



**AMERICAN CHAMPION AIRCRAFT
CORPORATION**

"Dedicated to Preserving a Classic"

**PARTS MANUAL
FOR
MODEL**

8KCAB

1990 MODEL YEARS AND UP

AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI
DECATHLON 8KCAB

Foreword

This manual has been prepared to provide interested parties with information leading to replacement part procurement.

The manual relates to all model 8KCAB, Serial Numbers 643-90 and up, and is designed to aid in the identification of parts for these aircraft.

PUBLISHED BY:

AMERICAN CHAMPION AIRCRAFT CORPORATION

ISSUED SEPTEMBER 1, 1996

REISSUED JUNE 14, 1996

REVISION A ISSUED APRIL 23, 2003

This manual applies to 1990 model years and up.

AMERICAN CHAMPION AIRCRAFT CORPORATION

**ROCHESTER, WI
DECATHLON 8KCAB**

INTRODUCTION

The desired method of ordering parts is to insure prompt and accurate filling of orders is as follows.

1. Specify the airplane model, serial number and registration number.
2. Specify the part number, name, type (left or right) and quantity desired.
3. Method of payment for orders is Credit Card (Visa or Master Card), UPS COD (Cash on Delivery) or prepayment with certified check. There is a \$25.00 minimum on all orders, along with a \$5.00 minimum shipping/handling charge. An additional \$6.75 will be charged for all COD shipments. Sorry, we can only ship COD within the United States.
4. Specify the method of shipment: UPS Ground, UPS Next Day, UPS 2nd Day, or Air Parcel Post. When no instructions are given, we reserve the right to ship the most suitable way.

PLEASE NOTE: Some orders are too large or heavy for UPS or Air Parcel Post. These shipments must go via truck. You may use your choice of trucking company. If there is no preference, we will ship in the most suitable, least expensive manner. Orders that are sent truck shipment must be prepaid or applied to a Credit Card. Upon the customer's request; American Champion Aircraft will provide the trucking company's quotation for delivery charges prior to shipment.

**TO ORDER PARTS, CALL TOLL-FREE 1-800-223-9381
MONDAY – FRIDAY
8 AM – 4:30 PM**

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI
DECATHLON 8KCAB

SHORTAGES IN PARTS ORDERS

All shipments are checked before they leave the factory's shipping department to prevent errors and shipment shortages. Shipments should be checked against the accompanying packing slip/invoice immediately upon receipt. All claims for shortages should be made within ten days after receipt of the order.

RETURNED PARTS

Goods cannot be returned without authorization from American Champion Aircraft. All returns must be made within 30 days of receipt and are subjected to a 20% restocking fee (25% for returns exceeding \$500.00). The customer must prepay freight charges on returned items, or the shipment will be refused. All returns must include a copy of the invoice and a reason for return. If there is no reason for return, a 20% restocking fee will be deducted from the customer's credit. Credit may be held for future orders, or American Champion Aircraft will issue a refund check within 60 days.

DAMAGED MERCHANDISE

All merchandise leaves the factory in perfect condition. The carrier who delivers your order is responsible for loss or damage. Please inspect all items upon receipt. If there is damage, have the carrier note the nature and extent of damage on the freight bill. Then, notify the freight company. Do not destroy packing materials until the freight company inspects the shipment. It is the customer's responsibility to file a claim with the freight company.

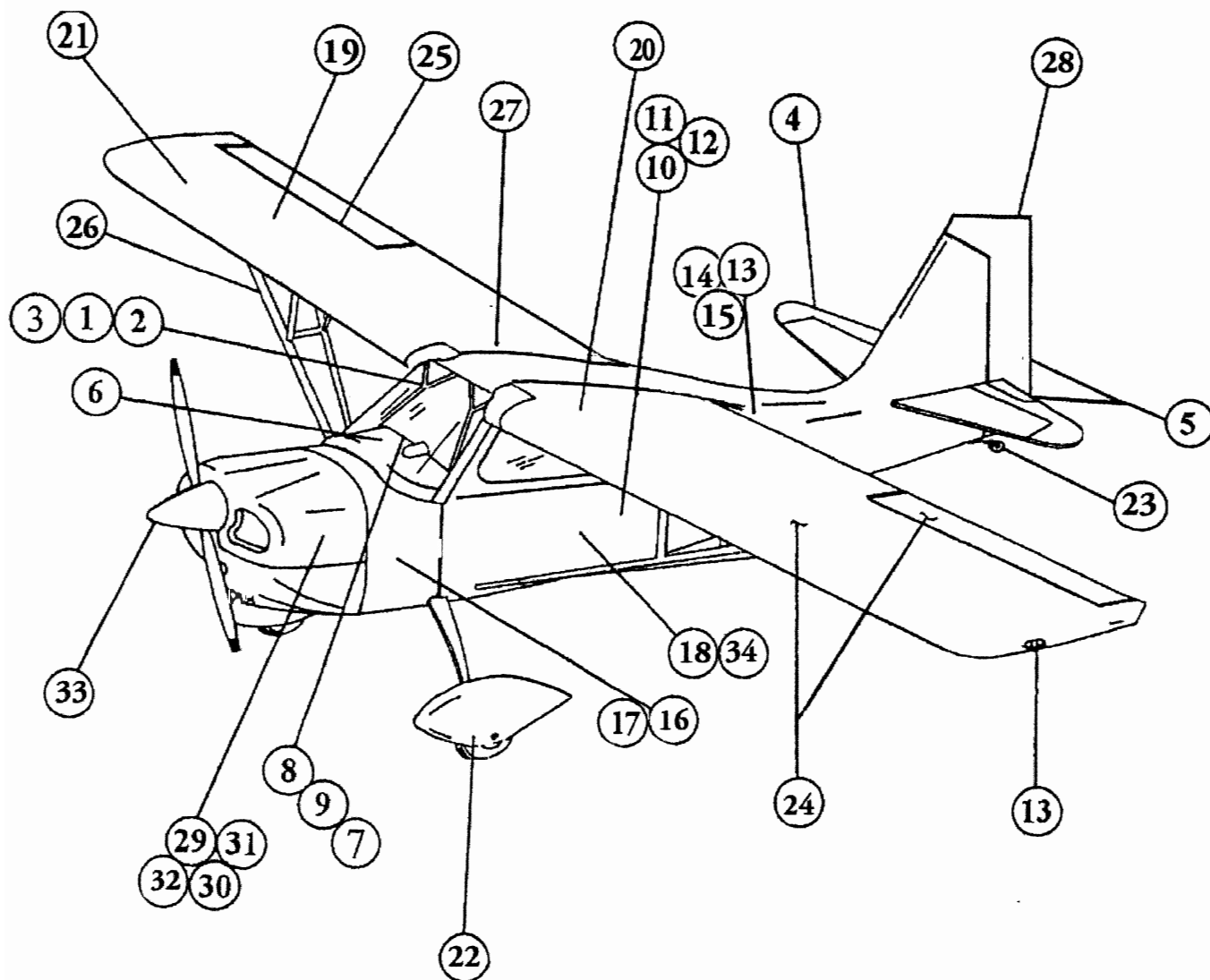
AMERICAN CHAMPION AIRCRAFT IS RELIEVED OF ANY RESPONSIBILITY FOR DAMAGE INCURRED IN TRANSIT.

AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

FIGURE 1
GENERAL VIEW INDEX ILLUSTRATIONS

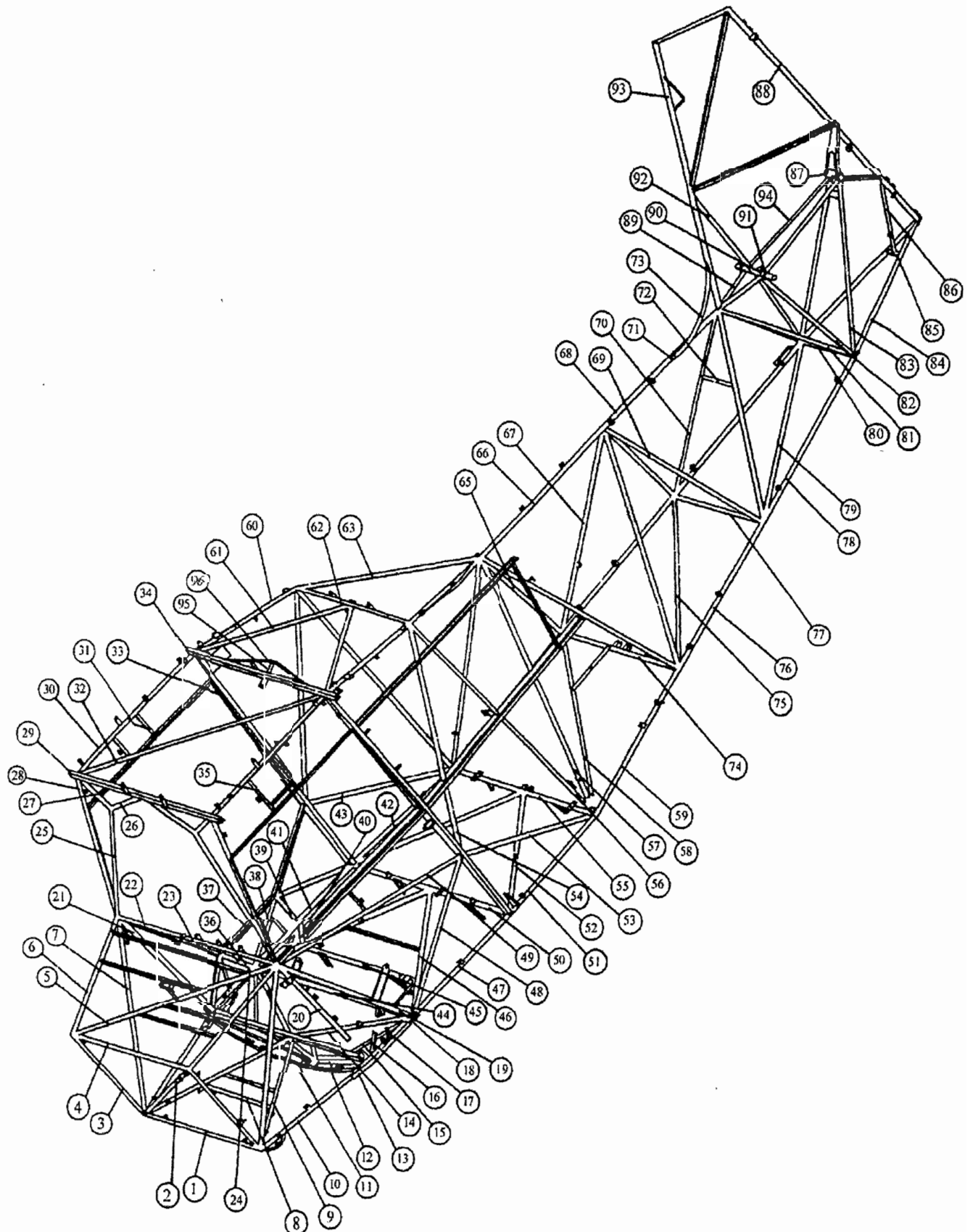


AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE#	TITLE	PAGE#
1	General View – Index Illustrations	1
2	Assembly – Fuselage Frame Tubes	3
3	Assembly – Fuselage Frame Fittings	6
4	Installation – Elevator and Aileron Controls	10
5	Installation – Rudder and Trim Control	14
6	Installation – Cabin Control and Rear Seat Heater	17
7	Installation – Instrument Panel	20
8	Installation – Instrument	22
9	Installation – Static System	25
10	Installation – Primary Fuselage Equipment	26
11	Installation – Interior Trim and Seats	30
12	Installation – Adjustable Seat	34
13	Electrical Equipment and Schematic A Prior to 860-2000	36
14	Electrical Equipment and Schematic B Prior to 860-200 and Up	40
15	Installation – Battery	44
16	Installation – Fuselage Fuel System	46
17	Installation – Toe Brake System	49
18	Installation – Fuselage Covering	51
19	Assembly – Wing Frame	53
20	Installation – Fuel Tank and Fuel Vent	58
21	Installation – Wing Covering	61
22	Installation – Landing Gear Cleveland Brakes	63
23	Installation – Tail Wheel	66
24	Installation – Wing and Aileron	68
25	Installation – Aileron Gap Covers and Seals	70
26	Installation – Wing Struts	71
27	Installation – Gap Covers	73
28	Installation – Tail Surfaces	74
29	Installation – Engine Baffles and Oil Cooler	77
30	Installation – Engine Intake and Exhaust System	79
31	Installation – Engine Mount	82
32	Installation – Lycoming Christen Oil System	84
33	Installation – Cowling and Propeller	86
34	Installation- Optional Baggage Door	89

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 2
ASSEMBLY - FUSELAGE FRAME TUBES



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION ASSEMBLY – FUSELAGE FRAME TUBES	UNITS PER ASSY
FIG. 2	7-1310 7-1410	Drawing – Assembly – Lower Truss – Spring Gear Drawing – Assembly – Fuselage Frames	8KCAB
1	7-1410-45	Tube	1
2	7-1410-62	Tube	1
3	7-1410-18	Tube	1L/1R
4	7-1410-37	Tube	1
5	7-1410-38	Tube	1
6	7-1410-1	Tube	1L/1R
7	7-1410-19	Tube	2
8	7-1410-79	Tube	1
9	7-1410-46	Tube	2
10	7-1410-10	Tube	2
11	4-1484	Fairing Tube	1
12	4-1453	Assembly – Lower Cabane Truss	1
13	2-1949	Tube	1L/1R
14	7-1410-207	Tube	1L/1R
15	7-1310-205	Tube	1L/1R
16	7-1410-210	Tube	1L/1R
17	7-1310-206	Tube	1L/1R
18	7-1410-208L	Tube	1L
19	7-1410-226	Tube	1
20	7-1410-209	Tube	1L
21	7-1410-211	Tube	1R
22	7-1410-39	Tube	1
23	7-1410-230	Tube	1
24	7-1410-232	Tube	1R
25	7-1410-42	Tube	1L/1R
26	7-1410-40	Tube	1L/1R
27	7-1410-41	Tube	1L/1R
28	7-1410-2	Tube	1L/1R
29	1-10094	Tube – Front Wing Attachment	1
30	3-1435-3	Tube	1L/1R
31	7-1410-238	Tube	2
32	3-1435-1	Tube	1
33	5-139	Tube	1L/1R
34	3-1435-2	Tube Assembly – Rear Wing Attachment	1
35	7-1410-237	Tube	2
36	7-1410-228	Tube	1
37	7-1410-66	Tube	1
38	7-1410-227	Tube	1
39	7-1410-222	Tube	1
40	7-1410-221	Tube	1
41	7-1410-218	Tube	1R
42	7-1410-229	Tube	1
43	7-1410-231	Tube	1
44	7-1410-219	Tube	1
45	7-1410-51	Tube	1
46	7-1410-50	Tube	1L/1R
47	7-1410-12	Tube	1

AMERICAN CHAMPION AIRCRAFT CORPORATION

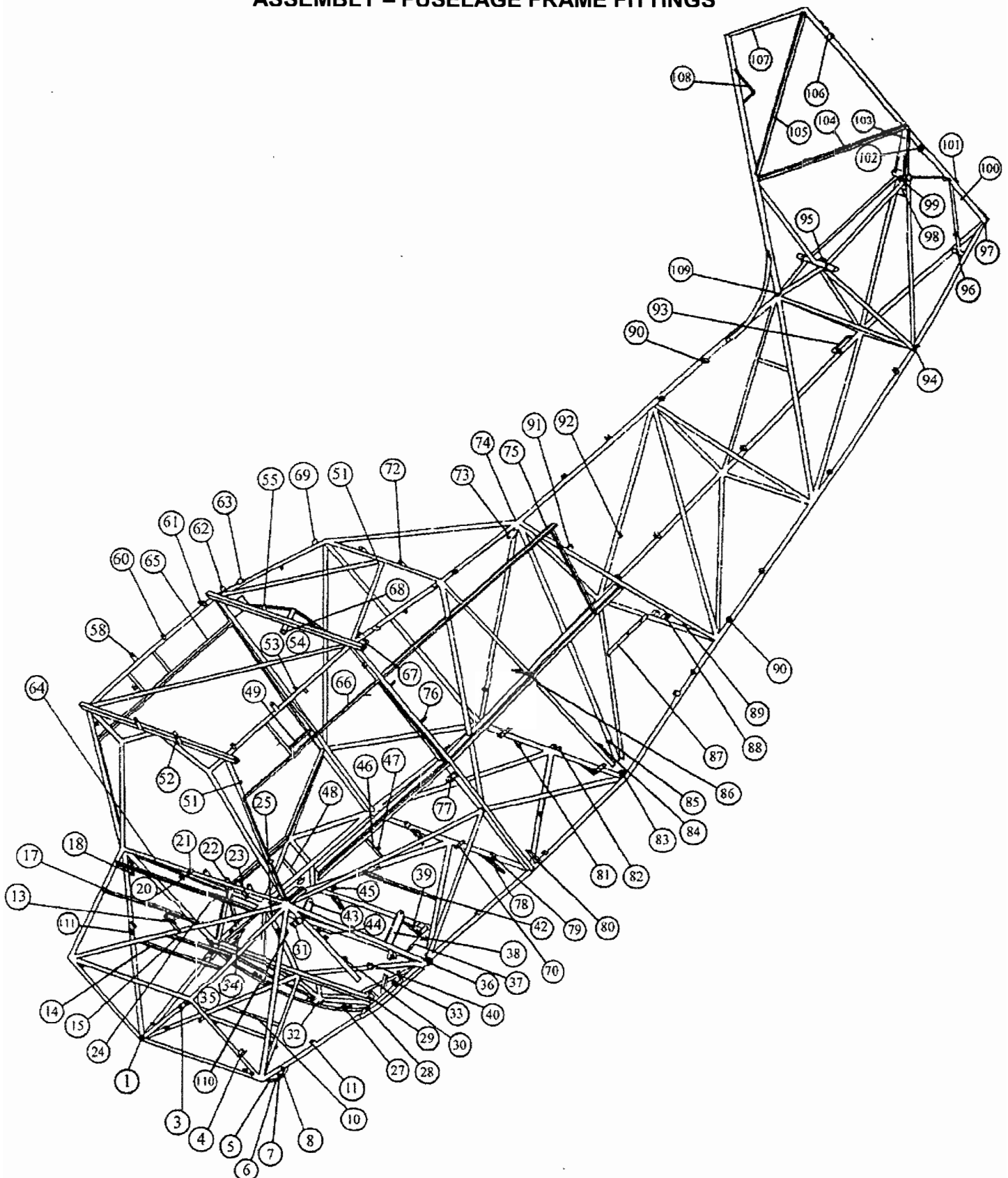
ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

FIG. 2 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
48	7-1410-224	Tube	1
49	7-1410-225	Tube	1
50	7-1410-52	Tube	1
51	7-1410-13	Tube	1L/1R
52	7-1410-53	Tube	1L/1R
53	7-1410-26	Tube	1L/1R
54	7-1410-27	Tube	1L/1R
55	7-1410-54	Tube	1
56	7-1410-223	Tube	1L/1R
57	7-1410-29	Tube	1L/1R
58	7-1410-55	Tube	1
59	7-1410-14	Tube	1L/1R
60	7-1410-4	Tube	1L/1R
61	7-1410-43	Tube	1L/1R
62	7-1410-44	Tube	1
63	7-1410-5	Tube	1L/1R
65	7-1410-30	Tube	1L/1R
66	7-1410-6	Tube	1
67	7-1410-31	Tube	1L/1R
68	7-1410-220	Tube	1
69	7-1410-32	Tube	1L/1R
70	7-1410-213	Tube	1L/1R
71	7-1410-204	Tube	1
72	7-1410-214	Ring	1
73	7-1410-202	Tube	1
74	7-1410-56	Tube	1
75	7-1410-57	Tube	1
76	7-1410-15	Tube	1L/1R
77	7-1410-58	Tube	1L/1R
78	7-1410-16	Tube	1L/1R
79	7-1410-59	Tube	1
80	7-1410-60	Tube	1
81	7-1410-215	Tube	1L/1R
82	7-1410-216	Tube	1L/1R
83	7-1410-217	Tube	1L/1R
84	7-1410-17	Tube	1L/1R
85	7-1410-61	Tube	1
86	7-1410-36	Tube	1
87	7-1410-76	Tube	1
88	7-1411-1	Tube	1
89	7-1410-212	Tube	1L/1R
90	7-1410-73	Tube	1
91	7-1410-78	Tube	1L/1R
92	7-1411-2	Tube	1
93	7-1411-3	Tube	1
94	7-1410-9	Tube	1L/1R
95	7-1410-253	Tube	1
96	7-1410-254	Tube	2

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 3
ASSEMBLY – FUSELAGE FRAME FITTINGS



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION ASSEMBLY – FUSELAGE FRAME FITTINGS	UNITS PER ASSY
FIG. 3	7-1410	Drawing – Fuselage Frame	8KCAB
1	1-624	Fitting – Engine Mount Attachment	4
3	1-2574	Clamp – Control Casing	1
4	11-0831	Bracket – Fuel Shutoff Attachment	1
5	1-2278	Lug – Rudder Spring Attachment	2
6	3-1536-1	Support – Tube Master Cylinder Toe Brake	2
7	1-9064-2	Lug – Support Master Cylinder Toe Brake	1
8	AS1-10058-0-20	Bushing – Rudder Pedal Outboard	4
	1-2334	Bushing – Rudder Pedal Inboard Forward	2
10	1-9918-2	Angle – Floor Board Attachment	1
11	1-2270-1	Clip – Floor Board Attachment	16
13	2-2023	Support – Wraparound	1
14	1-10117-1	Tube – Tank Support	1
15	1-10117-2	Tube – Tank Support	1
17	1-10611	Radio Support Frame	1
18	1-10206-1	Lug – Control Attachment – Parking Brake	1
20	1-2786	Support – Door Release	1
21	AS1-12058-0-20	Bushing – Primer Attachment	1
22	1-2451	Lug – Push and Pull Control Attachment	3
23	1-10195	Lug – Governor Control Attachment	1
24	2-2185	Support – Instrument Panel	1
25	1-2463-1	Lug – Instrument Panel Attachment	1
27	4-1484	Fairing Tube – Wraparound Attachment	1
	1-2629	Lug – Wraparound	2
	1-10346	Lug – Belly Pan Attachment	4
	1-2273	Clip – Fairing Attachment	2
28	1-9837	Bushing – U-Bolt Attachment	4
29	1-2629	Lug – Wraparound Attachment side	4
30	1-2270	Clip – Fuel Shutoff Bracket Attachment	1
31	1-2361	Bracket – Heat Control	2
	1-10236	Lug – Throttle Control	1
32	1-2265	Plate – Fairing Tube Attachment	1
33	1-2451	Lug – Rudder Pedal Attachment	2
34	1-9998	Fairing – Landing Gear Opening	1L/1R
35	1-2451-2	Lug – Brake Line Attachment	2
36	1-2263-1	Fitting – Strut Attachment	4
	1-2265	Shear Plate	2
37	1-10543	Support – Rudder and Brake Pedal – Rear	1L/1R
38	2-1904	Bracket – Trim Tab	1
39	2-2077	Bracket – Stringer Attachment	2
40	1-2271	Lug – Front Seat Attachment	4
42	1-9918-1	Floor Board Attachment	1
43	2-714-3	Bracket – Throttle Control – Front	1
44	1-9914	Clip – Rear Seat Heater Hose Attachment	2
45	1-2683	Support – Trim Tab Plate	2
46	1-2269	Angle – Window Frame Support	1
47	1-9913	Angle – Side Panel Attachment	3

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

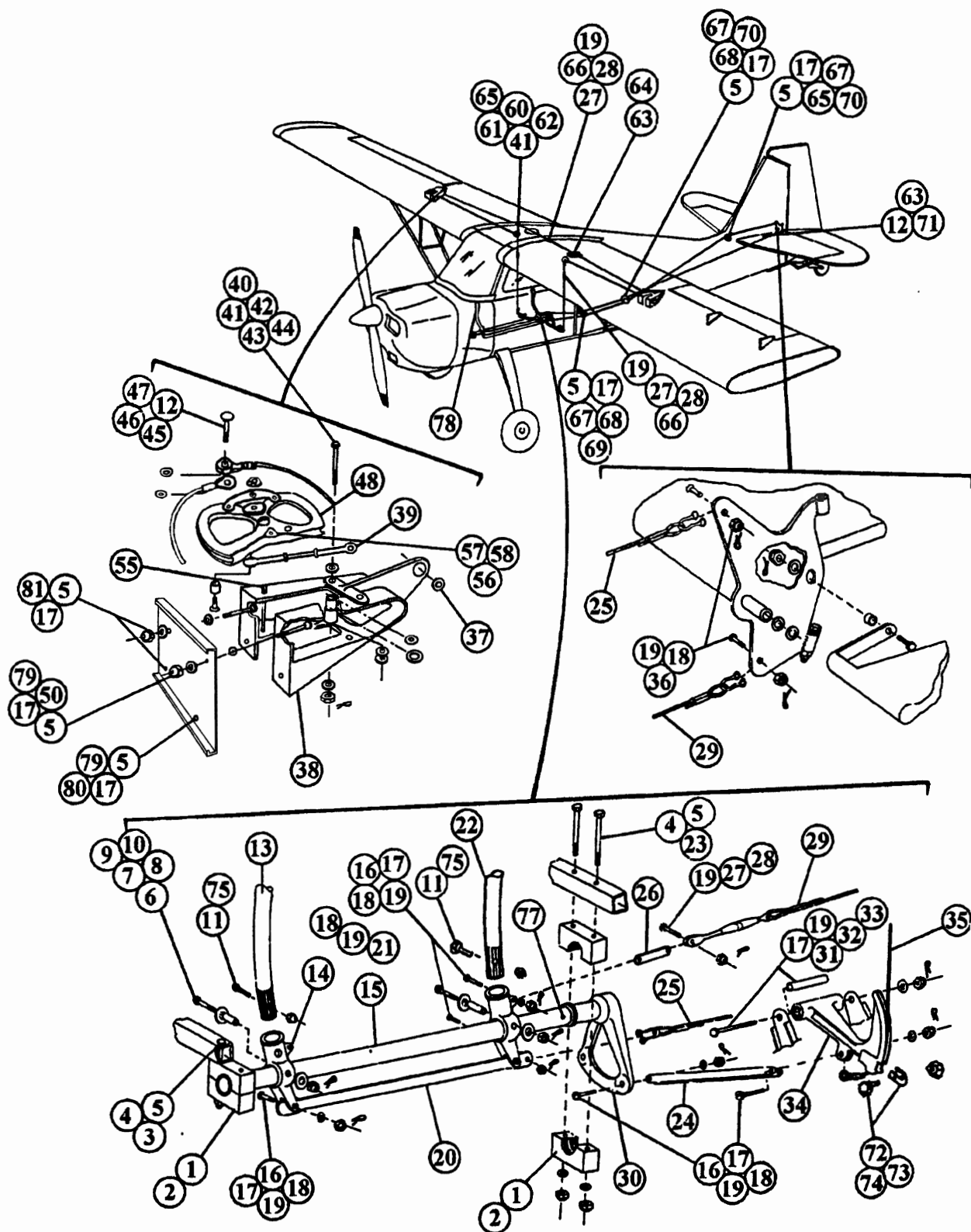
FIG. 3 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
48	4-588	Step – Assembly Cabin	
	3-465	Cup (component of step assembly)	
	1-2407	Lid (component of step assembly)	
49	1-10313	Angle – Headliner Fuel Gauge	1
51	1-2270	Lug – Gap cover Attachment	1
52	1-2817	Lug – Fairing Attachment	6
53	1-9988	Support – Electrical Panel – Forward	4
54	7-1290-201	Support – Electrical Panel – Aft	1
55	2-930-1	Lug – Fairing Attachment	1
58	1-2817	Lug – Fairing Attachment	2
60	1-2683	Support	2
61	1-2270	Clip – Fairing Attachment	2
62	2-930-1	Clip – Fairing Attachment	4
63	1-2468	Support – Cable Fair Lead	2
64	1-2278	Lug – Door Hinge	4
65	1-9931	Door – Channel – Top	1
	1-9933	Door – Channel – Aft	1
	1-9930	Door – Channel – Lower Aft	1
	1-9928	Door – Channel – Lower	1
	1-9929	Door – Channel – Lower Forward	1
	2-1879	Door – Channel – Forward	1
66	2-1948	Window – Channel – Upper	1
	1-9859	Window – Channel – Forward	1
	1-9917	Plate – Electrical Panel Attachment	2
	2-1955	Window – Channel – Lower	1
	1-9861	Window – Channel – Aft	1
	1-10050	Clip – Window Hinge – Forward	1
67	1-2276-2	Lug – Aileron Pulley Bracket	4
68	11-0647	Lug	1
	11-0648	Lug	1
69	1-10111	Clip – Gap Cover Attachment	2
70	11-0837	Support	1
72	2-930-1	Clip – Fairing Attachment	4
73	1-2271	Lug	1
74	1-2398-2	Clip – Bulkhead Wide	3
75	2-1876	Channel – Rear Window – Top	1L/1R
	1-9919	Channel – Rear Window – Aft	1L/1R
	2-1875	Channel – Rear Window – Bottom	1L/1R
76	1-2270	Lug – Side Retainer Attachment	6
77	2-714	Bracket – Throttle Control – Aft	1
78	2-711	Bracket – Stringer Attachment	2
79	1-2297	Lug – Rear Seat Assembly	4
80	2-810	Bracket – Aileron Bell Crank Attachment	1L/1R
	2-811	Bracket – Aileron Bell Crank Attachment	1L/1R
81	1-2272	Support – Stringer Attachment	2
82	1-2476-3	Lug – Elevator Pulley Attachment	2
83	1-10173	Ring – Baggage Net Tie Down	4
84	1-2588	Support – Stringer	2

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIG. 3 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
85	1-2539-1	Stud – Rudder Pulley Attachment	2
86	1-8867	Plate – Window Frame Support	2
87	2-2080	Bracket – Battery Attachment	1
88	1-2476-3	Lug – Elevator Pulley Attachment	4
89	1-2270	Lug – Fuel Drain Attachment	1
90	1-2273	Clip – Bulkhead Attachment	26
91	1-9816	Clip – Fuel Manifold Support	1
92	1-2451	Lug – Battery Cable Ground Attachment	1
93	1-753	Handle – Fuselage Lift	1
94	1-8318	Lug – Drag Wire Attachment	2
95	1-10075	Lug – Elevator Pulley Attachment	2
96	AS1-8058-1-16	Bushing – Tailwheel Attachment	1
97	1-2318	Skid – Tailwheel Attachment	1
98	1-9882	Bracket – Fairland Cable	1
99	1-2710	Stud – Trim Tab Cable	1
100	1-2363	Stop – Rudder	2
101	1-10015	Bushing – Rudder Attachment	4
102	1-2538	Stop – Elevator	1
103	2-2123	Bracket – Stabilizer Attachment	2
104	2-1991-1	Rib – Fin	1
105	2-1991-2	Rib – Fin	1
106	1-2308-1	Fitting – Drag Wire Attachment	1
107	2-707	Rib – Fin	1
108	1-9912	Bracket – Antenna	1
109	AS3-18050	Blank – Tube Closure	1
110	1-10576	Lug – Throttle – Push – Pull Control	1
	1-2574	Clamp – Push – Pull Control	1
111	1-10206	Lug – Cabin Heat and Fresh Air	4

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 4
INSTALLATION - ELEVATOR AND AILERON CONTROLS



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – ELEVATOR AND AILERON CONTROLS	UNITS PER ASSY
FIG. 4	7-1486	Drawing – Installation – Flight Control System Bearings	8KCAB
1	1-10370	Bearing Block – Control Torque Tube	2
2	B188PS	Bearing – Control Torque Tube	2
3	AN4-30A	Bolt	2
4	AN960-416L	Washer	4
5	AN365-428	Nut	12
6	AN6-25	Bolt	2
8	11-0653	Bushing	4
9	AN310-6	Nut	2
10	AN380-3-3	Cotter Pin	2
11	AN3-15A	Bolt	2
12	AN365-1032	Nut	8
13	4-1731-1	Control Stick – Front	1
14	2-705	Socket – Control Stick	2
15	2-2108	Torque Tube	1
16	AN24-16	Bolt	3
17	AN960-416	Washer	29
18	AN320-4	Nut	6
19	AN380-2-2	Cotter Pin	15
20	1-2383	Connecting Tube	1
21	AN24-12	Bolt	1
22	4-1711-1	Control Stick – Rear	1
23	AN4-27A	Bolt	2
24	1-2355	Strap	4
25	3-1072	Cable Assembly Elevator – Up (specify galv. or stainless)	1
26	1-2356	Link – Elevator Down	1
27	AN23-10	Bolt	7
28	AN320-3	Nut	7
29	2-1534	Cable Assembly Elevator – Down (specify galv. or stainless)	1
30	2-2105	Assembly – Aileron Torque Arm	1
	B188PS	Bearing	1
	2-706	Aileron Torque Arm	1
	1-10371	Bushing	1
31	AN4-22	Bolt	2
32	1-2719	Bushing	2
33	AN310-4	Nut	2
34	2-2106	Sector Assembly – Aileron Control	1L/1R
	B65NS	Bearing	2
	3-1564	Sector – Aileron Control	1
35	1-2397	Cable Assembly – Aileron Control (specify galv. or stainless)	2
36	AN24-11	Bolt	2
37	AN201-K4A	Bearing	2
38	3-1431	Aileron Hinge Sector Bracket with AN201-KP4A Installed	1L/1R

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

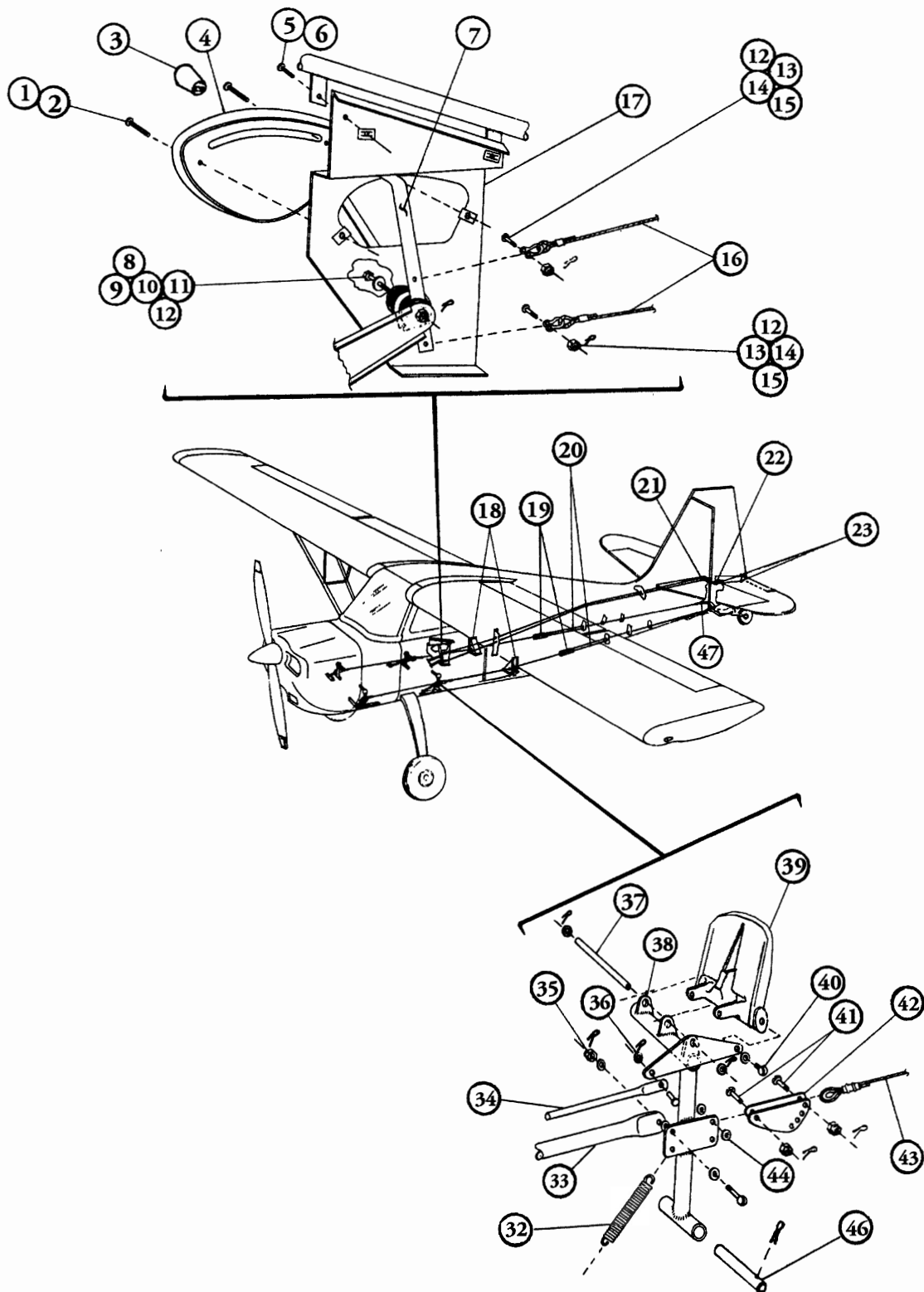
FIG. 4 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
39	1-10078	Push Rod	2
	F34-14M	Rod End	4
	AN23-22A	Bolt	2
	1-2518-1	Bushing	2
	AN365-1032	Nut	2
40	AN5-27	Bolt	2
41	AN960-516	Washer	6
	1-10369	Bushing	2
42	AN310-5	Nut	2
44	AN380-2-3	Cotter Pin	2
45	AN3-10A	Washer	4
46	AN960-10L	Washer	2
47	AN960-10	Washer	4
48	2-2115	Aileron Sector – With B65NS Bearing Installed	2
	B65NS	Bearing	4
49	AN4-7A	Bolt	4
50	AN970-4	Washer	2
52	AN23-22A	Bolt	1
53	AN364-1032	Nut	1
54	1-10270	Bushing	1
55	AN380-6-10	Cotter Pin	1
56	1-10276	Shim	1
57	AN936-A8	Washer – Lock	1
58	AN526-832-8	Screw	1
59	AN960-616L	Washer	2
60	MS20220-2	Pulley	2
61	AN5-12A	Bolt	2
62	AN365-524	Nut	2
63	1-2396	Fairlead	5
64	AN520-10-14	Screw	4
	AN365-1032	Nut	4
65	AN380-4-4	Cotter Pin	3
66	MS21251-B5S	Turn Buckle	3
67	MS24566-3B	Pulley	5
68	1-10227	Guard	4
69	AN4-15A	Bolt	1
70	AN4-11A	Bolt	3
71	AN3-4A	Bolt	2
72	1-2573	Guard	2
73	AN515-8-12	Screw	2
74	AN365-832	Nut	2
75	AN364-1032	Nut	2
76	1-10100	Cable Assembly	4
77	AN975-4	Washer	2
	AN365-428	Nut	2
	AN386-3-10A	Pin	2
78	OEM380	Grip – Control Stick	2

AMERICAN CHAMPION AIRCRAFT CORPORATION**ROCHESTER, WI 53167****DECATHLON 8KCAB PARTS MANUAL**

FIG. 4 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
79	AN4-7	Bolt	4
80	1-8897	Washer	2
81	AN4-10	Bolt	4

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 5
INSTALLATION – RUDDER AND TRIM CONTROLS



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

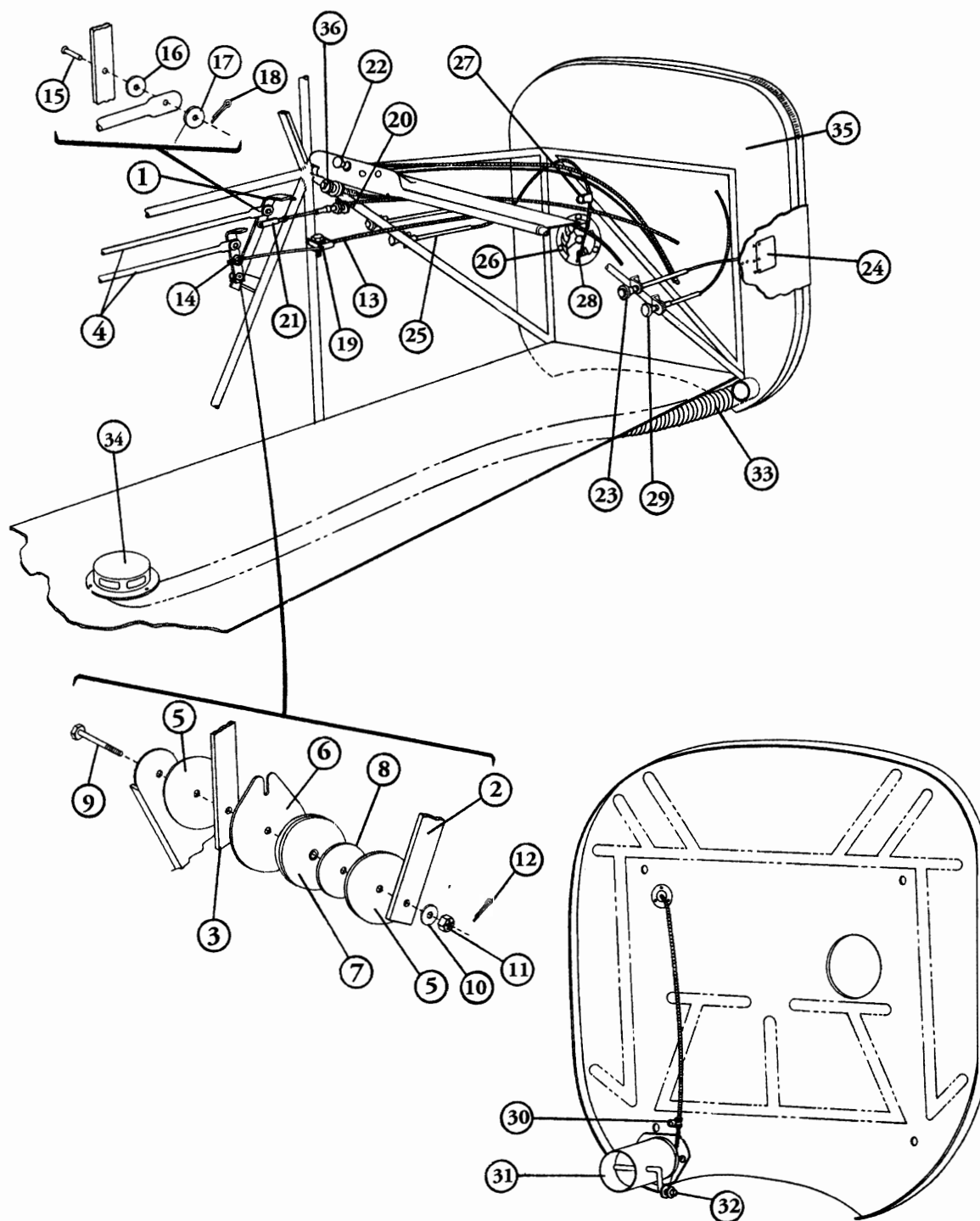
INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – RUDDER AND TRIM CONTROLS	UNITS PER ASSY
FIG. 5	4-1621 7-1294 7-1486	Drawing – Sub-Assembly – Rudder Pedals and Toe Brakes Drawing – Installation – Trim Tab Side Mounted Drawing – Installation – Flight Controls System (rudder)	8KCAB
1	AN515-B8-16	Screw	2
2	1-9737-1	Nut (alternate CO1287-832-4)	2
3	1-9186	Knob – Trim Tab Control	1
4	3-1605 2-1911 AD42BS	Quadrant – Trim Tab Placard – Trim Tab Control Rivet	1 1 3
5	AN526-832-6	Screw	2
6	C420-832-1	Timmerman Nut	2
7	2-720	Handle – Trim Tab	1
8	AN4-10	Bolt	1
9	AN970-4	Washer	1
10	AN931-4-16	Grommet (rubber – MS35489-8)	1
11	1-2381 1-2380	Washer – Round Plate	2 1
12	AN380-2-2	Cotter Key	3
13	AN23-9	Bolt	2
14	AN115-16	Shackle	2
15	AN320-3	Nut	2
16	2-1905 2-753-2 WSI-B-4A WSI-B-4D	Cable Assembly – Trim Tab Control (specify galv. or stainless) Chafe Block Bushing – Channel (not shown special) Bushing – Bulkhead (installation tool required)	2 1 2 4
17	4-1408	Plate – Trim Tab	1
18	3-485 AS6-4-6SP	Cover – Aileron Sectors Screws	2 10
19	MS24566-3B 1-10227 AN365-428	Pulley Guard Nut	2 2 2
20	2-1878	Guard – Elevator Cable	1L/1R
21	ASI-5028-0-11C 1-2636 1-10258 AN960PD516L AN364-428 1-2398-1	Bushing Bushing Pulley Washer Nut Guard	1 1 2 3 1 1
22	1-2395 1-2759 AN960-PD516L 1-2399 AN310-4 AN380-2-2	Pulley Bushing Washer Guard Nut Cotter Key	2 1 2 1 1 1
23	AN23-9 AN320-3 AN380-2-2	Bolt Nut Cotter Key	2 2 2
32	1-2568 1-769	Spring – Rear Rudder Pedal Spring – Front Rudder Pedal	2 2

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIG.15 INDEX #	PART NUMER	DESCRIPTION	UNITS PER ASSY
33	2-1518	Link – Connecting	2
34	1-10300	Rod – Connecting	2
35	AN23-9AN960-10L	Bolt	4
	AN960-10L	Washer	12
	AN320-3	Nut	4
	AN380-2-2	Cotter Key	4
36	MS20392-2C7	Pin	4
	AN960-PD10L	Washer	4
	AN380-2-2	Cotter Key	4
37	1-10299	Bushing	4
	AN960-516L	Washer	12
	AN380-2-2	Cotter Key	8
38	3-1534	Rudder Pedal – Toe Brake	4
39	3-1537-1	Pedal – Toe Brake Front	2
	3-1537-2	Pedal – Toe Brake Rear	1L/1R
40	AN526-1032-5	Screw	4
	AN936-A10	Washer	4
41	AN23-10	Bolt	4
	AN320-3	Nut	4
	AN380-2-2	Cotter Key	4
42	1-8744-1	Plate – Pedal Connecting	2
43	1-2364	Cable – Rudder (specify galv. or stainless)	2
44	AN960-10L	Washer	4
46	1-2411	Bushing – Pedal Attachment	4
	AN380-4-4	Pin – Attachment	4

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 6
INSTALLATION - CABIN CONTROL AND REAR SEAT HEATER



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

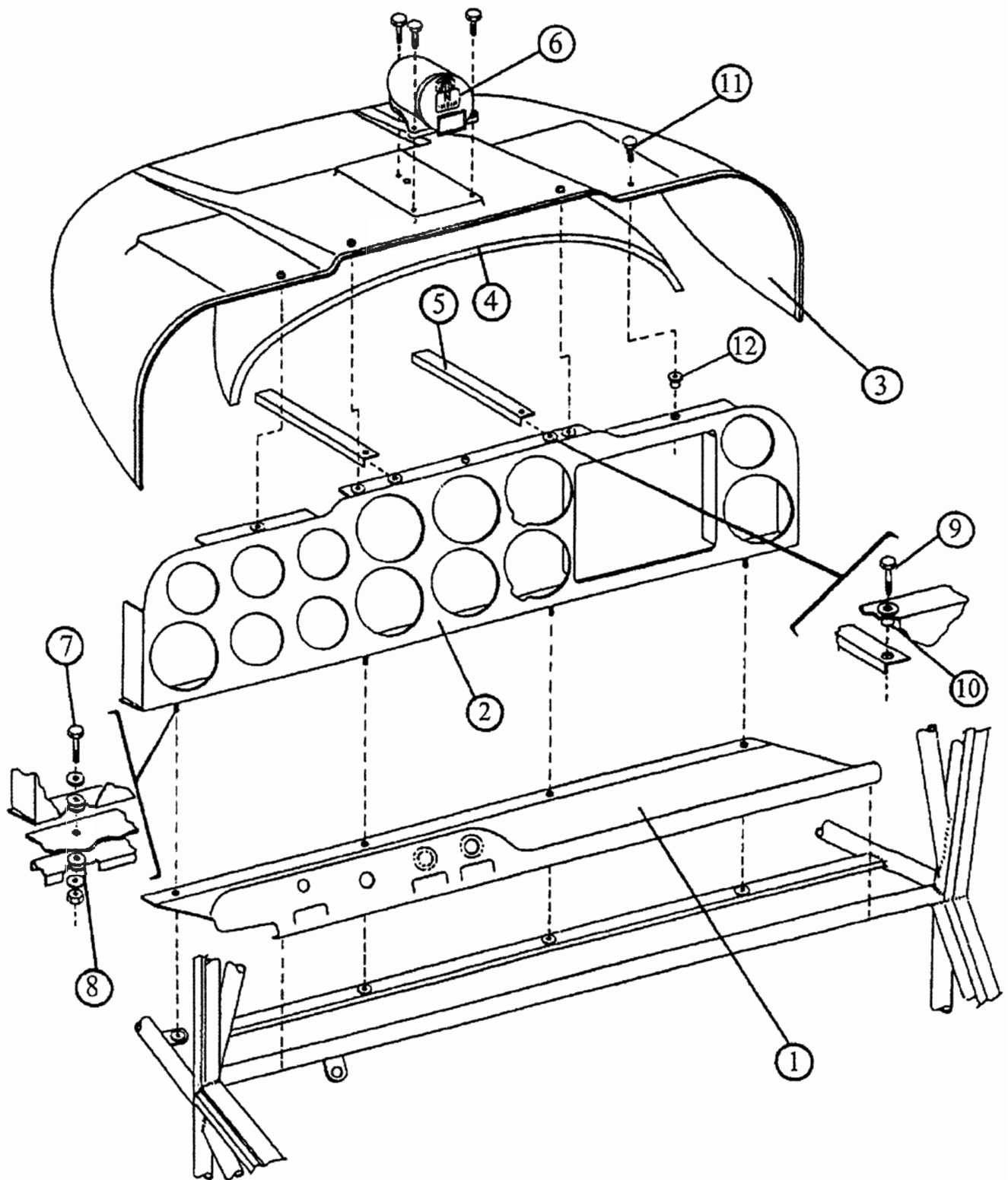
INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – CABIN CONTROL AND REAR SEAT HEATER	UNITS PER ASSY
FIG. 6	7-1415 7-1478 7-1524	Drawing – Installation – Fixed Equipment Drawing – Installation – Rear Seat Heater Drawing – Installation – Instrument Panel	8KCAB
1	3-1401	Sub-Assembly – Throttle and Carburetor Heat Control (complete)	1
2	1-9940	Control Arm – Carburetor Heat	2
3	2-715-2	Control Arm – Throttle	2
4	1-2373	Shaft Arm – Connecting	2
5	1-2381	Washer (leather)	3
6	1-2380	Plate – Friction Tab – Front Only	1
7	AN931-4-16	Grommet (rubber – MS34589-8)	2
8	AN970-A	Washer	2
9	AN4-11	Bolt – Attachment – Front Bolt – Attachment – Rear	11
10	AN960-416	Washer	2
11	AN310-4	Nut	2
12	AN380-2-2	Cotter Pin	6
13	3-1402-5	Control Cable	1
14	MS20392-3C15 AN960-416L AN380-3-3	Clevis Pin Washer Cotter Pin	1 2 1
15	AN393-11	Pin – Shaft Attachment (MS20392-2C11)	4
16	AN960-10L	Washer	4
17	AN960-10	Washer	4
18	AN380-2-2	Cotter Pin	4
19	AN3-3A AN742-4 1-2362 AN960-10 AN365-1032	Bolt – Casing to Frame Attachment Clamp Plate Washer Nut	1 1 1 1 1
20	2-2089	Control Cable – Throttle	1
21	A31800 AN315-3R	Clevis – Control to Arm Attachment Nut	1 1
22	1-9165-8	Control – Mixture	1
23	1-10399-1 AN3-3A MS21919-DF4 AN365-1032 1-2584 AN365-1032 1-10596	Control – Air Vent Door Bolt Clamp Nut Bolt Nut Placard – Air Vent	2 2 2 2 2 2 2
24	1-10557 1-10558 AD45BS AN960-6L	Door – Vent Hinge – Door Rivet Washer	2 2 12 12
25	1-9165-8 1-10616-2	Control – Front Seat Heater Placard – Front Seat Heat	1 1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
26	3-1582	Heater Box	1
	2-2156	Deflector	1
	AN515-8-10	Screw	3
	AN365-832	Nut	3
27	AN4-4A	Bolt – Cable to Frame Attachment	1
	AN365-428	Nut	1
	1-2577	Shim	1
28	1-2584	Bolt	1
	AN960-10L	Washer	2
	AN365-1032	Nut	1
29	1-10348-3	Control – Rear Seat Heater	1
	1-10616-1	Placard – Rear Seat Heat	1
30	MS21919-DG2	Clamp	1
	AS6-8-6SS	Screw	1
31	2-2122	Heater Box – Rear Seat	1
	AN515-8-8	Screw	2
	AN365-832	Nut	2
32	AN960-10	Washer	1
	AN380-2-2	Cotter Pin	1
33	3-985-22	Hose	1
	5912	Clamp – Hose to Valve Attachment	4
34	1-9706-2	Shroud	1
	AS6-8-10SS	Screw	3
	1-3670	Flange	1
	AS6-8-10SS	Screw	3
	5912	Clamp – Hose to Flange Attachment	1
35	4-1724	Sub-Assembly – Firewall	1
	4-1640	Firewall – Blank Only	1
	4-1723	Firewall – Mat Only	1
36	2-2265	Governor Control	1
	1-10126	Placard	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

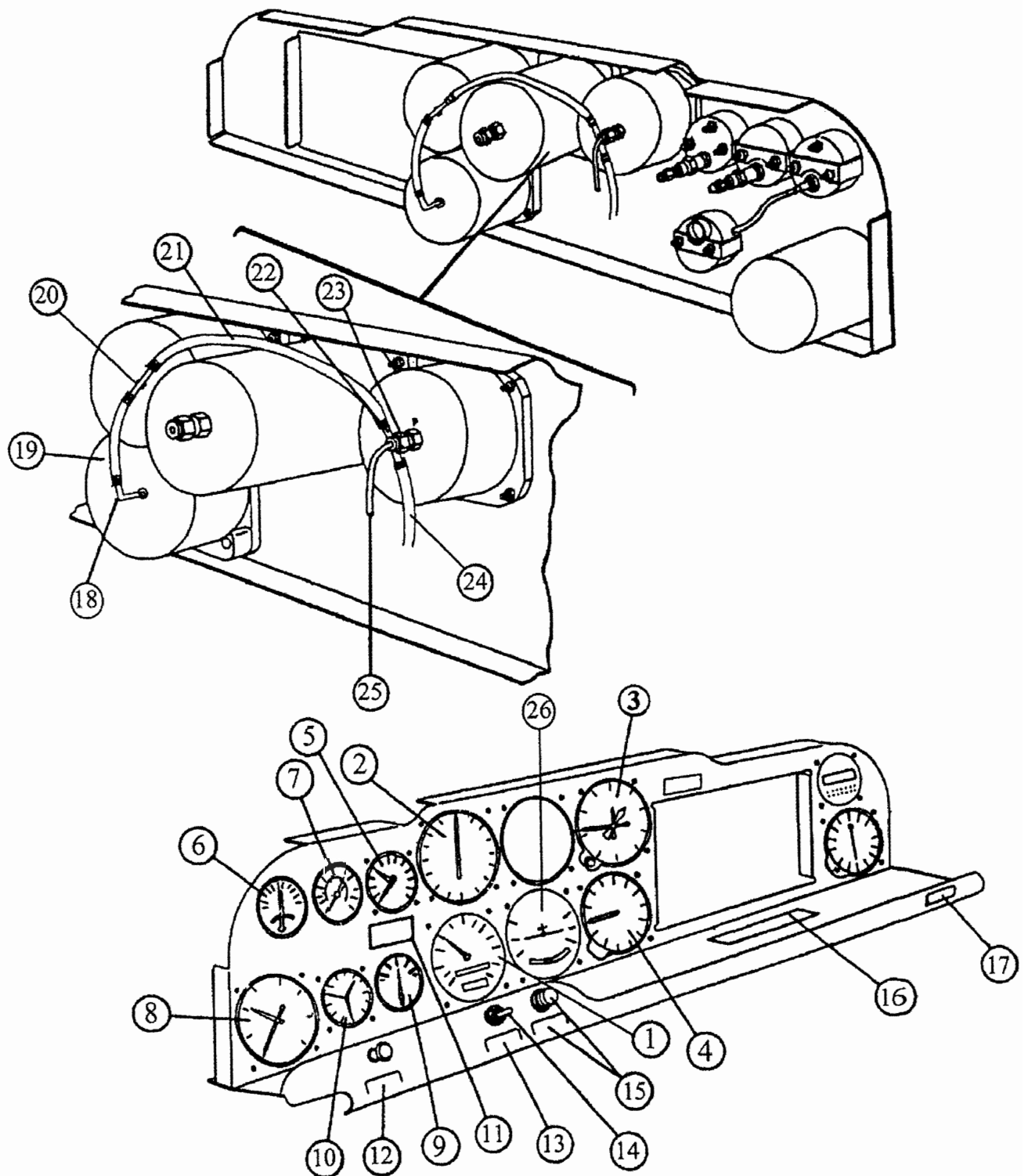
FIGURE 7
INSTALLATION - INSTRUMENT PANEL



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – INSTRUMENT PANEL 1978 AND UP	UNITS PER ASSY
FIG. 7	7-1524	Drawing – Installation – Instrument Panel	8KCAB
1	4-1734-3	Control Panel	1
2	5-390	Instrument Panel	1
3	4-1736-1	Cover – Instrument Panel	1
4	3-1610	Spacer – Instrument Panel Cover	1
5	1-8891-1	Support	2
6	C2400L4P	Compass (alternate PAI-700)	1
	MS35214-30	Screw	3
	MS35649-264B	Nut	3
	BA16-6	Terminal – Ring Terminal	1
	YZ18-H	Terminal – Disconnect	1
7	AN3-7A	Bolt	4
	AN960-3	Washer	4
	AN365-1032	Nut	4
8	AN931-3-9	Grommet	8
9	AN515B8R8	Screw	2
10	B-832	Well Nut	2
11	AN515B8R8	Screw	5
12	B-832	Well Nut	5

FIGURE 8
INSTALLATION - INSTRUMENT



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

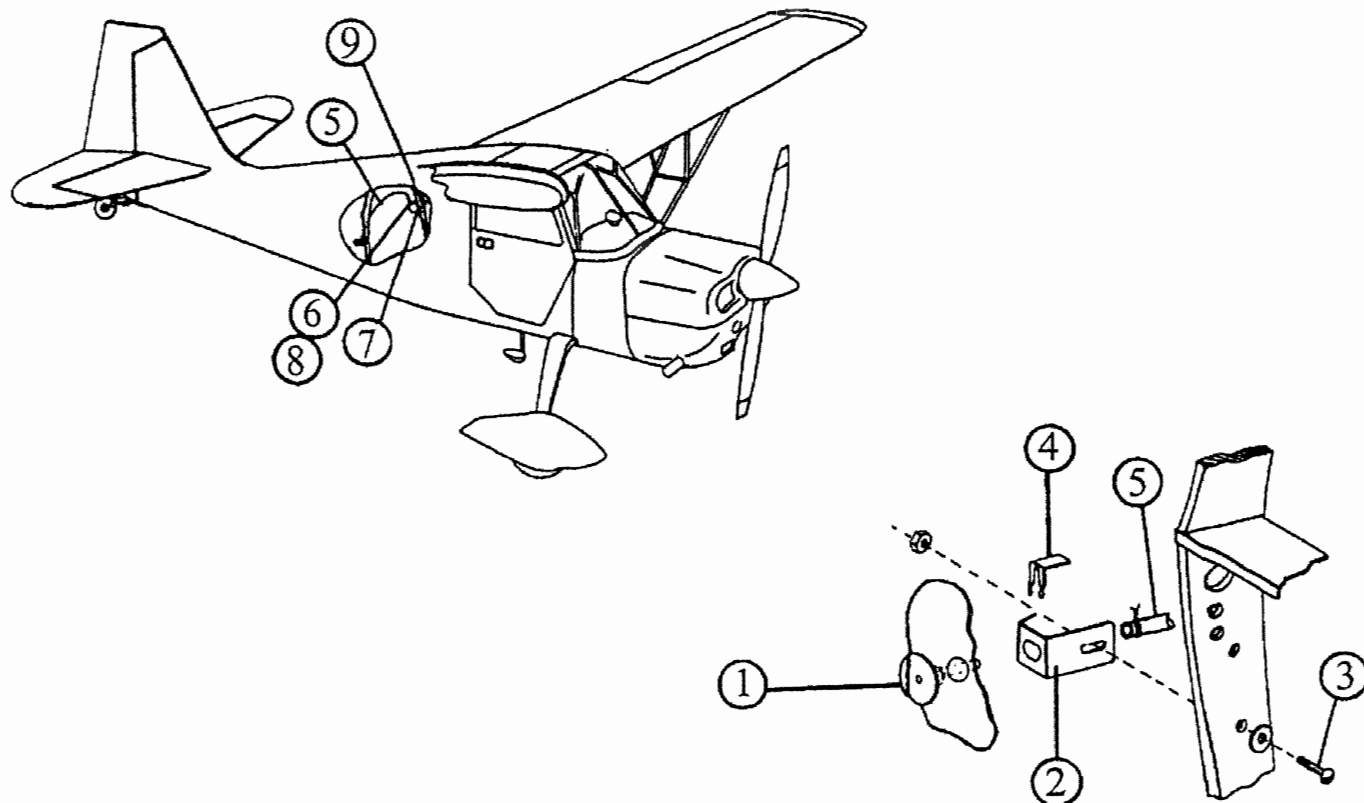
INDEX #	PART NUMBER	DESCRIPTION INSTALLATION - INSTRUMENT	UBITS PER ASSY
FIG. 8	7-1524	Drawing – Installation Instrument Panel	8KCAB
1		TACHOMETER	1
	MS35214-29	Screw	4
	MS35333-37	Lockwasher	4
	3122	Plastic Washer	4
	MS35649-265T	Nut (alternate AN340B6)	4
	15510-0255	Tachometer Shaft	1
	C1-10606	Decal – Instrument Marking – 180 HP	1
2		AIRSPEED INDICATOR	1
	MS35214-29	Screw	4
	MS3533	Lockwasher	4
	3-373122	Plastic Washer	4
	MS35649-265T	Nut (alternate AN340B6)	4
3		ALTIMETER – SENSITIVE	1
	MS35214-29	Screw	3
	MS3533	Lockwasher	3
	3-373122	Plastic Washer	3
	MS35649-265T	Nut (alternate AN340B6)	3
4		RATE OF CLIMB – OPTIONAL	1
	MS35214-29	Screw	3
	MS3533	Lockwasher	3
	3-373122	Plastic Washer	3
	MS35649-265T	Nut (alternate AN340B6)	3
5		ACCELEROMETER	1
	MS35214-29	Screw	4
	MS3533	Lockwasher	4
	3-373122	Plastic Washer	4
	MS35649-265T	Nut (alternate AN340B6)	4
6		OIL TEMPERATURE GAUGE	1
	1-10441	Decal – Instrument Marking (Scott – RN2100)	1
	103694	Gasket – Engine Attachment	1
	1-10291	Adapter – Engine Attachment	1
7		OIL PRESSURE GAUGE	1
	1-10440	Decal – Instrument Marking (Scott – RN2550)	1
	7-1524-15	Line – Instrument to Firewall	1
	AN818-3D	Nut	2
	AN819-3D	Sleeve	2
	AN816-3D	Nipple – Instrument	1
	AN910-1D	Coupling - Instrument	1
8		FUEL/MANIFOLD PRESSURE GAUGE	1
	MS35214-29	Screw	4
	MS35333-37	Lockwasher	4
	3122	Plastic Washer	4
	MS35649-265T	Nut (alternate AN340B6)	4
	1-2392-10	Fuel Line	1
	1-2392-9	Manifold Pressure Line	1
	68 X 2	Compression Fitting	2
9		AMMETER GAUGE	1
10		CLOCK – OPTIONAL	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIG. 8 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
11	1-10613	Placard – Maneuvering Speed	1
12	1-10612	Placard – Mixture	1
13	1-10618	Placard – Emergency Fuel Pump	1
14	11TS150-2	Switch – Emergency Fuel Pump	1
15	1-8980	Starter Switch	1
	1-10005	Placard – Starter	1
16	1-9889	Placard – Compass Calibrated With Radio On (required with radio)	1
17	1-10180	Placard – Parking Brake	1
18	62029	Elbow	1
19	7-1524-11	Line	1
20	62056	Tee (required with rate of climb)	1
	62029	Elbow (required with rate of climb)	1
21	7-1524-9	Line	1
22	62056	Tee	1
23	68F 3/16 x 1/8	Fitting	1
24	7-1524-13	Line	1
25	7-1519-11	Pitot Line	1
26		TURN AND BANK (electrical) (optional)	1
	MS35214-29	Screw	4
	MS35333-37	Lockwasher	4
	3122	Plastic Washer	4
	MS35649-265T	Nut (alternate AN340B6)	4

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

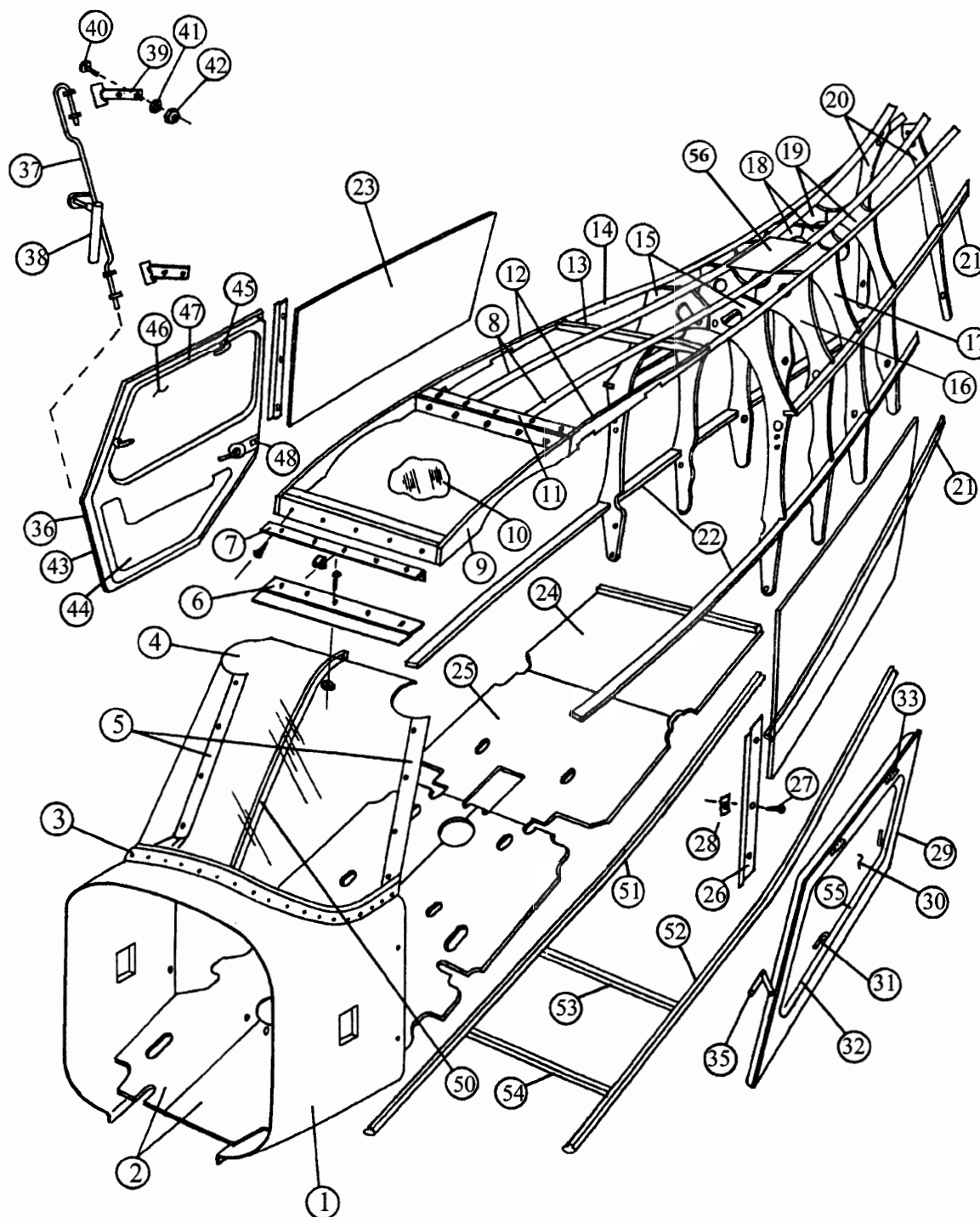
FIGURE 9
INSTALLATION – STATIC SYSTEM



INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – STATIC SYSTEM	UNITS PER ASSY
FIG. 9	7-1519	Drawing – Installation – Static System	8KCAB
1	11-0662	Static Port	2
2	1-10590	Support – Static Port	2
3	AN526-1032-10	Screw	2
	AN960-10L	Washer	2
	AN365-1032	Nut	2
4	C40785-017	Fastener	2
5	7-1519-10	Line – Tee to Right Port	1
6	62063	Tee – Plastic	1
7	7-1519	Line – Tee to Left Port	1
8	7-1519-9	Line – Tee to Aluminum – 6 line	1
9	7-1519-6	Line – Aluminum – Tee to Airspeed Static	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 10
INSTALLATION – PRIMARY FUSELAGE EQUIPMENT



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – PRIMARY FUSELAGE EQUIPMENT	UNITS PER ASSY
FIG. 10	4-1490 7-1269 7-1415 7-1416 7-1419	Drawing – Installation – Left Side Window Drawing – Installation – Interior Cabin Panels Drawing – Fixed Equipment Drawing – Fuselage Fairings Drawing – Installation – Windshield	8KCAB
1	7-1472-6 AS6-4-6FP 7-1472-3 A1776-4Z-1	Assembly Wraparound Flush Screws Insulation Wraparound Nut – Attachment to Firewall	1 20 1L/1R 20
2	5-296	Floorboard	1L/1R
3	4-1369 AD42BS	Retainer – Windshield to Wraparound Rivet – Attachment	1L/1R 32
4	7-1418 211	Windshield Moulding Rubber Windshield	1 1
5	2-1928 3-474-2 AN526-832-8 B-832	Rubber Strip Seal Windshield Retainer – Windshield Screw – Attachment Nut	1L/1R 1L/1R 10 10
6	2-2186 2-2002-1 AN526C-1032-12	Retainer – Windshield Top Greenhouse Rubber Seal Screw Attachment	1 1 5
7	2-1908 2-2081 AN515-8-14 AN960-10L AN365-832	Support – Windshield Greenhouse Support – Greenhouse Screw – Attachment Washer Nut	1 1 5 5 5
8	1-9992	Stringer – Greenhouse	2
9	3-1439 AN515-8-14 AN960-10L AN365-832	Forward – Top Former Greenhouse Screw – Attachment Washer Nut	1 6 6 6
10	7-1286 1/8" AN526-1032-10 AN521059-L3	Greenhouse Window Vinyl Beading Seal Screw – Aft Attachment Nut	1 1L/1R 5 5
11	4-1416 AN515-8-14 AN960-10L AN365-832 MS1059-L3	Retainer – Aft Greenhouse Screw – Attachment Washer Nut Nut	1 5 5 5 5
12	4-1492 AN515-8-14 AN960-10L AN365-832	Rib Screw Washer Nut	2 4 4 4
13	4-1495 AN515-8-14 AN960-10L AN365-832	Rib Screw Washer Nut	2 2 2 2
14	1-2366	Stringer	2

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 10 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
15	7-1259	Bulkhead – No. 1	2
	638	Eyelet – Upper Attachment	1
	276D	Eyelet – Lower Attachment	2
16	5-393	Bulkhead – No. 2	2
	638	Eyelet – Upper Attachment	1
	276D	Eyelet – Lower Attachment	2
17	4-555	Bulkhead – No. 3	2
	638	Eyelet – Upper Attachment	1
	276D	Eyelet – Lower Attachment	2
18	2-2046	Bulkhead – Auxiliary	1
	276D	Eyelet – Attachment	2
19	4-556	Bulkhead	2
	276D	Eyelet – Attachment	4
20	4-1541	Bulkhead	2
	276D	Eyelet – Attachment	4
21	1-2367-1	Stringer	3
22	1-2367-2	Stringer	2
	276D	Eyelet – Attachment	2
23	7-1256-1	Window – Side Rear	1L/1R
	CH-35	Rubber Extrusion	As Req'd
24	4-1378	Floorboard Assembly	1
	C54234-014-4	Clip	19
25	4-1032	Floorboard – Rear	1
26	1-9923-2	Retainer – Left Side	1
	1-9924	Retainer – Right Side	1
27	AN526-832-10	Screw – Attachment	6
28	C814-832-1	Nut	6
29	4-1486	Assembly – Left Window	1
30	7-1318	Window – Frame (3-1741 window frame alternate)	1
	4-1487	Window	1
	CH-35	Window Rubber Seal	As Req'd
	½"	Round Window Seal	As Req'd
31	2-2237	Handle	2
	1-9890-1	Pin – Attachment	2
	MU312-0075	Tension Washer	4
	AN960-516	Washer	As Req'd
	AN960-516L	Washer	As Req'd
	MS171498	Roll Pin	2
32	4-1486-1	Retainer – Window	1
	AD46BS	Rivet – Attachment	17
33	1-9849	Hinge	2
	AD42BS	Rivet – Attachment	12
35	1-9872	Hinge – Left Side Window	1
	AD42BS	Rivet – Attachment	1
36	4-1388	Installation – Door	1
	3/8"	Door Seal	As Req'd
37	4-744	Installation – Hinge Pin	1

AMERICAN CHAMPION AIRCRAFT CORPORATION

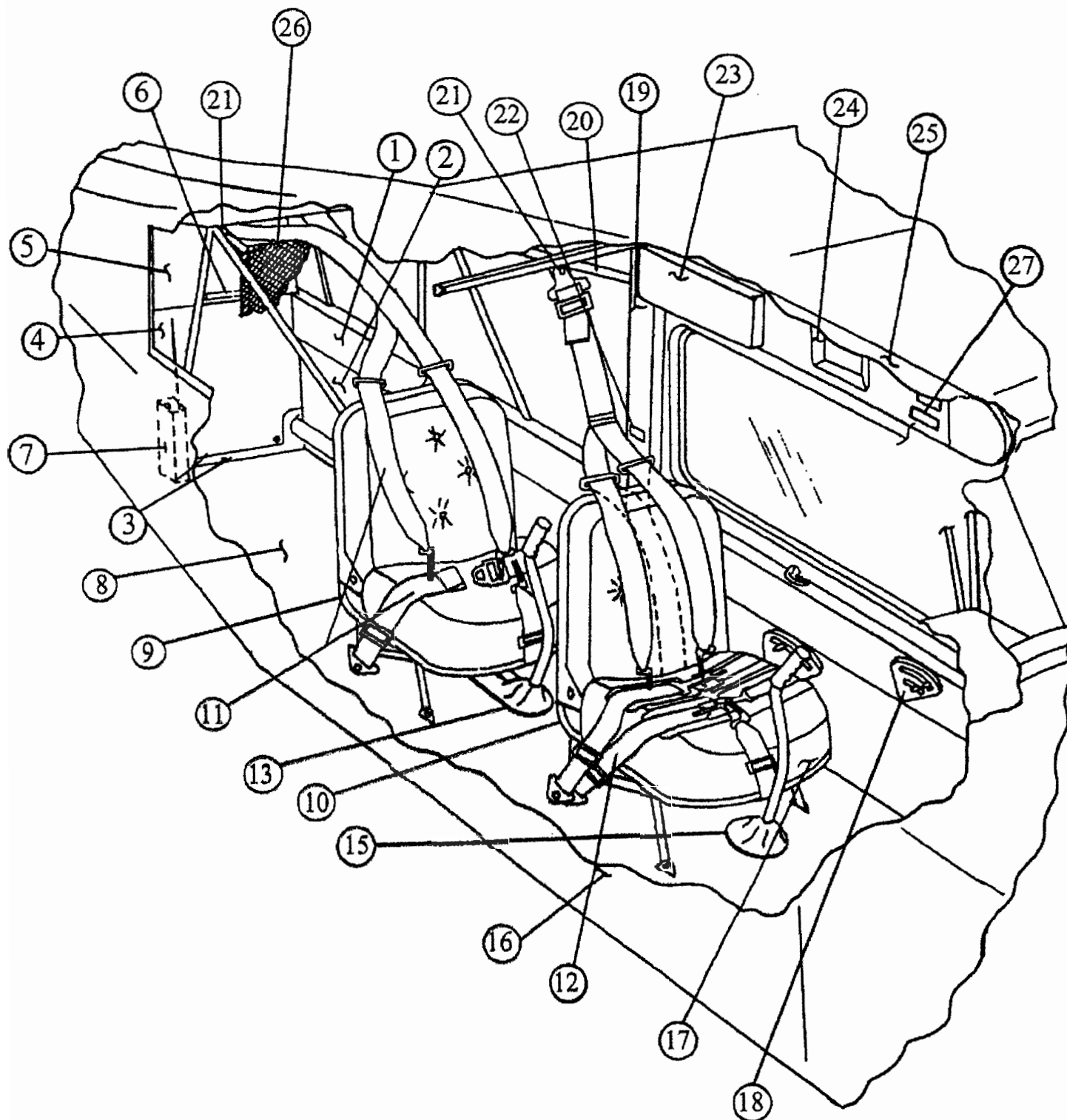
ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

FIGURE 10 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
38	1-2772	Bellcrank Assembly	1
	1-2773	Handle Assembly	1
	1-2177	Ring	1
	AN415A	Pin	1
	AN392-17	Clevis Pin	1
	AN380-2-2	Cotter Pin	1
39	1-9951	Door Hinge	2
40	AN526-1032-22	Screw	4
41	AN960-10L	Washer	4
42	AN365-1032	Nut	4
43	7-1270	Assembly – Door	1
	7-1265	Door – Fiberglass	1
44	3-1369	Door Pocket	1
	1202	Fastener – Attachment	7
45	2-2237	Handle – Assembly (alternate C60Z-6222916A)	2
	1-9890	Pin	2
46	4-1446	Window – Cabin Door	1
	CH-35	Rubber Extrusion	1
47	7-1270-2	Retainer – Door Window	1
	AD46BS	Rivet	17
48	2-2190	Door – Handle Assembly	1
50	7-1438	Assembly – Support Windshield	1
	1-10164	Fitting – Windshield Support	1
	AN520-8-16	Screw	2
	AN365-832	Nut	2
	AN960-10L	Washer	2
	1-10165	Support – Windshield Support – Wraparound	1
51	1-2376-1	Stringer	1
52	1-2376-2	Stringer	1
53	2-1965-2	Support	1
54	2-1965-2	Support	1
55	1-10550	Placard – Emergency Exit	1
56	4-1580	Bracket	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 11
INSTALLATION - INTERIOR TRIM AND SEATS



AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – INTERIOR TRIM AND SEATS	UNITS PER ASSY
FIG. 11	4-1708 4-1709 7-1269 7-1415 7-1499 3-1660	Drawing – Installation – Seat – Rear Drawing – Installation – Seat – Rear Wide Drawing – Installation – Interior Panels Drawing – Installation – Fixed Equipment Drawing – Installation Seat – Adjustable Front Drawing – Installation – Hooker Harness	8KCAB
1	5-297 4-1372	Panel – Interior Top – Left Side Panel – Interior Top – Right Side	1 1
2	5-295 1-9942 4-1371 1-9942	Panel – Interior Bottom – Left Side Spring Attachment Panel – Interior Bottom – Right Side Spring Attachment	1 6 1 2
3	3-1391	Panel – Interior – Aft – Lower	1
4	3-1390	Panel – Interior – Aft – Middle	1
5	4-1373 A8-75 AN507-8R10 AN601-10	Panel – Interior – Aft – Upper Rivnuts – Panel Attachment Screw Washer	1 6 6 6
6	1-9704-1	Placard – Baggage	1
7	3-1689 AK450 AN507-632R14 AN960-10 AN364-632 MS35214-12 MS3367-4	Installation – Emergency Locator Transmitter ELT Radio Screw Washer Nut Screw Strap	1 1 4 4 4 4 As Req'd
8	5-298-5 5-298-6 5-298-3 5-298-4	Carpet – Front Carpet – Rear Mat – Front Mat – Rear	1 1 1 1
9	4-1708 7-1500 AN4-10A AN4-5A AN960-416 AN365-428 4-1709 7-1501 AN4-6A 1-9982	Installation – Folding Seat – Rear Frame – Folding Seat – Rear Rear Bolt Front Bolt Washer Nut Installation – Wide Rear Seat Frame – Wide Rear Seat Bolt – Wide Rear Seat Lug – Seat Belt Extension	1 1 2 2 10 4 1 1 2 2

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIG. 11 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
10	7-1499	Installation – Adjustable Front Seat	1
	7-1513	Frame – Adjustable Front Seat	1
	AN4-5	Front Bolt	2
	AN960-416	Washer	2
	AN310-4	Nut	2
	AN380-2-2	Cotter Pin	2
	1-10534-1	Bushing	2
	1-10535	Washer	2
	AN960-416	Washer	6
	AN4-11	Rear Bolt	2
	AN960-416	Washer	2
	1-10535	Washer	8
	1-10534-1	Bushing	2
	AN310-4	Nut	2
	AN380-2-2	Cotter Pin	2
	AN4-11A	Bolt – Front and Rear Seat	4
	AN365-428	Nut – Front and Rear Seat	4
	AN960-416	Washer	8
11	206440	Standard Hooker Harness	1
	1-10238	Bushing (for standard hooker harness only)	4
12	1013030	Optional Competition Hooker Harness	1
13	3-1374	Boot Stick Rear	1
	3-1547	Cover – Rear Stick	1
14	1-10255	Pin Assembly – Quick Release Rear Seat	4
15	2-751	Boot Stick – Font	1
16	4-1753	Panel – Interior – Doorway	1
	1-9927	Molding – Door – Bottom	1
	1-9925	Molding – Door – Top	1
17	4-1504-2	Cushion – Seat Bottom	2
	4-1504-1	Cushion – Seat Back	2
	*4-1754	Cushion – Seat Bottom – Wide Rear Seat	2
	*4-1755	Cushion – Seat Back – Wide Rear Seat	2
18	2-1883	Quadrant – Throttle	1Front/1Rear
	1-10147	Placard – Carburetor Heat and Throttle Control	1Front/1Rear
	AN526-832-16	Screw	2
	C420-832-1	Nut	2
	1-9186	Knob – Throttle	2
	1-596	Knob – Carburetor Heat	2
	AD42BS	Rivet	2Front/2Rear
19	4-1375	Cover – Aileron Cable	1L/1R
	AN526-832-10	Screw	6
	C365-832	Nut	6
	AS6-4-6SS	Screw	4
20	2-1877	Molding – Upper Rear Window	1L/1R
21	AN4-13A	SHOULDER STRAP ATTACHMENT – BOTH HARNESSSES Bolt	2
	AN960-416	Washer	4
	AN365-428	Nut	2
22	1-10267	Placard – Secure Seat During Solo Flight	1

AMERICAN CHAMPION AIRCRAFT CORPORATION

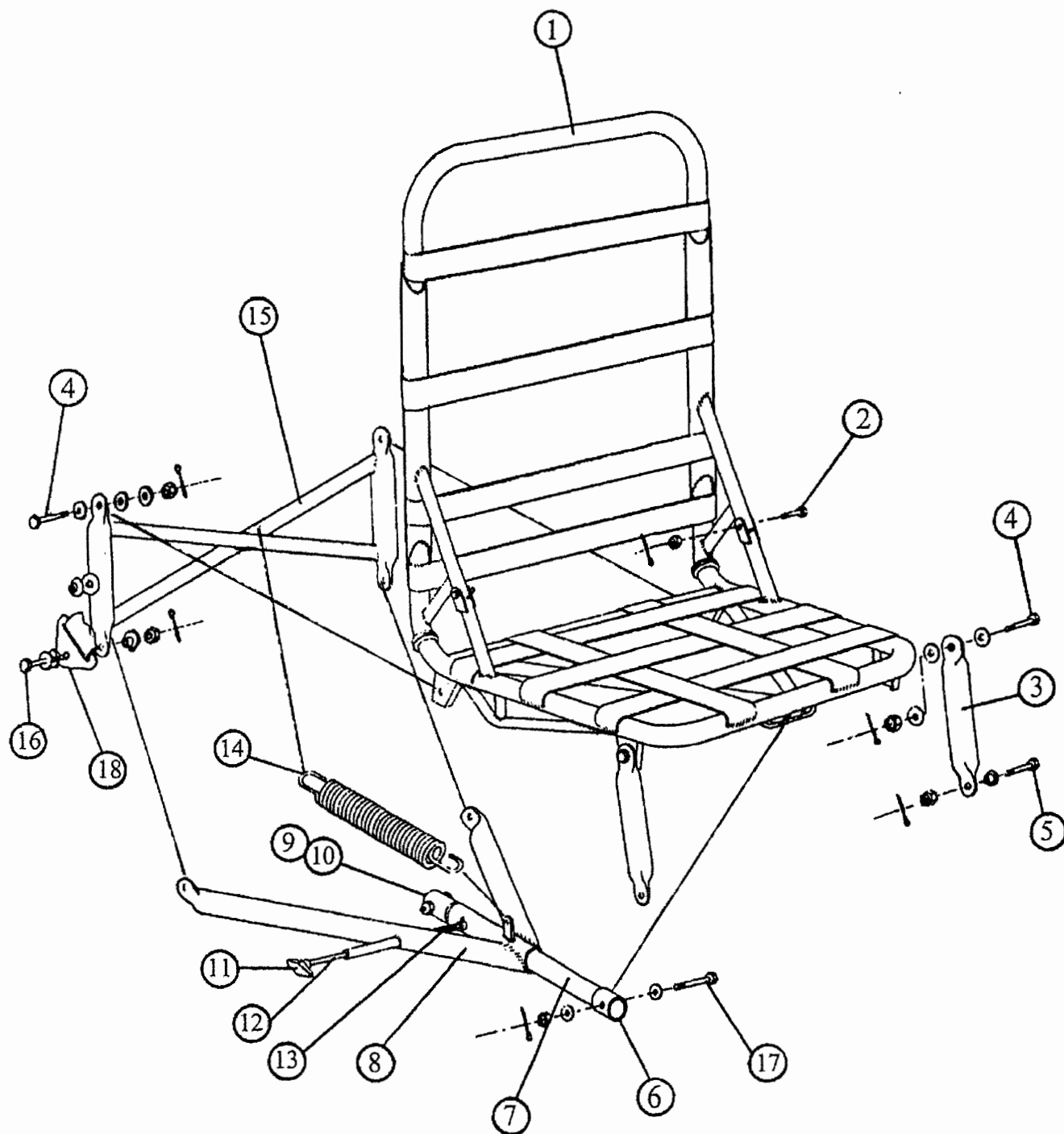
ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

FIG. 11 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
23	4-2001	Sub-Assembly	1
	3-1682	Electrical Panel	1
24	3-1389	Tunnel Fuel Gauge	1
25	4-1429-6	Headliner – Greenhouse	1
26	3-1475	Baggage Net – Restricting	1
27	1-10614	Placard – Operating Limitations	1
	1-10149	Placard – Operating Limitations	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 12
INSTALLATION - ADJUSTABLE SEAT



AMERICAN CHAMPION AIRCRAFT CORPORATION

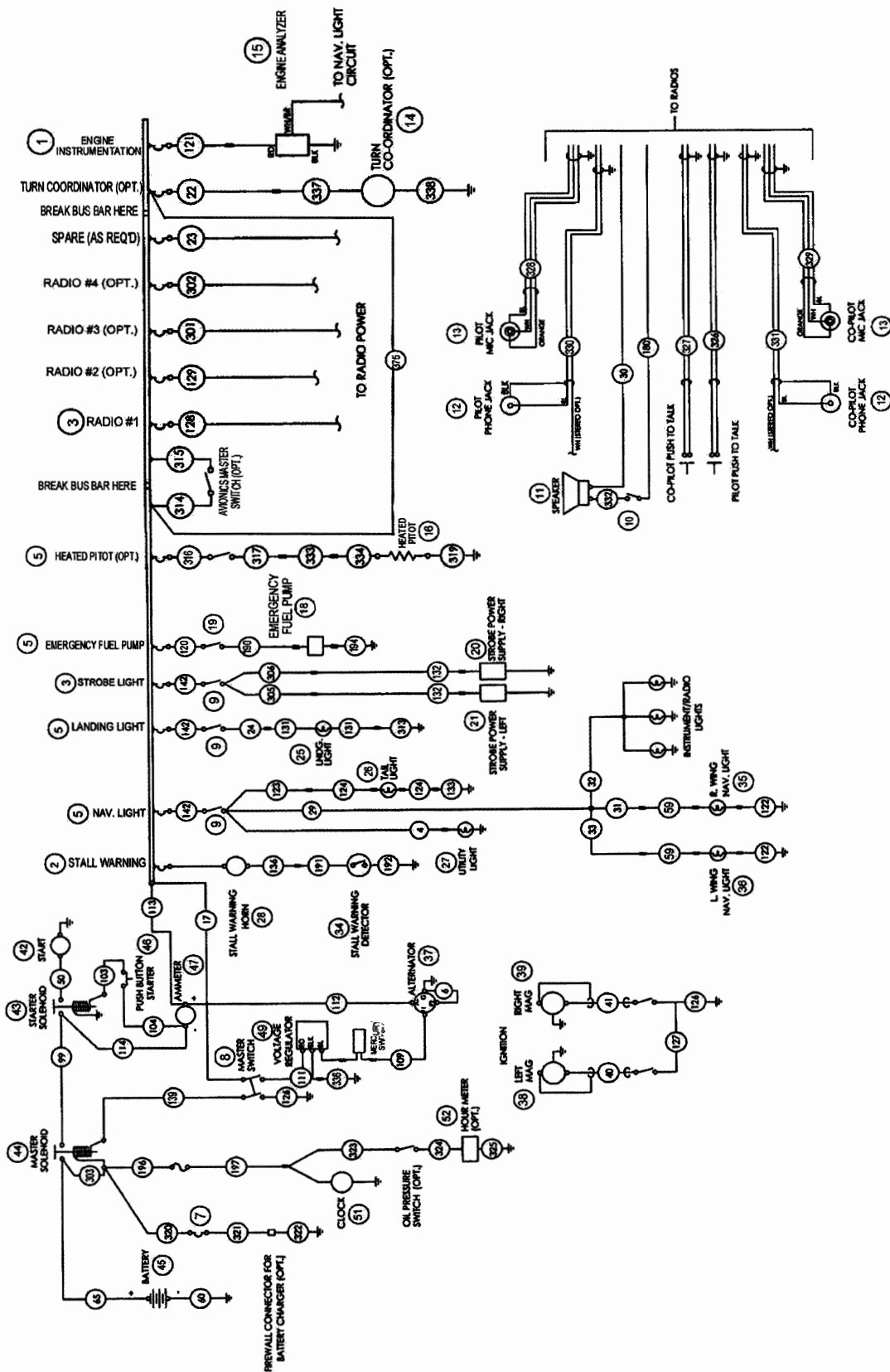
ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – ADJUSTABLE SEATS	UNITS PER ASSY
FIG. 12	7-1499	Drawing – Installation – Adjustable Front Seat	8KCAB
1	7-1513	Seat Frame	1
2	AN4-11	Bolt	2
	AN960-416L	Washer	2
	AN310-4	Nut	2
	AN380-2-2	Cotter Pin	2
3	1-10503-1	Leg	2
4	AN4-5	Bolt – Leg Attachment – Upper	4
	AN960-416	Washer	4
	1-10534-1	Bushing	4
	1-10535	Washer	4
	AN310-4	Nut	4
	AN380-2-2	Cotter Pin	4
5	AN4-5	Bolt – Leg Attachment – Lower Front	2
	AN960-416	Washer	2
	1-10534-1	Bushing	2
	1-10535	Washer	2
	AN310-4	Nut	2
	AN380-2-2	Cotter Pin	2
6	1-10521	Stop	1
7	1-10511	Adjustable Tube	1
8	4-1705	Seat Adjustable Mechanism	1
9	1-10521	Spacer	1
10	AN4-11A	Bolt – Spacer Attachment	1
	AN365-428	Nut	1
11	3090-H	Handle	1
12	1-10525	Shaft	1
13	1-10524	Spring	1
	AN960-416	Washer	2
	MS171498	Roll Pin	1
14	2-1525	Spring	1
15	3-1594	Rear Leg Assembly	1
16	AN4-10	Bolt – Leg Attachment – Lower Rear and Lap Belt	2
	AN960-416	Washer	2
	1-10534-1	Bushing (for standard hooker harness only)	2
	1-10535	Washer	2
	AN310-4	Nut	2
	1-10534-2	Bushing	2
	AN380-2-2	Cotter Pin	2
17	AN4-12	Bolt – Stop Tube Attachment	1
	AN960-416L	Washer	2
	AN310-4	Nut	1
	AN380-2-2	Cotter Pin	1

DECATHLON 8KCAB PARTS MANUAL

PRIOR TO 860-2000



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION ELECTRICAL EQUIPMENT AND SCHEMATIC A	UNITS PER ASSY
FIG. 13	4-1791	Drawing – Schematic Electrical System	8KCAB
1	1601-013-100	Circuit Breaker – 1 Amp (optional)	1
2	1601-013-200	Circuit Breaker – 2 Amp	1
3	1610-041-050	Circuit Breaker – 5 Amp	1
4	4	Wire – Utility Light	1
5	1610-041-100	Circuit Breaker – 10 Amp	4
6	6	Wire – Alternator – Jumper	1
7	1610-041-075	Circuit Breaker – 7.5 Amp (optional)	1
8	1-9152-1	Master Switch	1
9	1-9152-2	Switch	5
10	10TC220	Switch	1
11	DC22S-4FR	Speaker	1
12	C-12B	Phone Jack	2
13	C-11	Mic Jack	2
14	1394T100-7Z	Turn Coordinator	1
15	SR-8	Smart Scanner (optional)	1
16	PH502-12	Heated Pitot (optional)	1
17	17	Wire – Bus Bar to Master Switch	1
18	B-8110-G	Style “J” Emergency Fuel Pump	1
19	11TS150-2	Emergency Fuel Pump Switch	1
20	152-0007A	Strobe Power Supply – Right	1
21	153-0005	Strobe Power Supply – Left	1
22	22	Wire – Turn Coordinator	1
23	23	Wire – Spare	1
25	4509	Landing Light	1
26	A555-V-14V	Navigation Light Assembly – Tail	1
27	S1990/12V	Utility Light	1
28	16005057	Stall Warning Horn	1
29	29	Wire – Navigation Light	1
30	30	Wire – Speaker to Radio	1
31	31	Wire – Navigation Light – Right	1
32	32	Wire – Instrument Lights	1
33	33	Wire – Navigation Light – Left	1
34	2-2238	Stall Warning Detector	1
35	W1285PG	Navigation Light Assembly – Right	1
36	W1285PR	Navigation Light Assembly – Left	1
37	ALY-8420LS	Alternator	1
38	4371	Left Magneto	1
39	4371	Right Magneto	1
40	40	Wire – Left Magneto	1
41	41	Wire – Right Magneto	1
42	149-12LS	Starter	1
43	SAZ-4201E	Starter Solenoid	1
44	SAS-4201	Master Solenoid	1
45	RG-25	Battery	1
46	1-8990	Starter Switch	1
47	D1-211-5106	Ammeter	1
49	B-00371-14	Voltage Regulator	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

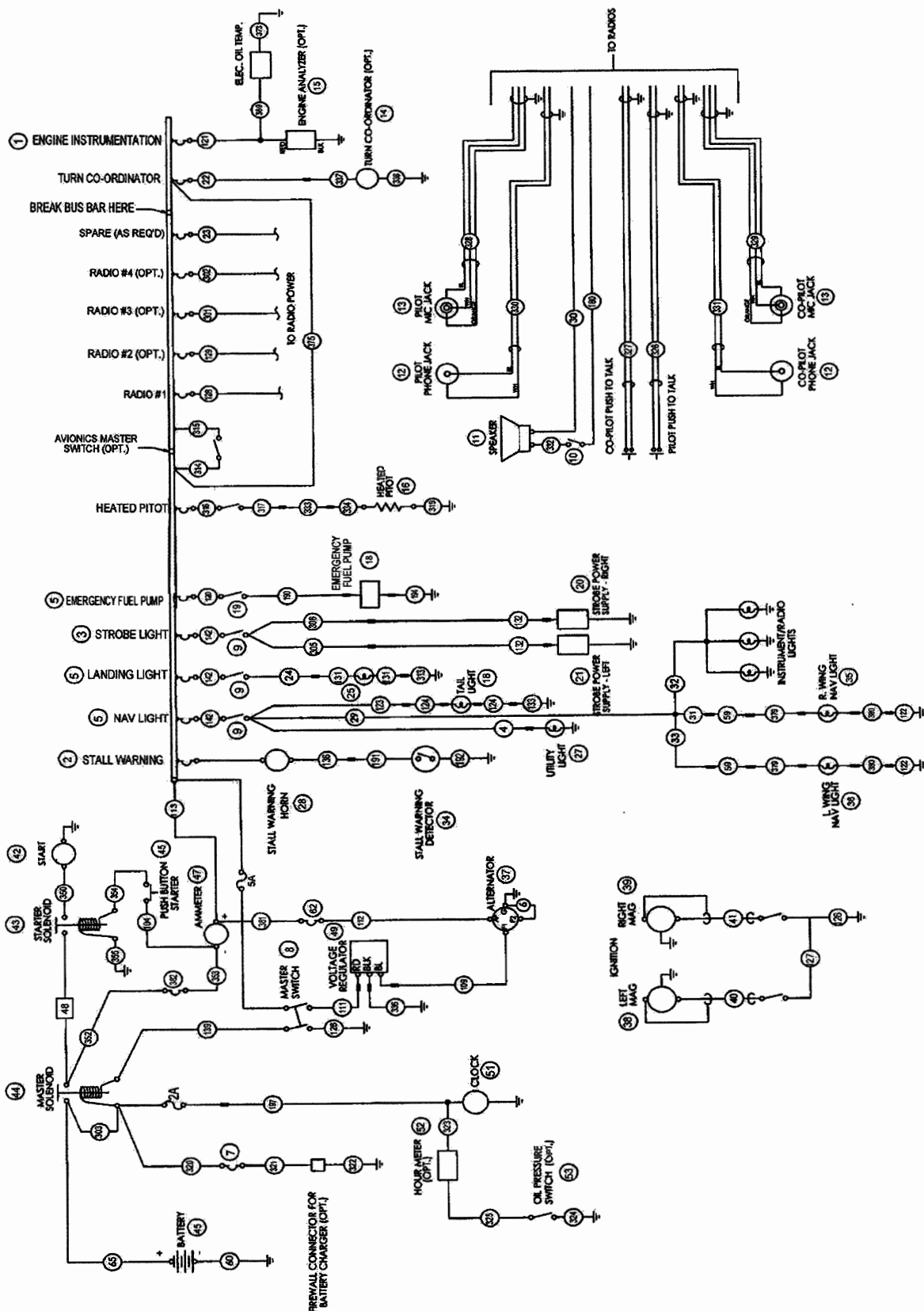
FIG.13 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
50	50	Wire – Starter Relay to Starter	1
51	D1-312-5036	Clock	1
52	102033	Hour Meter (optional)	1
59	59	Wire – Navigation Light	2
60	60	Wire – Battery to Ground	1
65	65	Wire – Master Solenoid to Battery	1
99	99	Wire – Battery Relay to Starter Relay	1
103	103	Wire – Starter Switch to Starter Relay	1
104	104	Wire – Ammeter to Starter Switch	1
109	109	Wire – Alternator to Alternator	1
111	111	Wire – Master Switch to Voltage Regulator	1
112	112	Wire – Ammeter to Alternator	1
113	113	Wire – Bus Bar to Ammeter	1
114	114	Wire – Ammeter to Starter Relay	1
120	120	Wire – Emergency Fuel Pump	1
121	121	Wire – Smart Scanner	1
122	122	Wire – Navigation Light Ground	2
123	123	Wire – Navigation Light – Tail	1
124	124	Wire – Navigation Light – Tail	1
126	126	Wire – Magneto – Ground	1
127	127	Wire – Magneto – Jumper	1
128	128	Wire – Radio #1	1
129	129	Wire – Radio #2	1
131	131	Wire – Landing Light	1
132	132	Wire – Strobe Power Supply	2
133	133	Wire – Navigation Light – Ground	1
136	136	Wire – Stall Warning	1
139	139	Wire – Master Switch to Master Relay	1
142	142	Wire – Bus Bar to Switch	3
180	180	Wire – Switch to Radio	1
189	189	Wire – Stall Warning	1
190	190	Wire – Emergency Fuel Pump	1
191	191	Wire – Stall Warning	1
192	192	Wire – Stall Warning – Ground	1
194	194	Wire – Emergency Fuel Pump - Ground	1
196	196	Wire – Clock	1
197	197	Wire – Clock	1
222	222	Wire – Strobe Power Supply to Ground	2
301	301	Wire – Radio #3	1
302	302	Wire – Radio #4	1
303	303	Wire – Clock to Battery	1
305	305	Wire – Strobe Power Supply – Right	1
306	306	Wire – Strobe Power Supply – Left	1
313	313	Wire – Landing Light to Ground	1
314	314	Wire – Avionics Master Switch (optional)	1
315	315	Wire – Avionics Master Switch (optional)	1
316	316	Wire – Heated Pitot (optional)	1
318	318	Wire – Heated Pitot (optional)	1

AMERICAN CHAMPION AIRCRAFT CORPORATION**ROCHESTER, WI 53167****DECATHLON 8KCAB PARTS MANUAL**

FIG.13 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
319	319	Wire – Heated Pitot – Ground	1
320	320	Wire – Battery Charger	1
321	321	Wire – Batter Charger	1
322	322	Wire – Battery Charger Ground	1
323	323	Wire – Hour Meter	1
324	324	Wire – Hour Meter	1
325	325	Wire – Hour Meter – Ground	1
328	328	Wire – Pilot Mic Jack	1
329	329	Wire – Co-Pilot Mic Jack	1
330	330	Wire – Pilot Phone Jack	1
331	331	Wire – Co-Pilot Phone Jack	1
332	332	Wire – Speaker to Switch	1
333	333	Wire – Heated Pitot (optional)	1
334	334	Wire – Heated Pitot (optional)	1

**AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL**

**FIGURE 14
ELECTRICAL EQUIPMENT AND SCHEMATIC (B)
860-2000 AND UP**



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION ELECTRICAL EQUIPMENT AND SCHEMATIC B	UNITS PER ASSY
FIG. 14	4-1791	Drawing – Schematic Electrical System	8KCAB
1	1601-013-100	Circuit Breaker – 1 Amp (optional)	1
2	1601-013-200	Circuit Breaker – 2 Amp	1
3	1610-041-050	Circuit Breaker – 5 Amp	1
4	4	Wire – Utility Light	1
5	1610-041-100	Circuit Breaker – 10 Amp	4
6	6	Wire – Alternator – Jumper	1
7	1610-041-075	Circuit Breaker – 7.5 Amp (optional)	1
8	1-9152-1	Master Switch	1
9	1-9152-2	Switch	5
10	10TC220	Switch	1
11	DC22S-4FR	Speaker	1
12	C-12B	Phone Jack	2
13	C-11	Mic Jack	2
14	1394T100-7Z	Turn Coordinator	1
15	SR-8	Smart Scanner (optional)	1
16	PH502-12	Heated Pitot (optional)	1
17	17	Wire – Bus Bar to Master Switch	1
18	B-8110-G	Style “J” Emergency Fuel Pump	1
19	11TS150-2	Emergency Fuel Pump Switch	1
20	152-0007A	Strobe Power Supply – Right	1
21	153-0005	Strobe Power Supply – Left	1
22	22	Wire – Turn Coordinator	1
23	23	Wire – Spare	1
25	4509	Landing Light	1
26	A555-V-14V	Navigation Light Assembly – Tail	1
27	S1990/12V	Utility Light	1
28	16005057	Stall Warning Horn	1
29	29	Wire – Navigation Light	1
30	30	Wire – Speaker to Radio	1
31	31	Wire – Navigation Light – Right	1
32	32	Wire – Instrument Lights	1
33	33	Wire – Navigation Light – Left	1
34	2-2238	Stall Warning Detector	1
35	W1285PG	Navigation Light Assembly – Right	1
36	W1285PR	Navigation Light Assembly – Left	1
37	ALY-8420LS	Alternator	1
38	4371	Left Magneto	1
39	4371	Right Magneto	1
40	40	Wire – Left Magneto	1
41	41	Wire – Right Magneto	1
42	149-12LS	Starter	1
43	SAZ-4201E	Starter Solenoid	1
44	SAS-4201	Master Solenoid	1
45	RG-25	Battery	1
46	1-8990	Starter Switch	1
47	D1-211-5106	Ammeter	1
48	11-0903	Electrical Strap	1

**AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL**

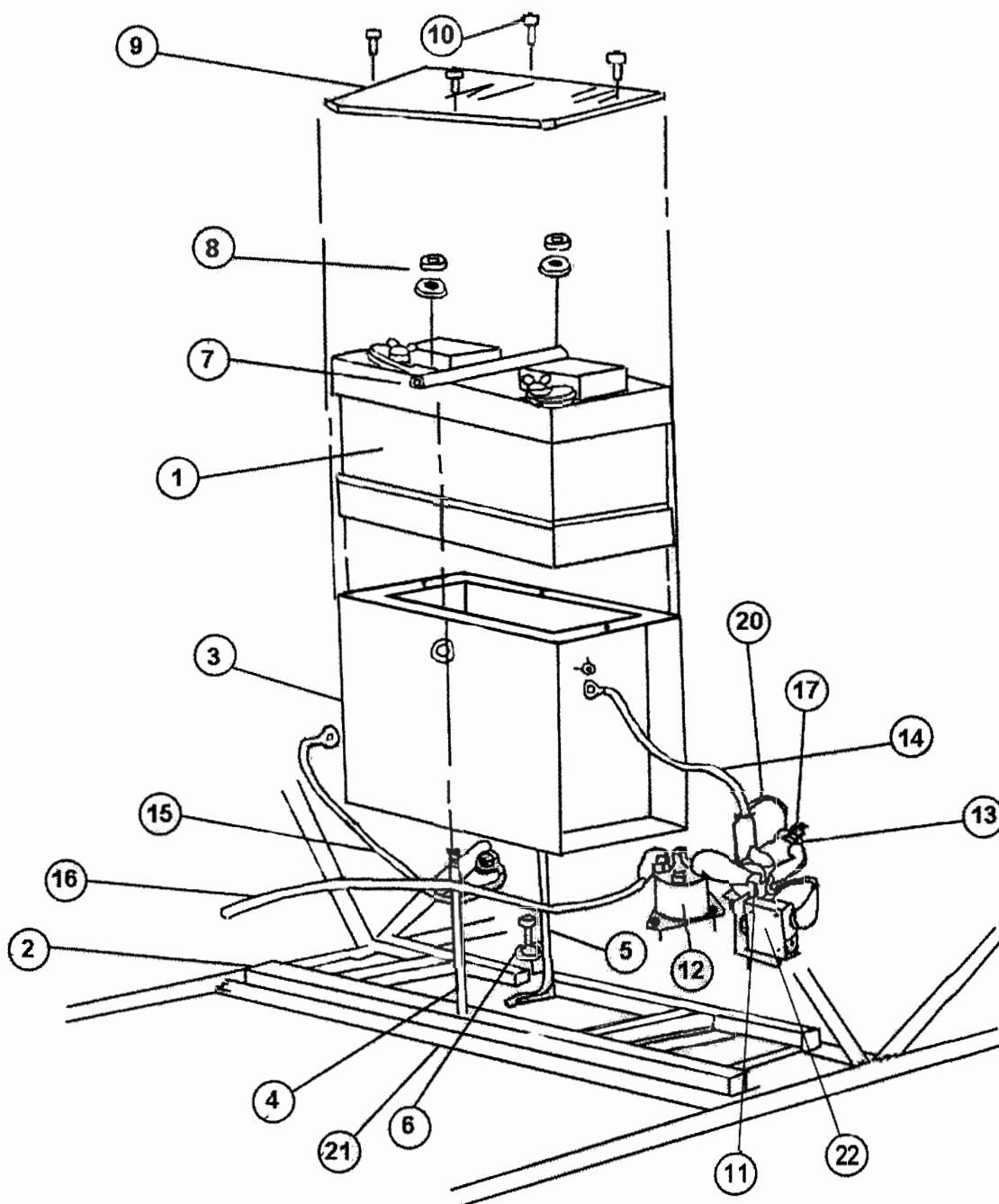
FIG.14 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
49	B-00371-14	Voltage Regulator	1
51	D1-312-5036	Clock	1
52	102033	Hour Meter (optional)	1
53	76575-4	Oil Pressure Switch	1
59	59	Wire – Navigation Light	2
60	60	Wire – Battery to Ground	1
65	65	Wire – Master Solenoid to Battery	1
104	104	Wire – Ammeter to Starter Switch	1
109	109	Wire – Alternator to Alternator	1
111	111	Wire – Master Switch to Voltage Regulator	1
112	112	Wire – Ammeter to Alternator	1
113	113	Wire – Bus Bar to Ammeter	1
120	120	Wire – Emergency Fuel Pump	1
121	121	Wire – Smart Scanner	1
122	122	Wire – Navigation Light Ground	2
123	123	Wire – Navigation Light – Tail	1
124	124	Wire – Navigation Light – Tail	1
126	126	Wire – Magneto – Ground	1
127	127	Wire – Magneto – Jumper	1
128	128	Wire – Radio #1	1
129	129	Wire – Radio #2	1
131	131	Wire – Landing Light	1
132	132	Wire – Strobe Power Supply	2
133	133	Wire – Navigation Light – Ground	1
136	136	Wire – Stall Warning	1
139	139	Wire – Master Switch to Master Relay	1
142	142	Wire – Bus Bar to Switch	3
180	180	Wire – Switch to Radio	1
189	189	Wire – Stall Warning	1
190	190	Wire – Emergency Fuel Pump	1
191	191	Wire – Stall Warning	1
192	192	Wire – Stall Warning – Ground	1
194	194	Wire – Emergency Fuel Pump – Ground	2
196	196	Wire – Clock	1
197	197	Wire – Clock	1
222	222	Wire – Strobe Power Supply to Ground	2
301	301	Wire – Radio #3	1
302	302	Wire – Radio #4	1
303	303	Wire – Clock to Battery	1
305	305	Wire – Strobe Power Supply – Right	1
306	306	Wire – Strobe Power Supply – Left	1
313	313	Wire – Landing Light to Ground	1
314	314	Wire – Avionics Master Switch (optional)	1
315	315	Wire – Avionics Master Switch (optional)	1
316	316	Wire – Heated Pitot (optional)	1
318	318	Wire – Heated Pitot (optional)	1
319	319	Wire – Heated Pitot – Ground	1
320	320	Wire – Battery Charger	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIG. 14 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
321	321	Wire – Batter Charger	1
322	322	Wire – Battery Charger Ground	1
323	323	Wire – Hour Meter	1
324	324	Wire – Hour Meter	1
325	325	Wire – Hour Meter – Ground	1
328	328	Wire – Pilot Mic Jack	1
329	329	Wire – Co-Pilot Mic Jack	1
330	330	Wire – Pilot Phone Jack	1
331	331	Wire – Co-Pilot Phone Jack	1
332	332	Wire – Speaker to Switch	1
333	333	Wire – Heated Pitot (optional)	1
334	334	Wire – Heated Pitot (optional)	1
336	336	Wire – Voltage Regulator – Ground	1
337	337	Wire – Turn Coordinator	1
338	338	Wire – Turn Coordinator – Ground	1
326	326	Wire – Pilot Push to Talk	1
327	327	Wire – Co-pilot Push to Talk	1
350	350	Wire – Starter	1
353	353	Wire	1
354	354	Wire – Starter Solenoid	1
355	355	Wire – Starter Solenoid – Ground	1
366	366	Wire	1
369	369	Wire – Oil Temp	1
373	373	Wire – Oil Temp – Ground	1
375	375	Wire – Avionics Master Switch (optional)	1
378	378	Wire – Stall Warning Horn	1
379	379	Wire – Nav Light	1
380	380	Wire – Nav Light Ground	1
381	1648-009-060	Circuit Breaker – 60 Amp.	1
382	1648-009-070	Circuit Breaker – 70 Amp.	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 15
INSTALLATION - BATTERY



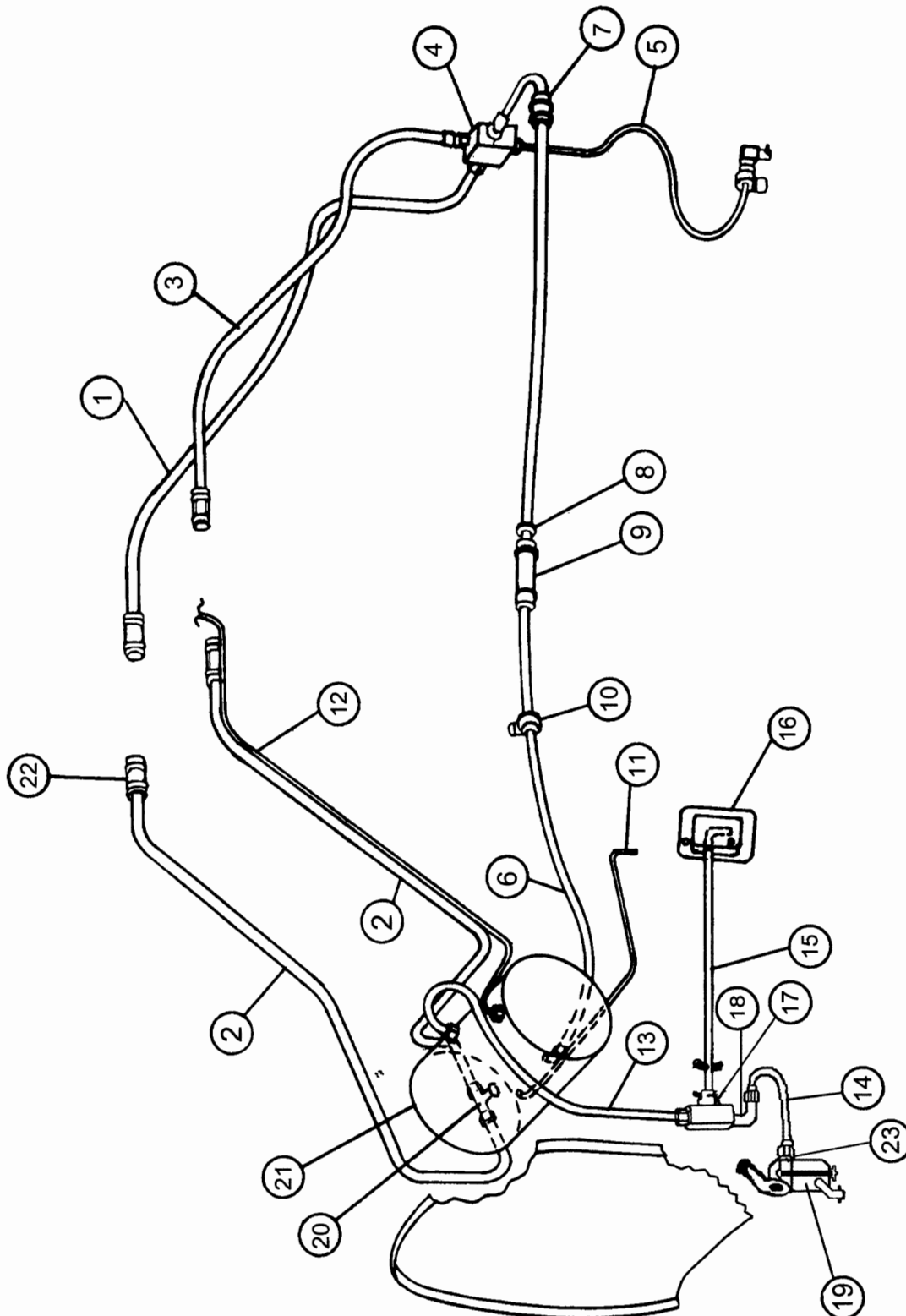
AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – BATTERY	UNITS PER ASSY
FIG. 15	4-1782	Drawing – Installation – Battery and Box	8KCAB
1	RG-25	Battery	1
2	4-1600	Battery Board	1
3	4-1995	Battery Box	1
4	1-10283	Rod – Hold Down	1
5	1-10282-2	Rod Assembly – Hold Down	1
6	AN3-4A	Bolt – Fuselage Attachment	1
	AN960-10	Washer	1
7	11-0852	Tube – Hold Down	1
	11-0722-2	Rubber Strip	2
8	AN365-1032	Nut – Rod Attachment – Hold Down	2
	AN960-10	Washer	2
9	2-2240	Cover	1
10	AN526-1032R8	Screw	4
11	11-0903	Electrical Strap	1
12	SAZ4201E	Starter Solenoid	1
13	SAS4201	Battery Solenoid	1
	AN4-4A	Bolt – Solenoid Attachment	2
	AN970-4	Washer	2
	AN364-428	Nut	2
14	65	Cable – Battery to Solenoid	1
	AN4-5A	Bolt	1
	AN960-416	Washer	1
	AN365-428	Nut	1
	MS25171-35	Nipple	1
15	60	Cable – Battery to Ground	1
	AN5-5A	Bolt – Fuselage Attachment	1
	AN960-516	Washer	2
	AN365-524	Nut	1
16	350	Cable – Solenoid to Starter	1
	MS21919-DF6	Clamp – Airframe Attachment	2
	AN3-3A	Bolt	2
	AN365-1032	Nut	2
	MS25171-35	Nipple	1
17	MS25171-15	Nipple	2
18	196	Wire	1
19	139	Wire	1
20	303	Wire	1
21	AD32BS	Rivets – Rod Hold Down to Frame Attachment (not shown)	4
	MS21059L3	Plate Nut	2
22	1648-009-070	Circuit Breaker	1

FIGURE 16
INSTALLATION - FUSELAGE FUEL SYSTEM



AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

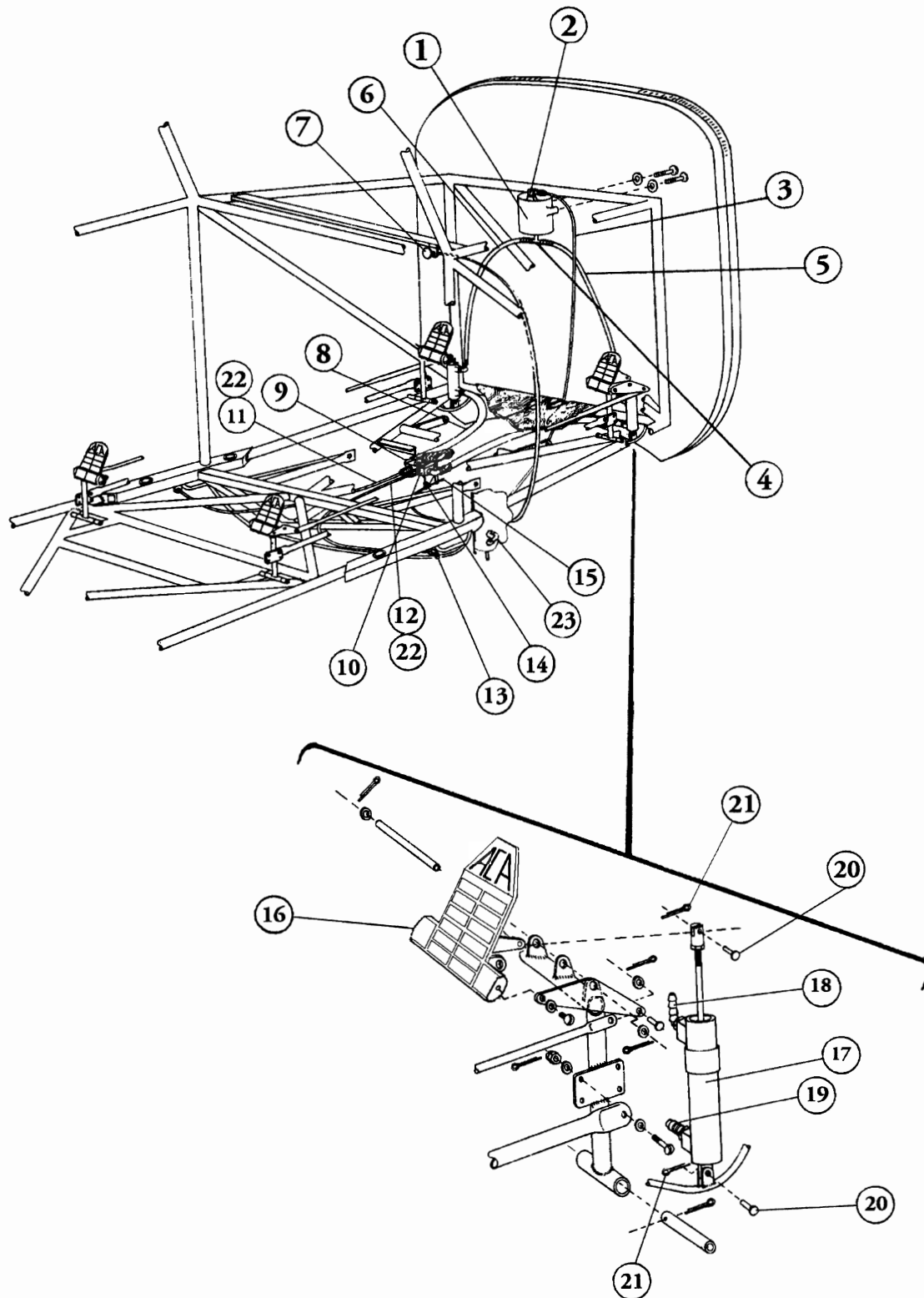
INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – FUSELAGE FUEL SYSTEM	UNITS PER ASSY
FIG.16	7-1414	Drawing – Installation – Inverted Fuel System	8KCAB
1	7-1414-3	Fuel Line	1
2	7-1414-4	Fuel Line	2
	7-1476-5	Vinyl Covering	2
3	7-1414-1	Fuel Line	1
4	2-1577-2	Rear Manifold Assembly	1
	AN3-13A	Bolt – Attachment	1
	AN365-1032	Nut	1
	AN960-10	Washer	1
5	1-8856	Assembly – Tube and Quick Drain	1
	MS21919-DF4	Clamp – Attachment	1
	AN3-3A	Bolt	1
	AN365-1032	Nut	1
6	7-1414-2	Fuel Line	1
	7-1414-6	Vinyl Covering	1
	AN822-8D	Elbow	1
	AN818-8D	Nut	1
	AN819-8D	Sleeve	1
7	1-8832-8	Hose	1
8	AN931-8-13	Grommet	1
9	1-8832-7	Hose	1
10	MS21919-DF8	Clamp	1
	AN526-1032-10	Screw	1
	AN365-1032	Nut	1
11	7-1414-7	Vent Line	1
	AN822-4D	Elbow	1
	AN818-4D	Nut	1
	AN819-4D	Sleeve	1
12	7-1414-5	Vent Line	1
	68F 1/4 x 1/8	Connector	1
	5/16 dia.	Chrome Steel Ball	1
13	1-10089	Fuel Pickup Line	1
	1-9860	Connector	1
14	11-0659-1	Fuel Shutoff Valve	1
15	11-0658-1	Fuel Shutoff Tube	1
	AN380-3-4	Pin	1
16	2-2088-2	Bracket Assembly	1
	AN526-832-8	Screw – Top Attachment	2
	C814-832	Nut – Top Attachment	1
	AN526-832-8	Screw – Lower Attachment	1
	C365-832	Nut – Lower Attachment	1
17	2-2258	Fuel Line Assembly	1
18	AN822-8D	Elbow	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIG. 16 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
19	2-2219	Gascolator	1
	2-727-1	Bracket	1
	AN526-1032-10	Screw	2
	AN365-1032	Nut	2
	CCA-1550	Quickdrain	1
	AN915-2D	Elbow	1
20	AN825-6D	Tee	1
	AN818-6D	Nut	2
	AN819-6D	Sleeve	2
21	4-1534	Fuel Tank	1
	7-1414-8	Neoprene Strip	2
	1-9826	Support – Tank	2
	AN4-10A	Bolt – Attachment	4
	AN960-416	Washer	4
	AN365-428	Nut	4
	2-761-10	Strap – Fuel Tank	2
	AN520-10-32	Screw – Attachment	2
	AN365-1032	Nut	2
22	1-8832-4	Hose	4
	AS8-11	Clamp	8
23	11-0875	Firewall Fitting	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 17
INSTALLATION - TOE BRAKE SYSTEM

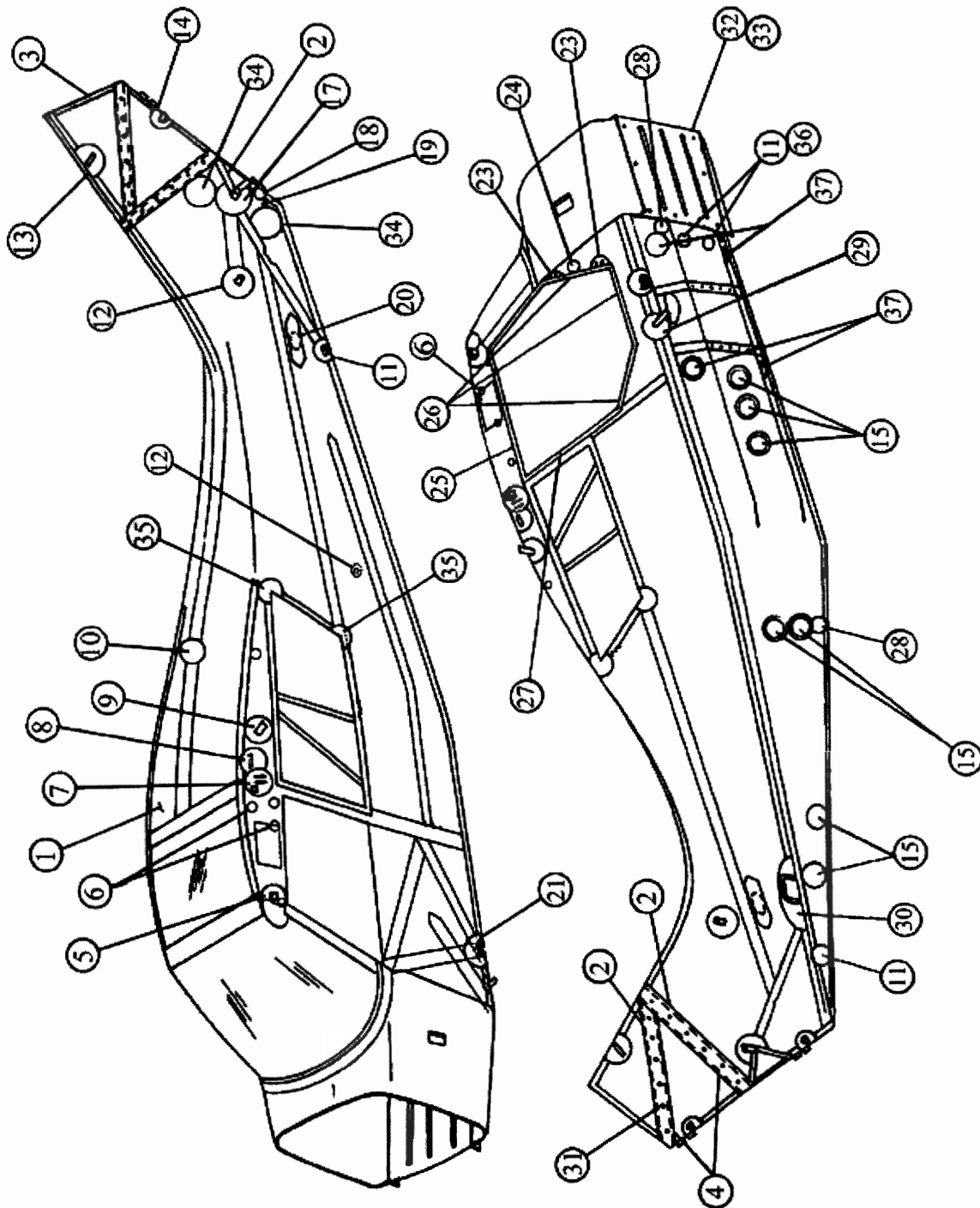


AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – TOE BREAK SYSTEM	UNITS PER ASSY
FIG. 17	4-1624	Drawing – Installation – Toe Brake	8KCAB
1	A315	Reservoir	1
	AN3-3A	Screw – Attachment – Firewall	2
	AN936-A10	Washer – Lock	2
2	69F 1/8 x 1/8	Elbow – Reservoir Vent	1
3	4-1624-1	Line – Reservoir Vent	1
4	63233	Tee	1
5	4-1624-2	Line – Right Side	1
6	4-1624-3	Line – Left Side	1
7	1-10399	Control – Parking Brake	1
	1-10180	Placard – Parking Brake	1
8	2-2162	Hose	2
9	AN822-4D	Elbow	2
10	60-5	Parking Brake Valve	1
	AN526-1032-22	Screw – Attachment to Floorboard	2
	AN960-10	Washer	2
	AN365-1032	Nut	2
11	2-2111-5	Line Assembly – Left Side – Aft Gear	1
12	2-2111-6	Line Assembly – Right Side – Aft Gear	1
14	1-10181	Bracket – Parking Brake Control	1
	AN742-4	Clamp – Control Attachment	1
	AN3-3A	Bolt	1
	1-2577-1	Shim	1
	AN365-1032	Nut	1
15	AN3-3A	Bolt – Control Attachment	1
	AN365-1032	Nut	1
16	4-1621	Rudder Pedal and Toe Brake Assembly <i>NOTE: See Figure 5 for Rudder Pedal and Toe Brake Assembly Parts.</i>	1L/1R
17	10-54	Master Cylinder	2
18	62029	Elbow	2
19	AN816-4D	Nipple	2
20	MS20392-2C19	Pin – Top and Bottom Master Cylinder Attachment	4
21	AN380-2-2	Cotter Key	4
22	2-2111-8	Line Assembly	2
23	AN833-4D	Elbow	2
	AN960-716	Washer	2
	AN924-4D	Nut	2

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 18
INSTALLATION - FUSELAGE COVERING

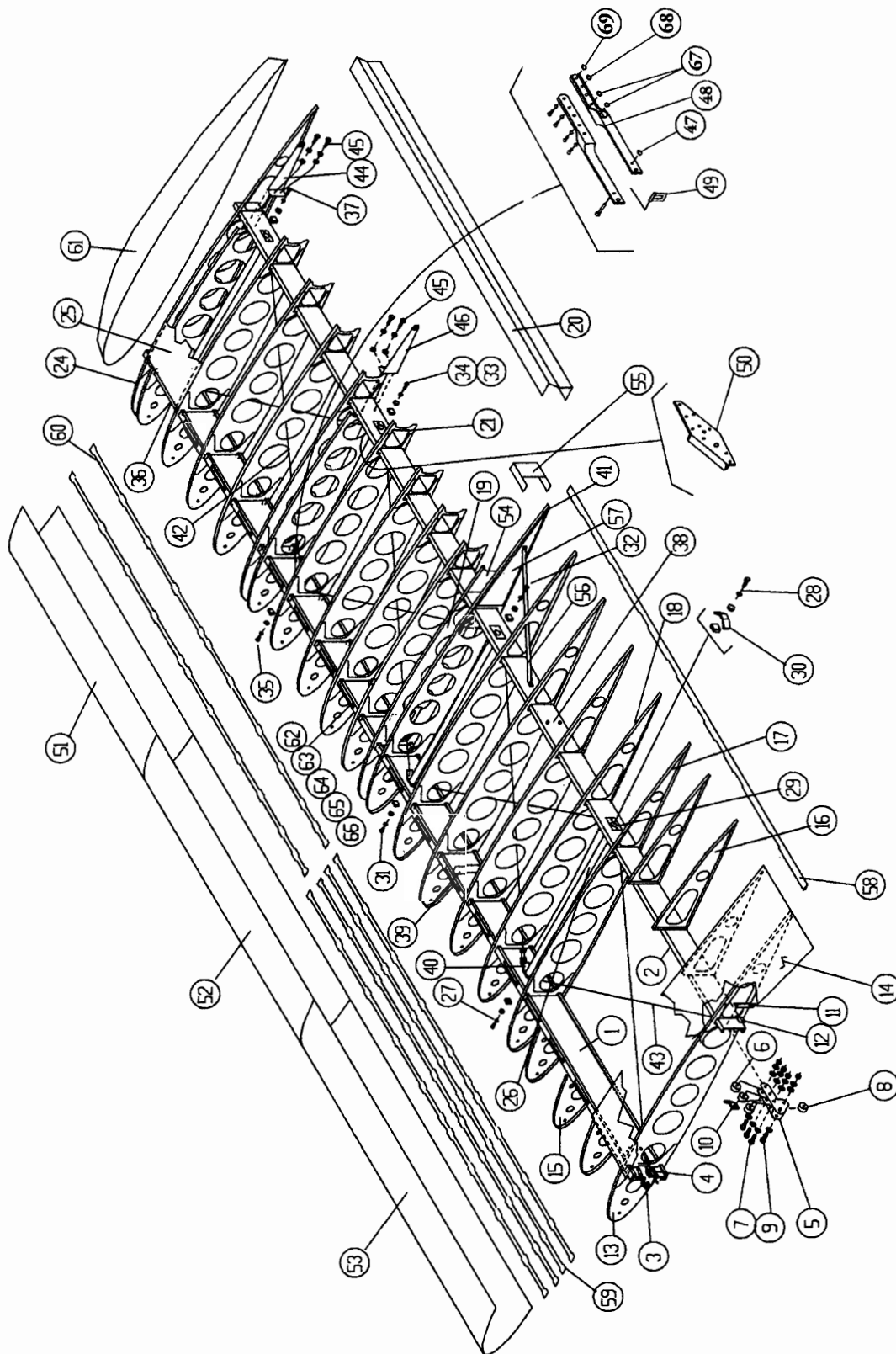


AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – FUSELAGE COVERING	UNITS PER ASSY
FIG. 18	7-1268-1	Drawing – Covering Fuselage	8KCAB
1	7-1268-1	Fabrics	As Req'd
2	7-1268-2	2" Tape – Ceconite Super Seam (alternate 367FR2)	As Req'd
3	7-1268-3	3" Tape – Ceconite Super Seam (alternate 367FR3)	As Req'd
4	7-1268-4	1" Tape – Ceconite Super Seam (alternate 367FR1)	As Req'd
5	1-10127	Patch – Wing Attachment Fitting	2
6	1-268-10	Patch – Ground Lug, Pitot Lines, and Nav. Lights	14
7	2-828	Patch – Wing Attachment fitting	2
8	1-2688	Patch – Aileron Cable Support	2
9	1-268-8	Patch – Rear Fuel Line	2
10	1-268-3	Patch – Antenna	1
11	1-268-2	Patch – 3"	7
12	1-2686	Patch	3
13	1-268-6	Patch	1
14	1-372	Patch	2
15	1617	Washer	10
	1-268-14	Patch	10
	3-639	Cover	10
16	1-10004	Patch – Elevator Horn	4
17	1-2661	Washer – Left Side Only	1
18	1-268-10	Patch	2
19	1-2953	Washer – Left Side only	1
20	1-9971	Grommet	2
	1-10245	Patch	2
21	2-830	Patch – Strut Fitting	2
23	1-8771	Patch	2
24	1-268-12	Patch – 2"	1
25	1-9970-2	Angle – Fabric Retainer – Door	1
26	1-9970-3	Angle – Fabric Retainer – Door	1
27	1-9970-1	Angle – Fabric Retainer – Door	1
28	1-268-2	Patch	2
	1-2952	Washer	2
29	2-825	Patch – Step	1
30	2-831	Patch – Lift Handle	1
31	AD42BSLF	Rivet – Fabric Attachment	24
32	7-1467	Belly Pan	1
33	1-10354	Mat – Belly Pan	1
34	1-617	Washer	2
	1-268-14	Patch	2
	3-639	Cover	2
35	1-268-3	Patch	4
36	1-9976	Washer	2
37	2-2172	Washer	4
	3-639	Cover	4

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 19
ASSEMBLY - WING FRAME



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION ASSEMBLY – WING FRAME	UNITS PER ASSY
FIG. 19	7-1535	Drawing – Assembly – Wing Frame	8KCAB
1	5-396-1	Spar – Front	1
2	5-397-1	Spar – Rear	1
3	2-2207 AN470AD6-8	Fitting – Front Spar Rivet	1 14
4	AN3-15A AN960-10L AN365-1032 11-0680	Bolt – Spar Attachment Washer Nut Lug	1 1 1 1
5	11-0676	Fitting – Rear Spar	1
6	11-0688-1	Spacer	3
7	AN3-13A AN960-10 AN365-1032	Bolt Washer Nut	3 8 3
8	11-0688-3	Spacer	1
9	AN4-14A AN960-416L AN365-A28	Bolt Washer Nut	1 1 1
10	1-9542	Lug	1
11	11-0708	Angle	1
12	11-0709 AN3-5A AN970-3 AN960-10L AN365-1032	Spacer Bolt Washer Washer Nut	1 1 1 1 1
13	5-398-1 5-398-2	Butt Rib Assembly Butt Rib Assembly	1 1
14	5-391 4-1740	Top Skin Lower Skin	1 1
15	4-1528	Rib – Nose – Tank Area	3
16	4-1527	Rib – Trailing – Tank Area	3
17	5-401-3 5-401-4	Rib – Main Assembly	1
18	5-401-1	Rib – Left Assembly	4
19	5-403-2	Rib – Assembly	2
20	5-359	Channel – Aileron Bay Trailing	1
21	5-400	Rib – Aileron Strut	1
22	5-402-2	Rib – Aileron Wing Assembly	7
23	5-403	Rib – Aileron Hinge	1
24	5-404-1	Rib – Wing Tip	1
25	3-1603	Stiffener – Rib Support	2
26	11-0672	Compression Tube	3
27	AN4H10A AN970-4 11-0674-2 11-0673-2	Bolt Washer Spacer Fitting	1 1 1 1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIG. 19 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
28	AN4H11A	Bolt	1
	AN970-4	Washer	1
	11-0674-1	Spacer	1
	11-0673-2	Fitting	1
29	11-0699	Double Plate	1
	AN470AD4-5	Rivet	2
30	11-0677	Lug	5
31	AN4H7A	Bolt	1
	AN970-4	Washer	1
	11-0674-2	Spacer	1
32	AN4H10A	Bolt	1
	AN970-4	Washer	1
	11-0674-1	Spacer	1
33	11-0689-1	Compression Tube	1
34	AN4H-11A	Bolt	1
	AN970-4	Washer	1
	11-0673-2	Fitting	1
	11-0673-3	Spacer	1
35	AN4H10A	Bolt	1
	AN960-416	Washer	1
	11-0673-2	Fitting	1
	11-0674-4	Spacer	1
36	AN4H-7A	Bolt	1
	AN970-4	Washer	1
	11-0673-2	Fitting	1
	11-0674-2	Spacer	1
37	AN4H10A	Bolt	1
	AN970-4	Washer	1
	11-0674-1	Spacer	1
	11-0673-2	Fitting	1
38	2-2211	Jury Strut Fitting	1
39	2-2210	Jury Strut Fitting	1
	2-2212	Jury Strut Fitting	1
40	11-0678	Lug	1
41	5-399-2	Rib	1PER-1&-3 ASSY
	5-399-1	Rib	1PER -2 ASSY
42	11-0696	Drag Wire Assembly	7
	2-1745-5	Wire	7
	AN665-21R	Terminal	7
	AN665-21L	Terminal	7
	AN315-3R	Nut	7
	AN315-3L	Nut	7
	AN393-11	Pin – Lug Attachment	14
	AN380-2-2	Pin	14

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIG.19 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
43	11-0697	Drag Wire Assembly	1
	11-0679-1	Wire	1
	AN655-34R	Terminal	1
	AN655-34L	Terminal	1
	AN315-4R	Nut	1
	AN315-4	Nut	1
	LAN394-15	Pin – Lug Attachment	2
	AN380-2-2	Pin	2
44	2-1973-R	Support – Wing Aileron Hinge	1
	AN470AD5-7	Rivet	2
45	AN4-6A	Bolt	4
	AN365-428	Nut	4
	AN960-416L	Washer	8
46	2-1973-L	Support – Wing Aileron Hinge	1
	AN470AD5-7	Rivet	2
47	AN4-14A	Bolt	1
	AN960-416	Washer	1
	AN365-428	Nut	1
48	3-1691R	Front Strut Fitting	1
	3-1691L	Front Strut Fitting	1
49	11-0711	Tie Down Ring	1
50	3-1647R	Rear Strut Fitting	1
	AN470AD6-6	Rivet	9
51	4-1772-4	Leading Edge Skin (right wing)	1PER-2ASSY
52	4-1772-1	Skin – Left Wing (without stall warning)	1PER-1&-3 ASSY
	4-1772-2	Skin – Right Wing	1PER-2ASSY
	4-1772-3	Skin – Left Wing (with stall warning)	1PER-1&-3ASSY
53	4-1773-1	Leading Edge Skin – Butt Section – Left Wing	1PER-1&-3ASSY
	4-1773-2	Leading Edge Skin – Butt Section – Right Wing	1PER-2ASSY
54	2-1978	Left and Right Rib	1L/1R
	AN470AD4-4	Rivet – Rib Attachment	4
55	2-1979	Cover	1
	AD42BS	Rivet – Cover Attachment	10
56	4-2016	Rib Stiffener	1L/1R
58	2-1977-1	Trailing Edge – Left	1
	2-1977-2	Trailing Edge – Right	1
	AD42BS	Rivet – Rib Attachment	20
59	4-1775-1	Stiffener	4
60	4-1775-2	Stiffener	2
61	7-1506	Wing Tip	1L/1R
62	11-0693-5	Angle	1
	AD42BS	Rivet – Angle to Spar Attachment	3
	AN470AD3-5	Rivet – Leading Edge Skin to Angle Attachment	4
63	11-0693-2	Angle – Left Wing	23
	11-0693-2	Angle – Right Wing	25
	AN470AD3-5	Rivet – Angle to Spar Attachment	69
	AD42BS	Rivet – Leading Edge Skin to Angle Attachment	69

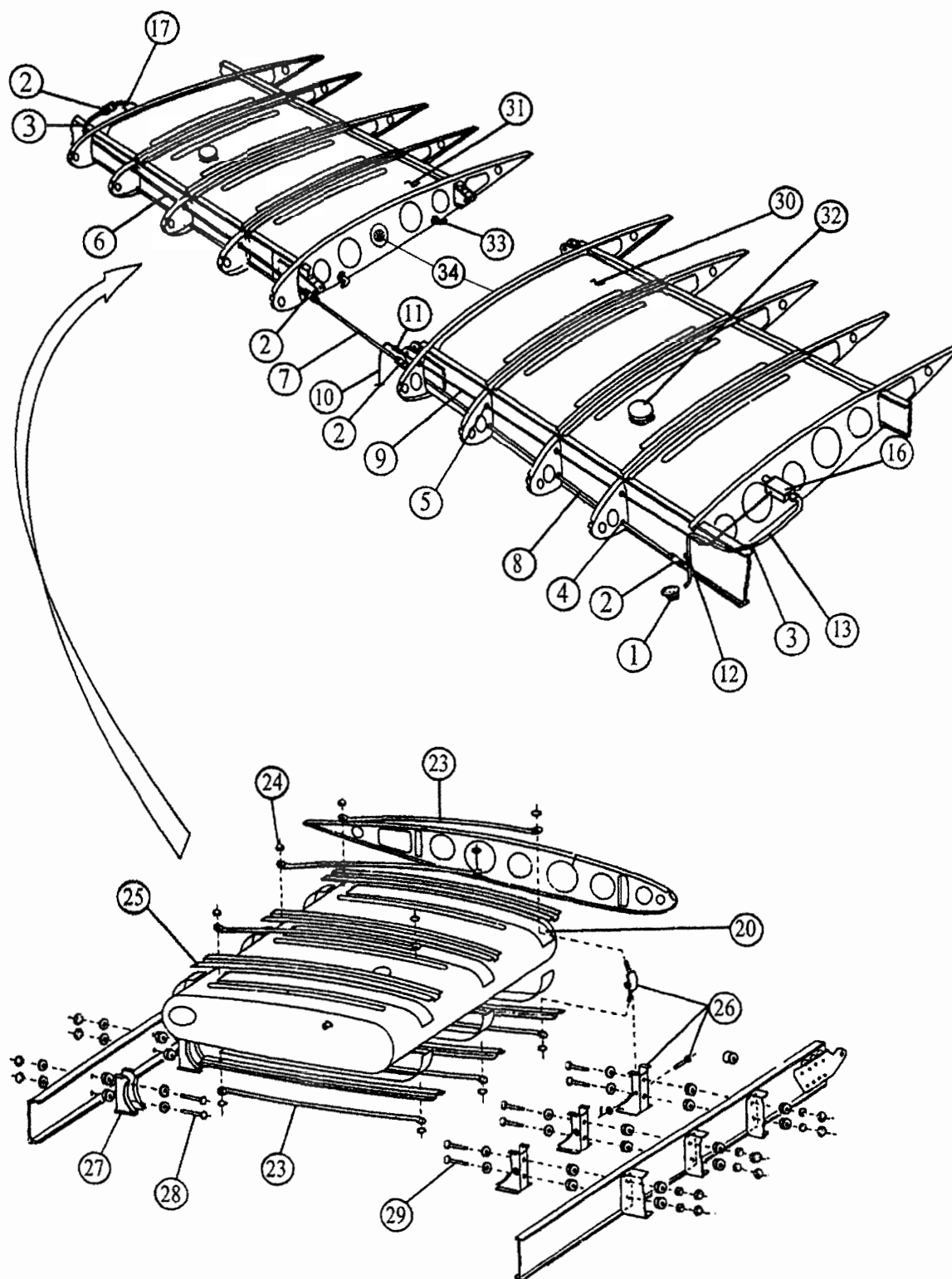
AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

FIG. 19 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
64	11-0693-1	Angle – Left Wing	2
	11-0693-1	Angle – Right Wing	2
	AN470AD3-5	Rivet	6
	AD42BS	Rivet	6
65	11-0693-3	Angle – Left Wing	10
	11-0693-3	Angle – Right Wing	6
	AN470AD3-5	Rivet	20
	AN42BS	Rivet	20
66	11-0693-4	Angle – Right Wing	1PER-1&-3ASSY 3PER-2ASSY
67	AN4-10A	Bolt	2
	AN365-428	Nut	2
	AN960-416L	Washer	4
68	AN4H-7A	Bolt	1
	AN365-428	Nut	1
	AN960-416	Washer	3
69	AN4-7A	Bolt	1
	AN365-482	Nut	1
	AN960-416	Washer	3

FIGURE 20
INSTALLATION – FUEL TANK AND FUEL VENT



AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI 53167

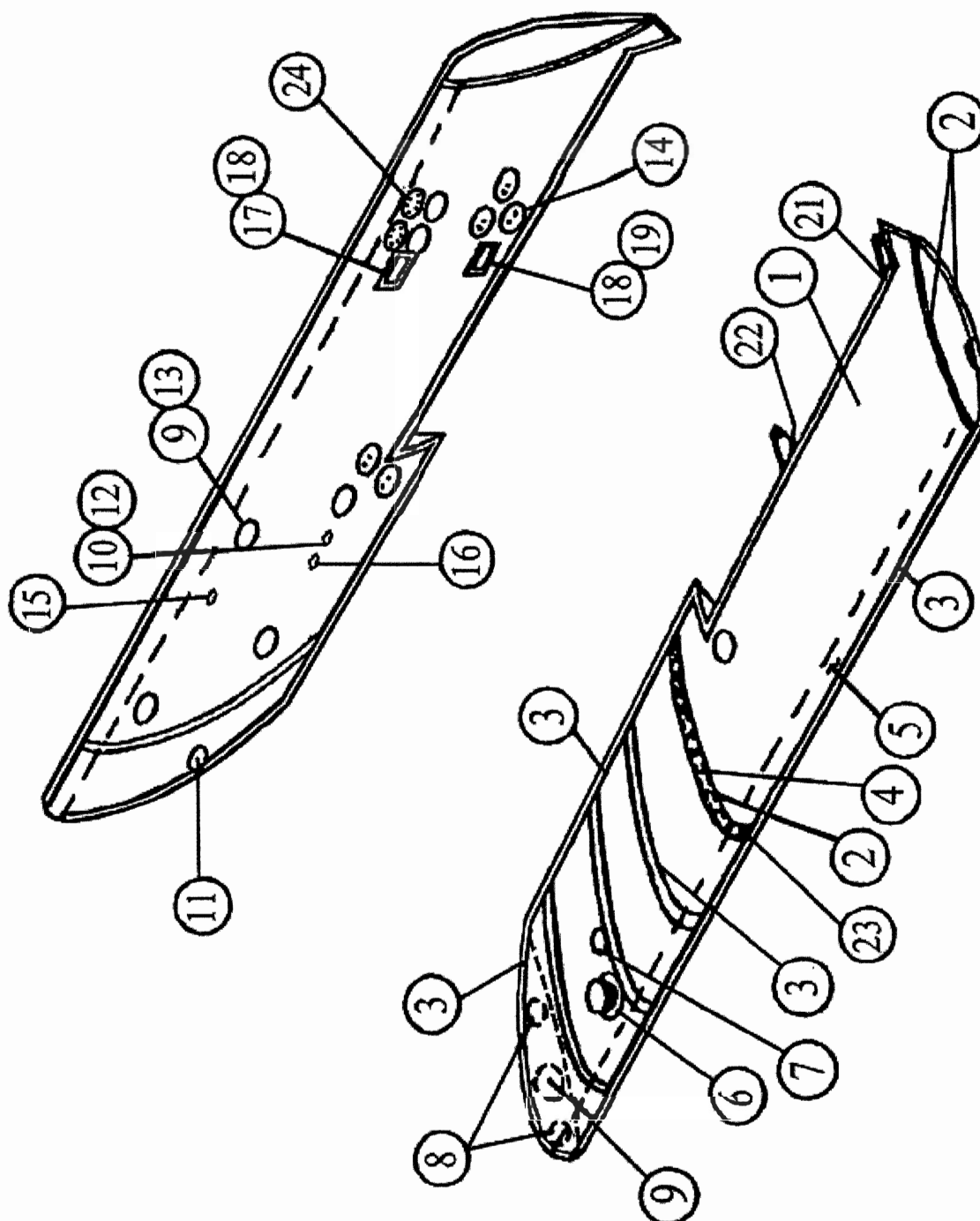
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – FUEL TANK AND FUEL VENT	UNITS PER ASSY
FIG. 20	4-1525 7-1537	Drawing – Installation – Fuel Vent System Drawing – Installation – Wing Fuel Tank	8KCAB
1	3-1508 AS6-4-6SP	Vent – Deflector Screws	1 5
2	1-8832-4	Hose	4
3	4-1525-5	Tube – Plastic Cover	2
4	AC930-1	Grommets	6
5	AC930-1	Grommets	4
6	4-1525-1	Line – Vent	1
7	4-1525-2	Line – Vent	1
8	4-1525-3	Line – Vent	1
9	4-1525-6	Line – Vent	1
10	7-1414-10	Tube	1
11	16240	Compression Fitting (alternate for 4-1525-7 hose)	1
12	MS21919-WDF6 AN3-14A AN970-3 AN960-10 AN365-1032 1-9072	Clamp Bolt Washer Washer Nut Space	1 1 1 1 1 1
13	2-2217	Vent Assembly	1
16	2-2200-2 2-2199-2 8612 68F ¼ x 1/8 AN816-6D 113B ¼ x 1-1/2 2-2208	Assembly – Check Valve – Left Wing Aluminum Block Check Valve Brass Fitting Aluminum Fitting Nipple Tube	1 1 1 1 1 1
17	2-2200-1 2-2199-1 8612 AN816-6D 113B ¼ x 2	Assembly – Check Valve – Right Wing Aluminum Body Check Valve Aluminum Fitting Nipple	1 1 1 1 1
20	7-1537-8	Rubber Chafe Strip	12
23	2-761-9	Strap	12
24	AN365-1032	Nut	48
25	4-1496	Channel	12
26	2-2062-1 2-1958 1-9884 AN393-37 AN960-10L AN380-2-2	Support Assembly Support Fitting Pin Washer Key	6 6 6 6 6 6
27	2-2062-2 2-1959 1-9884 AN393-37 AN960-10L AN380-2-2	Support Assembly Support Fitting Pin Washer Key	6 6 6 6 6 6

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIG. 20 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
28	AN3-12A	Bolt	12
	AN365-1032	Nut	12
	AN970-3	Washer	24
	11-0688-2	Space	12
29	AN3-14A	Bolt	12
	AN365-1032	Nut	12
	AN970-3	Washer	12
	AN960-10	Washer	12
	11-0687	Spacer	12
30	7-1536-1	Fuel Tank – Left	1
	AN932-2	Drain Plug (alternate CCA 1550 quickdrain or F391-18 flush drain)	1
31	7-1536-2	Fuel Tank – Right	1
	AN932-2	Drain Plug (alternate CCA 1550 quickdrain or F391-18 flush drain)	1
32	1-8768-7	Fuel Cap Assembly	2
	1-2593-2	Cap	2
	1-8767-9	Decal	2
	1-10408	Gasket	2
33	11-0825	Elbow (alternate 1-10338)	4
34	2-2191	Gauge – Fuel Tank	1

FIGURE 21
INSTALLATION - WING COVERING

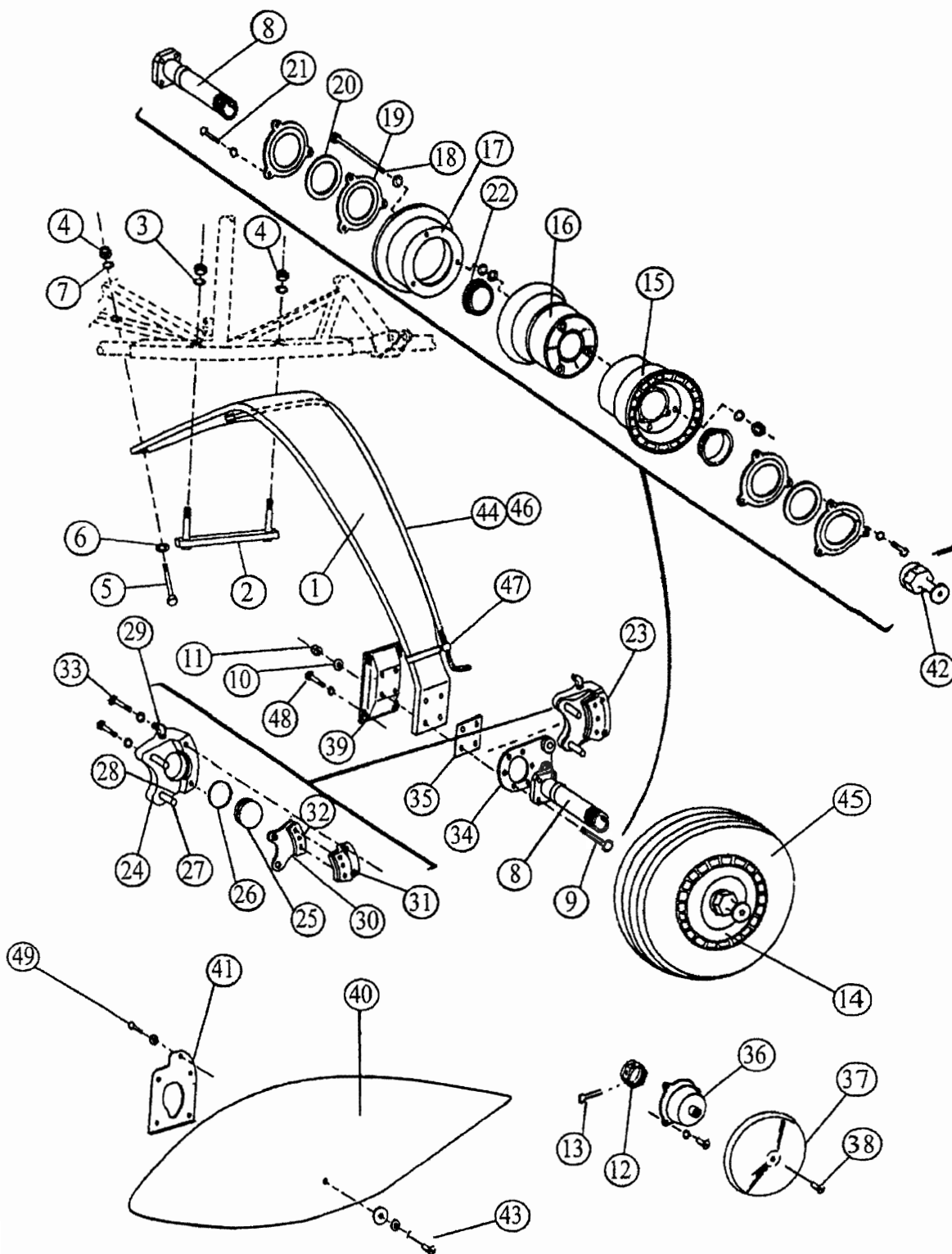


AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – WING COVERING	UNITS PER ASSY
FIG. 21	7-1521-1,-2&-3	Drawing – Wing Covering	8KCAB
1	7-1521-6	Fabric	As Req'd
2	7-1521-7	Tape – 2" (alternate 367FR2)	As Req'd
3	7-1521-8	Tape – 3" (alternate 367FR3)	As Req'd
4	7-1521-9	Tape – 1" (alternate 367FR1)	As Req'd
5	7-1521-10	Tape – ½"	As Req'd
6	1-268-9	Patch – Filler Neck	1
7	1-268-2	Patch – 3"	2
8	1-268-10	Patch – Attachment Bolt	2
9	1-268-1	Patch – 6	11
10	1-9976	Washer (left wing only)	2
11	1-2661	Washer	2
	1-2686	Patch	2
12	1-268-8	Patch – Vent Tube (left wing only)	2
13	1-617	Washer	13
14	3-639	Cover	10
15	1-2688	Patch – Jury Strut	2
16	1-2690	Patch – Jury Strut	2
17	1-10019	Washer	2
18	1-2444-4	Patch	4
19	1-10134	Washer	2
21	2-2098-1	Patch	2
22	2-2098-2	Patch	1
23	AD42BSLF	Rivet – Fabric Attachment	1200
	EC847	Adhesive – Fabric Attachment	As Req'd
	1357	Adhesive – Fabric Attachment	As Req'd
24	11-0887	Cover	2
	AS6-6-8SP	Screw	16

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 22
INSTALLATION - LANDING GEAR - CLEVELAND BRAKES



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – LANDING GEAR CLEVELAND BRAKES	UNITS PER ASSY
FIG. 22	4-1474 7-1307	Drawing – Installation – Wheel Pants Drawing – Installation – Landing Gear	8KCAB
1	4-1404	Gear Leg	1L/1R
2	11-0850 MS20007-34	U-Bolt Bar Assembly Bolt (alternate NA5147-47)	2 4
3	MS20002-7	Washer	4
4	BAC-N10-HR7	Nut (alternate ZEB1845-070)	6
5	MS20007-32	Bolt	4
6	MS200002C7	Washer – Under Bolt Head	4
7	MS20002-7	Washer – Under Nut	4
8	3-1600	Axle – Assembly	2
9	AN5-14A or 15A	Bolt – Attachment	8
10	AN960-516	Washer	8
11	AN365-524	Nut	8
12	1-10538	Nut – Required Without Wheel Pants	2
13	AN380-4-8	Cotter Pin	2
14	40-28D (040-02804	Wheel Assembly – Cleveland	2
15	3041A (162-00600) 13836 (214-00100)	Outer Wheel Half Assembly Cup Bearing	2 2
16	161-16 (161-1600) 13836 (214-00100)	Inner Wheel Half Assembly Cup Bearing	2 2
17	164-5 (164-00500)	Brake Disc Assembly	2
18	AN4-36A AN365-428 AN960-416	Bolt – Half Wheel Assembly Nut Washer	6 6 6
19	B39094 (153-00500)	Ring – Grease Seal	4
20	39091 (154-00500)	Felt – Grease Seal	2
21	832x1/2 (102-50100) 1208 (095-15100)	Screw Lock Washer	12 12
22	13889 (214-00200)	Cone – Bearing	2
23	30-19A	Brake Assembly – Cleveland	2
24	61-6 (061-00200)	Cylinder – Brake	2
25	3002 (062-00300)	Piston	2
26	AN6227-23	O-Ring (101-02300)	2
27	3013 (069-00200) AN960-616L AN364-624	Bolt – Anchor Washer Nut	4 4 4
28	FC6446 (079-00300) 37-206 (081-00100) 183-1 (183-00100)	Screw – Bleeder Seat – Bleeder Cap – Bleeder – Rubber	2 2 2
29	AN823-4D	Elbow – 45°	2
30	63-5 (063-00500) 3006 (066-00200) 561 (105-00200)	Plate – Pressure Lining Rivets	2 2 6
31	3012 (064-00500) 066-10600 561 (105-00200)	Plate – Back Lining Rivets	2 2 6
32	68-4 (068-00400)	Shim	2

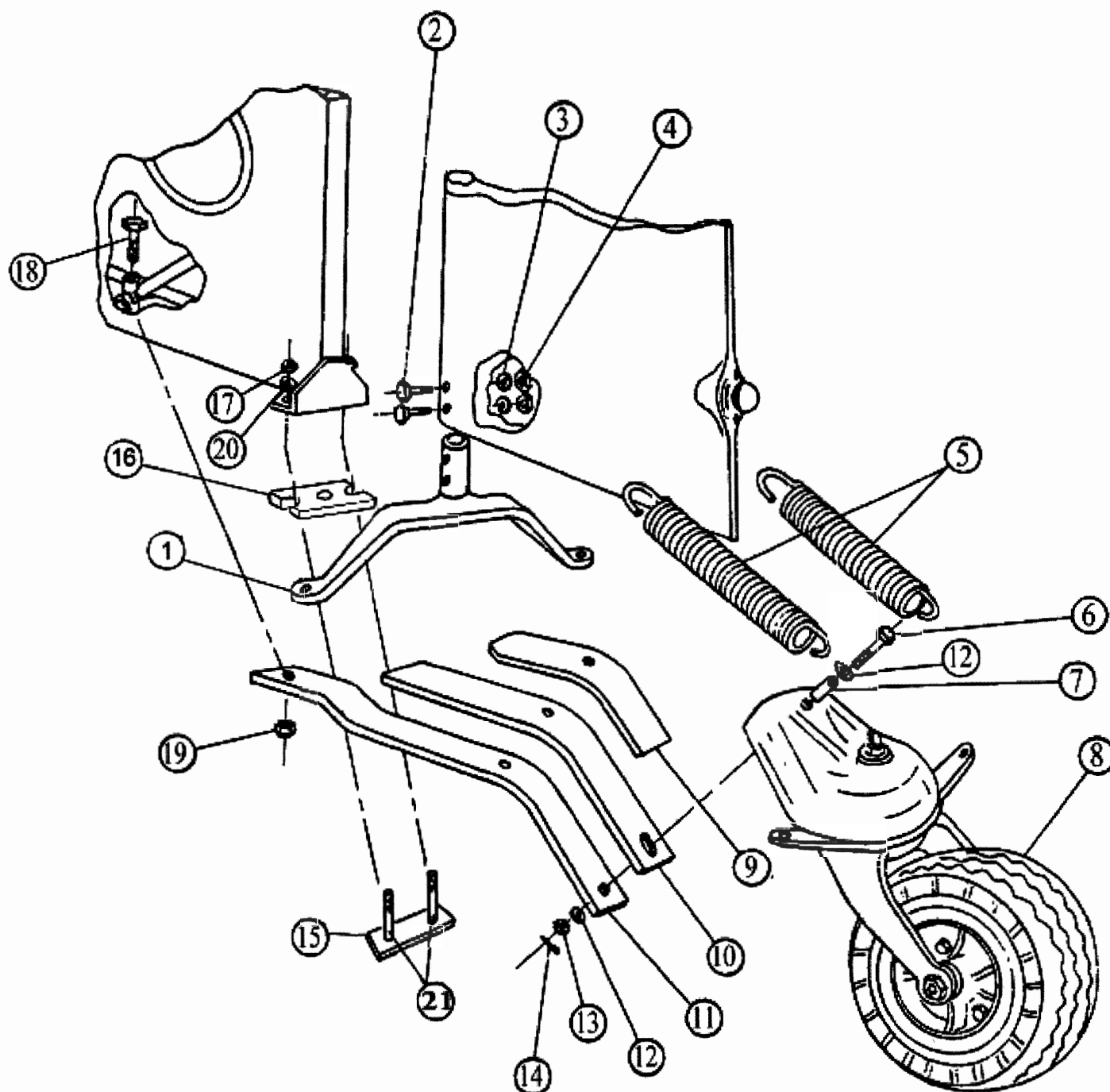
AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

FIG. 22 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
33	LP4-15AM	Bolt (103-12100)	4
	AN960-416L	Washer	4
34	75-17	Torque Plate Assembly	2
35	1-9888-1	Shim – Required for Chamber Angle	2
39	2-1961	Bracket – Wheel Pants	2
40	7-1541	Wheel Pants	1L/1R
41	2-1945	Cover	1L/1R
	AN936-A8	Washer	6
	AN526-832-10	Screw – Cover Attachment	6
	AN526-1032-10	Screw – Pant Attachment	8
	AN960-10L	Washer	8
42	1-9858	Wheel Nut – Wheel Pant Installation	2
43	AN5-5A	Bolt – Pant Attachment – Outboard	2
	AN936-A516	Washer	2
	AN960-516	Washer	2
44	601000-4-0080	Hose Assembly – Flexible	2
	AN815-4D	Union	2
45	600 x 6, 4 PLY	Tire and Tube	2
	600 x 6, 6 PLY	Tire and Tube	2
	700 x 6, 6 PLY	Tire and Tube	2
	800 x 6, 4 PLY	Tire and Tube	2
	850 x 6, 4 PLY	Tire and Tube	2
		Note: see service manual for tire size limitations	
46	2-2133-1	Brake Line	2
47	1-10280-1	Bracket	2
	AN526-1032-12	Screw	2
	AN365-1032	Nut	2
	MS21919-DF6	Clamp	2
48	AN526-1032-10	Screw	8
	AN960-102	Washer	8
49	AN526-832-10	Screw	6
	AN936-A8	Washer	6
	B832	Wellnut	6

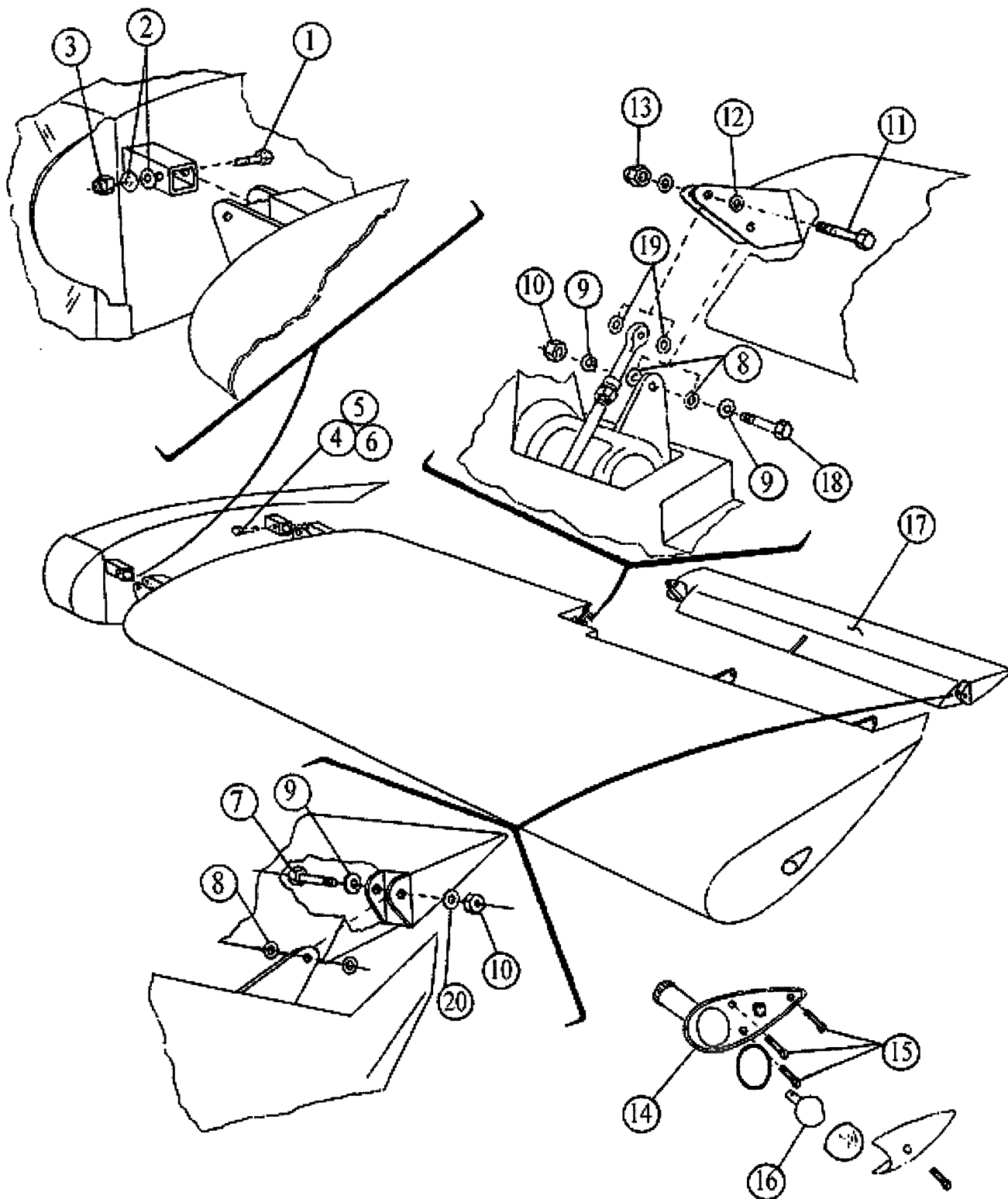
FIGURE 23
INSTALLATION - TAIL WHEEL



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
FIG. 23	4-1080	Drawing – Installation – Scott Tail Wheel	8KCAB
1	3-1619	Arm – Tail Wheel	1
2	AN3-13A	Bolt	2
3	AN960-10	Washer	4
4	AN365-1032	Nut	2
5	2-1525	Spring	2
6	AN7-20	Bolt	1
7	1-8971	Bushing	1
8	3200	Tail Wheel – Scott	1
9	3-1543-3	Spring	1
10	3-1543-2	Spring	1
11	3-1543-1	Spring	1
12	AN960-716	Washer	2
13	AN310-7	Nut	1
14	AN380-3-4	Cotter Pin	1
15	11-0948	Tail Spring U-Bolt Bar	1
16	1-557-1	Pad – Rubber Belted	1
17	AN365-524	Nut	2
18	AN6-22A	Bolt	1
19	AN365-624	Nut	1
20	AN960-516	Washer	2
21	AN5-15A	Bolt	2

FIGURE 24
INSTALLATION - WING AND AILERON

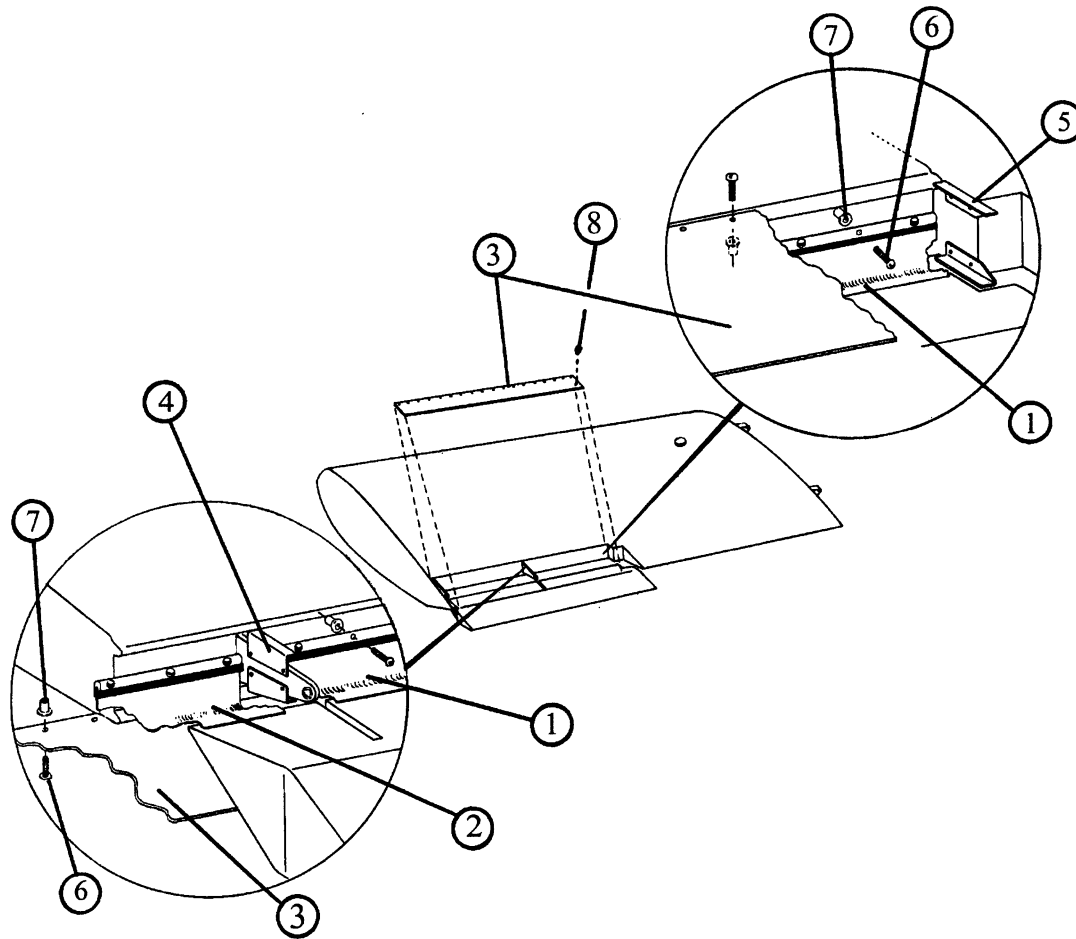


AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – WING AND AILERON	UNITS PER ASSY
FIG. 24	7-1520 7-1507	Drawing – Installation – Wing And Struts Drawing – Installation – Wing Tip	8KCAB
1	AN7-17A	Bolt	2
2	AN960-716	Washer	4
3	AN365-720	Nut	2
4	AN4-13A	Bolt	2
5	AN960-416	Washer	2
6	AN365-428	Nut	2
7	AN4-10A	Bolt	2
8	1-2576	Bushing	12
9	AN960-416	Washer	10
10	AN365-428	Nut	6
11	AN3-10A	Bolt	2
12	AN960-10	Washer	4
13	AN365-1032	Nut	2
14	W1285PR W1285PG	Red Navigation Light Green Navigation Light	1 1
15	AN504-6-5	Screw	6
16	W1290-14	Bulb	2
17	4-1533 5-351	Aileron – Covered Aileron – Frame	1L/1R 1L/1R
18	AN4-11A	Bolt	4
19	AN960-10L	Washer	4
20	AN960-416L	Washer	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

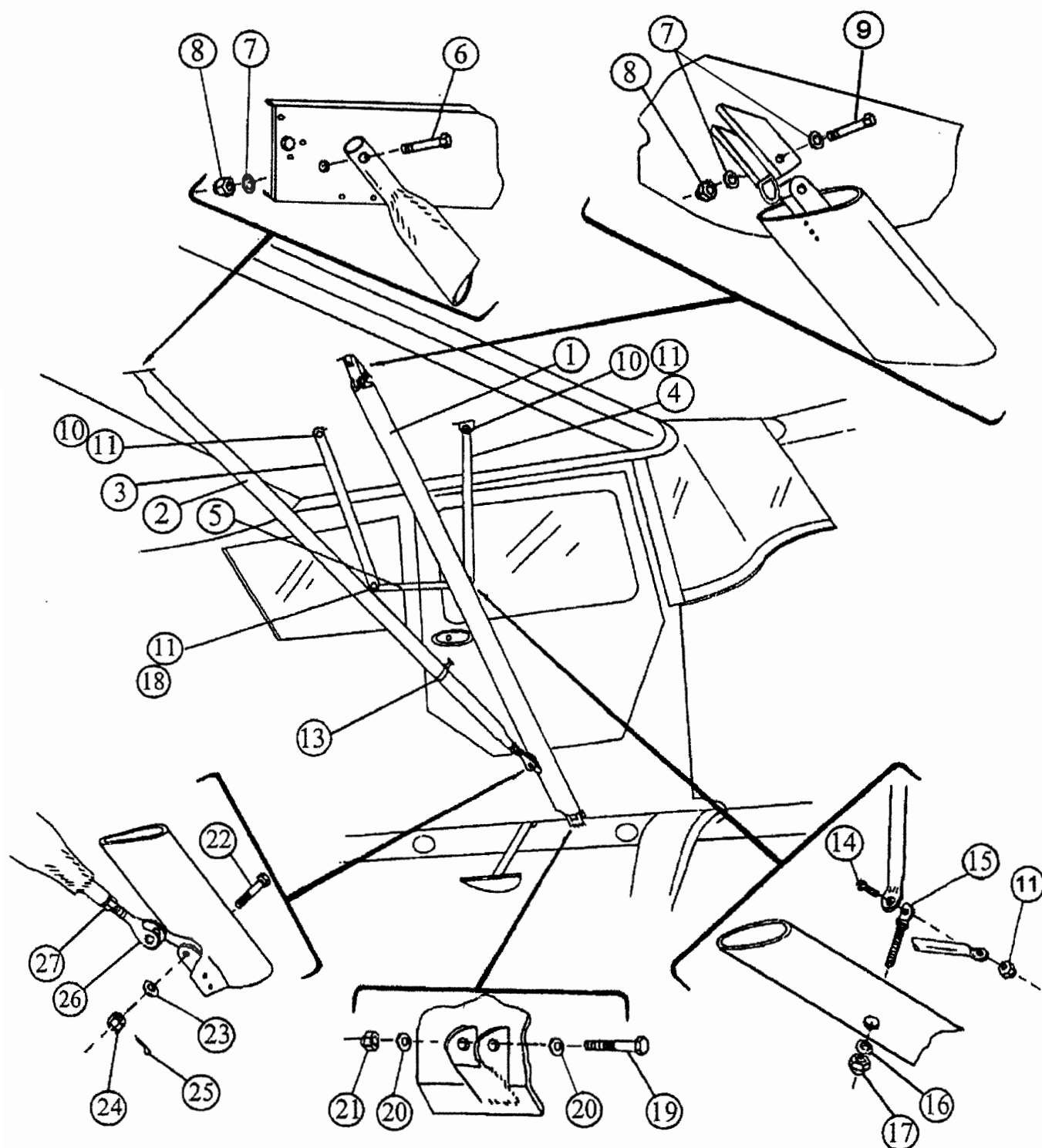
FIGURE 25
INSTALLATION – AILERON GAP COVERS AND SEALS



INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – AILERON GAP COVERS AND SEALS	UNITS PER ASSY
FIG. 25	4-1538	Drawing – Installation – Aileron Gap Covers and Seals	
1	3-1444-1	Aileron – Seal – Inboard	1L/1R
2	3-1444-2	Aileron – Seal – Outboard	1L/1R
3	2-2007	Cover – Aileron Gap	2L/2R
4	1-10129 AD42BS	Angle Rivet	2L/2R 16
5	1-10130 AD42BS	Angle Rivet	4L/4R 16
6	AN526-832-8	Screw	122
7	B-832	Nut	122
8	AS6-6-6SP	Screw – Attachment – Gap Cover to Angle	12
9	RTV	Silicone Sealant – For Gap Seal to Aileron (not listed)	As Req'd

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 26
INSTALLATION - WING STRUTS



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

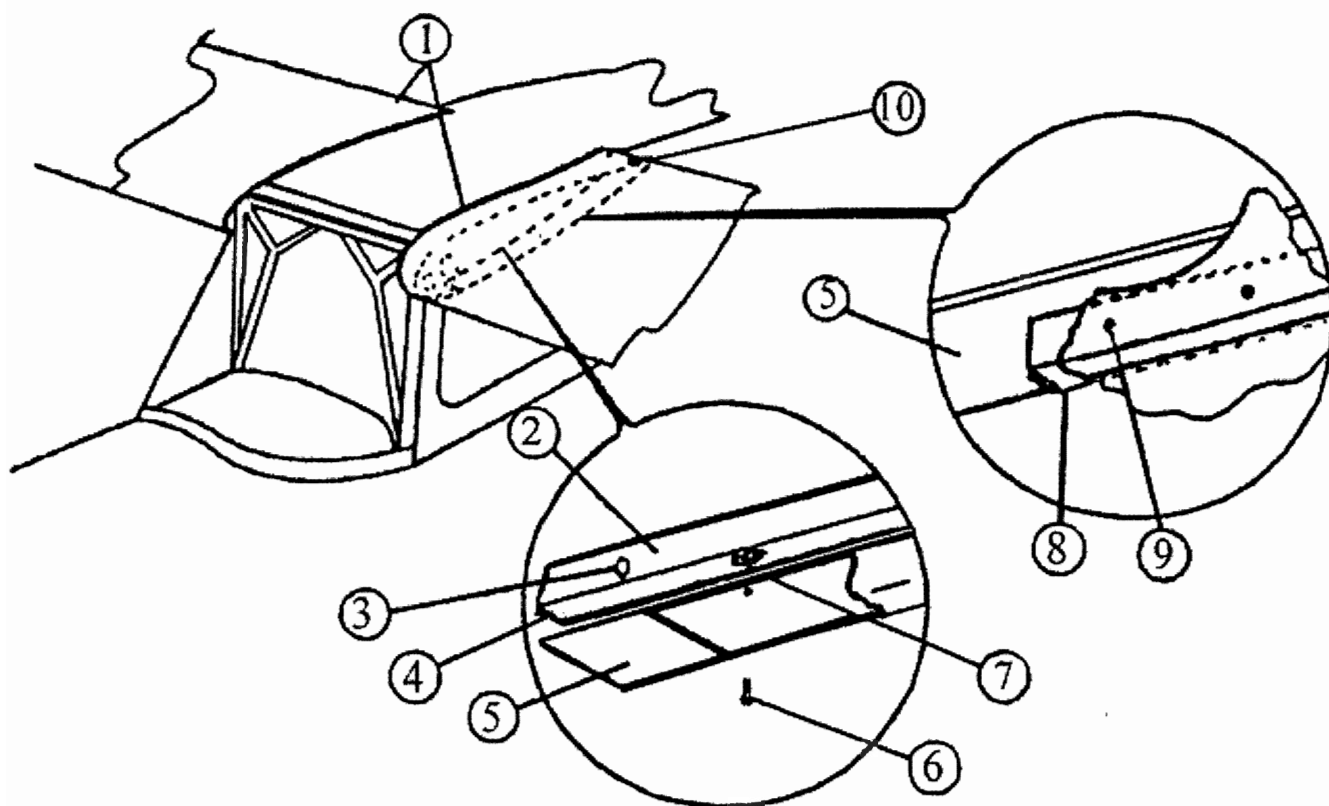
INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – WING STRUTS	UNITS PER ASSY
FIG. 26	7-1520	Drawing – Installation – Wings and Struts	8KCAB
1	5-426	Strut – Wing Brace – Front	1L/1R
2	4-1535	Strut – Wing Brace – Rear	2
3	1-2315	Strut – Rear Jury	2
4	1-2314	Strut – Front Jury	2
5	1-10106	Spreader – Jury Strut	2
6	AN6-21A	Bolt	2
7	AN960-616	Washer	6
8	AN365-624	Nut	4
9	AN6-21A	Bolt	2
10	AN3-4A	Bolt – Upper Jury Strut Attachment	4
11	AN365-1032	Nut – Jury Strut Attachment	10
13	1-2347	Bumper	1
	1-10135	Door Stop	1
	AN515-8-8	Screw	1
	AN365-832	Nut	1
14	AN3-5A	Bolt – Lower Jury Strut Attachment	4
15	11-0945	Eye Bolt	2
16	AN960-416	Washer	2
17	AN365-428	Nut	2
18	AN42B-17A	Eye Bolt	2
19	AN7-16A	Bolt	2
20	AN960-716	Washer	4
21	AN365-720	Nut	2
22	AN5-10	Bolt	2
23	AN960-516	Washer	2
24	AN310-5	Nut	2
25	AN380-2-3	Key	2
26	1-2543	Fitting	2
27	AN316-8R	Nut	2

AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

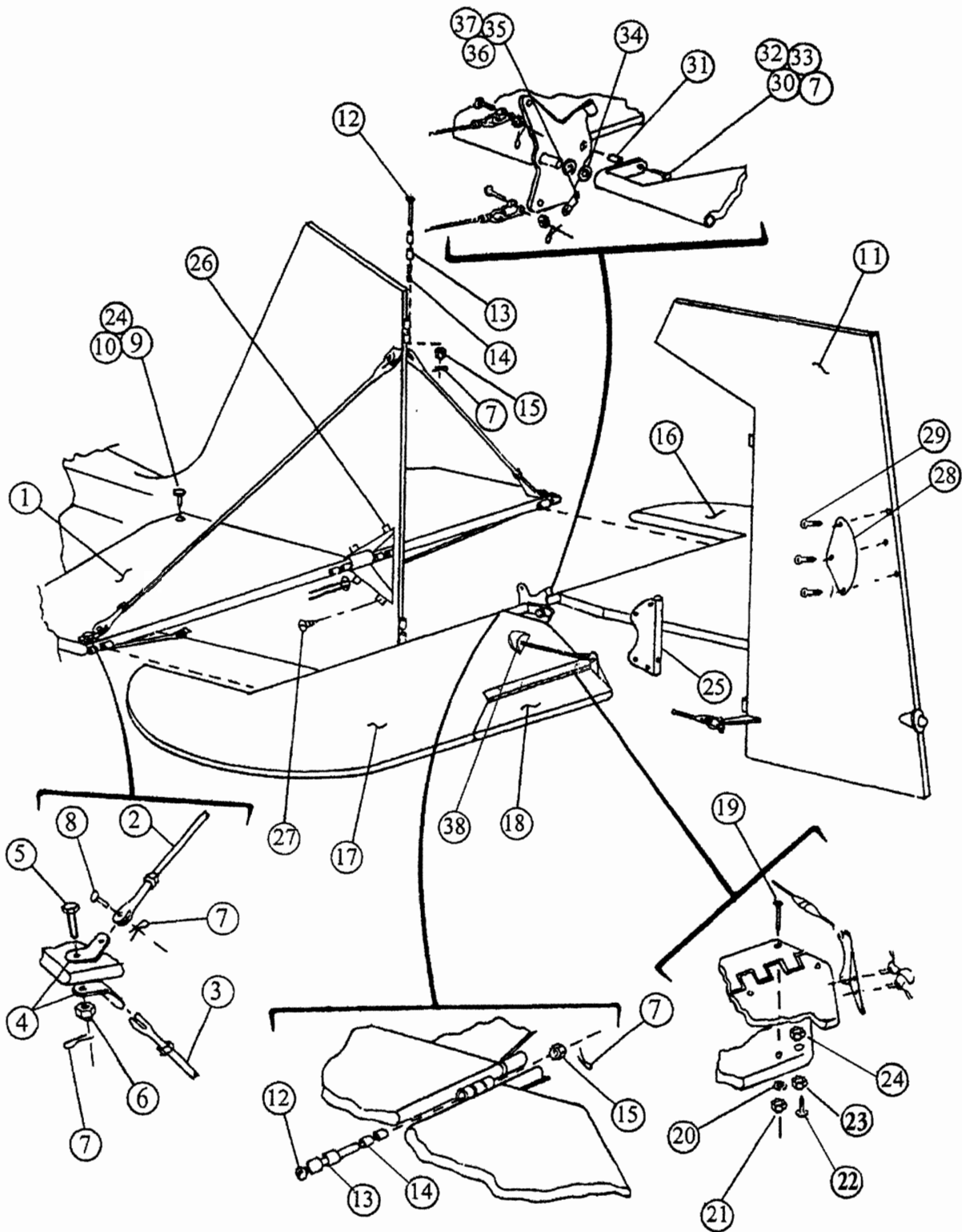
FIGURE 27
INSTALLATION - GAP COVERS



INDEX #	PART NUMBER	DESCRIPTION INSTALLATION - GAP COVERS	UNITS PER ASSY
FIG. 27	4-1739	Drawing - Installation - Lower Gap Cover	8KCAB
1	1-10640	Rubber Extrusion	As Req'd
2	3-1615	Angle - Inboard	1L/1R
3	AN3-3A	Bolt	8
	AN960-10L	Washer	8
	AN936A10	Lock Washer	8
4	1-10624	Rubber Strip	2
5	4-1738	Lower Gap Cover	1L/1R
6	AN526-832-8	Screw - Cover to Angle Attachment	10
7	#175	Extrusion - Inboard	As Req'd
8	3-1614	Track - Outboard	1L/1R
9	AD42BS	Rivets	26
10	AN526-632-5	Screw	4
	AN364-632C	Nut	4

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 28
INSTALLATION - TAIL SURFACES



AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

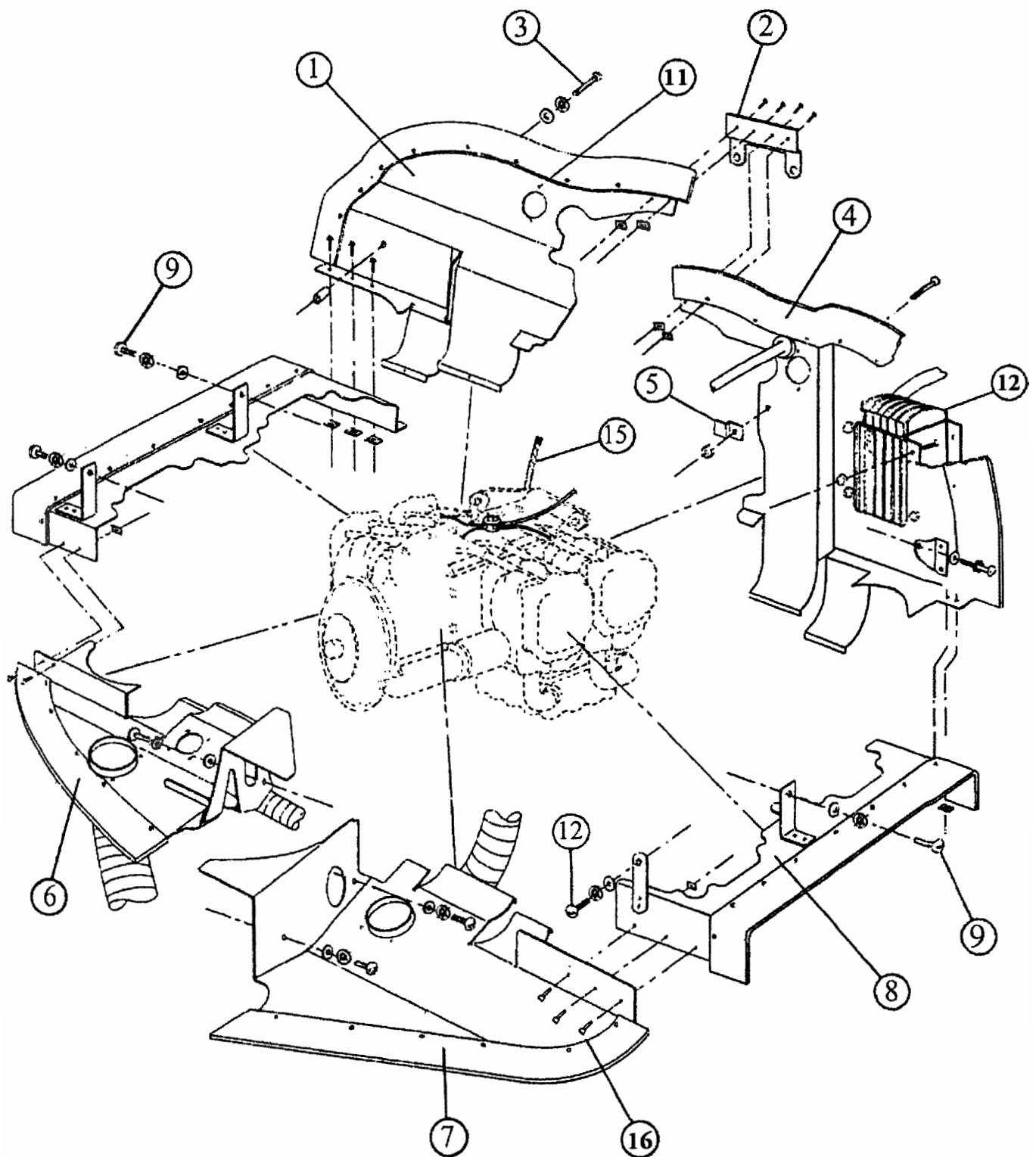
INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – TAIL SURFACES	UNITS PER ASSY
FIG. 28	7-1487	Drawing – Installation – Tail Surfaces (bearings)	8KCAB
1	4-1481 4-1478	Stabilizer – Covered Stabilizer – Frame	1L/1R 1L/1R
2	2-1746-4 AN665-21L AN665-21R AN315-3L AN315-3R AN380-2-2 AN393-11 2-1745-4	Stabilizer – Grad Wire Assembly – Upper (round) Terminal Terminal (alternate 1-9874) Nut Nut Cotter Pin Pin Tie Rod	2 2 2 2 2 2 2 2
3	3-1107-2 1-2340 AN315-3L AN315-3R AN380-2-2 AN393-11 AN665-21L AN665-21R	Stabilizer – Drag Wire Assembly – Lower (round) Tie Rod Nut Nut Cotter Pin Pin Terminal Terminal	2 2 2 2 2 2 2 2
4	1-2357	Lug – Drag Wire	4
5	AN3-15	Bolt	2
6	AN310-3	Nut	4
7	AN380-2-2	Cotter Pin	16
8	AN393-11	Pin – Drag	8
9	AN3-13	Bolt	2
10	AN960-10	Washer	6
11	4-1698 4-1697	Rudder – Covered Rudder – Frame	1 1
12	AN23-40	Bolt	6
13	1-3737-1	Bushing	12
14	B34PS	Bearings	12
15	AN320-3	Nut	6
16	4-1704 4-1703	Elevator – Covered – Right Elevator – Frame – Right	1 1
17	4-1702 4-1701	Elevator – Covered – Left Elevator – Frame – Left	1 1
18	4-562	Tab – Elevator	1
19	AN515-8-14	Screw – Tab Attachment	4
20	AN960-8L	Washer	4
22	AN526-10-22	Screw	1
23	AN315-3R	Nut – Tab Stop – Lower side	1
24	AN365-1032	Nut – Tab Stop	1
25	3-456	Elevator Horn Cover	1
26	A1788-8Z-1	Nut Plate	8
27	AS6-10-10-SPC	Screw	8
28	1-1290	Tab	1
29	AS6-4-SS	Screw	3
30	AN4-7	Bolt	1
31	1-2669	Bushing	1

**AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL**

FIG. 28 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
32	AN960-416	Washer	As Req'd
33	AN310-4	Nut	1
34	AN960-816	Washer	As Req'd
35	AN4-7A	Bolt	1
36	AN960-416	Washer	As Req'd
37	AN365-428	Nut	1
38	L271	Grommet	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 29
INSTALLATION – ENGINE Baffles AND OIL COOLER AEIO-360-H1A



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – ENGINE BAFFLES AND OIL COOLER	UNITS PER ASSY
FIG. 29	7-1502	Drawing – Installation – Engine	8KCAB
1	4-1713	Baffle – Right Rear	1
2	1-8834	Plate	1
3	AN526-1024-20	Screw	1
	AN960-10L	Washer	1
	AN936-A10	Washer – Lock	1
	AS16058-024C	Bushing	1
	MS1919-WDG2	Clamp	1
4	4-1715	Baffle – Left Rear	1
5	1-8836	Clip – Baffle Attachment	1
	AN3-4A	Bolt	1
	AN365-1032	Nut	1
	AN960-10L	Washer	2
6	4-1654	Baffle – Right Front	1
7	4-1653	Baffle – Left Front	1
8	3-1563	Baffle – Side	1L/1R
9	AN526-420-8	Screw – Baffle Attachment	7
	AN960-416L	Washer	14
	AN936-B416	Washer – Lock	7
10	AN3-4A	Bolt – Spark Plug Wire to Baffle Attachment	4
	AN960-10	Washer	8
	AN365-1032	Nut	4
	M-2375	Spark Plug – Wire Grommets	2
11	AD42BS	Rivet	14
12	AN526-1024-8	Screw – Baffle Attachment	1
	AN960-10L	Washer	1
	AN936-A10	Washer – Lock	1
13	20002A	Oil Cooler – Harrison	1
	AN3-41	Bolt – Cooler Attachment	4
	AN365-832	Nut	4
	AN970-3	Washer	8
	11-0873	Spacer	4
	1-9899-1	Cover Plate – Oil Cooler (winter use)	1
14	2-2163	Hose – Oil Cooler to Engine	2
	AN823-8D	Elbow – 45 ⁰	2
	AN822-8D	Elbow – 90 ⁰	1
	AN816-8D	Fitting	1
15	624000-3-0104	Hose Assembly – Oil Pressure Line	1
	1-9644	Fitting	1
	AN823-3	Union – Firewall	1
	AN960-616	Washer	2
	AN924-3	Nut	1
	AN914-1D	Elbow	1

FIGURE 30
INSTALLATION – ENGINE INTAKE AND EXHAUST SYSTEM



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – ENGINE INTAKE AND EXHAUST SYSTEM	UNITS PER ASSY
FIG. 30	4-1637 7-1502 7-1483-3	Drawing – Assembly – Injector Air Box Drawing – Installation – Engine Drawing – Exhaust System	8KCAB
1	3-1544	Air Box Cover	1
2	AN515-8R6 C420-832-1	Screw – Cover Attachment Nut	12 12
3	AN74A-13 AN960-416	Bolt – Air Box Attachment Washer	4 4
4	4-1637 3-1546	Carb Air box Assembly Air Scoop Box	1 1
5	1-3670-3 AN426AD4-4	Flange Rivet – Flange and Back Attachment	1 9
6	1-10329 1-8960 1-10328 AN470AD4-7	Plate Assembly Bushing Plate Rivet – Plate Attachment	2 2 2 8
7	1-8950-2	Shaft Assembly	1
8	2-2142	Valve	1
9	AN515-8-12 AN363-832	Screw – Valve Attachment Nut	2 2
10	2-2083	Cover	1
11	AN515-8-5 C420-832-1	Screw – Attachment Nut	7 7
12	1-10526	Spacer	1
13	DEL099001-193	Muffler Sub-Assembly	1
14	DEL09005-100 AN365-1032C AN3-4A	Bead Camp Nut – Attachment Bolt	8 16 16
15	DEL099001-120	Riser Assembly	4
16	DEL099001-703	Shroud Assembly	1
17	3-985-2 AN737TW74	Flex Tube – Right Air Intake Clamp	2 4
18	3-985-29 AN737TW74	Flex Tube – Front Seat Heater Clamp	1 2
19	HF-3 AN3-7 AN970-3 AN310-3 AN315-3R	THROTTLE CONTROL ATTACHMENT PART AT ENGINE Rod End Bolt Washer – Between Arm and Rod End Nut Nut	1 1 1 1 1
20	1-9995 AN960-416 or -416L AN310-4 AN380-2-2	INJECTOR AIR AND MIXTURE CONTROL ATTACHMENT PARTS TO ENGINE Bolt Washer Nut Cotter Pin	1 As Req'd 1 1

AMERICAN CHAMPION AIRCRAFT CORPORATION

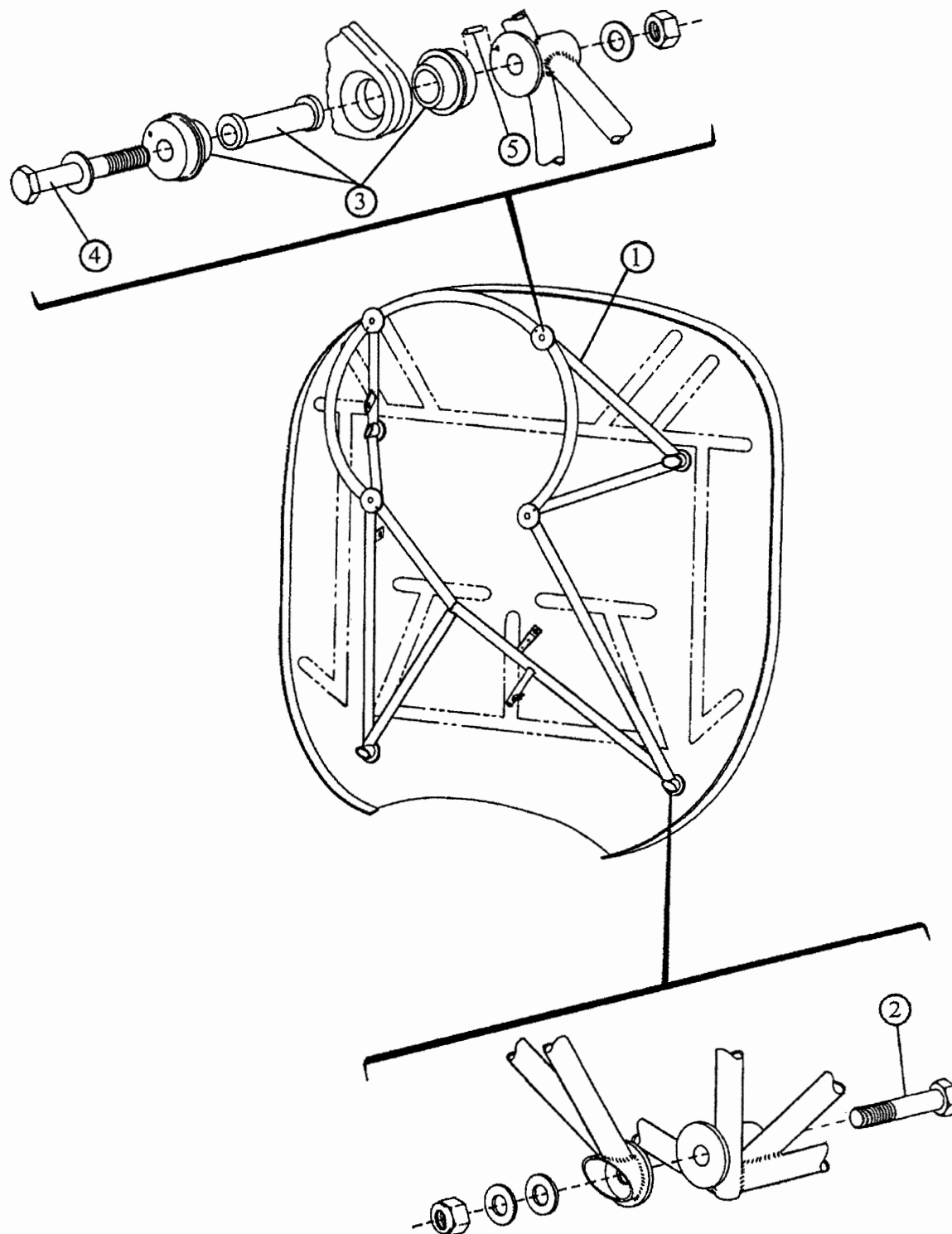
ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

FIG. 30 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
21	AN742-3	INJECTOR HEAT AND MIXTURE CONTROL ATTACHMENT PARTS TO MOUNT	
	AN742-4	Clamp – Mixture Control	1
	AN3-4A	Clamp – Injector Heat	1
	AN960-10	Bolt	2
	AN365-1032	Washer	2
23		Nut	2
	1-9865	FUEL PRESSURE LINE INSTALLATION	
	11-0823	Fitting – Injector	1
	1-2392-10	Fitting – Lycoming	1
24		Fuel Pressure Line	1
	3-985-12	Flex Tube – Air Intake – Left Side	1
*26	AN737TW74	Clamp	2
	3-985-25	Flex Tube – Rear Seat Heater	1
*27	AN737TW74	Clamp	2
	11-0838	Fuel Line – Gascolator to Electric Fuel Pump	1
	AN912-2D	Fitting	1
*28	AN816-5-4D	Fitting	1
	1-10541	Bracket	2
	B-8110-G	Fuel Pump – Electric	1
	AN737TW-91	Clamp	1
	RA2000-5-6	Elbow	2
*29	2-2111-2	Drain Line – Electric Fuel Pump	1
	AN816-4D	Elbow	1
	624117-5-0155	Hose – Electric Fuel Pump to Engine Fuel Pump	1

***NOTE: Parts not shown.**

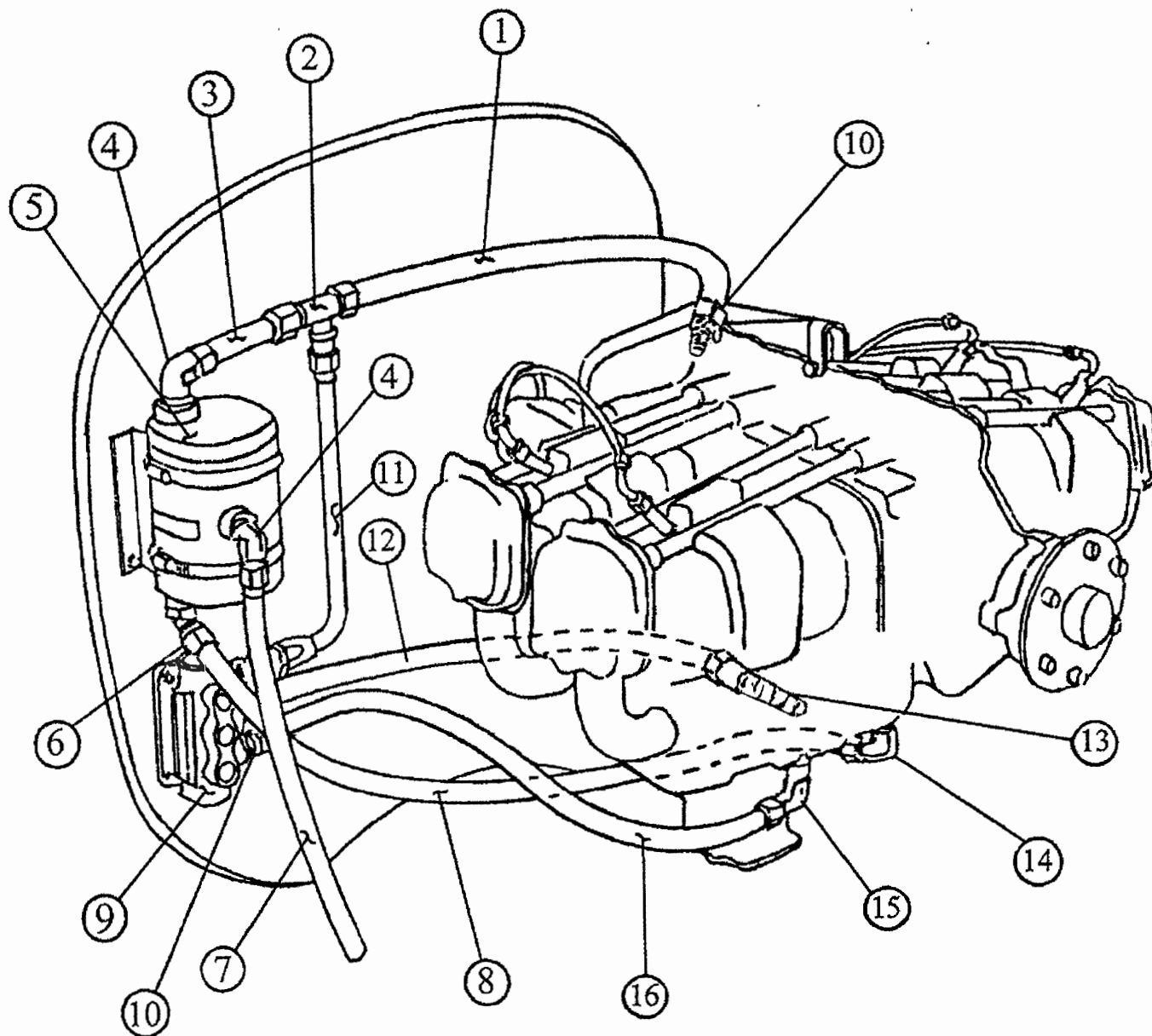
FIGURE 31
INSTALLATION – ENGINE MOUNT



AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – ENGINE MOUNT	UNITS PER ASSY
FIG. 31	7-1502	Drawing – Installation – Engine Mount	8KCAB
1	7-1503	Mount	1
2	AN7-32A	Bolt	4
	AN365-720	Nut	4
	AN960-716	Washer	8
3	J-6230-1	Bushing Kit – Lord	4
4	AN8-44A	Bolt	4
	AN363-820	Nut	4
	AN960-816	Washer	8
5	MS171522	Roll Pin	4

FIGURE 32
INSTALLATION - LYCOMING CHRISTEN OIL SYSTEM AEIO-360-H1A

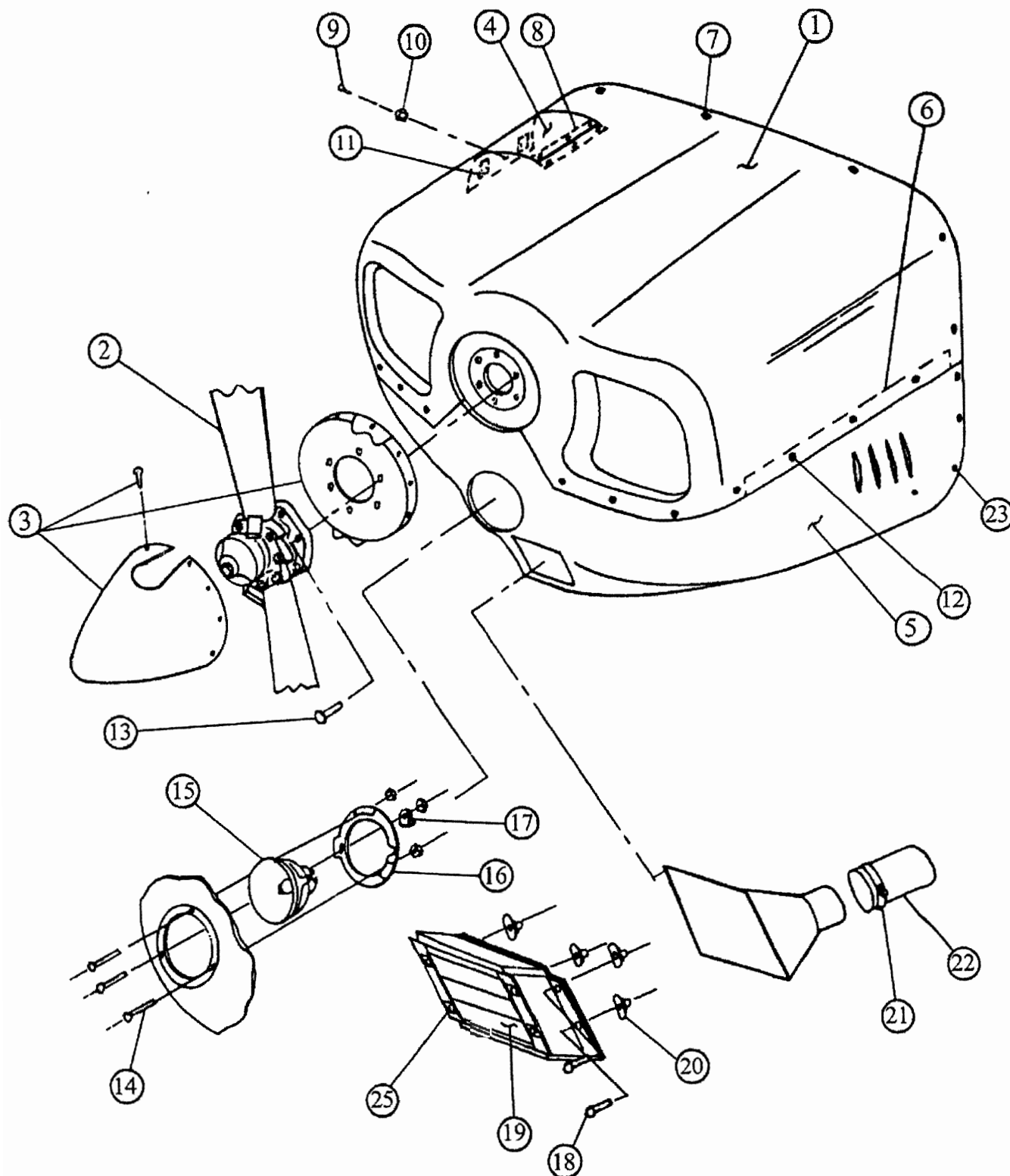


AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMER	DESCRIPTION INSTALLATION – LYCOMING CHRISTEN OIL SYSTEM	UNITS PER ASSY
FIG. 32	7-1502	Drawing – Installation – Engine AEIO-360-H1A	8KCAB
1	2-2128	Hose Assembly to Engine Breather	1
2	AN834-10D	Tee	1
3	1-10449	Line Assembly	1
4	AN822-10-12D	Elbow – 90 ⁰	2
5	LW-13749	Separator Can – Lycoming	1
	AN3-4A	Bolt – Separator Attachment	4
	AN960-10	Washer	4
6	AN823-10D	Elbow – 45 ⁰	1
7	2-2129	Assembly Line	1
8	2-2126	Hose Assembly to Engine Sump	1
9	LW-13750	Valve – Lycoming	1
	AN3-5A	Bolt – Valve Attachment	4
	AN960-10	Washer	4
10	AN816-10D	Nipple	3
11	2-2177	Assembly – Line	1
12	2-2171	Hose Assembly	1
13	LW-13752	Plug – Forward Screen	1
	70484	Screen	1
	LW-14035	Fitting – Sump	1
14	LW-13754	Fitting – Lycoming	1
15	LW-13753	Fitting – Lycoming – Sump Oil Pickup	1
16	2-2128	Hose Assembly	1

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 33
INSTALLATION - COWLING AND PROPELLER 180 HP CONSTANT SPEED



AMERICAN CHAMPION AIRCRAFT CORPORATION

ROCHESTER, WI 53167

DECATHLON 8KCAB PARTS MANUAL

INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – COWLING AND PROPELLER	UNITS PER ASSY
FIG. 33	4-2010 7-1517	Drawing – Installation – Constant Speed Propeller Drawing – Installation and Cowl Assembly	8KCAB
1	7-1482-1	Upper Cowling	1
2	HC-C2YR-4CF/ FC7666A-2	Propeller – Hartzell	1
	MTV-15-B-C/ C188-34	Propeller – MT (alternate)	1
	MTV-9-B-C/C188-18B	Propeller – MT 3-Blade (alternate)	1
3	836-52	Spinner Assembly – Hartzell	1
	C-2495	Spinner Dome	1
	AN526C10329	Screw – Dome	14
	C-2569	Bulkhead Unit	1
	C-1020	Washer – Fiber	14
	P-277A	Spinner and Mount Kit (alternate MT)	1
	P-208C	Spinner and Mount Kit (alternate 3-blade)	1
4	3-1561	Access Door Cowl	1
5	7-1482-4	Lower Cowling	1
6	2-1889	Angle	2
7	AN507C-1032-R10	Screw	6
	NAS601-10	Washer	6
	T10-32	Clip Nut	6
	MS21059-L3	Nut Plate	10
8	AN275-4-650	Hinge	1
9	AN526C-832-R108	Screw	1
10	S8	Rivnut	1
11	H5000-2-081-188	Lock	2
12	AN507C-1032-R10	Screw	14
	NAS601-10	Washer	14
	T10-32	Nut Plate Fastener	14
13	A-2476-4	Kit – Spinner Mounting – Hartzell	1
	A-2246-4	Spacer	4
	A-2433	Bolt	4
	AN960-616	Washer	As Req'd
	A-2043	Nut	4
14	AN526-832-12	Screw (light attachment)	3
	AN365-832	Nut	3
15	4509	Lamp	1
16	2-1912	Bracket	1
17	MS21919-WDF4	Clamp	4
18	AN520-10-40	Screw	4
19	BA8110	Air Filter	1
20	MS21059-L3	Floating Nut Plate	4
	AD34BS	Rivet	8
21	7051027	Clamp	1
22	7-1475-5	Tube	1
23	AN507C-1032-R10	Screw	10
	NAS601-10	Washer	10
	MS21059-L3	Nut Plate	10
25	BA-8102	Grill	1
	832-R6	Screws	1
	MS35333-38	Lock Washer	1

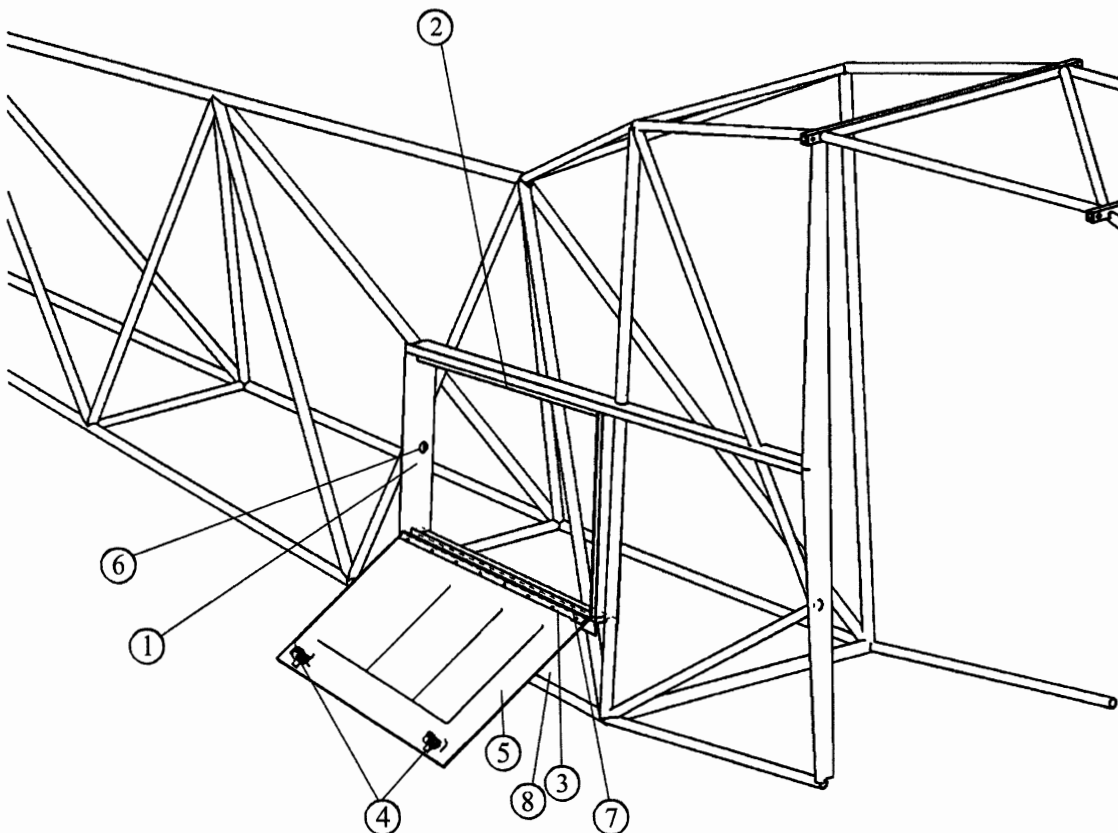
**AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL**

FIGURE 33 INDEX #	PART NUMBER	DESCRIPTION	UNITS PER ASSY
*26	B210988	Governor – Propeller	1
	2-2168	Control – Governor	1
	1-10126	Placard	1
	1-10195-1	Cover – Control Lug	1
	AN3-10A	Bolt – Control to Government Attachment	1
	AN315-3R	Nut	1
	N365-1032	Nut	1
	AN960-10	Washer	1
	HF-3	Rod End	1

***NOTE: Parts not shown and are required with constant speed propeller installation**

AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WI 53167
DECATHLON 8KCAB PARTS MANUAL

FIGURE 34
INSTALLATION – OPTIONAL BAGGAGE DOOR



INDEX #	PART NUMBER	DESCRIPTION INSTALLATION – OPTIONAL BAGGAGE DOOR	UNITS PER ASSY
FIG. 34	3-1716 3-1717	Drawing – Baggage Door Frame Installation Drawing – Baggage Door Installation	8KCAB
1	3-1714 11-0947	Baggage Door Frame Lower Brace	1 1
2	AV4737 AV4738	3/8 Weatherstrip 1/2 Weatherstrip	1 1
3	2-2291 AN426AD3-5	Hinge Assembly Rivet	1 8
4	E3-56-35 E3-26-819-15	Latch – Southco Latch Tool - Southco	1 2
5	3-1715	Baggage Door	1
6	-1	.75 Diameter Finishing Plug - Commercial	1
7	2-2292 AD46BS	Trim Angle Rivet	1 8
8	3-1718	Panel	1



PO Box 37
32032 Washington Avenue – Hwy D
Rochester, WI 53167
www.amerchampionaircraft.com
aca-parts@mia.net
general information or technical support: 262-534-6315
toll-free parts ordering line: 800-223-9381
fax 262.534.5329