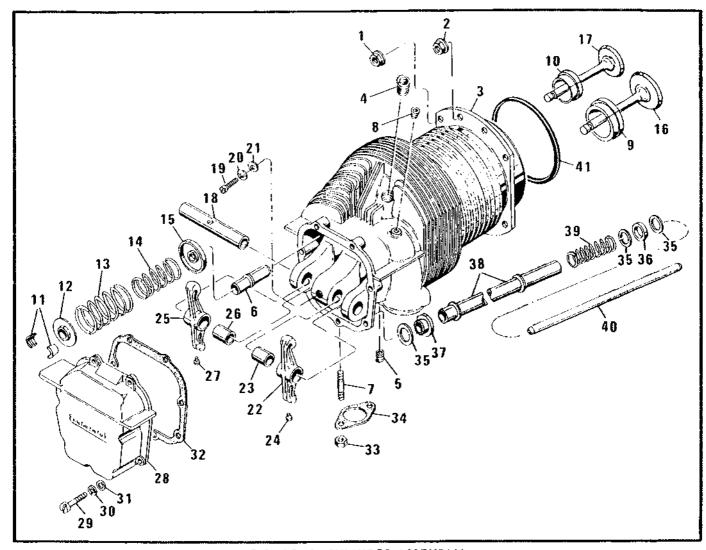


FIGURE 16 - CYLINDER ASSEMBLY MODELS 0-470-A,E,J

FIG.	PART		Γ	Q	UΑ	N	17	ΓY	1	PE	R	A	SS	SEI	ΛI	3L	Υ		٦
INDEX	NUMBER	12345 DESCRIPTION	A	В	E	G	IJ	K	L	M	P	R	S	lu	L	I	I	$\perp$	]
16-	539491A3 539491CP-A1 ① 628051A1 628051CP-A1 ①	Cylinder and Valve Assembly Cylinder and Valve Assembly Cylinder and Valve Assembly Cylinder and Valve Assembly	6		6 op		6 p												
		ATTACHING PARTS													ŀ				
-1	634505	Nut, Flanged	12		12	<u></u>	2											ļ	
-2	531001	Nut, Flanged			12 36	ķ	6												
.3 .3 .3 .4 .5 .6 .7	539491 539491CP ① 628051 628051CP ① 520112 MS122121 631496 1 401885 1 629518-1H	Cylinder Assembly Cylinder Assembly Cylinder Assembly Cylinder Assembly Insert, Spark Plug, 18mm Insert, Intake Flange, 1/4 - 20 Guide, Valve Stud, 5/16 x 1-9/32 Inch Long Plug, 1/8 Inch NPTF	1 op 2 2 2		1 op 2 2 2		1 2 2 2 2												

ŗ <del>-</del>	<u></u>	$\overline{}$		Γ_				TI	TV		) F	—- R		22	F	VIR	LY		٦
FIG.	h h	1	12345 DESCRIPTION	A	B												Ī	-	$\dashv$
16 -9		 }	Insert, Intake Valve Seat	1	П	1		1		Γ	Γ	Π				Γ			7
- 10 °. }(		†	. Insert, Exhaust Valve Seat	1		1		1							İ				
-11		1	Key Valve Spring Retainer	4		4		4											
-12			. Retainer, Valve Spring Outer	2		2		2	l							ļ	}		
-13			Spring, Valve, Outer	2	{	2	ļ	2											١
-14			Spring, Valve, Inner	2		2		2				}				Ì			1
-19			. Retainer, Valve Spring, Inner	2		2		2								1			
-11			. Valve, Intake	1		1		1	١				1			}	1		Ì
-1	· · · · · · ·		Valve, Exhaust	1		1		1					1	İ			}		
- 18			Shaft, Valve Rocker	6		6		6			l	İ					Ì		ļ
- 15			Screw, 5/16 x 25/32 Inch Long	6		6		6	ļ	}						}			
-21			Washer, Lock	6		6	ĺ	6	}		1	-	Ì	1					1
-2			Washer, Plain	6		6		6	1	1					1				1
-2			Rocker Assembly, Intake Valve	6	1	6		6				İ		-	Ì			1	ļ
-2			. Bushing, Valve Rocker	1	1	1	ļ	1	ļ			Į		1		ļ	-	1	
-2			. Screw, Round Head Drive	1		1		1	}	į									
-2	=		Rocker Assembly, Exhaust Valve	6		6	Ì	6			١		l			1	1		
-2			. Bushing, Valve Rocker	1		1		1				-		ı					-
-2			. Screw, Round Head Drive	1	İ	1	ļ	1	}							ļ			1
-2			Cover, Valve Rocker	6		6		6			Į		ļ				ļ		
۳.	5 502.00		ATTACHING PARTS																
21	n E2E110		Screw, Fillister Head	42	2	42	2	4:	2		-					1			١
-2			Ottew, Linker Lead	42		4%		42					İ	l	Ì	1			ı
-31			Washer, Lock	1		42	1	42	i		į		1		l			1	-
.3	1 20522		Washer, Plain	142	ļ							ļ	-						
-3	2 532451	&	Gasket Valve Bocker Cover	16	ì	6		6				ĺ		-				} }	
-3			Nut Hex	ji z	<u>'</u>	12		12					ĺ			ı	1		ı
-3	4 21493	&	Gasket, Exhaust Flange	ļÞ		6		6	1	-			ı	ļ				1 [	- 1
-3			- Basket Spirotalic	рp	}	9f		36			-		Ì	1		-			-
-3			Washer, Pushrod Housing	P	) į	12.1	)	12			İ				ļ				ı
-3		8	Packing, Pushrod Housing	62		12	,	12	,				-						1
-3		Ö	Packing, Pushrod Housing	h	5	12		12	* I				Ì		1	1		ĺĺ	- 1
-3			Spring, Pushred Housing	h	2	13	2	1			١		1			1			.
-3			Pushrod	1	2	1:	2	11:	2					-	١				l
-4 -4		æ	Packing Ring, Cylinder to Crankcase	6	;	6		6	;		l		Ì	Ì	-	ı			. [
	1 532200	· ·	Tucking time, opinion to the second			1							Í	İ	-				
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N	OTE:					1		1					- [	ļ	Ì	ĺ			
	Optional chro	)me	cylinders.		-	ļ						Ì	- {			- {	ļ		
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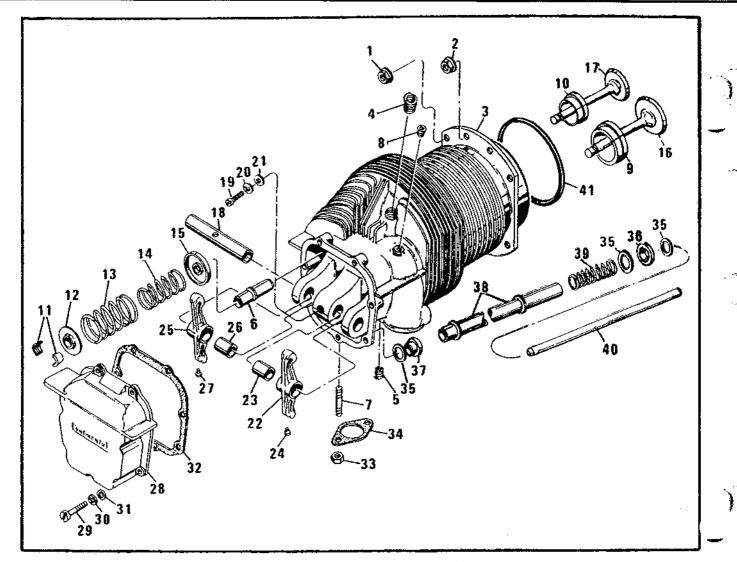


FIGURE 17 - CYLINDER ASSEMBLY MODELS 10-470-J,K

FIG.	PART			-	Qί	ΙA	N.	TI	Ŧ١	1	PE	R	Æ	188	E	ИΒ	ΕY	,	J
INDEX	NUMBER	12345 DESCRIPTION	C	I	) E		F	G	H	IJ	K	L	М	N	P	R	S	U	V
17-	539491A3 539491CP-A3	,		-			•			1	6 0p	t							
	004505	ATTACHING PARTS	ł	Ì		Ì				١,			ı				1		
-]	634505	Nut, Flanged				1					12	•	ļ						[
-2	531001	Nut, Flanged								36	36							:	
-3	539491	. Cylinder Assembly	ı	Ì			-			1	1	ł		ĺ	1				
-3	539491CP	① . Cylinder Assembly		Ì		Ì	ŀ			þρ	þp					1			11
-4	520112	Insert Spark Plug, 18mm		1		-				2	2				1		ŀ	ŀ	1
-5	MS122121	. Insert, Intake Flange, 1/4 · 20		-						2	2				1	1			
-6	631496	† Guide, Valve		ļ		ı				2	2	1	1		1	1			
-7	401885	† Stud, 5/16 x 1-9/32 Inch Long		ı		١				2	2		1	1	1	1			
-8	629518-1H	Plug, Hollow Square Head Pipe, 1/8 Inch NPTF	-	Ì		ļ	ļ			1	1	l	İ	1					
-9	35966	† Insert, Intake Valve Seat		ł			J			1	1	-		1					
-10	35967	† Insert, Exhaust Valve Seat		j		Į				1	1	ļ	-	1	}	1		Ì	
-11	24802	. Key, Valve Spring Retainer		Ì	İ	1				4	4		Ì	İ			ĺ		
-12	35971	. Retainer, Valve Spring, Outer		1		-	}		1	2	2			1		ĺ			,

FIG.	DADY	1	Т		31 )	AN	TIT	ΓV	E	E	<del>-</del>	Δ.	201		BL	— V	
INDEX	PART NUMBER	12345 DESCRIPTION	-  -												<u>BL</u>	<b>T</b>	<b>.</b>
	<u> </u>			<del>`</del>	21	- 10	112			2	5	n	9	쒸		╬	L
17-13	520105	Spring, Valve, Outer								2						{	
-14	637836	Spring, Valve, Inner								2			ı				
-15	625393	. Retainer, Valve Spring, Inner		ļ	-					1	i	{				-	
-16	532129	. Valve, Intake		1						, ,		Ì		Ì		Ì	ŀ
-17 -18	626540 625142	Shaft, Valve Rocker					İ			6			İ	Į		1	
-19	535666	Screw, 5/16 x 25/32 Inch Long			ĺ		İ			6		į	- 1	- [			
·20	MS35338-45	Washer, Lock								6		{	- [	-		1	
-21	2473	Washer, Plain			İ		{			6		1	İ	- [	-		
-22	A24814	Rocker Assembly, Intake Valve				1				6				Ì			
·23	530367	. Bushing, Valve Rocker				-	ĺ		1	1				į	ļ	-	
-24	21007	. Screw, Round Head Drive				}		1	2	2			- 1	į	Ì	1	
-25	A24815	Rocker Assembly, Exhaust Valve	•			-			6	6			ŀ	į	- }	İ	
-26	530367	. Bushing, Valve Rocker				İ	}		1	1	ĺĺ	ĺ	Ì		- }		
-27	21007	. Screw, Round Head Drive							1	[1]	lÌ		ļ	-	Ì		
-28	532450	Cover, Valve Rocker		ĺ	-		}		6	6			-		- {		ł
		ATTACHING PARTS			-		ļ		ļ	ļ	]			Į	1		1
-29	535118	Screw, Fillister Head	ı				}		42	42					ĺ		
·30	MS35338-44	Washer, Lock							42				- 1	ļ	ļ	ļ	
-31	20522	Washer, Plain					Ì		42		} }	¦	ı	Ì	1	ļ	
-01	20322	**************************************		1			Ì			}	ÌÌ		Į		1		
-32	532451	& Gasket, Valve Rocker Cover					}	i	6	6				- }		1	
-33	22022	Nut, Hex				-			12			{					
-34	21493	& Gasket, Exhaust Flange							6			j					
-34	632837	& Gasket, Exhaust Flange		1		-			ĺ	6			1	Ì		}	
-34	627429	& Gasket, Exhaust Flange						ļ	ор	!		}	Į			}	
-35	534609	Washer, Pushrod Housing			}				36				}	i		}	'
-36	534610	Packing, Pushrod Housing			}				12	12			}	ĺ		1	ŀ
-37	536410	Packing, Pushrod Housing		İ					12	12			ł				
-38	537296	Housing, Pushrod							12	12			}			1	
-39	626147	Spring, Pushrod Housing				Į			12	12			1				
-40	538305	Pushrod			ļ				,	12		ļ	ı				
-41	532200	& Packing Ring, Cylinder-to-Crankcase					ļ		6	6		}	}	ŀ			ļ
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U	Optional chromi	e cylinders.	ĺ													•	
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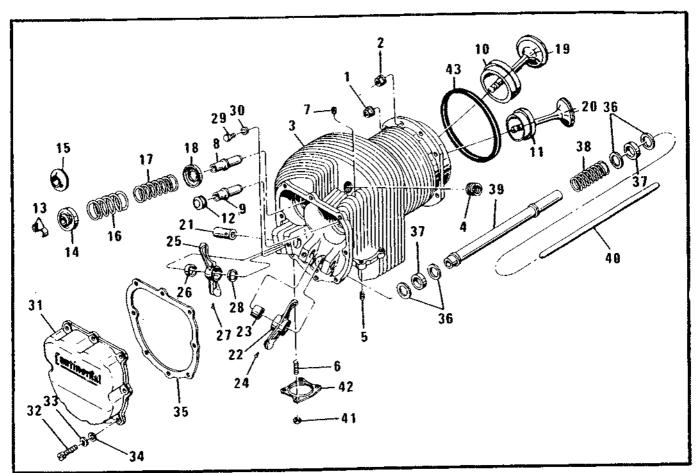


FIGURE 18 - CYLINDER ASSEMBLY MODELS 0-470-B,G,K,L,M,P,R,S,U

FIG.	PART				JAN				_						Υ_		
INDEX		12345 DESCRIPTION	A	В	E	لإ	K	L	M	P	R	S	U	$\dashv$	1	-	
18-	539492A1	Cylinder and Valve Assembly		6							Ì						ĺ
	642068A3	Cylinder and Valve Assembly			-   6	3	6	ļб	6	6		٦		. !	ļ		
	642068A1	Cylinder and Valve Assembly						ĺ		ļ.,	6		[ ]	. [			
	642068CP-A1				0	p	ot	)OI	jot	lot	yop	lob			1	'	
	641962A1	Cylinder and Valve Assembly			- }	1	1	l		Ì	Ì		6		- [		
		ATTACHING PARTS					ĺ					İ		. (			
-1	634505	Nut, Flanged		12 36	1	2							12				
-2	531001	Nut, Flanged	1	36	3	6	36	3	36	36	36	36	36	il			ŀ
_	••••	* * * *	1			ļ					İ			; <b>)</b>		-	ľ
-3	539492	. Cylinder Assembly		1					١.	١.	١.		1			}	
-3	642068	Cylinder Assembly				1			1					1 1	1	Ì	
-3	642068CP	① Cylinder Assembly			0	P	01	3 0	olot	olo	ot	op	۱. ا				ĺ
-3	641962	. Cylinder Assembly						١.		1_			1				l
-4	520112	Insert, Spark Plug, 18mm		2	:	2	2	2	2	2	2	2			-		
-4	520112-1	Insert, Spark Plug, 18mm	1				١.	Ì.		١.	١.	١.	2			Ì	l
-5	MS122121	Insert, 1/4 - 20	-	4	4	7	4	4	4	4	4	4	4		ĺ		1
-6	401804	† Stud, 1/4 x 1-1/16 Inch Long		4			١.	١.	١.	١.	1.	١.	١.	H	-	1	l
-6	401893	† Stud, 1/4 x 1-1/4 Inch Long				4	4	14	4	4	4	4	4				l
-7	629518-1H	Plug, 1/8 Inch NPTF		1		1							1		]		ļ
-8	631496	† Guide, Valve		2		1							1		j	ł	•
.9	641960	† Guide, Valve, Intake		١.		١,	1	1	}]	1			1		-		
-10	35966	t Insert, Intake Valve Seat, 45 Degrees		1		.		1.	. .		١.	١,	1				-
-10	630591	'† Insert, Intake Valve Seat, 30 Degrees	.	ļ	1 1	1 }	1	+1	١,	ו ן		1	1				ı

Fin	2000		<u>_</u>		UA		  TV				Λ.			3L\	
FIG		400AE DECOBIDEION	H				—							ЭŁ )	; <del>]                                    </del>
		12345 DESCRIPTION		1  R	EC		1		1			3		+-	╂╌╀
18 -1	·	† Insert, Exhaust Valve Seat		'	-		1		1			1			
<u> </u>		② . Seal Assembly, Valve Guide Intake		4	1 1	- 1	4	4		4	4		4		{
.1		. Key, Valve Spring Retainer		1			1	1	1	1	1		ï		11
-1		Rotocap, Exhaust Valve Spring Outer		l'i	1 1				1	i		;			1
-1		. Retainer, Intake Valve Spring Outer		2			2	2		2	- 1	- 1			1
- 1		Spring, Valve Outer		2			2	2	2	2		2			1 1
·1 -1		Retainer, Valve Spring, Inner		2			2	2	5	5	2	2	2	ì	1 1
-1		. Valve, Intake, 45 Degrees		1	1		~	-	_	-	_		_		Ιİ
-1		. Valve, Intake, 30 Degrees		-			1	1	1	1			1	-	
-1		Valve, Intake, 30 Degrees									1	1			
.2		. Valve, Exhaust		1	1		1	1	1	1	1	1		ļ	
.2		. Valve, Exhaust					1						1	-	
-2		Shaft, Valve Rocker		12		2						12 1		-	1 1
.2		Rocker Assembly, Intake Valve		6	(	; }	6	6	6	6	6	6	6		1
·2		. Bushing, Valve Rocker		1	1	1						1			1
.2		. Screw, Round Head Drive		1	1							1		}	
-2		Rocker Assembly, Exhaust Valve		6	6		6	6	6	6	6	6	6		
-2		Bushing, Valve Rocker	.	1								1			
-2		. Screw, Round Head Drive		1			, .	, .	1	- :		1			
-2		† Washer, Thrust	.	24								24		}	
-2	9 537019	Screw, Hex Head, 5/16 x 17/32 Inch Long	-	12								12		1	
-3	0 2473	Washer, Plain		12								12			
-3	1 625615	Cover, Rocker Valve		6	6	i	6	6	6	6	6	6	6		11
		ATTACHING PARTS	- [	ļ			į				}				1 1
-3	2 535118	Screw, Fillister Head, 5/16 x 17/32 Inch Long		48								48		-	1 1
<u></u> -3	3 MS35338-44	Washer, Lock		48								48			1
-3	4 20522	Washer, Plain	.	48	4	8	#8	48	48	48	48	48	18		
_		* * * *		6	11,	3	1	ءا	l e	اء	e.	6	6		11
-3		& Gasket, Rocker Valve Cover	.	48		8						48			
-3		Washer, Pushrod Housing	.	24		4						24			
-3		& Packing, Pushrod Housing		12	1	2						12			
-3 -3	• •	Housing, Pushrod		12		2						12		ļ	
-3 -4		Pushrod		12		2						12		-	
-4		Nut, Hex		24		4	24	24	24	24	24	[	ŀ		
-4		Nut, Hex	.	op	1 1	p	ор	op	ор	ор	ор	24	24		
-4		& Gasket, Exhaust Flange	.	6		3	6	6	6	6	6	6	6		
.4		Gasket, Exhaust Flange, Spirotallic	٠	op	)  c	p	lop	op	op	op	op	ор	qo		
-4		& Packing Ring Cylinder-to-Crankcase	.	6		3	6	6	6	6	6	6	6		1
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<b>~</b> (	Optional chrom	•						Ì		Ì	-				
(	This assembly c	ontains six seals and one installation tool.						}	ĺ						

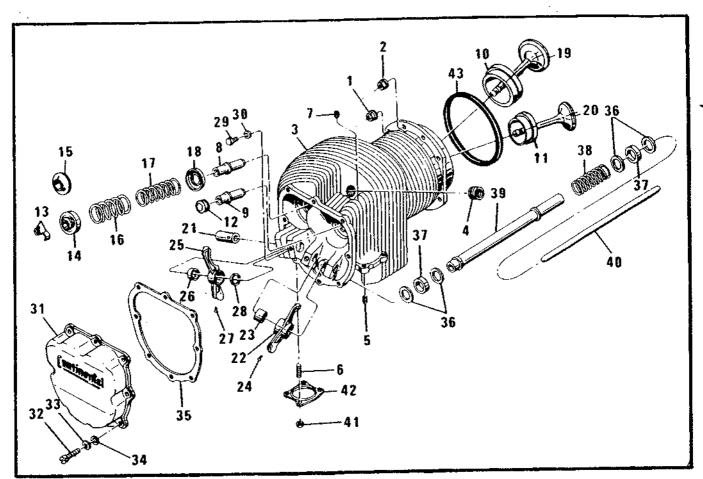


FIGURE 19 - CYLINDER ASSEMBLY MODELS 10-470-C,D,E,F,G,H,L,M,N,P,R,S,U,V

FIG.	PART						TI							<u> </u>				
NDEX	NUMBER	12345 DESCRIPTION	C	0	Ε	F	G	Н	3	K	L	М	N	Ρ	R	S	U	V
19-	642068A3	Cylinder and Valve Assembly	6				6							6	6		ļ	
••	642068CP-A1		Ор	i			op							OΡ	Op			
	626820A8	Cylinder and Valve Assembly	}	6	6	6		6			1 -	6	_			6	- 1	
	626820CP-A2			op	op	op		Θр			op	op	op	ľ		op	оp	op
		ATTACHING PARTS		١														
-1	634505	Nut Flanced	112	12	12	12	12	12		1						12		
-2	531001	Nut, Flanged	36	36	36	36	36	36	ļ		[36	36	36	36	36	36	36	36
-	50.007	* * <del>*</del> *		į			L	}			]	ļ	1		Ļ			
-3	642068	Cylinder Assembly	6			l	6	ţ	•	ļ	1			1 -	6			ŀ
-3	642068CP	Cylinder Assembly	րբ	1			op		ļ			٦		ор	op	٦	6	٦
.3	626820	Cylinder Assembly	•	1	6		3	6	1		1	6				1		ı
-3	626820CP	①, Cylinder Assembly	1	lob	op	Op	1	op	1		op	op	lob	1	2	ор	ob	υþ
-4	520112	. Insert, Spark Plug, 18mm	2	١.	1		٦	2					١,			2	,	,
-4	520112-1	Invest Spark Plus 18mm		14	\2 •	12	12	١.			14	14	14	14	14	4	1	/A
-5	MS122121	. Insert, 1/4 - 20	14	14	4	4	4	4	ļ		4			4			4	5
-6	401893	T Stud 1/4 v 1-1/4 lach Laga	14	4	4	Į ~	**	"	ł	Ì	4	14	14	14	1;	17	1	17
-7	629518-1H	Dina 1/0 lack NDTC		15	11	1.3	11	1 1	1	ĺ	2	1,	2	1:	Ľ	2	2	,
-8	631496	t Guide, Valve	11	14	14	12	1:	4		}	4	-	14	;	1,	1	1	1
.9	641960	T Guida Value Intake				3	1			1	1	١,	1	1:	ľ	1	1	١.
-10	630591	Insert, Intake Valve Seat	1!	!				1								1		
-11	35967	T Insert Exhaust Valve Seat	13	11	1	<b>,</b>	ľ.	1			<b>'</b>	'	1		[ ;	•	'	
-12	64 1952 A 1	②. Seal Assembly, Valve Guide, Intake	ł,	1	I	ì	1 :	I	ļ	ş	į	ţ	1	1.	1'	ı	I	=

	1	DADT.	T	·	O	114	M		τv	P	ER		Δ.ς	SF	M	BL.			٦
	FIG.	PART NUMBER	12345 DESCRIPTION	c		F	F	G			ΚI						s Tu	īTi	7
<u> </u>	9.13	24802	Kou Valva Spring Retainer	4	4	4	4	4	4	_	4		4	4		_	_	1 /	1
•	J∙13 -14	629117	Rotocap, Exhaust Valve Spring Outer	1	1	1	1	1	1		-   1	ı þ	1	1	1	1	1   1	1   1	
	-15	35971	Retainer Intake Value Shriff URIEL		E	1	1	, ,	1		- {1	ı þ	1			1	1   1	1	ı
	-16	520105	. Spring, Valve Outer	2.	2	2	2	2	2	Į	12	2   2					2 2	2   2	!
	-17	637836	. Spring, Valve, Inner	2	2	2	2	2	2			2   ;	2	2	2	2	2 2		2
	-18	625393	Retainer Valve Spring, Inner	2	2	2	2	2	2	-	12	2   :	2			2			
	-19	539988	Valve, Intake	1	1	1	1.	1	1		1	i	1	1	1 [	1	1   1	1	1
	-20	626540	. Valve, Exhaust	1		'		1		.					1	1			
	-20	637781	Value Exhaust	ı	1	1	1		1			٠,	٠.	1			٠,	1	j
	-21	539740	Shaft, Valve Rocker	12	12	12	12	12	12								21		
	-22	539742	Rocker Assembly, Intake Valve	ļb	ļb	b	Ю	D	}o ∣		10	1		6			6		
	-23	639629	. Bushing, Valve Rocker	[]	1	3		1								1		]	1
	-24	21007	. Screw, Round Head Drive	1	1	1	1	1	1 ' 1			' 1	٠,	1		1		1	· I
	-25	641682	(tocker resource), Extracte			6		6			ן ו		- 1	6	o	6	b	6	
	-26	639629	. Bushing, Valve Rocker	[]		1		1				!	1	1		:	:	1	!
	-27	21007	. Screw, Round Head Drive	Ľ.		1	ι.	1	3 .				!	۱.			!		١.
	-28	639573			24												4 2		
	-29	537019	Screw, Hex Head, 5/16 x 17/32 Inch Long	12	12	12	12	12	12								2		
	-30	2473	Washer, Plain	12	12	IZ O	ΙZ	12	12							6	2		•
	-31	625615	Cover, Rocker Valve	6	6	b	b	р	Þ		ן וי	3	b	b	Þ	٥	ין פ	6	'
			ATTACHING PARTS			Ì			}		}		Ì		Ì		-	-	
	-32	535118	Screw, Fillister, 5/16 x 17/32 Inch Long	48	48	48	48	48	48								18 4		
	-33	MS35338-44	Washer Lock	μĸ	ÆΚ	48	μĸ	μb	μĸ								18 4		
	-34	20522	Washer, Plain	48	48	48	48	48	48		4	18 K	18	18	48	48 ¥	18 4	8	8
			* * * *	ı	ł	l	ı	i	1							_			
	-35	534857	& Gasket, Rocker Valve Cover	6	6	6	6	6	6	i							6		
	-36	534609	Washer Pushrod Housing	Иΰ	148	<b>48</b>	4 t	14t	148								48		
	-37	534610	& Packing Pushrod Housing	124	124	24	124	124	<b>IZ4</b>	ļ							24 2		
	-38	626147	Spring, Pushrod Housing	112	112	112	12	12	12	ĺ							12 1 12 1		
	-39	537296	Housing, Pushrod	112	12	12	12	12	12	Ì							12		
	-40	538304	Pushrod	2/2	2/2/	2/	24	174	124								24		
	-41	21247	Nut, Hex	6	100	L T	יאו	, .	-			- 1	- 1				op		
	-41	536038	Nut, Hex	I E	14	l G	a	ไล	R		[ [	a	6	ัลไ	6	6	6	ត	6
	-42	631544	& Gasket, Exhaust Flange														opk		
	-42	628260	& Packing Ring, Cylinder-to-Crankcase	6	16	6	6	6	6			6	6	6	6	6	6	6	6]
	-43	532200	& Facking Ring, Cymider to Clanicose	ľ		ľ	ľ	-		}		_	_ {			-	ĺ		
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±.					}	-			-			ļ							
N	IOTE:									ļ		ļ							-
_	<b>①</b> 0	ptional chrome c	ylinders.									Į				}		ļ	
		•	tains six (6) seals and one installation tool.						ĺ	١		ļ			}			ł	- [
	·			!	ì	1	1	t	ı	i	1 1	,		. '	'		'	,	•

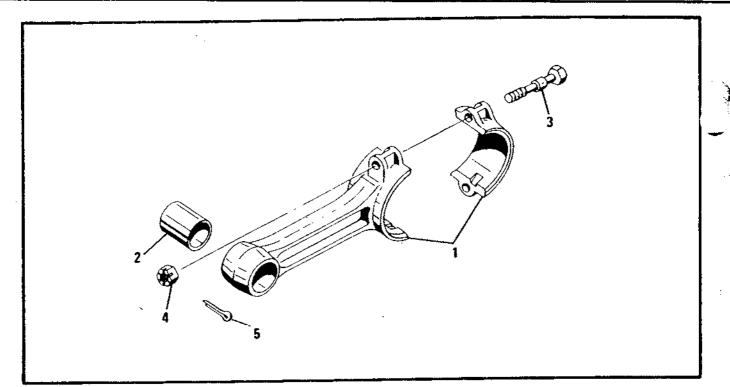


FIGURE 20 - CONNECTING ROD ASSEMBLY ALL MODELS

FIG.	PART			Q	U/	١N	Ti	ΓY	F	EF	₹	A	SS	ΕN	BL	Υ_	
INDEX	NUMBER	12345 DESCRIPTION				G										工	口
20-1	A36121	Rod Assembly, Connecting Rod Assembly, Connecting Bushing, Piston Pin Bolt	6	6	6	6	6	6	6	6	6	6					
-1	628752	Rod Assembly, Connecting	6	6	6	6	6	6	6	6	6	6	6	6			
-2	530658	. Bushing, Piston Pin	1	[ 1	1	[ ]	1	1	1.	1	1	1	1	1			-
-3	35972	. Bolt	2	2	2	2	2	2	2	2	2	2	2	2			
-4	626140	. Nut, Stotted, Hex, 3/8	, 2	2	2	2	2	2	2	2	2	2	2	2			
-5	639292	. Nut, Stotted, Hex, 3/8	2	2	2	2	2	2	2	2	2	2	2	2		ļ	

FIG.	PART			Q	U/	/N.	TI.	ΤY	P	EF	₹	A	SS	ΕM	BL	Υ.		
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	Н	J	K	L	M	N	P	R	S	UΝ	4
20-1	A36121	Red Assembly, Connecting     Red Assembly, Connecting     Bushing, Piston Pin     Belt	6				6		6	6				6	6		İ	١
.1	628752	Red Assembly, Connecting	6	6	6	6		6	6	6	6	6	6			6	6 6	š
-2	530658	. Bushing, Piston Pin	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1   1	
-3	35972	. Bolt	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2   7	4
-4	626140	. Nut, Stotted, Hex, 3/8	2	2	2	[2]	2	2	2	2	2	2	2	2	2	2	2   2	4
-5	639292	. Nut, Slotted, Hex, 3/8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2 2	4

① Engines not having the serial number prefixed by "CS" will use A36121 rods.

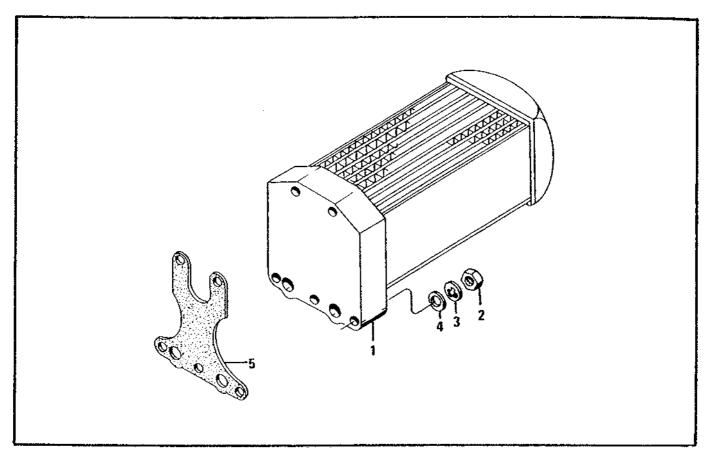


FIGURE 21 - OIL COOLER

## MODELS 0-470-A,E,J,K

FIG.	PART			Q	U,A	۸N	T	TY	١	PE	R	Α	SS	EN	AB	LΥ	
NDEX	NUMBER	12345 DESCRIPTION	A	В	Ē	G	Ĵ	K	L	M	P	R	S	U			
21-1	534503	① Cooler, Engine Oil	1		1		1	3									
		ATTACHING PARTS															!
-2	2437	Nut, Plain Hex	5		5		5	5	Ì			1					
-3	MS35338-44	Washer, Lock			5		5	5		l			ļ		[ ]		
-4	20522	Washer, Plain			5 5		5		Į				-				,
		* * * *	ĺ		ļ				1				l	{	ļ		ı
-5	625303	& Gasket, Oil Cooler-to-Crankcase	1		1		1	1			ĺ						

## MODEL 10-470-F

FIG.	PART			Q	UΑ	W	TI	ΤY	F	PEI	R	Α	SS	ΕN	1B!	LY	,	
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	Н	j	K	I	M	N	P	R	S	U	٧
21-1	534503	① Cooler, Engine Oil				ĵ												
		ATTACHING PARTS			}		[				[				1			
-2	2437	Nut, Plain Hex				5		ĺ		ĺ		1			ll			
-3	MS35338-44	Washer, Lock				5				}					1	}		:
-4	20522	Washer, Plain				5							-					
		* * *	1	-	l			}	Į	Ì		ĺ	l I	,				
-5	625303	& Gasket, Oil Cooler-to-Crankcase				1		<u> </u>										

① See Section VI for Specification Applications.

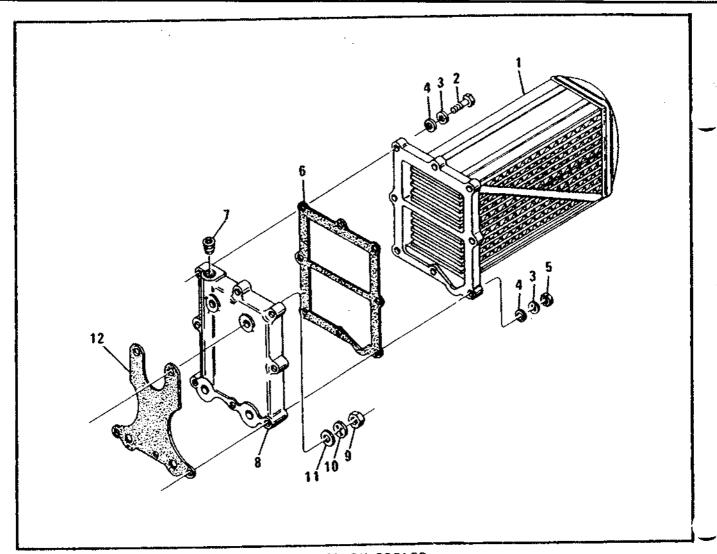


FIGURE 22 - OIL COOLER MODELS 0-470-G,L,P,R,S,U

FIG.	PART			Q	U/	N	TI	ΤY	1	PE	R	Α	SS	E١	ΛB	LY		
INDEX	NUMBER	12345 DESCRIPTION	Ā	В	E	G	J	K	L	M	P	R	S	U				$\Box$
22-1	627392	O Cooler, Engine Oil				1	Į		1		1	1	1	1			ŀ	1
		ATTACHING PARTS	1				l		1					İ			Ì	١
.2	535631	Screw, 1/4 x 1 Inch Long		ļ		5			5		5				l			- [
-3	MS35338-44	Washer, Lock		l	1	8		}	8			8					1	- 1
-4	20522	Washer, Plain				8			8			8						
-5	2437	Nut, Plain Hex				3			3		3	3	3	3				- [
		* * * *						1		ì							ĺ	-
-6	632372	& Gasket, Oil Cooler-to-Plate	1			1	l	1	1		11	1	1	!				- 1
.7	2026	Plug, Pipe, 1/4 Inch			İ	1			1		!	[]	!	!		•		- [
-8	625016	Plate, Oit Cooler Adapter	1	l	1	יו	1		]	İ	ין	1	1	ין		]		ŀ
		ATTACHING PARTS	-							1	1				]			
-9	2437	Nut, Plain Hex		1		2			2			2				ļ		ı
-16	MS35338-44	Washer, Lock				2	1	ŀ	2			2						
-11	20522	Washer, Plain			1	2			2		2	2	2	2				
		* * *			1					1	_		١.			]		
-12	625303	& Gasket, Plate-to-Crankcase	1		1	1			[1		1	1	1	1	1		,	Ī
	NOTE:							İ				1						

① See Section VI for Specification Applications.

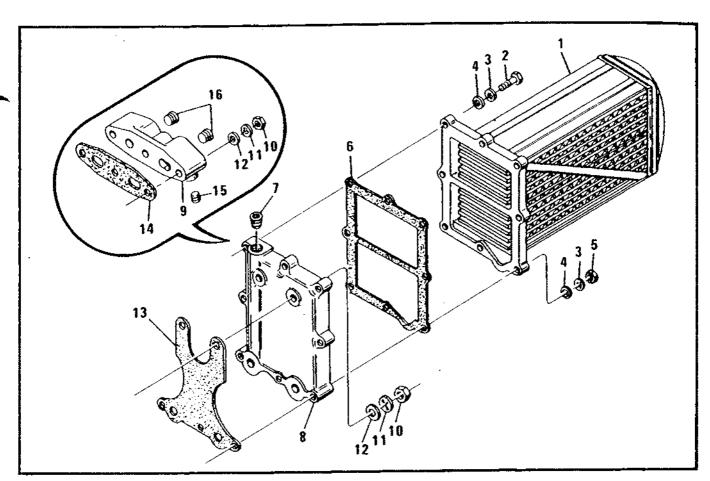


FIGURE 23 - OIL COOLER MODELS 10-470-C,E,G,H,J,K,N,R,S

FIG.	PART		Τ	Q	U/	١N	TI'	ΓY	F	PEI	R	A:	SSI	EM	BI	_Y		
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	H	J	K	L	М	N	P	R	S	Ų	V
23-1	627392	① Cooler, Engine Oil	1		1		1	1	1	1		ĺ	1	ł	1	1		ł
		ATTACHING PARTS	1									Ì	]	Į		-	ŀ	-
.2	535631	Screw, 1/4 x 1 Inch Long	5		5		5	5	5	5		ł	5	}	5			
.3	MS35338-44	Washer, Lock			5 8 8 3					8		ļ	8	}	8		-	1
-4	20522	Washer, Plain	8	İ	8			8		_		}	8	ļ	8		Ì	ı
-5	2437	Nut, Plain Hex	3		3		3	3	3	3		{	3	Į	3	3		
		* * * *	1.					١.		_	ĺ	ļ		Ī			ļ	- [
-6	625017	& Gasket, Oil Cooler-to-Plate	11		1		1	1	1	1	[	Ì	1	ł	1	1		1
J - 7	2026	Plug, Pipe, 1/4 Inch	1		1		1	1	1	1		į	1 [		1	1		-
-8	625016	Plate, Oil Cooler Adapter	[1		1		1	1	1	ו		ļ	1	-	1	1	ĺ	
-9	535958	Adapter, Oil Cooler Pad	1								H	[		1	.		İ	
		ATTACHING PARTS	1								 	ļ		Į				-
-10	2437	Nut, Plain, Hex	2		2		2	2	2	2						2		1
-11	MS35338-44	Washer, Lock	12		2 2 2		2	2	2	2				3	2	2	-	
1 .12	20522	Washer, Plain			2		2	2	2	2		Ì	2	3	2	2		1
•		* * *												Į		ı	-	-1
-13	625303	& Gasket, Plate-to-Crankcase	1	1	1		1	1	3	1		{	1		1	1	ł	
-14	535756	& Gasket, Adapter-to-Crankcase										Î		1	ļ	į	-	- }
-15	401763	Plug, Pipe, 1/4 Inch NPT										į	-	1				- 1
-16	629518-4H	Plug, Pipe, 1/2 Inch NPT										Ì		2				

① See Section VI for Specification Applications.

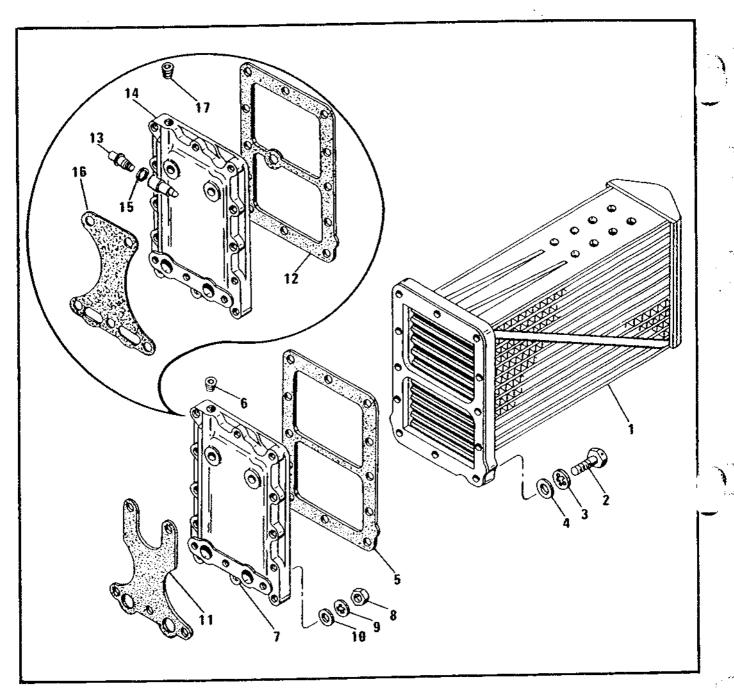


FIGURE 24 - OIL COOLER

## MODELS 0-470-B,M

ric l	BART		Τ		ĮŪ,	٩N	ITI	ΤY	7 6	PEI	R	Α	SS	E٨	/BI	_Y		
FIG.	PART NUMBER	12345 DESCRIPTION	A	В	E	G								υ		$\Box$	_	7
24-1 -1		Cooler, Engine Oil		1						1								<u> </u>
-2	535631	ATTACHING PARTS  Screw, 1/4 x 1 Inch Long		12	2					12								
.2 .3 .4	535668 G MS35338-44 20522	Screw, 1/4 x 1-3/8 Inch Long	1	12	2					12	1						1	1
-5		* * * * & Gasket, Oil Cooler-to-Plate		1				ļ		1	ļ						_	اً ر

FIG.	PART	QUANTITY PER ASSEMBLY	
INDEX	NUMBER	12345 DESCRIPTION ABEGJKLMPRSU	
24 -6 -7	2026 537312	Plug, Pipe, 1/4 Inch	
-8	2437	ATTACHING PARTS  Nut, Plain, Hex	
-9 -10	MS35338-44 20522	Washer, Lock	
-11	625303	& Gasket, Plate-to-Crankcase	
-12 -13	626342 626332	Gasket, Oil Cooler-to-Plate	
-14 -15	639305 627496	② Oil Temperature Control Valve	
-16 -17	626341 2026	② Gasket, Plate-to-Crankcase       1         ② Plug, Pipe, 1/4 Inch       1	

## MODELS 10-470-D, L, M, U, V

F	1G.	PART	Т													Q	UA	N.	TJ.	ΤY	F	ΈI	R	A:	SSI	EM	BL	′	
	DEX	NUMBER		123	45	Į	DE	SC	RIP	TIC	ON				 C	D	E	F	G	H	J	K	L	М	N	ΡĮi	a S	U	V
<b>L</b>	24-1	626189	0	Coole	r, Engin	e O	Oil									1							1	1					
	-1	639152 ②	0	Coole	r, Engin	e O	Dil								 ļ	1			'						1			1	1
	-1				r, Engin														}				1						
								A'	TTA	ACHI	ING	PAI	RTS			}			}										
	-2	535631		Screw	, 1/4 x	i In	nch	Lor	ng .							12							12		Ì	- {	-		
	.2		0		, 1/4 x											12	ĺ	}		}			12			1	-		12
	-3	MS35338-44			r, Lock											12		}	ĺ			1	12			1	Į	12	
	-4	20522			r, Plain											12	Ì			{			12	12				12	Π2
											* *						ĺ	ĺ		]			١. ا						
	-5	537282	&		t, Oil C											1			İ					1			ĺ		
	-6	2026			Pipe, 1/											1		ĺ	ļ					1					
	-7	537312		Plate,	Oil Coo	ier	r Ad	lapti	er.							1							1						
								A	TTA	<b>\CH</b> !	ING	PA	RTS		1														_
	-8	2437		Nut, I	Plain, He	ex.										5		ļ						5			1	5	5
	.9	MS35338-44		Washe	er, Lock											5		ļ	İ				5	5				5	5
	-10	20522		Washe	er, Plain											5	İ			ĺ			5	5			Į	5	5
:										* *	* *	*				١.		ĺ					_						l
	-11	625303	&		t, Plate-											1							1	1		l	İ	1.	١,
	-12	626342	<b>②</b>		t, Oil C											1				ĺ			1					1!	1:
	∙13	626332	(i)	,	Oil Cod											1							!	ĺ				1,	1;
	-14	639305	<b>②</b>		erature											1		•	}				!!	}				;	];
	∙15	627496	0		ket											1	Į		{	ł			1:					'	
	-16	626341	<b>(3)</b>		t, Plate											1				ĺ		Ì	1:				Į	•	;
,	-17	2026	0	Plug,	Pipe, 1/	4 Ir	neh						• • •	• • •		1							•				Í	-	ļ <b>'</b>
																								ļ	'				
																	ļ						}	ļ					
																			}			ļ	}						

O See Section VI for Specification Applications.

Denotes optional non-congealing oil cooler and associated parts. Standard on 10-470-U & V.

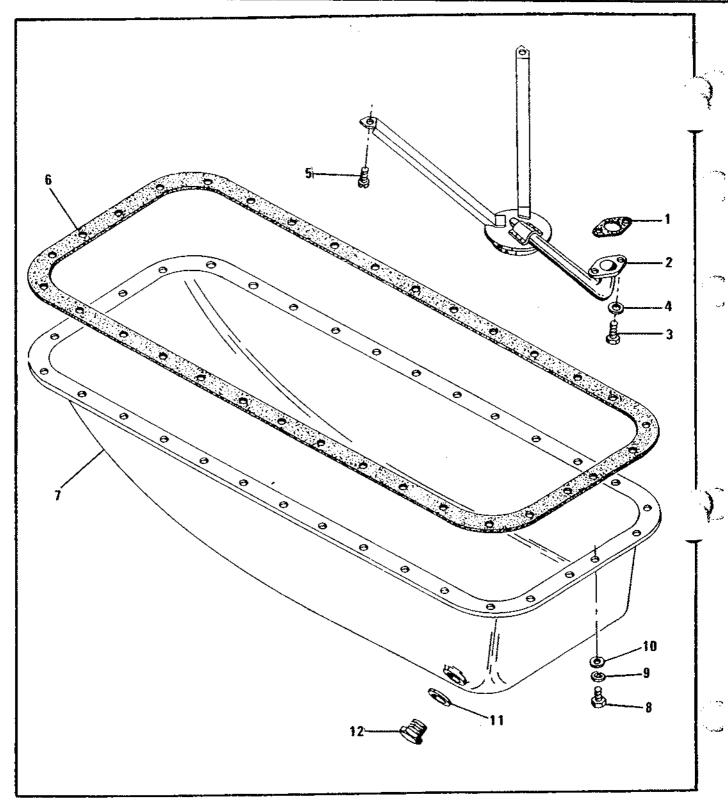


FIGURE 25 - OIL SUMP

# MODELS 0-470-A,B,E,J,K,L,M,R,S,U

FIG.	PART		Τ								₹	AS	SSI	EN	BI	.Y		7
VDEX	NUMBER	12345 DESCRIPTION	A	В	E	G	[-	K	Ī	M	P	R	S	U			$\Box$	]
25.1	534940 8	Gasket, Suction Tube	1	1	1			1		1		1	1	1		Ì		
-2	625207	Tube Assembly, Oil Pump Suction	1	1	1	ļ	1	1	1	1		1	1	1			-	١
		ATTACHING PARTS										_					1	-
-3	MS20074-04-04	Bolt, Drilled Head	2	2	2		2	2	2	2 2	1	2	2	2			1	-
-4	20522	Washer, Plain	4	ļ 2	14		2	2	2	2			4					-
-5	MS20074-04-03	Bolt, Drilled Head	2	2	2		2	2	2	2		2	2	2				Ì
		* * *	١.	١.		ļ	١.	١,	,	ارا		۱,	,				- [	١
-6	534743 8	Gasket, Oil Sump	!	!!	!				,	1	]	1	1	1			-	
-7	537650	Sump Assembly, Oil	'		1	ļ	,	'										
-7	539937	Sump Assembly, Oil		1		}			1			1	1	. '				-
		ATTACHING PARTS	1			Ì				}		ļ						1
-8	530346	Screw, Hex Head, 5/16 x 7/8 Inch Long	28	<b>\$2</b> 6	28					26			28					ł
.9	13XX202B	Washer Lock 5/16 loch	124	424	ĮΖċ	9		, :		26			28					ı
·10	2473	Washer, Plain	24	126	28	1	28	28	28	26		28	28	28			- 1	l
		* * * *		1	ţ	1		1	,	٦		٦	2	,			- [	- [
-11	AN900-10 8	Gasket, Annular	12	2	12		2	4	2	2	} ]	2		2			- 1	-
-12	532432 C	Plug, Oil Drain, 5/8	2	12	2		2	2	2	2		4	2	2				- 1

## MODELS 10-470-D,E,F,G,L,M,P,R,S,U,V

FIG.	PART						Q	U٨	ŹΝ	TI	ΤY	P	ER		AS	SEI	ME	BL)	_	
IDEX	NUMBER		12345	DESCRIPTION		C	D	E	F	G	H	<u>J</u>	K		М	N P	R	S	U	1
25-1	534940	<u>3</u>		Tube			1	1	1	1		Ì		1	1			1	1	1
-2	625207		Tube Assembly	, Oil Pump Suction			1	1	1	1				'	1	1	1	1	ין	1
				ATTACHING F		İ		٦		_	} }	ŀ	ı I,	ړ	۱ ۲	١	[_	١	1	١,
-3	MS20074-04-04			ad		l	2	2	2	2				2	2	2	14	2	2	1
-4	20522						2	Z	2	2		l		2	۲,	2	12	2	2	1
-5	MS20074-04-03		Bolt, Drilled He	ad			2	2	2	2				۷	2	12	12	ľ	1	ľ
-6	534743	Š.	Gasket, Oil Sun	* * * * 					1			ĺ		1	1	1.	1.	1	1	ŀ
-7	537650			y, 0il			1	1	1	1				1	- 1	1	1	ĺ	1	[
-7	628698			y, Oil					-					- 1	1	- 1		1.		
-7	633412			y, Oil					ļ					1				1	ļ	
				ATTACHING I	PARTS															١
-8	530346		Screw, Hex Hea	ad, 5/16 x 7/8 Inch Lo	ng				84						28			3/26		
-9	13XX202B			5/16 Inch		Ì			28						28			6 <b>þ</b> £	•	
-10	2473						26	26	28	26				28	28	28	3/21	6 <b> </b> 26	3	) [3
				* * * *							l			۱,	ĺĺ	٠   <sub>-</sub>	١,	2	١,	.
-11				or			2	14	2	14		1	1	2	ا ۱	4	14	4	14	1
-11		Ši.		r					1					- 1	2	-	1		1	ł
-12	20274	_		, 3/4			2	٦	٦	٦				2	-	2	1,	1	1,	, ].
-12	532432	ע	Plug, Oil Drain,	, 5/8		ĺ	12	ľ	2	1	1		1	۲			1	'	-	
																		1	l	
														Ì					1	1
3:						l		ļ												
ne 63	6376 magnetic dra	in	plug may be us	ed as an option to 53:	2432 drain plug.						1			1	ll	- [	1		١	- 1

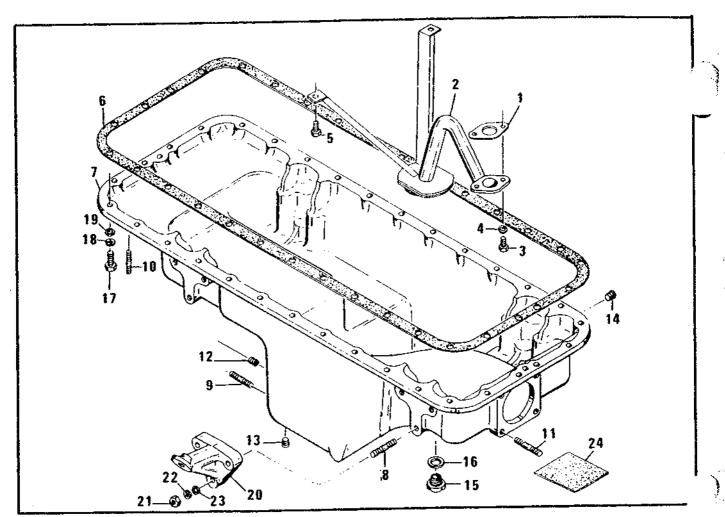


FIGURE 26 - OIL SUMP

## MODELS 0-470-G,P

	<del></del>		MUDEES 0-470-0,F	Т														
FIG.	PART											_		_		/BI	LY	
INDEX	NUMBER	12345	DESCRIPTION	Α	В	E	G	J	K	L	M	P	R	S	Ü		Щ	-
26-1	534940 8	& Gasket, Suction	Tube		1	1	1					1						
-2	538937	Tube Assembly	, Oil Pump Suction	-			1				ĺ	1			1			- }
			ATTACHING PARTS									ĺ		Į				
-3	MS20074-04-04	Bolt			ı		2	İ	l			2				}		
-4	20522	Washer, Plain .			1	1	2		ł	Ì	Ì	2			İ			
-5	MS20074-04-03	Bolt		1			2			l	l	Z		l	1			-   `
			* * *	1			١.			1	1	١.	]	l				-
-6	534743 8		n <b>p</b>		İ	ļ	!!			ļ		]!		l	1			
·7	538814A1		Assembly		ļ	Į.	1		ı	İ		1,1					Į	
-8	401860 1	i . Stud, 3/8 x 1-	9/16 Inch Long		1	1	12		l		l	11.4		1		}		
-9	401885	t . Stud, 5/16 x	1-5/16 Inch Long	1			2	ļ			1	12	ĺ	ļ	1			- 1 :
-10	401804	. Stud, 1/4 x 1-	-1/16 Inch Long			l	4		1		1	4	i		1		}	:
-11	401885	. Stud, 5/16 x	1-5/16 Inch Long	ļ	İ	1	4	i	]			4	1		1	ı		ļ
-12	MS122122	. Insert, 5/16		1	1		2	1				2			İ	1	i I	Ì
-13	2024	. Plug, Pipe, 1/8	8 <i></i>				1	1	1	l	Ĺ	1					i I	ı
-14	401753		4 <i></i>		-		1					1			1			1
-15	2265		n, 5/8				1					1						I.
-16			ilar				1					1	1	İ				Ì
		·	ATTACHING PARTS			]	1											
-17	537750	Bolt, 5/16 x 1-1	1/8 Inch Long	-	-	1	32	1	1		ļ	32	2	ŀ	ŀ			

FIG.	PART			Q	UA	١N	TI.	ΤY	'n	PER	Α	SS	ΕŅ	181	Y.	
INDEX	NUMBER	12345 DESCRIPTION	A	В	E	G	J	K	L	MP	R	S	U		$\Box$	I
26-18	13XX202B	Washer, Lock				32			1	32					į	
-19	2473	Washer, Plain	-			32		ļ			Ì				j	Ì
-19	22533	Washer, Plain			ŀ					32	]				ŀ	1
		* * * *				ĺ		l		.		ĺ	ļ			
-20	625383	Bracket, Engine Mount	. [			١.		1	ĺ	4	ļ				- [	
-20	626089	Bracket, Engine Mount	-	1	1	4		l	l			1		{	İ	- [
		ATTACHING PARTS	- 1									ļ			-	-
-21	2441	Nut, Hex				12	l		l	12	1	ļ	İ		-	- 1
-22	MS35338-46	Washer, Lock		1		12	1		l	12			1			
-23	2474	Washer, Plain			l	112		l	1	12						- 1

# MODELS 10-470-C,H,J,N

FIG	DADT		T		U/	 Δ N	T1	T V		PF	R	Δ9	SEI	MRI	Y	
FIG.		12345 DESCRIPTION	c										N P	_		ועוט
L		Gasket, Suction Tube	7	1	▝	ŕ	٦	1	Ţ	7	Ť		1		_	
26-		Tube Assembly, Oil Pump Suction			ŀ		ł	lí	Į.	•			1		-	
-		Tube Assembly, OH Pump Section	'		ļ		Ì	ĺ.	١.	١,			1	}	1	
-	2 628409	Tube Assembly, Oil Pump Suction		ļ						١.		$  \cdot  $	1			
		ATTACHING PARTS	١,		ļ			١,	١,	2			,	1		
-		Bolt						2				1	2		-	.
		Washer, Plain	2					2		2 2			2		- 1	11
-	5 MS20074-04-03	Bolt	12					4	14	4		] [	2		- 1	
;		* * * *	١.		ļ	l		١,	1	١,	ļ		,	1		
•		Gasket, Oil Sump	11	Ė	ļ		1		3	'	ĺ		'	Į Į	- ]	
	·	Sump Studding Assembly	1 1					<b>!</b> '	'	١	ļ.		,		- 1	
-	7 628372A2	Sump Studding Assembly	١,,	]				ļ.,	١,,	11			12	1	1	11
-:	3 401860 ±	. Stud, 3/8 x 1-9/16 Inch Long	11/2	1						12	1		2	1	- 1	
-:		. Stud, 5/16 x 1-5/16 Inch Long		1			ì	2		ŀ			4	1 1		
- 31		. Stud, 1/4 x 1·1/16 Inch Long		1	1	İ		4	4	ı	Ì					
-1		. Stud, 1/4 x 1-1/4 Inch Long		1	ı	1		١.	١.	4			4			
-1		. Stud, 5/16 x 1-5/16 Inch Long				l		4	4		Ì	П	E			
-1		. Insert, 5/16					1	2	2			П				
-1:	3 2024	. Plug, Pipe, 1/8	[]	l	1	1		!!	!!	١.						_
- 1-	401753	. Plug, Pipe, 1/4	11	l	ı	1		!!	١.	1.	1			] [		
<b>.</b> -1!		. Plug, Oil Drain, 5/8	[]	]	i	ļ		11	!!	Ľ	1		!			
j -10	6 AN900-10 8	Gasket, Annular	1	1		1	1	1	1	1			'			
		ATTACHING PARTS		l	1								-			
-1	7 537750	Bolt, 5/16 x 1-1/8 Inch Long	32	!	ĺ					30			32	11	1	
-1		Washer Lack	132	1		1	1			30			32			
-3!		Washer, Plain	32	2			1	32	32	30	1		32	1		
		* * *	1			ļ	1		Ì							11
` -2	625383	Bracket, Engine Mount		ĺ	Ì		l	4	1							
´ -2!		Bracket, Engine Mount	4	ļ				1	4	4	ļ		4			
		ATTACHING PARTS		l												
-2	1 2441	Nut, Hex	<b>h</b> 2	2				12	12	12	2		12			[ ]
-2		Washer, Lock	112	2				12	12	12	2		12			
-2		Washer, Plain	112				-	12	12	12	2	1	12			
-2	J 417	##UOTION, BIUNE								-				1		
-2	4 534625	Felt, 3-1/16 x 4-1/16 Inch								1			4			
-2.	7 007020	yon, o into A a mio mon the first terms		ļ				1		1	1		ŀ	1 1		!!

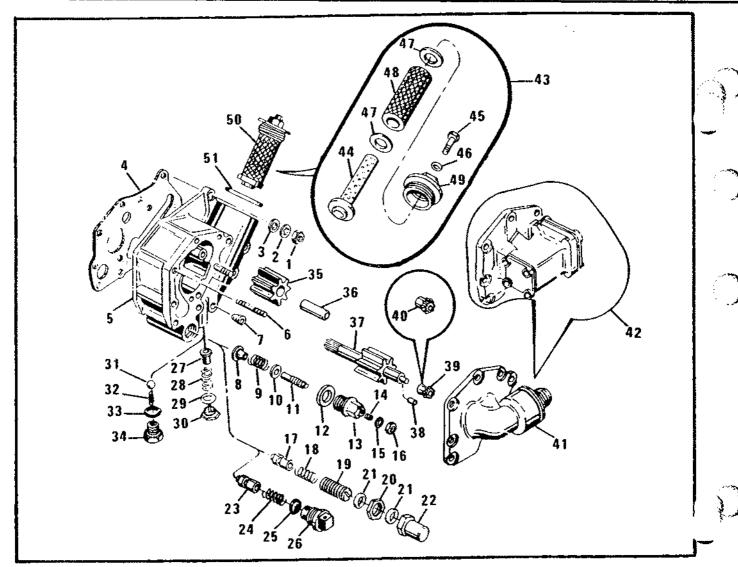


FIGURE 27 - OIL PUMP ASSEMBLY MODELS 0-470-A,B,E,G,J,K,L,M,P,R,S,U

FIG.	PART			Q	U/	N	TI	ΤY	<u> </u>	PE	R	Α	SS	E١	ΛB	LY			
INDEX	NUMBER	12345 DESCRIPTION	A	В	E	G	IJ	K	L	M	P	R	<u>s</u>	V		L	Ц	4	
27-	632563A31	Housing Assembly, Oil Pump Complete	1													l			
	632563A2	Housing Assembly, Oil Pump, Complete		1	1		ı			1				}					
	632563A4	Housing Assembly, Oil Pump, Complete					i	1	1			ļ							, .
	632563A7	Housing Assembly, Oil Pump, Complete		1	1		1		ļ			1	1	1					
	632563A16	Housing Assembly, Oil Pump, Complete				1					1					ļ			
		ATTACHING PARTS						ŀ							ĺ			1	
-1	2437	Nut, Plain Hex	11	11	11	11	11	11	11	11	11	11	11	11					
-2	MS35338-44	Washer, Lock	11 1	11.1	ш	Ш		16.6	ĮI I	11.4	ļ! I	} t t	[]]	111	Ł				
-3	20522	Washer, Plain	11	11	11	11	11	11	11	11	11	11	11	11					-
		* * * *								١.	[.	١.		١.					
-4	538185	& Gasket, Pump Housing	1	1	1	1	1	1	1	1	1	1	1	1					~
-5	632563	① . Housing and Shaft Assembly, Oil Pump	1	1	1	1	1	1	1	1	1	1	1	] [		-	i		
-6	401963	† Stud, 1/4 x 1 Inch Long	2	2	2	2	2	2	2	2	2	2	2	2		}			
.7	AN932-2	Plug, Pipe, 1/8 Inch NPT	1	1	1	1	1	1	1	1	1	1	1	[1		ļ	Ì		
-8	642336	② Plunger, Oil Pressure Relief Valve	1	1	1	1	1	1	1	1	1	1	1	1	١				
.9	634150	. Spring, Oil Pressure Relief Valve		1	1	1	1	1	1	1	1	1	1	1				3	
-9	632478	. Spring, Oil Pressure Relief Valve	1															4	٠
-10	631653	. Washer, Special, Oil Pressure Relief Valve	1	1	1	1	1	1	1	1	1	1	1	1	ŀ	ı	١_	المسا	•

FIG.	PART	QUANTITY PER ASSEMBLY
INDEX	NUMBER	12345 DESCRIPTION ABEGJKLMPRSU
27-11	642335 ②	Screw, Adjusting, Oil Pressure Relief Valve 1 1 1 1 1 1 1 1 1 1 1 1 1
-12	AN900-18	Gasket, Annular
-13	642224	Housing Oil Pressure Relief Valve
-14	MC12/IREZ	Insert Hobert Cod
-15	X 1473	Cocket Conner
-16	632762	. Nut, Lock
-17		. Plunger, Oil Pressure Relief Valve
-18	OL, 10.	Spring, Oil Pressure Relief Valve
-19		Screw, Adjusting
-20	V4.00.	Nut, Adjusting Screw
-21	02,002	Gasket, Annular
-21		Cap, Oil Pressure Relief Valve
	537229	Plunger, Oil Pressure Relief Valve
-23	531272	Plunger, Oil Pressure Relief Valve
		Spring, Oil Pressure Relief Valve
-24	537589	Spring, Oil Pressure Relief Valve
-24	538735	. Opiniq, On Freedote flores Ferre
-25 ac	AN900-10 ③ &	Gasket, Annular
	AN900-14	. Double, Miniatal
	537235	Cap, Oil Pressure Relief Valve
-26	538736 ③	
	631638	
	631478	
	AN900-14 &	Gasket, Annular
	631995	
·31	2849	. Ball, Filter By-Pass
		Spring, Filter By-Pass
		Gasket, Annular
	532432	Plug, Filter By-Pass
	539525	Gear and Bushing Assembly, Oil Pump
	539523	Bushing, Oil Pump Gear   2   2
		Gear Assembly, Oil Pump and Tachometer Orive .   1 1 1   1   1   1   1   1   1   1
		Gear Assembly, Oil Pump and Tachometer Drive . 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		. Dowel
		Gear, Bevel, Tachometer Drive
		. Gear, Bevel, Tachometer Drive
-41	***	Cover, Oil Pump, Mechanical Tach
-42		Cover, Oil Pump, Electric Tach
		. Filter, Oil
		Tube Assembly, Perforated
-45	MS20073-04-10	Bolt, Drilled, Hex Head
-46	Q9S552-06	Washer, Annular, 1/4 Inch
-47	535933	Gasket, Felt, 5/8 Inch ID
-48	Q9T116-07	[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[
-49	628129	. Body Casting, Filter
-50		Screen Assembly, Oil
-51		Gasket, Annular

<sup>\*\*\*</sup> See Figure 28 for detail parts.

① If replacing old style pump body, service with 632563A11.

② If replacing 631618 plunger or 632761 screw, it will be necessary to order both 642761 and 642335 or 642335A1 service kit. (See Service Bulletin M79-2 Rev. 1.)

<sup>3</sup> Existence of these parts indicates early style pump. If pump is serviceable, these parts must be used to replace worn parts.

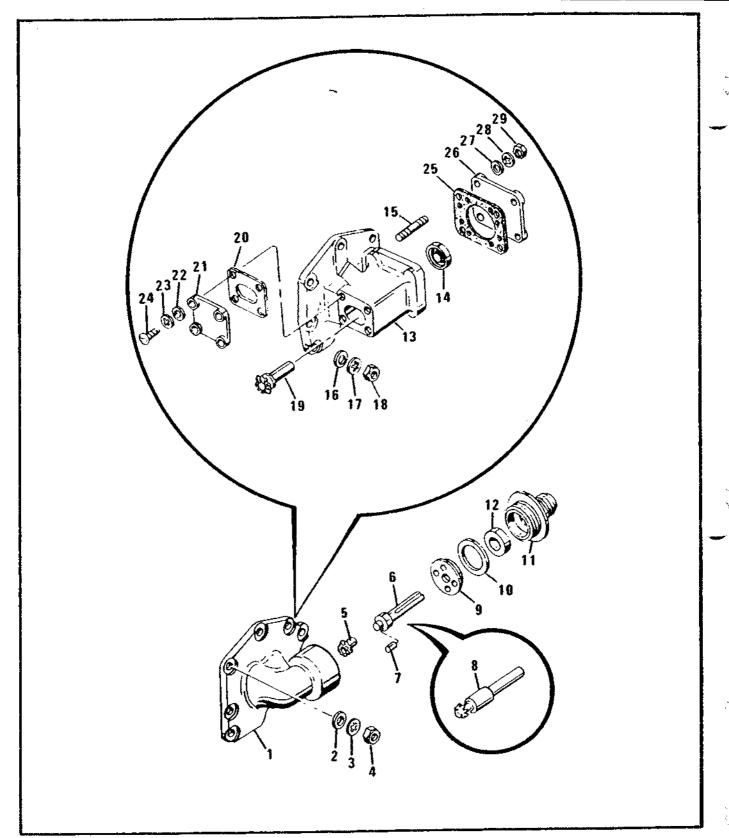


FIGURE 28 - OIL PUMP COVER AND TACHOMETER DRIVE MODELS 0-470-A,B,E,G,J,K,L,M,P,R,S,U

FIG.	PART		Τ	Q	UA	/N	TI	ΤY	<u> </u>	PE	R	Α	SS	EN	лвι	LY	
INDEX	NUMBER	12345 DESCRIPTION	A	В							_	R					ヿ
<del></del> -			1				1	丁	1	*	1	Τ-	1	_			7
28-1	625886	Cover, Oil Pump	Ι.	1			Ι'	Ι,	'		'	١.		١.			1
		ATTACHING PARTS		İ		_					١,	١,	,				
-2	20522	Washer, Plain	2			2	2	2	2		14	2	Z	2		<b> </b>	
-3	MS35338-44	Washer, Lock	2	}		2	14	2	2		12	IZ.	12	2		-	į
-4	2437	Nut, Plain Hex	2	}	į	2	Z	2	2	ļ	2	۱z.	2	2			į
		* * * *	1.				١.	,	١.		١.	١,	1	١.	} }		į
-5	535008	Gear, Bevel, Tach Drive	1	Ì			1	1	1	ĺ	1	} •	'	<b>!</b>	Į Į		
-6	535010	Shaft Assembly, Tach Drive	1!				¦		Ľ			,	l	1			ĺ
-7	535634	Dowel	11	İ	}	1	<b>'</b>	'	۱'	Ì	1	1	1	1			
-8	631650	Shaft and Gear Assembly	1 1	ĺ		} '	١,	١,	١,	ĺ	'	1;	'	i			
-9	534873	Washer, Thrust	<b> </b> '	l			;	1;	1			1'	}				ı
-10	AN900-15	& Gasket, Annular	1	ĺ		1	<b> </b>	'	'		1	1		ŀ		lf	. }
-10	632085	& Gasket, Annular	11			1	1	1	1		1	li.	1	1			Ì
-11	21208A2	Housing Assembly, Tach Drive		ļ		li	1	1	li		1	Ιi	1	li		Ì	
-12	642714	& , Seal, Oil	'	1	1	'	'	'	'	1	١.	1	1	Ιi			
-13	538789A1	Cover Assembly, Oil Pump		1	1	1		-		1		1	ĺ	l i			į
- 14	531378	& , Seal Oil		1	ľ			-		l,		1	l i	ĺί		ļ	Ì
-15	401963	† . Stud, 1/4 x 1-1/4 Inch Long		•	'		ĺ	}		[		`	ľ	1			
		ATTACHING PARTS		١.	١.				,	١,		١.	١,	1		}	-
-16	20522	Washer, Plain		1	1			1	į	13		1,	1	2			- [
-16	25164	Washer, Special		2	2			}	{	2	İ	2	2				
-17	MS35338-44	Washer, Lock		2	2				1	2		2	2	2			
-18	2437	Nut, Plain, Hex	1	2	2		Ì			2		2	2	2			
		* * *	i	١.	١.	Ì	Ì			١,	İ	1	1	١,			
-19	535908	Gear, Bevel, Tach Drive		1	1		l	1		];			1				
-20	535885	& Gasket		¦	1			-		1.	1	1.	1	] ;			
-21	535887	Cover, Tach Gear Box		1	1		Ì			}'	}	'		1			
		ATTACHING PARTS	-	-				1			}	İ	Ĺ				
-22	2471	Washer, Plain	1	4	4			}		4		1 '	4	4			
-23	22910	Washer, Lock		4	4		İ			4		4		4			
-24	20655	Screw		4	4					4		4	4	4			
		* * * *		١.		ļ	}	}	1	١.		1.		١.		Ì	
-25	MS9134-01	& Gasket			1	ſ		1		1	1	11	1.			Ш	
-26	640380	Cover, Tach Drive Pad	1	1	1					1		1	1	ı			
		ATTACHING PARTS	ļ					l						ļ			
-27	2472	Washer, Plain	1	4	4	١			}	4				4			
-28	MS35338-44	Washer, Lock		4	4	1				4		4		4			
-29	2437	Nut, Plain, Hex	1	4	4					4		4	4	4	Ì		İ
	2.107	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						İ			1	ļ			1		
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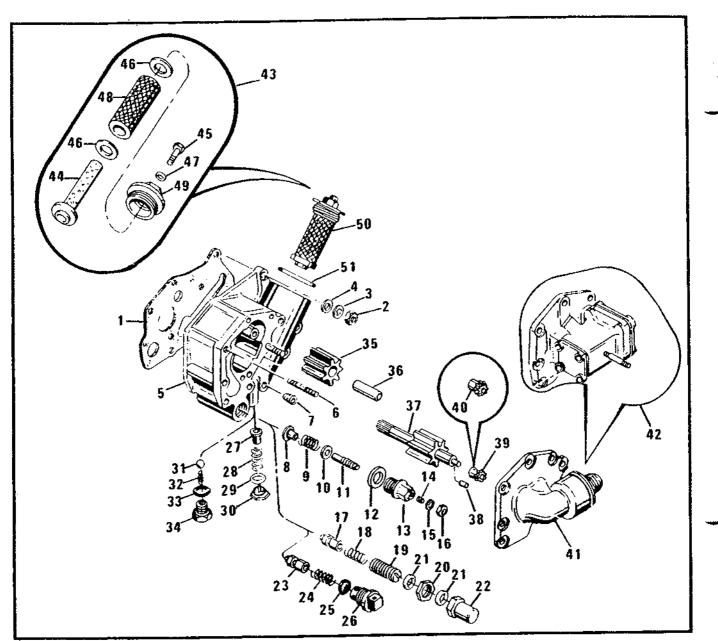


FIGURE 29 - OIL PUMP ASSEMBLY
MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

		MODELS 10-470-6,0,E,F,8,H,3,K,E,HI,H,1,1,10,0,4	٦.
FIG.	PART	QUANTITY PER ASSEMBLY	
INDEX	NUMBER	12345 DESCRIPTION CDEFGHJKLMNPRSU	4 `
29-1	538185 632563A4 632563A7 632563A16 632563A17 632563A29 632563A20	& Gasket, Oil Pump Housing	1
		ATTACHING PARTS	
-2	2437	Nut, Plain, Hex	1]
-3	MS35338-44	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
-4	20522	Washer, Plain	i i
-5	632563	① . Housing and Shaft Assembly, Oil Pump	2 <b>T</b>
-6	401963	† Stud, 1/4 x 1 Inch Long	۷ ا

FIG.	PART	T																	ΝŢ	_				-				/B			
INDEX	NUMBER	-	•	12345		D	ESC	CRI	PTI	ION	! 				(	<u>][</u>	) [		E	G	H	J.	K	L	IM.	N	P	R	S	U	灲
-7	2024		<del>-</del>	. Plug, Pip	e, 1	1/8	Inch	h NP	T						.  1	1	'	1	1	1	1	1	1	1	1	1	1	1	1	1 [	1
-8	642336	2		Discour Air	a p	Drace	cura	Reli	ief \	Jalve	D				- 11	1	Ι.	П	1	11	11	11	}	ļ ]	1	ון	1	ן ו	1	1	1
9	634150			Spring, Oil	l Pro	ressu	ure F	Relie	ef Va	alve					. [1		1	ı,	•	ij	ı	ч	ı	1	i .	1	1	1	1	1	1
-10	631653			Washer, Sp	eci	cial, I	Oil F	Press	erus	Reli	ief \	/alve			. Ji		1	ľ	, ,	ч	•	1	1	1	1	1	1	1	i	1	1
-13	642335	2	١.	Screw, Adj	just	sting,	j, Oil	l Pre	รรษเ	re Re	elief	Val	ve .			1	1		1		. (					1	1	1	1	1	1
-12	AN900-18			Gasket, An	าทน	ular									. [1	1	t t	1	1	- 1	٠,	-	1		1	l ' !	1	1	ı	1	1
-13	642224			Housing, O	)il f	Pres	ssure	e Rel	lief '	Valv	e					1			· 1	1	1	•	1	1	1	1	1	1	1	1	1
-14	MS214657			. Insert He	elic	cal C	Coil								- 1				- 1	٠,	1	1	1	1	1	1	1	1	1	1	1
-15	X1473	&		Gasket, Co	pp	per .									. [1	1	1	1 [	1	1	1	1	1	1	1	1	1	1	1	1	1
-16	632762			Nut, Lock											. [1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1
-17	627494	3		Plunger, Oi	il P	Press	sure	Reli	ief \	/alve	е.				. [1		}	1	ĺ	1	1	1	1	1	1	<b>ן</b> 1	Ì	1		ıİ	
-18	627495	3	١.	Spring, Oil	Pre	ressu	ure F	Relie	ef Va	alve					. [1			1		1	1	1	1	1	1	1	į	1		.	Ì
-19	627651	③		Screw, Adj	just	sting									. [1		İ			1	1	1	1	1	1	1	]	1			
-20	627652			Nut, Adjus	stin	ng Se	crew	٧.,							- 1		İ	ļ	}	1	1	1	1	1	1	1		1			i
-21	AN900-14 3	& (		Gasket, An	າກບ	ular					:				.  2	?	1	1		2	2	2	2	2	2	2	{	2			
-22	627650	3		Cap, Oil Pr	ress	sure	: Rei	lief \	Valv	e.					. [1	1		l	- 1	1	1	1	1	1	1	[1]		1		ıİ	١
-23	537229	③		Plunger, Oi	il P	Press	sure	Reli	ief \	Valve	е.,				. [1				- 1	1	1	1	1	1	1	1		1		ιl	
-23	538580			Plunger, Oi												1		١ĺ	` I	- [				Ì		į	1		1	1	1
-24	627458			Spring, Oil												[1	1	1	1					ļ		Ì	1		1	1	1
-25	AN900-14 ③			Gasket, An												[1		1	1	-				•	}	]	1		1	1	1
-26	538736	③		Cap, Oil Pr												1			1						_		1		1	1	1
-27	631638			Valve, By-F	Pas:	SS				. <i>.</i> .						1		ļ			- 1	1	-	1	1 '	1	]]	1	1	1	1
-28	631478			Spring, By-	·Pa:	ass V	/alve	е.,							. []	1	- 1		1	•		1		1	1		1	] ]	1	1	1
-29	AN900-14	&		Gasket, An																1	]	1	_		1	1	1	] ]	1	11	1
-30	631995	_		Pin and Plu												1			1	1	1	1	1	1	1	1	]]	] ]			!
-31	2849			Ball, Filter											· •		- 1	· i	' I	1	!	1	1	1		1	1.				!
-32	2848			Spring, Filt												1	- 1		· I	1	]	]	1	1	1	[]	!			]	!
-33		8		Gasket, An	าทบ	ular		·				· - •			- []					1	!	!	1	!	1			!!	. 1	!	!
-34	532432			Plug, Filter	r By	3y-Pa	922				···				۱] ۱			- 1				-	1		1	1	1		!	1 1	!
-35	539525			Gear and B	tust	shing	g Ass	semi	bly,	Oil I	Pun	p.			را ٠		ָן		-		- 1	1		ָן <u>י</u>	1		1	1	1	1	۱,
-36	539523			. Bushing,	Oil	il Pu	ımp	Gea	ť.					• • •	.  2	12	2	٠Į:	2	4	۷	Z	2	2	2	4	۷,	2	4	2	4
-37	538516			Gear Assem												1	ı	Ì		,	,	,	4	'	1		}	۱, ا		<b>.</b> • }	' ]
-37	538609			Gear Assem						o ta	ich I	אוזע			.  1	1			1						١,	,	,			۱, ا	, [
-38	535634			. Dowel .	: -							• •				' ' '			1	!	!	•		<b>'</b> '	1	1		1 1		1	۱ [
-39	535008			Gear, Bevel	I, I	i ach	10m(	eter	Driv	ve .	• • •			• • •	۱۱ ٔ		- 3		•	•	١	'	1		1			1		1	,
-40	535900			Gear, Bevel												1		ı	1	.	,	,	1	1	'	1	1		,	, <b>'</b>	'
-41	***			Cover, Oil I											- 1			ļ	۱ ا	•	•	1	ľ	1	1	'	,		'	, ,	۱,
-42	***			Cover, Oil I												1	•		.[	İ				'	1	}	1		1	1	¦ ∣
-43	538727			Filter, Oil .												1	- 1 '		<u>'</u>						;		1		1	1	; [
-44	Q9T116-218			. Tube Ass												1	11		;	- [				ĺ	1		,		1	; {	;
-45	MS20073-04-10	J		. Belt, Dril													, ['	ij	1	- [	ļ				1	{	,		1	3	1
-46	Q9S552-06		•	. Washer, A												1		. 1	2		ĺ				2		2		2		2
-47	535933		•	. Gasket, F												1		2   1	- 1						14	}	1,		1	1	
-48	Q9T116-07		•	. Element												11.		٠ ٤	٠,						;		;			1	
·49	628129			. Body Cas												۱,		١.	•	,	,	1	1	1	'	1	•	[1		,	
-50	534862	٨	•	Screen Asse	emi	ndiy, Jac	, VII	• • •	• • •				• •		` [ <del>]</del>	1	,	,	1	;			i		1	} `	1	1	1	1	1
-51	AN900-28	Þ	•	Gasket, An	וטמו	ulaf	• •	• • •	• • •	• • •		• • •	• • •	• • •	` <b> </b>	<b>'</b>	·	. [	•	١.	٠,	•	'	Ì .		١,		[			`[
NOTEC.															ı	1	- 1	ì	ĭ	•	'	,	1	r	•	5	•	' '	' '	'	•

- \*\*\* See Figure 30 for detail parts.
- ① If replacing old style pump body, service with 632563A11.
- ② If replacing 631618 plunger or 632761 screw, it will be necessary to order both 642336 and 642335 or 642336A1 service kit. (See Service Bulletin M78-2 Rev. 1.)
- 3 Existence of these parts indicates early style pump. If pump is serviceable, these parts must be used to replace worn parts.

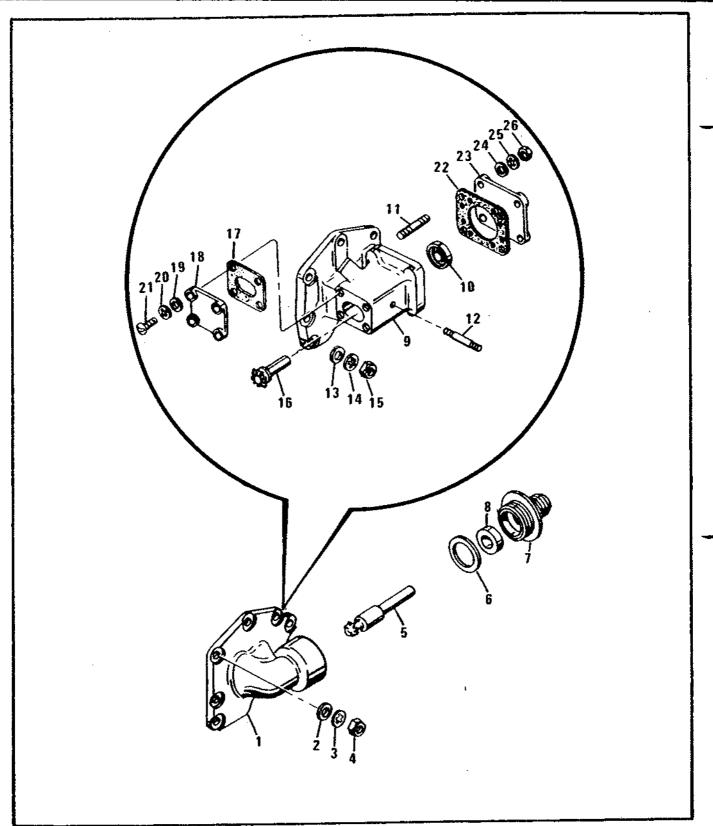


FIGURE 30 - OIL PUMP COVER AND TACHOMETER DRIVE MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

_		,			γ							_								
	FIG.	PART			I	Q	U/	٩N	TI	ΤY	·	PΕΙ	R	A.	SSI	ΕN	1BI	LY		[
	NDEX	NUMBER		12345 DESCRIPTION	ſ.	D						K		M					íΠ	ᆔ
Ľ	MUCA	HOMBEN	Д.	12345 DESCRIPTION	1	<del>                                     </del>	╃~~	<del>!                                    </del>	1	<del>† -</del> -	-	<b>∱~~</b> ~	<u> -</u> -	-	-	-		-	띡	<b>Ŭ</b>
	30-1	625886		Cover, Oil Pump	1	}	1	1	1	1	1	1		Ì	1		1	1	Ì	ļ
					İ				Ì	ļ	l	ļ							}	1
				ATTACHING PARTS	٦	1	1	١,	١,	1		1	Ì	{	], }		٦	_	1	
	-2	20522			2		2	12	ÌΖ	2	Z	١Z	ł	}	2		2	2		. !
	-3	MS35338-44		Washer, Lock	2		2	2	2	2	2	2			2			2	Í	
	-4	2437		Nut, Plain Hex	2		2	2	2	2	2	2	l	1	2		2	2	1	Ī
				. * * * *	1				ł			Ì		{					1	
	-5	631650		Shaft and Gear Assembly	1		1	1	1	1	1	1	Ì		1	•	1	1	- 1	. 1
	-6	632085	Q,	Gasket, Annular	11	1	1	1	1	1	1	1	}		1		3	1	- 1	
	·7	21208A2	G	Housing Assembly, Tach Drive	li.	1		1	1	1	1	1	Ì	}	1			1	j	
		642714	0		li					i				į	1			1	- ]	
	-8		æ	Seal, Oil	ľ	1	١,	'	Ι'	}'	'	ľ	1	į		1	•	١,	1	1
	-9	538789A1		Cover Assembly, Gil Pump	1	'	i	i	1			İ	•	],	Ιİ	'			'	۱'۱
	.9	628859		Cover Assembly, Oil Pump	ı							ł	l.			_		'	. !	.
	-10	531378	&	. Seal, Oil	1	1					1	Ì	1	] [	ı	1			٠,	1
	-11	401963	t	. Stud, 1/4 x 1·1/4 Inch Long	1	4						ļ	[4	4	l	4			4	4
	-12	401816		. Stud, 1/4 x 1-11/16 Inch Long			j		ł			1	}	[3					Ì	ŀ
					1	ļ			1	]		}	ļ	i		ı		١.	ł	. (
				ATTACHING PARTS		1	ĺ	Į	}	1			1	1		٦.		Į	٠,	٦,
	-13	20522		Washer, Plain	1	2	ļ			ĺ			2	2		2				2
	-14	MS35338-44		Washer, Lock		2							2	2		2				2
	-15	2437		Nut, Plain Hex		2			į	i			2	2		2		ļ	2	2
				* * * *			1		i	}									-	- 1
	-16	535908		Gear, Bevel, Tach Drive		1	ļ				{		1	1	ļ	1		1	1	1
	-17	535885	ጼ	Gasket		1			1		ļ		1	1		1		- {	1 l	1
	·18	535887	u	Cover, Tach Gear Box		1	ļ	ļ				ĺ	1	lı l		1		ļ	1	1
	- 10	333007			j	ľ	ļ				}		]					- }	١.	İ
				ATTACHING PARTS	-				İ		•		]		Ì		{	}	-	ļ
	-19	2471		Washer, Plain		4		ſ			l			4		4		1		4
	-20	22910		Washer, Lock	1	4	ł	ļ				j	4	4		4	ĺ	ĺ	4	4
_	-21	20655		Screw		4		1			ļ	}	4	4		4		ı	4	4
	4	20000		* * *	Į.			]			}		Í		ij		-		ĺ	- [
	-22	MS9134-01	Ω.	Gasket	l	1						ļ	1	1		1			1	1 I
			α			i	ļ	1				ł	ι.	i		;	,	,		il
	-23	640380		Cover, Tach Drive Pad		Ι'	}	İ			ļ		<b>'</b>		Ì	١.	1	- 1	٠ ا	'l
				ATTACHING PARTS		l	l		ĺ		ļ							ļ	-	
	-24	531547		Washer, Plain	ł	4	ļ	Ì				1	4	4	1	4		1	4	4
	-25	MS35338-44		Washer, Lock		4		Ì	1		[	ł	4	4	1	4		ļ	4	4
	-26	2437		Nut, Plain Hex		4		}			Ì		4			4				4
	-20	2431		Nat, Flant Sex	1	1	ļ						Ι'						.	1
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					1		{	[						İ						- [
					1			1			ĺ			ĺ				Į	-	}
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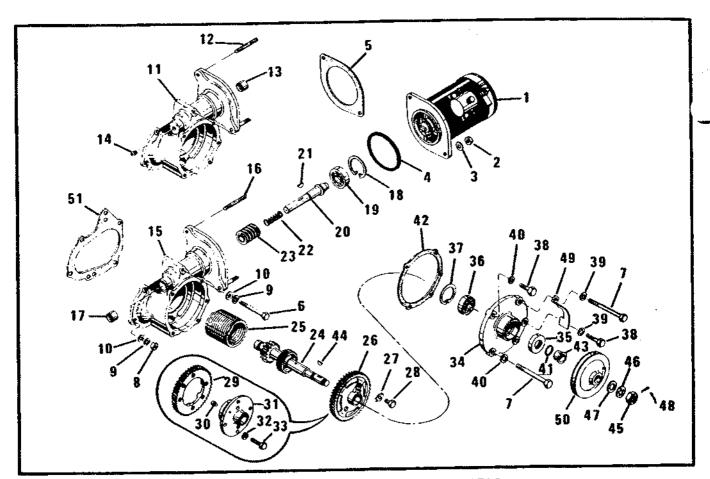


FIGURE 31 - STARTER AND STARTER ADAPTER MODELS 0-470-A,B,E,G,J,K,L,M,P,R,S,U

FIG.	PART	$\neg \top$						(	ĮŪ,	ΑL	T	1	PEF	₹	AS	SSI	EM	BL	Υ	_	
INDEX	NUMBER		12345	DESCRIPTION	<u> </u>		Ā	8	E	G .	I	L	М	Ρ	R	S	U	4		<u> </u>	
31.1	626960	0	Starter, 12 Volt	t			1							1						ļ	
-1	627841	0	Starter, 12 Volt	t				1													ĺ
-1	631261	0	Starter, 12 Voit	t			1			.1	. I.				١, ١			ı		1	
-1	628482	①	Starter, 12 Volt	t	<i></i>					I.	• [	1			<b>!</b>			- [			
-1	634592	0	Starter, 12 Volt	t						· ł	1					1		ı	-		
				ATTACHIN	G PARTS					Í		}						- }			
-2	2441		Nut Hey	ATTACHIN			2	2	2	2	2 2	!  2	2	2	2	2	2	Į	l		
.3	539058		Washer Plain				2	2	2	2	2   2	2	2	2	2	2	2	- {	1		
٠,	303030		***************************************	* * :	f #		•	1	, ,		- 1	ı	1 1	!			ιŧ	- [		1	Posta
-4	MS9021-038	ጸ	O-Ring					1	1	1	1 [ '	1	1		1	1	1	ļ		İ	
-5	534316	8	Gasket, Starter				- [1				ı	ļ		1	'				ļ	ļ	
-6	537742	•	Bolt. 5/16 - 18 :	x 2-13/16 Inch Lo	ng		11					1						- 1		1	
·ž	538999		Bolt. 5/16 - 18	x 3-5/8 Inch Long			3	3	3	3	3	3 3	3	3	3	3	2	J	-		1
.7	537750							ĺ	ļ	ļļ	-	Ì				_	1	- [		ļ	ļ. ~
-8	2439		Nut. Hex				2	2	2	2	2	?  2	2	2	2	2	2	1			
-9	MS35338-45		Washer, Lock .		. <b></b> .		4	4	4	4	4 4	1 4	4	4	4	5	5		ļ	-	-
-10	2473		Washer, Plain .				4	4	4	4	4	1 4	4	4	4	5	5				
	537743A2		Adapter Assemi	ibly, Starter, Comp	lete		1	1	{			1	-	ĺ							Ì
	635050A4			bly, Starter, Comp				1	1	1	1	i   1	1	1	1	1	1	Į		1	
-11	537743		. Adapter Asset	mbly, Starter		<i>.</i>	1				Ì				l				ļ	Ì	
-12	401965	ŧ	Stud. 3/8 x	1-13/32 Inch Lon	g		2					}	į	Ì					[		
-13	534969		Bearing Ne	eedle	- 		[1		]		Ì					ĺ					1
-14	AN932-2		Plua Pine	1/8 NPT	. <i>.</i>		1				1		ĺ					į		_	-

FIG.	PART			Ωŧ	JΑ	N	ΓľΊ	Υ	P	EF	3	AS	SSE	EΜ	BLY	 {	
INDEX	NUMBER	12345 DESCRIPTION	<u></u>	В				к					s		7	ТТ	$\neg$
23.15		. Adapter Assembly, Starter	•	1	-	_		1		$\overline{}$	1		1		~-	†	$\dashv$
31-15	635050A1	t Stud, 3/8 x 1-17/32 Inch Long			2	2	2	2	2	2	2	2	2	2			ı
-16	402127 641368	Bearing, Needle		2	1	1	1	2	1	1	1	1	1	1			. 1
-17	502287	Ring, Internal Retaining		i	1	1	3	1	1	1	1	1	1	1			ŀ
-18 -19	X13041	Bearing, Ball	1					1					1	1			
-20	631252	Shaft, Worm Drive			1	1	1	1	1	1	1	1	1	1			
-20	534982	. Shaft, Worm Drive	1									. ]	l	}	}	}	1
·20 ·21	MS35756-8	. Key, Woodruff	1	1	1	1	1	1	1	1	1	1	1	1	1		
-22	536552	. Spring, Starter	1					1									
-23	539805	Gear, Starter Worm		1	1	1	1	1	1	1	1	1	1	1	.		1
-23	534916	Gear, Starter Worm	1			ĺ			'					l		1	
-23	539568	. Shaftgear, Starter	1	1	1	1	1	ļ i	1	1	1	1	1	1			
-24	534976A1	. Shaftgear, Starter	1		l		ĺ			<u> </u>							
-25	539800	† . Spring, Clutch		1	1	1	1	1	1	1	1	1	1	1		ļ	
-25	537341	t . Spring, Clutch	1						ļ						, }		
-26	539785	. Gear, Starter Worm Wheel		1				1									
-27	501867	. Washer, Tab				1	1	1	1	1			1	1			
-28	536566	. Screw, 1/4 - 20 x 11/32 Inch Long	1	1	1				i	î	1	1					[
·28	633845	Screw, 1/4 - 20 x 13/32 Inch Long			-	1	1	1	1				1	1		ł	
-29	534934	. Gear, Starter Worm Wheel	1												1		
-30	534900	. Dowel, Stepped	2	ĺ		}			ŀ				j	İ			
-31	535425	. Drum, Starter Clutch	[1			1		{	[	ļ							
-32	20522	. Washer, Plain	4	İ	l		İ		Ì	ĺ	l						
-33	22537	. Screw, Hex Head, 1/4 - 20 x 5/8 Inch Long	4		ļ		Į										
-34	537738A1	. Cover Assembly, Starter Adapter	1	1	1	1	1	1	1	1	1	1	1				
-35	534938	& Seal, Oil			1	1		1	1	1	1	1		1		}	
-36	534685	Bearing, Ball	1							1 -		I -	ı. ı	1		Ì	
-37	534715	Ring, Internal Retaining	1	1	1	1	1	1	1	1	1	1	1	ן י	1		
		ATTACHING PARTS					ļ			1		1		ļ			
-38	537750	. Bolt, 5/16 - 18 x 1-1/8 Inch Long	ı	2	2	2	2	2	2	2	2	2	2	2			
-38	535651	. Bolt, 1/4 - 20 x 1 Inch Long	2				1							1			
-39	MS35338-45	. Washer, Lock			2	2	2	2	2	2	2	2	2	2	1		1
-39	MS35338-44	Wacher Lock	-12			L		ļ_			L	_					
-40	2473	. Washer, Lock	[2	2	2	2	2	2	2	2	2	2	2	2			
		* * * *	ı	1	ł				1	1	l	1	ļ	ļ			
-41	AN123862	& . Seal, O-Ring	- 1	11		[]		1	[]	!	!			1	1		
-42	537749	& . Gasket, Cover			1.	[]	!	1		1	¦		;				
-43	534980	. Sleeve, Bearing Retaining	1					i		i		•	ľ	ł		1	
. 44	MS35756-8	. Key, Woodruff	1					ľ									} }
/ -45	AN316-9R	. Nut, Check	١,	•	'		'	'	'	\'	'	'	١,	١.			
-45	AN320-9	. Nut, Check	1,	,	1	1,	١,	1	],	1	1	1	1	1			
-46	13XX299	. Washer, Lock	1	[,	1,	1	1,	1	1,	1	1	1					1
-47	AN960C916	. Washer, Plain	- 1	ŧ	1'		1	'	'	'	['	'	'	'			
-48	AN381-3-18	. Pin, Cotter		1	1	1	1	1	1	1	1	1	1	1			}
-49	628760	Indicator, Engine Timing		ľ	1	1	1	\i	1	li	1	li					
-50	534775	① Sheave, Generator Drive	ľi	i	1	li	li	1	1	1	1	1	1	1		1	1
-51	537745	& Gasket, Adapter	Ι,	1	'	1	Ι΄	Ţ	Ι.	ľ	1		•				
					ļ	İ										}	
											ļ			-			1
NOT	<b>r</b> .						-	1	Ì								
NOTI			1							ļ							
<b>~</b> ⊙	See Section VI f	or Specification Applications.								ĺ		ļ	1			İ	ĺ

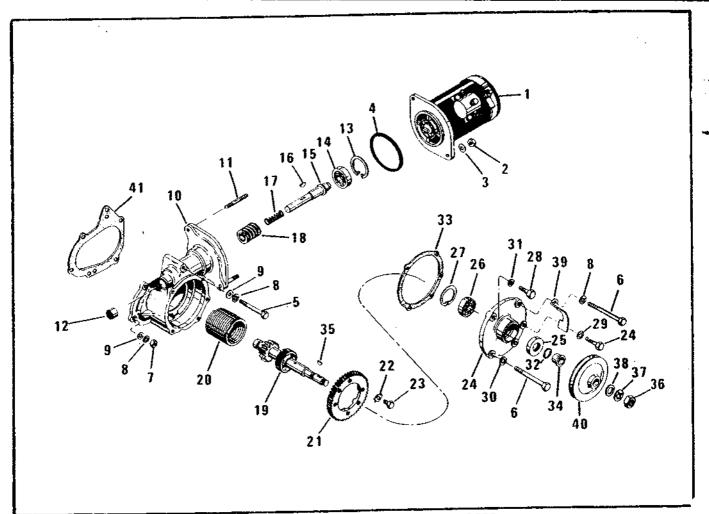


FIGURE 32 - STARTER AND STARTER ADAPTER MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

FIG.	PART		T	Q	U/	/N	TI	ΤY	F	>E!	R	A	SS	ΕŅ	/BI	LΥ		
INDEX	NUMBER	12345 DESCRIPTION	C	D	Ε	F	G	H	J	K	L	М	N	P	R	S	Ü	V]
32-1	637847	① Starter, 24 Volt	.	1							1	1		1			1	1
-1	631261	① Starter, 12 Volt	.	ł			1	1			Į		. '		1			
-1	634592	① Starter, 12 Volt	. [1	{	1	1	ļ	ļ		1	1		1			1		- 1
-1	628482	① Starter, 12 Volt	.	}				1	1								ı İ	- 1
		ATTACHING PARTS	-  -			ĺ				l	ļ							
.2	2441	Nut Hex	.  2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.3	539058	Nut, Hex	.  2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2 [
Ü	300000	* * * *	-		İ	l	l.	L							١.			. [
-4	MS9021-038	& O-Ring	.  1	1	1	1	1	3	1		11	1	]	1	<u>!</u>	!!	!!	!
-5	537742	Bolt, 5/16 - 18 x 2-13/16 Inch Long	- 1 6	1	1	[]	1	[]	1	13	1	1	1	1		ľ		.
-6	538999	Bott, 5/16 - 18 x 3-5/8 Inch Long	.  3	3	3	3	3	13	3	3	3	3	3	3	,	3	3	3
-7	2439	Nut, Hex	.  2	2	2	2	2	2	2				2		4	Z	2	4
-8	MS35338-45	Washer, Lock	.  4	4	4			4			, -							4 1
9	2473	Washer, Plain	.  4	4	4	4	4	4	4	4	4	3	3	4	14	4	4	4
-9	2473	Washer, Plain	٠	١.	١.	1.	١.				١.	!	١,	١,	,		١, ١	, l
	635050A4	Adapter Assembly, Starter, Complete	. []	1	11	1	11	1	!!	!	!!	!	¦		;	;		. [
-10	635050A1	. Adapter Assembly, Starter		1							1	ļ	2		1	1		.,
-11	402127	1 Stud, 3/8 x 1-17/32 Inch Long	.  2	2	2	2	12	2	12	Z	2	Z	12	14	14	1	1	:
-12	641368	Bearing, Needle	٠ إ ١	- 1'	1'	1		¦			;	1	;		;	¦	],	75
-13	502287	. Ring, Internal Retaining	. [1	11	11	1	ļŧ	į I	1	ļI	1	Ţ	l i	ļ	1.	i i	ļ	

ſ	FIG.	PART		T		U.	N/	TI	ΤY	_ <u>-</u>	PE	R	Α	SS	E۸	1B	Y		٦
	INDEX	NUMBER	12345 DESCRIPTION	<u> </u>		E			Ìн	<b>,</b>	Īκ			-	-	R			$\forall$
ι	32-14	X13041	. Bearing, Ball		1	1	1	1	1	1	1	1	1	1	1	7	1	4	<del>'</del>
	-15	631252	Shaft, Worm Drive	1.		1	i	1	ĺ	1	1	i	1	1	i	1	i	i	il
	.16	MS35756-8	. Key, Woodruff			1			1	1	1	1	1	1	1	1	il	i	1
	-17	536552	Spring, Starter	1	1		1		1	1	1	1	1	1	1	1	1	1	i
	-18	539805	Gear, Starter Worm	1	1		1		1		1	1	1	1	1	1	1	1	1
	-19	539568	. Shaftgear, Starter	1	1		1		1		1	1	1	1	1	1	1	1	1
	-20	539800	† . Spring, Clutch	1	1		1		1	1 '	1	1	1	1	1	1	1	1	1
	-21	539785	. Gear, Starter Worm Wheel	1		1			1		1	1	1	1	1	1	1	1	1
	-22	501867	Washer, Tab	1		1			1		1	1	1	1	1	1	1	1	1
	·23	633845	. Screw, 1/4 - 20 x 13/32 Inch Long	1		1			1		1	1	1	1	1	1	1	1	1
	-24	537738A1	. Cover Assembly, Starter Adapter	1		1			1		1	1	1 -	1	1	1	1	1	1
	-25	534938	& Seal, Oil				1		1		1	1	1	1	1	1	1	1	1
	-26	534685	Bearing, Ball	1	1		1	1	1		1	1	1	1	1	1	1	1	1
	-27	534715	Ring, Internal Retaining	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			ATTACHING PARTS			}		}			ļ			İ					
	-28	537750	. Bolt, 5/16 - 18 x 1-1/8 Inch Long	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2
	-29	MS35338-45	. Washer, Lock	2	2	2	2	2	2	2	2 2 2 1	2	2	2	2	2	2	2	2
	-30	2473	. Washer, Plain	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	-31	501868	. Washer, Tab	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1
			* * * *	١.				Ĺ		ĺ_				١.					
	-32	AN123862	& , Seal-O-Ring			1			1			1		1	1	1	1	1	!
	-33	537749	a : ousket, outer :	1		1					1		1				1	!	!
	-34	534980	. Sleeve, Bearing Retaining										1					!	1
	-35	MS35756-8	. Key, Woodruff								1		1			1	' }	1	1
	-36	AN316-9R	. Nut, Check		ľ	[,				!	;	1				1		1	!
	-37 -38	13XX299 AN960C916	. Washer, Lock		1	ľ	1	1	ļ',	1	;	ľ	1	1	1	1	' [	;	-
	-39	628760	• • • • • • • • • • • • • • • • • • • •	i									1					- i	-
	-40												1			1		١.	١.
	-40	628319	Sheave, Generator Drive	İ.		ľ	,	ļ.	ľ	ľ		ľ				'		1	1
	-41	537745	& Gasket, Adapter	1	1	1	1	1	î	1	1	1	1	1	1	1	1	1	1
					Ì						ļ								-
								}											
					1			}									1		1
				l	1					{				İ				- {	1
				İ			!											-	
				ļ														-	-
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_	NOTE	E •			ĺ										ļ			}	
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	0	266 26ction At a	for Specification-Applications.	ı	i	i	۱		į		Į				i !	١	ļ	1	ļ

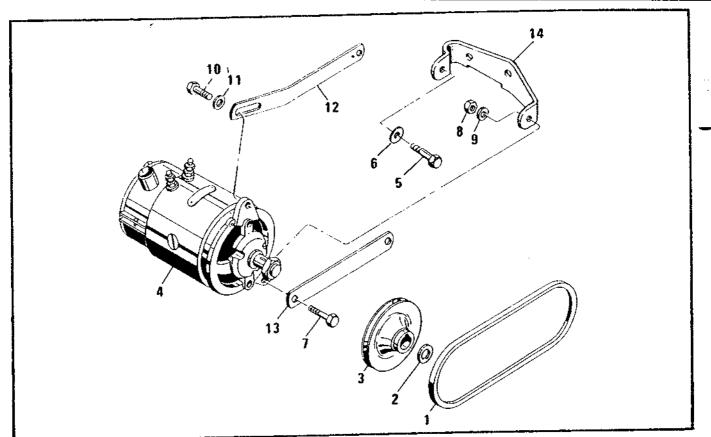


FIGURE 33 - GENERATOR AND MOUNTING BRACKETS MODELS 0-470-A,B,E,G,J,K,M,P,R

FIG.	PART	T					Q	JΑ	N.				EF				EM	BL	<u>.Y</u>	_	15
INDEX	NUMBER		12345	DESCRIPTION		Α	В	E	G	J	K	L	M	P	R	S	υ	_	4	-	1
33-1	539547-31.19		Belt, Generator	Drive		1	1	1	1	1 1	1	1	1	1	1				-	-	<b>-</b> 7
-2	535541		Spacer, Sheave					'	1	'	'	1	,	•	'			ļ	١		
-2	536213		Spacer, Sheave			l.	ן י			.			1		,					-	
-3	534787	0	Sheave, Genera	tor Drive		[]	<b>! !</b>	•	1	1	•	•	,	'	<b>,</b>				1		
-4	535928	0	Generator, 24	Velt		1							•					1	- 1	- [	
-4	627272	(1)	Generator, 12	Volt, 50 Amp			]		1					1		Į	1 1			ļ	1
-4	627274	Ō	Generator, 24	Volt, 25 Amp		_	}1	ا ۔ ا									ŀl		Ì		-
-4	627273	Ō	Generator, 12	Volt, 35 Amp		1	1	1		1	•		}		<b>!                                    </b>				- 1	1	
		_		ATTACHING	PARTS	1			ļ		Ì '						ļį				1
-5	AN5-10A		Rolt			1	1	1	1	1	1	1	1	1		ļ	1		- {	- }	
·6	2473		Washer Plain	5/16 Inch		1			4 -		•		1	•			1		-	į	1
.0 .7	AN 101218		Rolt			Ì	1	1	1	1	1	1	1	1	1	1					3
.7	AN101217		Rolt			1		Ì	ļ	1	]	]		Į	l		li		į		1
-8	2439		Nut Plain He	<b>C</b>		2	2	2	2	2	2	2	2	2	2	ł	, '				-
.g	401506		Washer Plain	21/64 Inch		2	2	2	2	2	2	2	2	2	2			Ιĺ	-	-	Ì
-10	AN75A6		Rolt			ļΙ	1	1	1	1	1	1	1	1	1				l	j	-
-10	537539		Washer Plain			1	2	2	2	2	2	2	2	2	2						
.11	337333		11031121, 110011	* * *		Į							Ì			ļ			ļ	ļ	
-12	538346	1	Arm Generate	or Belt Adjusting			ľ		1	İ		ļ		1						Į	-
-13	538070	ŏ	Arm Generate	or Belt Adjusting		1	1	1		1	1	1	1		1	İ	1	ll		1	
-13	538069	ŏ	Bracket, Gene	rator Support		1				1				1	1						
-14	539579	ര്	Bracket, Gener	rator Mounting		1	1	1	1	1	1	1	1	[1	1						İ
• •	5500.0	_		•		l						l								-	
	OTE.												}	}				ļ		1	}
	OTE:											-	1								<i>,</i>
	See Section	۷H	or Specification	Applications.				1		ĺ	ļ	1		1		1	1			_	

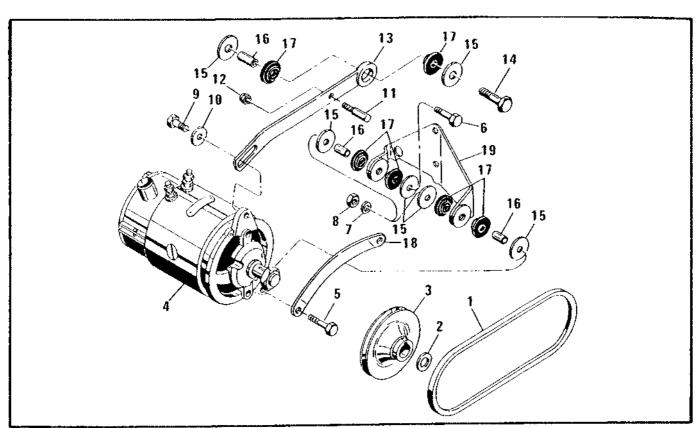


FIGURE 34 - GENERATOR AND MOUNTING BRACKETS MODELS 10-470-C,D,E,F,G,H,J,K,L,N,P,R,S

FIG.	PART	7										Q	U/		T1	ΓY		ÈΙ	 R	Α:	SS	ΕN	181	LY	
INDEX	NUMBER		12345		DESCR	IPTIC	<u>N</u>				C	D				H		K							ŰV
34-1	539547-31.19		Belt, Generate	or D	Orive						1			1		1	1	1	1		1		1	1	
-2	536213		Washer									1						1 '	1		1		1	1	
.3	627377	①		rator	r Drive						1	1	-	1	3	i .	1	1	1	i l	- 1	1	1	1	
-4	627272	①	Generator, 12	Vo	olt, 50 Ai	mp					1		1	1		1	_				1			1	
-4	627273	0	Generator, 12	Vo	olt, 35 A	mp						l	1		1		1	1	)	{			1		
-4	627274	①	Generator, 24	Vo	olt, 25 A	mp						1						İ							
-4	630686	1	Generator, 24	Vo	olt, 25 A	m <b>p</b>					ļ								1						
					AT.	TACHI	NG PA	ARTS			ļ		İ												
.5	AN5-16A		Bolt		. <i></i> .						1.	1				1	1	1	1			1		1	
-6	AN5-15A		Bolt								1	1	1	1	1	1	ı •	Ι'	1			1		1	
-7	2473		Washer, Plain								1	1	1	1	1	1			1			1		1	
-8	2439		Nut, Plain, He								2	2	2	2	2	2	2		2		2	2		2	
-9	AN75A6		Bolt							- •			1	1	1	1	1		1			1	1 ' 1	1	
-10	537539		Washer, Speci								1	1	1	3	1	1	1	1	1		1	1	1	1	}
							* *									١.			١.						
-11	627673		Idler, Kiss								1	1						! -	1			1		1	
-12	22661	_	Nut, Elastic S	top						- •	1	1			1	1	Į.	1	1			1	I ' I		
-13	627276	$\Theta$	Arm, Generat	or B	Belt Adjı	ısting					1	1	1		1	1	1	1	1		1	1	٠ ·	!	
-14	AN75A15		Bolt								լլ		1		1	1	-	1	1		1	1		1	
-15	627279		Washer, Speci	al .										6					6			6		6	
-16	627181		Bushing						• • • •		3		3			3			3			3		3	
-17	627282		Bushing, Rubi	ber							١	6	6	ī	6		6	6	6			6	þ	_	<b>,</b>
-17	630519	_	Bushing, Rubl	ber							6			6		6				1	6			6	
-18	627068	0	Bracket, Gene	erato	or Suppo	ort					1	1	[1	3	1	1	] }	1	1		1	]	1	ļ	
-19	627277	0	Bracket, Gene	rate	or Moun	ting .						1				}_			1			1			
-19	627690	0	Bracket, Gene	erato	or Moun	ting .					11	ļ	1	1	1	1	ļ 1	1	1	İ	ļ1	ļ	1	H	<b>}</b>
	NOTE:																								

① See Section VI for Specification Applications.

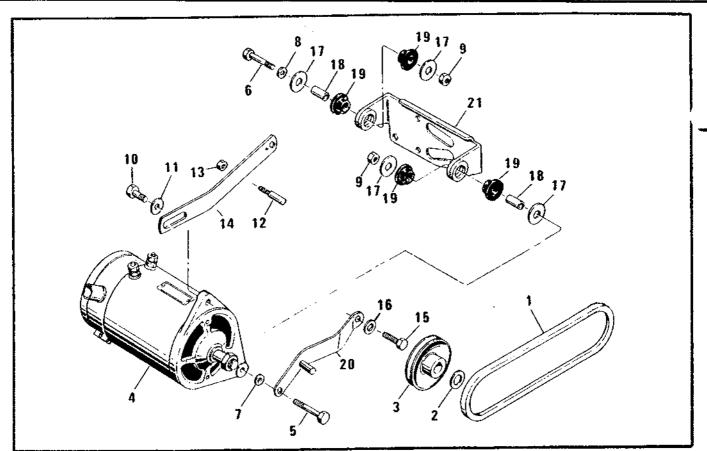


FIGURE 35 - GENERATOR AND MOUNTING BRACKETS
MODEL 10-470-M

		3,1002210 110	_											_					<b>-</b>
FIG.	PART		١		Q	UA	N	Tľ	ΤY	F	EF	3	AS	SI	EMI	BL	Υ.		Ì
INDEX	NUMBER	12345 DESCRIPTION	_	C	D	E	F	G	H	J	K	L	MI	ग	P	R	<u>s</u>	<u>ט</u>	į
35-1	539547-32.00	Belt, Generator Drive	. {	Ì		1						ļ	1	1	1			1	<b>T</b>
-2	536213	Washer	٠١				ł			[ ]			1	1		1	-1		ı
.3	627377	① Sheave, Generator Drive				Į		1	1				1			Į	ĺ	-	
-4	629417	1 Generator, 24 Volt, 50 Amp	. [			ĺ		1			}		1	ĺ	- 1	-	-	1	1
		ATTACHING PARTS	ı			ļ	ĺ							١	- 1				-
-5	AN5-17A	Bolt	.						Ì			ļ		1		ł		- [	
-6	AN5-15A	Bolt				ļ		l	Ì							-			
.7	2555	Washer, Plain, 5/16	.			1							1		į				
.8	2473	Washer, Plain, 5/16	.							1			11	ŀ	-	ĺ	- 1		l
-9	2439	Nut, Plain, Hex, 5/16	.						ļ			ļ	[2]						
-10	AN75A6	Bolt			Į								11	Į	- 1	Ì	ı	-	
-11	537539	Washer, Plain, 11/32	.										1			- [	- [	-	\ \
		* * * *	Į			ļ		1		1	} '	1		1	1	-1	- 1	-	
-12	627673-2	Idler, Kiss						}		1		ĺ		١	j	1		ı	
-13	22661	Nut, Elastic Stop, 1/4							ŀ		Ì			١		ŀ	J	Ì	1
-14	629825	Arm, Generator Belt Adjusting										ŀ		ł		Į	Ì	-	1
-15	AN75A10	Bolt	L						ĺ					١		į	1	-	
-16	MS35338-45	Washer, Lock				ı									İ	Í		-	
-17	627279	Washer, Special				1		1	1				4		Ì	Ì	-		
∙18	627281	Bushing											[2]		- 1	Į	ļ	-	
-19	630519	Bushing, Rubber							1		1		4			Į	1	- }	1
-20	630039	Bracket Assembly, Generator Support				1			ļ			ĺ	1	Í	1	ļ	.		İ
-21	628004	Bracket, Generator Mounting	.				1			1		1	1		.		{		7
	NOTE:					1	ŀ										-		, i
	① See See	ction VI for Specification Applications.	ļ	! !	ł	I	ł	İ	1	!	j	1	1		•	ļ	İ	,	_ ~

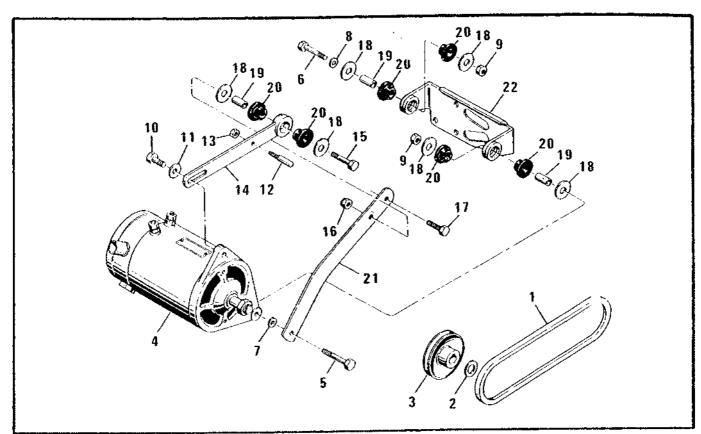


FIGURE 36 - GENERATOR AND MOUNTING BRACKETS MODELS 10-470-U,V

FIG.	PART	T		Τ	Q	UA	W.	TI	ΓY	Р	EF	₹	A۶	SSE	ивi	Y.		
INDEX	NUMBER		12345 DESCRIPTION	C	D	E	F	G	H	J	ĸ	L.	M	N P	R	<u>s</u> [	U	V
36-1	539547-30.00	····	Belt, Generator Drive	Ì			ļ	<u> </u>				-	Ì				1	1
-2	536213		Washer		1			1			- 1		- }			- {	1	1
-3	628005	0		1			1		l				ĺ	-		i	1	1
-4	629417	0	Generator, 24 Volt, 50 Amp				ļ										1	1
			ATTACHING PARTS				ļ						}			ļ	_	
-5	AN5-17A		Bolt	ı				İ					ı				1	!
-6	AN75-16		Bolt				1	i			. 1			-			1	!
.7	2555		Washer, Plain, 5/16			1											1	
-8	2473		Washer, Plain, 5/16		ļ											1	ì	1
-9	2439		Nut, Plain, Hex		[			ļ									2	2
-10	AN75A6		Bolt		}								ļ	1		- 1	1	! ]
-11	537539		Washer, Plain, 11/32	1	1				Į							ŀ	1	'
			* * * *	1		1			-	Ì				}				١, ١
-12	627673		Idler, Kiss	Į			ł			'	1	}			]	į	1	<u>'</u>
-13	22661		Nut, Elastic Stop, 1/4	1	ļ		1	١		}			i			Ì	1	
-14	628580	1	Arm, Generator Belt Adjusting			1		-		}		li					1	,
-15	538607		Bolt, 5/16 x 1-15/32 Inch Long		1		ĺ									ļļ	!	' '
-16	21213		Nut, Elastic Stop						ļ								1	
-17	AN75A10		Bolt														1	
-18	627279		Washer, Special, 21/64			-		ł	1				·		l			6
-19	627281		Bushing						1		ĺ		ļ				3	3
-20	630519	_	Bushing, Rubber		Ì							}					6	6
-21	628583	0	D. C. C. C. C. C. C. C. C. C. C. C. C. C.		ĺ	ļ				İ								1
-22	628004	0	Bracket, Generator Mounting	}				}									1	'
ı	NOTE:			١	ļ		ļ				ļ	İ	Ì			ļ	1	i

① See Section VI for Specification Applications.

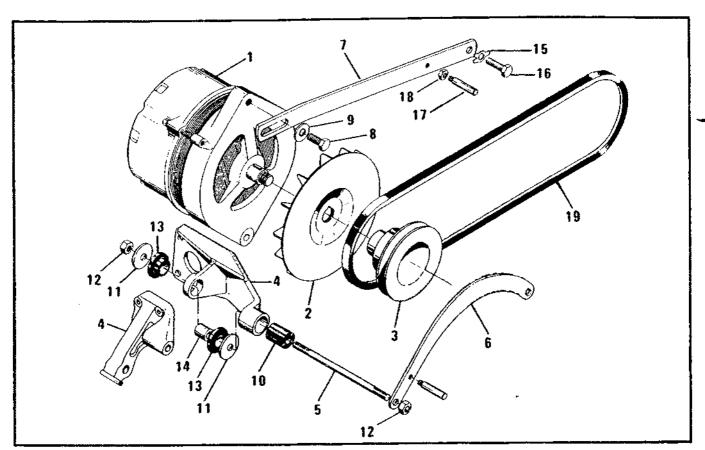


FIGURE 37 - ALTERNATOR (OPTIONAL EQUIPMENT)
ALL MODELS

FIG.	PART	QUANTITY PER ASSEMBLY	-`
INDEX	NUMBER	12345 DESCRIPTION ALL MODELS	) 
37- 1	631111	Alternator	
-2	631094	Fan, Alternator	
-3	630985	Sheave, Alternator Oriven	
-4	631000	Bracket Assembly	
-4	634673	Bracket, Engine Mount and Alternator	
.5	630989	Shaft, Alternator Mount	
-6	631200	Bracket Assembly, Alternator Support, Lower         1	
-7	632312	Bracket, Alternator Adjusting Arm, Upper	
-8	628730	Screw, Bracket at Alternator	<b>H</b> I .
-9	537539	Washer, Bracket at Alternator	
-10	630988	Bushing, Rubber, Lower Support	1 1
-11	633062	Washer, Lower Support	
-12	2439	Nut, Plain	
-13	630519	Bushing, Rubber	}
-14	627281	Bushing	11
-15	501868	Washer, Tab	1 1/2
-16	537750	Screw	
-17	627673-2	Idler, Kiss	
-18	22661	Nut, Elastic Stop	
-19	539547-31.19	Belt	
NO	TES:		
	Optional for all	0-470/IO-470 Models.	,,,,
	•	for customer specification.	·

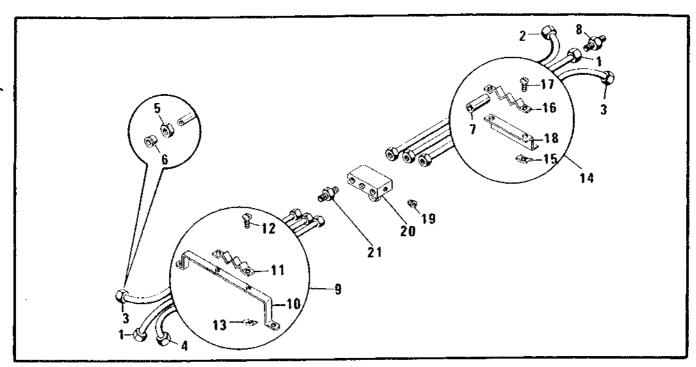


FIGURE 38 - PRIMING SYSTEM MODELS 0-470-A,B,E,G,J,K,L,M,P

FIG.	PART	QUANTITY PER ASSEMBLY
INDEX	NUMBER	12345 DESCRIPTION ABEGJKLMPRSU
38-	536486	Priming System Assembly
	EQ5880	① Priming System Assembly        op       op       op op op op op       op op op op op op op op op op op op op o
· ·1	532685	Tube Assembly, Primer No. 3, 4
-2	532686	. Tube Assembly, Primer, No. 5
-3	532687	Tube Assembly, Primer, No. 1, 6
-4	536485	. Tube Assembly, Primer, No. 2
-5	AN805-2	. Nut, Union
-6	20720	Cone, Union
-7	21512	. Nut, Union
-8	AN4022-1	. Nipple, Priming System
-9	532943	Clamp Assembly, 2-4-6 Side
-10	532944	Resolvet Primar Lings IIII
-11	532945	. Clamp, Primer Lines
		ATTACHING PARTS
-12	AN530-10-6	Screw, Tapping
-13	532362	. Screw, Tapping
-14	532946	. Clamp, Assembly, 1-3-5 Side
-15	532947	Bracket, Primer Lines
-16	532945	. Clamp, Assembly, 1-3-5 Side
		ATTACHING DARTS
-17	AN530-10-6	Screw, Tapping
-18	532362	Nut Speed
		*****
-19	2024	Plug, Pipe       1
-20	AN780-2	Nipple, Union, Primer Distributor
-21	539520	Distributor, Primer
-21	532676	Distributor, Primer
NO	TE:	

<sup>1)</sup> This priming system is optional on these models.

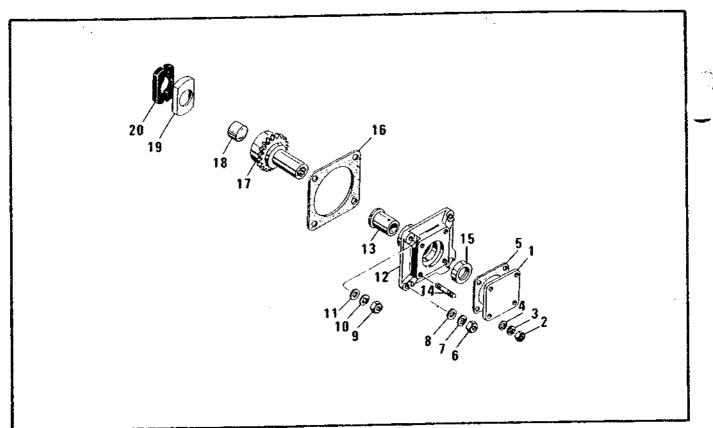


FIGURE 39 - MAGNETO AND ACCESSORY DRIVES MODELS 0-47-A,B,C,E,G,J,K,L,M,P,R,S,U

FIG.	PART	1			ı				TI		_						<u>BLY</u>	
NDEX	NUMBER	}	12345	DESCRIPTION	A	В	E	G	J	K	L	М	Р	R	<u>s</u>	U	$\Box$	
39-1	640380		Cover, Access	sory Drive	. 2	2	2	2	2	2	2	2	2	2	2	2		-
						1		I	1 1		Li	i		7		1!		1
-2	2437		Nut, Plain He	ATTACHING PARTS	.  8	8	8	8	8	8	8	8	8	8	8	8	-1-1	
-3	MS35338-44		Washer, Lock	(,,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.  8	8	8	18	8	8	8	8	18	8	8	8		
-4	2472		Washer, Plain		.  8	8	8	8	8	8	8	8	8	B	8	8		-
				* * * *	ı	i	}	1.	Ì. Ì	}_				L				1
-5	MS9134-01	&	Gasket, Cover	r	.  2	2	2	2	2	2	2	2	12	<u> 2</u>	2	2	11	-
-6	2439		Nut, Plain He	ex	.  6	6	6	6	6	6	16	6	6	6	þ	6		Í
.7 .	MS35338-45		Washer, Lock	* * * *  control of the control of t	.  6	6	6	6	6	6	6	6	6	Б	6	6		ļ
-8	2473		Washer, Plain		. [6	6	6	6	6	6	6	6	6	6	6	[6]		- [
-9	2441		Nut, Plain He	ex	. 2	2	2	2	2	2	2	2	2	2	2	2		- [
-10	MS35338-46		Washer, Lock	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.  2	2	2	2	2	2	2	2	[2	2	2	2		-
-11	401507		Washer, Plain		. [2	2	2	2	2	2	2	2	2	2	2	2		.
-12	534861A1		Adapter Asse	embly, Magneto & Accessory Drive	. 2	2	2	2	2	2	2	2	2	2	2	ا <sub>م</sub> ا		
-12	632653A1		Adapter Asse	embly, Magneto & Accessory Drive												2		Ì
-13	534742		. Bushing, Ar	dapter	.  2	2	2	2	2	2	2	2	2	2	12	_	ii	
-13	632330																	
-14	401852	t	. Stud. 1/4 x	1-13/32 Inch Long	. 4	4	4	4	4	4	4	4	4	4	4	14		
-15	25102	&	. Seal. Oil. A	dapter	. [1	1	[1	1	1	1	1	1	1	1	1	11		
-16	534863	8																
·17	629076	-	Gear Assemb	oter Ny, Magneto & Accessory Drive	. 2	2	2	[2	2	2	2	2	2	2	2	2		
-18	629077		. Sleeve. Gea	or , , , , , , , , , , , , , , , , , , ,	. [1	1	1	1	1	1	[1	1	1	1	[1	1		
-19	531178			5 1 5 C	Fo	()	12	in.	12	12	12	12	12	12	12	121		
-20	638172		Coupling, Ma	gneto Drive Coupling	. 4	4	4	4	4	4	4	4	4	4	4	4		

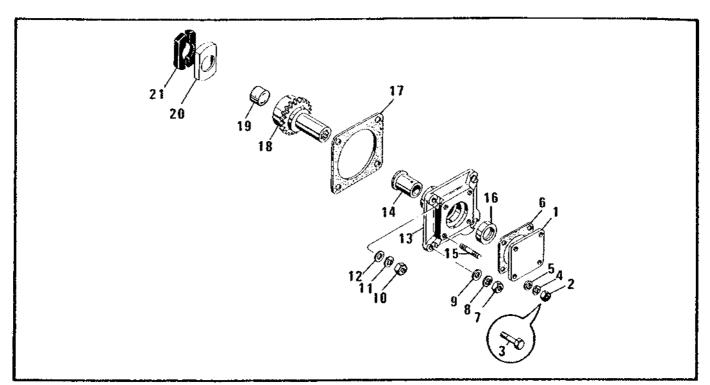


FIGURE 40 - MAGNETO AND ACCESSORY DRIVES MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

FIG.	PART	QUANTITY PER ASSEMBLY
INDEX	NUMBER	12345 DESCRIPTION CDEFGHJKLMNPRSU
40-1	640380	Cover, Accessory Drive
-2	2437	Nut, Plain, Hex
.3	537629	Bolt 1/4 x 11/16 loch Long
-4	MS35338-44	Washer t net
-5	2472	Washer, Plain
-6	MS9134-01	8 Gasket, Cover
-7	2439	Nut, Plain, Hex
-8	MS35338-45	Washer, Lock
-9	2473	Washer, Plain
-10	2441	Washer, Flain       2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
-11	MS35338-46	Washer, Lock
-12	401507	Washer, Plain
-13	632077	Adapter Assembly, Magneto & Accessory Drive
-13	534861A1	2-4-6 Side
-14	534742	Bushing, Adapter
- 15	25008	t . Stud. 1/4 x 1-13/32 Inch Long
-16	25102	& . Seal, Oil, Adapter
-17	534863	& Gasket, Adapter
-18	629076	Gear, Assembly, Magneto & Accessory Drive 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
-19	629077	Sleeve, Gear
-20	531178	Retainer Magneto Orive Counting
-21	638172	Coupling, Magneto

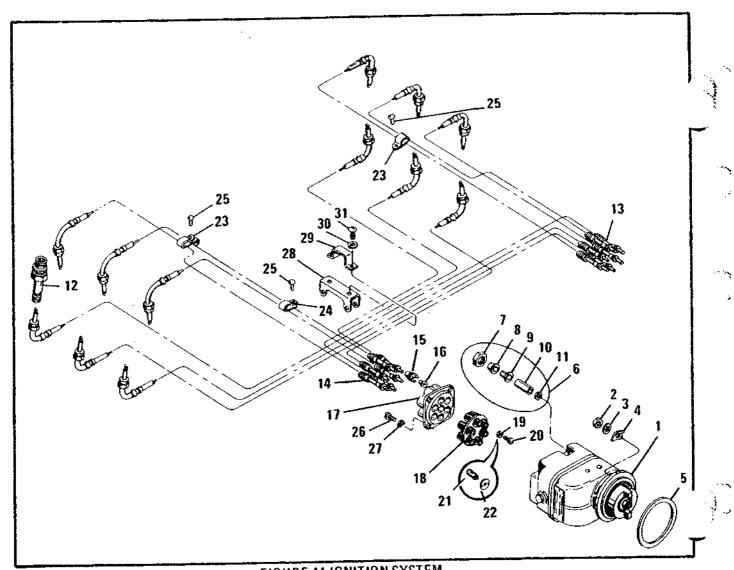


FIGURE 41-IGNITION SYSTEM MODELS 0-470-A,B,E,G,J,K,Ł,M,P,R

FIG.	PART			a	U	٩N	TI	ΤY	<u>'</u>	PEI	R	A	SS	ΕN	ſΒ	LY		
INDEX	NUMBER	12345 DESCRIPTION	A	В	E	G	J	ĸ	L	M	P	R	S	U	_		4	_
41-1	631237	Magneto Assembly	2	2	2	2	2	2	2	2	2	2						
		ATTACHING PARTS	1				İ		ļ		١.				1			1
-2	2439	INCLUSION	4							4	4	4				1 {		:
-3	MS35338-45	Washer, Lock	4	4	4	4	4	4	4	4	4	14	1		ļ			1.
-4	535847	Washer, Magneto Holding	4	4	4	4	4	4	4	4	4	4						1
		* * *	,	1	٦	,	1	1	,	,	١,	,	Ì				, İ	
-5	534750	& Gasket, Magneto	Ľ		2		12	14	12	12	14	14		1				-
-6	352024	Kit, Ground Terminal	Z	ĮΖ	ĮZ	2	14	14	14	IZ.	14	14	1	1	1			- 1.,
-7	25318	. Nut, Coupling	1		1	13	11	11	1	1	Ľ	l'			i	Ì	ı	:
-8	25317	. Ferrule, Ground Wire, Outer	[1	1	1	1	1	1	}	1	1	]1	ŀ	1		]		· Sec
-9	25316	Ferrule, Ground Wire, Inner	1	1	1	1	1	1	1	1	1	1		!	1		i I	i
-10	530455	. Sleeve, Insulating	1	1	1	1	1	}	1	1	1	1						- 1
-11	25314	. Washer, Plain	1	1	1		1	1	1	1	1	1	1					
-12	630863	Spark Plug, 18mm	þ2	!	12	2	12				Ì	}	Ì	1		ĺ		
-12	539433	Spark Plug, 18mm			ļ			12	2 12	2		12	2]		ĺ		,	- <b>1</b> -
-12	627643	Spark Plug, 18mm		12	2	12	2]	}			12	!		ł			ł	\$
* -12	627978	Spark Plug, 18mm						Ì		12	2		-					1

FIG.	PART		Τ	Q	U/	/N	TI.	ΤY	 F	<u> E</u>	R	Α	SS	EM	BL	Y	
INDEX	NUMBER	12345 DESCRIPTION	Α	В	E	G	Ţ	K	L	М	P	R	S	Ü			
41-13	625298 ①②	3 Harness Assembly, Shielded Ignition,		_								Ì			Ì		
		Left Magneto	11	1	1		1	ì		Į					ļ		
-14	625299 <b>①</b> ②	Harness Assembly, Shielded Ignition,	١,	١,	1		,	1	,					ii		1	
		Right Magneto	1'	'	'			<b>'</b>									
-13	625982 <b>①</b> ②	Harness Assembly, Shielded Ignition,				1			Ì		1		İ				
• •	225000 00	Left Magneto	l			'					'		Ì			İ	
-14	625983 ①②	Harness Assembly, Shielded Ignition,     Right Magneto		Ì		ı					1		}		'	-	
-13	627805 ①②	3 Harness Assembly, Shielded Ignition,	ı	Į	İ	ļ	ļ							[		- [	
-13	627603	Left Magneto	ı			ļ	}			1	ļ			]		}	i
-14	627804 00	3 Harness Assembly, Shielded Ignition,	i				ļ								İ	1	
, ,	327004	Right Magneto	ŀ		ĺ	}				1						-	
-13	633113 ①②	1 Harness Assembly, Shielded Ignition,			}	}	}		}								
		Left Magneto						ļ			Ì	1				- [	
-14	633114 ①②	1 Harness Assembly, Shielded Ignition,						l					ĺ		[	-	
		Right Magneto										1			}	į	
-15	25302	3 . Nut	12	12	12	12	12	12	12	12	12	12			1		
-16	20087	3 Formula	112	172	112	กว	117	117	17.2	112	112	17.7					
-17	25312	Plate, Cable Outlet	14	١,	14	2	2	2	2	14	2	2			ľ	ļ	
-18	36219	Grommet, Plate	12	2	4	4	2	-	14	۱4	1	2			1	1	
-19	25388	. Washer, Cable Contact	12														
-20	25387	Screw, Cable Contact	'^	12	12	12	12	12	12	12	12	12					
-21	627001	Sleeve, Distributor Cable										12			}	-	
-22	627002	. Washer, Magneto Block			'-	'-	"~	'`	'-	'-	'-	"					
-23 -24	535042 627921	Clamp, Ignition Leads	1						ł	2					1	-	
-24	027321	ATTACHING PARTS			İ					ļ_						1	
-25	627759	. Bolt	1							2						-	
-26	627756	. Nut, Stop								2	}		•	}			
·27	21264	. Rivet	2				1			}	l	1	1				
_,			1	1	ŀ									}			
-28	25320	Screw, Machine	8	8	8	8	8	8	8	8	8	8					
-29	25321	Screw, Machine	8	8	8	8	8	8	8	8	8	8	]			-	
-30	628271	Band, Clamp	1	1	ĺ		Į.	1	l	ì۷	t	1				}	
	539140	Bracket Assembly, Ignition Harness	1.		[1]	]		1	1	1	1						
	535559	Bracket Assembly, Ignition Harness	1	1	1	1	1	1	1	1	1	1				}	
-31	630093	Bracket & Nut Assembly, Ignition Harness	1	1	'	۱'	'	'	'	!	"	'				-	
-31	538480 535557	Bracket, Ignition Harness		1	1	1	1	1	1	1	1	1				-	
·32 ·33	535557 20527	Washer, Lock	2	1	2			2		•	2	1 -		} }			
-33 -34	AN515-8-6	Screw, Machine	2	2	2	2	2	2	2	2	2	2			Ì	Ì	
-34	WILL 0.0.0.0	. Outew, Mounine	1	[~	•	-	-	-	٦	~	"	]				Ì	
			1							1						İ	
						{						ĺ	}				
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NOTE:	S:		-		}												
_		Specification Applications								-	[		1			-	
_		Specification Applications.								Ì				}			
	•	for individual cable assemblies.			İ			-		l		-	1			ļ	
③ S	See Figure No. 48	for detail parts of ignition cable spark plug end.															
<b>(4)</b> 9	See Figure No. 47	for detail parts of ignition cable spark plug end.				ĺ	ł						ļ		ļļ	Ì	
~ `																	

<sup>3</sup> Applicable to all cable assemblies.

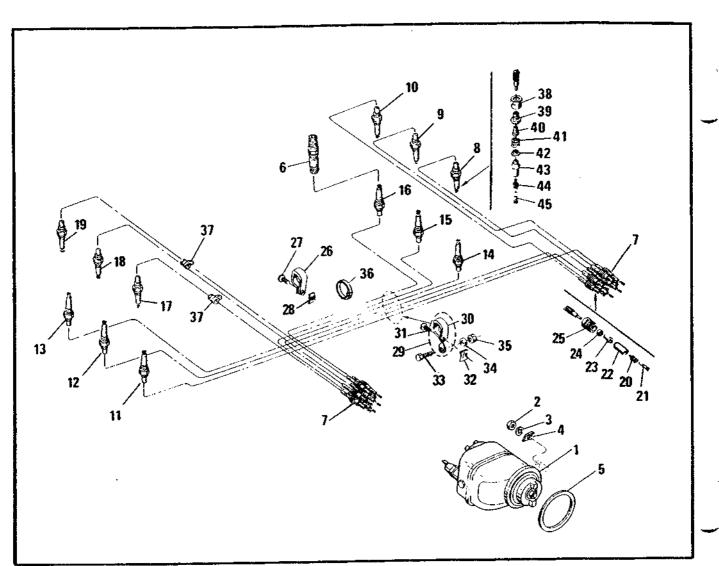


FIGURE 42 - IGNITION SYSTEM MODELS 0-470-S,U

FIG.	PART		Γ	Q	U	٩N	TI	ΤΥ	P	EF	₹	AS	SI	EN	IBI	LΥ	, 		
INDEX	NUMBER	12345 DESCRIPTION	A	В	E	G	j	K		М	P	R	2	Ū					
42-1	625765	1 Magneto Assembly			Ì								2	2		'			
		ATTACHING PARTS			1		ļ		i					ı					
-2	2439	Nut, Hex							1					4					
-3	MS35338-45	Washer, Lock		}			1						1	4			1		
-4	535847	Washer, Magneto Holding									ĺ	'	4	4			1		l
		* * *					1				Į		ٳ؞				ļ		
-5	534750	Gasket, Magneto	l	l			•	1 1					2	2					
-6	631277	Spark Plug	l				Ì						2		i		•		
-6	634675	Spark Plug	1				1		. !				.	ΙZ					ķ
-7	633311	Harness Assembly		1		1		ļļ		i	.	1	.		ĺ		1	-	×.30
-8	633580	② . Cable Assembly, No. 1 Upper, 19 Inches Long	1										!		i	İ	•		
.9	633580	② Cable Assembly, No. 3 Upper, 21 Inches Long			i			} }					!				ĺ		l
-10	633579	② . Cable Assembly, No. 5 Upper, 28 Inches Long					1						!		1		İ		İ
-11	633579	② . Cable Assembly, No. 2 Lower, 43 Inches Long	i i	1	1	١	ļ				ľ		1				1		1
-12	633579	O Cable Assembly, No. 4 Lower, 39 Inches Long											1						J
-13	633579	② . Cable Assembly, No. 6 Lower, 42 Inches Long	1										•		Ì	1	Į.		1.
-14	633579	② . Cable Assembly, No. 1 Lower, 38 Inches Long	ı	İ	ļ		Ī	1 -		ļ		[	•	1	Į	I	í		*

FIG.	PART		7		OI	ΙΔΙ	 _1T			FF		Δ!	222	 FM	121		
INDEX	NUMBER	12345 DESCRIPTION	A				ij					R				Ť	T-
42-15	633579	② . Cable Assembly, No. 3 Lower, 42 Inches Long	<del>-</del>	Ţ <u></u>	1	Ť		1			П		1	1	-	+	+1
-16	633579	② . Cable Assembly, No. 5 Lower, 50 Inches Long				}			Ì				1	1	- }	-	
- 17	633580	2 . Cable Assembly, No. 2 Upper, 21 Inches Long				Ì		}		i			1	1	1		
-18	633580	Cable Assembly, No. 4 Upper, 18 Inches Long					{	ł		i			1	1	ţ	Ì	
-19	633580	① . Cable Assembly, No. 6 Upper, 25 Inches Long			İ			-	-	ļ			1	1	-{	-	
-20	633586	. Spring			-	{		}	Į	-			1	1	- [		
-21	633585	. Screw			1			Į	ļ				1	1		-	
-22	633584	. Sleeve, Insulating			İ	Ì		į	ļ				1	1	1	Ì	
-23	633583	. Ferrule		-	ļ			ļ	ĺ				1	1			11
-24	633582	. Washer							Į				1	1	}		
-25	633581	. Nut, Magneto End				ĺ		j	1				1	1	1	]	
-26	636692	Clamp Assembly		}					ĺ				2	2		ļ	1
-27	632105	. Screw	1					Ì					2	2		İ	
-28	629837	, Nut		ĺ									2	2			
-29	636922	. Clamp Assembly											1	1			1
-30	626919	Clamp						ŀ					1	1			1
-31	636687	Screw				l			l				1	1		-	
-32	633927	Nut	t	-					ĺ				1	1		-	
-33	AN501-10-8	. Screw				ļ							1	1	ı	-	
-34	22910	. Washer, Lock					}		. }				1	1			
-35	MS20365-1032			1	1	Ì	}	Ì	`	.			1	1			1
-36	633926	. Ty-Rap	-	1		ł		j					10	10	ı		
-37	633925	. Clamp				ŀ		ı	ŀ				12	12			
-38	633593	. Nut	1			ĺ			Ì				1	1			
-39	633589	. Ferrule	1					Ì					1	1			
-40	633583	. Ferrule	1				i i						1	1			
-41	633590	. Spring	1	ĺ			}	İ					1	1		1	
-42	633592	. Washer			ĺ		1						1	1	-		1 1
-43	633591	. Sleeve		}									1	1	Ì		
-44	633586	, Spring			ł								1	1		ļ	
-45	633585	. Screw						į	į				1	1			İΙ
						ļ											
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① See Section VI for Specification Applications.

Service leads furnished in two lengths only and terminated at both ends. 633580 for leads up to 28 inches long. 633579 for leads up to 50 inches long. Disassemble lead assemblies at magneto end. Cut lead to length specified and reassemble per instructions in overhaul manual or Slick Electro Form No. 1007.

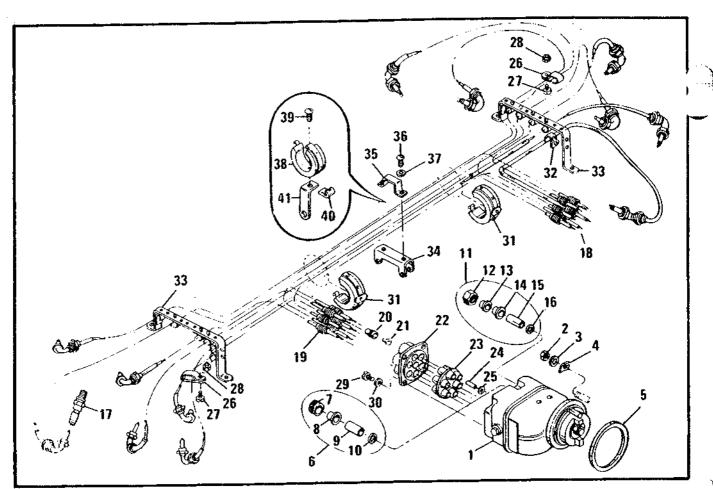


FIGURE 43 - IGNITION SYSTEM MODELS 10-470-C,E,F,G,H,L,M,N,P,R

C ELC		111000000 10 170 070, 7-7-7-7-7-7-7	Γ	0		N	TI	 ТY	, I	PEI	R	A	SS	EN	nB	LY	_	7
FIG.	PART NUMBER	12345 DESCRIPTION		D	E	F	G	Н	J	K	_					_		図
43-1	631237	① Magneto Assembly	2	2	2	2	2	2						2	2	<u> </u>		<b>!</b> !
-1	628472	Magneto Assembly, Left Hand				ļ	ļ				1	1	1					
-1	628473	① Magneto Assembly, Right Hand		l	1	Ì					1	1	1					
		ATTACHING PARTS				}			1									1
.2	2439	Nut, Hex	4	4	4	4	4	4	İ	Į		4						l
-3	MS35338-45	Washer Lack	14	14	4+	14	4	<b>∤</b> 44	ì			4				1		
-4	535847	Washer, Magneto Holding	4	4	4	4	4	4	}		4	4	4	4	4			
•	000011		1	1	ι	1	ţ	1	1	1		١.						
.5	534750	& Gasket, Magneto	2	2	2	2	2	2			2	2	2	2	2			ľ
-6	628739	Kit, Ground Terminal, Left Magneto		ļ			Ì	1	ļ		1	1	1					
.7	629007	. Nut, Coupling			1	ļ		}			1	11	1	l		1		
-8	629008	. Bushing, Shouldered			ŀ	1					1	1	1				Ì	
.9	629009	. Bushing, Insulating						İ	١	Į	1	11	1		1	ŀ	Į	
-10	629010	. Washer, Plain					Ì				1	[]	]			ļ	į	
	628740	Kit, Ground Terminal and Right Magneto		1		ĺ		ł		İ	2	2	2				1	1
-7	629011	. Nut, Coupling						1	ĺ	}	]	11	!!			Ĭ		
-8	629008	. Bushing, Shouldered			İ				1			1	11	l	ļ			1
.9	629009	Bushing, Insulating	1			İ		-			1	[]	11	1			}	
-10	629010	Mischer Olain	1	1	ļ		}	1.			1	11	1	}_	_	Ì		
-11	352024	Kit, Ground Terminal and Right Magneto	[2	2	2	2	2	2						2	2	ĺ		
-12	25318	, Nut, Coupling	1'	ļ,	1	[1	1	1	1	-			}	]]	]]		1	+
-13	25317	Ferrule, Ground Wire, Outer	ין	1.	F	י ו	י ן	,,	İ			ļ					,	أر
-14	25316	Ferrule, Ground Wire, Inner	1	{1	1	1	<b>{1</b>	1			1	ļ	}	1	ļį	ţ		T 1

FIG.	PART			Q	UΑ	N	FIT	ſΥ	Р	EF	}	A:	SSI	ΕM	B	Υ.		
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	Н	-	к	П	M	N	Р	R	s	υl	٧l
43-15	530455	. Sleeve, Insulating	1	1	1	1	1	1		}				1	1	T		٦
-16	25314	. Washer, Plain	1	1	1	1	1	1				ı	}	1	1		İ	١
17	630533	Spark Plug, 18mm		1		12	1			Į	- 1		Į	1		ļ	İ	- 1
-17	627449	Spark Plug, 18mm	12						ı		J	-	İ					ı
-17	627450	Spark Plug, 18mm	-		İ		12				- }		Į	12	12	l	-	- 1
-17	634675	Spark Plug	ļ	12	12			12		· ŀ	12	12	12				-	Ì
-17		Harness Assembly, Shielded Ignition, Left Magneto	1	1	1	1							1		1	1		
-18		Harness Assembly, Shielded Ignition, Right Magneto						1					1					
	~~~		h	'	١.	Ι.		' '			`	•	١.	•	'	-		İ
-18		Harness Assembly, Shielded Ignition, Right Magneto	li				İ				-		]					
·19	627862 000	Harness Assembly, othernea ignation, tright magneto	12	12	12	17	12	12			ارر	12	12	12	12	1	ļ	
-20	25302	Nut											12					J
-21		7. Ferrule	12	3	2	2	3	2					2				i	
-22	25312	Plate, Cable Outlet	3	2	2	2	2	2			2	2	2	2	5	Į	ı	
-23	36219	Grommet, Plate	12	12	2	12	14	12					12			1	- 1	ŀ
-24	627001	Sleeve, Distributor Cable	12	12	12	12	12	12								-	ı	ŀ
-25	627002	Washer, Magneto Block	12	12	1,4	14	12	14					12 2				į	[
-26	627921	. Clamp, Ignition Harness	-	2	12	[4]	14	4			۷	2	4	Z	-	İ		- 1
		ATTACHING PARTS			į			}			Í							
-27	627759	. Bolt	2	2	2	2	2	2			2	2	2	2	2			
-28	627756	. Nut, Stop	2	2	2	2	2	2			2	2	2	2	2			Ì
		* * * *		ŀ	į			į		}								-
-29	25320	Screw, Machine	8	8	8	Į8	8	8			8	8	8	8	8			ı
-30	25321	Machae Lack	iR.	įχ	B	R	lR.	8			8	8	8	8	8			
-31	628271	Rand Clamo	12	12	12	12	12	12			2	2	2	2	2			
-32	626577-2R	Clamp Ignition Cable	112	ที่ 2	112	02	112	12			12	12	12	12	12			j
-33	626486	Reacket Fuel Discharge Tube	12	12	12	12	12	2			2	2	2	2	2			I
<b>V</b> 0	539140	Reacket Assembly Innition Harness	] [	11	11	F		1					l	1	1			
-34	630093	Bracket and Nut Assembly, Ignition Harness		11	11	ļ I	1	1		{				1	1			
-35	535557	. Clip, Bracket	1	1	1	1	1	1						1	1	l		
00			l			ļ		İ			l							ı
0.0	441545.0.0	ATTACHING PARTS	١,	12	١,	۱,	1,	12			ļ			2	2			Į
-36	AN515-8-6	Screw, Machine	15	12	16	12	5	14	} '			!		2	2	· \		
.37	MS35338-42	. Wasner, Lock	14	14	~	~	*	۱'	1					2	-			
20	000074	* * * *	ı		۱,		}		į	}	3	1	1	'		1		
-38	628271	Band, Clamp	ı		4	}	ĺ				'	•	'		İ			
		ATTACHING PARTS	]		1	Ì			ĺ									
-39	535213	Screw, Sheet Metal	ı		}	Ì	ł		ŀ		1	1	1					
-40	537911	Nut, Speed	ı	i		ļ					1	1	1		i			
		* * *	1			Ì			l				} .		Ì			
-41	626524	Bracket, Ignition Harness	1	İ		}	1		Ì		1	1	[1]			ļļ		
7					Ì	}			ĺ						Į			ı
				ļ					į						{			,
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		for Country Africa Ameliana								]								,
_	-	for Specification Applications.					İ			]		Ì						.
(	See Figure No.	46 for individual cable assemblies.								1		ł						,

<sup>3</sup> See Figure No. 49 for detail parts of ignition cable spark plug end.

Applicable to all cable assemblies.

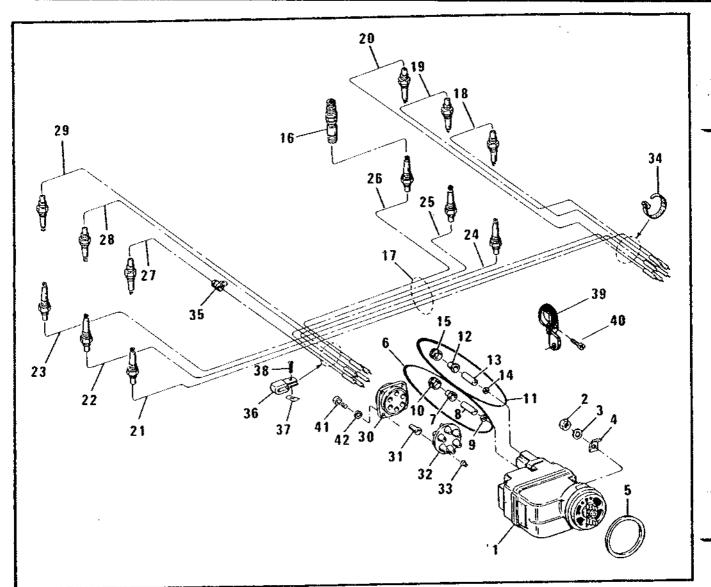


FIGURE 44 - IGNITION SYSTEM MODELS 10-470-S,U,V

FIG.	PART			-	QŲ.					PER		ASS					]	
INDEX		12345 DESCRIPTION	<u>_</u> [ <u>c</u>	Ţ	E	F	ĪĠ	H	IJ	ΚI	_	MN	P	R	S	U	V	
44-1	628472	Magnete Assembly, Left Hand		ļ	Ì					Ιİ				1	1	1	1	
-1	628473	1 Magneto Assembly, Right Hand	.						l		Į				1	1	۱ ۱	
		ATTACHING PARTS		1							ĺ				1		Í	فده. ١٠
.2	2439	Nut, Hex	. [		Ì			1			1				4	4	4	
.3	MS35338-45	Washer, Lock									ı			1	4	4	4	
-4	535847	Washer, Magneto Holding							1	Ιİ	-		1	-	4	4	4	
		* * * *	- 1		-		1				Ì						ا ۱	İ
-5	534750	& Gasket, Magneto				Ì	1				ĺ		ļ		2	2	<u> </u>	
-6	628739	Kit, Ground Terminal, Left Magneto	-		1		1			] [	ļ	1				1:	1	
-7	629008	. Bushing, Shouldered	. [				1			1	Ì				;	;	;	
-8	629009	. Bushing, Insulating			-		-	}	Ì	1 1	Ì		1		¦	١;	, ,	ĺ
-9	629010	. Washer, Plain					1	١	Ì	11		- }			1:	;		
- 10	629007	. Nut, Coupling							1	11	- [		}	1		;	,	l
-11	628740	Kit, Ground Terminal, L & R Magneto					İ				Į		1	l	1:	1	, ,	Υ···
-12	629008	. Bushing, Shouldered									- 1		1		1;	1		3
-13	629009	. Bushing, Insulating	٠	į	-	ţ	ı	ŧ	ì	1 1	ı	Ì	J	j	1 1	ξ,		

FIG.	PART		QUANTITY PER ASSEMBLY										<b>-</b>	Ì				
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	H	ī	K	L	М	N	p	R	S I	Jν	1
44-14	629010	. Washer, Plain								•				ļ		- 1	1   1	l
-15	629011	. Nut, Coupling	}													1	1	ŀ
-16	634675	Spark Plug, 18mm	]							ĺ		li					2 12	
-17		① . Harness Assembly, Complete Shielded Ignition								}				1		1   1	1	ļ
-18		O Cable Assembly, No. 1 Upper 15.25 Inch Long .	l		]					ļ							1   1	ļ
-19	637409-48	O Cable Assembly, No. 3, Upper 20.06 Inch Long	1	{														l
-20	637409-48	3 Cable Assembly, No. 5, Upper 28.06 Inch Long	1		;											.		l
-21		3 Cable Assembly, No. 2, Lower 39.06 Inch Long	ļ						Ì							<u>'</u>   .		l
-22		O Cable Assembly, No. 4, Lower 35.69 Inch Long	1		l									ļ		<b>,</b>		l
-23		O Cable Assembly, No. 6, Lower 42.06 Inch Long												i		<b>,</b> ].	!   1	l
-24		① Cable Assembly, No. 1, Lower 35.69 Inch Long ② Cable Assembly, No. 3, Lower 40.56 Inch Long			ļ													ļ
-25 -26		① Cable Assembly, No. 5, Lower 40.56 Inch Long				}					}				ĺ	;   .	וו	ļ
-27		② Cable Assembly, No. 2, Upper 20.00 Inch Long					}									i	i   i	l
-28		3 . Cable Assembly, No. 4, Upper 17.19 Inch Long		}						ļ					1	1	1 1	ı
-29		3 Cable Assembly, No. 6, Upper 23.06 Inch Long									•					1	1 1	l
-30		1 Plate, Cable Outlet	l													1	1	
-31		① Ferrule, Cable	ĺ					Į	ļ							6   1	6 6	l
-32	629496	🗿 Grommet, Plate		}					}	}						1	1   1	Ì
-33	629495	🗿 Eyelet, Cable Contact													1 1		6 6	۱
-34	629494	. Strap, Ignition Harness	1	į	ĺ				Ì							- 1	0 10	
-35	632106	. Clamp, Ignition Cable		Ì	ļ					•						- 1	2 12	
-36	631739	. Clamp, Ignition Harness	1		ļ				ļ								2   2	l
-37	629837	. Nut, Speed														2	2 2	ĺ
-38	632105	. Screw	1							•							2   2 1   1	ļ
-39	635363	. Clamp							ì	İ					l I			١
40	635360	. Screw									ĺ					· I	8 8	
-41 -42	25320 25321	Screw	l														3 8	l
-42	29321	yvasner, Lock			ļ			ĺ								۱`		۱
1			1		ļ						l					-	1	l
						ļ	ļ				ĺ		}					l
			1		}		}										İ	l
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- O See Section VI for Specification Applications.
- 3 See Figure No. 50 for detail parts of ignition cable spark plug end.
- 3 Service leads furnished in two (2) lengths only, 637409-48 cable assembly for leads up to 48" long, 637409-72 cable assembly for leads up to 72" long.
- Applicable to all cables assemblies.

Service sleeves - Use Thomas and Betts crimping tool No. WT-217.

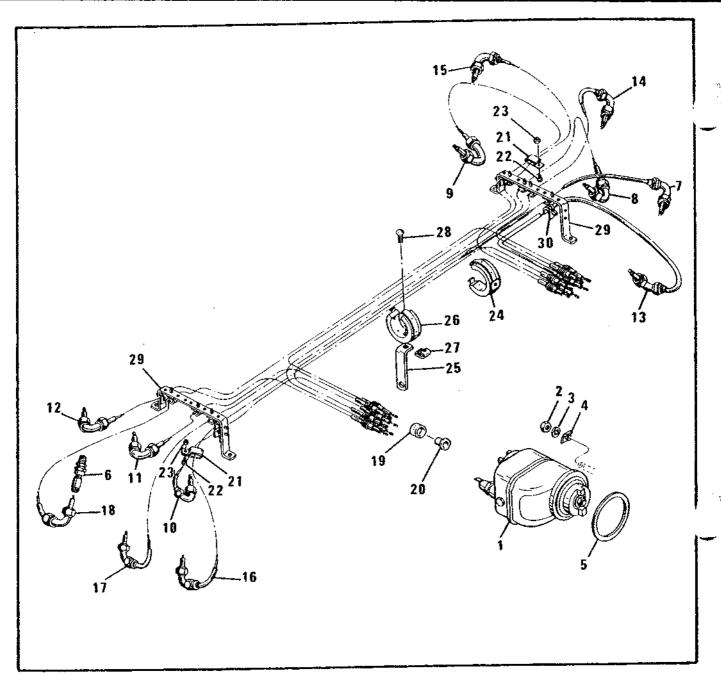


FIGURE 45 - IGNITION SYSTEM MODELS 10-470-J,K

[ [	PART		T		<u> </u>	N	 T1	ΤY		·EF		 \SS	EΜ	BL'	Υ	7
FIG.	NUMBER	12345 DESCRIPTION	1							κĪ					ارزا	$\forall$
	<u> </u>			"	<b> -</b> -	Ι_	<b> </b>	<b>                                     </b>	}	2	- 11	1			14	*
45-1	625765 (	Magneto Assembly			Ì	1	}		[~							-
•		ATTACHING PARTS	-	İ	{				١,							
-2	2439	Nut, Hex	- [	1				ļ	4	4						
-3	MS35338-45	Washer, Lock				ļ			4	4						
-4	535847	Washer, Magneto Holding							"							-
r	£247£0	* * * * & Gasket, Magneto						}	2	2			} }	ĺ	}	
.5 .6	534750 539433	Spark Plug, 18mm		ĺ				[		12		}		-		ļ
.0		2) . Harness Assembly, Shielded Ignition, Left Magnetic		1			ĺ	ĺ	1	1				-	1	
.7	628391-31.75	. Cable Assembly, No. 1, Lower			1				1	1	- (			}		
-8	628391-32.00	Cable Assembly, No. 3, Lower			1	ļ			3	1				}		
.9	628391-37.50	. Cable Assembly, No. 5, Lower			İ			l	1	1	ł				}	١
·10	628320-16.25	. Cable Assembly, No. 2, Upper					ĺ		1	1 [						-
-11	628320-12.75	Cable Assembly, No. 4, Upper					l	}	1	11						-
-12	628320-16.00	. Cable Assembly, No. 6, Upper						1	1	1	1					
		D. Harness Assembly, Shielded Ignition, Right Magne				ļ	Ì	Ì	1		ļ					
-13	628320-11.00	. Cable Assembly, No. 1, Upper							1	[						
-14	628320-14.25	. Cable Assembly, No. 3, Upper					ĺ		1		}					
-15	628320-17.50	Cable Assembly, No. 5, Upper							<u>'</u>	11	}	}			11	- [
-16	628391-32.50	Cable Assembly, No. 2, Lower					İ	}	li	11		}	1		1	-
-17	628391-32.50 628391-36.50	Cable Assembly, No. 4, Lower					Ì		1	$ \mathbf{i} $		Ì	1			[
-18 -19		Nut			ļ				12	12			1			- 1
-20		D. Ferrule							12	12		İ	1			ļ
-20 -21	627921	. Clamp, Ignition Harness		}					2	2	İ		] ]		1 1	- [
4.1	027027	ATTACHING PARTS	-	ļ										ļ		
-22	627759	. Bolt, No. 6-32 x 5/16 Inch Long		1		ļ			2	2	ļ					- [
22	627756	. Nut, Stop, No. 6-32							2	2	Ì					- [
20	027730	* * * *				ĺ					- }					- 1
-24	628271	Band, Clamp	.		ļ				2	2		-				}
-25	628474	Bracket, Ignition Cable Support	.		-		ļ		1	11		}	1			-
-26	628271	Band, Clamp	.		ĺ				1	1		İ				1
		ATTACHING PARTS		1	ĺ						Ì			}		
-27	537911	Nut, Speed	.					İ	1	1	-					
-28	AN526-1024-4	Screw, Sheet Metal	.		-				1	1	1	İ				
		* * * *	ļ					}	1			}				
-29	626486	Bracket, Fuel Discharge Tubes	Ì	}					2	2 12						Ì
-30	626577-2R	Clamp, Wiring Harness	- }						''	12						
			-								-					
										1	ļ	-			-	
					1			}		}		}				
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NOT	ES:							ĺ					[	}		
(i)	See Section VI fo	or Specification Applications.				}				ĺ				[ ]		
_		) for detail parts of ignition cable spark plug end.		ļ				ļ	Ì	{		Ì				
<u>(</u>						-				1						}
(3)	Applicable to all	cable assemblies.	Ţ	1		İ	1	ŧ	ĺ	ı	<b>i</b> [	1	1	1	ļ	1 1

ENGINE	HARNESS ASSY.	CABLE ASSY.		UPPER	PLUG L	EAD LE	NGTHS		<u> </u>	LOWER	PLUG L	EAD LE	NGTHS	<del></del>
MODEL	P/N	P/N	No. 1	No. 2	No. 3	No. 4	No.5	No. 6	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
A, B, E, J, K, L	Left Mag 625298	62635 <del>9</del>		19.44		17,44		21.19	33.44		33.69		39.69	
	Right Mag 625299	626359	16.19		19.44		22.69			34.69		32.44		39.69
G, P	Left Mag	626831						Ĺ	39.65		33.31	ļ	39.31	ļ
·	625983	626832		19.44		18.94	<u> </u>	21.19	<u> </u>			<u> </u>		<b>1</b>
	Right Mag	626831					<u> </u>		<u> </u>	34.31	ļ <u> —</u>	33.06		39.31
	625983	626832	16.19		19,14		22.69	<u> </u>				<u> </u>		<u> </u>
M	Left Mag 627805①	627040		19.44		18.94		23.19	36.94		37.19		42.19	
	Right Mag 627804	627040_	16.19		19.44		22.69			39.19		35. <b>69</b>		41.69
R	Left Mag	633580@		21.00		18.00	<u> </u>	25.00	<u> </u>	<del> </del>	<u> </u>	<del>  </del>	<b> </b>	ļ
	633113	633579 <b>@</b>		<u> </u>	ļ		ļ	ļ <u></u>	38.00	<del> </del> —	42.00		50.00	<del> </del>
	Right Mag	633580@	19.00		21.00	<u> </u>			<u> </u>	<u> </u>			<b> </b>	<u> </u>
	633114	633579@			}	l	28.00	<u> </u>		43.00		39.00	<u> </u>	42.00

ENGINE	HARNESS ASSY.	CABLE ASSY.		UPPER	PLUG L	EAD LE	N <u>GTHS</u>			LOWER	PLUG I	EAD LE	NGTHS	
MODEL	P/N	P/N	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
С	Left Mag	626831	Ţ				<u> </u>		36.94		37.19		41.19	<u> </u>
	627863	626832		19.44		17.94	ļ <u></u> -	21.19	<u> </u>				<u></u>	<u> </u>
	Right Mag	626831								37.69		35.69		41.69
	_627862	626832	16.19		19.44		22.69				ļ			<u> </u>
D, E, F, G, H, L,	Left Mag 627805	627040		19.44		18.94		23.19	36.94		37.19		42.19	<u> </u>
M, N, P, R	Right Mag 627804	627040	16.19		19.44	ļ 	22.69			39.19		35.69	<u> </u>	41.69

FIGURE 46 - IGNITION CABLE LEAD LENGTHS MODELS 0-470-A,B,E,G,J,K,L,M,P AND IO-470-C,D,E,F,G,H,L,M,N,P,R

- ① These harness assemblies replace 627039 and 627038 respectively which had the lower leads routed between the cylinders. However, the leads for the 627805 and 627804 assemblies have longer leads which are routed over and anchor to the rocker box cover.
- 2 Service leads furnished in two lengths only, 633580 for leads up to 28 inches, long, 633578 for leads up to 50 inches long.

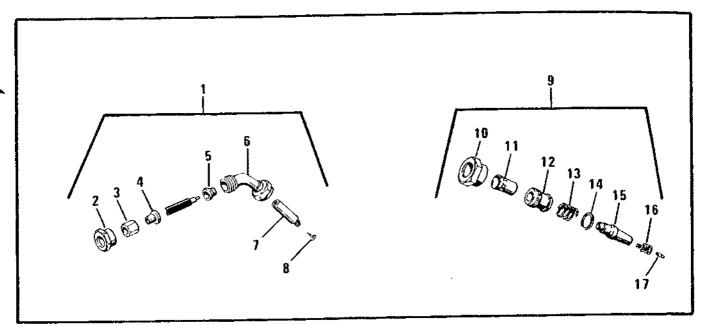


FIGURE 47 - IGNITION CABLE, SPARK PLUG END MODELS 0-470-G-P-R

EMBLY	SSE	A	R	<b>PE</b> I	F	Υ	ſij	NΊ	JΑI	ЭŲ	(	١		PART	FIG.
		R	P	M	L	Κ	J	G	E	3	A I	_[	12345 DESCRIPTION	NUMBER	INDEX
			rf					rf			-		Cable Assembly (See Figure 46)	626831	47-1
.	-	] [	rf					r f	1	ı	ļ	ł	Cable Assembly (See Figure 46)	626832	-1
:			1	İ				1	- 1	-	- [	1	. Nut, Spark Plug End	636675	-2
			1	}				1				١	. Ferrule, Cable, Outer	636676	-3
i	ı		1					1	ļ				. Ferrule, Cable, Inner	636677	-4
	- [		1			1		1	ļ				. Grommet	636678	.5
	- 1	1	1	1				1	Ì	ŀ	}	İ	. Elbow Assembly (626831 Cable)	WE365	-6
			1		İ			1	ı	ļ	•		. Elbow Assembly (626832 Cable)	WE1017	-6
ł		1 1	1					1	Ì	1	Ì		. Sleeve, Spark Plug Terminal	628986	.7
, , , , ,			1					1	1	ı	Ì		, Nail ,	626718	-8
		rf								-	1	ı	Cable Assembly (See Figure 46)	633580	.9
		rf	İ	İ						١			Cable Assembly (See Figure 46)	633579	-9
		1	1						l	1			. Nut, Spark Plug End	633593	-10
		1				1			[	-	- [		Ferrule	633589	-11
		1	ļ	1				i	1	-	- }		. Ferrule	633583	-12
		1			Ì	•			ĺ	ļ			. Spring	633590	-13
		1		1	ļ				-	ļ	Ţ		. Washer	633592	-14
{		1				ĺ	•	!	ļ	j	-		. Sleeve	633591	-15
		1	1	1			ŀ		- 1	-	İ		. Spring	633586	-16
		1		1					ļ	-			. Terminal	633585	-17
						}				-		ŀ			
			l	}		Ì					- [	1			
1 1 1 1	1	'		1	Į				ı			1			
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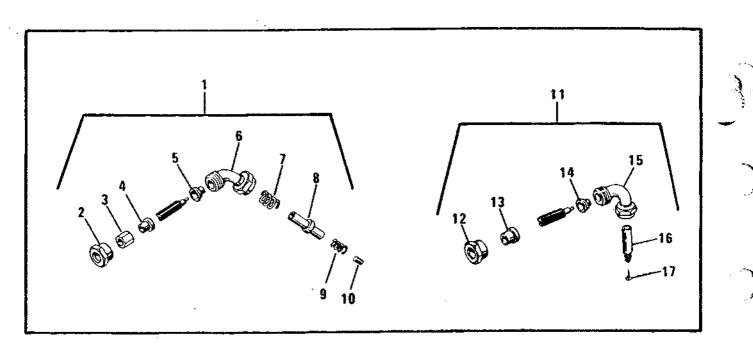


FIGURE 48 - IGNITION CABLE, SPARK PLUG END MODELS 0-470-A,B,E,J,K,L,M

FIG.	PART			Q	U	44	ITI	T١	Y	PE	R	Æ	SS	SEN	ИΒΙ	LY	_	
INDEX	NUMBER	12345 DESCRIPTION	A	В	E	G	J	K	L	N	P	R	S	U				]
48-1	627040	Cable Assembly (See Figure 46)			1		-			r	f						ł	
.2	636675	. Nut, Spark Plug End	1	1						1	1	1						1.
-3	636676	. Ferrule, Cable Outer						ĺ		1	1		į				İ	į
-4	636677	. Ferrule, Cable Inner	1							]1								٩
-5	636678	. Grommet				ļ			-	1		1						_
-6	WE630	. Elbow Assembly			-			-	}	1		-		l	1			-
-7	WE626	. Spring, Compression							}	1		1	1	ĺ	1		1	
-8	WE565	. Grommet	ı				1		Į	1	<b>│</b>	ļ	1		1			1
-9	626714	. Spring, Terminal	ļ	ļ		}				1			1	1			1	1
-10	626713	. Stud, Terminal Spring	-				ļ	l		1				1				1
-11	626359	Cable Assembly (See Figure 46)	rf	rf	rf				rf			ļ			1		Ì	1
-12	636675	. Nut, Spark Plug End	1	1	1	ŀ	1	1	1				1	1		<u> </u>		1
-13	WE502	. Ferrule, Cable	1	1	1		1	1	1				[	1				1
-14	636678	. Grommet	1	1	1		1	1	1		ļ	1						1
-15	WE1017	. Elbow Assembly	[1	1	1		1	1	1		ł	ĺ						1 -
-16	628986	. Sleeve, Spark Plug Terminal	1	1	1		1	1	]1			1		1				.
-17	626718	. Nail	1	1	1		1	1	į 1		Į							`
							•	ĺ			ŧ						}	
						İ												
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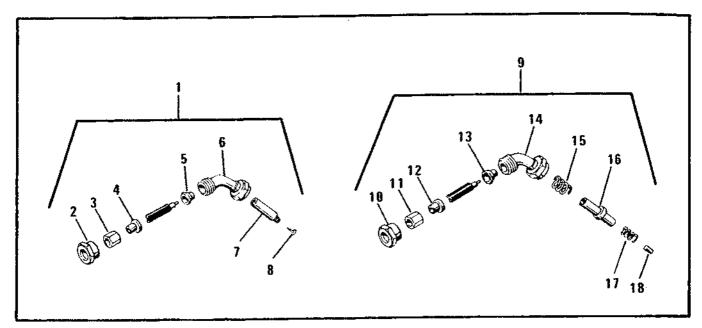


FIGURE 49 - IGNITION CABLE, SPARK PLUG END MODELS 10-470-C,D,E,F,G,H,L,M,N,P,R

FIG.	PART		Π	C	υ.	AN	ITI	T١		PE	R	Α	SS	ΕN	1B	LΥ		
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	Н	J	K	ŢĹ	M	N	Р	R	S	U	v
49-1	626831	Cable Assembly (See Figure 46)	rf		}	l												
-1	626832	Cable Assembly (See Figure 46)	rf						ļ		1							
-2	636675	. Nut, Spark Plug End	1			ļ		ļ			1						[	
-3	636676	. Ferrule, Cable Outer	1			ļ						Į						
-4	636677	. Ferrule, Cable Inner	1		ļ	1		}		İ			i			ĺ		
-5	636678	. Grommet	1					ļ			1	Ì						
-6	WE365	. Elbow Assembly (626831 Cable)	1				Ì	}			ļ	1						
-6	WE1017	. Elbow Assembly (626832 Cable)	1		Ì	İ	1				1	-	Ì				}	
-7	628986	Sleeve, Spark Plug Terminal	1		1				l		1							
-8	626718	. Nail	1	١.	١.	١.	١.	١.			١.	١.	١.	_ ا			Ì	
.9	627040	Cable Assembly (See Figure 46)						rf			i .			rf	ſΪ			
-10	636675	. Nut, Spark Plug	l	1	1	1	•	[1				1	1	[1	1		[	
-11	636676	. Ferrule, Cable Outer		1	1	1.	1	1	1		11	1	1	1		Į		
-12	636677	. Ferrule, Cable Inner		1	1	}	1	[]			11		!					
-13	636678	. Grommet		]]	[]	11	[]	[]			1		1	1			}	
-14	WE630	. Elbow Assembly		11	11	]	$\prod$	1		-	11	[]	!					
-15	WE626	. Spring, Compression	ĺ	1	[]	1	]	[ ]			1							
-16	WE565	. Grommet	İ	1	1	1	1 '	]			1			1		ļ		
-17	626714	. Spring, Terminal	1	1	1	, -		1	1		1		1	1				
-18	626713	. Stud, Terminal Spring		1	1	1	1	1			1	1	1	1	1			
									}	ĺ								
				}			l		ļ	İ								
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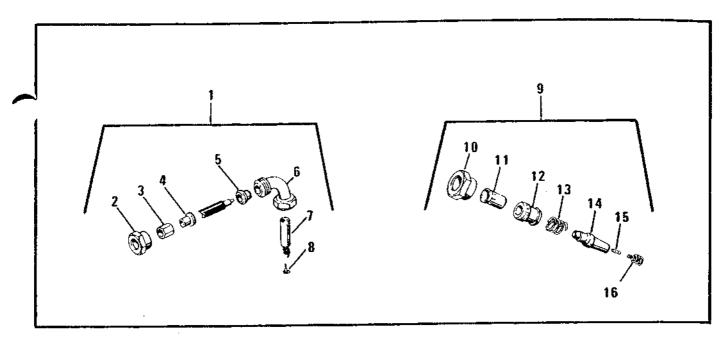


FIGURE 50 - IGNITION CABLE, SPARK PLUG END MODELS 10-470-J,K,S,U,V

FIG.	PART		Γ	a	U/	N/	TI.	TΥ	F	'EI	R.	A	SS	EN	1BI	LY		٦
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	E	G	Н	j	K,	L	М	N	P	R	S	Ш	V
50-1	628391	Cable Assembly (See Figure 45)						( 1	rf									
-1	628320	Cable Assembly (See Figure 45)			1				rf	rt								
-2	636675	. Nut, Spark Plug End		ļ					1	1		1						
-3	636676	. Ferrule, Cable Outer		ļ					1	1								. 1
-4	636677	. Ferrule, Cable Inner		į					1	1		1						
-5	636678	. Grommet	•	Į	ļ				1									
-6	636679	. Elbow Assembly (628320 Cable)		į					1	1								
-6	WE365	. Elbow Assembly (626831 Cable)		}					1	1		1					į	
-7	628986	. Sleeve, Spark Plug Terminal				ĺ	ĺ	1	1	1								
-8	626718	. Nail	ĺ		ļ		ĺ		1	1							١	
-9	637409	Cable Assembly (See Figure 44)	ĺ							li							ц	rf
-10	629502	. Nut, Spark Plug End	]	ļ												1	1	11
-11	633012	. Ferrule	l	Ì												1	1	1
-12	633096	. Ferrule		}												1	1	1
-13	629504	. Spring Assembly, Compression						}			}					1	1	1
-14	629505	. Sleeve, Spark Plug Terminal			•											1	1	1
-15	633099	. Terminal, Crimp Type			į	ļ	}	}								1	1	1
-16	629506	Spring, Spark Plug Terminal														1	1	1

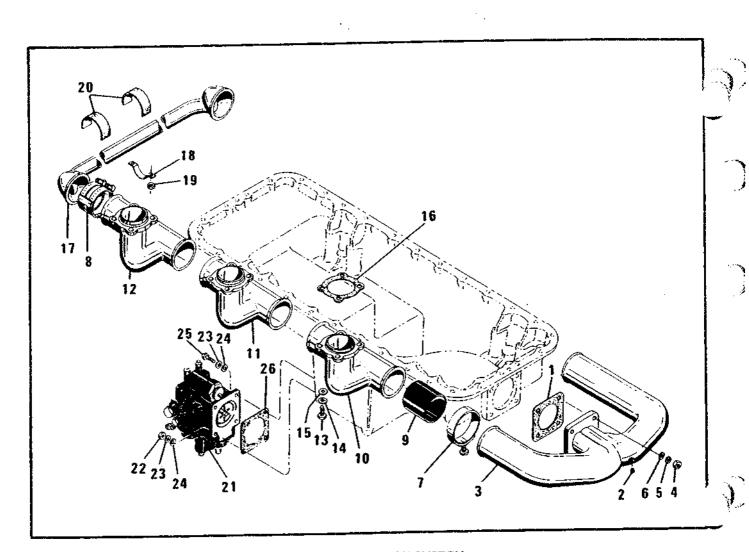


FIGURE 51 - INDUCTION SYSTEM MODELS 0-470-6,P

FIG.	PART	$\top$		Γ	QI	JA	N1		Υ	PE	R	Α	SS	E۱	ИB!	LY		٦
INDEX	NUMBER	ļ	12345 DESCRIPTION	Α	В	E	G	J	ΚĮ	. N	1 P	IR	Īs	U			T	_
<u> </u>	<u></u>	<u>l</u> -	Gasket, Manifold	Γ	П		1		1	1	1	1	Τ	Γ			1	٦
51-1 •2	35985 629518-1H	α	Plug, Pipe, 1/8 Inch NPT	ĺ			1	İ	-		1	Ì					İ	
-3 -3	538927		Manifold Assembly, Rear				1		ĺ		1						- 1	İ
.0	330327		ATTACHING PART					İ	l	-					1			ļ
	2439		Nut, Hex	l			4	ļ	- }	-	4			{			-	-
-4 -5	MS35338-45		Washer, Lock	l	,	.	4	ļ	}	}	4						- 1	ı
·5 -6	22533		Washer, Plain	ŀ	}		4		- {	ļ	4							-
U	22300		* * * *						1								Ţ	١
-7	36151J		Clamp, Hose				12				12		1				- 1	-
-8	539487		Clamp Assembly, Hose				2			ı	2							- 1
.9	639660-13	&	Hose, Intake Manifold				8				8						-	
-10	537874		Tube Assembly, Intake Manifold No. 2	l	ļ		1		- {	- }					l		ાં	
-11	537875		Tube Assembly, Intake Manifold No. 3, 4	١.			2		١	- {	2		İ					
-12	537873		Tube Assembly, Intake Manifold, No. 1, 5, 6	l			3			1	3					ll	ļ	
			ATTACHING PARTS										}			[ ]	ļ	ļ
-13	24835		Bolt, 1/4 x 7/8 Inch Long				24				2/		Ì				1	
-14	MS35338-44		Washer, Lock				24				24		-	}			ļ	
-15	20522		Washer, Plain	1			24				24	*					ı	-
		_	* * * *				6			-	6			ļ		1	- 1	ļ
-16	536413	&	Gasket, Intake Manifolds	l			1		- 1	İ	1							ı
-17	538882		Tube Assembly, Balance			ĺ	2	lÌ	Ì	ļ	2					1		
-18	625411		Clamp, Balance Tube	l	ļ		_				-						.	
			ATTACHING PARTS				4		١	- [	4				-			
-19	22661		Nut, Self-locking	l			4		ĺ	1	- 14		}		1		ił	
20	53236450		Felt, Sump-to-Balance Tube				2			l	2		}					
-20 -21	628023	$\odot$	Carburetor, Model PSH-5BD (Bendix No. 391735-1)		1		1				1							
-21	020023	_	ATTACHING PARTS				ľ			-								١
-22	2439		Nut, Hex				2		ļ	- }	2		}					١
-22	MS35338-45		Washer, Lock			}	4	{	}	- }	4				1	1		į
·24	22533		Washer, Plain		Ì		4			- {	4			1				
-25	537961		Bolt, 5/16 x 1 Inch Long	l			2		- (	- [	2					l		
			* * *						ı	1	1				ĺ	,		
-26	35985	&	Gasket, Carburetor		•	ĺ	1		l	-	1	}						
				١					}	ļ	1	1	1		1			- 1
					1				1		- }				1			١
										-					ł			١
										ĺ						] .	.	- 1
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				l			l	} ]	- }	1	1							
				l					ĺ									
										[		}	1		1			į
•						1					ļ							ļ
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				1							Í							
														ļ	1			
_	NOTE:																	. !
	① See Secti	on V	I for Specification Applications.	1			1							Ì		1		
	-		•															

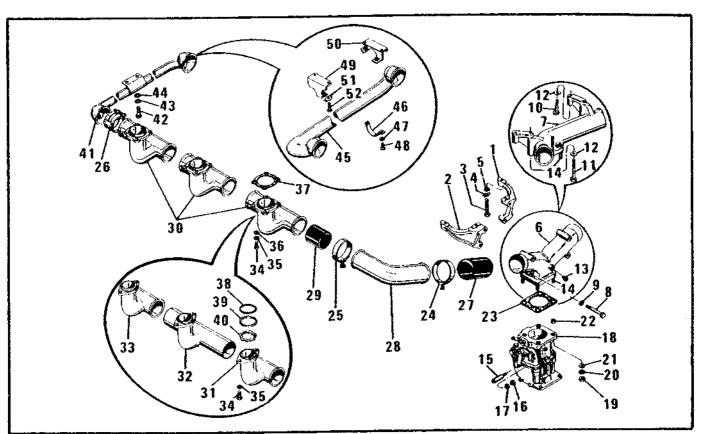


FIGURE 52 - INDUCTION SYSTEM MODELS 0-470-A,J,K,L,R,S,U

FIG.	PART			Qι	) A	N,	TI.	ΓY	-	PEI		A	SS	ΕN	BL	Y	
INDEX	NUMBER	12345 DESCRIPTION /	Ą	В	E	G	J	Κ	L.	M	P	R	S	U		1	工
52-1	536036	Bracket Manifold Riser, Right Side	1				1	1									ļ
-2	536037	Bracket, Manifold Riser, Left Side	7	. ,		ļ	1	1							ı	١	
		ATTACHING PARTS					ĺ			}						İ	
-3	AN75A15		4				4	4	İ	ł		,			!		
-4	501868	Washer, Tab	4			ŀ	4	4									
-5	2473	Washer, Plain	4			l	4	4	ŀ						ļ		
		* * * *										:				-	
-6	538361A1	Riser Assembly, Manifold	1				1	1		1	}	١.				ŀ	ŀ
-7	627658A1	Riser Assembly, Manifold					l	1	1			1	1	1		Ì	
		ATTACHING PARTS					ļ									į	
.8	AN75A26	Bolt	4	ŀ			4	4				İ	İ			١	
-9	2473	Washer, Plain	4				4	4								Ì	j
-10	538999	Bolt, 5/16 x 3-5/8 Inch Long						1	2	İ		2	2 4	<b>J</b> 2			Ţ
-11	AN75A15	Bolt		ĺ		1		1	2			2	2	2		ļ	
-12	2473	Washer, Plain		l		1		•	4	1		4	4	4		ļ	
		* * * *		]	ŀ		l.			1				١.	ļį		
-13	629518-1H	. Plug, Pipe, 1/8 Inch NPT	1	1			1		1	1	ļ		1	1			
-14	401971	- † . Stud, 5/16 x 1-5/8 Inch Long	4				4		4			4	4	4		ļ	
-15	536432	Extension, Throttle Control	1				1	1	1		Į	1					İ
		ATTACHING PARTS			١		}	1		}				1		Ī	
-16	22661	Nut, Hex	1				1	1	1		ł	1			l		
-17	20522	Washer, Plain	1	ļ			1	1	1			1					
-18	538872	O Carburetor, Model MA4-5			ļ		1				ļ						
-18	633027	O Carburetor, Model	1		l	ļ		1	1	ļ				1			
-18	641139	O Carburetor, Model MA4-5			ĺ	1			ļ	Ì	ĺ	1	1		]		

FIG.	PART		·.			UA						_				BL'	Υ
NDEX	NUMBER	I	12345 DESCRIPTION	A	В	E	G	j	K.	L	M	P	R	S	비	$\bot$	
52-18	641860	<del></del>	Carburetor, Model MA4-5									Ì			1		
·19	2439		Nut, Hex	4		ļ		4		4				4			}
-20	MS35338-45	1	Washer, Lock	4		. 1			- 1	4		- }			4	}	į
-20	2473		Washer, Plain	4			- [4	4	4	4		-	4	4	4		1
-21	2413		* * * *	1		1					}	l	ı			}	}
22	COCOCA			4			Į,	4	4	4			4	4	4	ł	
-22	535961		Diecke' Calphieror moduring	h						1				1	1	ĺ	1
-23	35985	Č	Gasket, Carburetor	1					l i	4		1			4		-
-24	631972		Clamp, Hose	6	ŀ		ļ	6	'			ļ	·				
-25	36151J		Clamp, Hose	ľ	Ì		- }	Ü	2	2		Ì	12	12	2	Ì	
-25	36151L		Clamp, Hose	2			- }	ว	2						2	- }	-
-26	539487		Clamp Assembly, Hose	12			- 1	2	-	14			4	۲	4		
-27	535832	&	Hose, Riser-to-Elbow	14				Z	٦	٦	} {		_	,	ارا	- }	
-27	639660-13		Hose, Riser-to-Elbow					_		2			2	2	4		
-28	535681		Tube, Elbow	2			1	2	2								ĺ
-28	539758		Tube, Elbow						Ì	2							1
-28	632323		Tube Assembly, Elbow										2		2		
-29	639660-13		Hose, Intake Manifold	8	}					8					8	İ	ļ
-30	629138	_	Tube Assembly, Intake Manifold		ł				6	6			6	6	5	-	
-30	629325		Tube Assembly, Intake Manifold No. 6		1					į	1				1		Ì
-31	535484		Tube Assembly, Intake Manifold No. 2	1		<b>!</b>											1
-31	538554		Tube Assembly, Intake Manifold No. 2					1									
	535079		Tube Assembly, Intake Manifold No. 3, 4	2													
-32			Tube Assembly, Intake Manifold No. 3, 4	1				2	ļ	ĺ					ļ		
-32	538554		Tube Assembly Intole Manifold No. 1 E.S.	3				_						ĺ			
-33	535076		Tube Assembly, Intake Manifold No. 1, 5, 6	ľ				3				ĺ		}			
-33	538554		Tube Assembly, Intake Manifold, No. 1, 5, 6	1				۲					}	1	li		
			ATTACHING PARTS	İ				İ					{				-[
-34	24835		Bolt, 1/4 x 7/8 Inch Long	<b>F</b> 2	1					24			•		24		
-35	MS35338-44		Washer, Lock	12	!	ļ		12		24	1	í	24	Γ.	3.		
-36	20522		Washer Plain	1	1	[			24	24			₽4	24	24		Ì
			* * * *	-					1.	1.	Ì			_	ا ا		ĺ
-37	536413		Gasket, Intake Manifold				Ì	l	6	6		}	6	6	6		
-38	536740		Seal, Intake Manifold Tube	16				6				ĺ	-				
-39	534365	_	Washer, Intake Manifold Tube	€			١	6		Ì		1					
.40	534360		Spring, Intake Manifold Tube		3			6									
-41	630626		Tube Assembly, Balance					1	1	1			1	1			
-41	630628		Tube Assembly, Balance		1										1		-
-4 I	020820			İ													
		<u> </u>	ATTACHING PARTS				1	ړ (		r			rf		rf		ļ
-42	530346		Screw, Hex Head, 5/16 x 7/8 Inch Long			1			,				rf				
-43	13XX202B		Washer, Lock		-					ri			rf		i t		
-44	2473	2	Washer, Plain					"1	ľ	ri	1		lu		rf		1
			* * *	1.	$\cdot$		1	1			1				İ		-
-45	535912		Tube Assembly, Balance			ĺ		ĺ	1								
-46	535787		Clamp, Balance Tube	] 2	<u> </u>		ļ		1								ļ
_			ATTACHING PARTS	I					1	1	ļ						
<b>A7</b>	Mencano 44		Washer, Lock	4			-		1			}					
-47	MS35338-44		VydSirti, LOUK	Ł											]		
-48	AN520-416-12		Screw, Machine	1	•					-					1		
			* * * *	ļ,	, }									1	Į		1
-49	535785		Bracket, Balance Tube, Left Side			1	-			-	ļ				1		
-50	535784		Bracket, Balance Tube, Right Side	1					1								ļ
			ATTACHING PARTS		Ţ				Ì	1		}					Ì
	501868		Washer, Tab	4	H				1			ļ					1
, E 1			studied, for a conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservatio			1	1	1	1	1	•	Ł		1		ı l	ĺ
-51 -52			Corona Hay Head E/18 v 7/8 Inch Long	1.4	11	1	1	Ì	1		1	ł	1	}	1		
-51 -52	530346		Screw, Hex Head, 5/16 x 7/8 Inch Long	4	1												

① See Section VI for Specification Applications.

<sup>2</sup> Reference Figure 25.

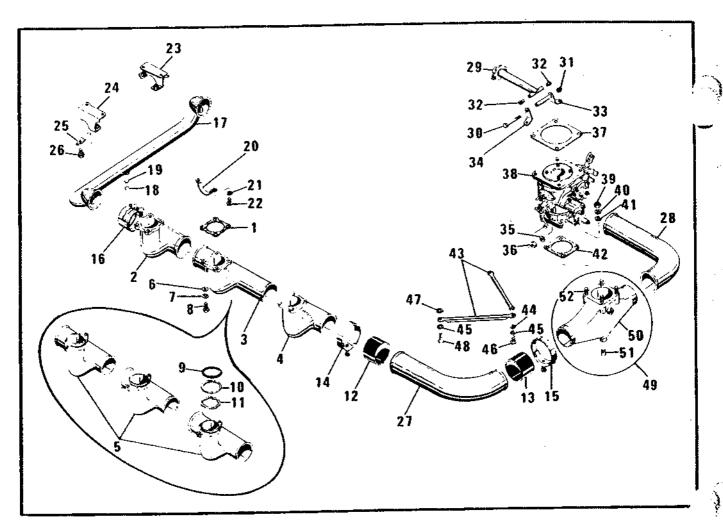


FIGURE 53 - INDUCTION SYSTEM MODELS 0-470-B,E,M

F		1						114	1 N	TI	ΤY	P	ER	A	SS	ΕN	IB!	LY		٦
FIG.	PART Number		12345	DESCRIPTION		Α							М						$\exists$	
53-1 -2 -3 -4	536413 537873 537875 537874	&	Tube Assembl	Manifolds y, Intake Manifold, No. y, Intake Manifold, No. y, Intake Manifold, No.	1, 5, 6 3, 4		6 3 2 1						6 3 2 1							
-5	538554		Tube Assembl	y, Intake Manifolds				6											ļ	
-6 -7 -8	20522 MS35338-44 24835		Washer, Lock	ATTACHING PA 5/16 Inch			24 24 24	12					24 24 24							***************************************
-9 -10 -11	536740 534365 534360		Washer, Intake Spring, Intake	lanifold Tube e Manifold Tube Manifold Tube			0	6 6 6 8					8							
-12 -13 -14	639660-13 639660-13 36151J	& &	Hose, Riser-to Clamp, Hose	Manifold			8 2 4	16					2 8 8							
-15 -16 -17 -18 -19	631972 539487 536332A1 536326 538433		Clamp Assemb Tube and Value. Ring, Intern	bly, Hose	· · · · · · · · · · · · · · · · · · ·		2 1 1	2 1 1					2 1 1							

FIG.	PART		Τ	Q	U/	N/	T ) 7	ſΥ	' F	۲EI	R	Α	SS	ΕN	1BI	LY	
INDEX	NUMBER	12345 DESCRIPTION	A	В						М		R	S	Ū			
	L		+	2	_	<b>—</b>		_	Г	2	1	1			П		
53-20	535787	Clamp, Balance Tube		۲ ا	-					<u>'</u> ا			Ì				
•		ATTACHING PARTS			_				1	١.	İ		[				l
-21	MS35338-44	Washer, Lock			4				ļ	4	•						ļ
-22	AN520-416-12	Screw, Machine	}	4	4	ļ			ļ	4	ļ			'	1		ļ
		* * * *			١.	1				١.		ļ		Į			1
-23	535784	Bracket, Balance Tube, Right Side			ļ t					1			1				
-24	535785	Bracket, Balance Tube, Left Side		1	1	[				1				ĺ			
		ATTACHING PARTS	ı	}		'			}	ĺ			}				.
-25	501868	Washer, Tab, 5/16 Inch	1	4	4		}	İ		4				}			
-26	AN75A15	Bolt		4		Ì	}					İ		1			
-26	537961	Bolt, 5/16 x 1 Inch Long						Ì	Ì	4		ļ			İ		i :
-26	535960	Bolt, 5/16 x 13/16 Inch Long			4			Ì		Ì			1			ļ	
-20	333360	Bott, 3/10 x 13/10 men cong	ĺ										Ì		į		
-27	536871	Tube, Elbow, Left Side		1	1					1			ļ.			j	
-28	536872	Tube, Elbow, Right Side		1	1					1	ļ				1		
-29	538469	Bracket Assembly, Carburetor Support	ļ		1				}	1	}		ļ	}			
-30	AN4-26A	Bolt		1					}	1	}			}			
-31	MS21083N4	Nut, Self-locking		1					Į	1	}						
-32	538468	Bushing, Carburetor Support Bracket		2	2	Ì			ĺ	2	1			•			
-33	538470	Bracket, Carburetor Support, Right Hand		1	1		ĺ		1	1	İ	1					
-34	539113	Bracket, Carburetor Support, Left Hand		i	1					1				}			
-35	20522	Washer, Plain		1	1					1							
	20522	Nut, Self-locking		li				ļ		1						ì	
·36		& Gasket, Carburetor Air Scoop		1	,		j			1							
-37		D Carburetor, Model PSD-5C (Bendix No. 391435)		'	li					'		1					
-38	5555.1	D Carburetor, Model PSD-5C (Bendix No. 391668-2).		1	1 1				İ	1	İ					•	
-38	627178	-	1	Ι'		-	l			Ι.			ł	İ			
•		ATTACHING PARTS	1	١.	١.				}	٦			ļ		l	1	ļ
-39	2439	Nut, Hex		4				İ	}	4	ł					İ	ļ
-40	M\$35338-45	Washer, Lock		4	4				}	4	\$			}			į
-41	2473	Washer, Plain		4	4	ļ	İ		İ	4	1	-	ŀ				
		* * *			١.					١.		Į			ì		l
-42		& Gasket, Carburetor			1		}			1	-		ļ	1		ļ	
-43	537939	Bracket, Crankcase-to-Riser		2			ļ	ļ	-	}				1	ļ	}	
		ATTACHING PARTS							ĺ	ł		Į		{			1
-44	2473	Washer, Plain		1	İ					1	1			ļ			
-45	MS35338-45	Washer, Lock		3						3		1		-			
-46	536795	Screw, Hex Head, 5/16 x 3/4 Inch Long		1						1				Į			
-47	538996	Spacer, 11/32 Inch x 3/16 Inch Thick		2			{			2				1	Ì	-	ĺ
-48	537750	Screw, Hex Head, 5/16 x 1-43/64 Inch Long		2			ļ			2		ļ			1		
10	307730	* * * *	1			ĺ	ļ								l		
-49	538434A1	Riser Assembly, Manifold	1	1	1		}			1	1	-			-		
-50	No Number	Riser, Manifold		ns	ns	:				ns	:						
-50 -51	629518-1H	. Plug, Pipe, 1/8 Inch NPT		2			}	•		1	}	Ì			1		
-52	401824	† . Stud, 5/16 x 1-1/2 Inch Long		3	4			1		4	Ì		1				-
-32	TO 104 T		1							ļ							
											}	}					Ì
																1	
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												1			}		1
								}									
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-10TE:																	
^ -		and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o			1	ł	1	1		i	1	1	- 1	(	1	1	

① See Section VI for Specification Applications.

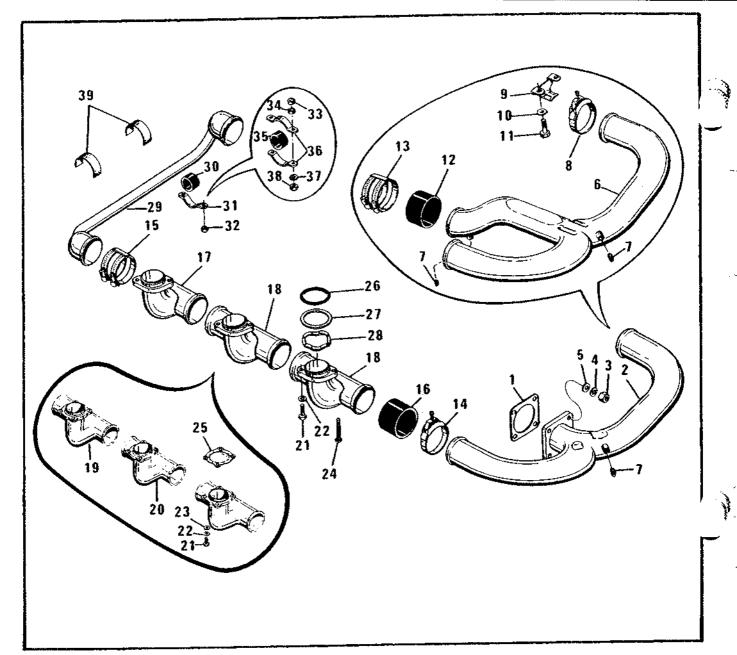


FIGURE 54 - INDUCTION SYSTEM MODELS 10-470-C,H,J,K,N

FIG.	PART												SS					_]	
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	I	Н	J	K	Ĺ	. M	N	P	R	S	Ū	Υ	
54-1	35985	& Gasket, Manifold	1			1	ļ	1	1										ĺ
-2	628336	Manifold Assembly, Rear		]				١.	ו				ļ.,	1	1		1	ıl	İ
-2	629599	Manifold Assembly, Rear	1	]				1		ļ			1						
		ATTACHING PARTS				Ì	١												
-3	2439	Nut, Hex	4					4	4			1	1	l					~.
.4	MS35338-45	Washer, Lock	4					4	4		1								ĺ
-5	22533	Washer, Plain						4	4							]			
		* * *								1		-	١.			ļ	İ		ĺ
-6	629601	Manifold Assembly, Rear								١.			יו		ļ	Ì		, ,	<b>.</b>
-6	628383	Manifold Assembly, Rear		ļ	ĺ			١.	١.			ĺ	١.	ļ					y
-7	629518-1H	Plug, Pipe, 1/8 Inch NPT	[1	ļ		ļ	Ĭ	}	<b>[</b> ]	ĮZ		ĺ	} •	}	1	ļ	1		

FIG.	PART					C	υA	LIT	Υ	P	EF	ł	AS	SEN	MBL	Y	
INDEX	NUMBER	12345	DESCRIPTI		C	D	E	G	H	J	⇁	L	M	P	R	S	ŪΝ
54-8	AN737TW82				ł					}	1						
.9	628390	Bracket, Su	•	mp	1						'	İ					
				ING PARTS	ĺ											ļ	
-10	MS35303-36				1						2						
-11	538949	Washer, Pla		* * *							2						
-12	639660-13	& Hose, Thro	ttle Body-to-Manifo	old				1			1	ļ	İ			-	}
-12	539023	& Hose, Thro	ttle Body-to-Manifo	old	ļ					ŀ			1	H		- [	ļ
-13	539487	Clamp Asse	mbly, Hose		1						1	- [				ĺ	-
-13	629163	Clamp Asse	mbly, Hose									- 1	1	1		-	-
- 14	36151J	Clamp, Hos	ie		ļ				! 1	16	16					- }	
- 14	36151L	Clamp, Hos	se		12				12				- 1	3	}	}	
∙15	539487	Clamp Asse	mbly, Hose		12	li			2		2	-	4	•		}	
-16	639660-13	& Hose, Intak	e Manifold		8		İ	İ	8		8	į	[	3		}	
-17	628381			ld No. 6						٠,١	1			İ		-	
-18	538554			o. 1, 2, 3, 4, 5 · · · · ·					١. ا	5	5		١.			-	
-19	629325			ld No. 6	1	ļļ		-	1					!		ļ	- {
-20	629138	Tube Assy,	Intake Manifold N	o. 1, 2, 3, 4, 5 · · · · ·	5				5					1		ł	
			ATTACI	HING PARTS		ļ ļ											
-21	24835	Bolt, 1/4 - 2	20 x 7/8 Inch Long		24			1	24	,			2				
-22	MS35338-44	Washer, Lo	ck		24	1			24	12	12	İ	2				
-23	20522	Washer, Pla	in		24	1		1	24				2	4		İ	
-24	535631										1		Ì				
			*	* * *		Ì						į	- }		1		
-25	536413	& Gasket, Int.	ake Manifold		6	}			6				.  €	}		- 1	-
-26	536740	& Seal, Intake	Manifold Tube .		l	1					6			ļ		-	
-27	534365	•		,	l				ĺĺ		6		}	1	}	- 1	
-28	534360				١.						6		1.			- }	- }
-29	626527				1				1 6	1	7		1	'		İ	Ì
-30	626530								2	2		Į	- {				-
-31	625411	Clamp, Bala			<sup>2</sup>				2	2		ĺ	1		1		
			ATTACI	HING PARTS					{			ļ					ı
-32	22661	Nut, Self-lo	cking		4				4	4		{					
			*	* * *	ļ					ł	ا،	- {		.			Ì
-33	2472										4	1					1
-34	25164				1	Į I				ı	4	}	1	; ,		}	Ì
-35	628597				1				]	į	2	Ì	4				
-36	628416	Clamp, Bala									4	}	1	1			
)			ATTACI	ING PARTS								}					
-37	MS35338-44									ļ	4	}	19	i			
-38	2437	Nut, Hex			1			-		l	4	ł	4	<b>'</b>	1 1		
^^	F00004 F0	Est. C		* * *	2			1	2	2	,	Ì			}	İ	
-39	53236450	Feit, Sump	-to-parance rube .		1				ا ٔ ا	أ	۱			-		ł	j
<u>)</u>															}		
;													{			}	
																- {	
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NOT!												ĺ					
0	No. 2 Cylinder	Only.						ł					ļ	1	[	.	

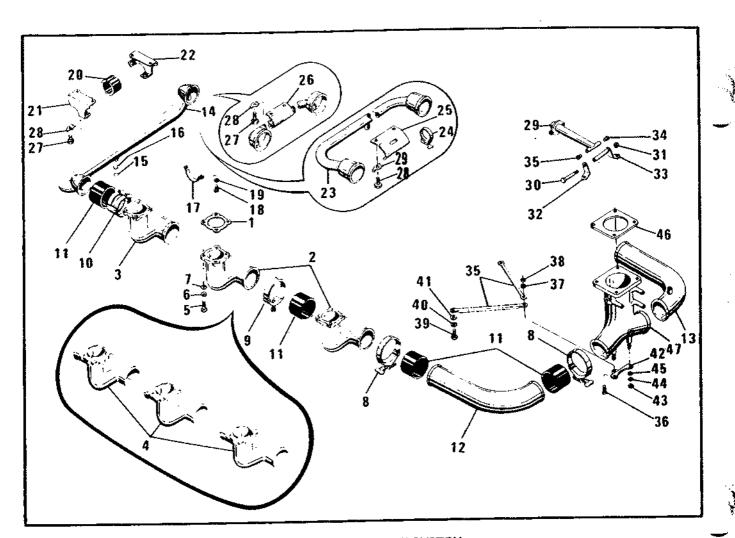


FIGURE 55 - INDUCTION SYSTEM MODELS 10-470-D,E,G,L,P,R,U,V

FIG.	PART			Q	ŲÆ	W	Ŧſ	ΓY	P	ER	1	٩SS	ΕN	18	LY			į
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	H	J	Κļ	I	ΛN	P	R	S	V	У	:
55-1	536413	& Gasket, Intake Manifold		6	6		6	ļ	Ì	- 16	<b>;</b>		6	6		6	6	
-2	629138	Tube Assy, Intake Manifold, No. 1, 2, 3, 4, 5		5		Į				!	•	1		İ		5	5	
-3	629325	Tube Assy, Intake Manifold, No. 6		1					ļ	. Į 1	П		_			1	1	
-4	629138	Tube Assembly, Intake Manifolds			6	ļ	6		ļ				6	6			i	ĺ
		ATTACHING PARTS																
-5	24835	Bolt, 1/4 - 20 x 7/8 Inch Long		24			24		}	2	4		24		ļ	24	24	نسند
-6	MS35338-44	Washer, Lock	ļ	24	24		24	{	İ	2	4		24	E	1	24	24	
-7	20522	Washer, Plain		24	24	1	24			2	4		24	24	1	24	24	
		* * * *								[				]_				
-8	631972	Clamp, Hose		8	8		8		-	8		1	3	8		8		İ
-9	36151L	Clamp, Hose		8			8			, ,	3		-	8	,		8	ļ. ~~~
-10	539487	Clamp Assembly, Hose		2			2		. }	1	- I		•	2		2		į.
-11	639660-13	Hose, Intake Manifold		10	10	4	10			1	0	-	10	10	H	10	10	نب.`
-12	627011	Tube, Elbow, Left Side			1		1			'	1		1	1	1			
-12	626744	Tube, Elbow, Left Side	1	1		ŀ		} }			Ì			١.			וו	ĺ
-13	629595	Tube, Elbow, Right Side			1	•	ון				1		1	}	ĺ			
-13	629597	Tube, Elbow, Right Side	1	1								-	]	Į		ļ	1	i `}-~
-14	627250A1	Tube and Valve Assembly, Balance		1			1							{	{			V
-15	536326	. Ring, Internal Retaining		1			{				{	-	ĺ		ļ	1		ويد. س

NDEX NUMBER 12345 DESCRIPTION CDEFGHJKLMNPRSUV	FIG.	PART	İ	T	Q	UΑ	NT	IT'	ΥI	ΡE	R	Δ	SS	ΕN	1BL	. Y		_
11   155787   Clamp, Bracket   ATTACHING PARTS   2   2   3   3   4   4   4   4   4   4   4   4	INDEX				o							N	N	Р	R	s		V
ATTACHING PARTS  18 ANS20-416-12 Screw, Hex Head	55 -16	538433	. Valve, Manifold Drain														1	
18	-17	535787	Clamp, Bracket		Z		- }					ļ				ļ	}	
1			ATTACHING PARTS	1					1					1		- {	į	
19 MS35338-44   Washer, Lock   4   20   21   22   22   22   22   22   22	-18	AN520-416-12	Screw, Hex Head			}				ļ						-	İ	
20   627254   Tube, Balance Tube Clamp   2   35785   Bracket, Balance Tube, Left Side   1   1   1   2   2   2   2   2   2   2			Washer, Lock		4							l				i	ļ	
21 535785 Bracket, Balance Tube, Left Side				i				ļ					{			ļ	l	
22 535784 Bracket, Balance Tube, Right Side   1	-20	627254	Tube, Balance Tube Clamp	1	2				ļ	l						}		
23 627011 Tube Assembly, Balance	-21	535785	Bracket, Balance Tube, Left Side		1						-							
24 AN737TW46 Clamp, Balance Tube 25 632280 Bracket, Balance Tube 26 630627 Tube Assembly, Balance  27 537961 Bolt, 5/16-18 x 1 Inch Long 28 501868 Washer, Tab  29 538469 Bracket Assembly, Air Throttle 29 538469 Bracket Assembly, Air Throttle 30 AN4-26A Bolt 31 NS2108348 Nut, Self-locking 31 MS2108348 Nut, Self-locking 32 634806 Bracket, Air Throttle Support, Leif-hand 33 634807 Bracket, Air Throttle Support 34 538468 Bushing, Air Throttle Support 35 627681 Bracket, Crankcase-to-air throttle 36 635666 Screw, Hex Head, 5/16-24 x 5/8 Inch Long 37 MS35338-45 Washer, Lock 38 2439 Nut, Hex 39 537750 Screw, Hex Head, 5/16-18 x 1-1/8 Inch Long 40 13XX2026 Washer, Lock 41 2473 Washer, Plain 42 627836 Bracket, Air Throttle Support, Lower 43 2437 Nut, Hex, 1/4 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	-22	535784	Bracket, Balance Tube, Right Side		1	1		-	İ		١,		}		ij			•
25 632280			Tube Assembly, Balance										1				;	1
ATTACHING PARTS	_		Clamp, Balance Tube				}	ļ			1,						4 }	1
ATTACHING PARTS  27 537961				1	İ	1		,			'			1	١, ا		' '	'
-27 537961 Bolt, 5/16 - 18 x 1 Inch Long	-26	630627		1		'		'	1					•	'			
29 538469 Bracket Assembly, Air Throttle 29 54 1643 Bracket Assembly, Air Throttle 30 AN4-26A Bolt 31 MS21083N8 Nut, Self-locking 32 634805 Bracket, Air Throttle Support, Left-hand 33 634807 Bracket, Air Throttle Support 34 538468 Bushing, Air Throttle Support 35 627681 Bracket, Crankcase-to-air throttle 36 736866 Screw, Hex Head, 5/16 24 x 5/8 Inch Long 37 MS35338-45 Washer, Lock 38 2439 Nut, Hex 39 537750 Screw, Hex Head, 5/16 18 x 1-1/8 Inch Long 40 13XX2028 Washer, Lock 41 2473 Washer, Lock 42 627836 Bracket, Air Throttle Support, Lower 44 627670 Bracket, Air Throttle Support, Lower 45 20522 Washer, Plain 46 627368 & Gasket, Air Throttle Support, Lower 46 627368 & Gasket, Air Throttle Support, Lower 47 2437 Nut, Hex, 1/4 48 MS35338-44 Washer, Plain 49 2437 Nut, Hex, 1/4 49 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4											}	}	-					
29 538469 Bracket Assembly, Air Throttle	-27	537961	Bolt, 5/16 - 18 x 1 Inch Long	1					İ	İ		}		1 '	3 '			
29   53-646   Stracket Assembly, Air Throttle   1   1   1   1   1   1   1   1   1	-28	501868	Washer, Tab	1	4	4		4	-					4	4		4	
29   53-646   Stracket Assembly, Air Throttle   1   1   1   1   1   1   1   1   1			* * * *	1			]		-	-								
30 ANA-26A Bolt			Bracket Assembly, Air Throttle	ļ	1	١,		.			١,	ĺ		١,	١,		'	;
30 AN4-27A Bolt	-29		Bracket Assembly, Air Throttle	į	١.			- 1		Ì	'			1.				•
31 MS21083N8					ין	'	ÌΙ	١ }						'	['		<b>, '</b> '	
32 634805 Bracket, Air Throttle Support, Left-hand					١,		} }	.			1,	Ì	1		١,		1	1
Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Support Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throttle Air   Sacket Air Throt					1			- 1			;	1		1.				
-33 538468 Bushing, Air Throttle Support					1			1		-	'		İ	3.	1.	i		
-35 627681 Bracket, Crankcase-to-air throttle					1.			· I	İ	İ	1.			₹.	1	ļ	l '	ı ·
ATTACHING PARTS  -36					12	14				l			Ì	,			2	
-36 535666	-35	627681		İ	1	14		۱ ۲			12		}	1	ľ		-	-
Screw, Fig. 1	•			1	}_		} }	.	1		١.		İ	,	1.			,
-38 2439	-36	535666	Screw, Hex Head, 5/16 · 24 x 5/8 Inch Long		1 -		i I	1	Ì	-				!!	1		1	•
-38 537750 Screw, Hex Head, 5/16 - 18 x 1 - 1/8 Inch Long 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		MS35338-45			1.					1	'	Į		{¦	1.		1	ı
Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stewn   Stew									ĺ	İ	'	Į	1		1.	ļ	i i	1
-42 627836 Bracket, Air Throttle Support, Lower					Z	2		۷					1			ļ		
-42 627836 Bracket, Air Throttle Support, Lower					12	12		2	ļ	}			-					
-42 627836 Bracket, Air Throttle Support, Lower	-41	2473	•	1	12	12	1	۱ ۲	1	ļ	1			1	ľ		~	ľ
-42 627670 Bracket, Air Throttle Support, Lower  -43 2437 Nut, Hex, 1/4  -44 MS35338-44 Washer, Lock  -45 20522 Washer, Plain  -46 627368 & Gasket, Air Throttle  -47 **** Throttle Assembly, Air  OTE:	40	007000				1		1		ĺ	1	1	ļ	1	1	,	1.	
ATTACHING PARTS  .43					1	}			İ	İ	}		ļ		Ì		1	1
-43 2437 Nut, Hex, 1/4	-42	62/6/0		1	-	1		- }						ļ	1	ļ		İ
44 MS35338-44 Washer, Lock				ł	١,		1	,	- {	-	1	,		12	۱,		2	b
45 20522 Washer, Plain				1					-	1				15	15		2	12
46 627368 & Gasket, Air Throttle					14	1	1 1			Ì	- 1	- 1					-	ľ
-46 627368	-45	20522				1		۱			[ '	1		-	-		ŀ	
-46 62/368 & Gasket, Air Inrottile -47 *** Throttle Assembly, Air			·		1	1		1			- } -	1		1	1		1	1
OTE:		627368	& Gasket, Air Inrottle	j		1		٠,		İ		f		rí	f rf	-	rf	r
	-47	क्रम	I hrottle Assembly, Air		]"	1''		~							1			ĺ
				Ţ	}	ı		}	}	}	Ì							
				-						-					ļ.			
							}				ļ	ļ						1
							} }			ļ	1							
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				ĺ				}		Į				}				
							1	}	ļ	Ì	}	-	}					
	T OTE.								Ì	-		1	ļ	1			1	
*** See appropriate Fuel Injection Figure.			And the second					1		ĺ	1	ļ	Ì					
	*** Sei	e appropriate Fue	Injection Eigure.	İ	İ	1			!	ı	ţ	ļ	ļ	1	ł	į	,	ł

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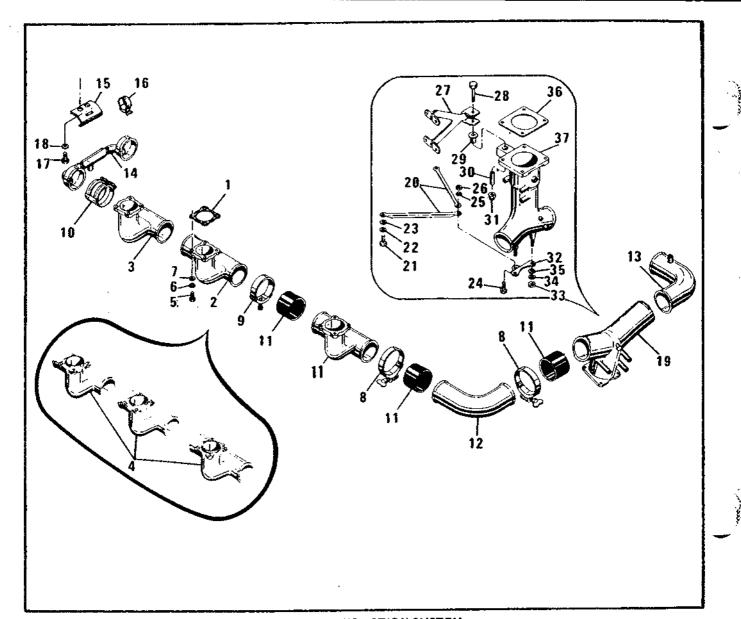


FIGURE 56 - INDUCTION SYSTEM MODELS 10-470-F,S

FIG.	PART		Т	Q	U/	/N	TI.	ΤY	- 5	)E	R	Α	SS	EN	1BL	Y	
INDEX	NUMBER	12345 DESCRIPTION	<u>c</u>	D	E	F	G	H	J	K	L	М	N	P	R	S I	<u>JV</u>
56-1	536413	& Gasket, Intake Manifold		Ì		6					•		]		(	5	
-2	629138	Tube Assy, Intake Manifold, No. 1, 2, 3, 4, 5	.	1		5		1									1
-3	629325	Tube Assembly, Intake Manifold, No. 6	.	1		1	Ì										
-4	629138	Tube Assembly, Intake Manifold		].		ļ										6	
		ATTACHING PARTS				ļ				ļ						1	
-5	24835	Bolt, 1/4 x 7/8 Inch Long				24	ļ							1	2	4	
-6	MS35338-44	Washer, Lock			-	24							}		2	4	
-7	20522	Washer, Plain	•	ĺ		24	İ					Ì			2	4	
		* * *	1			ļ	}							]			
-8	631972	Clamp, Hose		-		8			1		ļ	İ		i	F J	8	11
.9	36151L	Clamp, Hose				8		ļ	ļ				١	}		В	11
-10	539487	Clamp Assembly, Hose	. ]			2	•	ļ		1	}				Į } ·	2]	1
-11	639660-13	& Hose, Intake Manifold	. }			10			ļ						1	q	ĺ
-12	535681	Tube, Elbow, Left Side	.			1			Ì		İ			ĺ		ı	ł

Fre 1	DADT		Γ	QI	JΑ	N1	ΓI3	ſΥ	F	EF	3 /	ASS.	EME	3L Y	,—
FIG.	PART NUMBER	12345 DESCRIPTION	6									_	PF		
L.,			t-	-	-	Ė	ŭ		Ť		<del>-                                     </del>		+	1	
56 - 12	627011	Tube, Elbow, Left Side		l		1	İ						j	'	
-13	62782 <b>0</b>	Tube, Elbow, Right Side		'		'								1	
-13	629595	Tube, Elbow, Right Side				1								'	
-14	630628	Tube Assembly, Balance	ĺ			'					- }			1	
-14	630627	Tube Assembly, Balance				1	•				ļ			li	
-15	630296	Bracket, Balance Tube		ĺ		1	1			}	}			l i	
-16	AN737TW26	Clamp, Balance Tube	ļ			'				i	Ì			'	
		ATTACHING PARTS	]			_								İ	}
-17	530346	Screw, Hex Head, 5/16 x 7/8 Inch Long		i	Ì	2	Ì							14	[ ]
-17	537961	Screw, 5/16 - 18 x 1 Inch Long				٦		Ì		Ì	-		{	4	
-18	13XX202B	Washer, Lock			ĺ	2					ł			4	
-18	501868	Washer, Tab		Į			1	1			Į			"	
		* * * *				l rf				}		} }			
-19	***	Throttle Assembly, Air (See Figure 61)	İ			} ''								2	
-20	627681	Bracket, Crankcase to air throttle	1						}		Ì	1		*	
		ATTACHING PARTS						ļ	}	{				}_	
-21	537750	Bolt, 5/16 - 18 x 1-1/8 Inch Long		1							İ	İ		2	
-22	13XX202B	Washer, Lock			Ì		ļ			ΙÍ				2	
-23	2473	Washer, Plain		}			ĺ			$  \  $	Ì			2	
-24	535666	Screw, Hex Head, 5/16 x 5/8 Inch Long						}			- {	ļ		1	
-25	MS35338-45	Washer, Lock		1							- {	ļ		1	
-26	2439	Nut, Hex				1				{	-	}	ļ	1	
	2.44	* * * *	Ĺ	1					}						
· <b>2</b> 7	630474	Bracket Assembly, Air Throttle	ŀ			ļ	İ		}		- {		1	1	}
-28	537728	Bolt, 1/4 - 28 x 25/32 Inch Long				1			}					1	1
-29	629353	Bushing, Air Throttle Support				{		ĺ						2	
-30	629354	Sleeve, Air Throttle Support	1		ł										
-31	22661	Nut, Self-locking			Ì						İ			11	1 :
-32	627836	Bracket, Air Throttle Support, Lower		1				İ						1	
		ATTACHING PARTS		ı			[	Į			ļ				
-33	2437	Nut, Hex	į	ļ				{			- {			2	
-34	MS35338-44	Washer, Lock		ļ				{	}	}	Į	ļ	} }	2	
-35	20522	Washer, Plain				}			}		- 1			2	
-		* * *	1		l	}	1	ĺ					<b> </b>		1
-36	627368	& Gasket, Air Throttle	1											1	
-37	***	Throttle Assembly, Air (See Figure 65)	ı		İ	ĺ	ŀ				-		Ιİ	-   r1	
														1	
				}	İ										
				}					ļ		1	•			1
				}						]					<b>,</b>
				}				1	ļ				) [		1 1
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-					}		}				ļ			-	
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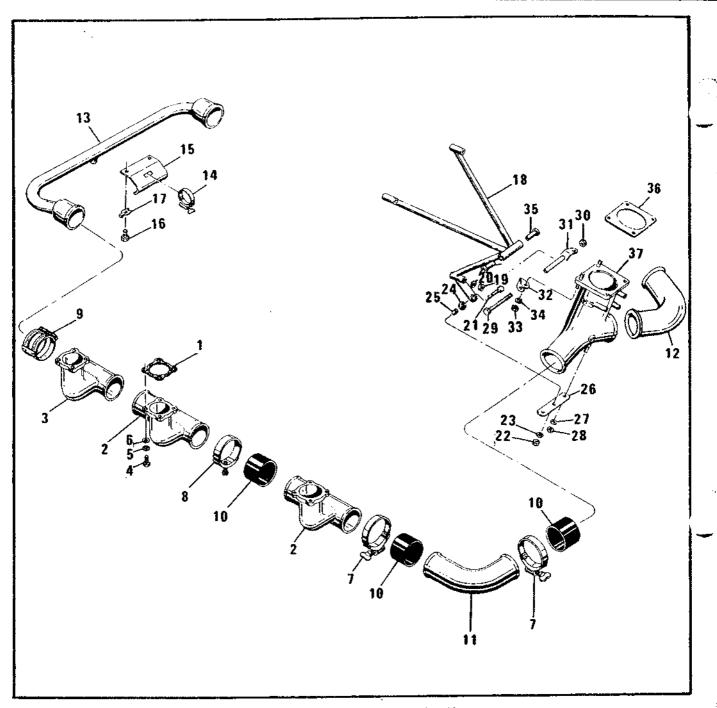


FIGURE 57 - INDUCTION SYSTEM MODEL 10-470-M

ł	ELC	DADT	T			111/	. NI	TITY	, DE	R A		E 64	101.		٦-
	FIG.	PART NUMBER	12345 DESCRIPTION	_											
		<u> </u>	12343 DESUMETION	<del>- c</del>	ᄞ	ᄩ	<u> </u>	to H	12 H	L M	i i	屵쒸	RIS	40	ᄣ
	57-1	536413	& Gasket, Intake Manifold							6					
-	- 2	629138	Tube Assy, Intake Manifold, No. 1, 2, 3, 4, 5							5	ļ		Í		
	.3	629325	Tube Assembly, Intake Manifold, No. 6	$\cdot$						1	} !			ļ	
			ATTACHING PARTS	j								}		-	
	-4	24835	Bolt, 1/4 - 20 x 7/8 Inch Long							24				ĺ	
	-5	MS35338-44	Washer, Lock							24		}			
	-6	20522	Washer, Plain	-	ĺ					24	<u> </u>				
	49	004070	* * * *		}	ļ									
	.7	631972	Clamp Hose		-				}	8					
	-8 -9	36151L 539487	Clamp, Hose		İ				}	2					
	-10	639660-13	Clamp Assembly, Hose							10				ĺ	
	-11	628705	Elbow, Intake Manifold, Left Side		İ					1 11	1 1			-	
	-12	628703	Elbow, Intake Manifold, Right Side			]				1					1
	-13	628766	Tube Assembly, Balance							1			ļ		11
	-14	AN737TW46	Clamp, Balance Tube							1				}	}
	-15	633435	Bracket, Balance Tube		ĺ					1				}	
			ATTACHING PARTS	ŀ	}		i						Į		
	-16	537961	Bolt, 5/16 - 18 x 1 Inch Long	.	Ì					2	H				
	-17	501868	Washer, Tab							2	П				
			* * * *								Ιİ				11
	-18	628822	Bracket Assembly, Air Throttle							1					
	.19	2437	Nut, Hex			ll				1		-	ĺ	1	
	-20	MS35338-44	Washer, Lock		l							Ì		Ì	
	-21	AN4-7A	Bolt						.				-		
_	-22 23	22661 538100	Nut, Self-locking, 1/4							'			İ		
	- ·23 -24	M330S208	Washer, Grommet-to-Bracket			<b>i</b>					} }		ĺ		
	-25	628833	Sleeve, Air Throttle Bracket				ı				}			1	
	-26	628816	Bracket, Air Throttle, Lower				i	'   [		1 1	ÌΙ		Ì	1	
			ATTACHING PARTS					.	-						
	·27	2437	Nut, Hex			{				1 2	ļ				
	-28	MS35338-44	Washer, Lock	.		{	l	.		2	H				
			* * * *												
	-29	AN4-26A	Bolt	.						1 1					
	-30	22661	Nut, Self-locking			il				1	ł				
	-31	538470	Bracket, Air Valve Support, Left Side				1		ļ	1	11	ļ	-	-	
	-32	539113	Bracket, Air Valve Support, Right Side	•				} }		1					
1	-33	23890	Nut, Hex				-	l l	İ	2				1	
	-34	MS35338-44	Washer, Lock							2					
	-35 -36	538468 627368	Bushing, Air Valve Support		١.		ļ			2				1	
	-37	***	& Gasket, Air Throttle				-		ļ	l rf				1	
	0,		throttle Assembly, All (See Figure 64)												
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×															
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	_						ļ	} }							1
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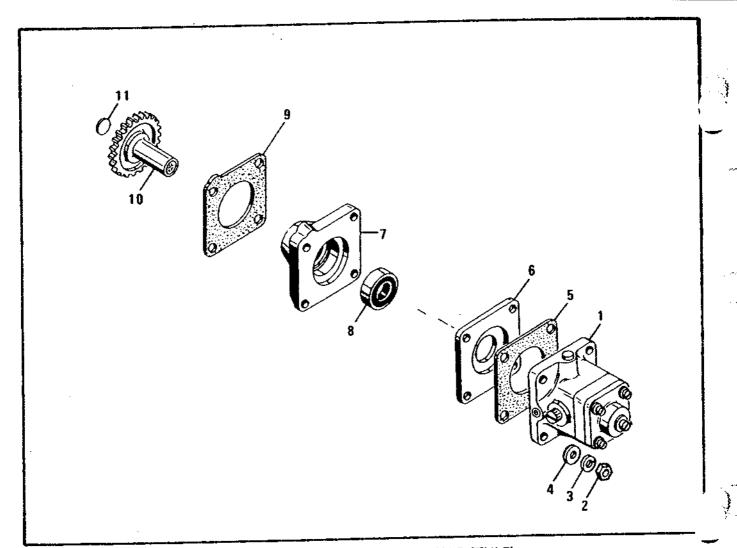


FIGURE 58 - FUEL PUMP ASSEMBLY (OLD STYLE) MODELS 0-470-B,E,G,M,P

FIG.	PART												l	Q	U	٩N	T	T	/ 1	PE	R	A	SS	EM	BL	Y	
INDEX	NUMBER	1	12345		DE	SCR	IPTI	ON					A	В	E	G	J	K	L	M	P	R				4	4
<del></del> 58-1	626845	① F	Pump Assem	ibly	y, Fu	el (Ro	omec	No. I	RG1!	5980	)			1	1	3				1	1		-			Í	
	्राचार्यक्षात्रः । -	•	•	·			TAC							1				Ì	ļ						-	ļ	
2	2439		Nut, Plain He	ex										4	4	4		1	ı	4	4	1				-	1
-2		,	Nasher, Loci	b	• • •		• • •							4	4	4			1	4	4	ļ					ĺ
-3	MS35338-45	,	Nasher, Loci Nasher, Plair	n .	• • •		•••							4	4	4			}	4	4	ĺ			Ì	- }	
-4	2473	'n	Mastiel, Flair		• • •			* *			• •		1	}			1	1		1		1	1			Ì	ł
_	**********		Gasket, Fuel	ı b									1	2	2	2				2	2	1		1 1			Ì
.5	MS9137-01		Gasket, Puer	) FU	diiib					• • •	• •			1	1	1	l		Į.	1	1					ļ	
-6	537682	1	Insulator, Fu	neı	Pum	р					• •		1	1	1	i		1		ĺ	11	1	1		1	ĺ	-
-7	627518		Adapter Ass	em	bly, I	Fuel I	rump	٠		• • •	• •			Ι'	١.	Ι'	ļ٠		l	1	1		ŀ			1	1
-7	534987		Adapter Ass											١.	;	١,		ļ	1	1	1	Į	ł			-1	Ì
-8	534956	& .	, Oil Seal .									• • •		!!	:	'	ļ	1	1	1:	;	1		) [		- }	
-9	534941	8. (	Gasket, Fuel	l Pi	ម៣៦ /	Adapi	ter .						ı	11	!!	11		1	Ĺ	1:	1:	1				Ì	ĺ
-10	534995	1	Gear Assemb	bly,	, Fue	l Pun	ap Dr	ive					ļ	1	]]	11				1:	1.	-	ļ.			İ	}
-11	539634		. Plug											1	1	1		1		ļ	<b> </b> '					}	
• •			. •										1				1									}	

① This pump no longer available. For replacement order 640643-5 and EQ6537. See Figure 59.

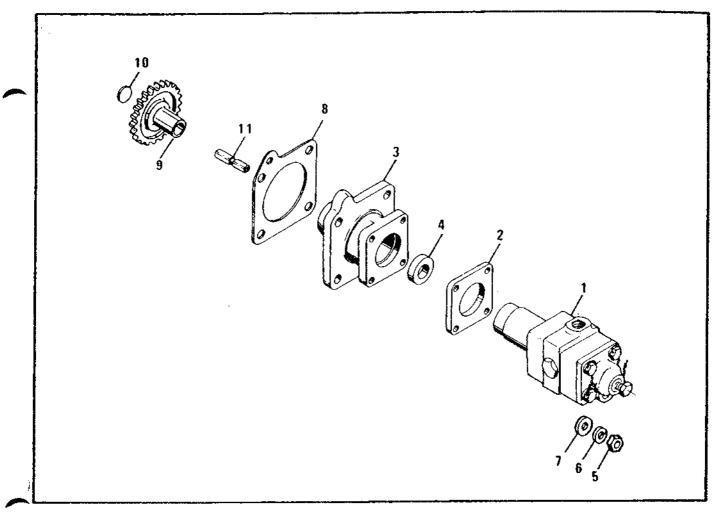


FIGURE 59 - FUEL PUMP ASSEMBLY (NEW STYLE)
MODELS 0-470-B, E, G, M, P

	PART		l	Q	U	٩N	TI	TΥ	F	E	<b>R</b>	Α	SS	ΕN	1BI	_Y	
NDEX	NUMBER	12345 DESCRIPTION	A	В	E	G	I	K	L	М	Ρ	R	S	Ü			
59 <sub>:</sub> 1	640643-5	Pump Assembly, Fuel		1	1	1	}			1	1						
-2	632816	. Insulator, Fuel Pump		1	1	1	1			1	1	]	ŀ	·		- }	
-3	642515	. Adapter Assembly, Fuel Pump		1	1	1				1	1					1	
-4	628178	Seal, Oil		1	1	1		Ì		1	1					ı	
		ATTACHING PARTS	Į													Ì	
.5	2439	Nut		4	4	4	]	l		4	4	Ì					
-6	MS35338-45	Washer, Lock		4	4	4				4	4			. 1		-	
-7	2473	Washer, Plain		4	4	4				4	4	Ì					
,		* * *			١.	1										-	
	EQ6537	Kit, Fuel Pump Assembly		1	1	1		ļļ		1	ı				. ]	į	
-8	534941	. Gasket, Fuel Pump Adapter		1	1	1	ļ			1	1		1		- <b>i</b>	ŀ	
.9	631684	. Gear Assembly, Fuel Pump	İ	1	1	1				1	1					1	
-10	539634	Plug		1	1	1	l			1	1					į	
-11	631683	. Coupling		1	1	1	}			1	1						
								}					} }			-	
								{									
-			l													İ	

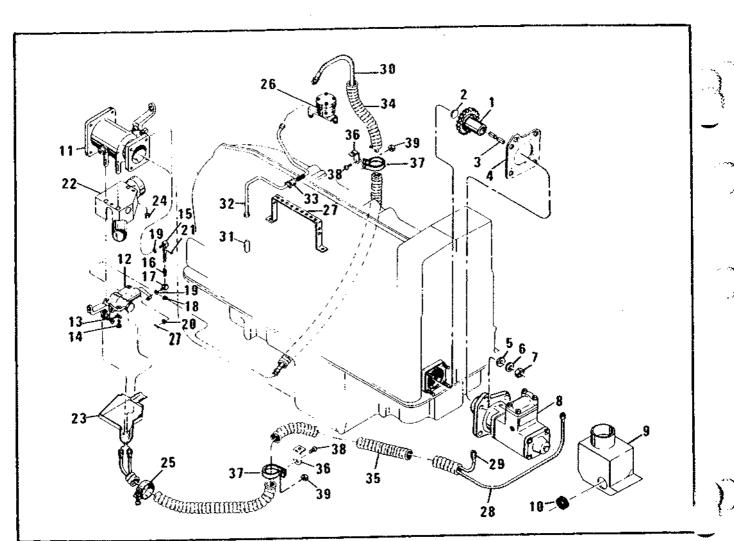


FIGURE 60 - FUEL INJECTION SYSTEM MODELS 10-470-C,H,J

F16.	PART		Τ		IU/	AΝ	TI	ΤY	′ [	<u>۱</u>	3	A	SSI	ΕN	!B1	LY			
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	Н	1	Κ	ī,	M	N	Ρ	R	S	V	٧	
60-1	631684	Gear Assembly, Fuel Pump Drive	1				Ì	1	1	1									
-2	539634	① . Plug, Fuel Pump Gear	[]					!	!!										İ
-3	631683	Coupling, Drive	1!			İ		!!	!	Ì	ļ	1							
-4	534941	Gasket, Fuel Pump-to-Crankcase	Ľ	1			Ì	!!	!		ĺ					ĺ			
-5	2473	Washer, Plain	14		į		1	4	4	1						•			الموارد وا
-6	MS35338-45	Washer, Lock	14		ĺ			4	4	[			1						
-7	2439	Nut, Plain	14	l	j	1		14	4	ļ	Ì					Ì			
	639246A3	Fuel Injection Assembly, Complete	П	1		1		ľ	١.	Ì			]						
	639248A3	Fuel Injection Assembly, Complete	١.	ŀ		ţ		١.	ľ		ĺ		i		1			ļ	1
-8	638154-9A1	① Fuel Pump and Vapor Separator Assembly	ין			1	1	'	'				i						1
		* * * *	1.	1	1	1		١.	١.		ļ				•		ĺ		
-9	631764	Shroud Assembly, Fuel Pump		l			ļ	!!	Ľ	1					İ		}	ĺ	سا
-10	626879-1	Grommet, Fuel Pump Shroud	4				1	14	4	}	İ		Ì	l					
	626836A1	. Throttle and Control Assembly			1	İ	ļ	ļ'	١.		}	1		1		1			
	625487A1	. Throttle and Control Assembly		į.		1	ĺ	1.	'	ĺ	1				ĺ	1			1
-11	626791A1	Throttle and Lever Assembly	11		ł					}				ĺ	ļ	}	}	I .	Ĺ
-11	625259A1	Throttle and Lever Assembly		}		Ì	}		١.				l		1			,	•
		(for detail parts see Figure 68)						١.	1			-			-		ļ		f <sub>r-</sub> .
-12	625219-2A1	Control Assembly, Complete	H	-		)	}	1	Ì		1	Ì	1	ĺ	I	l	١,		•

FIG.	PART	· .	T	Ql	JΑ	N.	TIT	ΓY	-	PE	R	A	SSI	EM	BL	Υ	
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	H	J	K	I.	M	N	Р	R S	S L	V
60-12	625219-1A1	Control Assembly, Complete				İ	ļ		1								1
		ATTACHING PARTS		ļ											1		
-13	501867	Washer, Tab	3				ĺ	3						- 1			
-14	537629	Screw	3					3	3								
		* * * *	Į				ĺ	ļ	ļ		}			ĺ			
	632558A1	Link Rod Assembly	1	1	Ì	١	}	1	1	í	ł			ļ		}	
	625539A1	② Link Rod Assembly	1		}	İ	ł	!	1			İ		1		}	
-15	632558	Rod and Link Assembly			ĺ		}	1	1	!		İ	}		- 1		
-15	625539	① Rod and Link Assembly		•				1	1	i	1		lÌ	ŀ	- }	ļ	
-16	626634	Spring, Compression		ļ			•	1	1							1	1
-17	632557	Rod End, Special							1			}		Ì	- }	j	
-17	625542	② Rod End, Special							1			ļ		}		1	
-18	MS21044N3	Nut, Elastic Stop	11					1	1		İ			}	- [		}
-19	625327-2	Washer, Wave	12	ļ			Į	2	2					1			
-20	537690	Washer, Plain	2					2								ł	
·21	2500	Pin, Cotter	14			}		2	2	}				-		Ì	
-22	627076	Shroud Assembly, Bottom	1.	ļ	İ	-		I i	ľ	}				į			
-23	627094	. Shroud Assembly, Cover	',		ļ			1		•				1			
-24	626891	. Grømmet, Rubber	2					2	2	1						Ī	
-25	24609	. Clamp, Metering Unit Shroud	1			l		ľ	ľ					1			} }
-26	631427A15	. Valve Assembly, Fuel Manifold	ľ					'	'						-		
		(for detail parts see Figure 72)	2			}		١,	2	}				ļ		-	} ;
-27	626486	. Bracket, Fuel Discharge Tubes	14					2	1	}							
-28	MS28741-4-03	40 Hose Assembly, Flexible	1			}		i	ľ	}	1			į	Ì		}
-29		66 . Hose Assembly, Fleixible	ľ	ĺ		}		i	ľ		Ì			Į		ŀ	
-30	MS28/41-4-03	00 . Hose Assembly, Flexible	6			1		6	6					Ì	1	ı	
-31		① . Nozzle Assembly, Fuel Injection	2	İ				2	ľ	-	}		Ì	ł			
-32	628154	. Tube Assembly, Fuel Discharge No. 1 & 6	1	ļ		ļ		-	2		l		li	į	1		
-32	638440	. Tube Assembly, Fuel Discharge, No. 2 & 5	2	•				2	-	l	İ			Į	- {		
·32	628153	Tube Assembly, Fuel Discharge, No. 3 & 4						١	2	}	ļ			1	-		ļ
-32 -32	628439 628152	. Tube Assembly, Fuel Discharge, No. 3 & 4	2					2	-		1	1		1	- 1	- }	
·32	628441	. Tube Assembly, Fuel Discharge, No. 3 & 4	-					~	2					l			}
	626577-2	. Clamp, Fuel Discharge Tubes	6					6	6		}		1			-	
-34	539819-24.00	. Duct, Flexible, 1 Inch ID x 24 Inch Long	li		}		ļ	1	1	Ì	Ì						} !
-35	532313-27.00	. Duct, Flexible, 1-1/2 Inch ID x 27 Inch Long .	1			Ì	Ì	1	1		ĺ						
-36	626524	. Bracket, Tube	2					2	2	ĺ	ĺ			į	-	ĺ	
-37	MS21333-81	. Clamp	2					2			1		ĺĺ	Ì	İ		-
-37	111021333-01	ATTACHING PARTS								į							
20	AN3-4A	Bolt	2					2	2					1			}
.38 .39	MS20365-1032		12					2	2		}	١.		ļ			
-33	M956969-1695	o . Hut, Self Eucknig						_	[~								
								-									
							-									ŀ	
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			ı	}	ŧ	I	\$	ı	ŧ	I	ł	I		{	ı	ı	

- ① See Figure 71 for old style fuel pump and associated parts.
- ② This link rod assembly is to be used, only with levers with no bushings. See Figures 69 and 75.
- 3 Check oldnozzle on engine for nozzle size, stamped on hex, and order the complete nozzle part number (ie 627335D12C).

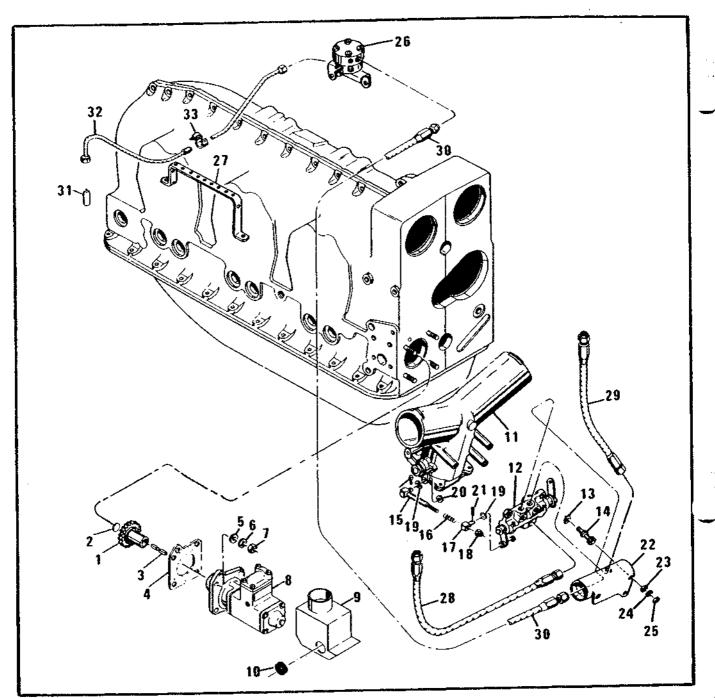


FIGURE 61 - FUEL INJECTION SYSTEM MODEL 10-470-F

FIG.	PART		-	Q	U/	١N	TI	T١	/	PE	R	Α	SS	E١	ΛB	LY		
INDEX	NUMBER	12345 DESCRIPTION	C	0	E	E	G	H	J	K	Į,	M	N	P	R	S	Ш	Ц
61-1	631684	Gear Assembly, Fuel Pump				1									İ			
-2	539634	O . Plug, Fuel Pump Gear	ļ		1	1						1		Į	}	ŀ		
.3	631683	Coupling, Drive		1		Ľ		l		1		1	1					
-4	534941	Gasket, Fuel Pump-to-Crankcase				[]	1				1							
-5	2473	Washer, Plain			-	4	1	ł	1			1		1	1		1	
-6	MS35338-45	Washer, Lock		ļ	[	4			•	1	1		1	l			Ì	•
-7	2439	Nut, Plain				14			ł			1		1			ĺ	
-8	640107A3 638154-9A8	Fuel Injection Assembly, Complete				1												<u> </u>

FIG.	PART	-																				TI									Вι	_	
VDEX	NUMBER		1 2	345	5		DE	ESC	CRI	IP1	10	N						C	D	E	ĮĒ	ļc	ĮΪ	ŧIJ	Ш	Ф	Щ	МŢ	N.	P	R	s	U
								,	_		* *									Ì	{ ,	}			}			}					
61.9	631764			Shrou																ł	1					}		1		}	-	1	
-10	626879-1			Grom															l	Ì	3					ł	-	1	ı	İ		- {	
	640120A1			hrottle														3 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		ĺ		-	1	Ì			-		- 1				
-11	639766A1	②		Thrott							rbly		٠.				٠.	1 1 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1	1		ĺ	-			-			
				for det														ŀ	İ	l	١.				1		İ		İ	١	- 1	1	
-12	625219A7			Contro	ol A	226	mb	oly,	Coa	mp	lete	• •						ı		ĺ	1				-					1	ı		
								A	<b>ΥΤ</b> Τ	ΓAθ	CHI	VG.	PA	RT	S														Ì			1	
-13	501867			Washe																								-		1			
-14	630387			Bolt, S	Spec	ial	, <b>1</b> -	-7/8	l Inc	ch	Lon	g.									3				}	-		-			}	- {	
										*	* *	* 4	*					1	1			}			1	ĺ		-	ļ		- 1	1	
	632558A1			Link F	Rod	As	sen	nbly	у.																-	Į		-	-	ļ		j	
	625539A1	3		Link F	Rod	As	sen	nbly	у.												1	}		İ		ļ	İ		-	١	- }	ĺ	
-15	632558			. Rod	and	l Li	ink	As	sem	nbly	y							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1		Į	-		ļ	Į	Ì			
-15	625539	3	١	. Rod	and	L	ink	As	sem	nbly	٧							1	1 1 1 1 1 2 2 2 2 1 1 1						1	ĺ	-		ı	-	- 1		
-16	626634			. Spri	ng, (	Cor	mpi	ress	sion	١.								3 3 3 1 1 1 1 1 2 2 2 1 1 1 3 3 3 3 3 1 1 1 1			1	1		1	1	ı	-	-	}	ł	١		
-17	632557			. Rod														3 3 3 3 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1			1					ĺ			İ	İ	-	Ì	
-17	625542	<b>③</b>		. Rod			•											33 33 31 11 11 12 22 11 11 11		1	-			1			1	İ	1	ŀ	1		
-18	MS21044N3	_		. Nut,																1	İ			1					ļ	-			
-19	625327-2			Washe														33 33 33 31 11 11 12 22 22 11 13 33 33 33 33 33 31 11									-	-	Ī	ł			
-20	537690			Washe														3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1			-	Ì	İ	Ì	ļ			
-21	2500			Pin, Co														1 3 3 3 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1		İ			l			ĺ			ĺ	Ì			
_,	632859A1			hroud ,														3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1			ĺ					-				
-22	632859			Shrou						-				-				3 1 1 1 1 1 1 1 2 2 2 2 1 1 1 1 1 1 1 1		1				1			-	İ	-	Ì	Ì		
	002000		• •	011100	٠, ,			-			HIN:																		Ì	ļ	- {		
-23	20522			Washe	r Pi:	ain	1														3								1	]	ı	ì	
-24	MS35338-44			Washe														1		ĺ	3	1					ĺ		- [	1	ĺ		
-25	2437			Nut .														1			3			Į	-			-			- }		
25	2401		• •		· · ·	٠.	• •	٠.	• • •		*			• • •	•	• •	• •		ļ	l	ſ						İ	İ		ļ		ì	
-26	631427A17		V	alve As	mass	shlv	, F	امررع	ı Ma												1				İ	İ		İ		j	-	ļ	
20	001727717			for det								•	• •	• • •		• •	• •		l		ľ								-		ı	١	
-27	626486			racket,	•				•										i		2	İ			-	ĺ		ĺ	1		}	j	
-28	635158-16.00			ose Ass															i	}	ĩ			-		ĺ		1	١		1	1	
-29	635158-8.50			ose Ass			-			-								1		}	li			}		1		1	-		j	١	
-30	635158-44.00			ose Ass														1		1	i							-	ı		Ì	ı	
-31	627335D12	_		ozzle A														•		}	,			ł				1	-		ŀ	- 1	
-32	638154	$\sim$		ube As														1			5						ļ	-	- [		Į	1	
-32	638153			ube As														ı			2	1		İ				-	-		-	ı	
-32	638152			ube As														İ		1	5						-	1			ŀ	ļ	
·33	626557-2			lamp, f							_							1			6				1					-	- }		
~~	020 <b>0</b> 07-2		. 01	օութ, ւ	961	51	JU11	y	~ '	uut			•			•				-												-	
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																		1	ł	1	1		1	1	i	I	-	-		- 1		- 1	

- ① See Figure 71 for old style fuel pump and associated parts.
- ① If replacing old style throttle body which has cast mount legs, it will be necessary to order, in addition to new throttle assembly, a 639410 bracket, a 639411 bracket and 4 each 530346 bolts.
- This link rod assembly is to be used only with levers with no bushings. See Figures 69 and 75.
- 3 Check old nozzle on engine for nozzle size, stamped on hex, and order the complete nozzle part number (ie 627335012C).

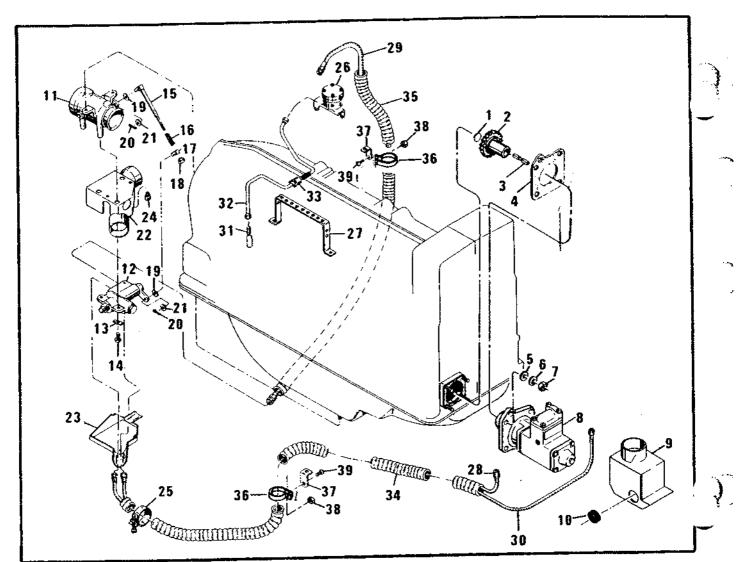


FIGURE 62 - FUEL INJECTION SYSTEM MODELS 10-470-K,N

CIC	PART			Γ	0	U/	١N	TI	TY	· F	PE	R	A	SS	EN	1B	LY			
FIG. INDEX	NUMBER	12345 DESCRIPTION	_	C									M	N	Р	R	S	V	V	
62-1	631684	① Gear Assembly, Fuel Pump									1			1						
-2	539634	① . Plug, Fuel Pump Gear			l				1	Ì	!	ĺ		!						
-3	631683	Coupling, Drive Gear			ļ		1	ı	ĺ	1	!!			¦	ļ					
-4	534941	Gasket, Fuel Pump	•	1				1	ŀ		1!		1	!!	!					
-5	2473	Washer, Plain	•	1							4			4		}				r
-6	MS35338-45	Washer, Lock	•		Ĺ	١.	ĺ		Ì	ĺ	4	1		4						l
-7	2439	Nut, Plain	•		1	ŀ	1	l	1		4		ĺ	4			1			
	639234A3	Fuel Injection Assembly, Complete	•	1				1		ļ	ļ'		1	١.	1					ŀ
	639247A3	Fuel Injection Assembly, Complete	•		1	1		1			١.		]	'		ŀ				,
-8	638154-12A1	1 . Fuel Pump & Vapor Separator Assembly	•		l	1				ĺ	P	1		ı.						
-8	638154-9A1	① . Fuel Pump & Vapor Separator Assembly	٠				1		1								'		1	<b></b> .
		* * *		l				1			١.		1	١.						١
-9	631764	Shroud Assembly, Fuel Pump	•	Į	1	1	l		•	ı	Ľ	1	ļ	1.	1					
-10	626879-1	Grommet, Fuel Pump Shroud	٠	j	ı	l	1	1	1		3			13			ĺ	ı		
	628428A1	. Throttle and Control Assembly		l				1			1"		1	١.	Ì	]			l,	
	628776A1	. Throttle and Control Assembly				1		-		1				Ľ	1		١			1
-11	628429A1	Throttle and Lever Assembly				1		-		1	11			١.		Ĺ	-	ţ.	ì	9
-11	628775A1	Throttle and Lever Assembly										ĺ		1				۱		ľ
		(for detail parts see Figure 68)		1		ļ	-	l	ł		1	1	ŀ	1	1	ł	1	ł "	Į	i

FIG.	PART											Α						٦
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	6	H	J	K	L	М	N	Р	R	s	U	٧
62-12	625219-1A2	Control Assembly, Complete				}				3								٦
- 12	625219-2A1	Control Assembly, Complete			Ì	l							1		1			
		ATTACHING PARTS									•				Ì			
-13	501867	Washer, Tab								3			3		Ì			
-14	537629	Screw, 1/4 - 20 x 21/32 Inch Long					ļ			3	İ		3				į	
		* * * *					[ ;									- {	- 1	
	632558A1	Link Rod Assembly								1		]	1				- [	
	625539A1 (	D. Link Rod Assembly		ļ						1			1				- }	
-15	632558	Rod and Link Assembly	ļ	}						1		1	1			-		
-15	625539	D Rod and Link Assembly								1		}	1		į	Ì		ļ
-16	626634	Spring, Compression								1		}	1	.				
-17	632557	Rod End, Special								1			1		Ì			
-17		Rod End, Special					]			1	1	ĺ	1		Ì		-	
-18	MS21044N3	Nut, Elastic Stop	1							1	}	1	1				-	
-19	625327-2	Washer, Wave								2			2	j	}			ļ
-20	537690	Washer, Plain					[ }			2	l		2	j	ļ		}	
-21	2500	Pin, Cotter								2			2			Í		J
-22	627076	Shroud Assembly, Bottom			ĺ					1			1	ļ		-	Į	į
.23	627094	Shroud Assembly, Cover		}						1		{	î				ļ	1
-24	626891	Grommet, Rubber								2			2	۱			- }	ł
-25	24609	Clamp, Metering Unit Shroud								1		1	1					1
-26	631427A19	. Valve Assembly, Fuel Manifold							ļ	1					ĺ		-	ı
-26	631427A15	. Valve Assembly, Fuel Manifold							1				1	-	-	-		١
		(for detail parts see Figure 72)	l						Ì					Ì	Ì		-	ı
-27	626486	. Bracket, Fuel Discharge Tube								2			2		l	I	- [	ĺ
-28		. Hose Assembly, Flexible, 1/4 ID x 26-3/4 Inch Long								1			1		- {			1
29		. Hose Assembly, Flexible, 1/4 ID x 34 Inch Long .								1			1	- {	- 1			Į
-30		. Hose Assembly, Flexible, 1/4 ID x 30 Inch Long .						ı	]	1			1	Ì	-	- [		
-31		Nozzle Assembly, Fuel Injection							<b>}</b>	6			6	- 1		-		
-32	628440	. Tube Assembly, Fuel Discharge No. 1 & 6					} }	ĺ	  -	2			-	- {	ļ			ı
-32	628154	. Tube Assembly, Fuel Discharge No. 1 & 6	1						Ì			ll	2	1	i	- [		١
-32	628439	. Tube Assembly, Fuel Discharge No. 2 & 5		ļ	ļ		}	}	ľ	2				-		Ì		-
-32	628153	. Tube Assembly, Fuel Discharge No. 2 & 5		Ì	1			-				<b>!</b>	2			ļ	į	
-32	628441	Tube Assembly, Fuel Discharge No. 3 & 4		Ì					ŀ	2		<b>!</b>		-		Ì		1
-32	628152	. Tube Assembly, Fuel Discharge No. 3 & 4											2		-		-	[
	626577-2	. Clamp, Fuel Discharge Tubes	Ì					Ì		6			6		}			
-34	532313-27.00	Duct, Flexible, 1-1/2 ID x 27 Inch Long		ĺ	ļ					1			!		Ì			Ī
	539819-24.00	. Duct, Flexible, 1 Inch ID x 24 Inch Long		ĺ	Ì				-	I			1	-				ļ
	MS21333-81	Clamp			}	ı		ļ	ļ	2			2		-			
-37	626524	. Bracket, Tube		ļ		ļ		Į		2		{	2			ļ	ļ	
		ATTACHING PARTS	l	ļ		į		Ì	Í				ļ		}	Į	}	ĺ
	MS20365-1032C	. Nut				l	1	1		2			2				ĺ	ļ
-39	AN3-4A	. Screw	1			į		į	ĺ	2			2			l	-	ı
					ļ					ļ								
		<b>!</b>		ĺ					1	-			]	}	ł			
										-			ļ			ĺ		1
NOTE	^	•				,			*	•		•	•		•	•	•	•

- ① See Figure 71 for old style fuel pump and associated parts.
- ① This link rod assembly is to be used only with levers with no bushings. See Figures 69 and 75.
- 3 Check old nozzle on engine for nozzle size, stamped on hex, and order the complete nozzle part number (ie 627335012C).

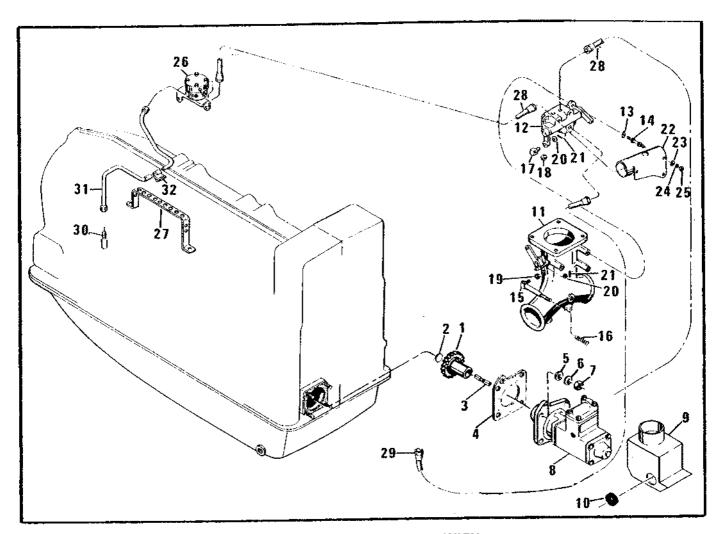


FIGURE 63 - FUEL INJECTION SYSTEM MODEL 10-470-L

FIG.	PART											A				-		_
INDEX	NUMBER	12345 DESCRIPTION		Цņ	LE	ĮE	G	H	L	ļκ	1	M	ļN.	P.	R	S	Ш	$\overline{\mathbf{y}}$
63-1	631684 (	Gear Assembly, Fuel Pump Drive									1						• ]	
-2 ·2		Osal Assembly, Control of the Pump Gear		-				1	İ		1	Ì						
-3	631683	Coupling, Drive					İ				1							
.4	534941	Gasket, Fuel Pump			i		ĺ				1	-	ĺ					
.5	2473	Washer, Plain					-				4							
-6	MS35338-45	Washer, Lock									4		1				. [	
.7	2439	Nut, Plain		-	-		-				4	İ	İ	l	ĺ			
•	639255A4	Fuel Injection Assembly, Complete		1				į			1		1				{	
-8		. Fuel Pump & Vapor Separator Assembly						1	l		1							
•		* * * *				1	1										ļ	
-9	631764	. Shroud Assembly	.				1	1			1	1					ļ	
-10	626879-1	. Grommet, Fuel Pump Shroud		-		ı	Ì		Ì	l	3	1						
· •	628744A1	. Throttle and Control Assembly							ĺ		1			1	1			
-11	627326A3	Throttle & Lever Assy, (for details see Fig. 68)					į	İ		1	1		ı		i -			
-12	625219-2A4	Control Assembly, Complete							ļ		1							
		ATTACHING PARTS					1		1									
-13	501867	Washer, Tab	.				1		}		3			}			1	
-14	630387	. Bolt, Special, 1-7/8 Inch Long			Ì		}		}		3					Ιi		
		* * * *							Ì					1				
	632558A1	Link Rod Assembly	.						1		1			ļ		1		
		. Link Rod Assembly				Ì	1		•		1				ł			
-15	632558	Rod & Link Assembly						1			1			ļ	ļ			
-15		) Rod & Link Assembly			-						1	ļ	}					
-16	626634	Spring, Compression						}		}	1		-		ļ			
-17	632557	Rod End, Special				İ	İ	}		ļ	1	}	}		ļ			
-17	625542	) Rod End, Special	.							}	1	1	}					
-18	MS21044N3	Nut, Elastic Stop	.	-							1	1	Ì	İ	ĺ	li		
-19	625327-2	Washer, Wave	.				ı			1	2				1			
-20	537690	Washer, Plain	-						Ì		2	1		l				
-21	2500	Pin, Cotter	.		i		ļ		}		2				l			
-22	632859	Shroud, Metering Unit	.		ļ						1	İ			ļ			
		ATTACHING PARTS			ļ		1						-	1	ļ			
-23	20522	Washer, Plain	.		Ì		į			ĺ	3				Ì	Ì		
-24	MS35338-44	Washer, Lock		ļ		-					3	1	-		1			
-25	2437	Nut, Plain	.		İ				1		3				ŀ			
		* * * *	-											1				ĺ
-26	631427-3A2	. Valve Assembly, Fuel Manifold	.		Ì		-		١		1	}	Ì	ł		İ		ĺ
		(for detail parts see Figure 72)		-	1		1	ļ	İ			ļ		İ	l			Ė
-27	626486	. Bracket, Fuel Discharge Tubes	٠	ļ			-	Ĺ			2		1	ļ	ŀ		}	ļ
-28	635158-17.00	. Hose Assembly, Flexible, 1/4 ID x 17 Inch Long	.				{	1			2							
-29	MS28741-4-0340		.			ļ	ļ		ļ	1	1						] '	ĺ
-30		Nozzle Assembly, Fuel Injection	.		-	ļ					6		}					İ
-31	628154	. Tube Assembly, Fuel Discharge No. 1 & 6		ĺ	}	1					2				1			
-31	628153	. Tube Assembly, Fuel Discharge No. 2 & 5			}	1		1			2							
-31	628152	. Tube Assembly, Fuel Discharge No. 3 & 4		Ì				1	1		2 2 6				ļ			,
-32	626577-2	. Clamp, Fuet Discharge Tubes	. [	Ì							Б							
					}				١	ļ		ļ	ļ			}		
				-				Ì		ĺ		ļ				ļ	}	ĺ
MOTEO			•	•		-												

- ① See Figure 71 for old style fuel pump and associated parts.
- 10 This link rod assembly is to be used only with levers with no bushings. See Figures 69 and 75.
- 3 Check old nozzle on engine for nozzle size, stamped on hex, and order the complete nozzle part number (ie 627335012C).

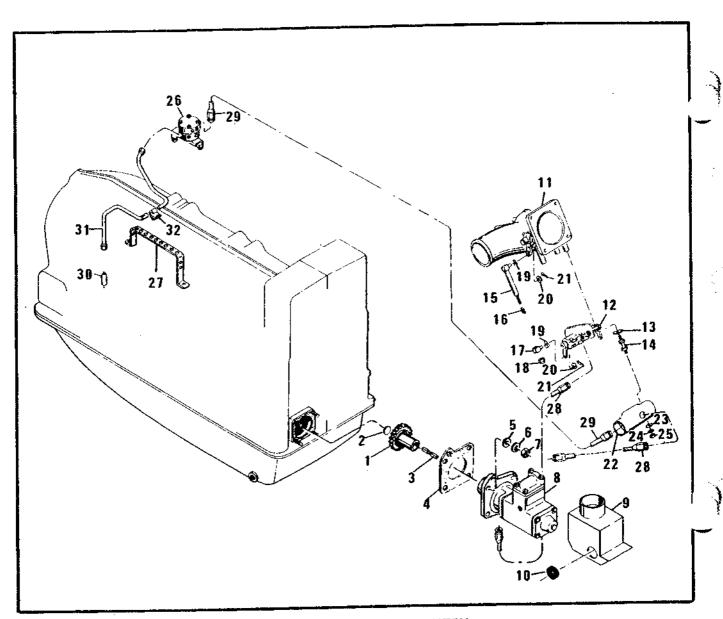


FIGURE 64 - FUEL INJECTION SYSTEM MODEL 10-470-M

FIG.	PART			Q	UA	N	[]]	ſΥ	P	EF	₹ /	488	EΛ	1BL	Υ.	
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	Н	J	ĸ	LN	A N	P	R	S	υlv
64-1	631684	D Gear Assembly, Fuel Pump				} }			1		1	ı				
2	539634	D . Plug, Fuel Pump Gear					}	1				1				
-3	631683	Coupling, Drive Gear			ļ		Ì		Į		- [	1				į
-3 -4	534941	Gasket, Fuel Pump-to-Crankcase				l l			}			١ļ			ļ	-
-5	2473	Washer, Plain							-		- 4	1		} {	}	İ
-6	MS35338-45	Washer, Lock			1			1	İ	ĺ	1	<b>3</b> {	1		1	
-5 -7	2439	Nut, Plain		Į			- }				- 14	1				İ
-,	639260A3	Fuel Injection Assembly, Complete	}	}	ļ	1	}				-   '	i		<b>!</b>		-
-8	638154-9A4	① . Fuel Pump & Vapor Separator Assembly		1		Ì				1	1	]	-			}
-0	000104°0/14	* * * *			1											
<b>-</b> 9	631764	. Shroud Assembly, Fuel Pump						ļ				1			[	Ì
-10	626879-1	Grommet, Fuel Pump-to-Shroud			İ					j	-   -	3		li		1
	628891A1	Throttie and Control Assembly			-	]						!	}		Ì	ĺ
-11	628861A1	Throttle and Lever Assembly		1	ļ	١				ļĺ		'	Ì	11	Ì	-
		(for detail parts see Figure 68)			1					, ,				]	]	-
-12	625219-2A9	Control Assembly, Complete								} }		1				ļ
		ATTACHING PARTS										İ			1	
-13	501867	Washer, Tab										3				į
-14	630387	Bolt, Special, 1-7/8 Inch Long										3				
		* * * *						[		{	}		İ			- {
	632558A1	Link Rod Assembly			-			}			-	1		1 1	}	
	625539A1	② Link Rod Assembly		-		]					-	1	1			
-15	632558	Rod & Link Assembly						}			Ì	1				
-15		② Rod & Link Assembly		į		ĺ		}		}		1	Ì			
-16	626634	Spring, Compression		1			} '					1	Ì		l	- }
-17	632557	Rod End, Special			İ							1	ĺ			}
-17	625542	② Rod End, Special		ı	1	l					}	1		1		
-18	MS21044N3	Nut, Elastic Stop			Į					-	1	1				-
-19	625327-2	Washer, Wave	}			1			ĺ	1		2	Ì		-	1
-20	537690	Washer, Plain		1								2				
-21	2500	. Pin, Cotter			1					}		2				ļ
	632859A1	. Shroud Assembly, Metering Unit		ļ		1			,	i i		1	-			
-22	632859	Shroud, Metering Unit		ļ		}						1		1		1
		ATTACHING PARTS					Ì	'								
-23	20522	Washer, Plain			1					1		3	Ì			
-24	MS35338-44	Washer, Lock						1	İ	ĺ		3				Ì
-25	2437	Nut, Hex			ļ							3		1		
		* * *	i	Į		1				ļ			-	1		
-26	631427A16	. Valve Assembly, Fuel Manifold				1	1	ļ	1	ļ	1	1	l	-		- 1
		(for detail parts see Figure 72)	1		Ì				ŀ			_	Į		Ιİ	
-27	626486	. Bracket, Fuel Discharge Tubes				-				1		2	1	1	} }	}
-28	635158-16.00	. Hose Assembly, Flexible, 1/4 ID x 16 Inch Long	1 .	1		ł						2			)	Ì
-29	MS28741-4-037	$oldsymbol{0}$ . Hose Assembly, Flexible, 1/4 ID x 37 Inch Long	, .			ĺ						1				
-30	62733D12	3 . Nozzle Assembly, Fuel Injector			ļ			-				6				
-31	628154	. Tube Assembly, Fuel Discharge, No. 1 & 6								-		2				
-31	628153	. Tube Assembly, Fuel Discharge, No. 2 & 5					[		ĺ			2		İ		- }
-31	628152	Tube Assembly, Fuel Discharge, No. 3 & 4					[					2	-	1	{	- }
-32	626577-2	. Clamp, Fuel Discharge Tubes	[			·	1			ļ		ρļ				-
			•	'	•	•	•	•	1	,	1 1	i	•	1	' 1	,

- ① See Figure 71 for old style fuel pump and associated parts.
- ② This link rod assembly is to be used only with levers with no bushings. See Figures 69 and 75.
- 3 Check old nozzle on engine for nozzle size, stamped on hex, and order the complete nozzle part number (ie 627335D12C).

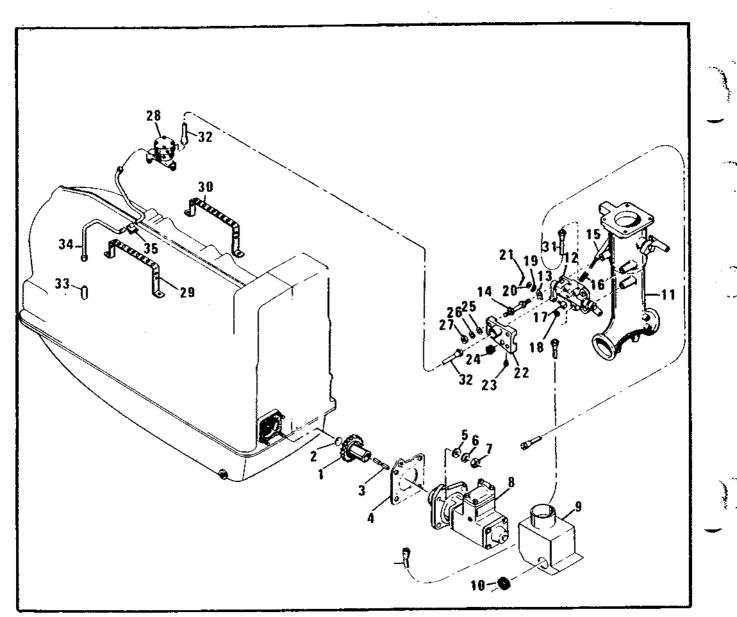


FIGURE 65 - FUEL INJECTION SYSTEM MODEL 10-470-S

FIG.	PART			a	U	ΑN	TI	T۱	7	PE	R	Α	SS	E١	ΛB	LY	•		
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	H	J	K	L	M	N	P	R	S	C	٧	
65-1	631684	① Gear Assembly, Fuel Pump Drive							Ì					1		1			
-2	539634	① . Plug, Fuel Pump Gear	1			1	1	ļ		1						1			
-3	631683	Coupling, Drive Gear		l	į .			ı		1	1		ĺ		l	11			
-4	534941	Gasket, Fuel Pump-to-Crankcase			l		ı				1		1	!	!	]			ı
-5	2473	Washer, Plain	ļ	ĺ		ı	i	Ì			Į	1	]	1	1	4			ii.
-6	MS35338-45	Washer, Lock				1	İ		1	İ	1		1			4			
-7	2439	Nut, Plain	ļ	1		1				1			}	1		4			ķ.
	639264A2	Fuel Injection Assembly Complete	ł	İ	1	ł	}		Į	1	1		Ì	İ	1	1	Ì		12.
-8	638154-9A6	① . Fuel Pump & Vapor Separator Assembly	]	}		-		1		1	ł	1		1	1	1	ŀ		ĺ
		* * * *	l	ŀ					ļ		-	1	1	1					ĺ
-9	631764	Shroud Assembly, Fuel Pump						1	١							1	ĺ		ĺ
-10	626879-1	Grommet, Fuel Pump Shroud				1	1	ŀ			1	1	Ì		ı	1	ŀ		i 🔪 .
	629399A9	. Throttle and Control Assembly	Ì	1	ĺ	1	1				1	1	Ì			1		٠.	ુ
-11	629397A1	. Throttle and Lever Assembly (for details see Figure 68)														1		ļ—	r

FIG.	PART	$\top$			·								$\top$									AS			_		
INDEX	NUMBER	-	12345		D	ESC	RIP	TIO	N				_[	II.	D L		I	Щ	Į.	K	L	M	N	P	В	sļī	Цν
65-12	629703-2A4	_ <del>1_</del> .	. Contro	I As	ssem	bly, (	Comp	plete			<i>.</i> .			1			}						-	}	}	<b>!</b>	
						A <sup>2</sup>	TTA	CHIP	NG P	ART	TS						}								Ì		
-13	501867		. Washer,	, Ta	ab.								-	-										-	ľ		
-14	630387		. Bolt, S	peci	ial, 1	-7/8	Inch	Lon	g					ĺ			1	İ					ļ		;	<sup>3</sup> ]	İ
					_				* *									}					-		- {	,	}
	642283A1	<u> </u>	. Link Re	od 1	Asse	mbiy	' <b>-</b>	• •		•••				١			}	Ì	ĺ				ĺ		1	;	
15		<b>②</b> .	Link Ro Rod a	00 /	Asse	MD:Y L Acr	om bl	 Ive					•	-	1		-								-  -	1	
-15 -15	642283 629364		Roda											Ì					1				Ì	Į	- }	1	1
-16	626634	φ.	Sprin	n C	Comi	oressi	on .						.		ļ	ļ				Ì			1		1	i	
-17	632557-1		Rod l	End	i. Sp	ecial									-		1							Ì	ď	1	
-17		_	Rod I											-		-		}					١	-	ŀ	1	
-18	MS21044N3		Nut,	Ela	stic S	Shop			•				.			-			ļ		ļ					ļ	Ì
-19	625327-2		. Washer	. W	ave											١	-								ľ		١.
-20	537690		. Washer	, Pia	ain								- 1	١	-	ĺ							İ		ļ		
-21	2500		. Pin, Co	tter	Γ.,								•	-	-	İ	ļ	1				}	Ì		Ì		
	629338A1		Shroud A											ł			١				Ì		ļ			<b>;</b> }	
-22	629338	•	Shroud Gromm	i, Mi	ieteri Jud	ing U	nit .		• • • •	• • •				Ì			ĺ				Ì		ĺ		ļ	2	
-23 -24	626891 626879-1		Gromm Gromm												}	i	-	}		l			Ì			ı	ĺ
-24	020073-1	•	. Oronsis	ici,	11110		 ΑΤΤΑ						- {	١	- [	1		Ì								- 1	Ì
-25	20522		, . Washer	r Di	lain									ł		١										3	
-26	MS35338-44		Washer	', ' r 1	nck									Ì	- [	ļ		ļ								3	
-27	2437		Nut, P	lain	)										. }	-	-						Ì		Ī	3	-
	<b>4.0</b> 7							* *	* *	*			ļ	1		İ	İ									.	
-28	631427A17		. Valve As										٠.			-						1	ļ	▎▕		'	İ
			(for det	ail p	parts	see l	Figur	e 72	)				.		1			-	ļ		ļ			ĺĺ		1	
-29	641701		. Bracket,	. Fu	el D	ischai	rge /	ubes	. (1·3	5-5 SI	(4e)		• •	ļ		1		Ì						}		i İ	- }
·30	628295		. Bracket, . Hose Ass	. FU	'P'' 161 N.	ISCN8I Clay	rge i isto	1//	18. v	とりい 1分1	nch	 ไ กกอ					-	}						۱ ۱		2	
-31 -32	635158-18.00 635158-32.00		. Hose Ass	sem	iuiy, iblv	Flex	ible,	1/4	ID x	32 1	nch	Long														1	İ
-33	627335D12	<b></b>	. Nozzle A	Asse	embl	v. Fu	el In	iecto	or			 				-								1		6	ļ
-34	628154	~	. Tube As	serr	nbly,	Fuel	Disc	, :harg	e No	. 18	& 6					į		-	1					1		2	ŀ
-34	628153		. Tube As	sem	nblγ,	Fuel	i Disc	charg	je No	). 28	& <b>5</b>					Ĭ	1	1		Ì	İ	ŀ				2	1
-34	628152		. Tube As	sem	nbly,	Fuel	l Disc	harg	is No	3 8	<b>§</b> 4	• • • •				ļ		-	1			-				2	-
-35	626577-2		. Clamp, F	Fue	l Dis	charç	je Tu	bes	• • • •			• • • •						1				1				ľ	-
															]					-		1		1			į
																		!			}					}	
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- ① See Figure 71 for old style fuel pump and associated parts.
- This link rod assembly is to be used only with levers with no bushings. See Figures 69 and 75.
- 3 Check old nozzle on engine for nozzle size, stamped on hex, and order the complete nozzle part number (ie 627335D12C).

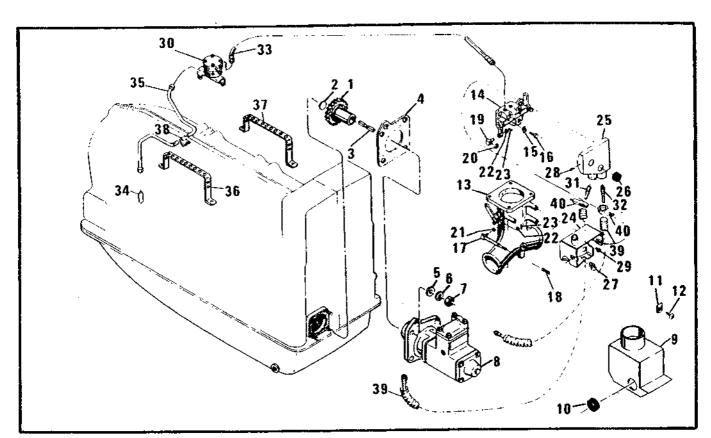


FIGURE 66 - FUEL INJECTION SYSTEM MODELS 10-470-U,V

FIG.	PART	$\top$		-										(	2U	Α	Nī	IT	Υ	F	E	R	Α	SS	EN	ΛB	LY	•		1
INDEX	NUMBER		123	45		DES	CR	IPT	ION	<u> </u>			 1	Ţ	) [[	T	F	6	H	J	K	L	М	N	P	R	S	υ	<u>\</u> .	``
66-1	631684	0	Gear /	Assemb	y, I	Fuel	Pum	ıp Dr	rive .							١								ŀ				1	1	_
-2	539634			, Fuel f												1	١	ĺ			ļ				ĺ	1		1	1	
-3	631683			ing, Fu											1	l	ļ							,			ļ	1	1	
-4	534941		Gaske	t, Adap	ter-	-to-Çı	rank	case					 .				١		1									1		
-4	631685			t, Adap											-	١	-	-					1	İ			[		11	
-5	2473		Washe	r, Plain												١		-			İ				1		ļ	4		
-5	530181		Washe	r, Plain														}				ļ		İ	ŀ				2	
-6	MS35338-45		Washe	r, Lock		. <b></b>							 .	1		Ì		Ì				İ	ŀ		)		1	4	2	
-7	2439			Plain										1		1	-1	- }					ŀ	1	i	ļ		4	2	
	639261A3		Fuel (	njectio	ı As	ssemi	bly,	Com	plete	е				ı	1	1	-	Ì							1	l		1		
	639185A2		Fuel I	njectio	ı As	sseml	bly,	Com	plete	е			 .	1	}		- 1	- {	ł						ļ				1	:
-8	638154-9A20	(1)	. Fuel	Pump	& V	Vapor	r Set	parat	tor A	sserr	ably		 .	İ			1	ŀ							Ì	1		1		
-8	638154-3A2	0	. Fue	Pump	& V	Vapoi	r Sep	parat	tor A	ssem	ıbly		 . [	ļ				Ì			ļ								1	
								*	* *	* *			-			-	ļ	Ì			ļ	}	ĺ		١					
-9	631764		Sh	roud A	sser	mbly,	, Fu	el Pu	ımp				 .	-			Ì						ļ	•	Į.	ŀ	İ	1		
.9	640027		Sh	roud A	sser	mbly,	, Fu	el Pu	Jmp				 .		Í		1					Ì	ļ	}	l		ŀ		1	ı
-10	626879-1		Gi	ommet	, Ft	uel Pi	ump	Shr	oud							١					}			}	1	ŀ	į	3	4	
-11	537911			st, Tinn										1	1	ļ		Ì					ļ	Ì		l		4		
-11	534337			at, Tinn											ł	-						ŀ	ĺ		1			1	4	
∙12	AN526-1024-4			rew, Sh											İ	-		Ì			Į.	Ì	]	}	1	ļ		4	4	  - 
	630074A1			ottle an										-	Ì	1		İ			ĺ	-			1	į	[	1		
	632885-2A1		. Thro	ottle an	d Co	ontro	ol As	ssem	bly .				 .		ļ	- [		İ					1	Į		1		l	1	٨.
-13	630069A1			rottle /					-						-			-			ļ							1	Ι΄	•
-13	633143A1			rottle /										-	l		ĺ		1										1	3
-14	629904-2A1			ntrol A		-	-					_	•	ŀ	İ	İ					1	ĺ						1	١,	

FIG.	PART			Γ					ΓY				Α						٦
INDEX	NUMBER		12345 DESCRIPTION	C	D	E	F	G	H	J	K	L	M	N	Р	R	S	U	$\overline{V}$
66-14	632916-2A2		Control Assembly, Complete	1															1
			ATTACHING PARTS				}					l					- 1		
-15	501867		Washer, Tab		Ì						1	ļ				1	į	3	3
-16	537629		Screw, 1/4 - 20 x 21/32 Inch Long															3	3
			* * *		ì			ļ				Į		Ì			}		
	632558A1		Link Rod Assembly			ŀ								}			ļ	1	1
	625539A1		Link Rod Assembly									1			l		1	1	
-17	632558		Rod & Link Assembly												i				1
-17	625539		Rod & Link Assembly	l															1
-18	626634		Spring, Compression			ĺ				İ					}			[	il
-19 10	632557 625542		Rod End, Special						ļ		ļ							1	'
-19 -20	MS21044N3		Rod End, Special						}		}	-					ĺ	i	1
-21	625327-2		. Washer, Wave				ŀ	ļ			1				ļ			2	2
-22	537690		. Washer, Plain				}	1	-	ĺ			İ						2
·23	2500		. Pin, Cotter												}				2
-20	627544A1		. Shroud Assembly, Metering Unit, Complete				Į					ļ		ĺ			ļ	ī	~
-24	627544		Shroud Assembly, Bottom		İ		[									]		<b>,</b>	
-25	627545		. Shroud Assembly, Cover		Ì					}				}			i	1	ı
-24	633195		Shroud Assembly, Bottom		[					}		1							1
-25	633198		. Shroud Assembly, Cover		{	ĺ				ŀ		1	}		'				1
-26	626879-1		Grommet		}								İ		l			2	2
-27	537911		Nut, Tinnerman, Type J								ĺ		1	Į				2	2
-28	AN526-1024-4		Screw, Sheet Metal		Ì						ĺ	İ	Ì	ĺ	İ				2
-29	626891		Grommet, Rubber	İ								1						2	2
-30	631427A15		. Valve Assembly, Fuel Manifold						İ			1	}		l			1	
-30	631351-10A3		. Valve Assembly, Fuel Manifold			ļ						1	}	ļ	l	}		ıŤ	1
			(for detail parts see Figure 72)	l	ļ	}	ļ	ļ	ļ	ļ			-		ļ				
-31	635158-15.00		. Hose Assembly, Flexible, 1/4 ID x 15 Inch Long .		Ì		ļ	Į		Ì		}						1	
-31	635158-16.00		. Hose Assembly, Flexible, 1/4 ID x 16 Inch Long .		į					İ									1
-32	635158-17.00		. Hose Assembly, Flexible, 1/4 ID x 17 Inch Long .		ļ	1		ļ	1		Ì							1	
-32	635158-18.00		. Hose Assembly, Flexible, 1/4 ID x 18 Inch Long .	1	ĺ					İ	ļ	-	1						; }
-33	635158-40.00		. Hose Assembly, Flexible, 1/4 ID x 40 Inch Long .	ı	1				١		}	İ	1					i R	6
-34	627335D12	<b>3</b>	Nozzle Assembly, Fuel Injector	l	ŀ	1	ĺ	•				1			1			. – I	2
-35	628154		Tube Assembly, Fuel Discharge No. 1 & 6								}	1		-	ľ	1			2
·35	628153		Tube Assembly, Fuel Discharge No. 2 & 5					ĺ				1		1	l			2	2
-35	628152		. Tube Assembly, Fuel Discharge No. 3 & 4 Bracket, Fuel Discharge Tubes, 1-3-5 Side				}		ĺ			-						1	i
-36	641701	1	Bracket, Fuel Discharge Tubes, 1-3-3 Side	İ	1	ŀ				ļ						1 1		1	il
-37 -38	628295 626577-2		Clamp, Fuel Discharge							}								1 1	6
-39	625302-16.00		Duct, Flexible 1 Inch ID x 16 Inch Long							}					•				2
-40	AN737RM38		Clamp, Flexible Duct						Ì	}					•			2	
70	711737111130		olump, Freezible Duce 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1							Ì	ļ				]				
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MOTEC																			

- ① See Figure 71 for old style fuel pump and associated parts.
- ① This link rod assembly is to be used only with levers with no bushings. See Figures 69 and 75.
- 3 Check old nozzle on engine for nozzle size, stamped on hex, and order the complete nozzle part number (ie 627335D12C).

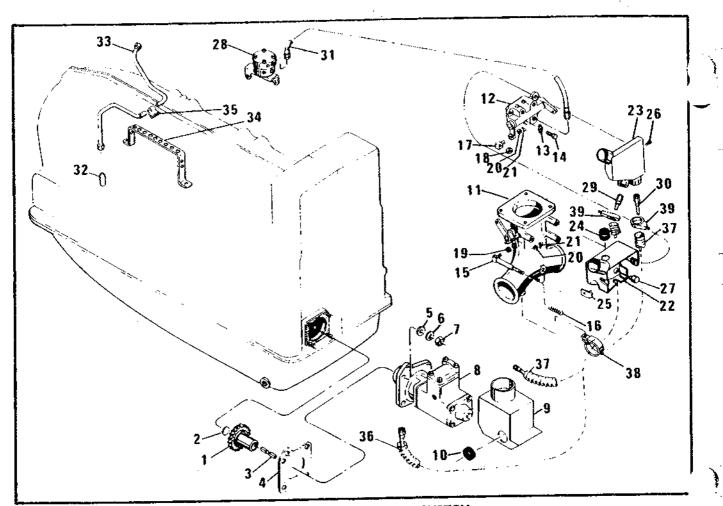


FIGURE 67 - FUEL INJECTION SYSTEM MODELS 10-470-D,E,G,P,R

FIG.	PART	Т					-		(	ΣU	Α	NTI	ΤY	' F	EF	₹	A	SSI	EM	B	Y			
INDEX	NUMBER		12345	DESCR	IPTION				1	Į	I	E G	Н	1	ĸ	L	M	N	Р	R	s	Щ	V.	
67-1	631684	<u>(1)</u>	Gear Assemb	ly, Fuel Pur	np Drive .				1	ı								Ì	1				Ì	
.2	539634	Õ	. Plug, Fuel l	Pump Gear		. <b></b> .		[	1		1	1	}	1					!	!	: [	Ì	Ĭ	
-3	631683	•	Coupling, Fu	et Pump						!	1	11	Ì	1	<b>!</b>				· !	'	ĺ	١	- [	
-4	534941		Gasket, Adap	ter-to-Cran	kcase			٠٠	1	!   '	1	]	1							4	ĺ		1	
-5	2473		Washer, Plain			<b></b> .			- [4	۱ ا	4	4							4	4		Į	- 1	: 13
-6	MS35338-45		Washer, Lock				<i></i> .		-   4	1	4	4		1					4	4			- 1	
-7	2439		Nut. Plain					•• [	1	1	4	4	1	ļ	'		ĺ		4	4			Ì	دين
	639257A5		Fuel Injectio	n Assembly	, Complet	e	<i></i>	[	- [	1				1		}	ĺ			,		ļ	- 1	
	639258A3		Fuel Injectio	n Assembly	, Complet	е	<i>.</i>	$\cdots$	j		!	- []	1	1	1	Ì	1		!				Ì	
-8	638154-9A2	0	. Fuel Pump	& Vapor St	eparator A	ddmezz	y	• •	ļ	1	1	1	ļ	İ	1		Ì	<b>'</b>	יין	<b>'</b> '		ļ	ŀ	
					* * *	* *		ļ				١.	1	1	ı		1		١.	,		l	Ì	
.9	631764		Shroud A						1	1		'	•		ļ	1		1	<b>!</b>	•	Ì		Ţ,	
.9	639266		Shroud A						ŀ	.	7	١.		İ			1		١.	٠		1	` ` <u>`</u>	سوده
-10	626879-1		Gromme						ŀ	4	4	4		ł		ĺ	1	1	4	4			ľ	ĺ
	627315A1		. Throttle an						ĺ	1	ا ـ			1					1	١,				l
	627315A2		. Throttle an						-  -		1	{1						l	ן'	1	]			ĺ
-11	627326A1		Throttle							7						ļ		1	١.	١.	1	Ì		
-11	627326A2		Throttle	and Lever A	Assembly .			· · ·	- 1		יי						1		1'	1	ļ	ļ		1
				s see Figure				l	-				I		1		1	l					¥	Ē
-12	625219-2A2		Control /	Assembly, C	omplete					1			. 1		}	ļ			١.	١.	1		أرب	1
-12	625219-2A3		Control /	Assembly, C	omplete .				- 1	ļ	1			ļ	ļ		1	1	11	ļŀ	ļ	,	}	j.

FIG.	PART NUMBER	T	12345		DESC	רפום	ri () Ai				-									AS					
111257	701110		12345								16	ΙD	ᄩ	ŀ	Li	Ш	4	K)	┺┤	MI	ЦP	╀	II.S	1	Цν
							CHIN												ļ			_			
67-13	501867		Washer, Tab									3	3	į	3		-	1	-			3			
-14	537629		Screw				<b>.</b>					3	3		3		ļ				3	3	1		
						•	* * *	*														١.			
	632558A1	_	Link Red A		-								1		1		}				1				
		(2)	Link Rod A									1	1	}	]		1		İ		1!	1!			ì
-15	632558	_	Rod and L				,					1		ļ	1				-		1!	1:			1
-15		<b>9</b>	Rod and L			-	-					1	1		1		-	-	ļ	-		1;	}		
·16	626634		Spring, Co									1	1	1	1			- 1	- {			Ľ	-		İ
-17	632557		Rod End,									1	'n		]						;			}	
-17		_	Rod End,									i	1	İ	[ ]   ]		}				'	;		1	ļ
-18	MS21044103		Nut, Elasti		-							2	2		2		-	i		-	1,	12			
-19 20	625327-2		Washer, Wav									2	2		2		ĺ		- }		2	2			
-20	537690		Washer, Plair									2	2	ļ	2			-	Ì		2	2			
-21	2500		Pin, Cotter .									1	ľ		4			1			2	1		Ì	
	627544A1 627713A1		. Shroud Assem									'	1		1		ł	1			1	١,			
-22	627544		. Shroud Assem Shroud Asse									1	'		ļ <b>"</b>		ļ		J		'	'		-	
-22 -22	627713		Shroud Asse									'	1		1		}		İ		1	1			
-23	627545		Shroud Asse									1	ľ		].					-	\	Ι.		1	}
·23	627734		Shroud Asse										1		1	1	1		İ		h	1			}
-24	626879-1		Grommet, I									2	2		2		1				2	2	.		
-25	537911		Nut, Tinner									2	1		1			i		1	1	1			
-26	AN526-1024.4		Screw									2	1		1		İ		Į		1	1			
-27	626891		Grommet, F									2	2		2						2	12			
-28	631427A15		. Valve Assemb										1	ļ	1	{	-	[						ļ	
_			(for detail pai										[							}				}	-
-29	635158-15.00		. Hose Assembl					x 15	Inch	Long	.	1	1	Ì	1	}		Ì		1	1	11			İ
-30	635158-17.00		. Hose Assembl	ly,	Flexit	ble, 1	/4 ID	x 17	Inch	Long	.	1	1		•		į	1				ŀ	1	ı	
-30	635158-13.00		. Hose Assembl										1		1						1	1		1	1
-31	635158-40.00		. Hose Assemble	lγ,	Flexit	ble, 1	/4 ID	x 40	Inch	Long	.	1		l		1	İ								
-31	635158-32.00	_	. Hose Assemble	ly,	Flexit	błe, 1.	/4 ID	x 32	Inch	Long	.		1	l	1	Ιİ					1	- 1	- 1		
∙32		3	. Nozzle Assemi									6	6	ļ	6	[	-					Įε			
-33	628154		. Tube Assembl									2	2	ĺ	2	}	ļ	ļ			2	- 14	1		
-33	628153		. Tube Assembl									2	2 2 6	ľ	2					<b>\</b>		2	2		
-33	628152		. Tube Assembl									2	2	ŀ	2 2		Į						2		
-34	626486		Bracket, Fuel Di									12	12	ļ	12		i						2		
-35 -36	626577-2		Clamp, Fuel Dis									1 5	b		6		Ì							-	
-20	625302-16.00		Duct, Flexible, 1									4	1	ŀ	1		ļ			1	1.	٦,	1	}	
-37	625302-12.00		Duct, Flexible, 1						_			1,	1 -		l¦	4 1	Ì						;		
-38	AN737RM38		Clamp, Flexible									2		1	ľ		Į				;	1	1		
-39	628264		Clamp, Hose	• •	• • • • •								'	1	[ '	{	j						١,	Ì	
																		j	Į					į	
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NOTES:											I	į		i	ļ	[ ]	1	ĺ	1	İ	ı	į	ļ	ı	į

① See Figure 71 for old style fuel pump and associated parts.

<sup>10</sup> This link rod assembly is to be used only with levers with no bushings. See Figures 69 and 75.

D Check old nozzle on engine for nozzle size, stamped on hex, and order the complete nozzle parts number (ie 627335012C).

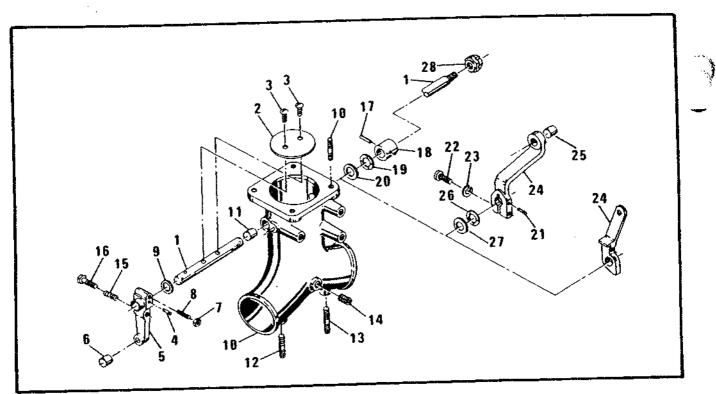


FIGURE 68 - THROTTLE AND LEVER ASSEMBLY MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

		WO.	DEE3 10-470-0,0,2,7-7-0,7-7-7		Г		A A		TV	P	FR		455	FN	/BI	Υ		
FIG.	PART	<u> </u>			<u>_</u>	20	-1-	11.	11	m	<u> </u>	<u> </u>	IN	Б	la l	ता	JV.	
INDEX	NUMBER	12345	DESCRIPTION		띡	սի	=  1	16	ļ <del>n</del>	, ,	<del>`   '</del>	<u>- II</u>	7 133	忙	''	3	21.	1
68-	625259A1	Throttle and I	_ever Assembly					Ì	rf	rf	ı	-			1			7
	626791A1	Throttle and	Lever Assembly		m	цĺ	-	İ	''	1 1		- [		1				ۇر
	627326A1	Throttle and	ever Assembly			"" }	пf	ri		1	- 1			1.1	rf		T	1
	627326A2	Throttle and	Lever Assembly	• • • • • • •			"	- ''		1	١,	rf			[ ]		1	İ
	627326A3	Throttle and	Lever Assembly	• • • • • •			,	ď		1		``	1	1				
	639766A1	Throttle and	Lever Assembly	• • • • • •			ľ	'	1		rf	- [	1.		1			1
	628429A1	Throttle and	Lever Assembly		l			1					15	f	1		1	1
	628775A1	Throttle and	Lever Assembly	• • • • • •			-1		1			Ì	rf	1	ĺ			1
	628861A1	Throttle and	Lever Assembly	• • • • • •			- 1		1	ļ			Ì	ı		rf	İ	1
	629397A1	Throttle and	Lever Assembly	• • • • • •	1		-	١	}	1		- {		١	ĺ	[ ]	пf	ŀ
	630069A1	Throttle and	Lever Assembly		-		- [	- }					- 1	1	İ		r	<b>{</b>
	633143A1	Throttle and	Lever Assembly			1		1		1	11	1		١	ļ			Log
-1	625454	Shaft-Air T	hrottle	• • • • • • •	1	1,	1	1	1	1		1	1	1 1	1	Į i		:
-1	625600		hrottle		1	!	1	1	'   '			ľ			ļ	1		1
-1	631819	, Shaft-Air T			1	'		١	ļ					-	1		11	1
-1	630124	, Shaft-Air T	hrottle	• • • • • • •	1			-1	1	1	1	ļ				1		1
-2	539941		hrottle		١,	1	11	1	ı   1			11	1	1	1   1	1	1	1
.2	625601	. Plate-Air T			1'	'	١.١	1	Ί.					1			1	1
			ATTACHING PARTS	3			إرا		٠,	,   ,	1	2	ا را	ر ر	,   ,	12	2	
-3	539942	. Screw-Thro	ottle Plate						- 1						- 1		ιı	100
	••••		* * * *  r, Lever  ittle Control		١.	١.	١. ١	,	٠١,	١,	1.	١,	1	1	1 1	11	111	1
-4	626813	. Pin-Tubula	r, Lever		1:		1	;		<u> </u>	;	1:	;	il	, l			
-5	632555-44	① . Lever-Thro	ttle Control		۱'	'	'	'	<b>'</b>   '	'   '	'	Ι'	ļ'	1	١.	1	1 1	1
·5	632555-23	(1) Lever-Inro	ittle Common			Ł	1		- 1	- 1	1	1	1 1	- 1	- 1		111	1
-5	632556	1 Lever-Thro	ettle Control	• • • • • • •	٠   ،	١,	1	1	<b>,</b> ].	,   <sub>1</sub>	1,	1	1, 1	1	1   1	1 1	ļ	1
-6	632554-2	Bushing		• • • • • • •	۱,	1,	1;		<b>,</b>	,   i	li.	i	ا <b>ا</b> ا	1	1 1			)
-7	13XX18130	. Nut, 8 - 32			֓֞֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֟֜֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֡֓֓֡֓֡֓֡֓֡	1;	'	;	,	; ¦;	1,	1		1	1 1	1		Ì
-8	AN565E8H16	. Screw, Set	******		٠ [ '	1,	"	''	• 1	٠١,	1 *	1,	1 7 1	٠, ١	. ,	ı	_	•

Γ	FIG.	PART						TI								ıBl			
į	NDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	6	H	J	K	L	M	N			S	υļ	ᅬ
	68-9	625457	. Washer, Plain	1	1	1	1	]1	1	1	1	1	1	[1	1	1		1	1
_	-9	625457-1	. Washer, Plain				ĺ										1		1
	-10	626226A1	Body Assembly - Air		ļ			1		1						ļ	1	ļ	-
	- 10	626234A1	. Dody Assembly All	1	١.		İ	١.	,	}		١,	ļ	İ	,	1		.	. 1
	-10	625735A1	. Body Assembly · Air	ĺ	1	[1		1				•		}		<b>;</b>	}	1	١
	-10	626735A2	. Body Assembly · Air			ł	,					ļ	'					-	
	-10	639437	② . Body Assembly · Air	1	}		1			İ	l.	}		1				Ì	i
	-10	628382A1	. Body Assembly - Air					-	Ì		'			,	1			Ì	Į
	-10	628528A1	. Body Assembly - Air	1	1			ļ			}			'			,		
	-10	629324A1	. Body Assembly · Air	2	2	2	,	2	2			2	2	,	2	,	2	2	2
	-11	630455	Bushing - Air Throttle	ľ	2	2	1	2	ľ		ĺ	2	2		2	2		2	5
	-12	401893	7 Stud · 1/4 x 1-1/4 Inch Long		1	۲		1	ļ	}		1		1	ľ	-	2	۱ ٔ	
	-12	402711	t , , Stud - 1/4-20 x 1/4-28 x 7/8 ln. Lg		}				ĺ				2				-		
	-13	628981	1 Stud - 1/4-20 x 1/4-28 x 1-5/16 in. Lg	ĺ	1	1		h				1	1		1	1	1	1	
	-14	AN932-2	. Plug - Manifold Pressure Boss	1	1	i	h	1	1	1	1	li	li	1	i		i' I	1	1
	-15	626634	Spring - Idle Adjusting	ľ	ľ	i			j.		1				1		I. I	i	1
	-16	639479		li	i	ľ	[	1	ľ	ľ	li	ľ	ľ	1	ľ	ľ		i	1
	-17	626813	. Pin · Tubular, Collar	li	1				ľ	li	li	}		h	ļ		{	1	i
	-18	625238	. Washer - Wave	li	ľ	1	h	ļ	li	h	1			1			lı İ	1	1
	-19 -20	625327-1 625457	Washer Plain	li	1	ļ	li		1	1	1			1			1	1	
	-21	626813	Pin - Tubular, Throttle Lever	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	-22	AN501-10-10	•		1	1		3			1		1	1	3	1			
	-22	AN501-10-14	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	h	-				1	1	1			þ	ŀ		[		
	-23	13XX-260	. Lockwasher - Throttle Lever		1	1		1	1	1	1		1	1	1	1			
	-24	626910	. Lever - Throttle Shaft	1	Ì			ļ	1	1	1			1	ļ				
	-24	632555-32	① Lever - Throttle Shaft	1	1	ļ			1	ļ	{		1		ļ	ļ			
	-24	632555-33	① . Lever - Throttle Shaft		į	1	1			ļ		1		1		1			
	-24	632555-48	① Lever - Throttle Shaft	1	1	1		1					l	-	1	1			
	-24	632555-47	① . Lever - Throttle Shaft	1					1				1		İ				
	-24	632555-31	① Lever - Throttle Shaft		1	1		1			]	1	1				1		, ;
	-24	632555-25	① Lever - Throttle Shaft								١	1	1		1	ĺ	•		
	-25	632554-1	Bushing					1				1	1		1	1	[1]	1	1
	-26	625327-1	. Washer - Wave			1		1		ŀ		1	1			1			
	-27	625457	. Washer - Plain		1	1		1				1	ון		1	1	1		
	-28	2457	. Nut-Throttle Shaft		1	-			Ì			1	l			1	li	1	J
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① These levers are a new style which incorporate harden bushings. If replacing old style levers with no bushings, it will be necessary to order, in addition to new levers a new link rod assembly. See appropriate application Figures 60 thru 67.

<sup>3)</sup> If replacing old style throttle body, which has cast mount legs, it will be necessary to order, in addition to new throttle assembly, a 639410 bracket, a 639411 bracket and 4 each 530346 bolts.

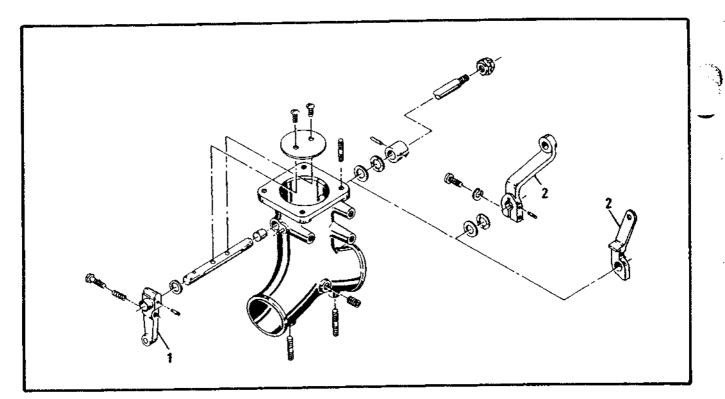


FIGURE 69 - THROTTLE LEVERS (OLD STYLE)
MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

FIG.	PART	T										 	Τ										LY			
INDEX	NUMBER	1	1	234	5 _	DI	ESC	RI	PTI	ON		 	_	•	_	_	_	_	,—	,—			S	U	VI	1
69-1 -1 -2 -2 -2 -2 -2	625228 629329 629871 627809 629418 628095 628914 631818	000000	) Le ) Le ) Le ) Le ) Le	ever, T ever, T ever, T ever, T ever, T ever, T	hrottle hrottle hrottle hrottle hrottle hrottle	Cor Cor Sha Sha Sha Sha Sha	ntro ntro ntro aft aft aft	d				 	1	•	1	_	_	_	,—	,—		1		-		

These are old style levers which are no longer available. For replacement order new lever found in Figure 68 and a new rod assembly. See appropriate application, Figures 60 thru 67.

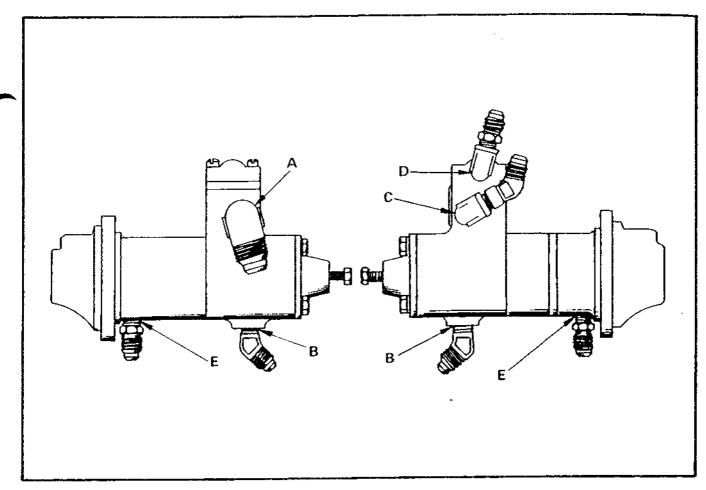


FIGURE 70 - FUEL PUMP AND VAPOR SEPARATOR FITTING LOCATIONS(NEW STYLE)
MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

	Fuel Pump & Vapor Sep. Number	INLET Fitting "A" Number	OUTLET Fitting "B" Number	MIXTURE RETURN Fitting "C" Number	VAPOR RETURN Fitting "D" Number	SEAL DRAIN Fitting "E" Number
10-470-C, D, E, F, G, H, J, K, N, P, R	638154	632017 AN832-6B	628437	628478	628476	
10-470-L	638154	632017 630065	628437	628478	627119 628476	
10-470-M	638154	632017 637286	628436	628478	AN816-6-2 627119	
10-470-\$	638154	628475	628436	628478	628476	
10-470-U	638154	632017 AN823-6B	627119 628438	628478	628476	
10-470-V	638154	632017	628436	628478	628476	628438

See Figure 71 for old style pump.

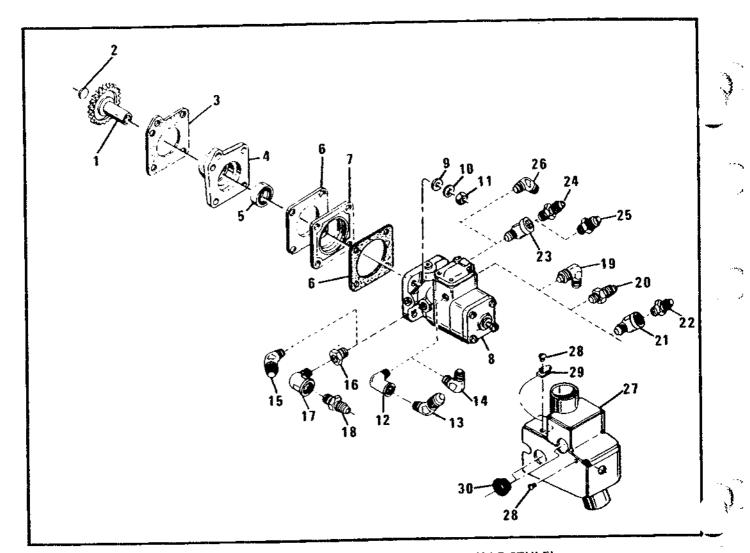


FIGURE 71 - FUEL PUMP ASSEMBLY, COMPLETE (OLD STYLE)
MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U

FIG.	PART			Q	U/	۱N	TI	ŢΥ		PEI	R	A	SS	ΕN	1B!	LY	'		
INDEX	NUMBER	12345 DESCRIPTION	C	D	Ε	F	G	Н	J	K	L	M	N	P	R	S	U	V	
71-1	534995	Gear Assembly, Fuel Pump	1	1	1	1	1	1	1	!	1	1	1	1	1	1	1		
-2	539634	. Plug, Expanison	11	1	1	1	!	I	!	!!		1:		'	;	1	¦		
-3	534941	Gasket, Fuel Pump to Crankcase	]	11	[]	ו	[]	!	<u> </u>	!!	!	1:	¦	ļ, '	١;	;	;		
-4	627518	Adapter Assembly, Fuel Pump		1!			!	1:			[]	1;	1	;	ľ	1	,	\$	
-5	534956	Seal, Oil	[]	1	!	!!	Ľ		!		1	1:	1:	;	\ <u>;</u>	1	1;	ļ	نداخ
-6	MS9137-01	Gasket, Adapter to Fuel Pump	1!	Ľ	1:	1	Ľ	¦	;	;	1	1:	1;	1;	;	1,	1;		1
-7	626839	Insulator, Fuel Pump	1;	'	¦	H	Ľ		'	;	ľ	i,	;	١;	1	1	1		
-8	638156	Fuel Pump & Vapor Separator Assy, Complete	1	'	'	'	י ו	[ '	'	1	'	Ι.	<b>'</b>	Ι.	Ι'	Ι'	Ι'	ļ	
		ATTACHING PARTS		ł		1	1		1	ı	1	١.		١,	١,	١,			١.,
.9	2473	Washer, Plain			14	4	4	14	14	14	4	4	1.	17	4	17	4	É	
-10	MS35338-45	Washer, Lock	4	4	1 -							4				"	1,	\	است
-11	2439	Nut, Plain, Hex	4	4	4	14	4	4	4	4	4	"	"	"	"	"	1"		1
		* * * *	١.	١.	١.	١.	١.	١.	١.	١,	1	١.	١.	١,	١,	١,	١,		1
-12	632017	. Elbow, 90 Degree	٠['	1:	1:	[	;	1;	;	1:		'	1;	H	;	Ι'	;		
-13	AN823-6B	Elbow, 45 Degree	۱,	'	'	11	'	'	'	'	1	١.	'	'	۱,		!'	Ì.	1
∙13	637286	. ElBOW, 40 Degree	' [	1	ì	١.				١,		'	İ			١,	Ì		)
-14	628475	. Elbow, 90 Degree	١.	١.	١.	;	١.	١,	١,	1,		ļ	١,	١.	١,	Ι'	-		3
-15	629267	Elbow, 45 Degree	. [ ]	ļ	, ,	[	ļ	ļį	1 '	,	ļ	ı	1,	1 1	11	I	١,		. ' -

FIG.	PART				QŲ												
INDEX	NUMBER	12345 DESCRIPTION	C	D	E	F	G	Н	J	K	L	М	N	Р	R	S	υŢ
71-15	630089	. Elbow, 45 Degree	ĺ	ļ				}	}			1	ļ		.	1	
-16	X12143	Bushing, Reducing			l						1		1			Ì	1
-17	627119	. Elbow, 90 Degree							Ì		1		1		i	- 1	1
-18	628438	. Fitting, Connector		1							[1		1			Ì	1
-19	628478	. Elbow, 90 Degree	1	1	1	1	1	1	1	1	[1	1	1	1	1	1	1
-20	628438	. Fitting, Connector		ĺ		ļ	1			}	] ]	1				{	
-21	627119	Elbow, 90 Degree					}						}			ļ	
-22	AN816-4B	Nipple	l	}	1	}	1				}				İ	ļ	ĺ
-23	627119	. Elbow, 90 Degree		}		}	}				ŀ	1	!!			į	
-24	628438	. Fitting, Connector			1	}			ŀ		Ì	١.	י		l i	Ì	- [
-25	AN816-6-2	Nipple	١,	١.	١.		١,	,	١,	,	Ì		١,	1			. [
-26	628476	Elbow, 45 Degree	l:	1	! !	ļ,		'	<b>!</b>	;	١,	١.					:1
-27	639268		['	['	'		,	<b>'</b>		[ '		<b> </b>	'	'	'	'	•
		ATTACHING PARTS	١.	١.	}_					_							
-28	AN526-1024-4	. Screw, Sheet Metal	14	14	4	4	4	4	4	4		4				4	4
-29	534337	. Nut, Tinnerman, Type J	4	14	4	4	4	4	4	4	4	4	4	4	4	4	4
	22222	* * * *	۱	٦	١,	۱	۱	,	٦	,	١		_			ٳ	
-30	626879-1	. Grommet	4	~	۲	۷.	4	۷,	4	4	12	{ 4	۲	2	4	4	2
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<sup>&</sup>quot;OTE:

This fuel pump is no longer available. For replacement order appropriate pump (found in Figures 60 thru 67) and a service kit P/N EQ6537.

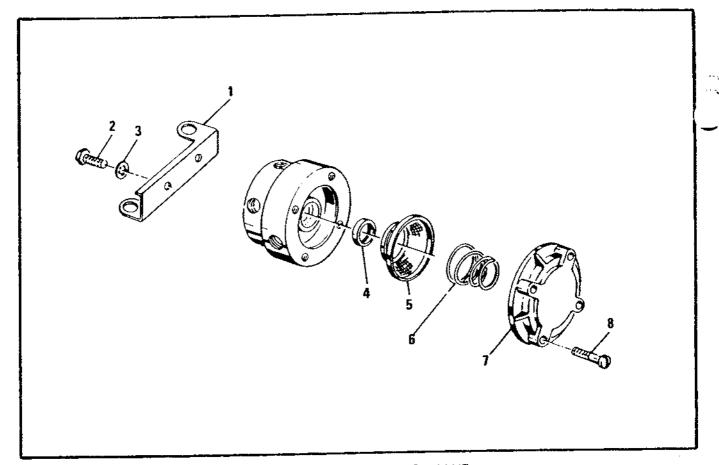


FIGURE 72 - FUEL MANIFOLD VALVE MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U

FIG.	PART				Ĺ				IT		PE			<u>ss</u>				_		₹
INDEX	NUMBER	12345	DESCRIPTION		C	D	E	E	G	HŢ.	ЦК	Щ.	M	N	P	R	S	щ	-	
72-	631427A15	Fuel Manifold	I Valve Assembly		1	1	1		1	1	ij			1	1	1		1	-	
	631427A16	Fuel Manifold	Valve Assembly						ı	1	}	ļ	1						- 1	
	631427A17	Fuel Manifold	I Valve Assembly				ļ	1	-		١.	1					1	ĺ	١	
	631427 A 19	Fuel Manifold	I Valve Assembly			.		ļ		1	1	١.	ļ					1	Ì	
	631427-3A2	Fuel Manifold	Valve Assembly					ĺ	j			1		1						
	631351-10A3	Fuel Manifold	Valve Assembly							Ţ	.   .	١.	1	١.		ا			Н	
-1	642064	Bracket			1	1	1	1	1	1	1	1	ון	1	1	1	1	ı	'	
			ATTACHING PART	S								1								
-2	AN500-10-5	Screw			2	2	2	2	2	2	2   2	2	2	2	2	2	2	2	21	
.3	22910	Washer, Lock	ATTACHING PART		2	2	2	2	2	2	2   2	2	2	2	2	2	2	2	2 [	_
•						t I	i I		l t		- 1	·				•		ì		£ 4,65
-4	631330	Seal	* * * *		1	1	1	1	1	1	1	1	11	]	1	1	1		1	
-5	626557																			
-6	627378	Spring			"	1	1	1	1	1	1   1	1	[1	1	1	1	1	1		
-6	630184	Spring					: 1		: 1		- 1	,		1	•	ŧ		1 3	1	
-7	626553	Cover			1	1	1	1	1	1	ון ו	1	11	1	1	1	11	]		
			ATTACHING PART	S	ı										ĺ	İ				رن
-8	AN500A8-10	Screw			4	4	4	4	4	4	4 4	l   4	4	4	4	4	4	4	4	
•		*	* * * *							ļ										ı
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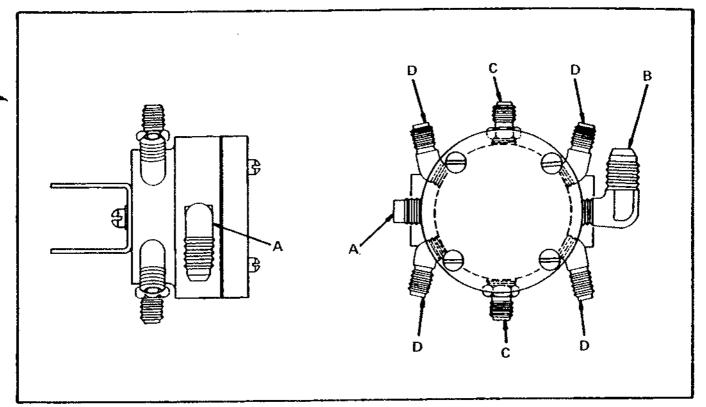
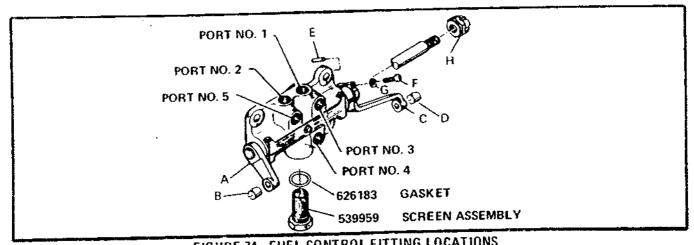


FIGURE 73 - FUEL MANIFOLD VALVE FITTING LOCATIONS MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

	Fuel Manifold Assembly Number	Fitting "A" Number	Fitting "B" Number	Fitting "C" Number	Fitting "D" Number
10-470-C,D,E,G,H,J,L,N,P,R,U	631427	Plug 629518-1H	628437	AN780-2	627331
IO-470-K	631427	631658	628437	AN780-2	627331
10-470-M	631427	628437	628437	AN780-2	627331
10-470-F,S	631427	631720	628437	AN780-2	627331
10-470-V	631351	631720	628437	AN780-2	627331



CICHOE 74.	FIIFE	CONTROL	FITTING	LOCATIONS

			FIGURE.	/4 · FUEL	CONTRO	E latain	6 LUCA	10710			
Model 10-470	C-H-N	D	E-G-P-R	F	J	κ	<u> </u>	M	<u>s</u>	U	V
Control Assy. Fuel Inj. P/N	625219-2	625219-2	625219-2	625219-2	625219-1	625219-1	625219 <u>-2</u>	625219-2	62970 <u>3-2</u>	632904-2	<u>632916-2</u>
Port No. 1 Fitting P/N	627119 628437	627119 628437	627119 628437	630119 628476	627119 628437	627119 628437	630119 627119 628438	X12470 627119 628478	627119 630119 628437	627119 628437	633343 628437
Port No. 2 Fitting P/N	626900 628437	628476	626900 628434	628437	626900 628437	628437 626900	628437	628437	AN932-2	628476	628437
Port No. 3 Fitting P/N	AN932-2	AN932-2	AN932-2	AN932-2	AN932-2	AN932-2	AN932-2	AN932-2	AN932-2	AN932-2	AN932-2
Port No. 4 Fitting P/N	628437	627642 AN932-2 628438	628437	628437	628437	628437	628437	627642 2024 628438	630119 628478	627642 2024 628438	628438 2024 634195
Port No. 5 Fitting P/N	627119 626900 628434	626900 628434	628437	AN932-2	627119 626900 628434	AN932-2	AN932-2	AN932-2	628 <u>43</u> 8	626900 628434	AN932-2
Metering Control Lever "A" No.	0	0	0	① 632555-24	① 632555-24	① 632555-24	① 632555 <u>-2</u> 4	① 632555-24	① 632555-5	① 632555-24	① 632555-2
Bushing Metering Lever "B" No.	632554-2	632554-2		632554-2	632554-2		632554-2			<u>.</u>	
Mixture Control Leves "C" No.	626910	①	0	① 632555-46	626910	626910	① 632555-46	① 632555-46	① 632555-28		
Bushing Mixture Lever "D" No.	0.0010	632554-1	632554-1	632554-1			632554-1	632554-1	632554-1		
Pin Mixture Lever "E" No.	626813	626813	626813	626813	626813	626813	626813	626813	<u>626813-1</u>	<u> </u>	
Screw Mixture Lever "F" No.	AN501 -10-14	AN501 -10-10		AN501 -10-10	AN502 -10-14	AN502 -10-14	A N 501	AN502 -10-14			
Lockwasher Mixture Leves "G" No.		13XX260		13XX260	13XX260	13XX260	13XX260	13XX260		<u></u>	
Nut Mixture Lever "H" No.										MS21042 -5	MS21042

NOTE: L

<sup>1</sup> These levers are a new style which incorporate harden bushings. If replacing old style levers with no bushings, it will be necessary to order, in addition to new levers a new link rod assembly. See appropriate application, Figures 60 thru 67.

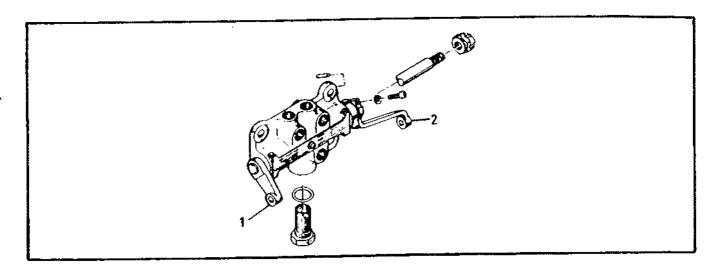


FIGURE 75 - FUEL CONTROL LEVERS(OLD STYLE)
MODELS 10-470-C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V

FIG.	PART					<u> </u>	AL	.IT	Ϋ́	P	EF	 AS	 SSI	EΜ	BL	Υ	
		12345	DESCRIPTION	C													υV
75-1 6279 -1 629 -1 6299 -2 5399 -2 6299	590 ① 111 ① 351 ① 989 ① 326 ①	Lever, Mixture Lever, Mixture Lever, Mixture Lever, Metering Lever, Metering	Control	1	1	1	1	1				1		1	1	1	dua dua de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la company

#### NOTE:

① These are old style levers which are no longer available. For replacement order new lever found in Figure 74 and new link red assembly. See appropriate application, Figures 60 thru 67.

## **SECTION III**

## OVERSIZE AND UNDERSIZE PARTS LIST

PART NO.	NAME	DESCRIPTION	PART NO.	NAME	DESCRIPTION
25008P003	Stud	.003" OS on PD	401816P003	Stud	.003" OS on PD
	Stud	.006" OS on PD	401816P007	Stud	.007" OS on PD
	Stud	.009" OS on PD	401816P012	Stud	.012" OS on PD
05000000045	D 1: 0/	001511 05 05	401824P003	Stud	.003" OS on PD
		.0015" OS on OD	401824P007	Stud	.007" OS on PD
350998P003	Bushing-C/wgt	.003" OS on OD	401824P012	Stud	.012" OS on PD
350998P005	Bushing-C/wgt	.005" OS on OD	4010246012	Stud	.012 03 011 10
35966P005	Insert	.005" OS on OD	401830P003	Stud	.003" OS on PD
35966P010	Insert	.010" OS on OD	401830P007	Stud	.007" OS on PD
35966P015	Insert	.015" OS on OD	401830P012	Stud	.012" OS on PD
35966P020	Insert	.020" OS on OD			
35966P030	Insert	.030" OS on OD	401836P003	Stud	.003" OS on PD
303001 030	1119 <del>0</del> 1 (	.000 00 000	401836P007	Stud	.007" OS on PD
2007000	l	.005" OS on OD	401836P012	Stud	.012" OS on PD
35967P005	Insert	.010" OS on OD	1070001012	0120	
35967P010	Insert	. =	401841P003	Stud	.003" OS on PD
35967P015	Insert	.015" OS on OD	401841P007	Stud	.007" OS on PD
35967P020	Insert	.020" OS on OD	401841P012	Stud	.012" OS on PD
35967P030	Insert	.030" OS on OD	4010416012	3160	.012 03 01110
401798P003	Stud	.003" OS on PD	401852P003	Stud	.003" OS on PD
401798P007	Stud	.007" OS on PD	401852P007	Stud	.007" OS on PD
401798P012	Stud	.012" OS on PD	401852P012	Stud	.012" OS on PD
		000// OC BD	401860P003	Stud	.003" OS on PD
401804P003	Stud	.003" OS on PD	401860P007	Stud	.007" OS on PD
401804P007	Stud	.007" OS on PD	401860P007	Stud	.012" OS on PD
401804P012	Stud	.012" OS on PD	4010000012	Stud	.012 03 011 1
401806P003	Stud	.003" OS on PD	401861P003	Stud	.003" OS on PD
401804P007	Stud	.007" OS on PD	401861P007	Stud	.007" OS on PD
401804P012	Stud	.012" OS on PD	401861P012	Stud	.012" OS on PD
4040000000	Ctood	.003" OS on PD	401870P003	Stud	.003" OS on PD
401808P003	Stud	.003 OS 01 PD	401870P007	Stud	.007" OS on PD
401808P007	Stud		401870P012	Stud	.012" OS on PD
401808P012	Stud	.012" OS on PD	4010/010/2	Otaa	.012 00 0111 0
401809P003	Stud	.003" OS on PD	401881P003	Stud	.003" OS on PD
401809P007	Stud	.007" OS on PD	401881P007	Stud	.007" OS on PD
401809P012	Stud	.012" OS on PD	401881P012	Stud	.012" OS on PD
401014000	Carret	.003" OS on PD	401885P003	Stud	.003" OS on PD
401814P003	Stud		401885P007	Stud	.007" OS on PD
401814P007	Stud	.007" OS on PD	401885P012	Stud	.012" OS on PD
401814P012	Stud	.012" OS on PD	4010001012	Jeda	.012 0000110
			I		

PART NO.	NAME	DESCRIPTION	PART NO.	NAME	DESCRIPTION
4010000000	Ctual	.003" OS on PD	402151P003	Stud	.003" OS on PD
401886P003	Stud	.003 OS 01 PD	402151P007	Stud	.007" OS on PD
401886P007	Stud	.012" OS on PD	402151P012	Stud	.012" OS on PD
401886P012	Stud	.012 OS ON PU	4021311012	otati	.012 00 011 1 0
401893P003	Stud	.003" OS on PD	402153P003	Stud	.003" OS on PD
401893P007	Stud	.007" OS on PD	402153P007	Stud	.007" OS on PD
401893P012	Stud	.012" OS on PD	402153P012	Stud	.012" OS on PD
4040055000	0	.003" OS on PD	402162P003	Stud	.003" OS on PD
401895P003	Stud		402162P007	Stud	.007" OS on PD
401895P007	Stud	.007" OS on PD	402162P012	Stud	.012" OS on PD
401895P012	Stud	.012" OS on PD	4021021012	3100	.012 03 011 13
401899P003	Stud	.003" OS on PD	402711P003	Stud	.003" OS on PD
401899P007	Stud	.007" OS on PD	402711P007	Stud	.007" OS on PD
401899P012	Stud	.012" OS on PD	402711P012	Stud	.012" OS on PD
4010638003	Carrel	.003" OS on PD	530383M010	Bearing-C/rod	.010" US on ID
401963P003	Stud	.003 OS 011 PD	330000	Dearing Orrod	.0.0 00 00
401963P007 401963P012	Stud	.007 OS on PD	534895P015	Piston	.015" OS on OD
4019035012	Stud	,012 03 011 D	00.000.010		
401965P003	Stud	.003" OS on PD	535661P020	Camshaft	.020" OS on OD
401965P007	Stud	.007" OS on PD	ĺ		
401965P012	Stud	.012" OS on PD	536563P005	Dowel-C/shaft	.005" OS on OD
4010710000	Cr. J	.003" OS on PD	537341P015	Spring - Clutch	.015" US on ID
401971P003	Stud	.003 OS on PD	3373411013	opining orditori	.010 00 011 10
401971P007	Stud		537883P015	Piston	.015" OS on OD
401971P012	Stud	.012" OS on PD	3370031013	1 131011	.010 00 011 00
401977P003	Stud	.003" OS on PD	538404P003	Stud	.003" OS on PD
401977P007	Stud	.007" OS on PD	538404P006	Stud	.006" OS on PD
401977P012	Stud	.012" OS on PD	538404P009	Stud	.009" OS on PD
				<b>5</b> . 5	00511.00
402042P003	Stud	.003" OS on PD	539467P005	Pin - Piston	.005" OS on OD
402042P007	Stud	.007" OS on PD	#80000011045	0 1 01 1	045// 1/0 - 1/0
402042P012	Stud	.012" OS on PD	539800M015	Spring - Clutch	.015" US on ID
402048P003	Stud	.003" OS on PD	539814P015	Piston	.015" OS on OD
402048P007	Stud	,007" OS on PD	1		
402048P012	Stud	.012" OS on PD	626739M010	Collar - C/shaft	.010" US on ID
			0200020045	Distant	015" 00 00
402056P003	Stud	.003" OS on PD	626992P015	Piston	.015" OS on OD
402056P007	Stud	.007" OS on PD	627480P005	Ring - Piston	.005" OS on OD
402056P012	Stud	.012" OS on PD	627480P015	Ring - Piston	.015" OS on OD
402066P003	Stud	.003" OS on PD	02/400/013	11111g - 1 131011	00 110 00 010.
402066P007	Stud	.007" OS on PD	627738P015	Piston	.015" OS on OD
402066P012	Stud	.012" OS on PD	02,700,010	, 13(0))	.010 00 011 00
4020001012	Stud	.012 03 01110	628198M010	Collar - C/shaft	.010" US on ID
402127P003	Stud	.003" OS on PD			
402127P007	Stud	.007" OS on PD	628981P003	Stud	.003" OS on PD
402127P012	Stud	.012" OS on PD	628981P006	Stud	.006" OS on PD
			628981P009	Stud	.009" OS on PD
402129P003	Stud	.003" OS on PD			
402129P007	Stud	.007" OS on PD	629848M010	Bearing-C/shaft	.010" US on ID
402129P012	Stud	.012" OS on PD	Į.		

PART NO.	NAME	DESCRIPTION	PART NO.	NAME	DESCRIPTION
630591P005	Insert	.005" OS on OD	639568P005	Ring - Piston	.005" OS on OD
630591P010	Insert	.010" OS on OD	639568P015	Ring - Piston	.015" OS on OD
630591P015	Insert	.015" OS on OD	300000. 272	, , , , , , , , , , , , , , , , , , ,	
630591P020	Insert	.020" OS on OD	639573P010	Washer - Thrust	.010" OS on OD
630591P030	Insert	.030" OS on OD	639573P020	Washer - Thrust	.020" OS on OD
0000011 000	1113511	.000 0000	639573P030	Washer - Thrust	.030" OS on OD
630826M010	Bearing - C/rod	.010" US on ID			
000020111010	Dearing - C/100	.010 00 01112	639768P005	Ring - Piston	.005" OS on OD
631481P015	Piston	.015" OS on OD	639768P015	Ring - Piston	.015" OS on OD
001.011.015	, 151011	.0,0		•	
631496P005	Guide - Valve	.005" OS on OD	640518P015	Piston	.015" OS on OD
631496P010	Guide - Valve	.010" OS on OD			
631496P015	Guide - Valve	.015" OS on OD	641960P005	Guide - Valve	.005" OS on OD
631496P020	Guide - Valve	.020" OS on OD	641960P010	Guide - Valve	.010" OS on OD
631496P030	Guide - Valve	.030" OS on OD	641960P015	Guide - Valve	.015" OS on OD
		i i	641960P020	Guide - Valve	.020" OS on OD
631867P003	Stud	.003" OS on PD	641960P030	Guide - Valve	.030" OS on OD
631867P006	Stud	.006" OS on PD			
631867P009	Stud	.009" OS on PD	642086P005	Ring - Piston	.005" OS on OD
			642086P015	Ring - Piston	.015" OS on OD
632319M010	Bearing-C/shaft	.010" US on ID			
	•		642720M010	Bearing - C/shaft	.010" US on ID
632932P015	Piston	.015" OS on OD			
633136M010	Bearing-C/shaft	.010" US on ID			
639565P005	Ring - Piston	.005" OS on OD			
639565P015	Ring - Piston	.015" OS on OD			
639566P005	Ring - Piston	.005" OS on OD			
639566P015	Ring - Piston	.015" OS on OD			
639567P005	Ring - Piston	.005" OS on OD			
639567P015	Ring - Piston	.015" OS on OD			

#### **SECTION IV**

## REPAIR SETS AND MATERIALS

641543 Thread-Silk 260 Yd. Spool 642188 Gasket Paste 1 Oz. Tube 536092A1 Gasket Set - Complete Overhaul Standard 536092A2 Gasket Set - Complete Overhaul Standard 536092A3 Gasket Set - Complete Overhaul Standard 536092A4 Gasket Set - Complete Overhaul Standard 626049A1 Gasket Set - Complete Overhaul Standard	AII AII O-470-A-E-J O-470-B-M O-470-D-F-M-U-V O-470-K-L-R-S-U-V IO-470-J-K O-470-G-P IO-470-C-E-G-H-L
642188 Gasket Paste 1 Oz. Tube 536092A1 Gasket Set - Complete Overhaul Standard 536092A2 Gasket Set - Complete Overhaul Standard 536092A3 Gasket Set - Complete Overhaul Standard 536092A4 Gasket Set - Complete Overhaul Standard	All O-470-A-E-J O-470-B-M O-470-D-F-M-U-V O-470-K-L-R-S-U-V IO-470-J-K
536092A1 Gasket Set - Complete Overhaul Standard 536092A2 Gasket Set - Complete Overhaul Standard 536092A3 Gasket Set - Complete Overhaul Standard 536092A4 Gasket Set - Complete Overhaul Standard	O-470-A-E-J O-470-B-M O-470-D-F-M-U-V O-470-K-L-R-S-U-V IO-470-J-K
536092A2 Gasket Set - Complete Overhaul Standard 536092A3 Gasket Set - Complete Overhaul Standard 536092A4 Gasket Set - Complete Overhaul Standard	O-470-B-M O-470-D-F-M-U-V O-470-K-L-R-S-U-V IO-470-J-K
536092A3 Gasket Set - Complete Overhaul Standard 536092A4 Gasket Set - Complete Overhaul Standard	O-470-K-L-R-S-U-V IO-470-J-K
536092A4 Gasket Set - Complete Overhaul Standard	10-470-J-K
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
	N-P-R-S
642106	O-470-A-J 1O-470-J-K
642107 ① Gasket Set · Top Overhaul Standard	O-470-B-G-K-L-M-P-R-S
UNITED TO CONTROL OF CHARACTER CONTROL	1O-470-C-D-E-F-G-H-L-M-N S-U-V
642108	
639567A9 3 Ring Set - Single Cylinder Standard	O-470-A-B-E-J-M-P IO-470-J-K (534895 & 537883 Piston)
639567A9P005 ③ Ring Set - Single Cylinder .005 OS on OD	. 10(01)
639567A9P015 Pring Set - Single Cylinder .015 OS on OD	
639567A10   Ring Set - Single Cylinder Standard	O-470-K-L-R (626992 piston)
639567A10P005 Ring Set - Single Cylinder .005 OS on OD	,
639567A10P015 Ring Set - Single Cylinder .015 OS on OD	
639567A12	O-470-K-L-R (632932 piston)
639567A12P005 Ring Set - Single Cylinder .005 OS on OD	•
639567A12P015 Ring Set - Single Cylinder .015 OS on OD	
639566A1 3 Ring Set - Single Cylinder Standard	O-470-G IO-470-C-G-P-R (539814)
639566A1P005  Ring Set - Single Cylinder .005 OS on OD	
639566A1P015  Ring Set - Single Cylinder .015 OS on OD	
639565A8	O-470-R-S-U (640518 & 631481 piston)
639565A8P005    Ring Set - Single Cylinder .005 OS on OD	•
639565A8P010 3 Ring Set - Single Cylinder .010 OS on OD	
639565A5 3 Ring Set - Single Cylinder Standard	IO-470-D-E-F-H-L-M-N-S-U-V (627738 Piston)
639565A5P005 Ring Set - Single Cylinder .005 OS on OD	,
639565A5P010 © Ring Set - Single Cylinder .010 OS on OD	
639723	O-470-J-K-L-M-P 10-470-J-K (534895 & 537883 piston)
639726	O-470-G- 1O-470-C-G-P-R (539814 piston)
639734	0-470-K-L-R (626992 piston)
639736	0-470-K-L-R (632932 piston)
639734	O-470-R-S-U IO-470-D44, -V6, -V8, -V9, -V10 (640518 & 631481 piston)

PART NUMBER	DESCRIPTION	SIZE	CODE
639729 ④	Ring Set - Single Cylinder	Standard	10-470-D, E, F, H, L, M, N, S, U, V (627738 piston)
633136A3 ©©	Bearing Set - Crankshaft	Standard	O-470-A-E-J-K-L-M-R-S-U
633136A3MO10©©	Bearing Set - Crankshaft	.010 US on ID	O-470-G-P IO-470-(AII)
642720A1 (S)	Bearing Set - Crankshaft	Standard	0-470-G-F 10-470-(All)
642720A1M010 👀		.010 US on ID	0.470.4.5.48.4.44.5.044
633136A1 (30)		Standard	O-470-A-E-J-K-L-M-R-S-U
633136A1M010 👀	Bearing Set - Crankshaft	.010 US on ID	
630464A5 (SY)	Bearing Set - Crankshaft	Standard	O-470-G-P IO-470-(All except P)
630464A5M010 32	Bearing Set - Crankshaft	.010 US on ID	
630464A6 ©①		Standard	IO-470-P
630464A6M010@@		.010 US on ID	
633136A2 30	Bearing Set - Crankshaft	Standard	O-470-B-M-N
633136A2M010 32		.010 US on ID	
537401A1 SB	Bearing Set - Crankshaft	Standard	O-470-A-C-E-J-K-L-R
537401A1M010 30	Bearing Set - Crankshaft	.010 US on ID	
538879A1 ©®	Bearing Set - Crankshaft	Standard	O-470-B-M-N
538879A1M010 30		.010 US on ID	
627795A1 309		Standard	O-470-G-P 1O-470-(AJI)
627795A1M010 <sup>©®®</sup>	Bearing Set - Crankshaft	.010 US on ID	
626531-1	Enamel - Gold, Engine	1 Quart	All
626531-2	Enamel - Gold, Engine	1 Gallon	All
5350118	Lockwire - 0.040 in dia. steel	1 Lb. Roll	All

This set does not contain intake hoses.

Same as 642107, but includes spirotallic exhaust gasket.

NOTES:
This
Sam
For
For
For
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For
Flar For use with steel barrel cylinders. See Service Bulletin M74-11 for piston and cylinder applications.

For use with chrome cylinders. See Service Bulletin M78-12 for piston and cylinder applications.

This set does not contain connecting rod bearings.

For use with Phase 3 style crankcase and crankshaft. See Service Bulletin M78-9.

Thrust washer type bearings for use with Phase 2 style crankcase & crankshaft. See Service Bulletin M78-9.

Flange type bearings for use with Phase 1 style crankcase & crankshaft. See Service Bulletin M78-9.

For O-470-G engines with modernized crankshafts. See Service Bulletin M64-20.

## SECTION V NUMERICAL PARTS LIST

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401001	01-18	402153	01-12		17.02	
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532200	16-41		11-09	534942	05-21
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534445	05-25	534940	25-01		11-02
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534470	05-01	534941	05-20	EATA53	11-05
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534503	21-01		59-08		11-06
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535737	10-04		55-01		61-20	
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536037	52-02	537432	10-05		45-27	٠.
536038	18-41		11-04		66-11	
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	67-33	628439	60-32		48-16
628178	59-04		62-32		49-07
628198	09-16	628440	62-32		50-07
628245	07-	628441	60-32	629007	43-07
628257	05-02		62-32		44-10
•	06-02	628472	43-01	629008	43-08
628260	18-42		44-01		44-07
	19-42	628473	43-01		44-12
628264	67-39		44-01	629009	43-09
628271	41-30	628474	45-25		44-08

	PART NUMBER	FIG. & INDEX	PART NUMBER	FIG. & INDEX	PART NUMBER	FIG. & INDEX
•	629009	44-13	629505	50-14	630296	56-15
	629010	43-10	629506	50-16	630387	61-14
•		44-09	629518-1H	01-23		63-14
		44-14		01-24	ł	64-14
	629011	43-07		02-24		65-14
		44-15		16-08	630455	68-11
	629076	39-17		17-08	630474	56-27
		40-19		18-07	630519	34-17
	629077	39-18		19-07		35-19
		40-21		51-02	•	36-20
	629104	08-06		52-13	620522	37-13
		09-07		53-51	630533	43-17
	629111	75-01		54-07	630591	18-10
	629117	18-14	000545 011	73-	630626	19-10 52-41
	000100	19-14	629518-3H	01-26 01-27	630627	52-41 55-27
	629138	52-30		02-26	030027	56-14
		54-20	629518-4H	23-16	630628	52-41
		55-02 55-04	629595	55-13	000020	56-14
		56-02	029393	56-13	630686	34-04
		56-02	629597	55-13	630693-10.44	03-16
		57-02	629599	54-02	630826	08-14
	629163	54-13	629601	54-06		09-15
	629176	32-01	629675	07-09	630863	41-12
	629202	05-09	629703-2	74-	630886	09-01
	010602	06-09	629703-2A4	65-12	630927	09-01
	629267	71-15	629825	35-14	630932	09-01
	629324A1	68-10	629837	42-28	630977	09-01
	629325	52-30		44-37	630985	37-03
		54-19	629847	01-31	630988	37-10
		55-03	629848	09-13	630989	37-05
		56-03	629871	69-01	631000	37-04
		57-03	629882	09-01	631094	37-02
	629326	75-02	629885	07-01	631111	37-01
	629329	69-01	629887	02-01	631200	37-06
	629330	65-17	629904-2A1	66-14	631237	41-01
	629338	65-22	630039	35-20	631252	43-01 31-20
	629338A1	65-	630065 630069A1	70- 66-13	031292	32-15
	629351	75-01	630069AT	68-	631261	31-01
	629353 629354	56-29 5 <del>6</del> -30	630074A1	66-	651201	32-01
	629364	65-15	630089	71-15	631266-1	05-50
	629364A1	65-	, 630093	41-31	337230	06-47
	629397A1	65-11	, 000000	43-34	631275-1	06-48
	02000771	68-	630119	74-	631277	42-06
	629399A9	65-	630124	68-01	631330	72-04
	629417	35-04	630184	72-06	63135 <b>1</b>	73-
		36-04	630261-35	08-05	631351-10A3	66-30
	629418	69-02		09-05		72-
	629494	44-34	630261-36	08-05	631427	73-
	629495	44-33	630261-37	08-05	631427-3A1	72-
	629496	44-32		09-05	631427-3A2	63-26
	629498	44-31	630261-39	08-05	631427A1	72-
_	629502	50-10	630261-40	08-05	631427A11	72-
	629504	50-13		09-05	631427A15	60-26

			[ 540 e	PART	FIG. &	1
PART	FIG. &	PART	FIG. & INDEX	NUMBER	INDEX	
NUMBER	INDEX	NUMBER				,
631427A15	62-26	631818	69-02	632556	68-05	
031427/10	66-30	631819	68-01	632557 60-		
	67-28	631845	10-03		61-17	_
631427A16	64-26		11-04		62-17	
631427A17	61-26	631867	01-19		63-17	
031427617	65.28		02-20		64-17	
631427A19	62-26	631 <b>9</b> 15	06-45		66-19	
631427A2	72·	631 <b>9</b> 27	01-30		67-17	
631427A3	72-	631928	05-47	632557-1	65-17	
631478	27-28		06-44	632558	60-15	
031470	29-28	631972	52-24		61-15	
631481	13-01		53-15		62-15	
631496	16-06		55-08		63-15	
031490	17-06		56-08		64-15	
	18-08		57-07		6 <del>6</del> -17	
	19-08	631995	27-30		67-15	
COLEAN	18-42	JQ , JQ J	29-30	632558A1	60-	
631544	19-42	632017	70-		61-	
004000	27-27	002011	71-12		62∙	
631638	29-27	632077	40-13		63-	
004050	28-08	632085	28-10		64-	
631650	•	032003	30-06		6 <del>6</del> -	
	30-05	632105	42.27		67-	
631653	27-10	032103	44-38	632563	27-05	
	29-10	632106	44-35		29.05	
631658	73-	632149	05-51	632563A16	27-	
631683	59-11		05-48		29-	
	60-03	632151 632280	55-26	632563A17	29.	
	61-03		37-07	632563A2	27-	•
	62-03	632312 632319	09-12	632563A20	29-	
	63-03	632323	52:28	632563A29	29-	
	64-03	632330	39-13	632563A31	27-	
	65-03	632357	05-04	632563A4	27-	
	66-03	632372	22-06	632563A7	27-	
	67-03	632443-4	09-19		29-	
631684	59-09	632478	27-09	632653A1	39-12	
	60-01	632553-2	75-02	632762	27-16	
	61-01	632554-1	68-25		29-16	
	62-01	032334-3	74.	632816	59-02	
	63-01	632554-2	68-06	632837	17-34	
	64-01	032004-2	74.	632859	61-22	
	65-01	632555-23	68-05	002000	63-22	
	66-01		74-		64-22	
	67-01	632555-24	68-24	632859A1	61-	
631685	66-04	632555-25	74-	002000717	64-	
631720	73-	632555-27	74-	632885-2A1	66-	
631739	44-36	632555-28	68-24	632904-2	74-	
631764	60-09	632555-31	68-24	632916-2	74-	
	61-09	632555-32	68-24	632916-2A2	66-14	
	62-09	632555-33	68-05	632932	13-01	
	63-09	632555-44	74.	633009	44-30	
	64-09	632555-46	68-24	633012	50-11	
	65-09	632555-47	· ·	633027	52·18	
	66-09	632555-48	68-24	633062	37-11	_
	67-09	632555-5	74-	055002	37-11	_

	PART NUMBER	FIG. & INDEX	PART NUMBER	FIG. & INDEX	PART NUMBER	FIG. & INDEX
ŧ	633096	50-12	633589	42-39	635360	44-40
	633099	50-15	00000	47-11	635363	44-39
•	633113	41-13	633590	42-41	635623	08-06
	000110	46-		47-13		09-06
	633114	41-14	633591	42-43	635993	24-01
		46		47-15	636675	47-02
	633136	08-12	633592	42-42		48-02
	633143A1	66-13		47-14		48-12
		68-	633593	42-38		49-02
	633189	08-08		47-10		49-10
		09-09	633845	31-28	000070	50-02
	633195	66-24		32-23	636676	47-03 48-03
	633198	66-25	633925	42-37		49-03
	633219	08-01	633926	42-36		49-03 49-11
	633225	08-01	633927	42-32		50-03
	633227	08-01	634150	27-09 29-09	636677	47-04
	633246	09-01	024105	74.	030077	48-04
	633254	08-09	634195 634505	16-01		49-04
	cacare	09-08	634505	17-01		49-12
	633256	08-01 08-01		18-01		50-04
	633258	09-01		19-01	636678	47-05
	633311	42-07	634511	03-27		48-05
	633343	74.	00.0	04-29		48-14
	633412	25-07	634592	31-01		49-05
	633435	57-15	634673	37-04		49-13
	633579	42-10	634675	42-06		50-05
-		42-11	•	43-17	636679	50-06
		42-12		44-16	636687	42-31
		42-13	634805	55-33	636692	42-26
		42-14	634807	55-34	636922	42-29 44-17
		42-15	635050A1	31-15	636954 637286	70-
		42-16	00505044	32-10	037200	70- 71-13
		46-	635050A4	31. 32.	637409	50-09
	633579	47-09	635134	05-36	637409-48	44-18
	633580	42-08 42-09	035134	06-30	007.400 10	44-19
		42-09	635158-13.00	67-30		44-20
		42-18	635158-15.00	66-31		44-21
		42-19	033.30 .5.00	67-29		44-22
		46-	635158-16.00	61-28		44-23
		47.09		64-28		44-25
	633581	42-25		66-31		44-28
	633582	42-24	635158-17.00	63-28		44-29
	633583	42-23		66-32	637579	08-11
		42-40		67-30		09-11
		47-12	635158-18.00	65-31	637781	18-20 19-20
	633584	42-22	005450 00 00	66-32	627026	19-20 16-14
	633585	42-21	635158-32.00	65-32	637,836	17-14
		42-45	COE1EO 40 00	67-31 66-33		18-17
	000000	47-17	635158-40.00	67-31		19-17
	633586	42·20	635158-44.00	61-30	637847	32-01
		42-44 47-16	635158-8.50	61.29	638152	61-32
		4/-10	055150-0.50	· · - ·		

				PART	FIG. &
PART	FIG. &	PART	FIG. & INDEX	NUMBER	INDEX
NUMBER	INDEX	NUMBER	INDEX	- HOWBEN	1
020152	61-32	639567	14-02	641250	08-15
638153	61-32	639568	12-03		09-22
638154	70-	000000	13-03	641306	08-16
000454 4044	62-08		14-03		09-23
638154-12A1	66-08	639573	18-28	641361	05-27
638154-3A2	60-08	039373	19-28		06-22
638154-9A1		639629	18-23	641368	31-17
	62-08	033023	18-26	• • • • •	32-12
638154-9A12	63-08		19-23	641643	55-30
638154-9A2	67-08		19-26	641651	05-14
638154-9A20	66-08	639660-13	51-09	3,134	06-14
638154-9A4	64-08	039000-13	52-27	641682	18-25
638154-9A6	65-08		52-29	011002	19-25
638154-9A8	61.08		53-12	641701	65-29
638156	71-08		53-12	0-11701	66-36
638172	39-20		54-12	641860	52-18
	40-23		54-16	641862	10-11
638440	60-32		55-11	041002	11-11
639152	24-01		56-11	641905	08-01
639185A2	66-		57·10	641930-9.81	03-07
639193	08-04	000000	13-04	041000 0.01	04-07
	09-04	639663	61-11	641931-10.75	03-08
639195	08.03	639766A1	68-	0.71001 10.70	04-08
	09-03	000700	12-04	641952A1	18-12
639196	09-03	639768	13-04	0-11002/11	19-12
639197	08-03		14-04	641960	18-09
639234A3	62-		15-04	041000	19-09
639246A3	60-	000007	05-15	641962	18-03
639247A3	62-	639997	06-15	641962A1	18-
639248A3	60-	040007	66-09	642003-2	59-01
639255A4	63-	640027	61-	642064	72-01
639257A5	67-	640107A3 640120A1	61-	642068	18-03
639258A3	67-	• • • • • • • • • • • • • • • • • • • •	12-02	042005	19-03
639260A3	64-	640299	13-02	642068A1	18-
639261A3	66-		14-02	642068A3	18-
639264A2	65-	040200	12-04	0420007.0	19-
639266	67-09	640300	14.04	642068CP	18-03
639268	71.27		15-04	0-12-000-0-	19-03
639292	20-05	040001	12.02	642068CP-A1	18-
639304	05-25	640301	13-02		19-
	06-20		15-02	642086	13-04
639305	24-14	040202	13-05	642159A1	01-01
639418-1	01-20	640302	14-05	642166A1	02-01
	02-21		15-05	642167A1	02-01
639418-2	01-19	640200	28-26	642168A1	02-01
	02-20	640380	30-23	642169A1	02-01
639437	68-10		39-01	642170A1	02-01
639479	68-16		40-01	642172A1	02-01
639565	13-02	640518	13-01	642173A1	02-01
***-**	15-02	640620-4	05-35	642177A1	02-01
639566	12-02	•	06-29	642178A1	01-01
	13-03	640620-5	05-35	J.27.07.11	02-01
	15-03	640620-8	06-29	642179A1	02-01
639567	12-02	641139	52-18	642182A1	01-01
	13-02	541138	32-10		_ •

PART NUMBER	FIG. & INDEX	PART NUMBER	FIG. & INDEX	PART NUMBER	FIG. & INDEX
642183A1	01-01	642283	65-15	642720	08-13
642189A1	02-01	642283A1	65-		09-14
	01-01	642335	27-11	642914	05-10
642193A1	01-01	042000	29-11		06-10
642194A1	27-13	642336	27.08	647409-48	44-24
64224		042550	29-08		44-26
	29-13	642515	59-03		44-27
642249	09-21		28-12	6577-2	63-62
642250	03-03 04-03	642714	30-08	0077 #	
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# SECTION VI CUSTOMER SPECIFICATIONS

This section contains a parts listing of customer specifications for the basic engines of each model. There is a Figure and Index column which refers to an illustrated view of the parts or assembly differences. Figures 76 thru 82 are located on pages 6-25 thru 6-29 in the rear of this section. The other Figures referenced in this section are located throughout Section II.

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
O-470-G7	639250A3	Fuel Injection Assembly, Complete	1	*** 3
0-470-07	638154-9A1	Fuel Pump Assembly, Complete	1	60-8
	625487A1	. Throttle and Control Assembly, Complete	1	60-
	631427A15	. Manifold Valve	1	60-26
O-470-J6	537487	Regulator, Voltage, 12 Volt, 35 Amp	1	76-1
O-470-J8	627272	Generator, 12 Volt, 50 Amp	1	33-4
0.420.111	642162A1 <sup>(</sup>	D Crankcase Studding Assembly	1	* * *
O-470-J11	<b>-</b>	. Stud, 1/4 x 1-5/16 Inch Long	5	1-10
	401808 626189	Oil Cooler Assembly & Associated Parts (See O-470-B)		24-
	0.5050	Screw, 1/4 x 1.00 Inch Long	12	24-2
	24873	Bracket, O/C (Rocker Cov. No. 5 Cyl.)	1	***
	632823	Bracket, Oil Cooler	1	***
	632824	Bolt, 1/4 - 28	1	***
	629806	Washer	1	***
	536779	Nut	1	***
	2437	Generator, 12 Volt, 50 Amp	1	33-4
	627272	Generator, 12 voit, 50 Amp		
0.470.40	537298A1	Rod Assembly, Oil Gauge	1	5-45
O-470-K3	AN123860	. O-Ring	1	5-46
	627322	Regulator, Voltage, 12 Volt, 35 Amp	1	76-1
		Bracket, Engine Mounting	4	5-1
O-470-K5	534470	Rod Assembly, Oil Gauge	1	5.45 🕳
	626295A1	O-Ring	1	5-46
	AN123860	Carburetor, Model MA4-5	1	52-18
	641139	Fuel Pump Assy. & Associated Parts		77-
	535262	Puel Pump Assy, & Associated 1 at 5	1	38-1
	536486	Priming System Assembly	1	76- <b>1</b>
	627322	Regulator, Voltage, 12 Volt, 35 Amp :		
O-470-K9	537298A1	Rod Assembly, Oil Gauge	1	5-45
0.470.03	AN123860	. O-Ring	1	5-46
	AIV125000			•
O-470-K14	401801	Stud, 1/4 x 1-1/4 Inch Long	2	78-1
0.470-101-4	627392	Oil Cooler Assy. & Associated Parts		22-
0.470 1/45	401801	Stud, 1/4 x 1-1/4 Inch Long	2	78-1
O-470-K15		Rod Assembly, Oil Gauge	1	5-45
	537298A1	O-Ring	1	5.46
	AN123860	. O-ning		į
O-470-K17	642162A1	① Crank case Studding Assembly	1	***
0 770 10 17	401808	. Stud, 1/4 x 1-5/16 Inch Long	5	1-10
	537298A1	Rod Assembly, Oil Gauge	1	5-45
	AN123860	. O-Ring	1	5-46
	627272	Generator, 12 Volt, 50 Amp	1	33-4
0.470.10	E00700 A 4	Rod Assembly, Oil Gauge	1	5-45
O-470-L2	539792A1 AN123860	O-Ring	1	5-46
6.0	88A OCH 1970			

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
O-470-L9	627272	Generator, 12 Volt, 50 Amp	1	33-4
)-470-L10	627272	Generator, 12 Volt, 50 Amp	1	33-4
J-470-E10	632563A7	Oil Pump Housing & Associated Parts		27-
	628472	Magneto Assembly, Left Hand	1	44-1
	628473	Magneto Assembly, Right Hand	1	44-1
O-470-L12	632563A7	Oil Pump Housing & Associated Parts(See O-470-R)		27-
	629176	Starter, 12 Volt	1	32-1
	628472	Magneto Assembly, Left Hand	1	44-1
	628473	Magneto Assembly, Right Hand	1	44-1
O-470-L13	632563A7	Oil Pump Housing & Associated Parts		27-
	629176	Starter, 12 Volt	1	32-1
	627272	Generator, 12 Volt, 50 Amp	1	33-4
	628472	Magneto Assembly, Left Hand	1	44-1
	628473	Magneto Assembly, Right Hand	1	44-1
O-470-L16	642162A1 (	D Crankcase Studding Assembly	1	***
	401808	. Stud, 1/4 x 1-5/16 Inch Long	5	1-10
	539792A1	Rod Assembly, Oil Gauge	1	5-45
	AN123860	. O-Ring	1	5-46
	626189	Oil Cooler Assy. & Associated Parts (See O-470-B)		24-
	24835	Screw, 1/4 x 7/8 Inch Long	12	24-2
	632823	Bracket, O/C (Rocker Cov. No. 5 Cyl.)	1	* * *
	632824	Bracket, Oil Cooler	1	***
	629806	Bolt, 1/4 - 20	1	***
	536779	Washer	1	***
	2437	Nut	1	* * *
	627272	Generator, 12 Volt, 50 Amp	1	33-4
O-470-M1	629518-1H	Plug, Pipe (Between Cyl. 1 & 3)	1	* * *
	637261A1	Rod Assembly, Oil Gauge	1	5-45
	AN123860 627274	O-Ring	1	5-46
	02/2/4	Associated Parts		79-
	627320	Regulator, Voltage, 24 Volt, 25 Amp	1	76-1
O-470-M8	637261A1	Rod Assembly, Oil Gauge	1	5-45
	AN 123860	. O-Ring	1	5-46
O-470-M10	637261A1	Rod Assembly, Oil Gauge	1	5-45
O-470-WHU	AN123860	O-Ring	1	5-45 5-46
	627274	Generator, 24 Volt, 25 Amp and	,	
•		Associated Parts	_	79-
	627320	Regulator, Voltage, 24 Volt, 25 Amp	1	7 <b>6</b> - <b>1</b>

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
O-470-M11	637261A1	Rod Assembly, Oil Gauge	1	5-45
0.470-18111	AN123860	O.Ring	1	5-46
	627320	Regulator, Voltage, 24 Volt, 25 Amp	1	76-1
		Rod Assembly, Oil Gauge	1	5-45
O-470-M12	637261A1 AN123860	O-Ring	1	5-46
	04040041	Orankcase Studding Assembly	1	* * *
O-470-M22	•	Stud, 5/16 x 1 Inch Long	1	1-3
	402042	Bracket, Engine Mounting	3	5-3
	539914	Bracket, Engine Woodking	1	6.3
	628008	Bracket, Engine Mounting	1	32-1
	628319 629417	Sheave, Starter Drive		
		Associated Parts (See IO-470-R)	1	36-
	632563A1	Adapter Assembly, Mag	1	39-12
	627450	Plug, Spark	12	43-17
	00700444	Rod Assembly, Oil Gauge	1	5- <b>45</b>
O-470-M23	637261A1	O-Ring	1	5-46
	AN 123860 627450	Plug, Spark	12	43-17
			1	1-32
O-470-M26	626334	Plug, Special	1	1-33
	625966	Gasket	1	1-34
	AN123866	Seal, O-Ring	1	5-45
	637261A1	Rod Assembly, Oil Gauge	1	5-45 5-46
	AN123860	O-Ring	1	5-40
	639152	Cooler Assembly, Oil and		
		Associated Parts (See O-470-M)	1	24-
	639305	Valve, Oil Temperature Control	1	24-14
	627496	. Gasket	1	24-15
	632653A1	Adapter Assembly, Mag	1	39-12
O-470-R1	627272	Generator, 12 Volt, 50 Amp	1	33-4
0-470-N I	629176	Starter, 12 Volt	1	32-1
	=	Magneto, Left Hand	1	44-1
	628472 628473	Magneto, Right Hand	1	44-1
	000070	Connector 13 Volt ED Amn	1	33-4
O-470-R2	627272	Generator, 12 Volt, 50 Amp	1	32-1
	629176	Starter, 12 Volt	•	
O-470-R3	627272	Generator, 12 Volt, 50 Amp	1	33-4
000	636954	Harness Assembly	1	44-17
	635150	Spark Plug	12	43-17
O 470 B4	627272	Generator, 12 Volt, 50 Amp	1	33-4
O-470-R4	629176	Starter, 12 Volt	1	32-1
			1	33-4
O-470-R5	627272	Generator, 12 Volt, 50 Amp	1	
	628472	Magneto, Left Hand	1	44-1
	628473	Magneto, Right Hand	1	44-1

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
O-470-R6	642164A1 (	D Crankcase Studding Assembly	1	* * *
	401808	. Stud, 1/4 x 1-5/16 Inch Long	5	1-10
	631927	. Guide, Oil Gauge Rod	1	1-30
	626189	Oil Cooler & Associated Parts		
		(See O-470-B)	1	24-
	24835	Screw, 1/4 x 7/8 Inch Long	12	24-2
	626823	Bracket, O/C (Rocker Cov. No. 5 Cyl.)	1	* * *
	626824	Bracket, Oil Cooler	1	* * *
	629806	Bolt, 1/4 - 28	1	***
	536779	Washer	1	* * *
	2437	Nut	1	* * *
	627272	Generator, 12 Volt, 50 Amp	Ţ	33-2
	636954	Harness Assembly	1	44-17
	635150	Spark Plug	12	* * *
O-470-R9	629176	Starter, 12 Volt	1	32-1
0 4/0 110	636954	Harness Assembly	1	44-17
	631277	Plug, Spark	12	42-6
	001271	<u>.                                    </u>		
O-470-R11	631277	Plug, Spark	12	42-6
O-470-R13	642161A1	D Crankcase Studding Assembly	1	* * *
	401806	. Stud, 1/4 x 1-1/4 Inch Long	3	1-10
	626334	Plug, Special	1	1-32
	625966	Gasket	1	1-33
	AN123866	Seal, O-Ring	1	1-34
	639151	Oil Cooler & Associated Parts		8 <b>0</b> -
	627272	Generator, 12 Volt, 50 Amp	1	33-4
	636954	Harness Assembly, Complete	1	44-17
	631277	Plug, Spark	12	42-6
O-470-R14	642162A1	Crankcase Studding Assembly	1	***
	401801	. Stud, 1/4 x 1-5/16 Inch Long	5	1-10
	626189	Oil Cooler & Associated Parts		
		(See O-470-B)		24-
	24835	Screw, 1/4 x 7/8 Inch Long	12	24-2
	626823	Bracket, O/C (Rocker Cov. No. 5 Cyl.)	1	* * *
	626824	Bracket, Oil Cooler	1	* * *
	629806	Bolt, 1/4 - 28	1	* * *
	536779	Washer	1	***
	2437	Nut	1	***
	627272	Generator, 12 Volt, 50 Amp	1	33-4
	628472	Magneto Assembly, Left Hand	1	43-1
	628473	Magneto Assembly, Right Hand	1	43-1
	633113	Harness Assembly, Left Hand	1	41-13
	633114	Harness Assembly, Right Hand	1	41-14
	621277	Plug, Spark	12	42-6

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
O-470-R15	539518	Bracket, Engine Mounting	3	5-2
0 0 0	628257	Bracket, Engine Mounting (Cyl. No. 2)	1	5-2
	632357	Spacer, Mounting Bracket	1	5-4
	636954	Harness Assembly	1	44-17
	631277	Plug, Spark	1	42-6
	536038	Nut, Exhaust	24	18-41
O-470-R17	642161A1 C	Crankcase Studding Assembly	1	* * *
0 470 1177	401806	. Stud, 1/4 x 1-1/4 Inch Long	3	1-10
	626334	Plug, Special	1	1-32
	625966	Gasket	1	1-33
	AN123866	Seal, O-Ring	1	1-34
	639151	Oil Cooler & Associated Parts		80-
	627272	Generator, 12 Volt, 50 Amp	1	33-4
	636954	Harness Assembly, Complete	1	44-17
	631277	Plug, Spark	12	42-6
	627321	Regulator, Voltage, 12 Volt, 50 Amp	1	77-1
O-470-R20	625765	Magneto, Assembly	2	42-1
U-470-N20	633311	Harness Assembly	1	42-7
	635 150	Spark Plug	12	***
	536038	Nut, Exhaust Flange	24	18-41
O-470-R23	627433	Bolt	5	3-12
0-470-1125	2473	Washer, Plain	5	3-13
	628257	Bracket, Eng. Mounting, Cyl. No. 2	1	5-2
	632357	Spacer	1	5-4
	625765	Magneto Assembly	2	42-1
	633311	Harness Assembly	1	42-7
O-470-R25	627433	Bolt	5	3-12
0 1/0 1120	2473	Washer, Plain	5	3-13
	630693-10.44		1	3-16
	628257	Bracket, Eng. Mounting, Cyl. No. 2	1	5- <b>2</b>
	628357	Spacer	1	5-4
	625765	Magneto Assembly	2.	42-1
	633311	Harness Assembly	1	42-7
	631277	Plug, Spark	12	42-6
O-470-R32	642163A1 (	Crankcase Studding Assembly	1	* * *
	401814	. Stud, 5/16 x 1-7/8 Inch Long	4	1-17
	627433	Bolt	5	3-12
	2473	Washer, Plain	5	3-13
	628257	Bracket, Eng. Mounting, Cyl. No. 2	1	5.2
	632357	Spacer	1	5-4
	535662	Gear, Cam Cluster	1	10-6
	535666	Screw, Cam-to-Gear	4	10-7
	535262	Pump Assembly, Fuel	1	77.

	MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
	. J-470-R32	625765	Magneto Assembly	2	42-1
		633311	Harness Assembly	1	42-7
		631277	Plug, Spark	12	42-6
	O-470-R35	642161A1 C	Crankcase Studding Assembly	1	***
		401806	. Stud, 1/4 x 1-1/4 Inch Long	3	1-10
		626334	Plug, Special	1	1-32
		625966	Gasket	1	1-33
		AN123866	Seal, O-Ring	1	1-34
		627433	Bolt	5	3-12
		2473	Washer, Plain	5	3-13
		630693-10.44		1	3-16
		628257	Bracket, Eng. Mounting (Cyl. No. 2)	_1	5-2
		632357	Spacer	1	5-4
		639171	Cooler Assembly, Oil and		
			Associated Parts		81-
		625765	Magneto Assembly	2	42-1
		633311	Harness Assembly	1	42-7
		631277	Plug, Spark	1	42-6
	O-470-R37	630693-10.44		1	3-16
		634592	Starter, 12 Volt	1	31-1
		627377	Sheave, Generator Drive	1	33-3
_		627274	Generator, 24 Volt, 25 Amp	1	33-4
	•	536213	Spacer	1	33-2
		539580	Bracket, Generator Support	1	* * *
		538283	Bracket, Generator Support	1	* * *
		538346	Arm, Generator Belt, Adjusting	1	***
		636954	Harness Assembly	1	44-17
		627320	Regulator	1	77-1
	O-470-S2		Crankcase Studding Assembly	1	* * *
		401852	. Stud, 1/4 x 1-13/32 Inch Long	5	1-10
		626334	Plug, Special	1	1-32
		625966	Gasket	1	1.33
		AN123866	Seal, O-Ring	1	1-34
		639171	Cooler Assembly, Oil & Assoc. Parts		81-
!	O-470-U2		Crankcase Studding Assembly	1	***
		401852	. Stud, 1/4 x 1-13/32 Inch Long	5	1-10
		626334	Plug, Special	1	1-32
		625966	Gasket	1	1-33
		AN123866	Seal, O-Ring	1	1-34
		639171	Cooler Assembly Oil and		
			Associated Parts		81-
	7-470-U3	642266	Bracket, Eng. Mounting, Cyl. No. 2	1	***
_		637847	Starter, 24 Volts	1	32-1
				•	~- ·

MODEL SPEC	PART NUMBER	12345	DESCRIPTION	QTY	FIGURE INDEX
O-470-U4	64219541	Orankcase Stu	idding Assembly	1	* * *
J-470-04	401852		1-13/32 Inch Long	5	1-10
	626334	,		1	1.32
	625966	•		1	1-33
	AN123866			1	1-34
	642266 639171	Bracket, Eng. Cooler Assem	Mounting, Cyl. No. 2	1	***
	039171		rts		81-
	637847		olt	1	32-1

## 10-470 SPECIFICATIONS

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
IO-470-C7	628481	Switch, Magnetic	1	82-
10-470-D1	641701 628295	Bracket, Fuel Discharge Tubes, 1-3-5 Side Bracket, Fuel Discharge Tubes, 2-4-6 Side	1	66-36 66-37
IO-470-D2	632563A7 628482 627272 538517 639257A6 638154-9A2 627315A8 631427A15	Housing Assembly, Oil Pump  Starter, 12 Volt	1 1 1 1 1 1 1	29- 32-1 34-4 *** 67-8 *** 67-28
IO-470-D12	639152 641701 628295	Oil Cooler and Associated Parts (see IO-470-U)  Bracket, Fuel Discharge Tubes, 1-3-5 Side  Bracket, Fuel Discharge Tubes, 2-4-6 Side	1 1	24- 66-36 66-37
IO-470-D15	639152 628472 628473 636954 641701 6282 <del>9</del> 5	Oil Cooler and Associated Parts (see IO-470-U)  Magneto Assembly, L.H.  Magneto Assembly, R.H.  Harness Assembly  Bracket, Fuel Discharge Tubes, 1-3-5 Side  Bracket, Fuel Discharge Tubes, 2-4-6 Side	1 1 1 1 1	24- 44-1 44-1 44-17 66-36 66-37

	MODEL SPEC	PART NUMBER	12345 DESCRIPTION	ΩΤΥ	FIGURE INDEX
`	IO-470-D19	626334	Plug, Special	1	2-30
	10 .70 5.0	625966	Gasket	1	2-31
		AN123866	Seal, O-Ring	1	2-32
		539914	Bracket, Engine Mounting	3	6-3
		628008	Bracket, Engine Mounting	1	6-3
		628319	Sheave, Generator Drive	1	32-40
		629417	Generator, 24 Volt, 50 Amp and		
		020111	Associated Parts (See IO-470-U)		3 <b>6</b> -
		639152	Oil Cooler and Associated Parts (See 10-470-U)		24.
		628472	Magneto Assembly, Left Hand	1	44-1
		628473	Magneto Assembly, Right Hand	1	44-1
		636954	Harness Assembly	1	44-17
		639262A3	Fuel Injection Assembly, Complete	1	***
		638154-9A20	-	1	66-8
		627315A1	. Throttle and Control Assembly	1	67-
		631427A15	. Manifold Valve	1	66-30
		628260	Gasket, Exhaust Flange	6	19-42
		020200	dasket, Exhaust hange	•	
	IO-470-D27	539914	Bracket, Engine Mounting	3	6-2
	10-470-027		Bracket, Engine Mounting	1	6-3
		628008	Oil Cooler and Associated Parts (See IO-470-U)	-	24-
		639152	Sheave, Starter Adapter	1	32-40
		628319	Generator, 24 Volt, 50 Amp and	ŕ	•
		629417	Associated Parts (See IO-470-U)		36-
		C00470	Magneto Assembly, L.H.	1	44-1
	-	628472 628473	Magneto Assembly, R.H.	1	44-1
			Harness Assembly	1	44-17
		636954	Bracket, Fuel Discharge Tubes, 1-3-5 Side	1	66-36
		641701	Bracket, Fuel Discharge Tubes, 2-4-6 Side	1	66-37
		628295	Fuel Injection Assembly, Complete	1	***
		639263A3		1	66-8
		638154-9A20		1	***
		630074A2	. Throttle and Control Assembly	1	66-30
		631427A15	. Manifold Valve Assembly	'	00-50
	10 470 020	606004	Plug, Special	1	2-30
	10-470-D30	626334	Gasket	1	2-31
		625966	Seal, O-Ring	i	2-31
:		AN123866	Bracket, Engine Mounting	3	6-3
		539914	Bracket, Engine Mounting	1	6-3
		628008	Sheave, Generator Drive	1	32-40
		628319	Courses 24 Volt 50 Amp and	•	<b>02</b> 10
		629417	Generator, 24 Volt, 50 Amp and Associated Parts (See IO-470-U)		36-
		639152	Oil Cooler and Associated Parts (See IO-470-U)		24-
		639262A3	Fuel Injection Assembly, Complete	1	***
		638154-9A20	. Fuel Pump Assembly, Complete	1	66-8
			. Throttle and Control Assembly	1	67-
		627315A1	. Manifold Valve	1	66-30
		631427A15	Gasket, Exhaust Flange	6	19-42
_	_	628260	Gasker, Exhibust Frange	•	

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
IO-470-D42	626334	Plug, Special	1	2-30
	625966	Gasket	1	2-31
	AN123866	Seal, O-Ring	1	2-32
	539766	Rod Assembly, Oil Gauge	1	6-42
	AN123860	, O-Ring	1	6-43
	539910	Starter, 12 Volt	1	***
	534316	Gasket, Starter-to-Adapter	1	31-5
	627272	Generator, 12 Volt, 50 Amp	1	34-4
	627690	Bracket, Generator Mounting	1	34-19
	639152	Oil Cooler and Associated Parts (See IO-470-U)		24-
	626745	Tube Assembly, Elbow, 1-3-5 Side	1	***
		Tube, Intake Manifold, Cylinder 1-5 & 6	3	53-2
	537873	Tube, Intake Manifold, Cylinder No. 2	1	53-4
	537874	Tube, Intake Manifold, Cylinder Nos. 3 & 4	2	53-3
	537875	Tube, Intake Manifold, Cylinder Nos. 3 & 4	2	55 <b>5</b>
10-470-D44	626334	Plug, Special	1	2-30
	625966	Gasket	1	2-31
	AN123866	Seal, O-Ring	1	2-32
	631481	Piston, 8:1 Compression Ratio	6	13-1
	639565	Ring, Piston, Top Groove	6	13-2
	639566	Ring, Piston, 2nd Groove	6	13-3
	639663	Ring, Piston, Third Groove	6	13-4
	627480	Ring, Piston, Fourth Groove	6	13-5
	639152	Cooler Assembly, Oil and		×~
	001/01	Associated Parts (See IO-470-U)	1	24.
	628472	Magneto, Left Hand	1	44-1
	628473	Magneto, Right Hand	1	44-1
	636954	Harness Assembly	1	44-17
	628295	Bracket, Fuel Lines, 2-4-6 Side	1	65-30
	641701	Bracket, Fuel Lines, 1-3-5 Side	1	65-2 <b>9</b>
	628260	Gasket, Exhaust Flange	6	19-42
10 470 050	000004	Plug, Special	1	2-30
10-470 D50	626334		1	2-31
	625966	Gasket	1	2-32
	AN123866	Seal, O-Ring	3	6-3
	539914	Bracket, Engine Mounting	1	6-3
	628008	Bracket, Engine Mounting	1	32-40
	628319	Sheave, Generator Drive		JZ***V
	629417	Generator, 24 Volt, 50 Amp and Associated Parts (See IO-470-U)		36-
	639152	Cooler Assembly, Oil and		24-
		Associated Parts (See IO-470-U)	4	24- 44-1
	628472	Magneto Assembly, Left Hand	1	× 5.
	628473	Magneto Assembly, Right Hand	1	44-1
	636954	Harness Assembly	7	44-17
	639263A3	Fuel Injection Assembly, Complete	1	* * *
	638154-9A20		1	66-8
	630074A3	. Throttle and Control Assy	1	***
	631427A15	. Manifold Valve Assembly	1	66-30
	628260	Gasket, Exhaust Flange	1	19-42 🚤

	MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
`	IO-470-D52	639152	Oil Cooler and Associated Parts (See IO-470-U)		24-
		628472	Magneto Assembly, L.H.	1	44-1
		628473	Magneto Assembly, R.H.	1	44.1
		636954	Harness Assembly	1	44-17
			Bracket, Fuel Discharge Tubes, 1-3-5 Side	1	66-36
		641701	Bracket, Fuel Discharge Tubes, 2-4-6 Side	1	66-37
		628295	Bracket, Fuer Discharge 1 does, 2 1 0 olds 1.1.1111.		
	IO-470-E6	534445	Valve, Oil Temperature Control	1	* * *
		534316	Gasket, Starter-to-Adapter	1	31.5
		627272	Generator, 12 Volt, 50 Amp	1	34-4
		632563A7	Housing Assembly, Oil Pump and		
			Associated Parts (See IO-470-F)	1	29-
		628472	Magneto Assembly, Left Hand	1	44-1
		628473	Magneto Assembly, Right Hand	1	44-1
		636954	Harness Assembly	1	44-17
		641701	Bracket, Fuel Line, 1-3-5 Side	1	65-29
		628295	Bracket, Fuel Line, 2-4-6 Side	1	65-30
	10 470 50	F04446	Valve, Oil Temperature Control	1	***
	IO-470-E8	534445	Starter, 12 Volt,	1	* * *
		539910	Gasket, Starter-to-Adapter	1	31-5
		534316		•	0.0
		632563A7	Housing Assembly, Oil Pump and Associated Parts (See 10-470-F)		29-
		641701	Bracket, Fuel Line, 1-3-5 Side		65-29
_		641701 628295	Bracket, Fuel Line, 2-4-6 Side		65-30
					***
	IO-470-E13	534445	Valve, Oil Temperature Control	1	***
		539910	Starter, 12 Volt	1	
		534316	Gasket, Starter-to-Adapter	1	31.5
		627272 632563A7	Generator, 12 Volt, 50 Amp Housing Assembly, Oil Pump and	1	34-4
		<b>~</b>	Associated Parts (See IO-470-F)		29-
		641701	Bracket, Fuel Line, 1-3-5 Side	1	65-29
		628295	Bracket, Fuel Line, 2-4-6 Side	1	65-30
	IO-470-F1	539374	Washer (CC-to-CC at O-Ring)		4-15
;	10-470-11	539518	Bracket, Engine Mounting	4	6-2
		632965A1	Rod Assembly, Oil Gauge	1	6-42
		AN123860	. O-Ring	1	6-43
		539910	Starter, 12 Volt	1	***
		F00540	D. A. C. Carlos Manualina	4	6-2
	10-470-F3	539518	Bracket, Engine Mounting	1	6-42
		629409	Rod, Oil Gauge	1	6-43
		AN123860	O-Ring Oil Cooler and Associated Parts (See IO-470-M)	•	24-
		626189	Oil Cooler and Associated Parts (See 10-470-Wil	1	* * *
		632823	Bracket, O/C (Secure to Rocker Cover)	1	* * *
		632824	Bracket, Oil Cooler	1	***
_		629806	Bolt, Special, 1/4-28	1	* * *
		536779	Washer	1	* * *
		2437	Nut	•	

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX	
10-470-F3	628472	Magneto Assembly, L.H.	1	44-1	1
(Continued)	628473	Magneto Assembly, R.H.	1	44-1	
(00:1011000)	634675	Spark Plug	12	44-16	
	636954	Harness Assembly	1	44-17	
	641701	Bracket, Fuel Discharge Tubes, 1-3-5 Side	1	66-36	
	628295	Bracket, Fuel Discharge Tubes, 2-4-6 Side	1	66-37	
	640106A11	Fuel Injection Assembly, Complete	1	* * *	
	638154-9A3	. Fuel Pump Assembly, Complete	1	* * *	
	640118A5	. Throttle and Control Assembly	1	* * *	
	631427A17	. Manifold Valve Assembly	1	61-26	
10-470-F4	642175A1 ①	Crankcase Studding Assembly	1	***	
10 47014	401804	. Stud, 1/4 x 1-1/16 Inch Long (Cam Hole Cover)	2	***	
	531661	. Stud. 1/4 x 2-7/8 Inch Long	2	2-6	
	401808	. Stud, 1/4 x 1-5/16 Inch Long	5	2-10	
	535956	. Stud, No. 10 x 5/8 Inch Long			
	0044-4	(Oil Seal Retainer)	2	***	
	401837	. Stud, 5/16 x 2 - 1/8 Inch Long	4	2.18	
	539374	Washer, C/C-to-C/C at O-Ring	1	4-15	
	539518	Bracket, Engine Mounting	3	5-2	
	628257	Bracket, Engine Mounting, Cyl. No. 2	1	5-3	
	629409	Rod Assembly, Oil Gauge	1.	6-42	
	626189	Oil Cooler and Associated Parts (See IO-470-M)		24-	
	632823	Bracket, O/C (Secure to Rocker Cover)	1	***	1
	632824	Bracket, Oil Cooler	1	•	
	629806	Bolt, Special, 1/4 - 28	1	***	
	536779	Washer	1	***	
	2437	Nut	1	# # # 	
	637847	Starter, 24 Volts	1	32-1	
	628319	Sheave, Generator Drive	1	32-40	
	629417	Generator, 24 Volt, 50 Amp and			
		Associated Parts (See IO-470-U)		36-	
	628472	Magneto Assembly, Left Hand	1	44-1	
	628473	Magneto Assembly, Right Hand	1	44-1	
	636954	Harness Assembly	1	44-17	
	640106A9	Fuel Injection Assembly, Complete	1	* * *	·
	638154-9A18		1	***	-
	640118A2	. Throttle and Control Assembly	1	* * *	
	631427A17	, Manifold Valve Assembly	1	61-26	
	628873	Regulator, Voltage	1	76-1	
IO-470-F5	642175A1 @	· ·	1	***	
	401804	. Stud, 1/4 x 1-1/16 Inch Long	^	***	٠٠, .
		(Cam Hole Cover)	2		
	531661	. Stud, 1/4 x 2-7/8 Inch Long	2	2⋅6 2-10	
	401808	. Stud, 1/4 x 1-5/16 Inch Long	5	2-10	
	535956	. Stud, No. 10 x 5/8 Inch Long	2	***	Y.
		(Oil Seal Retainer)	2	2 10	
	401837	. Stud, 5/16 x 2-1/8 Inch Long	4	2-18 4-15	
	539374	Washer, C/C-to-C/C at O-Ring	1	4-10	

	MODEL SPEC	PART NUMBER	12345	DESCRIPTION	QTY	FIGURE INDEX
•	IO-470-F5	539518		ngine Mounting	4	6-2
_	(Continued)	629409	Rod Assem	bly, Oil Gauge	1	6-42
		626189		and Associated Parts (See IO-470-M)		24-
		632823		/C (Secure to Rocker Cover)	1	* * *
		632824		il Cooler	1	***
		629806		al, 1/4 - 28	1	* * *
		536779			1	* * *
		2437			1	***
		628472	Magneto A	ssembly, Left Hand	1	44-1
		628473		ssembly, Right Hand	1	44-1
		636954		sembly	1	44-17
		640106A8	-	ion Assembly, Complete	1	***
		638154-9A3		p Assembly, Complete	1	***
		640118A2		and Control Assembly	1	***
		631427A17		Valve Assembly	1	61-26
		627321	Regulator,	Voltage	1	76-1
	IO-470-F7	642174A1 Q	Crankcase	Studding Assembly	1	***
		401804	. Stud, 1/4	x 1-1/16 Inch Long		
				fole Cover)	2	***
		531661	. Stud, 1/4	x 2-7/8 Inch Long	2	2-6
		401808	. Stud, 1/4	x 1-5/16 Inch Long	5	2-10
		535956		. 10 x 5/8 Inch Long		
_				al Retainer)	2	***
	•	401837		6 x 2-1/8 Inch Long	4	2-18
		631927	. Guide, O	il Gauge Rod	1	2-29
		632062-4A1		bly, Oil Gauge	1	6-42
		25328			1	6-43
		631928			1	5-47
		632151	Housing .		1	5-48
		36151R			2	5-49
		631266-1		, ,	1	5-50
		632149			1	5-51
		22904			1	5·52
		2471			1	5-53
		22910			1	5-54
		13XX1896			1	5-55
		539374		C-to-C/C at O-Ring	1	4-15
		539518	_	ngine Mounting	3	5-2
		62825 <b>7</b>		igine Mounting, Cył. No. 2	1	5-3
		632357	Spacer, Cyl	inder No. 2	7	5-4
		626189		& Associated Parts (See 10-470-M)		24- ***
		632823		C (Secure to Rocker Cover)	1	***
		632824		l Cooler	i 1	***
		629806		al, 1/4 · 28 · · · · · · · · · · · · · · · · ·	1	***
		536779			1	***
		2437			2	42-1
_	`	625765	•	ssembly	2	42-1 42-7
		633311	Harness As:	sembly	τ	42.1

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
10-470-F7	640106A5	Fuel Injection Assembly, Complete	1	***
(Continued)	638154-9A3	. Fuel Pump Assy., Complete	1	# # *
,	640118A2	. Throttle and Control Assembly	1	* * *
	631427A17	Manifold Valve Assembly	1	61-26
	627321	Regulator, Voltage	1	76-1
10-470-F18	626334	Plug Special	1	2-30
	625966	Gasket	1	2-31
	AN123866	Seat, O-Ring	1	2-32
	539518	Bracket, Engine Mounting	3	6-2
	628257	Bracket, Engine Mounting	1	6-2
	637847	Starter, 24 Volt	1	32-1
	628319	Sheave, Starter Adapter	1	32-40
	625765	Magneto Assembly	2	42-1
	634675	Spark Plug	1	42-6
	633311	Harness Assembly	1	42.7
	641701	Bracket, Fuel Discharge Tubes, 1-3-5 Side	1	66-1
	628295	Bracket, Fuel Discharge Tubes, 2-4-6 Side	1	66-2 * * *
	640106A10	Fuel Injection Assembly, Complete	1	***
	638154-9A18	. Fuel Pump Assembly	1	***
	640118A5	. Throttle and Control Assembly	1	
	631427A17	. Manifold Valve Assembly	1	61-26
	639151	Oil Cooler and Associated Parts		80-
IO-470-F19	642175A1 <sup>©</sup>	Crankcase Studding Assembly	1	***
	401804	. Stud, 1/4 x 1-1/16 Inch Long (Cam Hole Cover)	2	***
	531661	. Stud, 1/4 x 2-7/8 Inch Long	2	2-6
	401808 535956	. Stud, 1/4 x 1-5/16 Inch Long	5	2-10
	555545	(Oil Seal Retainer)	2	***
	401837	Stud. 5/16 x 2 - 1/8 Inch Long	4	2-18
	639518	Bracket, Engine Mounting	4	6-2
	629409	Rod, Oil Gauge	1	6-42
	AN123860	O-Ring	1	6-43
	626189	Oil Cooler and Associated Parts		24-
	641701	Bracket, Fuel Discharge Tubes, 1-3-5 Side	1	66-36
	628295	Bracket, Fuel Discharge Tubes, 2-4-6 Side	1	66-37
	640106A11	Fuel Injection Assembly, Complete	1	***
	638154-9A3	Fuel Pump Assembly, Complete	1	***
	640118A5	. Throttle and Control Assembly	1	***
	631427A17	. Manifold Valve Assembly	1	61-26
IO-470-F23	642174A1 C		1	***
	401804	. Stud, 1/4 x 1-1/16 Inch Long (Cam Hole Cover)	2	***
	531661	. Stud, 1/4 x 2-7/8 Inch Long	2	2-6
	401808 535956	. Stud, 1/4 x 1-5/16 Inch Long Stud, No. 10 x 5/8 Inch Long	5	2-10
	000000	(Oil Seal Retainer)	2	* * *
	401837	. Stud, 5/16 x 2-1/8 Inch Long	4	2-18
	631927	. Guide, Oil Gauge Rod	1	2-29

	MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
	10-470-F23	632062-4A1	Rod Assembly, Oil Gauge	1	6-42
_	(Continued)	25328	. O-Ring	1	6-43
	.,,	631928	Hose	1	5-47
		632151	Housing	1	5-48
		36151R	Clamp	2	5-49
		631266-1	Clamp	1	5-50
		632149	Bracket	1	5.51
		22904	Screw	1	5· <b>52</b>
		2471	Washer	1	5-53
		22910	Washer	1	5- <b>5</b> 4
		13XX1896	Nut	1	5-55
		539374	Washer, C/C-to-C/C at O-Ring	1	4-15
		539518	Bracket, Engine Mounting	3	5-2
		628257	Bracket, Engine Mounting, Cyl. No. 2	1	5-3
		632357	Spacer	1	5-4
		626189	Oil Cooler & Associated Parts (See IO-470-M)		24-
		632823	Bracket, O/C (Secure to Rocker Cover)	1	* * *
		632824	Bracket, Oil Cooler	1	***
		629806	Bolt, Special, 1/4 - 28	1	***
		536779	Washer	1	* * *
		2437	Nut	1	***
		625765	Magneto Assembly	2	42-1
		633311	Harness Assembly	1	42-7
		640106A8	Fuel Injection Assembly, Complete	1	***
		638154-9A3	. Fuel Pump Assembly, Complete	1	* * *
	•	640118A2	. Throttle and Control Assembly	1	* * *
		631427A17	. Manifold Valve Assembly	1	61-26
	IO-470-F26	642174A1 (	Crankcase Studding Assembly	1	* * *
		401804	. Stud, 1/4 x 1-1/16 Inch Long		
			(Cam Hole Cover)	2	***
		531661	. Stud, 1/4 x 2-7/8 Inch Long	2	2-6
		401808	. Stud, 1/4 x 1-5/16 Inch Long	5	2-10
		535956	. Stud, No. 10 x 5/8 Inch Long		
			(Oil Seal Retainer)	2	***
		401837	. Stud, 5/16 x 2-1/8 Inch Long	4	2-18
		631927	. Guide, Oil Gauge Rod	1	2-29
		626334	Plug, Special	1	2-30
		625966	Gasket	1	2.31
		AN123866	Seal, O-Ring	1	2-32
		539518	Bracket, Engine Mounting	3	5-2
		628257	Bracket, Engine Mounting, Cylinder No. 2	1	5-2
		632357	Spacer	1	5- <b>4</b>
		637847	Starter, 24 Volt	1	32-1
		625765	Magneto Assembly	2	42-1
		633311	Harness Assembly	1	42.7
		641701	Bracket, Fuel Discharge Tubes, 1-3-5 Side	1	66-36
		628295	Bracket, Fuel Discharge Tubes, 2-4-6 Side	1	66-37
	•	639151	Oil Cooler and Associated Parts		80-

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
<u> </u>	640106A11	Fuel Injection Assembly, Complete	1	***
10-470-F26	638154-9A3	Fuel Pump Assembly, Complete	1	***
(Continued)	640118A5	. Throttle and Control Assembly	1	* * *
	631427A17	. Magneto Valve Assembly	1	61-26
		Neck Assembly, Oil Fifler	1	6-27
10-470-J6	538773	Cap Assembly, Oil Filler	1	6-29
	640620-5	Housing Assembly, Oil Pump	1	29-2
	632563A16	Generator, 12 Volt, 50 Amp	1	34-4
	628272	Fuel Injection Assembly, Complete	1	# # *
	639248A4	Fuel Pump Assembly, Complete	1	60-8
	638154-9A1 625487A3	. Throttle and Control Assembly	1	* * *
	631427A15	. Manifold Valve Assembly	1	60-26
10 470 4/0	000444	Thermo Unit, (Install in No. 4 Cyl.)	1	* * *
10-470-K3	629141 AN936A4	Washer, Lock, Thermo-Cyl. Head	1	***
	MS35649-242		1	* * *
	007070	Generator, 12 Volt, 50 Amp	1	34-4
10-470-K6	627272	Thermo Unit, (Install in No. 4 Cyl.)	1	***
	629141	Washer, Lock, Thermo-to-Cyl. Head	1	***
	AN936A4 MS35649-242		1	***
IO-470-K11	632563A33	Housing Assembly, Oil Pump	1	***
10 170 111	21208A2	. Housing Assembly, Tach Drive	1	30-7 ***
	636141	Magneto Assembly	2	
	633311	Harness Assembly	1	42-7
	629141	Thermo Unit (Install in No. 4 Cyl.)	1	***
1	AN936A4	Washer, Lock, Thermo-to-Cylinder Head	1	***
	MS35649-242	Nut, Thermo-to-Cylinder Head	1	
10 A70 K17	632077	Adapter Assy., Mag. & Accy. Drive (2-4-6 Side)	1	40-13
10-470-K12	534861	Adapter Assy., Mag. & Accy. Drive	1	40-13
	628472	Magneto Assembly, Left Hand	1	44-1
	628473	Magneto Assembly, Right Hand	1	44-1
	636954	Harness Assembly	1	44-17
	629141	Thermo Unit (Install in No. 4 Cyl.)	1	***
	AN936A4	Washer, Lock, Thermo-to-Cyl. Head	1	***
	MS35649-242		1	* * *
10-470-L3	539518	Bracket, Engine Mounting	3	6-2
10 110 20	628257	Bracket, Engine Mounting	1	6-2
	629416	Generator, 24 Volt 40 Amp	1	***
	636954	Harness Assembly	1	44-17
	639254A6	Fuel Injection Assembly, Complete	1	* * *
	638154-9A16	Fuel Pump Assembly, Complete	1	***
	629770A7	. Throttle and Control Assembly	1	***
	631427-3A2	. Manifold Valve Assembly	1	63-26

	MODEL	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
	IO-470-L5	642176A1 O	Crankcase Studding Assembly	1	***
		539518	Bracket Engine Mounting	3	5-2
		628257	Bracket, Engine Mounting (No. 2 Cyl.)	1	5-3
		629416	Generator, 24 Volt, 40 Amp	1	***
		025410	(See IO-470-M 35-1 thru 35-21 for Assoc. Parts)		
		636954	Harness Assembly	1	44-17
		639254A5	Fuel Injection Assembly, Complete	1	***
			Fuel Pump Assy., Complete	1	* * *
		638154-9A16	. Throttle and Control Assembly	1	* * *
		629770A4	. Inrottle and Control Assembly	1	63-26
		631427-3A2	. Manifold Valve Assembly	•	00 20
	IO-470-L8	539518	Bracket, Engine Mounting	3	6-2
	10-470-L0	628257	Bracket, Engine Mounting	1	6-2
		636954	Harness Assembly	1	44-17
		639253A12	Fuel Injection Assembly, Complete	1	* * *
			Fuel Pump Assembly, Complete	1	* * *
		638154-9A15	Throttle and Control Assembly	1	***
		629770A8	Manifold Valve Assembly	1	63-26
		631427-3A2	. Wanifold Valve Assembly		- <del>-</del>
	IO-470-L9	639518	Bracket, Engine Mounting	3	6-2
	10-470-L3	628257	Bracket, Engine Mounting	1	6-2
		631111	Alternator and Associated Parts		37-
			Magneto Assembly, L.H.	1	* * *
		632958	Magneto Assembly, R.H.	1	***
_		632959	Harness Assembly	1	* * *
		636952	Fuel Injection Assembly, Complete	1	* * *
		639253A12	Fuel Pump Assembly, Complete	1	***
		638154-9A15	. Throttle and Control Assembly	1	* * *
		629770A8	. Throttle and Control Assembly	1	63-26
		631427-3A2	, Manifold Valve Assembly	•	00-20
	IO-470-L11	642176A1 0	Crankcase Studding Assembly	1	***
	10-470-611	042170A1 =	(642176A1 is the same as 642177A1 except omit 2-3)		
		539518	Bracket, Engine Mounting	3	5-2
		628257	Bracket, Engine Mounting (Cyl. No. 2)	1	5-3
			Alternator and Associated Parts	1	37-
		631111	Fuel Injection Assembly, Complete	1	* * *
		639253A9		1	***
		638154-9A15	Fuel Pump Assy., Complete	1	***
		629770A3	. Throttle and Control Assembly	1	63-26
		631427-3A2	. Manifold Valve Assembly	•	00 20
	IO-470-L12	642176A1 O	Crankcase Studding Assembly	1	***
			(642176A1 is the same as 642177A1 except omit 2-3)	•	5.0
		539518	Bracket, Engine Mounting	3	5-2
		628257	Bracket, Engine Mounting, Cyl. No. 2	1	5-3
		639254A5	Fuel Injection Assembly, Complete	1	***
		638154-9A16	. Fuel Pump Assy., Complete	1	* * *
_		629770A4	. Throttle and Control Assembly	1	* * *
		631427-3A2	. Manifold Valve Assembly	1	63-26

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
IO-470-L13	539518	Bracket, Engine Mounting	3	6-2
10 470 210	628257	Bracket, Engine Mounting	1	6-2
	636954	Harness Assembly	1	44-17
	639254A6	Fuel Injection Assembly, Complete	1	***
	638154-9A16		1	* * *
	629770A7	. Throttle and Control Assembly	1	***
	631427-3A2	. Manifold Valve Assembly	1	63-26
10-470-L15	642176A1 ©	Crankcase Studding Assembly	1	* * *
	539518	Bracket, Engine Mounting	1	6-2
	634673	Bracket, Engine & Alt. Mounting	1	37-4
	641658	Alternator	1	***
	640261	Sheave, Alternator Driven	1 -	***
	634617	Bracket, Adjusting Arm	1	***
	530346	Screw, 5/16 x 7/8, Alternator-to-Arm	1	***
	13XX202B	Washer, Lock, Afternator-to-Arm	1	***
	537539	Washer, Alternator-to-Arm	2	* * #
	537750	Screw, 5/16 x 1-1/8 Arm to-Starter Adpt	1	***
	501868	Washer, Tab, Arm to-Starter Adapter	1	* * *
	634657	Bolt, 3/8 x 4-39/64 Alt-to-Bracket	1	<del>&gt; + +</del>
	22786	Washer, Alternator-to-Bracket	2	***
	2441	Nut, Alternator-to-Bracket	1	* * *
	539547-32.00	) Belt	1	***
	635169	Sheave, Starter	1	32-40
	632958	Magneto Assembly, Left Hand	1	***
	632959	Magneto Assembly, Right Hand	1	***
	636952	Harness Assembly	1	***
	639253A9	Fuel Injection Assembly, Complete	1	***
	638154-9A15		1	###
	629770A3	. Throttle and Control Assembly	1	***
	631427-3A2	. Manifold Valve Assembly	1	63-26
IO-470-L16	642176A1 (	Crankshaft Studding Assembly	1	***
	539518	Bracket, Engine Mounting	3	5-2
	628257	Bracket, Engine Mounting, Cyl. No. 2	1	5-3
	631111	Alternator and Associated Parts		37-
	639151	Oil Cooler and Associated Parts	_	81- ***
	632958	Magneto Assembly, Left Hand	1	***
	632959	Magneto Assembly, Right Hand	1	***
	636952	Harness Assembly	1	
	639253A9	Fuel Injection Assembly, Complete	1	***
	638154-9A15	5 . Fuel Pump Assy., Complete	1	***
	629770A3	. Throttle and Control Assembly	1	# # #
	631427-3A2	. Manifold Valve Assembly	1	63-26
IO-470-L18	642176A1	O Crankcase Studding Assembly	1	***

	MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
	IO-470-L18	539518	Bracket, Engine Mounting	3	5-2
_	Continued)	628257	Bracket, Engine Mounting, Cylinder No. 2	1	5-3
		631111	Alternator and Associated Parts		37-
		632958	Magneto Assembly, Left Hand	1	* * *
		632959	Magneto Assembly, Right Hand	1	* * *
		636952	Harness Assembly	1	* * *
		639253A9	Fuel Injection Assembly, Complete	1	* * *
		638154-9A15	. Fuel Pump Assy., Complete	1	***
		629770A3	. Throttle and Control Assembly	1	* * *
		631427-3A2	. Manifold Valve Assembly	1	63-26
		031427-3A2	. Maimoid valve Assembly 1111	·	
	10-470-L19	642525	Crankcase Studding Assembly	1	***
		635169	Sheave, Starter Adapter	1	32-40
		634673	Bracket, Engine & Alternator Mounting	1	37-4
		641658	Alternator	1	* * *
		640261	Sheave, Alternator Driven	1	* * *
	•	629825	Bracket, Adjusting Arm	1	* * *
		530346	Screw, 5/16 x 7/8, Altto-Arm	1	* * *
		13XX202B	Washer, Lock, Alternator-to-Arm	1	* * #
		537539	Washer, Alternator-to-Arm	2	***
		537750	Screw, 5/16 x 1-1/8, Arm-to-Str. Adpt	1	* # #
		501868	Washer, Tab, Arm to-Starter-Adpt	1	***
		634657	Bolt, 3/8 x 4-39/64, Alt-to-Bracket	1	* * *
		22786	Washer, Alternator-to-Bracket	2	* * *
_	_	2441	Nut, Alternator-to-Bracket	1	* * *
			•	1	* * *
		636141	Magneto Assembly	2	* * *
		636140	Harness Assembly	1	***
		639151	Oil Cooler and Associated Parts	1	8 <b>0</b> -
		639253A9	Fuel Injection Assembly, Complete	1	* * *
		638154-9A15	. Fuel Pump Assy., Complete	1	* * *
		629770A3	. Throttle and Control Assembly	1	***
		631427-3A2	. Manifold Valve Assembly	1	63-26
	IO-470-L20	642176A1 ①	Crankcase Studding Assembly	1	***
		539518	Bracket, Engine Mounting	3	5.2
		628257	Bracket, Engine Mounting, Cyl. No. 2	1	5-3
		629416	Generator 24 Volt, 40 Amp	1	* # *
		025410	(See 10-470-M 35-1 thru 35-21 for Associated Parts)		
		632958	Magneto Assembly, Left Hand	1	* * *
		632959	Magneto Assembly, Right Hand	1	***
		636952	Harness Assembly	1	***
		639253A11	Fuel Injection Assembly, Complete	1	***
			. Fuel Pump Assy., Complete	1	***
		638154-9A19 629770A3	. Throttle and Control Assembly	1	* * *
_	•	631427-3A2	. Manifold Valve Assembly	1	63-26

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
IO-470-L21	642525	Crankcase Studding Assembly	1	***
10-4/0-621	635169	Sheave, Starter Adapter	1	32-40
	634673	Bracket, Engine & Alt. Mounting	1	37-4
	641658	Alternator	1	***
	640261	Sheave, Alternator Driven	1	* * *
	629825	Bracket, Adjusting Arm	1	<b>**</b> *
	530346	Screw, 5/16 x 7/8, Alternator-to-Arm	1	***
	13XX202B	Washer, Lock, Alternator-to-Arm	1	* * *
	537539	Washer, Alternator-to-Arm	2	***
		Screw, 5/16 x 1-1/8, Arm to-Starter Adpt	1	* * *
	537750	Washer, Tab, Arm-to-Starter Adapter	1	***
	501868	Bolt, 3/8 x 4-39/64, Alt-to-Bracket	1	* * *
	634657	Washer, Alternator-to-Bracket	2	***
	22786	Nut, Alternator-to-Bracket	1	* * *
	2441		1	* * *
	539547-31.19	Magneto Assembly	2	***
	640030	Harness Assembly	1	***
	640031	Fuel Injection Assembly Complete	1	5 * <del>4</del>
	639253A9		1	***
	638154-9A15	. Throttle and Control Assembly	1	***
	629770A3	. Magneto Valve Assembly	1	63-26
	631427-3A2	. Wagneto vaive Assembly		
IO-470-N3	642181A1 ©	Crankcase Studding Assembly	1	***
10 470 110	401861	. Stud, 3/8 x 1-3/4 Inch Long	1	2-3
	637847	Starter, 24 Volts	1	32-1
	629417	Generator, 24 Volt, 50 Amp, and Associated Parts (See IO-470-M 35-1 thru 35-20)		
	630907	Bracket, Generator Mounting	1	35-21
	629204	Plate, Generator Bracket	1	***
	639265A3	Fuel Injection Assembly, Complete	1	***
	638154-9A7	. Fuel Pump Assembly	1	* * *
	627119	. Elbow, 90 Degree, F/P Outlet	1	70-B
	628438	. Fitting, Connector, F/P Outlet	1	70-B
	627119	. Elbow, 90 Degree, Vapor Return	1	70-D
	628438	. Fitting, Connector, Vapor Return	1	70-D
IO-470-N7	636954	Harness Assembly	1	44-17
IO-470-N10	632663	Bracket, Engine Mounting	4	***
10-470-1410	638152A1	Rod Assembly, Oil Gauge	1	6-42
	AN 123860	. O-Ring	1	6-43
	636141	Magneto Assembly	2	***
		Harness Assembly	1	42-7
	633311	Nut, Exhaust Flange	24	19-41
	536038	Fuel Injection Assembly, Complete	1	* * *
	639355A4	Fuel Pump Assembly, Complete	1	62-8
	638154-9A1	Throttle and Control Assembly	1	***
	639123A2 631427A20	. Throttle and Control Assembly	1	****

	MODEL SPEC	PART NUMBER	12345 DESCRIPTION	ΩΤΥ	FIGURE INDEX
	10-470-N11	632663	Bracket, Engine Mounting	4	***
_		638152A1	Rod Assembly, Oil Gauge	1	6-42
	•	AN123860	. O-Ring	1	6-43
		536038	Nut, Exhaust Flange	24	19-41
		640030	Magneto Assembly	2	***
		636603	Harness Assembly	1	***
		639355A4	Fuel Injection Assembly, Complete	1	87-
		638154-9A1	Fuel Pump Assembly, Complete	1	62-8
		639123A2	. Throttle and Control Assembly	1	***
		631427A20	. Manifold Valve Assembly	1	***
		031427720	. Wallios Valve / Issuerolly	•	
	IO-470-N12	642180A1 O	Crankcase Studding Assembly	1	* * *
		402066	. Stud, 3/8 x 1-7/8 (Alternator Bracket)	2	2-3
		401945	. Stud, 3/8 x 1-5/8 (Alternator Bracket)	2	2-3
		632663	Bracket, Engine Mounting	4	* * *
		538801	Neck Assembly, Oil Filler	1	6-27
		638152A1	Rod Assembly, Oil Gauge	1	6-42
		AN123860	. O-Ring	1	6-43
		637847	Starter, 24 Volts	1	32-40
		641658	Alternator	1	* * *
		640261	Sheave, Alternator	1	***
		634649	Bracket, Engine & Alternator Mounting	1	***
		AN960-616L	Washer, Alt. Bracket-to-Crankcase	4	***
		2441	Nut, Alt. Bracket-to-Crankcase	4	* * *
_		634657	Bolt, 3/8 x 4-39/64, Altto-Bracket	1	* * *
	•	22786	Washer, Alternator-to-Bracket	2	* * *
		2441	Nut, Alternator-to-Bracket	1	* * *
		634617	Bracket, Adjusting Arm	1	***
		530346	Screw, 5/16 x 7/8, Adj. Arm-to-Alternator	i 1	***
		537539	Washer, Adj. Arm to-Alternator	2	***
				1	***
			Belt		***
		632563A34	Housing Assembly, Oil Pump	1	29-37
		538516	. Gear Assy, Oil Pump & Tach Drive	1	29-37 29-38
		535634	. Dowel	1	29-36 29-40
		535900	. Gear, Bevel, Tach Drive	1	29-50
		640525	. Screen Assembly, Oil	1	29-50 29-51
		AN123866 538789A1	. Gasket, O-Ring	•	
			Parts (See IO-470-L)		30∙9
		640030	Magneto Assembly	2	***
		636603	Harness Assembly	1	***
		536038	Nut, Exhaust Flange	24	19-41
		639355A4	Fuel Injection Assembly	1	***
		638154-9A1	. Fuel Pump Assembly, Complete	1	62-8
		639123A2	. Throttle and Control Assembly	1	***
		631427A20	. Manifold Valve Assembly	1	***
	O-470-S2	642168A1 <sup>(1)</sup>	Crankcase Studding Assembly	1	# * *
	7 770-02	401893	. Stud, 1/4 x 1-1/4 Inch Long	5	2-10
		701033	. State, 174 A 1717 MICH EURY	J	2 10

MODEL SPEC	PART NUMBER	12345 DESCRIPTION	ΩΤΥ	FIGURE INDEX	
10-470-S2		Oil Cooler and Associated Parts (See IO-470-M)		24-	
(Continued)	625765	Magneto Assembly	2	42-1	
(COntinueo)	633311	Harness Assembly	1	42-7	_
10-470-S3	626765	Magneto Assembly	2	42-1	
10-470-33	633311	Harness Assembly	2	42.7	
10-470-58	642168A1 ①	Crankcase Studding Assembly	1	* * *	
10-470-36	401893	. Stud, 1/4 x 1-1/4 Inch Long	5	2-10	
	626189	Oil Cooler and Associated Parts (See 10-470-M)		24-	
	632823	Bracket, O/C (Secure to Rocker Cover)	1	* * *	
	632824	Bracket, Oil Cooler	1	***	
	629806	Bolt, Special, 1/4 - 28	1	***	
		Washer	1	* * *	
	536779	Nut	1	***	
	2437	Magneto Assembly	1	42-1	
	625765	Harness Assembly	1	42-7	
IO-470-U3	633311 628136	Washer, Thrust	4	9-11	
			1	***	
IO-470-V2	633942	Bracket, Engine Mounting	1	37-1	
	631111	Alternator	1	37-2	
	631094	Fan, Alternator	1	37-3	٠.
	633953	Sheave, Alternator	1	***	j
	633917	Bracket, Alternator Adjustment Arm	1	***	
	628730	Screw, 5/16 X 1, Alternator-to-Adjustment Arm	1	* * *	-
	537539	Washer, Alternator-to-Adjustment Arm	1	***	
	AN75A10	Bolt, 5/16 X 1/16, Arm-to-Str. Adapter	1	***	
	633948	Bolt, 3/8 X 7-9/16, Alternator-to-Bracket	2	***	
	401507	Washer, Alternator-to-Bracket	1	***	
	2441 539547-31,19	Nut, Alternator-to-Bracket	1	37-19	
	_		1	***	
IO-470-V6	642171A1 <sup>(1)</sup>		6	1-31	
	629847	Nozzle, Squirt	1	6-42	
	627995A2	Rod Assembly, Oil Gauge	1	6-43	1
	AN123860	O-Ring	6	13-1	
	631481	Piston, 8:1 Compression Natio	6	13-2	
	639565	Ring, Piston, Top Groove	6	13-3	
	639566	Ring, Piston, Second Groove	6	13-4	
	639563	Ring, Piston, Third Groove	6	13-5	
	627480	Ring, Piston, Fourth Groove	1	32-40	
	635169	Sheave, Starter Adapter	1	* * *	
	634649	Bracket, Engine & Afternator Mounting	1	***	
	641658	Alternator	1	* * *	
	640261	Sheave, Alternator Driven	1	***	
	634617	Bracket, Adjustment Arm	1	***	,
	530346	Screw, 5/16 x 7/8, Altto-Adjusting Arm	1	* * *	. d
	13XX202B	Washer, Lock, Alternator-to-Adjusting Arm	1	***	_
	537539	Washer, Alternator-to-Adjusting Arm	•		

	MODEL SPEC	PART NUMBER	12345 DESCRIPTION	QTY	FIGURE INDEX
`	IO-470-V6	537750	Screw, 5/16 x 1-1/8, Arm-to-Starter Adpt	1	***
	(Continued)	501868	Washer, Tab, Arm-to-Starter Adpt	1	***
	(Continued)	634657	Bolt, 3/8 x 4-39/64, Altto-Mtg. Bracket	1	***
		22786	Washer, Alternator-to-Mtg. Bracket	2	***
			Nut, Alternator-to-Mounting Bracket	1	* * *
		2441 536038	Nut, Exhaust Flange	24	19-41
		639808	Regulator, Voltage	1	76-1
		039000	negulator, voltage	•	70-1
	10-470-V8	642171A1 O	,	1	***
		629847	Nozzle, Squirt	6	1-31
		633942	Bracket, Engine Mounting	1	***
		631111	Alternator	1	37-1
		631094	Fan, Alternator	1	37-2
		633953	Sheave, Alternator	1	37-3
		633917	Bracket, Alternator Adjustment Arm	1	***
		628730	Screw, 5/16 X 1, Alternator-to-Adjustment Arm	1	* * *
		537539	Washer, Alternator-to-Adjustment Arm	1	* * *
		AN75A10	Bolt, 5/16 X 1/16, Arm-to-Str. Adapter	1	* * *
		633948	Bolt, 3/8 X 7-9/16, Alternator-to-Bracket	1	* * *
		401507	Washer, Alternator-to-Bracket	2	***
		2441	Nut, Alternator-to-Bracket	1	* * *
		539547-31.19	,	1	37-19
					* * *
	10-470-V9	642171A1 ①	,	1	
	•	629847	Nozzle, Squirt	6	1-31
		639589-1A1	Rod Assembly, Oil Gauge (Left Hand)	1	6-42
		639589-2A1	Rod Assembly, Oil Gauge (Right Hand)	1	6-42
		AN123860	. O-Ring	1	643
		631481	Piston, 8:1 Compression Ratio	6	13-1
		639565	Ring, Piston, Top Groove	6	13-2
		639566	Ring, Piston, Second Groove	6	13-3
		639563	Ring, Piston, Third Groove	6	13-4
		639480	Ring, Piston, Fourth Groove	6	13-5
		634649	Bracket, Engine and Alternator Mounting	1	***
		539058	Washer, Bracket-to-Crankcase	4	* * *
		2441	Nut. Bracket-to-Crankcase	4	***
		636415	Harness Assembly	1	* * *
		641638	Bracket, Throttle Body Support	1	***
		536038	Nut, Exhaust Flange	24	19-41
ı	O-470-V10	642171A1 <b>①</b>	Crankcase Studding Assembly	1	* * *
	0.470.410	629847	Nozzle, Squirt	6	1-31
		627995A2	Rod Assembly, Oil Gauge	1	6-42
		AN123860		1	6-43
			. O-Ring	6	13-1
		631481	Piston, 8:1 Compression Ratio	6	13-1
		639565	Ring, Piston, Top Groove	6	13-2
		639566	Ring, Piston, Second Groove	_	13-3
		639563	Ring, Piston, Third Groove	6	13-4
		627480	Ring, Piston, Fourth Groove	6	
		634000	Sheave, Starter Adapter	1	32-40

MODEL SPEC	PART NUMBER	12345	DESCRIPTION	QTY	FIGURE INDEX
10-470-V10	633942	Bracket Engine	& Alt. Mounting	1	***
(Continued)	539058		ng Bracket-to-C/C	4	* * *
(Continued)	2441		Bracket-to-C/C	4	*** —
	631111			1	37-1
	631094			1	37-2
	633953		tor Driven	1	<b>37-3</b>
	633917	,	djustment Arm	1	***
	628730		, Altto-Adj. Arm	1	***
	537539		ator-to-Adj. Arm	1	***
	AN75A10		I/16, Arm-to-Starter Adpt	1	* * *
	633948		16, Altto-Bracket	1	***
	401507		ator-to-Bracket	2	***
	2441		-to-Bracket	1	***
	539547-31.19			1	37-19
	641638		le Body Support	1	***
	536038		lange	24	19-41
	631656		age	1	76-1

## NOTES:

<sup>\*\*\*</sup> Not Illustrated.

① These are Phase 3 style crankcases. For earlier style, Phase 1 & 2, see Service Bulletin M78-9.

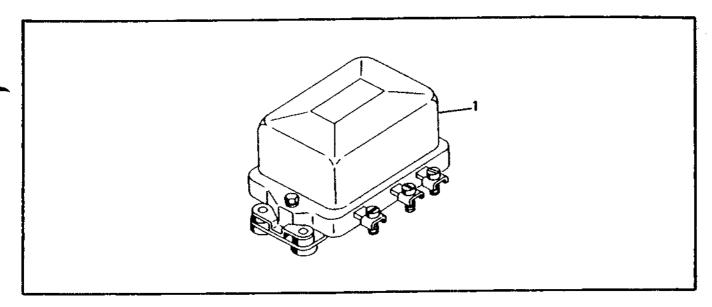


FIGURE 76

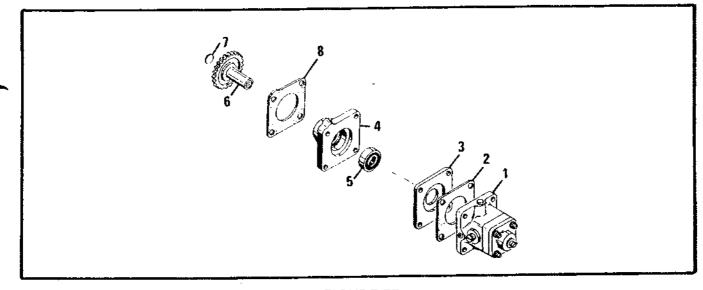


FIGURE 77

FIG. & INDEX	PART NUMBER	DESCRIPTION	QTY.
77-1	535262	Pump Assembly, Fuel	1
-2	AN4059-1	Gasket, Fuel Pump-to-Adapter	2
-3	537682	Insulator, Fuel Pump	1
-4	627518	Adapter Assembly, Fuel Pump	1
-5	534956	. Seal, Oil	1
-6	534995	Gear Assembly, Fuel Pump Drive	1
-7	539634	. Plug, Oil	1
-8	534941	& Gasket, Adapter-to-Crankcase	1

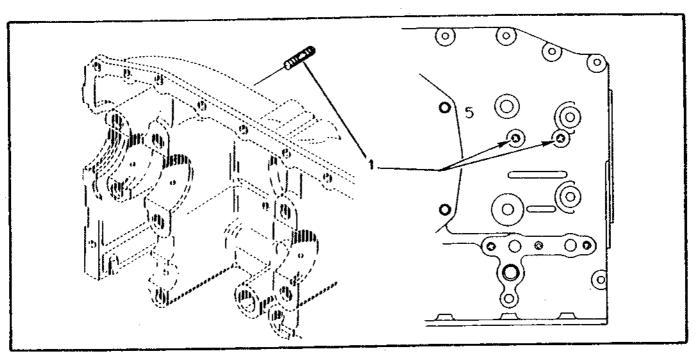


FIGURE 78

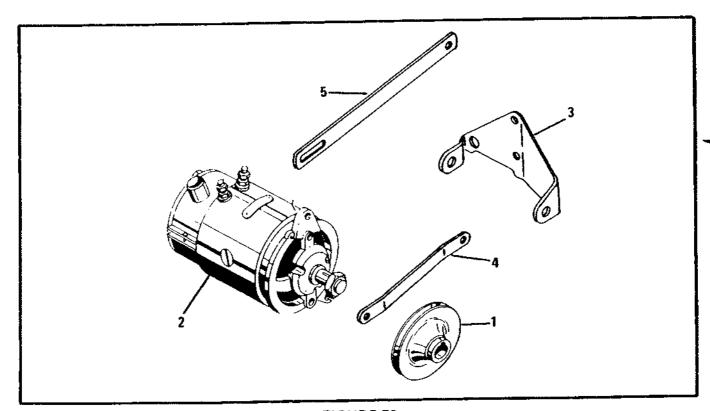


FIGURE 79

FIG. & INDEX	PART NUMBER	DESCRIPTION	оту.
79-1	627377	Sheave, Generator Drive	1
-2	627274	Generator, 24 Volt, 25 Amp	1
-3	539580	Bracket, Generator Support	1
-4	538283	Bracket, Generator Support	1
-5	538346	Arm, Generator Belt Adjusting	1

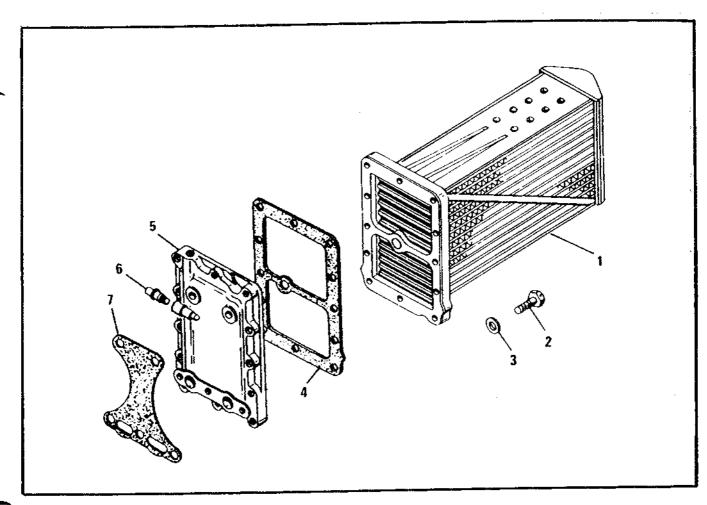


FIGURE 80

FIG. & INDEX	PART NUMBER	DESCRIPTION	QTY.
80-1	639151	Cooler, Oil	1
		ATTACHING PARTS	
-2	535668	Screw	12
-3	MS35338-44	Washer, Lock	12
-4	20522	Washer	12
		* * * *	1
-5	626342	Gasket, Oil Cooler-to-Plate	•
-6	626332	Plate, Oil Cooler	
-7	639305	Valve, Oil Temperature Control	3
-8	627496	. Gasket	7
.9	626341	Gasket, Plate-to-Crankcase	1
-10	2026	Plug	1

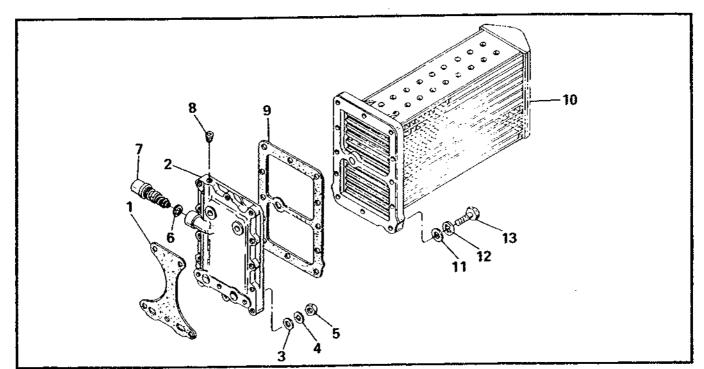


FIGURE 81

FIG. & INDEX	PART NUMBER	DESCRIPTION	QTY.
81-1	626341	Gasket, Crankcase-to-Plate	1
-2	626332	Plate Oil Cooler Adapter	2
		ATTACHING PARTS	
-3	20522	Washer, Plain	5
-4	MS35338-44	Washer, Lock	5
-5	2437	Nut, Plain, Hex	5
		* * * *	_
-6	639305	Oil Temperature Control Valve	1
-7	627496	. Gasket, Oil Temperature Control Valve	]
-8	2026	Plug, Pipe, 1/4 - 18	1
-9	626342	Gasket, Oil Cooler-to-Adapter	1
-10	639171	Cooler Assembly, Oil	. 1
		ATTACHING PARTS	
-11	20522	Washer, Plain	12
-12	MS35338-44	Washer, Lock	12
-13	535668	Screw, 1/4 - 20 x 3/8 Inch Long	12

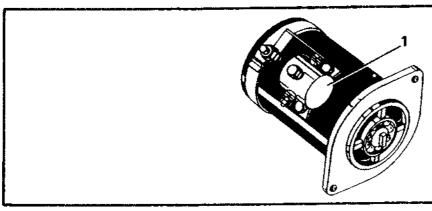


FIGURE 82