

01-0. INTRODUCTION

This manual describes and illustrates the electrical system of the Cessna 400 (LC41-550FG). The manual contains a connector matrix, block diagrams, and wiring details as well as instructions on how to use the manual to find the necessary information.

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- End of Chapter -

02-0. HOW TO USE THIS MANUAL

This manual is organized such that the user can determine the wire or connector, the location of the wire or connector in the aircraft, and how that wire or connector is used, by referencing both schematic block diagrams and details. The connector matrix is the primary reference source and will direct the user to the detail or block diagram the connector is depicted on, or to the place the connector is located in the aircraft. Chapter numbers in the Electric Manual correspond to the Chapter numbers in the Maintenance Manual.

02-1. IF THE CONNECTOR NUMBER IS KNOWN

The connector number can be determined from the wire number on the aircraft. To determine the connector number from an actual wire label, reference the wire labeling system in Paragraph 02-3. Using the connector number, go to the Connector Matrix in Chapter 3. The connectors are listed in numerical order with each block of numbers found on a different page.

For example, if the connector number is 45, go to the 4X connector page. As indicated by the title, all 4X connectors are used for the trim system. Find connector number 45 and you will note that the connector can be found on Detail 25-4 and is located in aircraft zone C1.

02-2. IF THE CONNECTOR NUMBER IS UNKNOWN

To determine the connector number reference the Connector Matrix Log in Chapter 3 and look for which system the connector is used in. Turn to the page with connectors for the system the connector is used in (listed in numerical order). The connector matrix will list specific equipment the connector is for, detail numbers and location descriptions. Use this information to determine the specific connector.

02-3. WIRE LABELING SYSTEM

Each wire in the Cessna 400 (LC41-550FG), except the avionics wires which are unlabeled, is labeled so that it can be easily identified when working in the field. Once the wire is identified, the connectors and wiring assembly can be identified by using the connector matrix.

- a. All electrical wiring is labeled in accordance with the following system. Each wire number consists of nine or ten digits. Ten digit wire numbers are typically used when assigned to avionics systems. The first series of four digits contains the wire function letter, as shown in Table 2 - 1, and the three digit segment number. The number nine (9) after the wire function letter denotes a ground or reference wire. Even number wires denote a destination on the right side of the aircraft centerline; odd numbers denote a left side destination.
- b. The next three digits designate the connector terminus of the wire. "P" designates a plug, or male connector housing. "J" designates a jack, or female connector housing.
- c. The final two digits are the pin designation of the wire terminus. Leading zeros are required to make correct digit counts in all designators. Figure 2 - 1 contains a diagram of wire labeling.

• A = AVIONICS	• P = (RESERVED, PLUG)
• B = POWER DISTRIBUTION, BATTERY	• Q = ANNUNCIATORS
• C = CHARGING SYSTEM	• R = SAFETY SYSTEMS
• D = DIMMER	• S = STALL WARNING
• E = INSTRUMENTATION	• T = TRIM
• F = FUEL SYSTEM	• U = ENVIRONMENTAL
• H = HYDRAULIC SYSTEM	• V = AUTOPILOT
• J = (RESERVED, JACK)	• W = FLAPS
• K = RELAYS	• X = ELT
• L = LIGHTING	• Y = DE-ICE
• M = MISCELLANEOUS	• Z = SPEEDBRAKE
• N = PITOT / STATIC	

Table 2 - 1 Wire Function Letters

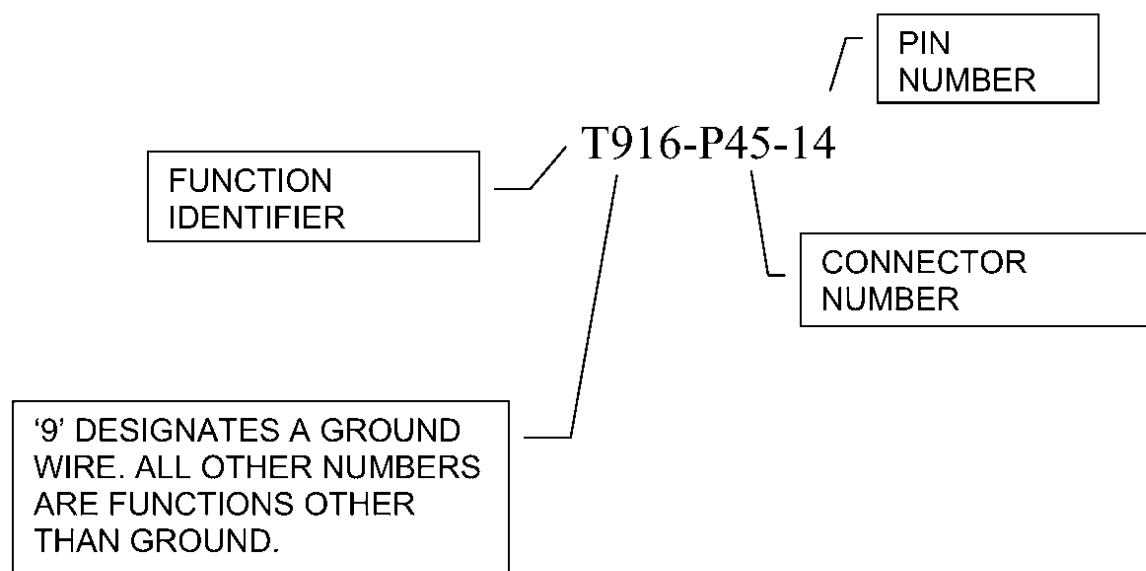


Figure 2 - 1 Wire Numbering Diagram

02-4. FINDING THE AIRCRAFT ZONE A CONNECTOR IS LOCATED IN

The aircraft is divided into zones as seen in Figure 2 - 2. These zones should be used for referencing where in the aircraft a connector can be found. Refer to the Connector Matrix in Chapter 2 to find the connector number and then look under the “Zone” to determine the zone number the connector is located.

For example, if the connector number is 45, the connector matrix indicates the connector can be found in Zone C1. By referring to Figure 2 - 2, Zone C1 is shown as the area of the fuselage from the aft side of the windshield to the back of the cabin door on the left side

02-5. USING BLOCK DIAGRAMS

Block diagrams are provided to indicate the configuration of various electrical systems in the Cessna 400 (LC41-550FG). Block diagrams are not specifically referenced on the connector matrix as are details and are supplied for a secondary reference after the details are referenced. To find the block diagram for a specific system refer to the Block Diagram Log in Table 4 - 1 and turn to the page indicated.

Each block diagram denotes the detail(s) that the connectors may be found on. The  symbol on the block diagrams indicates a reference to a detail number. The Detail Reference List is in Table 4 - 2. Refer to the list and find the number in the triangle then look across to see the detail on which the connector can be found on.

For example  is shown on the block diagram, the detail the connector can be found on is Detail 24 - 2 (LC53242000A2).

02-6. USING DETAILS

After determining the detail number from the Connector Matrix, turn to the detail in Sections 21 through 77, as applicable.

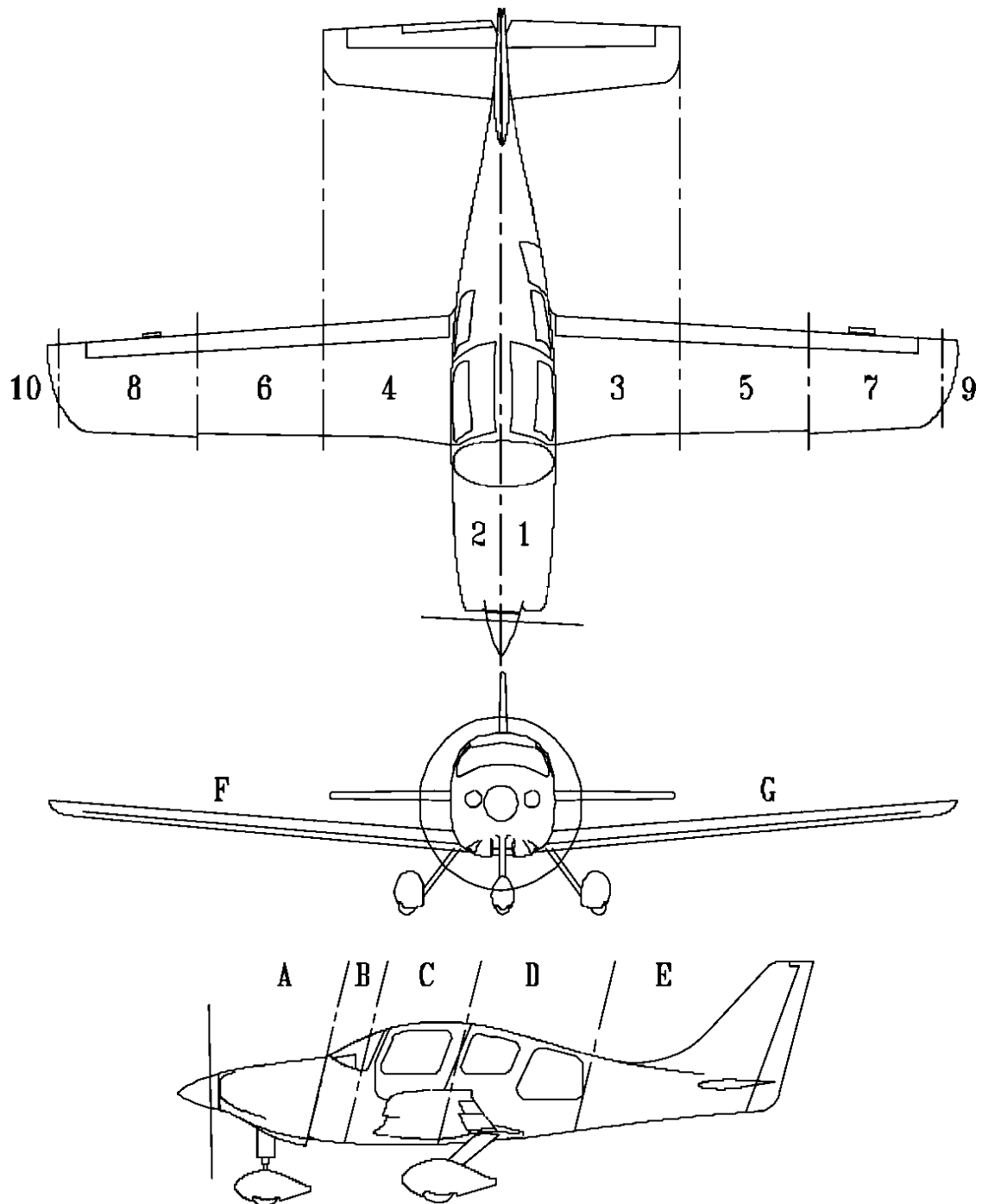


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02-9. LIST OF DETAILS

Detail No.	Title	Drawing No.
Chapter 21		
21 - 1	Ventilation Assembly	LC53210000A1
21 - 2	Fan Assembly Wiring	LA53210018C1
21 - 3	ECS Control Valve	LA53216100A4
21 - 4	Heater Control Assembly	LA53216034A1
21 - 5	ECS Control Valve Servo	LA53216032-2
21 - 6	Heater Fan Wiring	LA53515100D
Chapter 22		
22 - 1	S-Tec 55X Autopilot	LB53220000D1
22 - 2	S-Tec System 55X Autopilot Cable Interface, EFIS	LB53221000A3
22 - 3	S-Tec System 55X Autopilot Cable Assembly 1, EFIS	LB53221001B2
22 - 4	S-Tec System 55X Autopilot Cable Assembly 2, EFIS	LB53221002B1
22 - 5	Autotrim Relay Cable Assembly	LB53221003C
22 - 6	A/P-F/D Master Switch Cable Assembly	LB53221004-
Chapter 23		
23 - 1	GMA 340 Audio Amp Wiring	LB53344310D2
23 - 2	NAV/COM Bypass Switch	LB53511413B
23 - 3	NAV/COM Bypass Wiring	LC53511415-1
Chapter 24		
24 - 1	Electrical Power Cable Distribution	LC71510000D
24 - 2	Power Grid Assembly	LC53242000A2
24 - 3	Power Grid Wiring	LC53512000B1
24 - 4	Circuit Breaker Panel Wiring	LC53514000A4
24 - 5	Wiring to Rocker Switches	LB53511201H
24 - 6	Master Switch Assembly Wiring	LC53511300C
24 - 7	Ground Power Supply System	LC53516000A1
24 - 8	Ground Power Supply System Receptacle Assembly	LC53516001B
Chapter 25		
25 - 1	Compass Attachment	LB53255400-2
25 - 2	Glare Shield Lighting Tube Assembly	LB53254015-

Detail No.	Title	Drawing No.
25 - 3	Control Stick Assembly	LA53271000F1
25 - 4	Avionics Fan Wiring	LB53514700A1
25 - 5	Annunciator Assembly Wiring	LC53514300B1
25 - 6	Wiring for Flight Instrument Lighting	LB53514803B
25 - 7	Aural Warning System Wiring	LC53344201B
25 - 8	Aural Warning System Switch Assembly	LA53344203-4
25 - 9	Carbon Monoxide Detector Wiring	LB53344905-
	Chapter 27	
27 - 1	Trim System Wiring, J44 Connector	LC53313001A
27 - 2	Flap Panel Wiring Assembly	LA53313003D1
27 - 3	Trim System Wiring, J45 Connector	LA53511800L1
27 - 4	Trim Actuator, Elevator Wiring	LA53511801G
27 - 5	Elevator Extension Wiring	LA53511802B
27 - 6	Flap Actuator Wiring Assembly	LA57261015B
27 - 7	Stall Warning Wiring	LC53514400C
27 - 8	Aileron Extension Harness Wiring	LA57273232B
27 - 9	ALC Speedbrakes Wiring	LC53345005A
27 - 10	Speedbrakes Wing Wiring	LB53345007-1
27 - 11	Speedbrakes Switch Assembly Wiring	LB53345003-1
27 - 12	Speedbrakes Circuit Breaker	LB53345009-1
	Chapter 28	
28 - 1	Low Fuel Level Switch and Wiring	LA57280045B1
28 - 2	Fuel Sensors Wiring Assembly	LA57315000D1
28 - 3	Fuel Selector Wiring	LA57282019D
28 - 4	Fuel Boost Pump	LA57283009E1
	Chapter 31	
31 - 1	ELT and HOBBS Wiring	LC53513100A
	Chapter 33	
33 - 1	Wiring For Interior Lighting	LC53514200A
33 - 2	Overhead Wiring	LB53514100B
33 - 3	Wiring for Lighting Terminal Strip	LB53514800-

Detail No.	Title	Drawing No.
33 - 4	Step Light	LA53570005B
33 - 5	Whelen Landing Light and Wiring	LA57331005B
33 - 6	Whelen Taxi Light and Wiring	LA57331007B
33 - 7	Xenon Landing and Taxi Light Assembly	LA57331100A1
33 - 8	Position Light and Wiring	LA57332003B
Chapter 34		
34 - 1	Horizontal Situation Indicator (HSI) (Garmin)	LB53342203-
34 - 2	Terminal Junction Blocks Wiring (Garmin)	LB53343503A
34 - 3	NAV/COM SL30 Basic Package Wiring	LA53344411-
34 - 4	NAV/COM SL30 Wiring	LB53344411-
34 - 5	Electric Artificial Horizon Wiring	LB53511405C1
34 - 6	NAV Antenna Cable Assembly	LA53344407B
34 - 7	Transponder SL70/ALT ENC. Premium IFR Wiring	LA53344503D
34 - 8	Transponder SL70/ALT ENC. Basic IFR Wiring	LA53344505-
34 - 9	GTX 327 Transponder/ALT ENC Wiring	LB53344510-
34 - 10	GTX 330 Transponder Wiring	LB53344511D
34 - 11	GTX 327 Transponder Wiring	LB53344510C
34 - 12	GX50 Premium IFR Wiring	LA53344601B
34 - 13	GNS 430 #1 GPS/COM/NAV, Entegra	LB53344612-
34 - 14	GNS 430 #2 GPS/COM/NAV, Entegra	LB53344613B1
34 - 15	SSD120 Altitude Encoder Wiring, Entegra	LB53344513-
34 - 16	Primary Flight Display Wiring, Entegra	LB53344809A2
34 - 17	EX5000, MFD, Wiring	LB53344702C
34 - 18	Data Aquisition Unit Wiring, EX5000 MFD	LC53344902B
34 - 19	Ryan TCAD Wiring	LB53345201A
34 - 20	XM Weather Wiring	LB53345101-
Chapter 35		
35 - 1	Oxygen System Wiring	LB53351000C
Chapter 52		
52 - 1	Door Seal System	LA53254500-
52 - 2	Door Seal Pump System Wiring	LA53254503B

Detail No.	Title	Drawing No.
52 - 3	Door Seal System Pump	LA53254507A
52 - 4	Door Seal System Dump Valve	LA53254505A
52 - 5	Cabin Door Switch Assembly	LA53514201B
52 - 6	Baggage Door Switch Assembly	LA53514203B
	Chapter 57	
57 - 1	Wing Electrical System Assembly	LB57310000A1
57 - 2	Wing Assembly Wiring	LB57311000A2
57 - 3	Pitot Tube Assembly	LA57312024B
57 - 4	Pitot Tube	LA57312000K1
	Chapter 77	
77 - 1	Engine Sensor Wiring	LC71844505C
77 - 2	Engine Instruments Wiring	LC53511500D1
77 - 3	Engine Scanner Probes Wiring Assembly	LC53343802-

- End of Chapter -

03-0. CONNECTOR MATRIX

This section contains the Connector Matrix that lists and numbers all connectors, lists the aircraft zone where the connector is located, lists the detail the connector is shown on, and gives a brief description of the connector location. Follow the instructions in Chapter 2 to use the Connector Matrix and reference Table 3 - 1 Connector Matrix Log to find the page number for each system.

Table 3.1 Connector Matrix Log

System	Connector Number	Page Number
Firewall Forward	0X	2
Wing	1X	3
Flaps	2X	4
ELT	3X	5
Trim	4X	6
Heater/OAT	5X	7
Circuit Breaker & Power Distribution	6X	8
Fuel Level	7X	10
Lighting Systems	8X	11
Instruments	9X	12
Avionics System	10X	13
Avionics System	11X	15
Instruments	12X	16
Avionics System	13X	17
(Reserved)	14X	18
Instruments	15X	19
Avionics System	16X	20
Avionics System	17X	21
Lighting Systems	18X	22
Avionics Systems	19X	23
Exceptions	20X	24
Avionics	50X	25
Avionics	70X	26
LED Lamps	80X	27
Avionics	90X	28
Relays	KX	29
Switches	SWX	30

Firewall Forward (0x)

Connector	Detail No(s).	Zone	Location Description
01 Engine Indicators (Instruments)	22 – 1, 22 – 2, 22 – 3, 23 – 1, 24 – 6, 24 – 7, 34 – 16, 34 – 18, 77 – 1, 77 – 2, 77 – 3	A1	The connectors are located in the center of the firewall in the engine compartment.
02 Power Distribution Grid	22 – 1, 22 – 2, 22 – 4, 23 – 1, 23 – 3, 24 – 3, 24 – 6, 31 – 1, 34 – 16, 34 – 17, 77 – 2	D1	Connector J2/P2 is located on the top edge of the power distribution grid. The power distribution grid is located behind the rear seats under the baggage floor.
03 Engine Indicating	24 – 5, 24 – 6, 31 – 1, 34 – 17, 77 – 1	A1	The connectors are located in the center of the firewall in the engine compartment.
04 CHT, EGT, and TIT Probes	34 – 18, 77 – 3	B1	Connector J4/P4 is located in the center of the firewall in the engine compartment under connectors 01 and 03.
05			
06 Flow Meter	77 – 1	B1	The connector J6/P6 is located behind the flight instrument panel.
07 Power Distribution Grid	24 – 3, 24 – 6, 77 – 2	D1	Connector J7/P7 is located on the top edge of the power distribution grid. The power distribution grid is located behind the rear seats under the baggage floor
08			
09			

Wing (1x)

Connector	Detail No(s).	Zone	Location Description
10 Main Wing Connector	24 – 5, 27 – 1, 27 – 7, 57 – 2	C2	Connector J10/P10 is located below the co-pilot's control stick, behind the side panel.
11 Left Position Light	33 – 8, 57 – 2	G9	Connector J11/P11 is located at the left position light, left wingtip.
12 Right Position Light	33 – 8, 57 – 2	F10	Connector J12/P12 is located at the right position light, right wingtip.
13 Taxi Light	33 – 6, 33 – 7, 57 – 2	G5	Connector J12/P13 is located at the taxi light, center of left wing.
14 Aileron Trim Pigtail	27 – 1, 27 – 8, 57 – 2	F8	Connector J14/P14 is located just inside the aileron wing cove, right wing, outboard.
15 Fuel Boost Pump	28 – 4, 57 – 2	C1	Connector J15/P15 is located behind the forward belly access panel.
16 Pitot Heat Cartridge	57 – 2, 57 – 3, 57 – 4	F8	Connector J16/P16 is located inside the access panel, right wing, outboard.
17 Left Strobe	33 – 8, 57 – 2	G9	Connector J17/P17 is located at the left strobe light in the left wingtip.
18 Right Strobe	33 – 8, 57 – 2	F9	Connector J18/P18 is located at the right strobe light in the right wingtip.
19 Landing Light	33 – 5, 33 – 7, 57 – 2	G5	Connector J19/P19 is located at the landing light, center of left wing.

Flaps (2x)

Connector	Detail No(s).	Zone	Location Description
20 Flap Actuator Connector	27 – 2, 27 – 6	D2	Connector J20/P20 is located at the flap actuator.
21 Flap Switch Connector	27 – 1, 27 – 2, 34 – 19, 57 – 2	C2	Connector J21/P21 is located behind the flap switch.
22			
23			
24			
25			
26			
27			
28			
29			

ELT (3x)

Connector	Detail No(s).	Zone	Location Description
30 ELT Remote Unit	31 – 1	C2	Connector J30/P30 is located in the right knee bolster.
31 ELT Switch	31 – 1	E2	Connector J31/P31 is located on the antenna shelf, behind the ELT access panel.
32			
33			
34			
35 Ignition Switch	24 – 6	B1	Connector J35/P35 is located behind the master switch panel (left side of instrument panel).
36			
37			
38			
39			

Trim (4x)

Connector	Detail No(s).	Zone	Location Description
40 Control Stick Assembly, Co-Pilot Trim	25 – 3, 25 – 4, 27 – 3	C2	Connector J40/P40 is located at the bottom of the right control stick.
41			
42 Elevator Trim	27 – 3, 27 – 4, 27 – 5	E4	Connector J42/P42 is located at the elevator trim actuator.
43 Elevator Trim	27 – 3, 27 – 4, 27 – 5	E4	Connector J43/P43 is located at the forward side of the rudder.
44 Trim Assembly	23 – 3, 24 – 5, 25 – 3, 27 – 1, 27 – 2, 35 – 1	C1	Connector J44/P44 is located in back of the trim panel.
45 Trim Assembly	22 – 2, 22 – 5, 27 – 3	C1	Connector J45/P45 is located at the back of the trim panel.
46 Pilot “PTT”	23 – 1, 25 – 3, 34 – 3, 34 – 4	C1	Connector J46/P46 is located at the bottom of the left control stick.
47 Co-Pilot “PTT”	23 – 1, 25 – 3, 34 – 3, 34 – 4	C2	Connector J47/P47 is located at the bottom of the right control stick.
48 Pilot Control Trim	25 – 3, 27 – 1	C1	Connector J48/P48 is located at the bottom of the left control stick.
49			

Heater/OAT (5x)

Connector	Detail No(s).	Zone	Location Description
50 Cabin Heater	21 – 2, 21 – 5, 21 – 6	C2	Connector J50/P50 is located at the cabin heater fan.
51			
52			
53			
54			
55			
56 Heater Control Box Servo	21 – 3, 21 – 4, 21 – 5	B2	Connector J56/P56 is located at the servo mounted to the inside firewall.
57 Heater Control Box Circuit Card	21 – 4	B2	Connector J57/P57 is located at the heater control valve behind the control knobs.
58			
59			

Circuit Breakers & Power Distribution (6x)

Connector	Detail No(s).	Zone	Location Description
60			
61 CB Panel Avionics Harness	21 – 4, 21 – 6, 24 – 4, 24 – 5, 24 – 6, 25 – 5, 27 – 7, 31 – 1, 33 – 1, 33 – 3, 34 – 5, 34 – 16, 34 – 18, 77 – 2	B1	Connector J61/P61 is located forward of the circuit breaker panel, behind the parking brake panel. The circuit breaker panel is located on the lower left side of the aircraft, just in front of the pilot seat.
62 CB Panel Engine Harness	23 – 1, 23 – 2, 23 – 3, 24 – 4, 25 – 4, 25 – 7, 31 – 2, 34 – 1, 34 – 3, 34 – 4, 34 – 7, 34 – 8, 34 – 9, 34 – 10, 34 – 11, 34 – 12, 34 – 14, 34 – 15, 34 – 17, 34 – 18, 34 – 19, 34 – 20, 77 – 2	B1	Connector J62/P62 is located forward of the circuit breaker panel, behind the parking brake panel. The circuit breaker panel is located on the lower left side of the aircraft, just in front of the pilot seat.
63 CB Panel Main Harness	24 – 4, 24 – 5, 24 – 8, 25 – 5, 27 – 1, 27 – 2, 27 – 9, 34 – 16, 34 – 18, 35 – 1	B1	Connector J63/P63 is located forward of the circuit breaker panel, behind the parking brake panel. The circuit breaker panel is located on the lower left side of the aircraft, just in front of the pilot seat.
64 Voltage Regulator	24 – 6	B2	Connector J64/P64 is located at the voltage regulator. The voltage regulator is located on the upper left quadrant of the remote unit assembly panel. This connector is for the left alternator.

Connector	Detail No(s).	Zone	Location Description
65 Voltage Regulator (Right)	24 – 6	B2	Connector J65/P65 is located at the voltage regulator. The voltage regulator is located on the upper left quadrant of the remote unit assembly panel. The two regulators are stacked upon each other and mounted to the remote unit assembly panel.
66			
67 NAV/COM Bypass Switch	23 – 2, 23 – 3, 34 – 19, 27 – 1	A1	Connector J67/P67 is located on the back of the flight instrument panel, next to the clock
68			
69			

Fuel Level (7x)

Connector	Detail No(s).	Zone	Location Description
70			
71 Fuel Level Senders	57 – 2, 77 – 2	B2	Connector J71/P71 is located below the right side control stick, behind the side panel.
72 Low Level Sensor	57 – 2	C3	Connector J72/P72 is located under the footwell in left wing cove.
73 Low Level Sensor	57 – 2	C4	Connector J73/P73 is located under the footwell in the right wing cove.
74 Fuel Valve	25 – 5, 28 – 3	C2	Connector J74/P74 is located on top of the fuel valve body.
75			
76			
77			
78			
79			

Lighting Systems (8x)

Connector	Detail No(s).	Zone	Location Description
80 Baggage Door Switch	33 – 1, 52 – 6	D1	Connector J80/P80 is located at the switch, on the fuselage, forward of the baggage door.
81 Overhead Connector	27 – 7, 33 – 1, 33 – 2	C2	Connector J81/P81 is located in the overhead lighting panel.
82 CLA-500 Light Dimmer Power Supply	33 – 1	B2	Connector J82/P82 is located at the dimmer power supply. The dimmer power supply is mounted to the Remote Unit Assembly, on the right, inside of the firewall.
83 Lower Control Assembly	33 – 1	B2	Connector J83/P83 is located at the control unit mounted into the left knee bolster.
84 Pilot Step Light	33 – 1	D3	Connector J84/P84 is located at the light, forward of the step, on the left side exterior of the fuselage.
85 Passenger Step Light	24 – 7, 33 – 1	D4	Connector J85/P85 is located at the light, forward of the step, on the right side exterior of the fuselage.
86 Overhead Light Control Assembly	33 – 2	C2	Connector J86/P86 is located in the overhead lighting panel at the dimmer control.
87 Baggage Overhead Light	33 – 2	D2	Connector J87/P87 in the overhead lighting panel at the junction of the forward and aft panels.
88 Pilot Door Switch	33 – 1, 52 – 5	C3	Connector J88/P88 is located at the switch mounted to the fuselage.
89 Co-Pilot Door Switch	33 – 1, 52 – 5	C4	Connector J89/P89 is located at the switch mounted to the fuselage.

Instruments (9x)

Connector	Detail No(s).	Zone	Location Description
90 Manifold Press/Fuel Flow Ind.	34 – 18, 77 – 2	B1	Connector J90/P90 is located at the back of the instrument. The engine instrument panel is located in the instrument panel on the left side.
91 CHT / TIT Ind.	77 – 2	B1	Connector J91/P91 is located at the back of the instrument. The engine instrument panel is located in the instrument panel on the left side.
92 Oil Temp / Press Ind.	34 – 18, 77 – 2	B1	Connector J92/P92 is located at the back of the instrument. The engine instrument panel is located in the instrument panel on the left side.
93 Dual Fuel Level Ind.	77 – 2	B1	Connector J93/P93 is located at the back of the instrument. The engine instrument panel is located in the instrument panel on the left side.
94			
95 Tach Ind.	34 – 18, 77 – 2	B1	Connector J95/P95 is located at the back of the instrument. The engine instrument panel is located in the instrument panel on the left side.
96			
97			
98			
99			

Avionics System (10x)

Connector	Detail No(s).	Zone	Location Description
100 Audio Panel PMA6000 Top (SL15) (Garmin AT)	23 – 1	B1	Connector J100/P100 is located at the rear of the radio unit. The radios are mounted in the radio rack, below the instrument panel, in the center of the aircraft between the two pilot seats.
101 Audio Panel PMA6000 Bottom (Garmin AT)	23 – 1	B1	Connector J101/P101 is located at the rear of the radio unit. The radios are mounted in the radio rack, below the instrument panel, in the center of the aircraft between the two pilot seats.
102 GX-50 GPS (Garmin AT)	34 – 12	B1	Connector J102/P102 is located at the rear of the radio unit. The radios are mounted in the radio rack, below the instrument panel, in the center of the aircraft between the two pilot seats.
103 GX-50 GPS (Garmin AT)	34 – 12	B1	Connector J103/P103 is located at the rear of the radio unit. The radios are mounted in the radio rack, below the instrument panel, in the center of the aircraft between the two pilot seats.
104 SL30 (#1) (Garmin AT)	34 – 6, 34 – 7	B1	Connector J104/P104 is located at the rear of the radio unit. The radios are mounted in the radio rack, below the instrument panel, in the center of the aircraft between the two pilot seats.
105 SL30 (#2) (Garmin AT)	34 – 6, 34 – 7	B1	Connector J105/P105 is located at the rear of the radio unit. The radios are mounted in the radio rack, below the instrument panel, in the center of the aircraft between the two pilot seats.

Connector	Detail No(s).	Zone	Location Description
106 Entertainment Stereo Audio (Garmin AT)	23 – 1	B2	Connector J106/P106 is located in the wire bundle running along the right side of the radio rack.
107			
108 Altitude Encoder RS-232 (GPS)	34 – 7, 34 – 8, 34 – 9, 34 – 15	B2	Connector J108/P108 is located at the terminal junction block. The terminal junction blocks are located on the right vertical of the rear of the instrument panel.
109 Acknowledge Switch – Aural Warning	25 – 7, 25 – 8	B1	Connector J109/P109 is located at the back of the flight instrument panel, below the annunciator panel. The flight instrument panel is located in the instrument panel just left of center.

Avionics System (11x)

Connector	Detail No(s).	Zone	Location Description
110			
111 Speaker Interconnect	23 – 1, 33 – 1, 34 – 3, 34 – 4	B2	Connector J111/P111 is located in the wire bundle running along the left side of the radio rack.
112			
113 ELT/HOBBS Panel	31 – 1	B2	Connector J113/P113 is located behind the right knee bolster.
114 Annunciator Panel	24 – 5, 24 – 6, 25 – 5, 25 – 7, 27 – 9, 33 – 1, 35 – 1, 77 – 2	B1	Connector J114/P114 is located at the back of the annunciator panel. The annunciator panel is located at the top of the flight instrument panel in the instrument panel directly forward of the left pilot seat.
115			
116 Avionics Cooling Fan	25 – 4	B2	Connector J116/P116 is located inside the rear of the radio rack.
117 SL70 Transponder	34 – 7, 34 – 8, 34 – 10, 34 – 19	B2	Connector J117/P117 is located at the rear of the radio unit. The radios are mounted in the radio rack, below the instrument panel, in the center of the aircraft between the two pilot seats.
118			
119 Stall Warn Horn	33 – 2	C2	Connector J119/P119 is located at the horn in the overhead lighting panel.

Instruments (12x)

Connector	Detail No(s).	Zone	Location Description
120			
121 Remote Marker Lights	23 – 1	B1	Connector J121/P121 is located at the back of the flight instrument panel.
122 Autopilot Disconnect Switch	22 – 1, 22 – 2	C1	Connector J122/P122 is located at the base of the pilot's control stick assembly.
123 FD/AP Master Switch	22 – 1, 22 – 2, 22 – 3, 22 – 6, 34 – 16	B1	Connector J123/P123 is located at the back of the flight instrument panel.
124			
125			
126			
127			
128 Electrical Artificial Horizon Indicator (EAHI)	34 – 5, 34 – 15	B1	Connector J128/P128 is located at the back of the flight instrument panel.
129			

Avionics Systems (13x)

Connector	Detail No(s).	Zone	Location Description
130 Entegra Magnetometer/OAT or Flux Valve, KMT 112	34 – 1, 34 – 16, 57 – 2	C2	Connector J130/P130 is located below the right side control stick, behind the side panel.
131 Entegra Magnetometer/OAT or KMT 112 (WING, OB)	34 – 1, 57 – 2	C7	Connector J131/P131 is located at the flux valve in the left wing.
132 Digital Recorder – Aural Warning System	22 – 2, 23 – 1, 24 – 6, 25 – 7, 34 – 10, 34 – 19	C2	Connector J132/P132 is located on the lower forward right hand side of the radio rack <u>or</u> on the forward facing ventilation plate of the radio rack.
133			
134 Traffic/Acknowledge Switch	34 – 19	C1	Connector J134/P134 is located behind the traffic/acknowledgment switch on the lower left side of the instrument panel.
135 SSD120 Altitude Encoder	34 – 19	C2	Connector J135 is located inside the cabin on the firewall on the co-pilot's side.
136			
137			
138			
139 Reserved			

(Reserved) (14x)

Connector	Detail No(s).	Zone	Location Description
140			
141			
142			
143			
144			
145			
146			
147			
148			

Flight Instruments (15x)

Connector	Detail No(s).	Zone	Location Description
150 Altimeter	25 – 6	B1	Connector J150/P150 is located at the back of the instrument in the flight instrument panel. The flight instrument panel is mounted into the instrument panel directly in front of the left pilot seat.
151			
152			
153			
154 Glare Shield	25 – 2, 25 – 6	B1	Connector J154/P154 is located at the back of the instrument in the flight instrument panel. The flight instrument panel is mounted into the instrument panel directly in front of the left pilot seat.
155 Air Speed	25 – 6	B1	Connector J155/P155 is located above the engine instrument panel. The engine instrument panel is mounted into the instrument panel to the right of the flight instrument panel, directly in front of the left pilot seat.
156			
157			
158 Dual Ammeter	34 – 18, 77 – 2	B1	Connector J158/P158 is located at the back of the engine instrument panel
159			

Avionics System (16x)

Connector	Detail No(s).	Zone	Location Description
160 Speedbrakes, Wing Connector	27 – 9, 27 – 10	F4	The connector is located in the mating area of the right wing to the fuselage.
161 Speedbrake Annunciator	27 – 7, 27 – 9	D1	Connection J161 is located on the Asymmetric Logic Control (ALC) on the avionics shelf under the baggage compartment.
162 Right Speedbrake Cartridge	27 – 9	D1	Connection P162 is located on the ALC on the avionics shelf under the baggage compartment.
163 Left Speedbrake Cartridge	27 – 9	D1	Connection P163 is located on the ALC on the avionics shelf under the baggage compartment.
164 Right Speedbrake Wing Connector	27 – 10	F6	Connector J164 is located within the outboard right wing.
165 Left Speedbrake Wing Connector	27 – 10	G5	Connector J165 is located within the outboard right wing.
166 Speedbrake Master Switch	27 – 9, 27 – 11	B1	Connector J166/P166 is located behind the fuel mixture control panel in the instrument panel.
167			
168			
169			

Avionics System (17x)

Connector	Detail No(s).	Zone	Location Description
170			
171			
172			
173			
174			
175			
176			
177			
178 Right RB125 Converter	34 – 16	D1	The J178/P178 is connector is located on the avionics shelf. The avionics shelf is located behind the rear seats under the baggage floor.
179 Left RB125 Converter	34 – 16	D1	The J179/P179 is connector is located on the avionics shelf. The avionics shelf is located behind the rear seats under the baggage floor.

Lighting Systems (18x)

Connector	Detail No(s).	Zone	Location Description
180 Strobe Power Supply	24 – 5	B2	Connector J180/P180 is located at the strobe power supply. The strobe power supply is mounted to the floor in front of the radio rack.
181 Strobe Power Supply	24 – 5	B2	Connector J181/P181 is located at the strobe power supply. The strobe power supply is mounted to the floor in front of the radio rack.
182 Strobe Power Supply	24 – 5	B2	Connector J182/P182 is located at the strobe power supply. The strobe power supply is mounted to the floor in front of the radio rack.
183 Strobe Power Supply	24 – 5	B2	Connector J183/P183 is located at the strobe power supply. The strobe power supply is mounted to the floor in front of the radio rack.
184 Compass Lighting	25 – 1, 33 – 2	C1	Connector J184/P184 is located at the strobe power supply. The strobe power supply is mounted to the floor in front of the radio rack.
185 Xenon Ballast Power in	33 – 7	G7	Connector J185/P185 is located at the xenon light ballast
186 Xenon Ballast HV out	33 – 7	G7	Connector J186/P186 is located at the xenon light ballast
187 Xenon Light Bulb	33 – 7	G5	Connector J187/P187 is located at the xenon light ballast
188 LED Lighting, Right Knee Bolster	24 – 5	B2	Connector J188/P188 is located behind the right knee bolster.
189 LED Lighting, Left Knee Bolster	24 – 5	B1	Connector J189/P189 is located behind the right knee bolster.

Avionics Systems (19x)

Connector	Detail No(s).	Zone	Location Description
190 Carbon Monoxide Detector	25 – 9	B1	Connector J190/P190 is located at the carbon monoxide detector behind the left side of the instrument panel.
191 Carbon Monoxide Test Switch	25 – 9	B1	Connector J191/P191 is located at the back of the switch on the left side of the instrument panel.
192			
193 Oxygen Logic Display	27 – 1, 35 – 1	B2	Connector J193/P193 is located at the back of the oxygen logic display which is on the right side of the instrument panel.
194 Oxygen Manifold Valve	35 – 1	C2	Connector J194/P194 is located at oxygen manifold valve which is mounted to the right wing and behind the aft seats footwell.
195 Oxygen Low Pressure Transducer	35 – 1	C2	Connector J195/P195 is located behind the forward overhead light panel.
196			
197			
198			
199			

Exceptions (20x)

Connector	Detail No(s).	Zone	Location Description
201 Aileron Trim	27 – 3, 27 – 10	F8	Connector J201/P201 is located at the aileron trim motor, inside the right aileron.
202 Low Fuel Level Switch	28 – 3, 28 – 2, 57 – 2	G3 LEFT	Connector J202/P202 is located under the footwell in the left wing cove.
		F4 RIGHT	Connector J202/P202 is located under the footwell in the right wing cove
203 Step Lights	33 – 4	D3 LEFT	Connector J203/P203 is located at the left step light.
		D4 RIGHT	Connector J203/P203 is located at the right step light.

Avionics (50x)

Connector	Detail No(s).	Zone	Location Description
530 EX5000	34 – 17, 34 – 18, 34 – 19, 34 – 20	B2	Connector is located at the rear of the EX5000 panel in the center of the instrument panel.
550 XM Weather	34 – 20	D1	Connector is on the XM Weather Receiver located on the avionics shelf under the baggage compartment
551 XM Weather	34 – 20	B2	Connector is located at the rear of the EX5000 panel in the center of the instrument panel.
560 Ryan TCAD	34 – 19	D1	Connector is on the Ryan TCAD located on the avionics shelf under the baggage compartment
561 Ryan TCAD	34 – 19	D1	Connector is on the Ryan TCAD located on the avionics shelf under the baggage compartment
562 Ryan TCAD	34 – 19	D1	Connector is on the Ryan TCAD located on the avionics shelf under the baggage compartment

Avionics (70x)

Connector	Detail No(s).	Zone	Location Description
730 Entegra PFD	34 – 16	B2	Connector is located at the rear of the PFD panel in the center of the instrument panel.
732 Entegra PFD	34 – 16	B2	Connector is located at the rear of the PFD panel in the center of the instrument panel.
733 Entegra PFD	34 – 16	B2	Connector is located at the rear of the PFD panel in the center of the instrument panel.

LED Lamps (80x)

Connector	Detail No(s).	Zone	Location Description
801 Heater Control Assembly LED Lighting	27 – 1	B2	Connector J801/P801 is located on the back of the heater control panel, behind the knobs.
802 Master Switch Assembly, LED Lighting	27 – 1	B1	Connector J802/P802 is located on the back of the master switch panel, behind the ignition switch.

Avionics (90x)

900			
901 Entegra MFD Data Acquisition Unit (DAU)	34 – 18	B1	Connector is part of the DAU and is located on the radio rack.
902 Entegra MFD Data Acquisition Unit (DAU)	34 – 18	B1	Connector is part of the DAU and is located on the radio rack.

Relays (KX) *

Connector	Detail No(s).	Zone	Location Description
K 1 Stall Warning	27 – 7	B2	Relay is located on the lower flange of the standby battery bracket.
K 3 Battery Master (P3)	24 – 3	A1	Relay is located on the Power Grid Panel.
K 4 Starter (P3)	24 – 3	A1	Relay is located on the Power Grid Panel.
K 5 Avionics Master (P3)	24 – 3	A1	Relay is located on the Power Grid Panel.
K 6 Alternator Output (P3)	24 – 3	A1	Relay is located on the Power Grid Panel.
K 7 Auto Fuel Boost	24 – 5	B2	Relay is located on the lower flange of the standby battery bracket.
K 8 Battery Master (#2)	24 – 3	A1	Relay is located on the Power Grid Panel.
K 9 Alternator Output (#2)	24 – 3	A1	Relay is located on the Power Grid Panel.
K 10 Bus (#1)	24 – 3	A1	Relay is located on the Power Grid Panel.
K 11 Bus (#2)	24 – 3	A1	Relay is located on the Power Grid Panel.
K 12 Ground Power Supply	24 – 3	A1	Relay is located on the Power Grid Panel.
K 16 NAV/COM Bypass Relay	23 – 3, 34 – 21	A1	Relay is located on the center gusset attached to the interior of the firewall.
K 17 GPSS Roll Steering	34 – 16	B1	Relay is located above the Environmental Control system on the pilot's side

* Relays are not connectors, but are composed of solder joints and/or crimp terminals

Switches (SWx)

Connector	Detail No(s).	Zone	Location Description
SW01 Left ALT/BATT	24 – 6	B1	Dual rocker switch located on the Master Switch panel.
SW02 Right ALT/BATT	24 – 6	B1	Dual rocker switch located on the Master Switch panel.
SW03 Crosstie	24 – 6, 27 – 3	B1	Lighted rocker switch located on the Master Switch panel.
SW04 Avionics Master	24 – 6	B1	Lighted rocker switch located on the Master Switch panel.
SW05 Position Lights	24 – 5	B1	Lighted rocker switch located on the Rocker Switch panel.
SW06 Strobe Lights	24 – 5	B1	Lighted rocker switch located on the Rocker Switch panel.
SW07 Landing Lights	24 – 5	B1	Lighted rocker switch located on the Rocker Switch panel.
SW08 Taxi Light	24 – 5	B1	Lighted rocker switch located on the Rocker Switch panel.
SW09 Pitot Heat	24 – 5	B1	Lighted rocker switch located on the Rocker Switch panel.
SW10 Vapor Suppress	24 – 5	B1	Lighted rocker switch located on the Rocker Switch panel.
SW11 Backup Pump	24 – 5	B1	Lighted rocker switch located on the Rocker Switch panel.
SW12 Door Seals	24 – 5	B1	Lighted rocker switch located on the Rocker Switch panel.
SW14 Boost Pump	24 – 5	A1	Boost pump pressure switch located on the engine.
SW15 Cabin Heater Fan Switch	21 – 6	B1	Lighted rocker switch located on the Rocker Switch panel.

- End of Chapter -

04-0. BLOCK DIAGRAMS

This section contains block diagrams for the electrical system in the Cessna 400 (LC41-550FG). Reference the Block Diagram Log to determine the block diagram required and go to the page number indicated for that diagram.

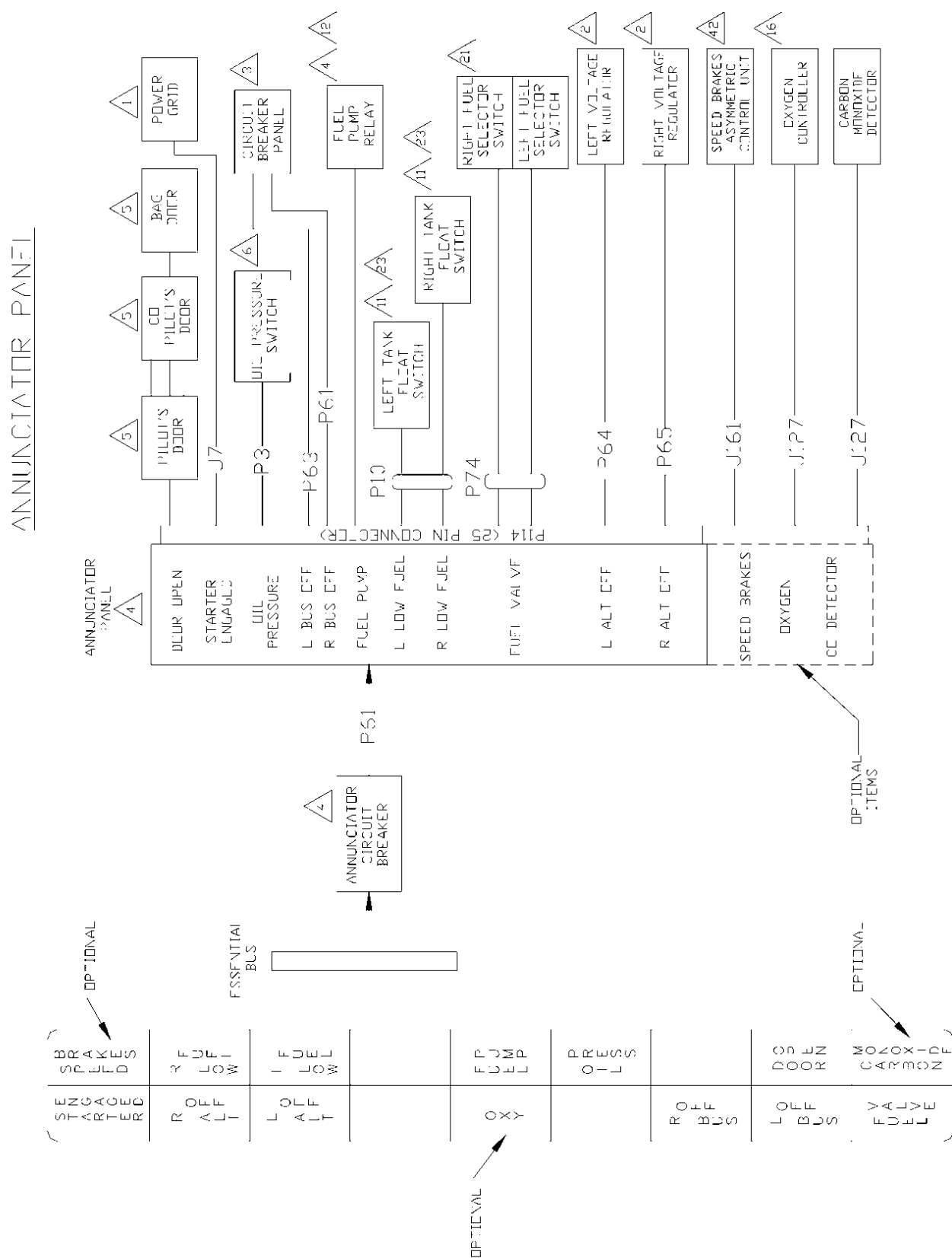
Table 4.1 Block Diagram Log

Block Diagram	Page Number
ANNUNCIATOR PANEL	3
CHARGING CIRCUIT	5
COURTESY LIGHTS	6
DOOR PUMP	7
IGNITION SWITCH	7
EMERGENCY LOCATOR TRANSMITTER	8
PITOT STATIC	8
ENGINE INSTRUMENTS AND GAUGES	9
ENVIRONMENTAL CONTROL SYSTEMS	10
TURN COORDINATOR	10
FAN	11
FUEL BOOST PUMP	12
HOUR METER & PITOT HEAT	13
LIGHT DIMMER POWER SUPPLY	14
POSITION LIGHTS	14
LT-1	15
LT-2	15
LT-3	16
LT-4	17
FLAP ACTUATOR	17
STALL WARNING	18
STARTING CIRCUIT	19
STROBE LIGHTS	20
LANDING LIGHT	21
TAXI LIGHT	21
TRIM PANEL LIGHT TEST SWITCH	22
TRIM PANEL	23
AUTOPILOT	24
SPEEDBRAKES	25
PFD	26
MFD	27

Table 4.2 Detail Reference List

Block Diagram Reference Number	Drawing Number
1	Detail 24 - 3 (LC53512000B1)
2	Detail 24 - 6 (LC53511300C)
3	Detail 24 - 4 (LC53514000A4)
4	Detail 25 - 5 (LC53514300B1)
5	Detail 33 - 1 (LC53514200A)
6	Detail 77 - 1 (LC71844505C)
7	Detail 31 - 1 (LC53513100A)
8	Detail 27 - 7 (LC53514400C)
9	Detail 33 - 2 (LB53514100B)
10	Detail 77 - 3 (LC53343802-)
11	Detail 57 - 2 (LB57311000A2)
12	Detail 24 - 5 (LB53511201H)
13	Detail 25 - 2 (LB53254015-)
14	Detail 77 - 2 (LC53511500D1)
15	Not Used
16	Detail 35 - 1 (LB53351000C)
17	Detail 21 - 4 (LA53216034A)
18	Detail 21 - 6 (LA53515100D)
19	Detail 27 - 3 (LA53511800L1)
20	Not Used
21	Detail 28 - 3 (LA57282019D)
22	Detail 27 - 1 (LC53313001A) Detail 27 - 8 (LA57273232B)
23	Detail 28 - 1 (LA57280045B1)
24	Not Used
25	Not Used
26	Detail 24 - 1 (LC71510000D)
27	Detail 27 - 6 (LA57261015B)
28	Detail 27 - 2 (LA53313003C)
29	Detail 57 - 4 (LA57312000K1)
30	Not Used
31	Not Used
32	Not Used
33	Not Used
34	Not Used
35	Detail 25 - 6 (LB53514803B)
36	Not Used
37	Detail 28 - 4 (LA57283009E1)
38	Detail 52 - 2 (LA53254503)

Block Diagram Reference Number	Drawing Number
39	Detail 23 - 3 (LC53511415-1)
40	Detail 28 - 2 (LA57315000D1)
41	Detail 22 - 2 (LB53221000A3)
42	Detail 27 - 9 (LC53345005A)
43	Detail 22 - 3 (LB53221001B2)
44	Detail 22 - 5 (LB53221003C)
45	Detail 22 - 6 (LB53221004-)
46	Detail 27 - 10 (LB53345007-)
47	Detail 27 - 12 (LB53345009-1)
48	Detail 34 - 16 (LB53344809A2)
49	Detail 34 - 17 (LB53344702C)



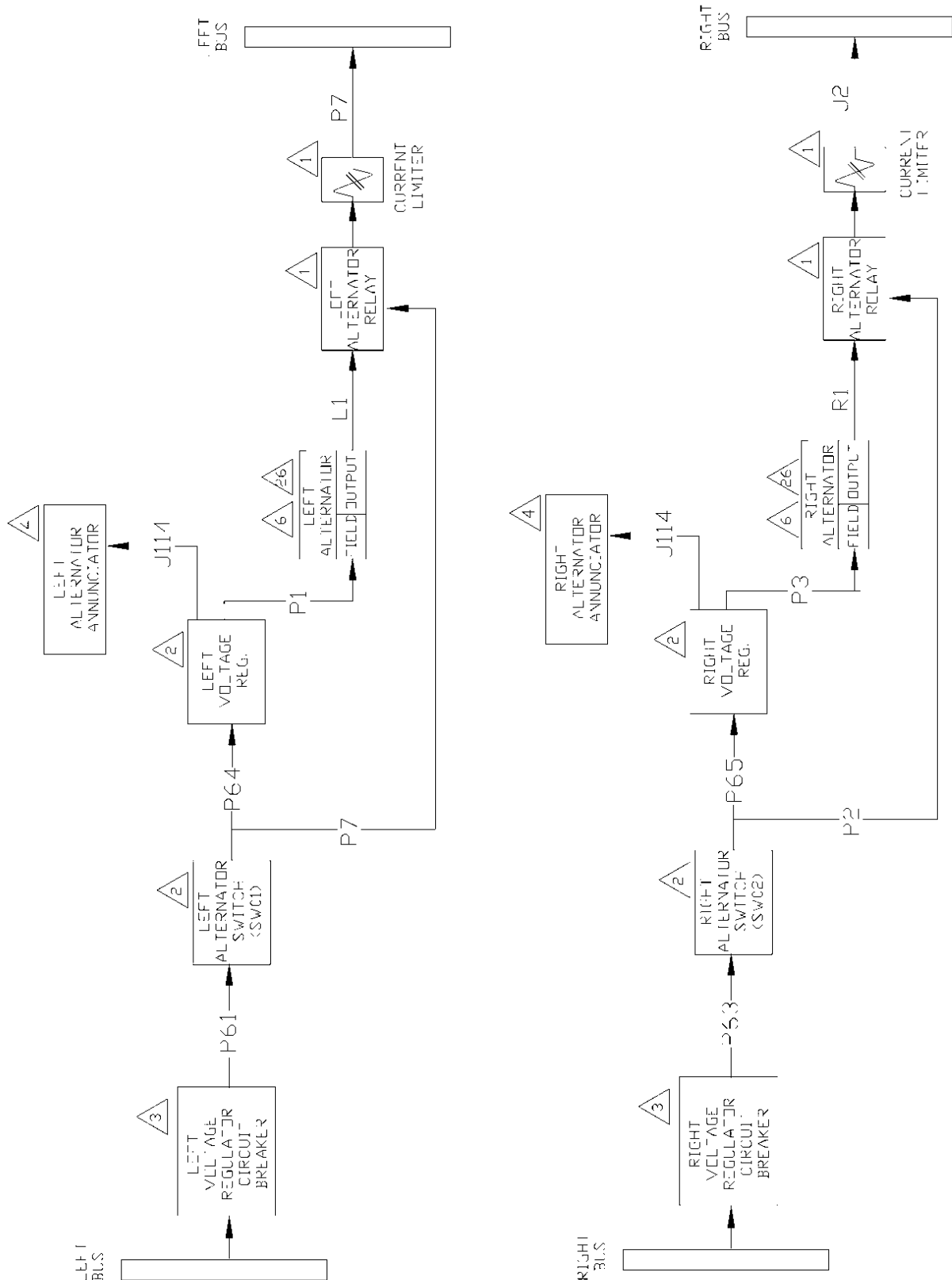


Figure 4 - 2 Charging Circuit

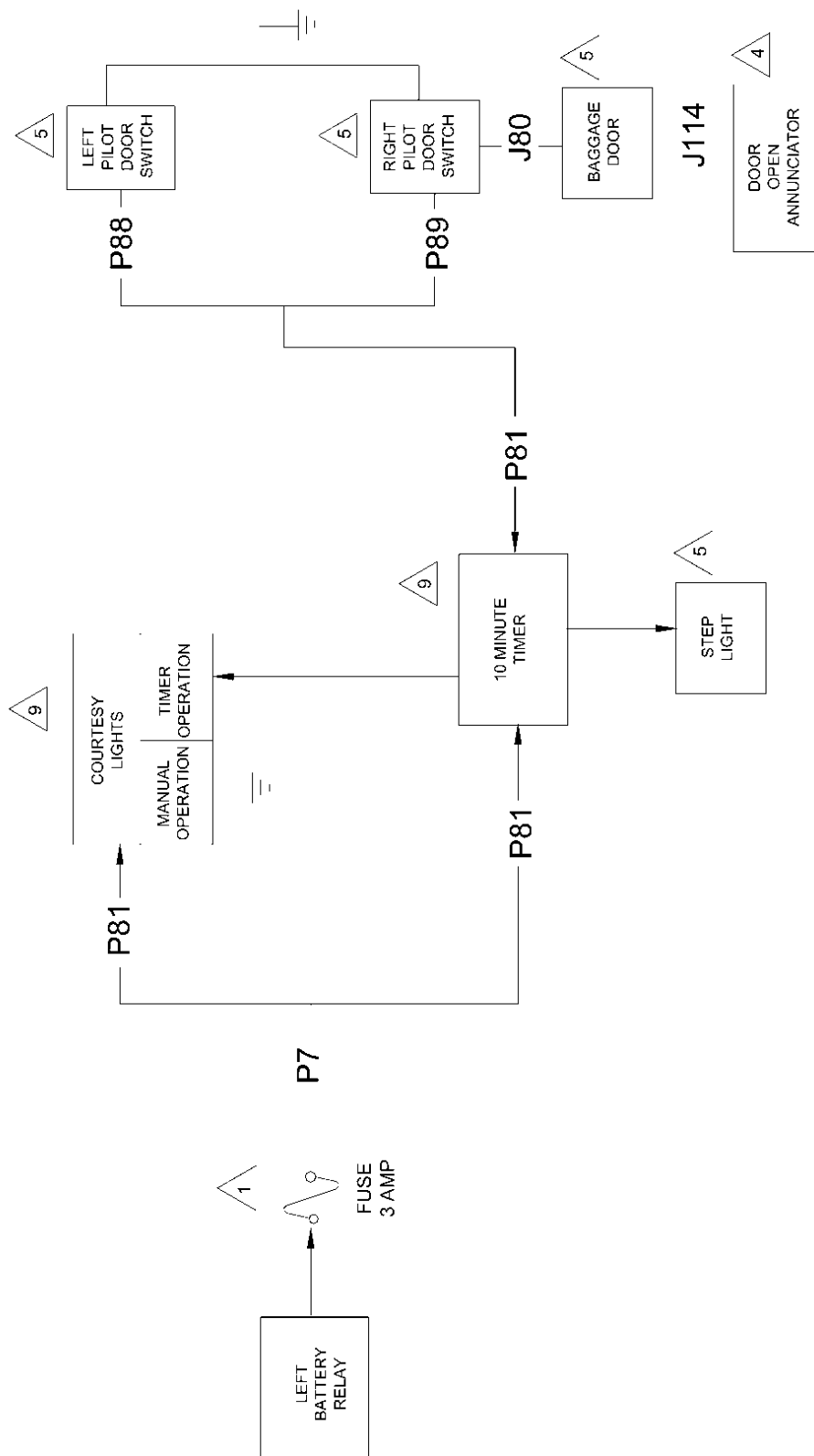
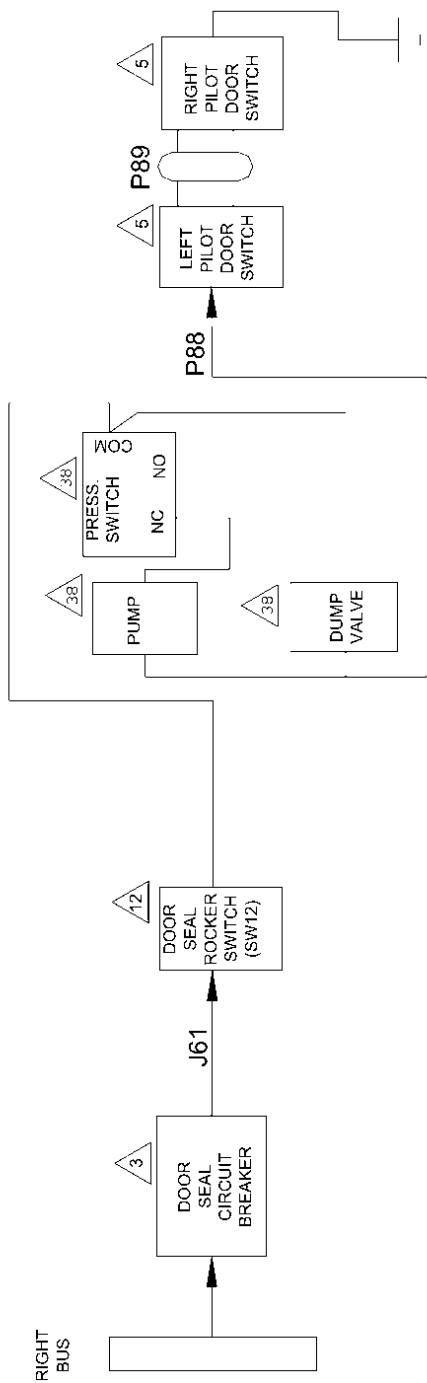


Figure 4 - 3 Courtesy Lights

DOOR SEAL PUMP



IGNITION SWITCH (MAGNETO)

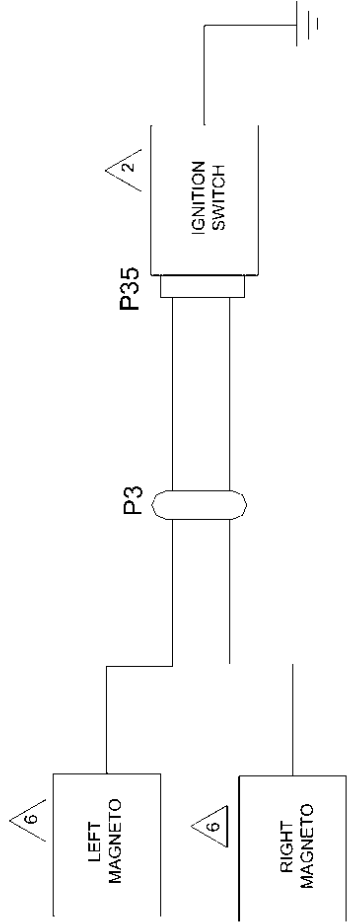


Figure 4 - 4 Door Pump & Ignition Switch

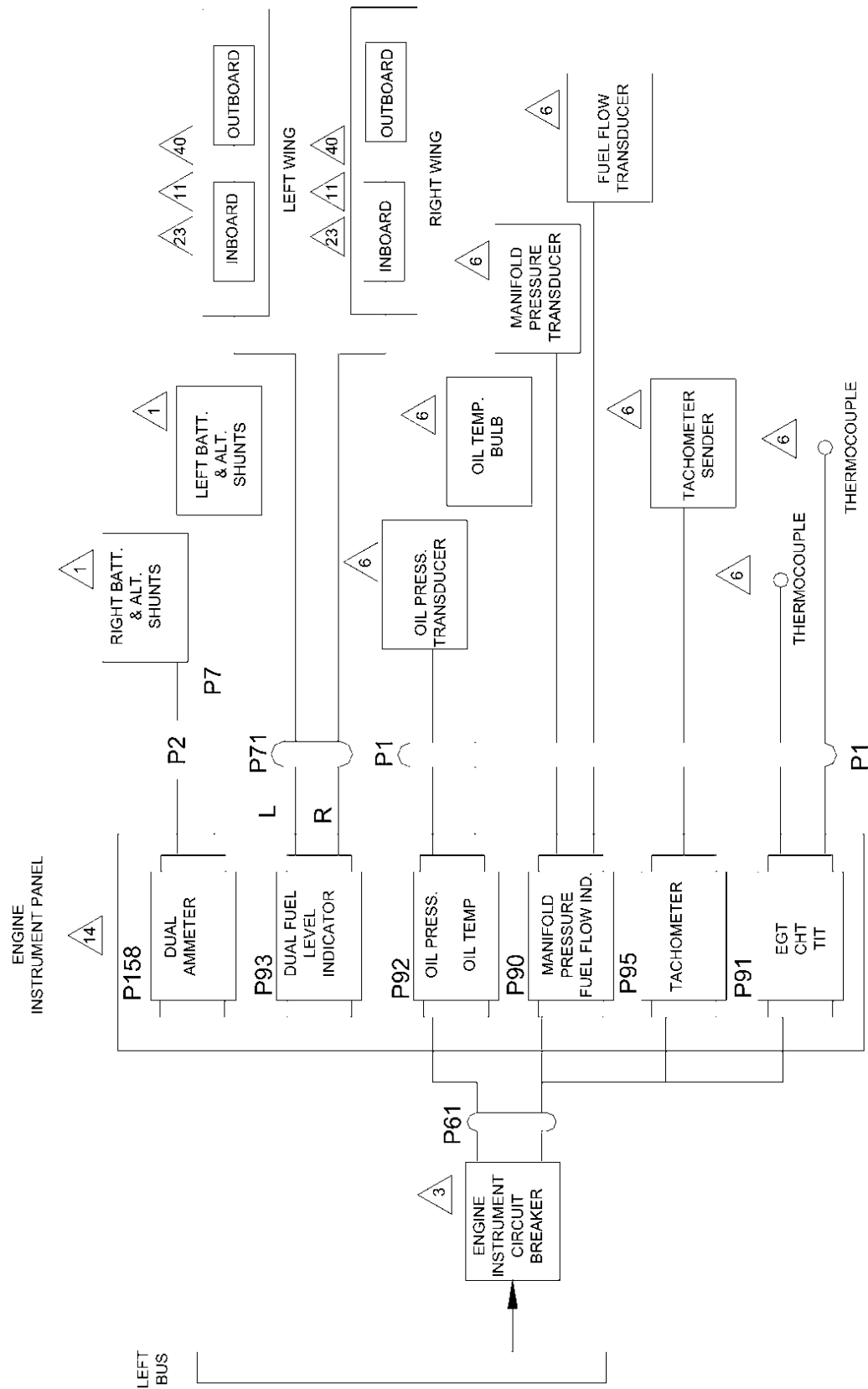
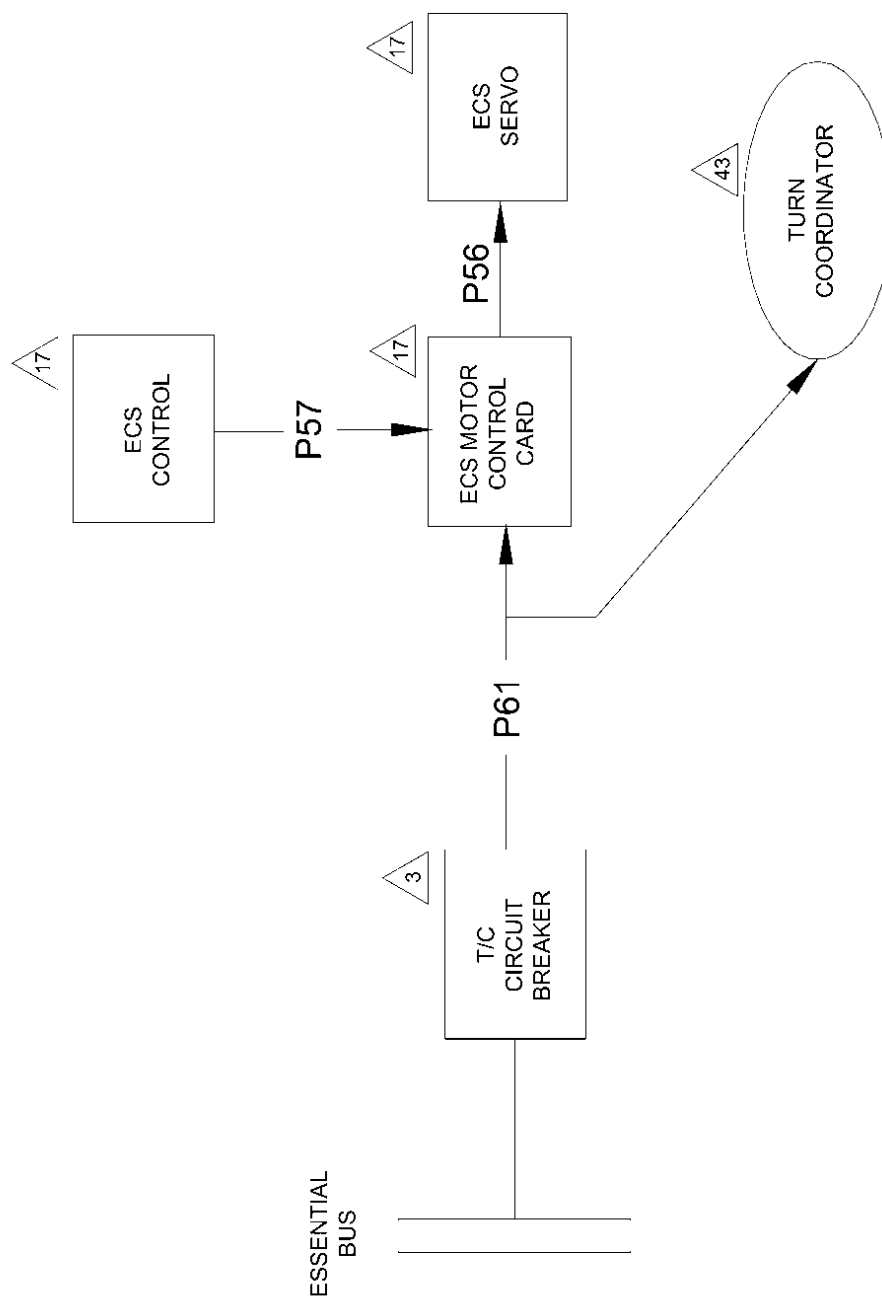
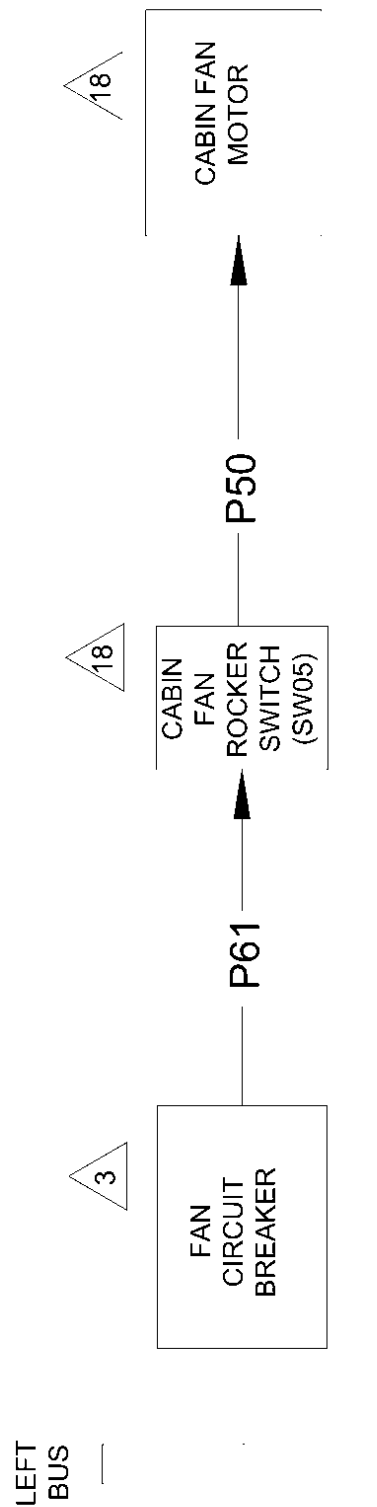


Figure 4 - 6 Engine Instrument Gauges and Sensors

**Figure 4 - 7 ECS & Turn Coordinator**

**Figure 4 - 8 Fan**

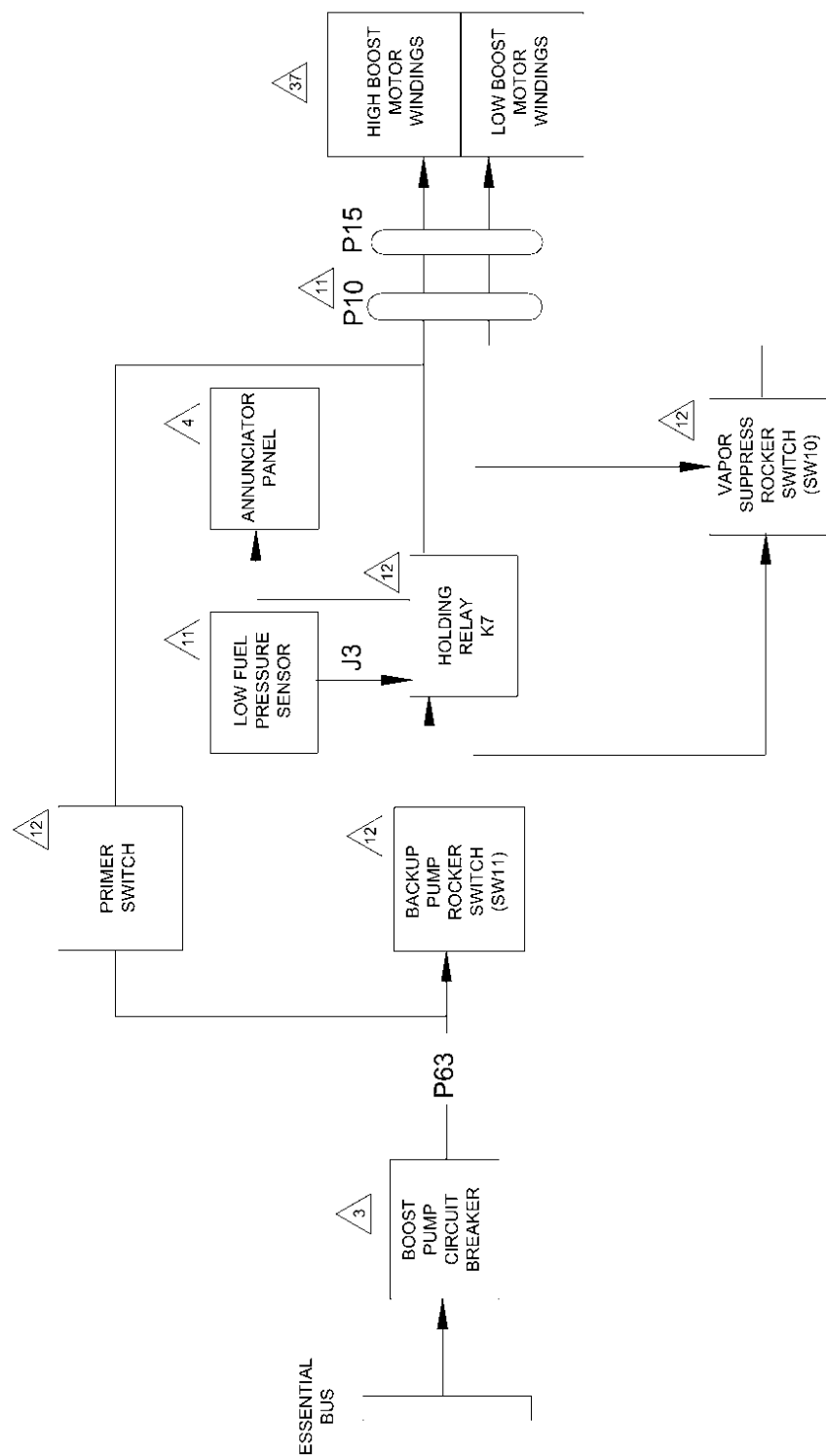


Figure 4 - 9 Fuel Boost Pump

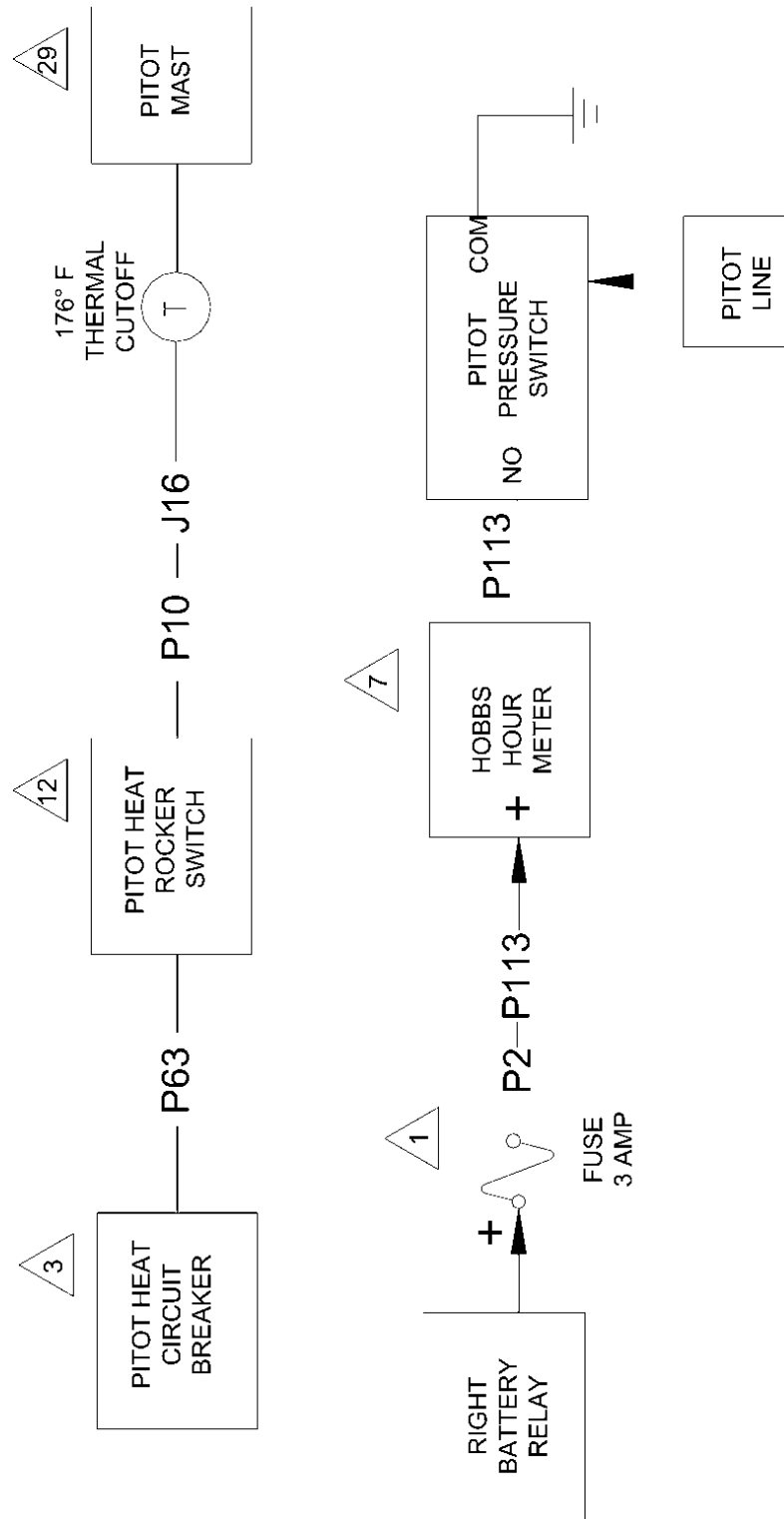
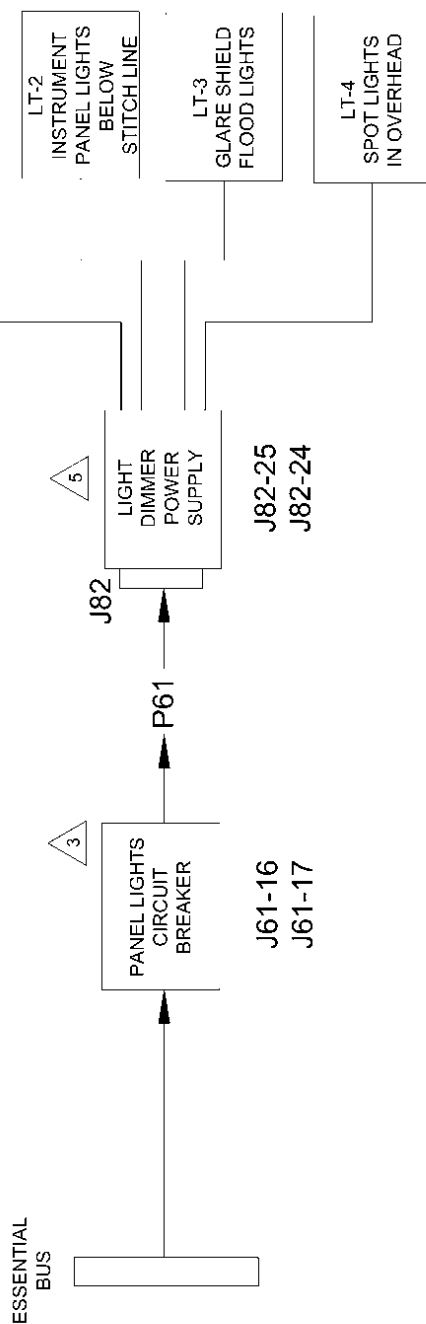


Figure 4 - 10 Hour Meter & Pitot Heat

LIGHT DIMMER POWER SUPPLY



POSITION LIGHTS

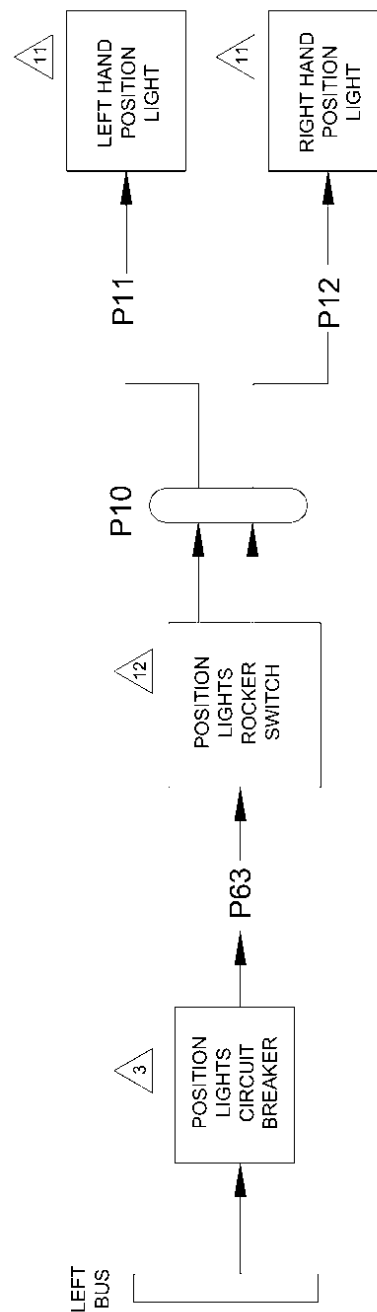


Figure 4 - 11 Light Dimmer Power Supply & Position Lights

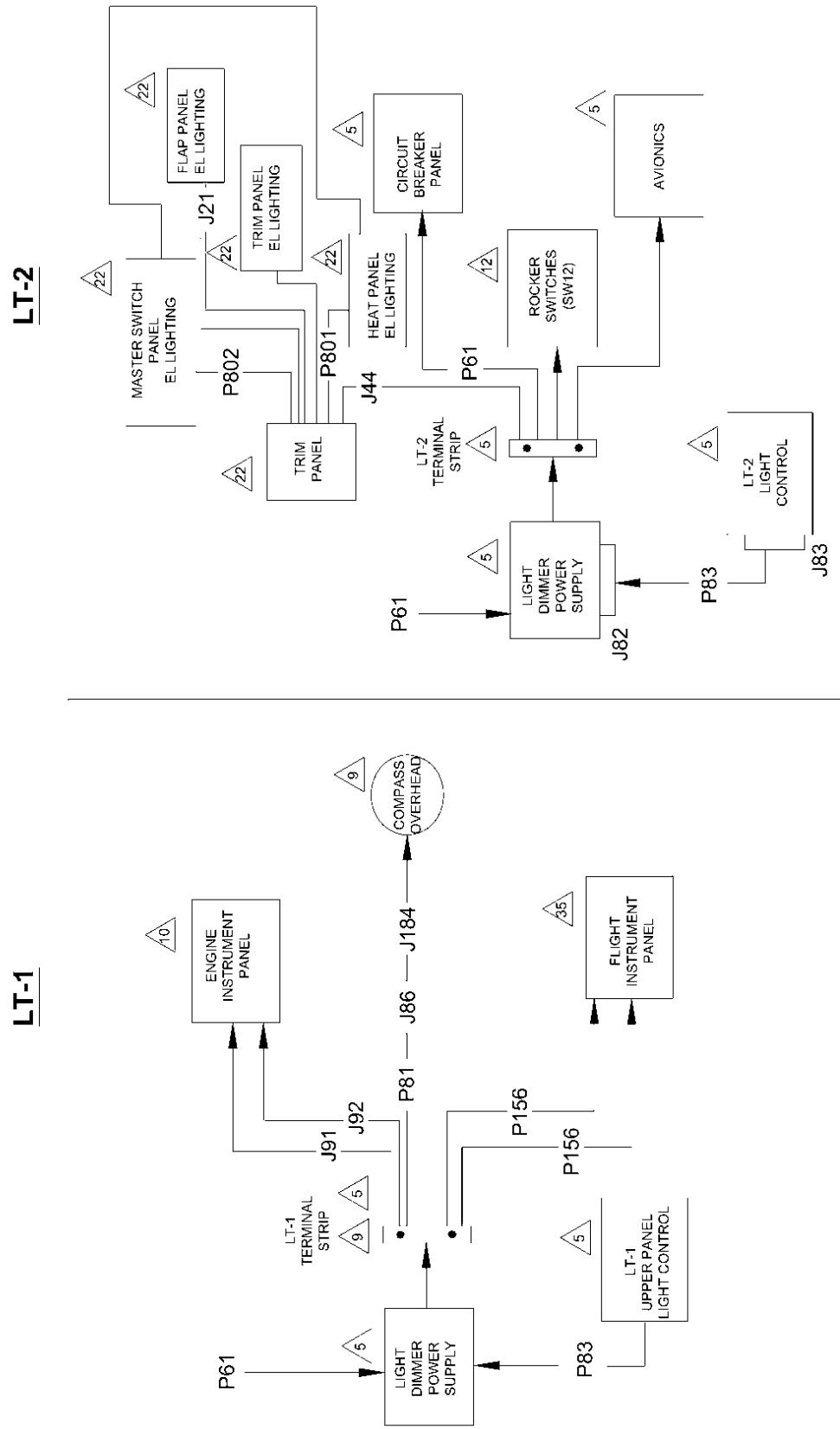
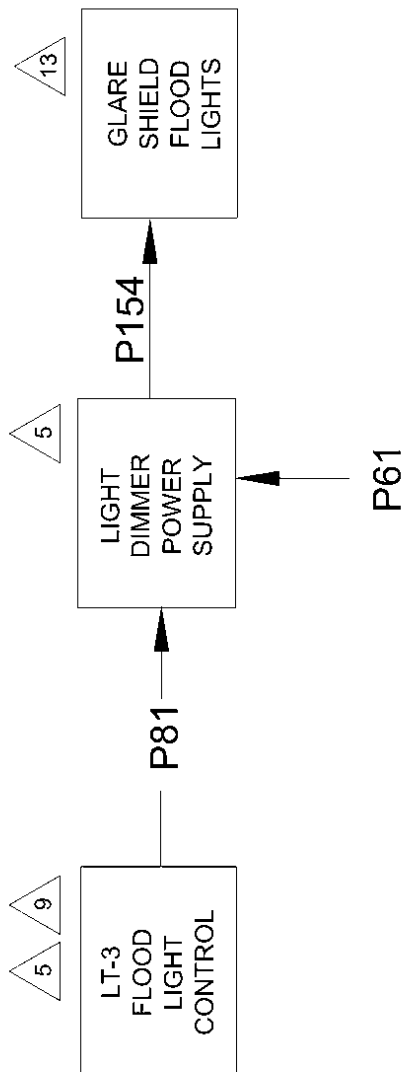


Figure 4 - 12 Lighting 1 (LT-1) & Lighting 2 (LT-2)

**Figure 4 - 13 Lighting 3 (LT-3)**

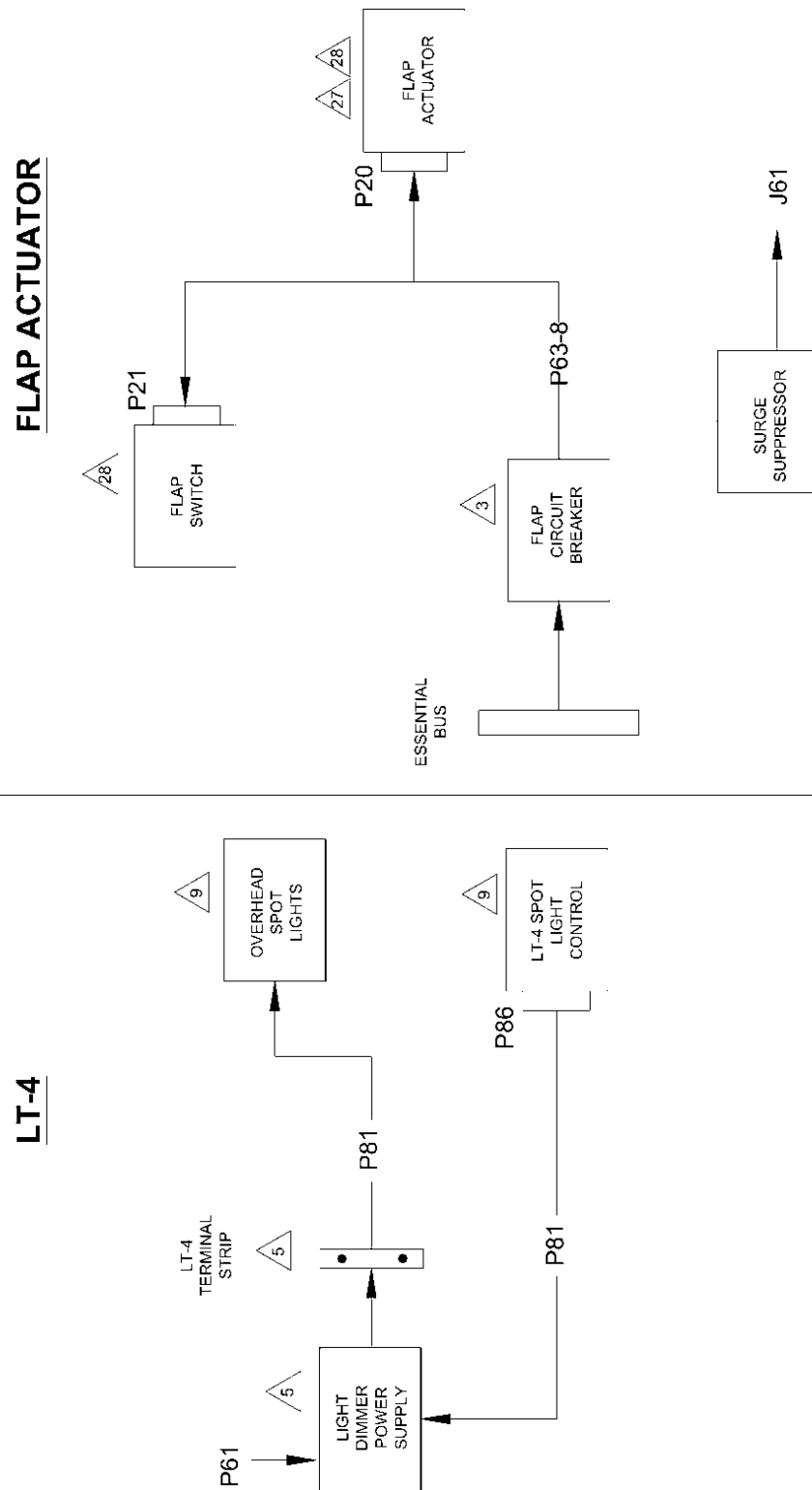


Figure 4 - 14 Lighting 4 (LT-4) & Flap Actuator

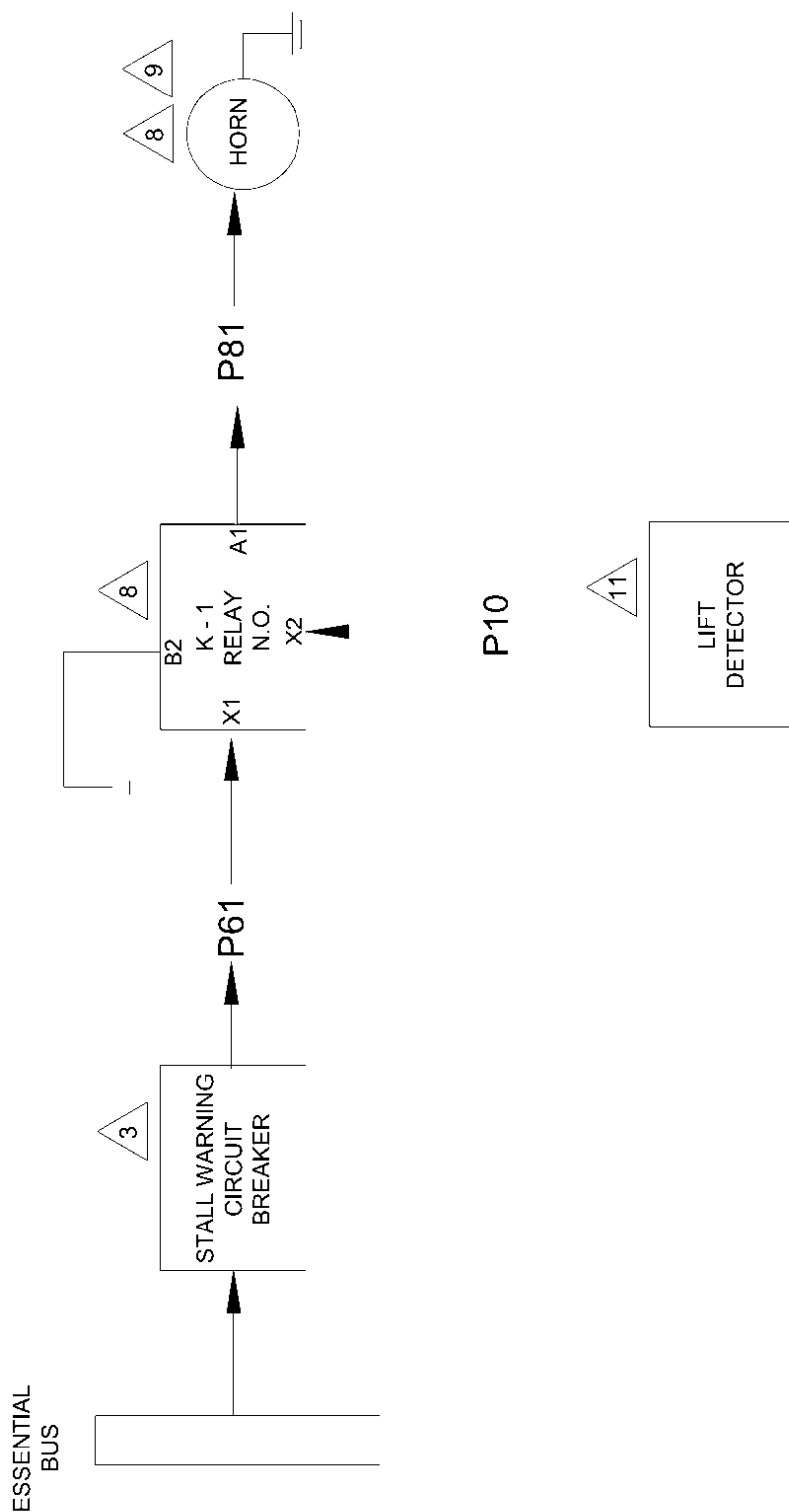


Figure 4 - 16 Stall Warning

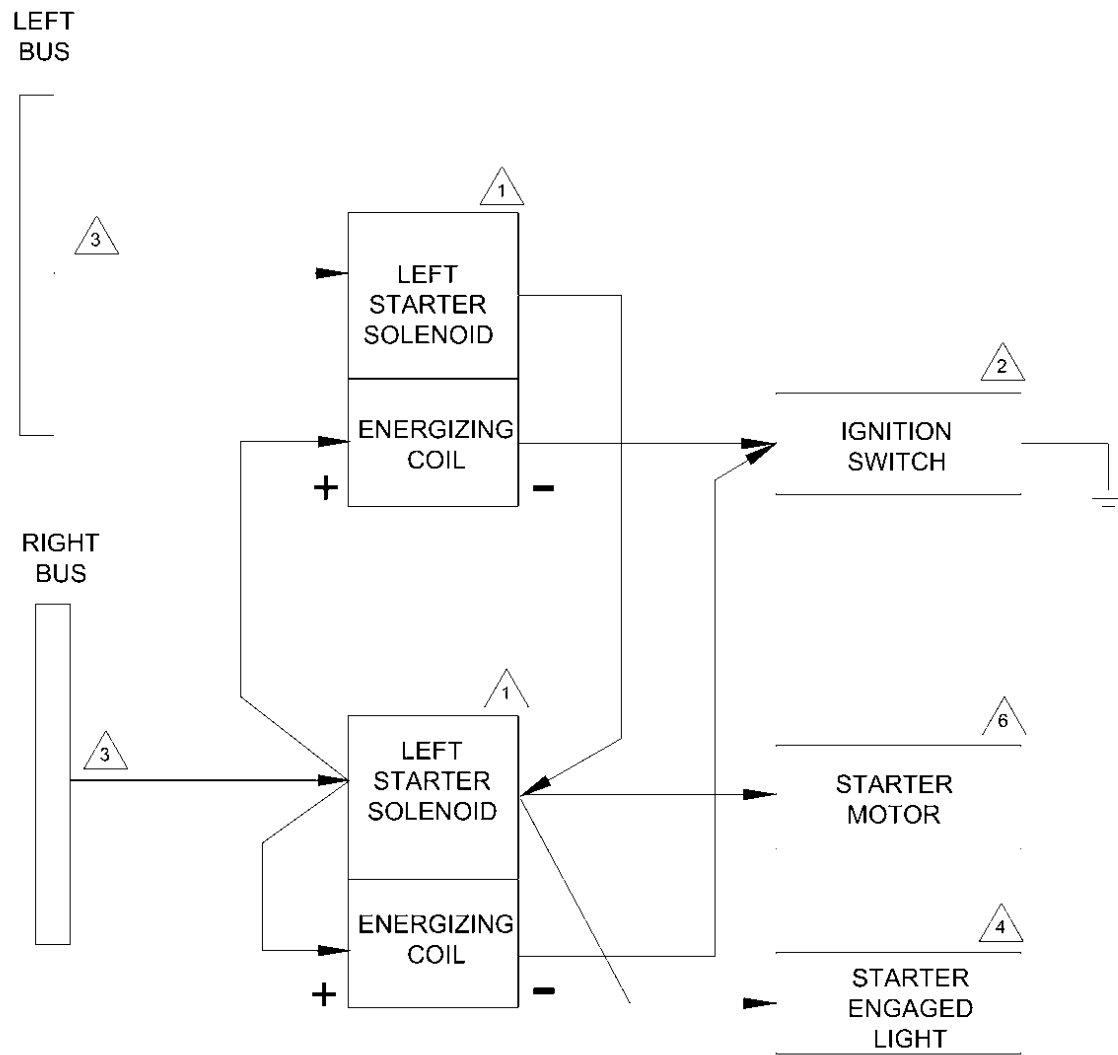
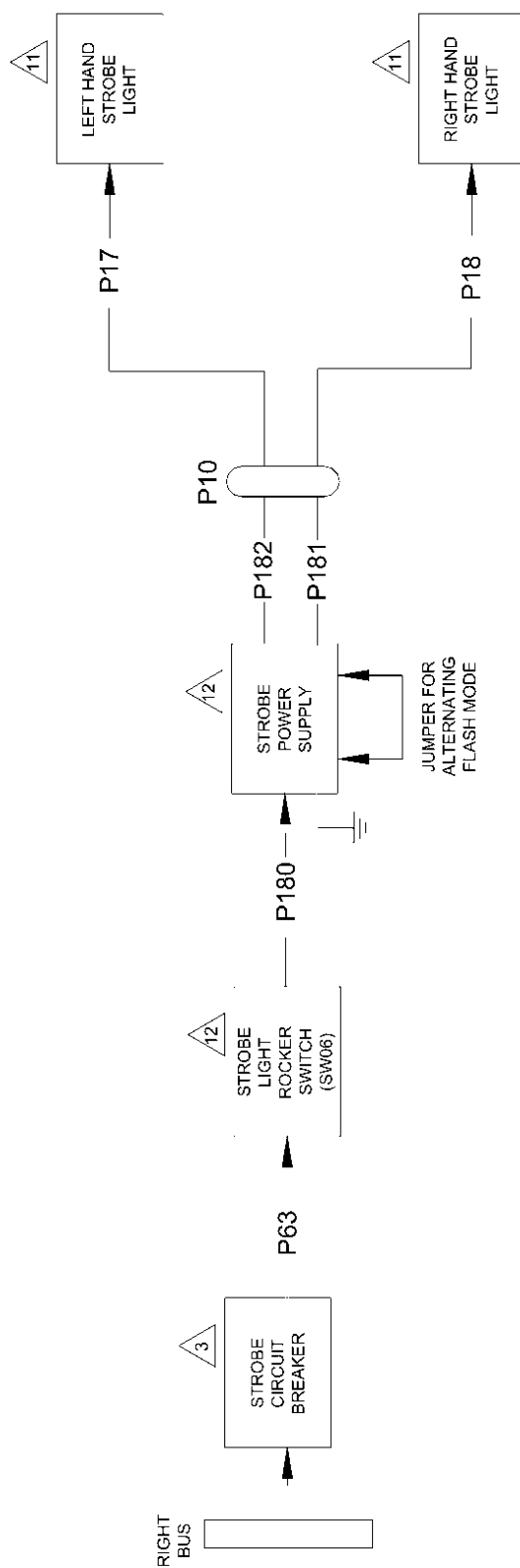


Figure 4 - 17 Starting Circuit

**Figure 4 - 18 Strobe Lights**

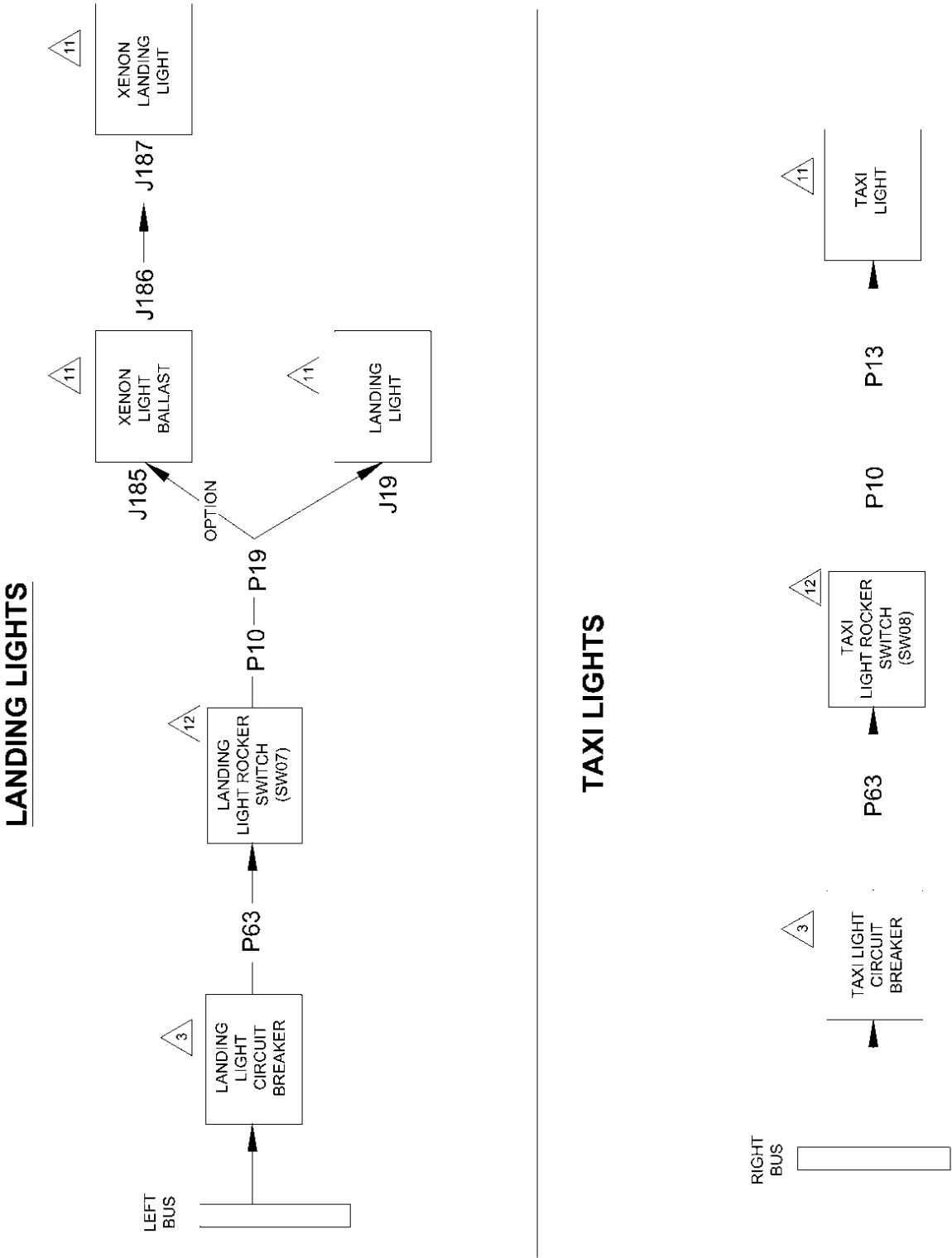


Figure 4 - 19 Landing & Taxi Lights

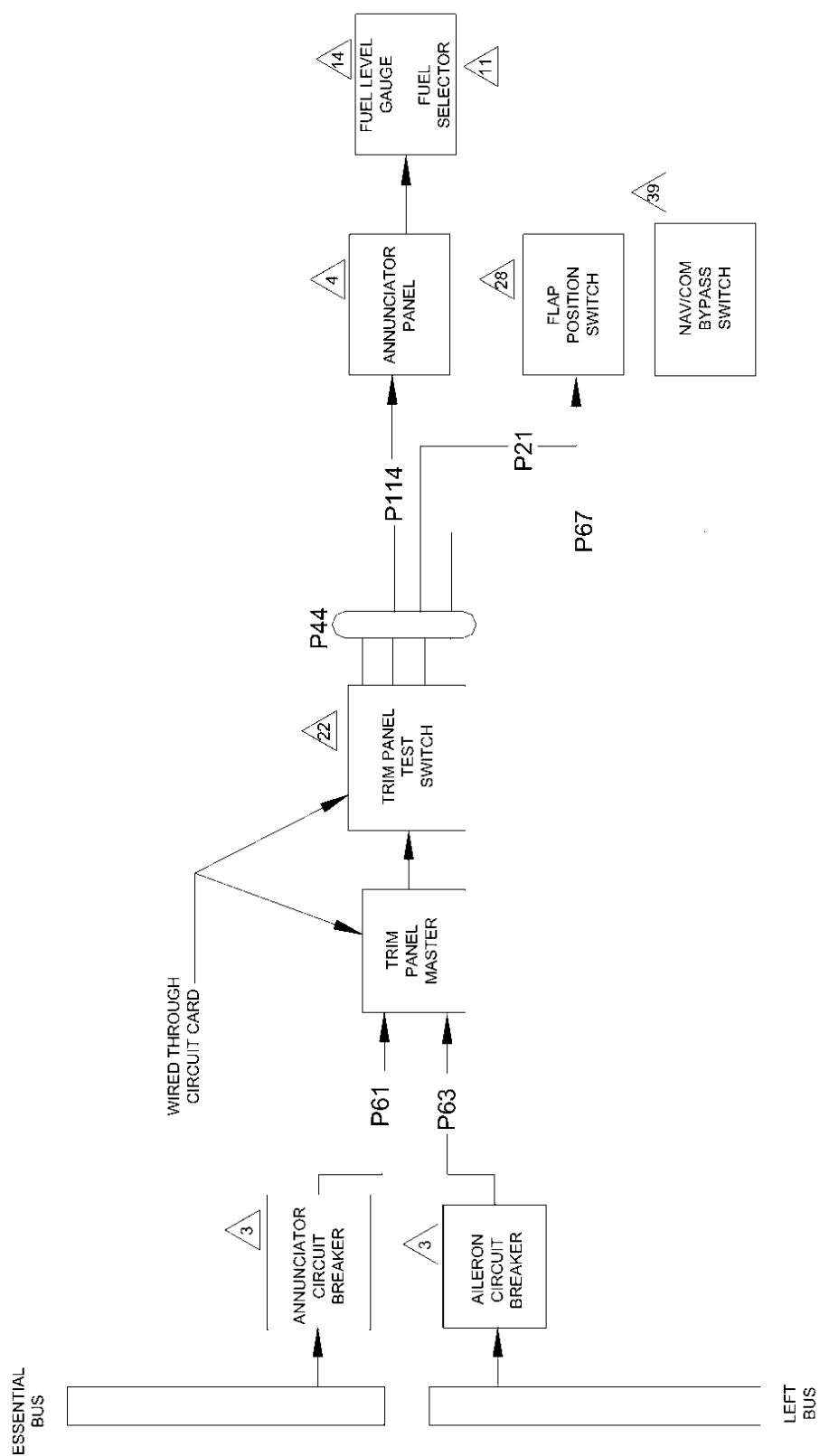


Figure 4 - 20 Trim Panel Light Test Switch

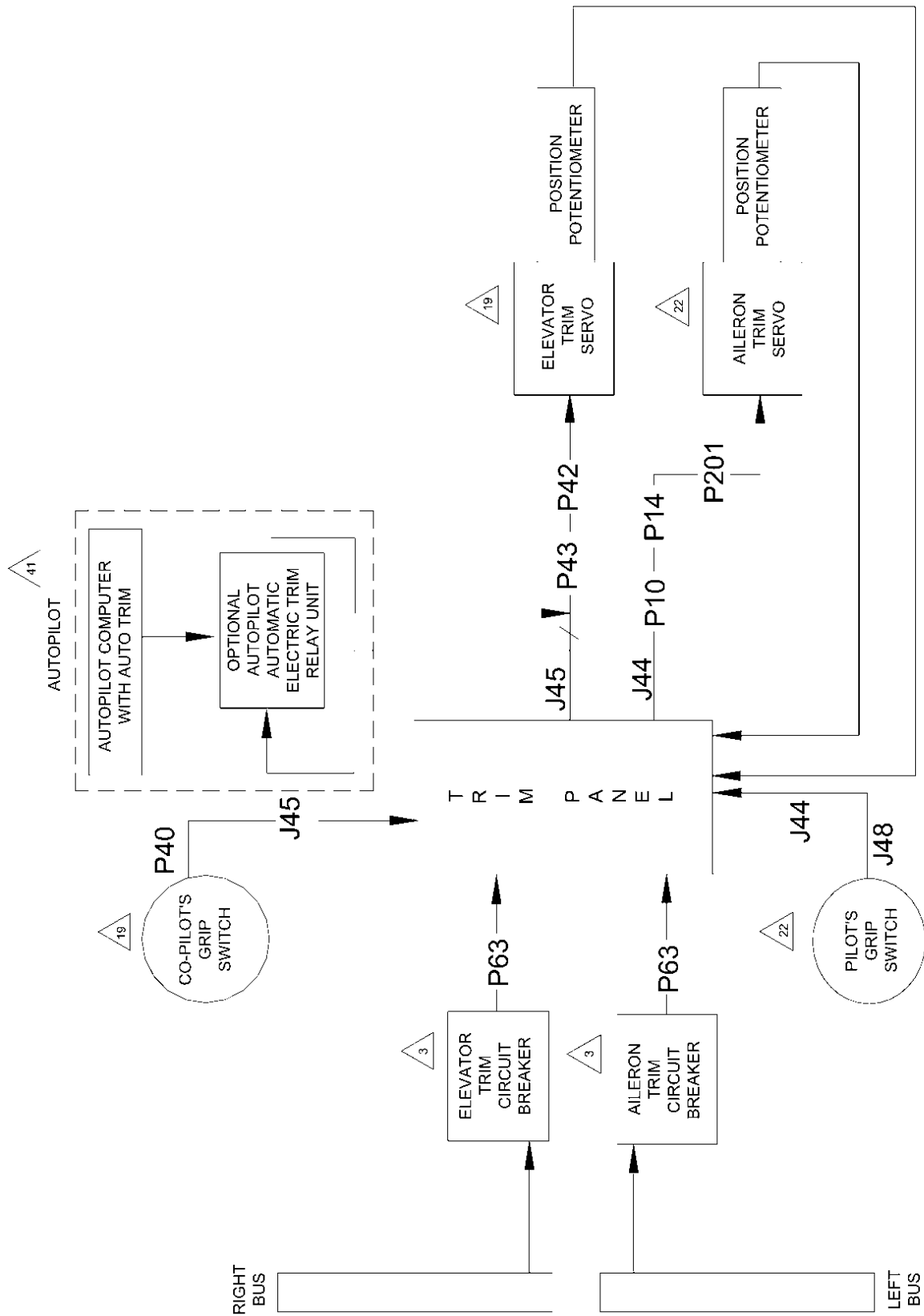


Figure 4 - 21 Trim Panel

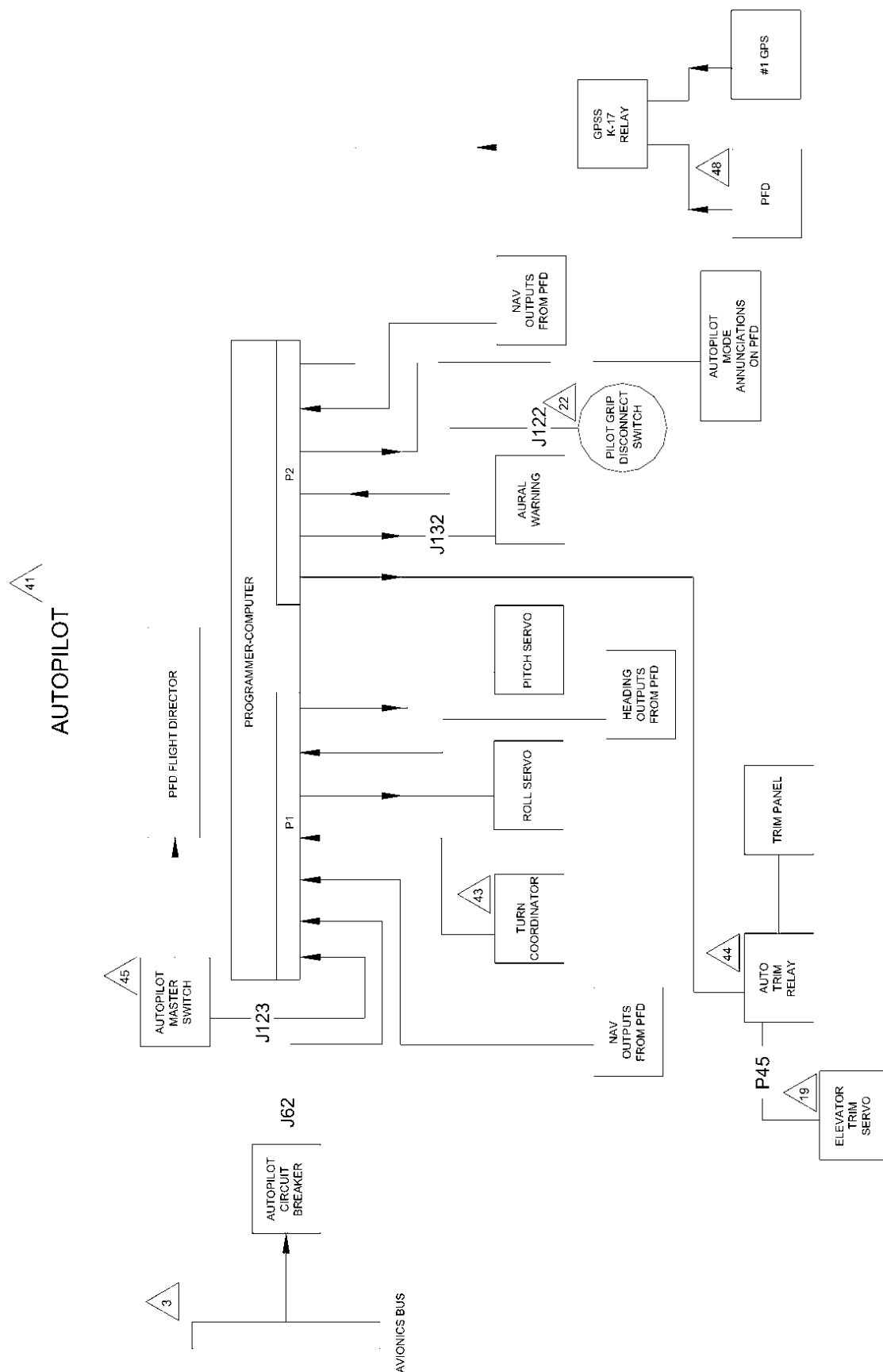


Figure 4 - 22 Autopilot

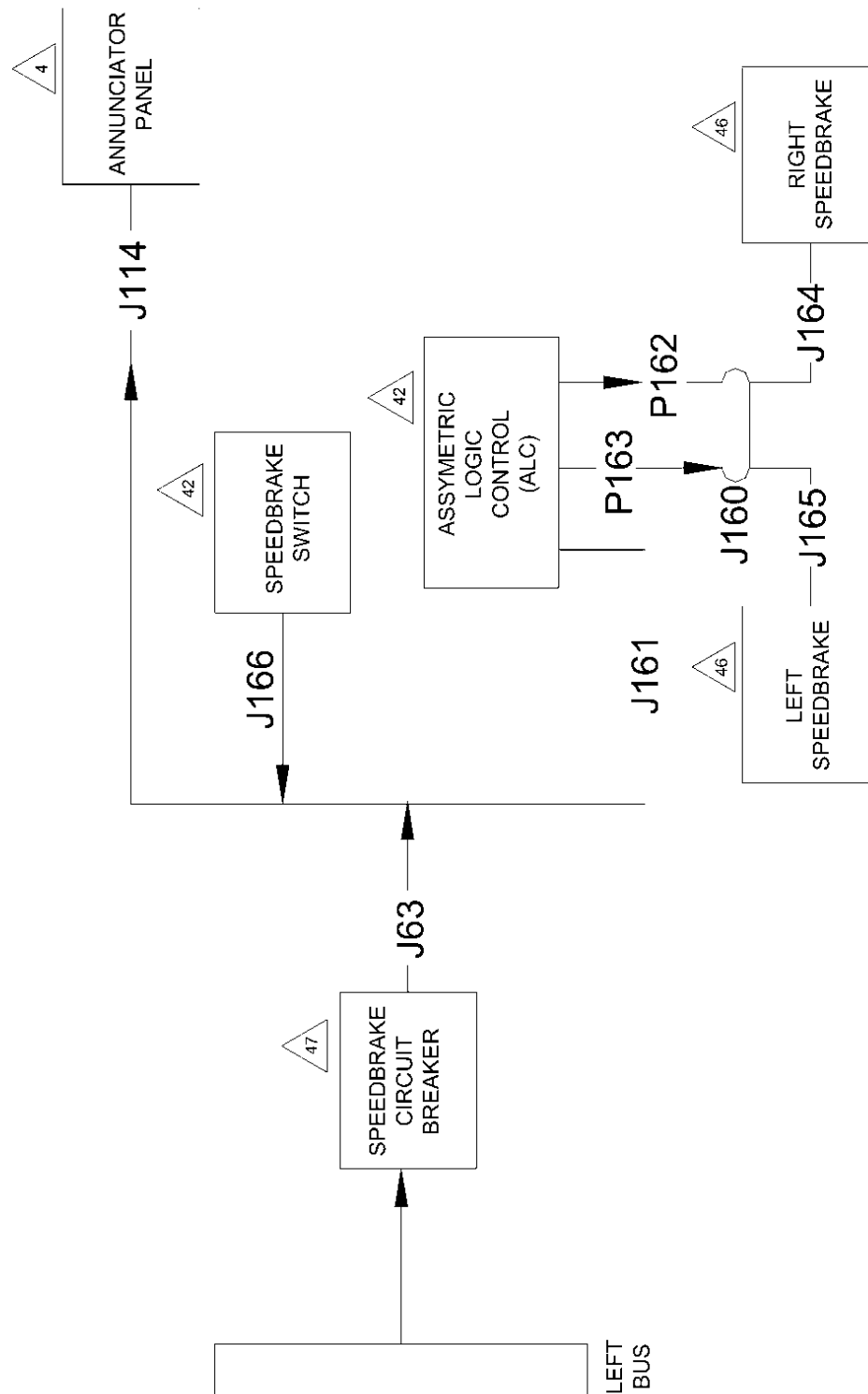


Figure 4 - 23 Speedbrakes

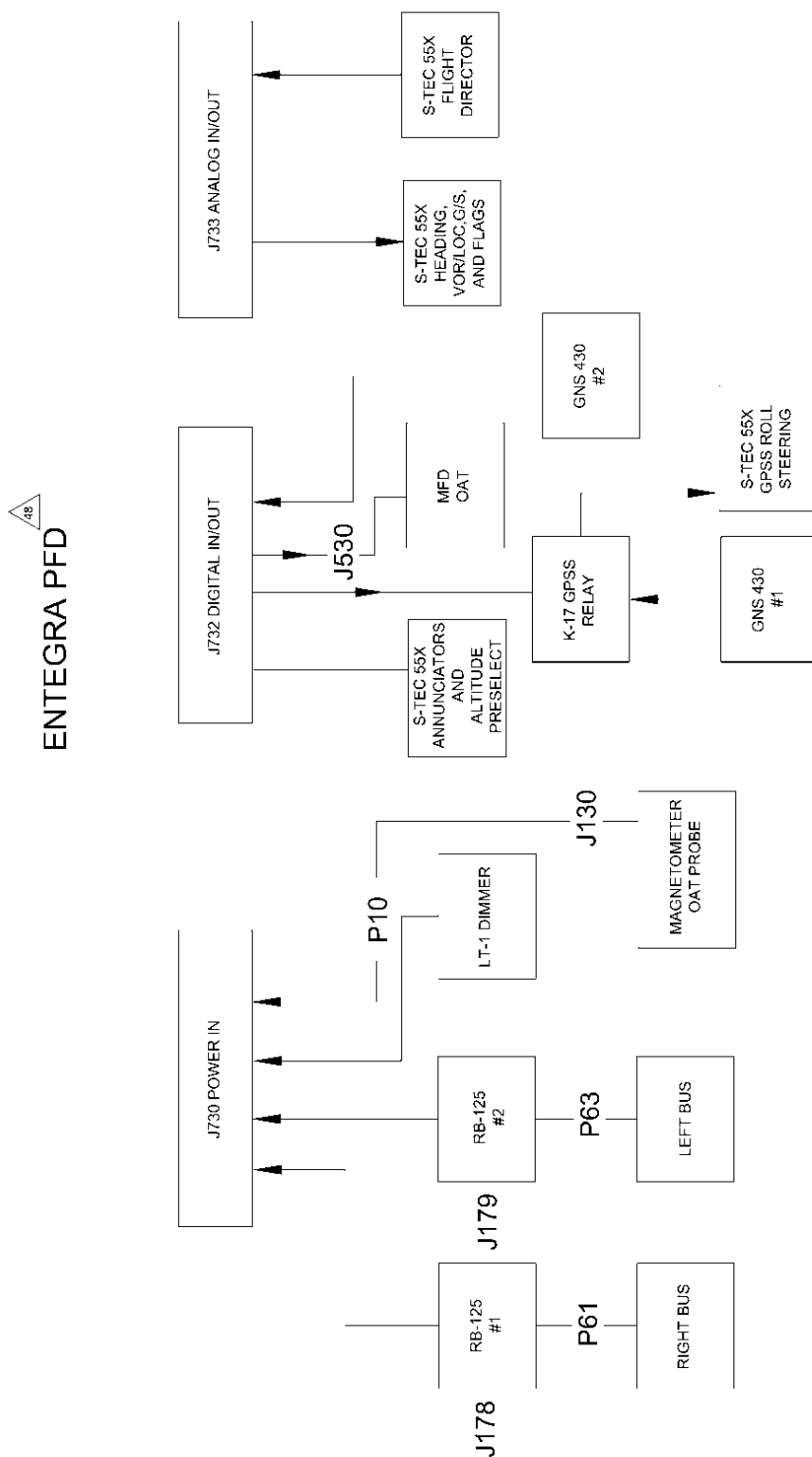


Figure 4 - 24 Entegra PFD

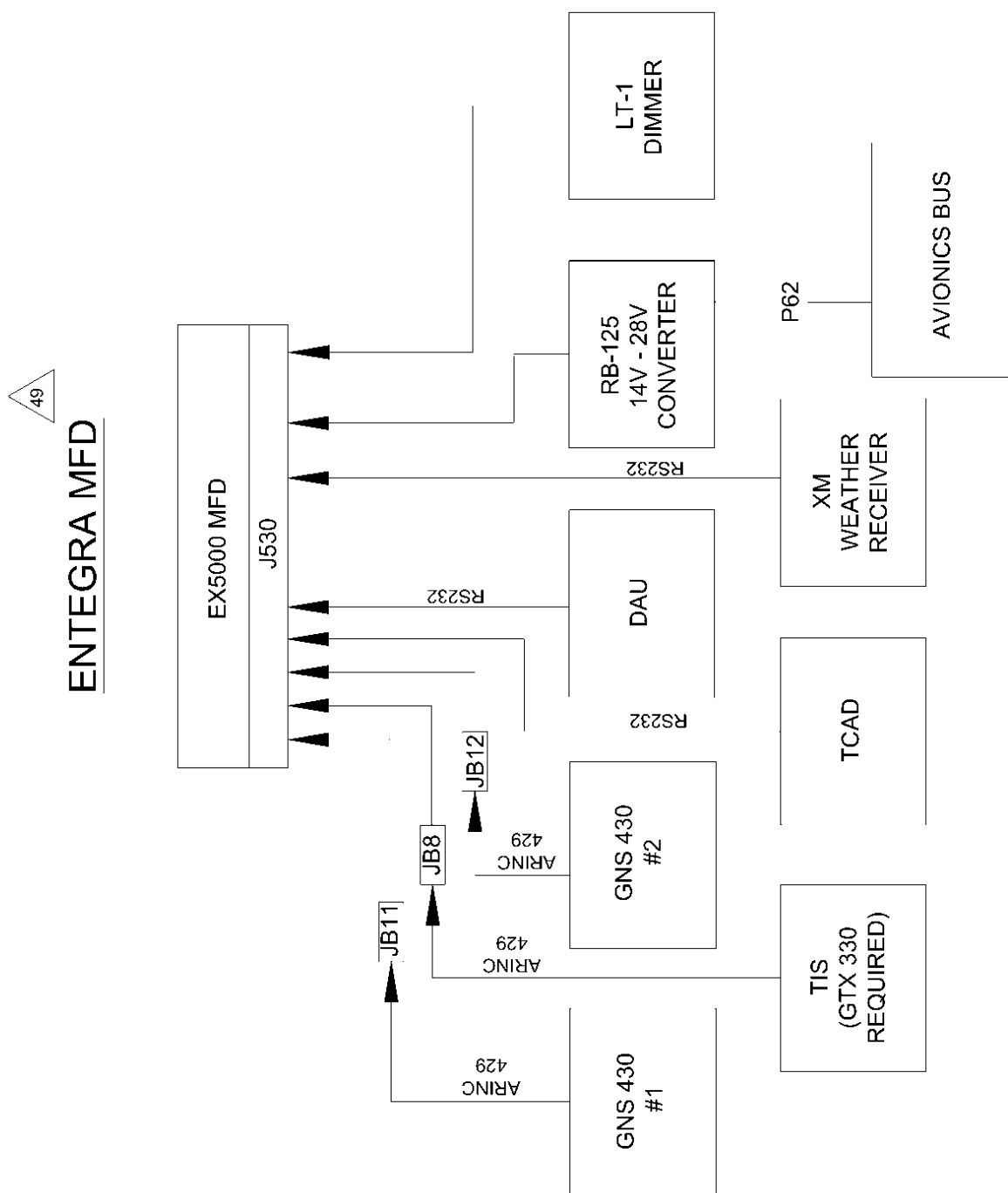
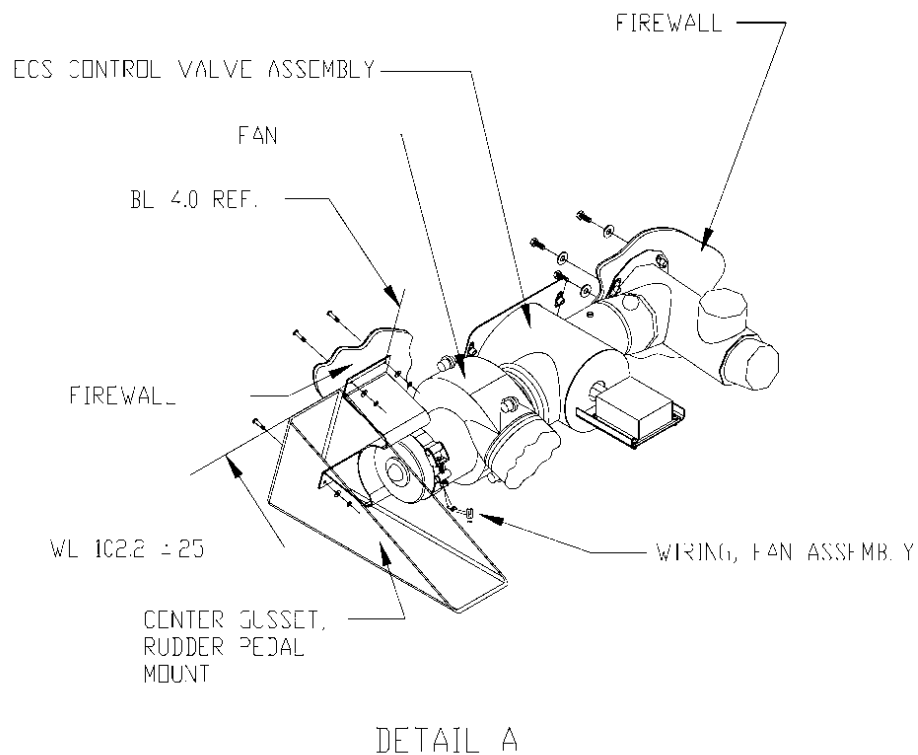
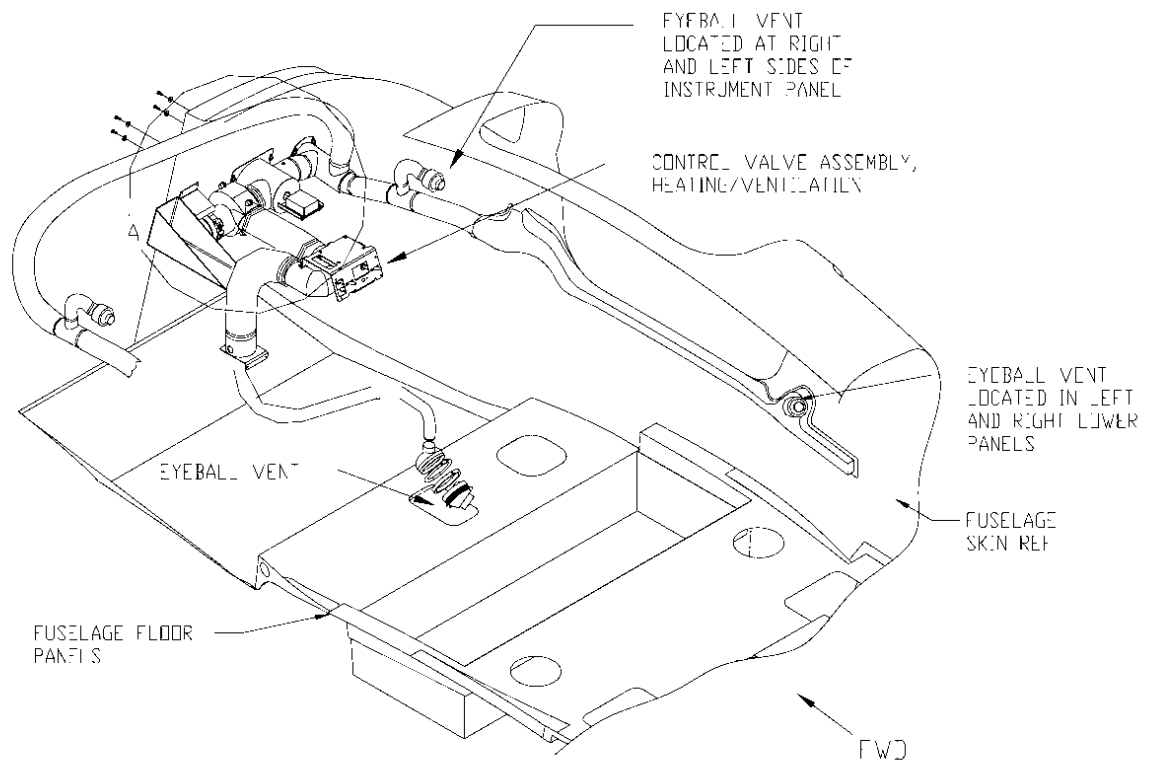
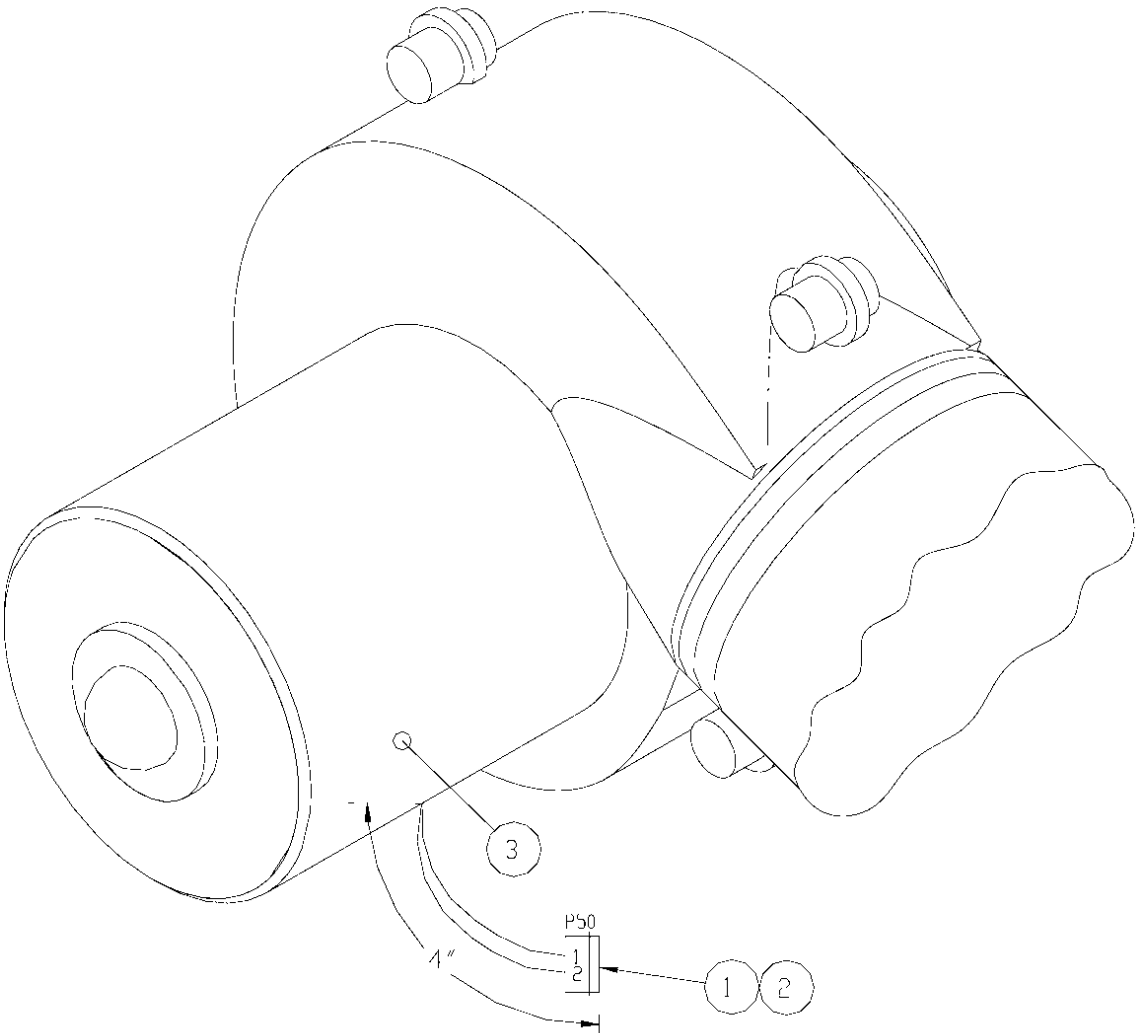


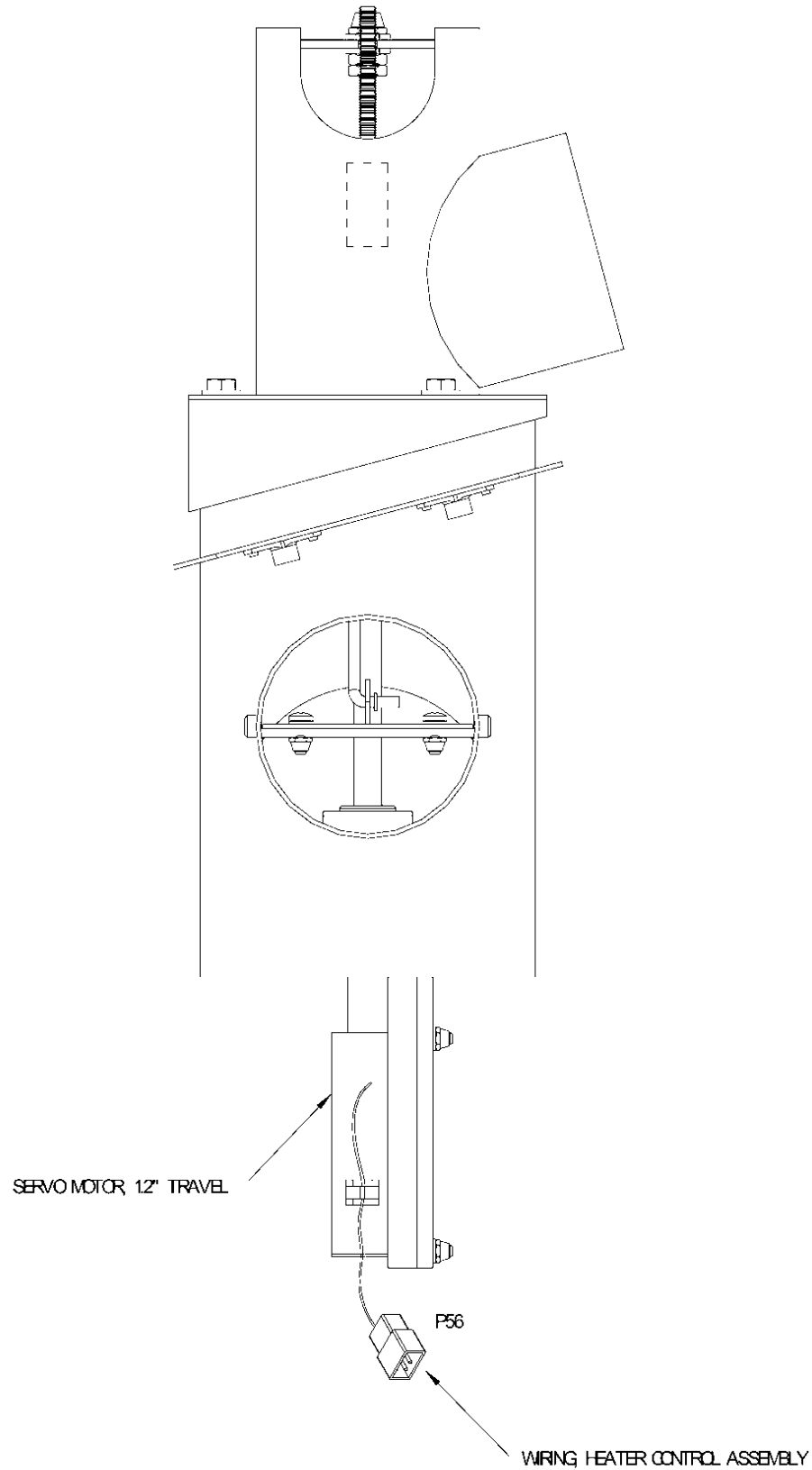
Figure 4 - 25 Entegra MFD

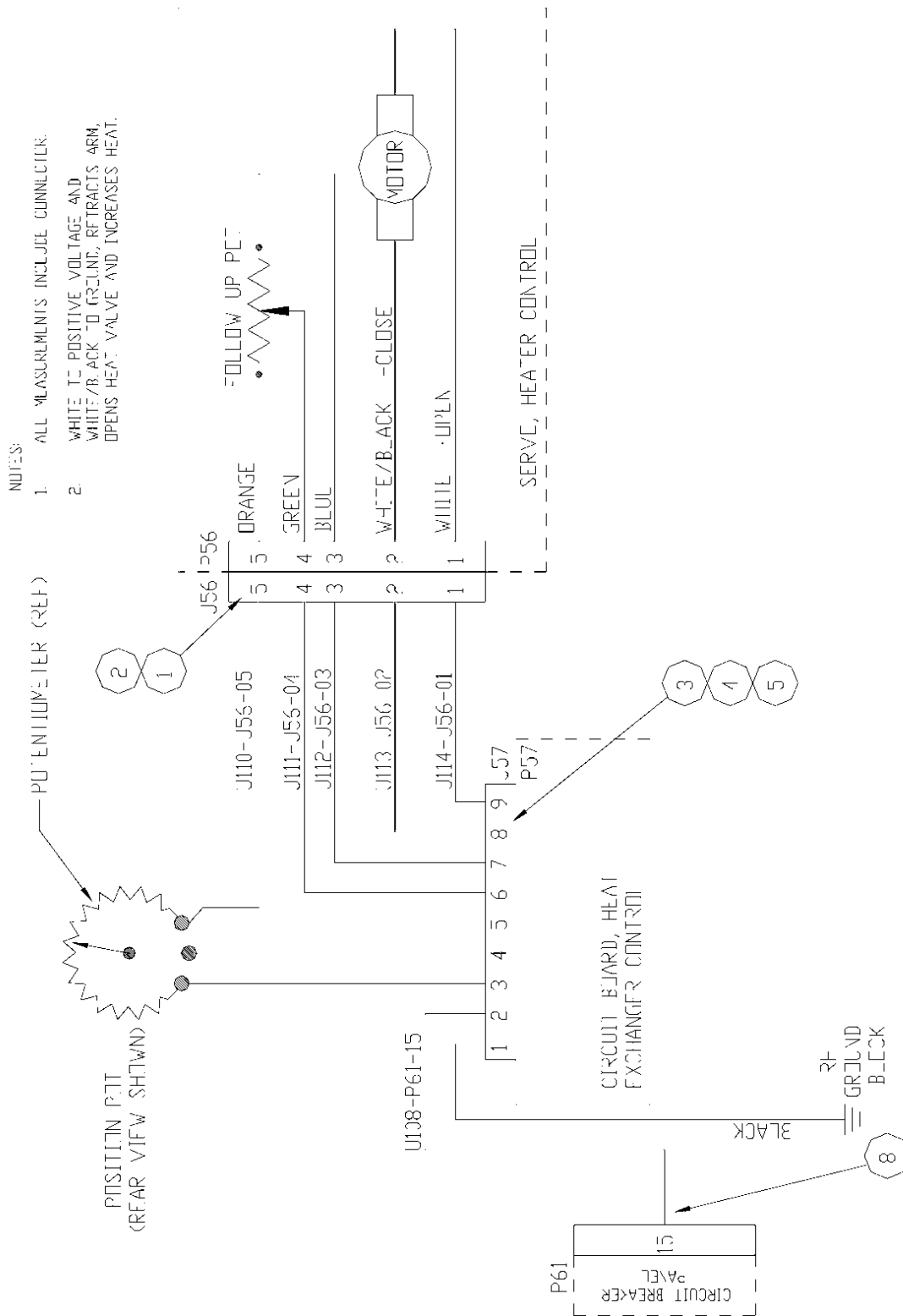
**Detail 21 - 1 Ventilation Assembly (LC53210000A)1 (1/1)**



3	1	35515-0010	FAN, VENTILATOR, SQUIRREL CAGE, PAR JABSCO
2	2	60620-1	PIN, 23-14 AWG, AMP
1	1	1-480319-0	PIN HOUSING, 2 PIN, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

Detail 21 - 2 Fan Assembly Wiring (LA53210018C1) (1/1)

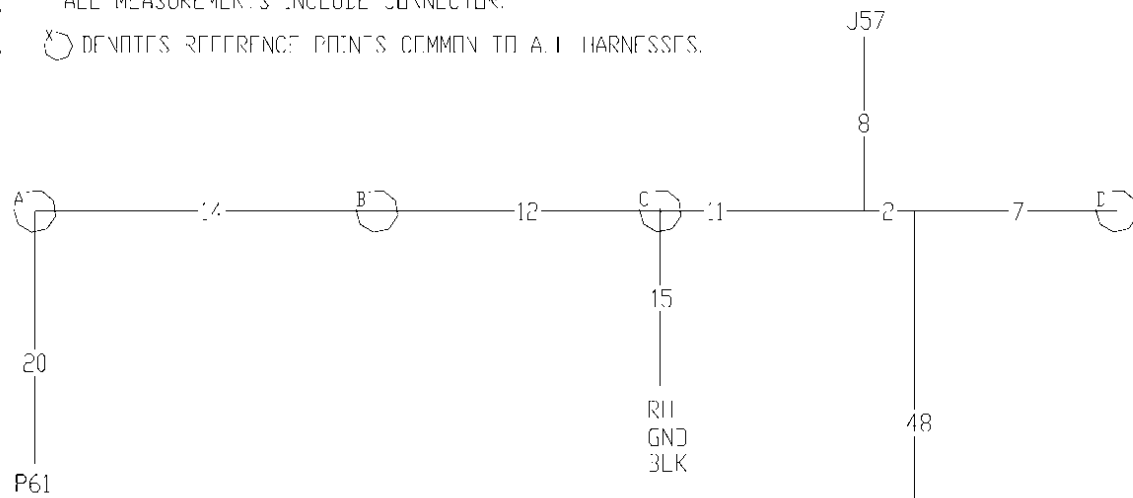
**Detail 21 - 3 ECS Control Valve (LA53216100A4) (1/1)**



Detail 21 - 4 Heater Control Assembly (LA53216034A1) (1/2)

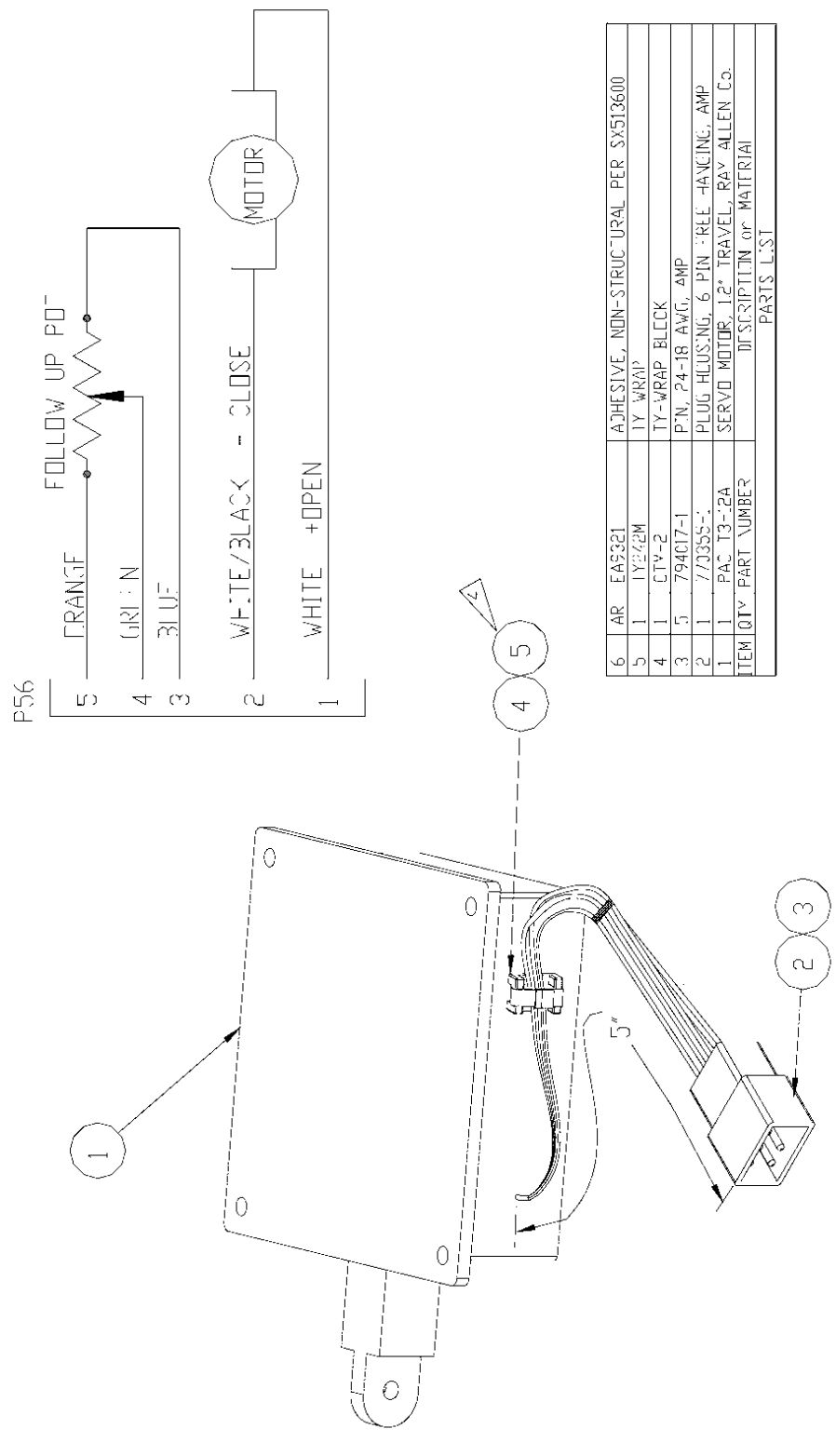
NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. $\bigcirc$ DENOTES REFERENCE POINTS COMMON TO ALL HARNESSSES.



8	1	56103-4	PIN, 24-20 AWG, AMP
7			NNT USED
6			NNT USED
5	1	2C5478-1	BACKSHELL, D CONNECTOR, SIZE 1, AMP
4	1	2C5203-1	RECEPTACLE, 9 PIN HPD 20 CONNECTOR, SIZE 1, AMP
3	9	2C5090-1	SOCKET, 24-20 AWG, AMP
2	5	794016-1	SOCKET, 24-18 AWG, AMP
1	1	773356-1	RECEPTACLE, 6-PIN FREE HANGING, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

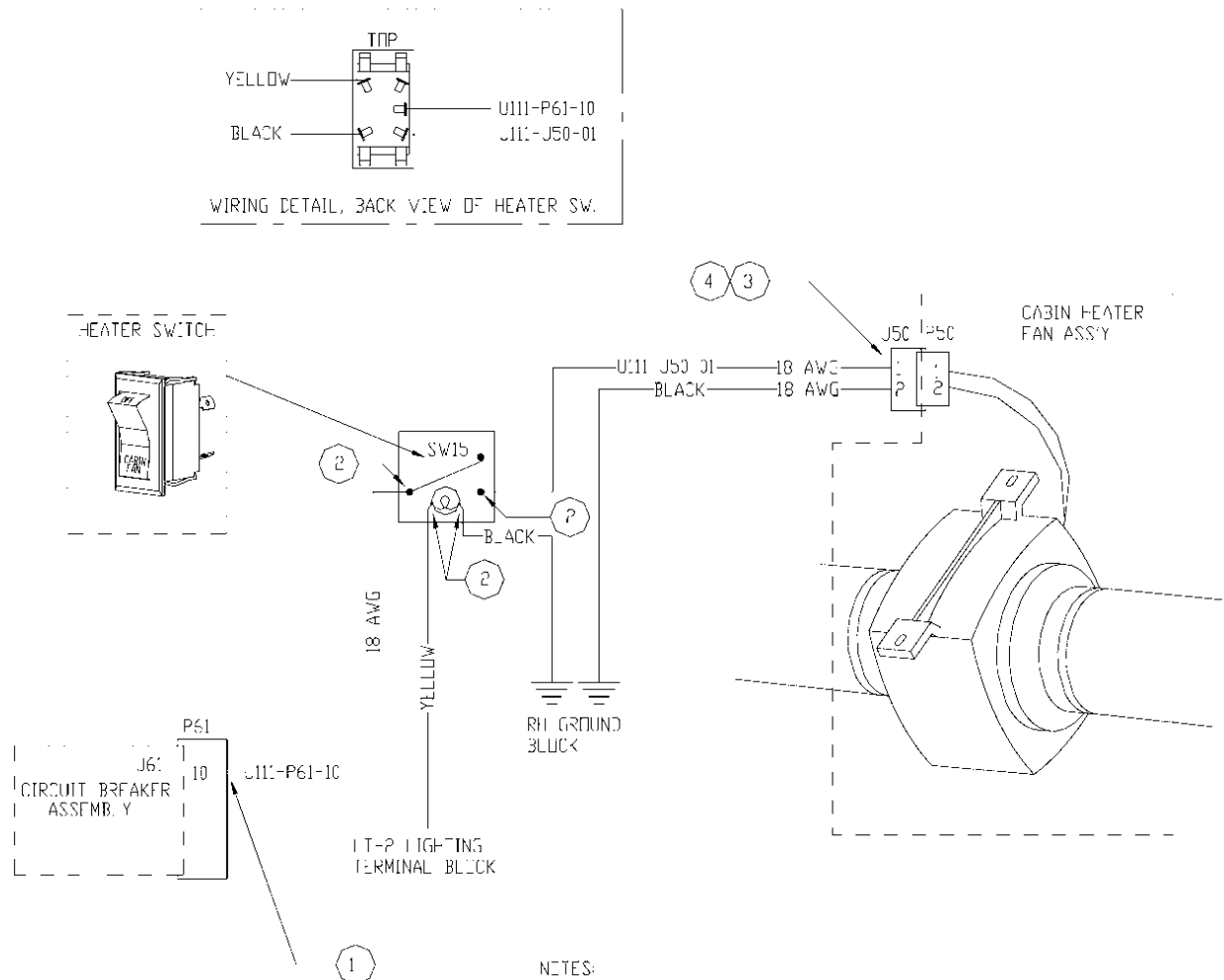
Detail 21 - 4 Heater Control Assembly (2/2)



6	AR	EAS321	ADHESIVE, NON-STRUCTURAL PER SY513600
5	1	LY242M	TY WRAP
4	1	CTV-2	TY-WRAP BLOCK
3	5	794017-1	PTN, P4-18 AWG, AMP
2	1	770355-1	PLUG HUSING, 6 PIN REEL-WAVING, AMP
1	1	PAC T3-2A	SERVO MOTOR, 12" TRAVEL, RAY ALLEN Co.
ITEM QTY PART NUMBER			DESCRIPTION OF MATERIAL
			PARTS LIST

- NOTES:
1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
 2. NOT USED.
 3. ALL MEASUREMENTS INCLUDE CONNECTOR.
 4. ATTACH BLOCK TO SIDE OF SERVO WITH INSUL.
 5. WHITE TO POSITIVE VOLTAGE AND WHITE/BLACK TO GROUND, RETRACTS ARM, OPENS FEAT VALVE AND INCREASES HEAT

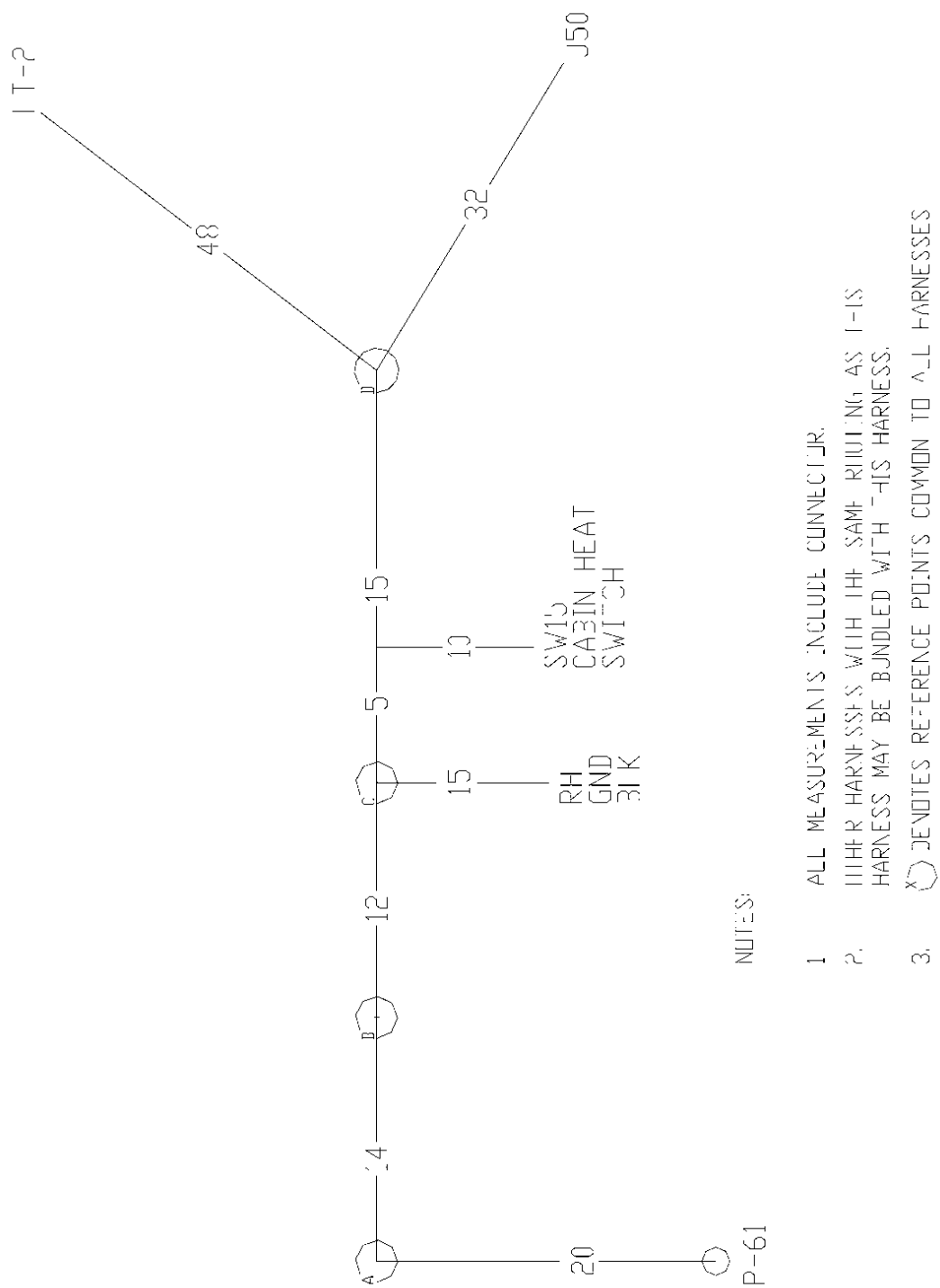
Detail 21 - 5 ECS Control Valve Servo (LA53216032-2) (1/1)



1 ALL WTRF SIZE IS 22 AWG UNLESS OTHERWISE NOTED.

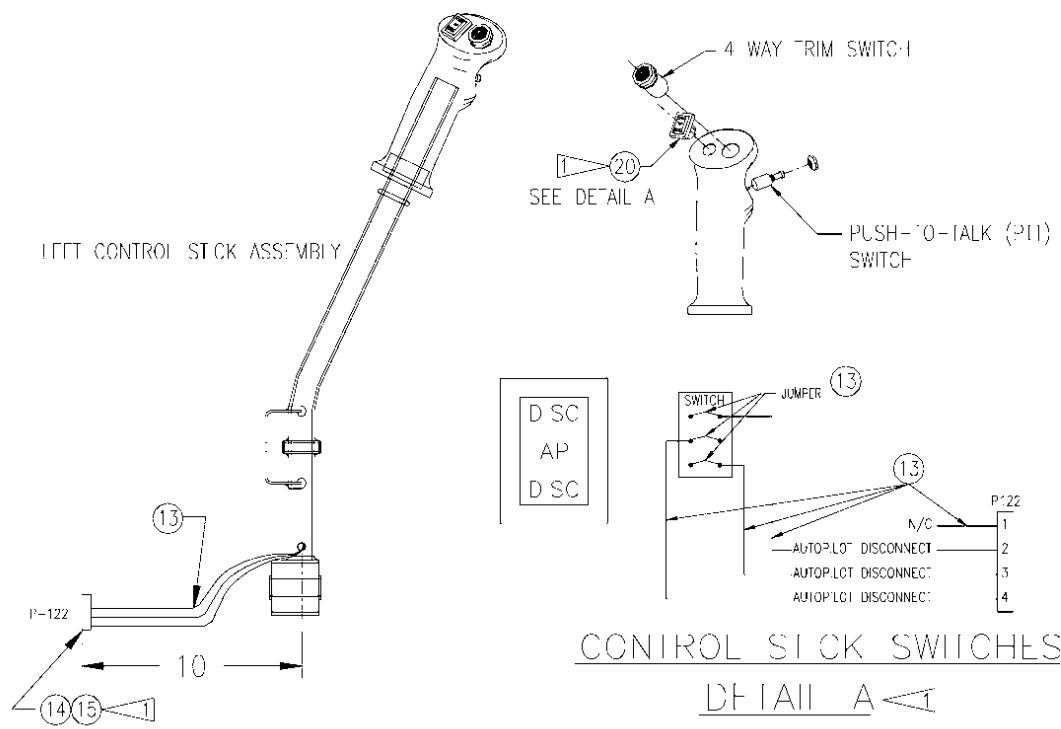
4	2	60619-1	SOCKET, 20-14 AWG, AMP
3	:	1-48C318-C	SLICK 1 HOUSING, 2-PIN, AMP
2	4	640903-1	RECEPTACLE, .250 RED, 22-18 AWG, AMP
1	:	66099-4	PIN, 18-16 AWG, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION ON CATERPILLAR PARTS LIST

Detail 21 - 6 Heater Fan Wiring (LA53515100D) (1/2)



Detail 21 - 6 Heater Fan Wiring (2/2)

- End of Chapter -



1. SOLDER WIRES ON TO SWITCH, ITEM 20 (S-TEC P/N 3599) SEE DETAIL A.
REMOVE DOME PLUG. FEED WIRES THROUGH HOLES IN GRIP HANDLE.
WIRES WILL EMERGE THROUGH FRONT AND AFT HOLES IN STICK.
IF SWITCH IS LOOSE IN GRIP, REMOVE SWITCH AND APPLY ADHESIVE
TO HOLD IN PLACE.

- 2. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE NOTED.
- 2. ITEM NOS. NOT USED HAVE BEEN REMOVED FROM THE PARTS LIST FOR CLARITY.

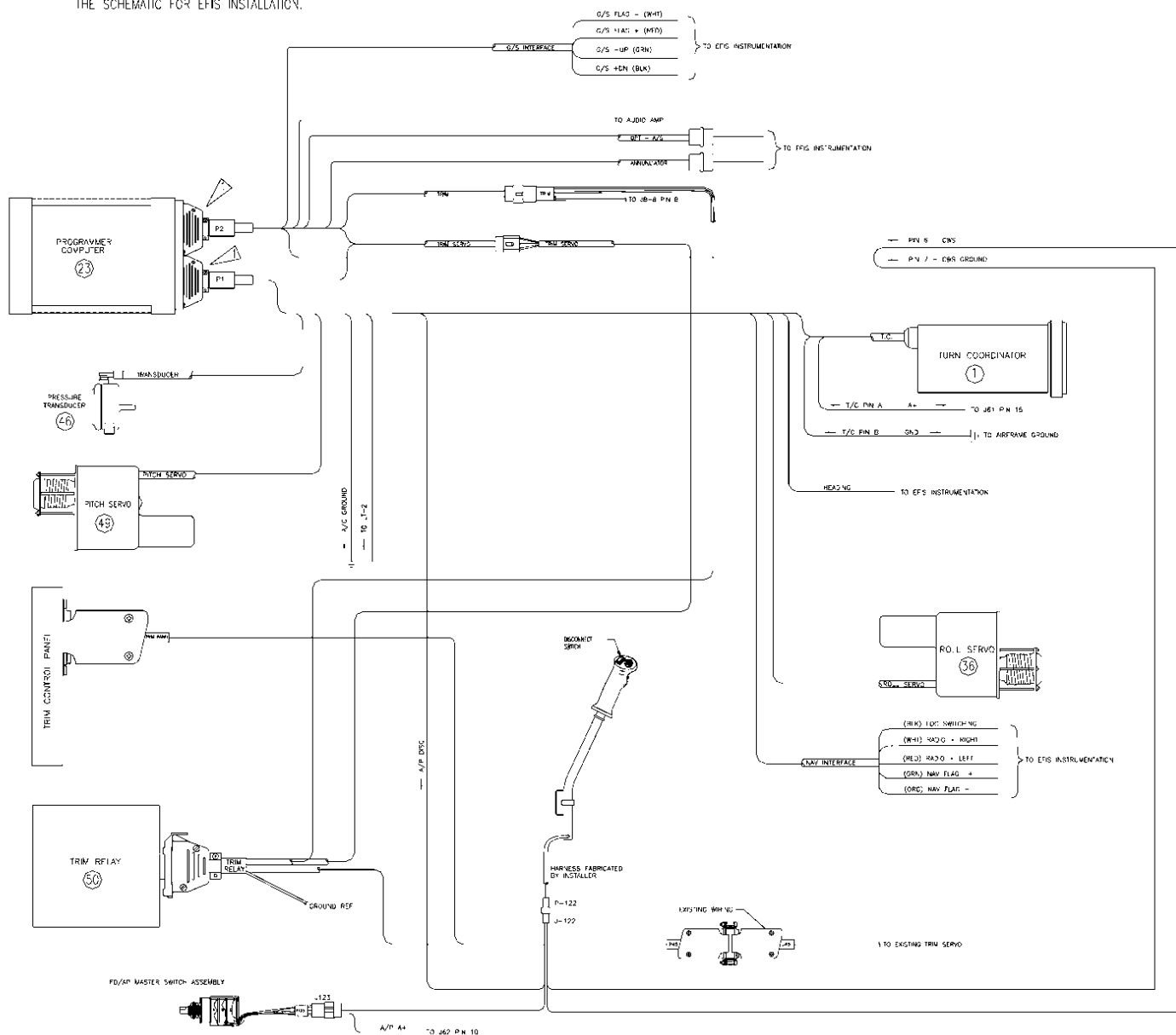
50	1	01277	B	TRIM RELAY (S-TEC)
49	1	0107-9-P4	W	PITCH SERVO (S-TEC)
46	1	0111	R	TRANSDUCER (S-TEC)
36	1	0105-13-R2		ROLL SERVO (S-TEC)
23	1	01192-33-0-45		PROGRAMMER/COMPUTER W/AUTOTRIM (S-TEC) PER TSC-C9c & TSO-C52c and subsequent.
20	1	3599	D.E	SWITCH, DISCONNECT (S-TEC)
15	2	793017-		PIN (AMP), (STEC 52105)
14	2	770433		PLUG HOUSING (AMP), (STEC 34273)
13	AR	ML W 22759/16 22 ga.		WIRE
1	1	6405-8-14		TURN COORDINATOR
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL
PARTS LIST				

Detail 22 - 1 S-Tec 55X Autopilot (LB53220000D1) (1/4)

FOR EFIS (ELECTRONIC FLIGHT INSTRUMENTATION SYSTEM)

1. POSITION CABLE ASSEMBLY ON TRAY WITH P1 CONNECTOR TO THE RIGHT SIDE, AS VIEWED FROM THE FRONT OF THE TRAY.

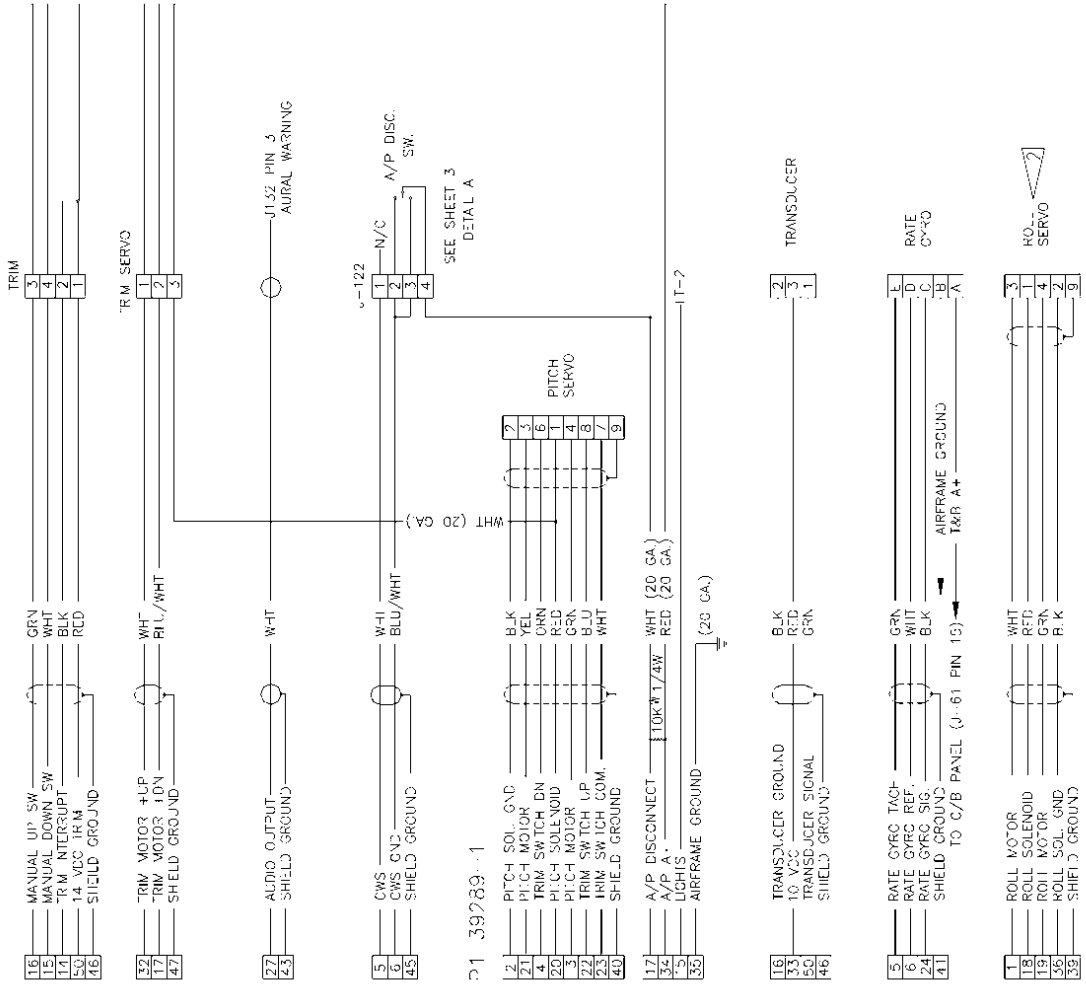
2. THIS BLOCK DRAWING IS TO BE USED FOR REFERENCE ONLY. ALL CONNECTORS AND PINS SHOULD BE CHECKED AGAINST THE SCHEMATIC FOR EFIS INSTALLATION.



Detail 22 - 1 S-Tec 55X Autopilot (2/4)

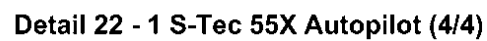
FOR FFIS (ELECTRONIC FLIGHT INSTRUMENTATION SYSTEM)

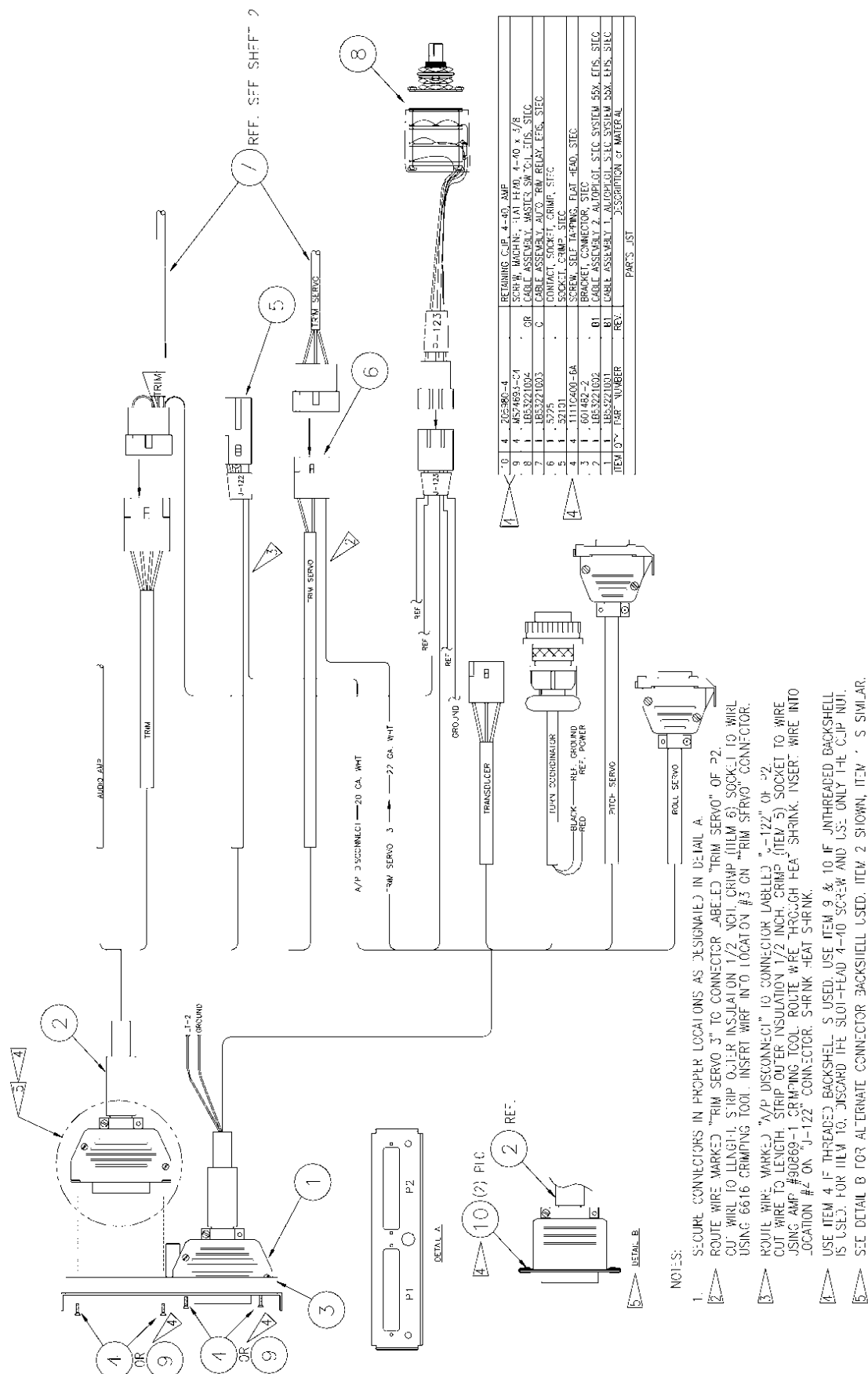
P2 39288-2



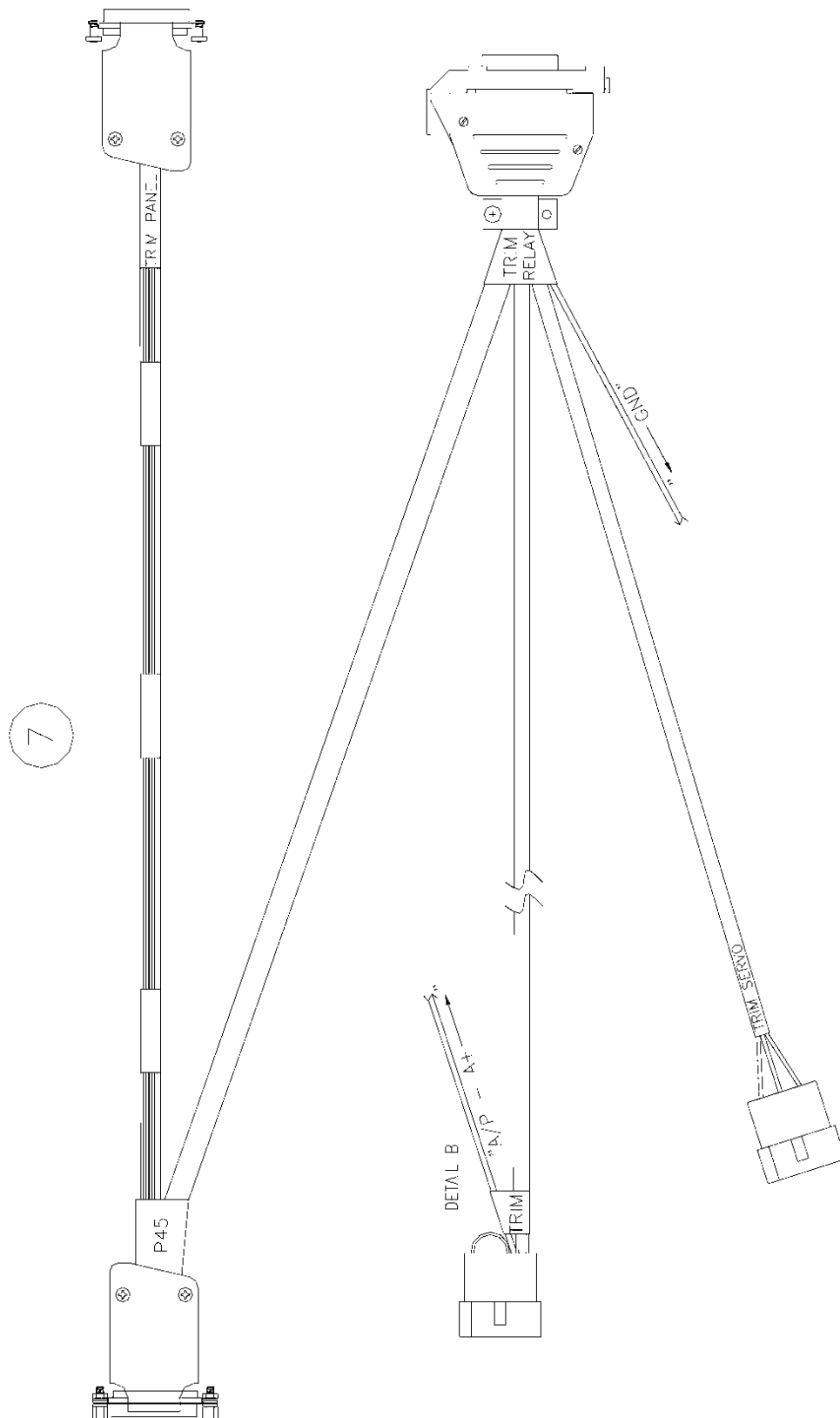
SYSTEM 55 / 55X COMPUTER

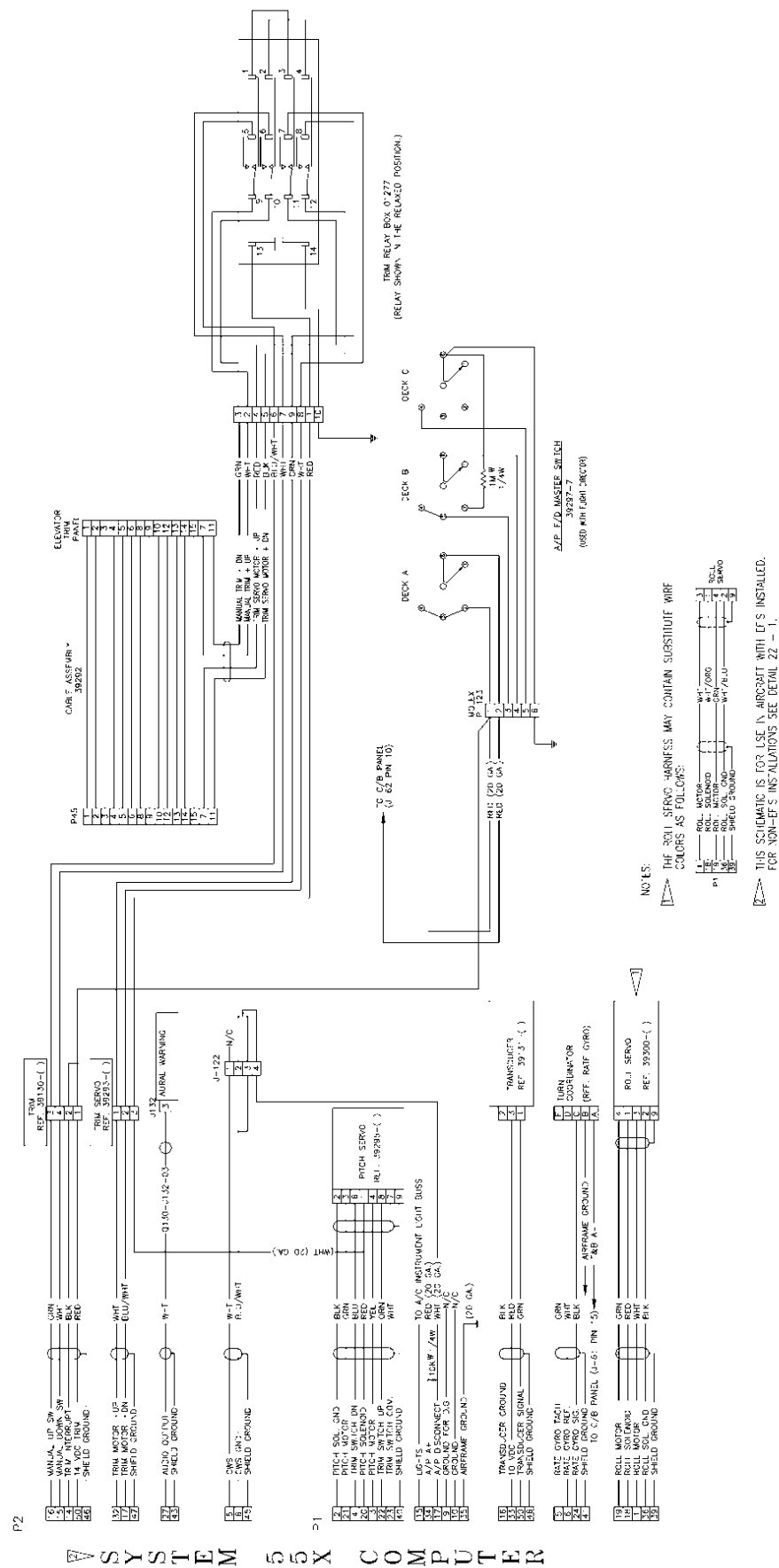
Detail 22 - 1 S-Tec 55X Autopilot (3/4)





Detail 22 - 2 S-Tec System 55X Autopilot Cable Interface, EFIS (LB53221000A3) (1/3)

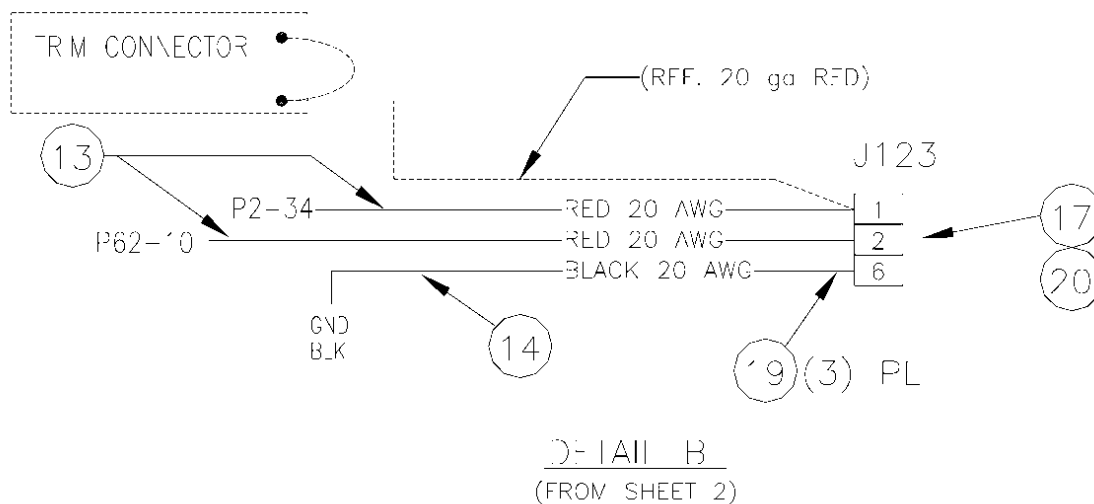
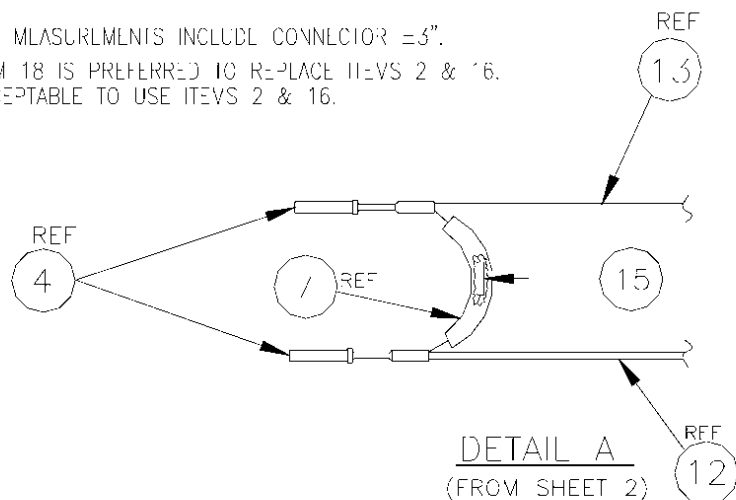
**Detail 22 - 2 S-Tec System 55X Autopilot Cable Interface, EFIS (2/3)**



Detail 22 - 2 S-Tec System 55X Autopilot Cable Interface, EFIS (3/3)

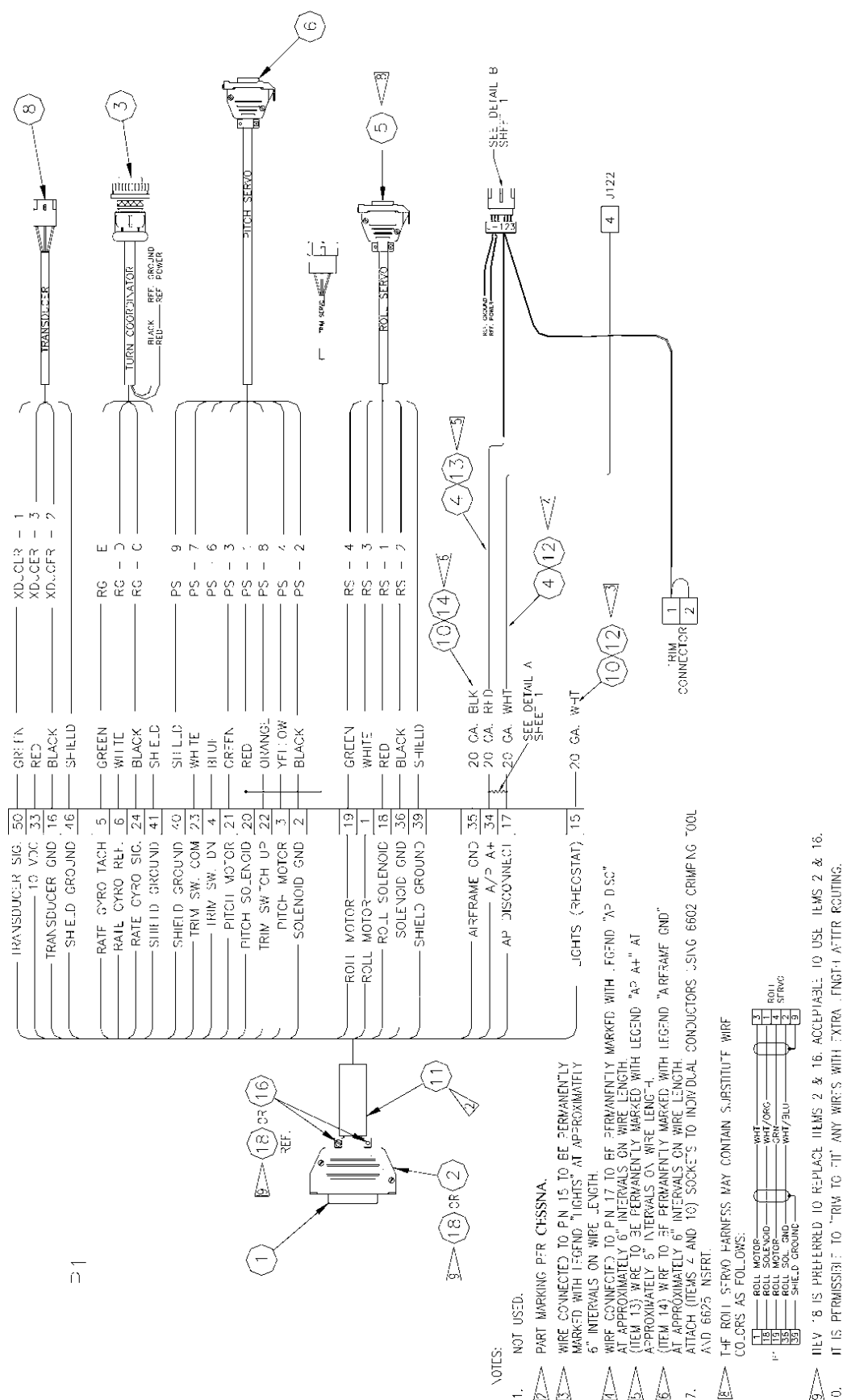
NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR = 3".
2. ITEM 18 IS PREFERRED TO REPLACE ITEMS 2 & 16. ACCEPTABLE TO USE ITEMS 2 & 16.



20	1	0815-250	HEAT SHRINK, 1/4" OD X .75" LONG
19	3	5225	CONTACT, SOCKET, CRIMP
18	1	DD-2466	BACKSHELL, D-SUB SIZE 5, METAL W/CABLE CLAMP, CATCH
17	1	34233	RECEPTACLE, CONTACT
16	2	1109C510-8	SCREW, 5-40 x 1/2, STEEL
15	1	20104001052	RESISTOR, 10K, 1/4 W, 1% 1/5 W, STEEL
14	2	37082010	WIRE, 20 GA., BLK, 60", STEEL
13	3	37082002	WIRE, 20 GA., RED, 60", STEEL
12	2	37082009	WIRE, 20 GA., WHITE, 116", STEEL
11	1	0815-750	HEAT SHRINK, 3/4" OD x 2", STEEL
10	2	5208	CONTACT, SOCKET, 20-26 GA, STEEL
9			NO. JST
8	1	39131 48	CABLE ASSEMBLY, XDCR, 48", STEEL
7	AR	0815-093	HEAT SHRINK, 3/32" OD x 3", STEEL
6	1	39295-86	CABLE ASSEMBLY, PITCH SERVO, 186", STEEL
5	1	39300-25	CABLE ASSEMBLY, ROLL SERVO, 125", STEEL
4	2	5295	CONTACT, SOCKET, 18 GA, STEEL
3	1	3903-79	CABLE ASSEMBLY, TURN COORDINATOR, 179", STEEL
2	1	5505	COVER, 50 PIN CONNECTOR, STEEL
1	1	341	RECEPTACLE, 50 P.N, STEEL
ITEM QTY	PAR	NUMBER	REV.
DESCRIPTION or MATERIAL			
PARTS LIST			

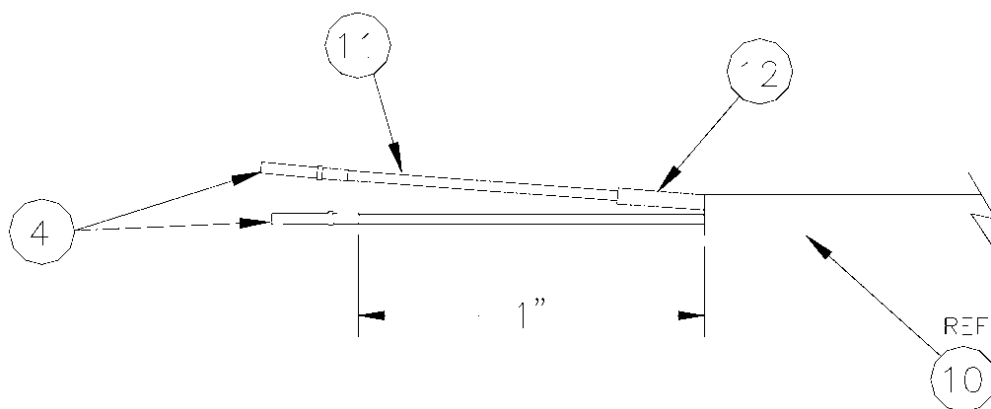
Detail 22 - 3 S-Tec System 55X Autopilot Cable Assembly 1, EFIS (LB53221001B2) (1/2)



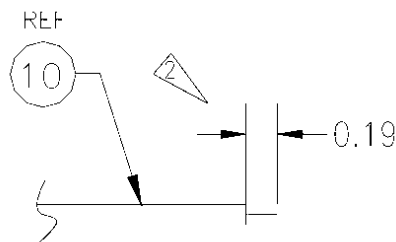
Detail 22 - 3 S-Tec System 55X Autopilot Cable Assembly 1, EFIS (2/2)

NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR $\pm 3"$.
2. STRIP OUTER INSULATION AND SHIELD BACK $1/4"$ AND STRIP INSULATION ON CONDUCTOR $3/16"$ AS SHOWN.
3. ITEM 13 IS PREFERRED TO REPLACE ITEMS 2 & 6. ACCEPTABLE TO USE ITEMS 2 & 6.



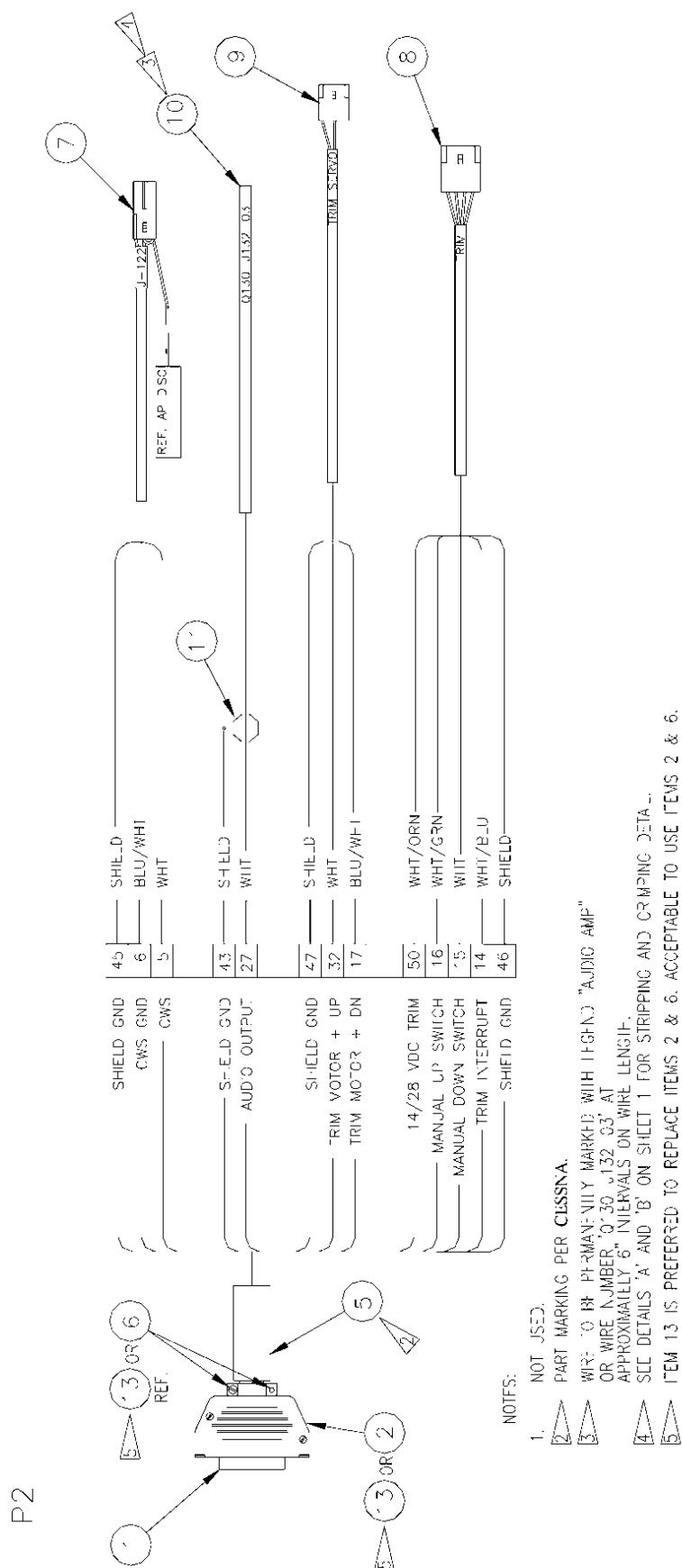
DETAIL A
(FROM SHEET 2)
CONNECTOR END OF CABLE



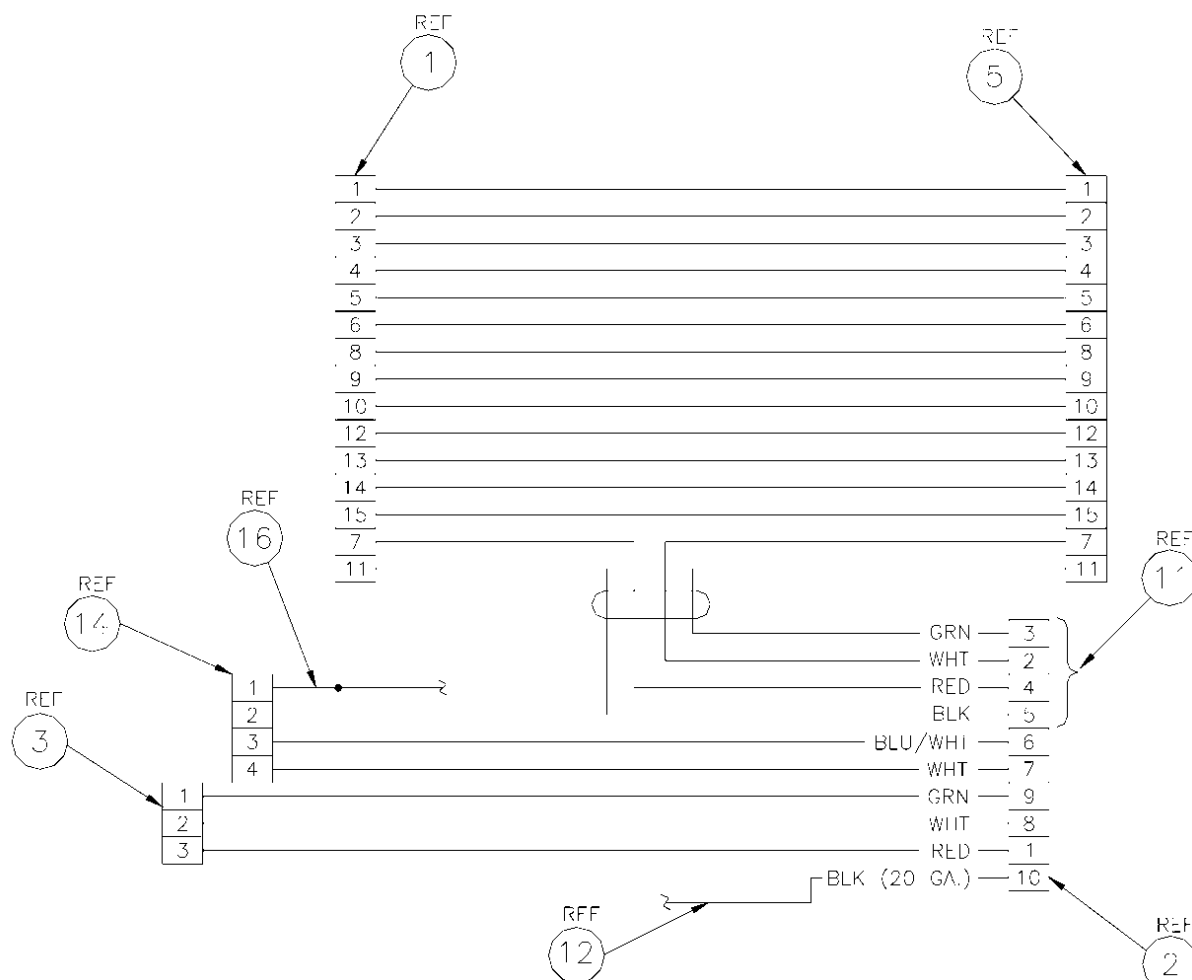
DETAIL B
(FROM SHEET 2)

3	13	1	DD-24661		BACKSHELL, D-SUB 57E 5, METAL W/CABLE CLAMP, CINCH
	12	AR	0815-095		HEAT SHRINK, 3/32" DIA., BLK, SILC
	11	1	52133-02		TERMINATOR, SHIELD, SOLDER SLEEVE, 170 ID X 1.150 OD
	10	1	37062209		WIPE, SHIELDED, 22 ga. WHT, SNG. COND SHIELDED, STEC (REF. 60")
	9	1	39293-12		CABLE ASSEMBLY, TRIM, SERV. STEC (REF. 12")
	8	1	39130-12		CABLE ASSEMBLY, TRIM, SYS 55, STEC (REF. 12")
	7	1	39290-74		CABLE ASSEMBLY, A/P DISCONNECT, CWS, STEC (REF. 74")
3	6	2	1109C540-8		SCREW, SRH, 5-40 x .50 L, STEEL, CAD PLATED, MACH., STEC
	5	1	0815-750		HEAT SHRINK, 3/4" Ø, BLK, STEC
3	4	3	5208		CRIMP CONTACT, RECEPT, D-SUB, CLOSED ENTRY, 20-28 AWC, STEC
	3				NOT USED
	2	1	5505		CONN HOOD, 50 PIN D-SUB, METALIZED W/CABLE CLAMP, STEC
	1	1	3411		RECEPTACLE, RECT 50 CONT, STEC
	ITEM QTY PART NUMBER REV.				DESCRIPTION or MATERIAL
PARTS LIST					

Detail 22 - 4 S-Tec System 55X Autopilot Cable Assembly 2, EFIS (LB53221002B1) (1/2)



Detail 22 - 4 S-Tec System 55X Autopilot Cable Assembly 2, EFIS (2/2)

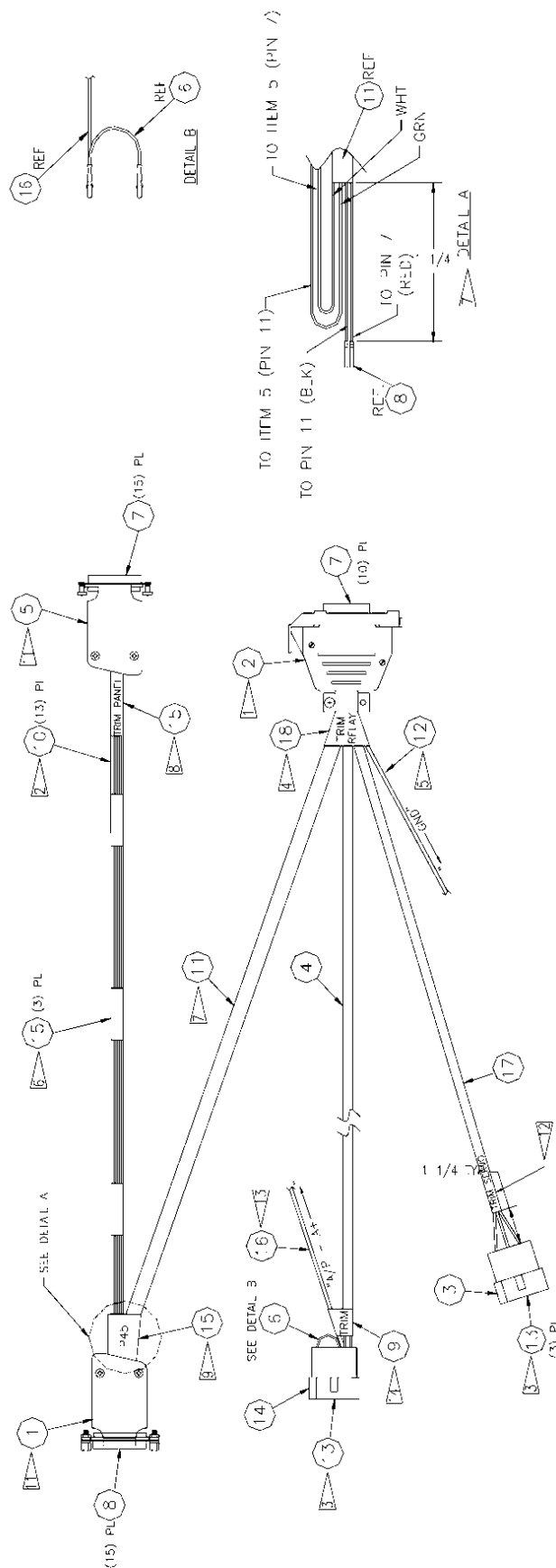


NOTES:

- ALL MEASUREMENTS INCLUDE CONNECTOR $\pm 3"$.

18	1	Q815-375		HEATSHRINK, 3/8" OD X 1-1/2", STEC
17	1	5815		CABLE, 22 GA. SHIELDED, 4 COND., 14", SILC
16	1	37082602		WIRE, 20 GA. RED, 60", STEC
15	5	Q815-375		HEATSHRINK, 3/8" OD X 1", STEC
14	1	3317		PLUG, 4 CONTACT, STEC
13	7	5224		CRIMP CONTACT, 594 D.A., WALE PIN, 18-22 AWG, STEC
12	1	37082010		WIRE, 20 GA. BLK, 60", STEC
11	1	3815		CABLE, 22 GA. SHIELDED, 4 COND., 56", STEC
10	13	37082709		WIRE, 22 GA. WHT, 12", STEC
9	1	Q815-125		HEATSHRINK, 1/8" OD X 1", SILC
8	15	5210		CRIMP CONTACT, MALE PIN, C-SUB CONN, 20-24 AWG, SILC
7	25	5208		CRIMP CONTACT, RECEPT, 3 SJB, CLOSED ENTRY, 20-26 AWG, STEC
6	1	37082202		WIRE, 22 GA. WHT, 1.5", SILC
5	1	34242		RECEPTACLE ASSEMBLY, 15 CONTACT, STEC
4	1	5816		CABLE, 2 CONDUCTOR, 22 AWG, SHIELDED, 14", SILC
3	1	3313		PLUG HOUSING, PIN AND SOCKET, 3 POS, STEC
2	1	34180		CONNECTOR ASSEMBLY, 15 P.N, STEC
1	1	35272		PLUG ASSEMBLY, 15 CONTACT, SILC
ITEM QTY PART NUMBER REV.				DESCRIPTION or MATERIAL
PARTS LIST				

Detail 22 - 5 Autotrim Relay Cable Assembly (LB53221003C) (1/2)

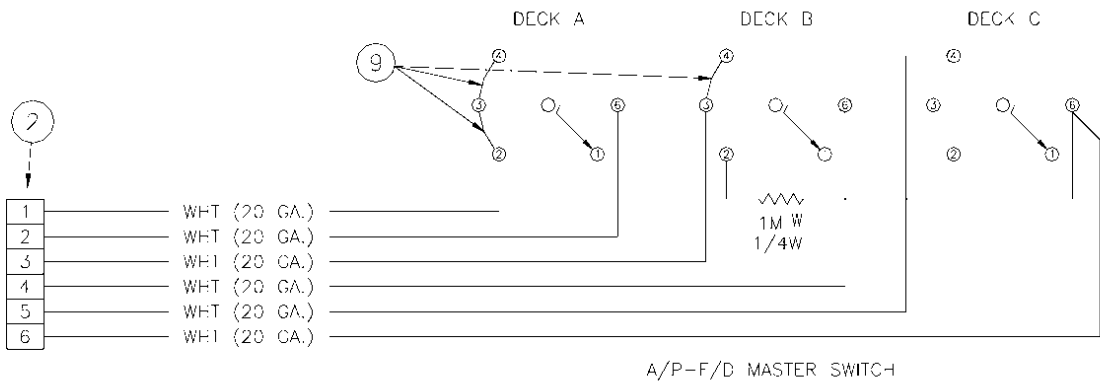
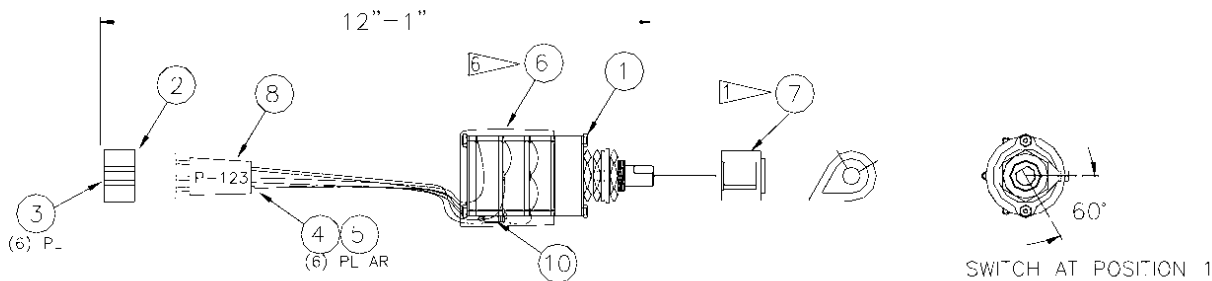


Detail 22 - 5 Autotrim Relay Cable Assembly (2/2)

- NOTES:
1. REFERENCE SIE-C DRAWING NO. 34180 FOR CONNECTOR ASSEMBLY DETAILS.
2. STRIP INDIVIDUAL CONDUCTORS 3/16" PRIOR TO ATTACHING CONTACTS (BOTH ENDS).
3. ATTACH (ITEM 13) PINS TO INDIVIDUAL CONDUCTORS USING 6616 CRIMPING TOOL.
4. (ITEM 18) HEATSHRINK TO BE PERMANENTLY MARKED WITH THE LEGEND "RIM RE-AT".
5. (ITEM 12) WIRE TO BE PERMANENTLY MARKED WITH LEGEND "END" AT 6 IN. INTERVALS ALONG LENGTH OF WIRE.
6. (ITEM 15) HEATS-RINK TO BE ON APPROXIMATELY 3 IN. CENTERS ALONG ENTIRE LENGTH OF (ITEM 10) WRES.
7. (ITEM 10) WRES THROUGH- 3 EACH (ITEM 7) HEATSHRINK PRIOR TO ATTACHING (ITEMS 7 AND 8) CONTACTS.
8. STRIP THE OUTER INSULATION OF 1-E (ITEM 11) CABLE BACK .72 INCHES AT THE (ITEM 1) CONNECTOR END. CUT THE RED AND BLACK CONDUCTORS TO 1 1/4 IN. LG. PRIOR TO CONNECTING (ITEM 8) PINS. ROUTE THE GREEN AND WHITE CONDUCTORS OF THE (ITEM 1) CABLE TO THE (ITEM 5) CONNECTOR AS SHOWN IN DETAIL A.
9. (ITEM 15) HEATS-RINK TO BE PERMANENTLY MARKED WITH THE LEGEND "TRIM PAIR".
10. (ITEM 15) HEATS-RINK TO BE PERMANENTLY MARKED WITH THE LEGEND "P-45".
11. ATTACH (1-EW 8) AND (ITEM 7) PINS AND SOCKET S TO WIRES USING 6610 CRIMPING TOOL AND 6611 INSERT.
12. REFER TO DRAWING NO. 33272 FOR CONNECTOR ASSEMBLY DETAILS.
13. (ITEM 17) CABLE TO BE PERMANENTLY MARKED WITH LEGEND "TRIM SERVO".

NOTES:

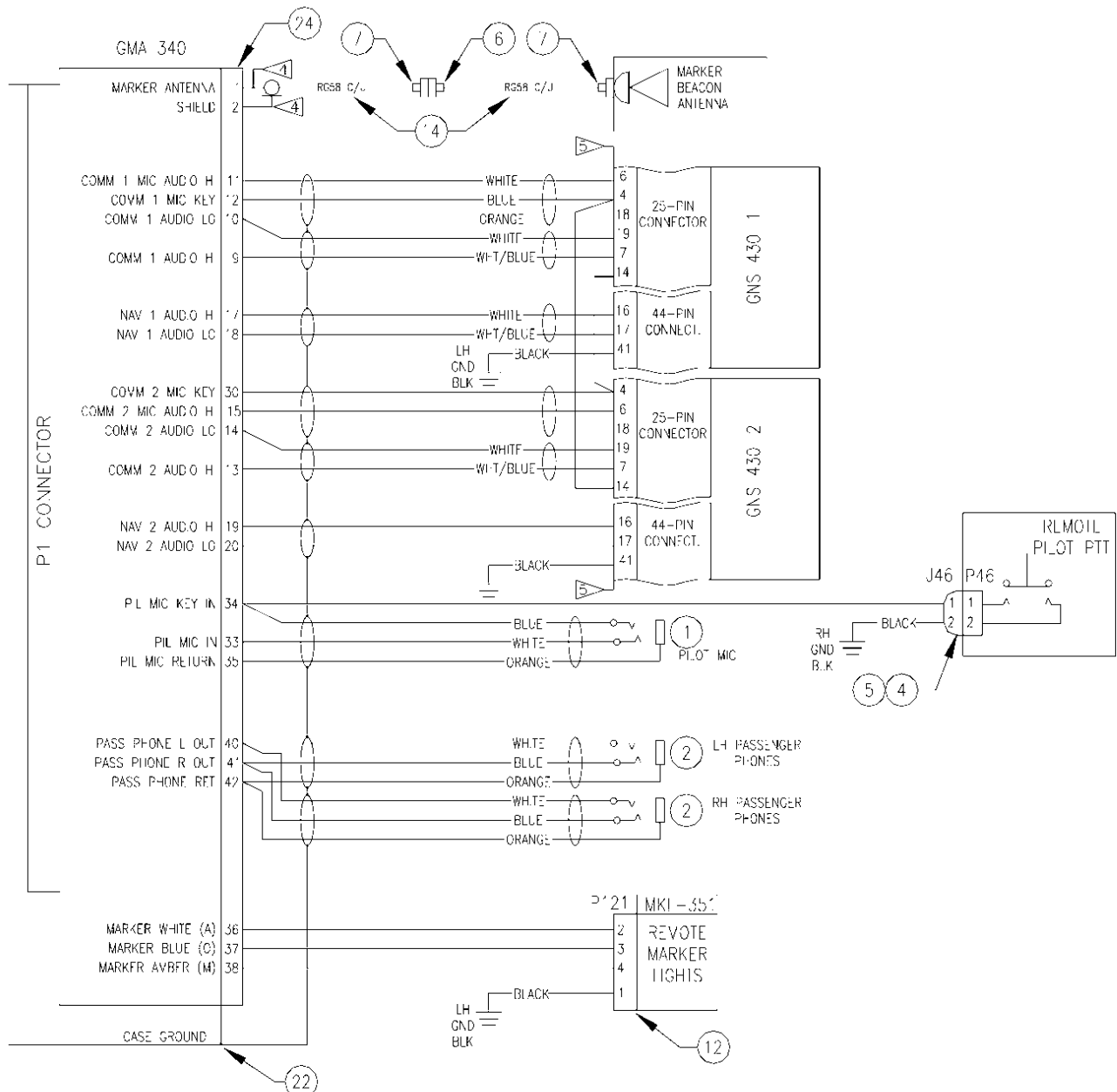
- 1. SWITCH SHOWN IN THE "OFF" POSITION.
- 2. INSTALL ITEM 7 ON ITEM 1 BY TIGHTENING 2 EACH "ALLEN" SCREWS IN ITEM 7.
- 3. ITEM 8 TO BE PERMANENTLY MARKED WITH THE LEGEND "P-123".
- 4. SOLDER ITEMS 4 AND 9 TO ITEM 1. UPON COMPLETION OF SOLDERING, COVER THE SWITCH BODY WITH ITEM 6. SHRINK HEAT SHRINK.
- 5. ATTACH ITEM 3 TO INDIVIDUAL WIRES TO CONNECTOR END OF CABLE ASSEMBLY USING 6616 CRIMPING TOOL.
- 6. ITEM 6 TO BE PERMANENTLY MARKED WITH THE FINISHED PART NUMBER. (EXAMPLE: 39297-12).
- 7. JUMPERS SHOWN ON ITEM 1 ARE EXTERNAL.



ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL PARTS LIST
1	1	181W0001004	RESISTOR, CARBON, 1M, 5%, 1/4W, STEC
3	3	37082009	WIRE, 20 GA., WHT, S COND., 3/4", STEC
8	1	0815-250	HEATSHRINK, B.K., 1/4 DIA. x 3/4", STEC
7	1	5863	KNOB, CONTROL, POINTER, STEC
6	1	0815-1500	HEATSHRINK, B.K., 1.5 DIA. x 1-1/8", STEC
5	AR	0703	SOLDER, WIRE, .050" DIA, STEC
4	6	37082009	WIRE, 20 GA. WHT, S COND x 12", STEC
3	6	5224	CONTACT, CRIMP, .093 DIA., MALE PIN, 18-22 AWG, STEC
2	1	33268	PLUG, 6 CONTACT, STEC
1	1	3596	SWITCH, ROTARY, 60° INCFX, 3 DECKS, 1 POLE/DECK, STEC

Detail 22 - 6 A/P-F/D Master Switch Cable Assembly (LB53221004-) (1/1)

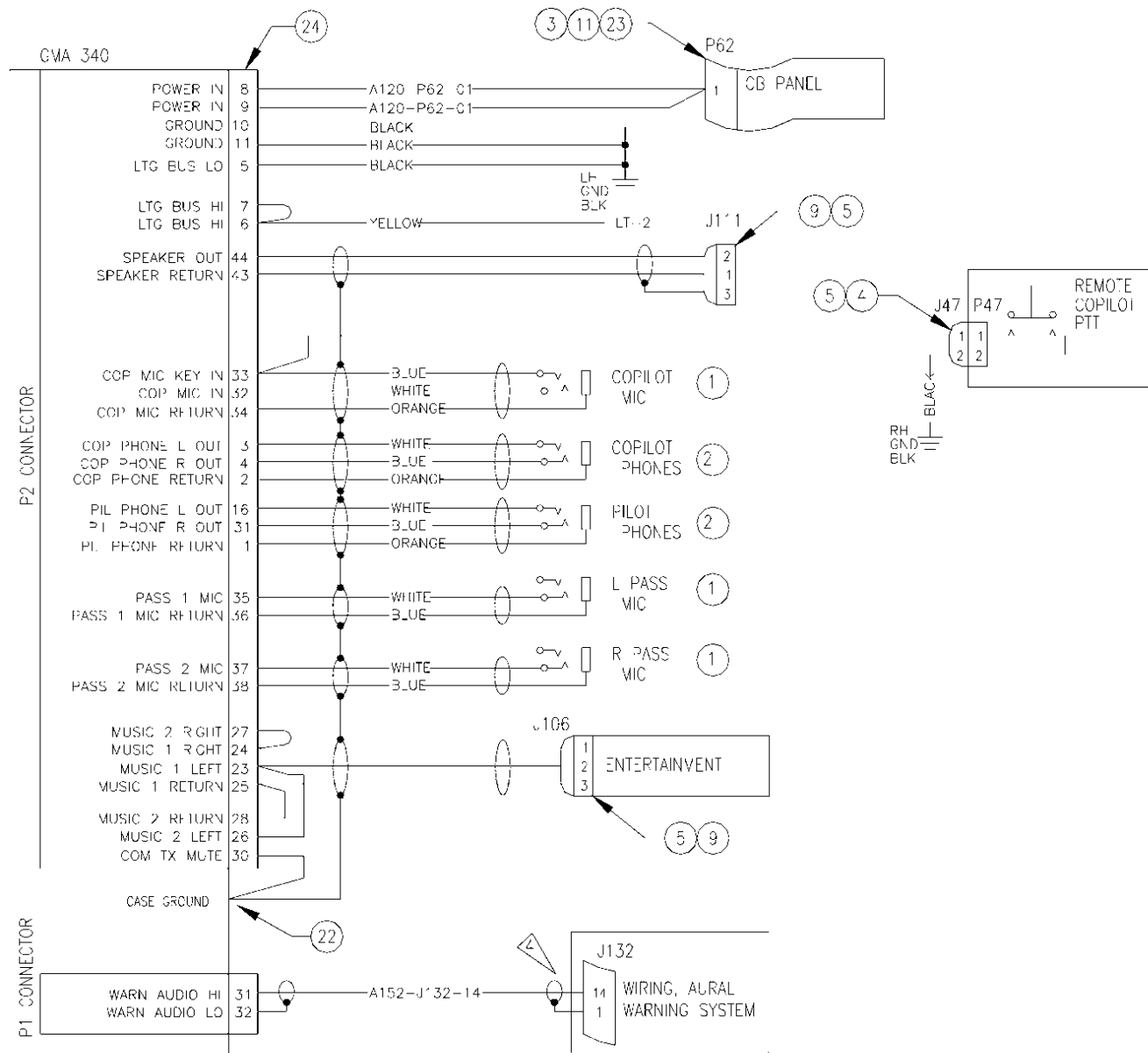
- End of Chapter -



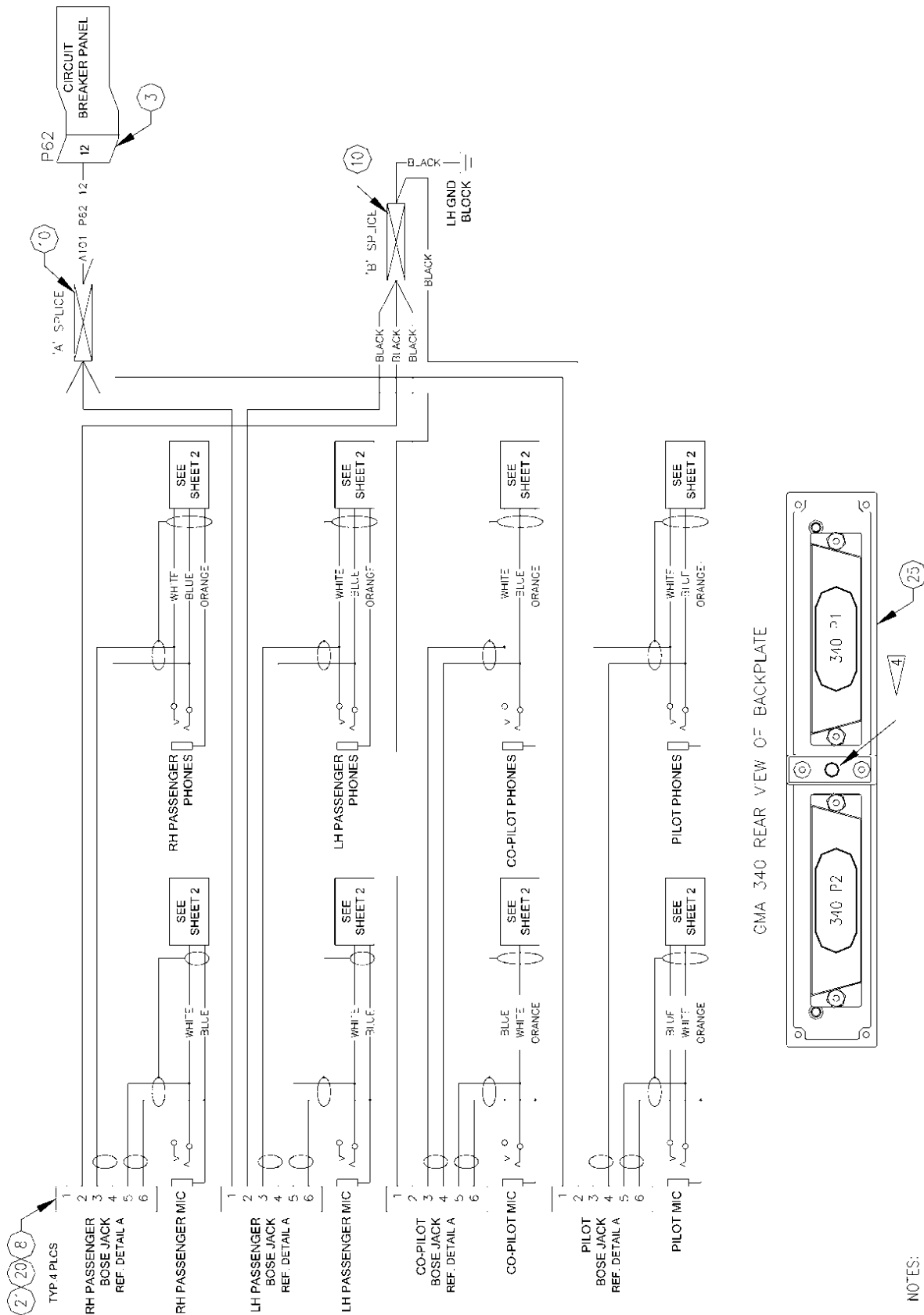
NOTES:

1. ALL WIRE SIZE S 22 AWG UNLESS OTHERWISE SPECIFIED.
2. CRIMP STYLE PINS ARE PREFERRED.
3. NOT USED.
4. SPLICE A 22 GAUGE WIRE TO THE RG58 CENTER CONDUCTOR FOR TERMINATING THE COAX TO THE CONNECTOR. TERMINATE THE COAX SHIELD TO THE CONNECTOR USING 22 GAUGE WIRE.
5. PINS USED HERE ARE PART OF GNS 430 CONNECTOR KIT.

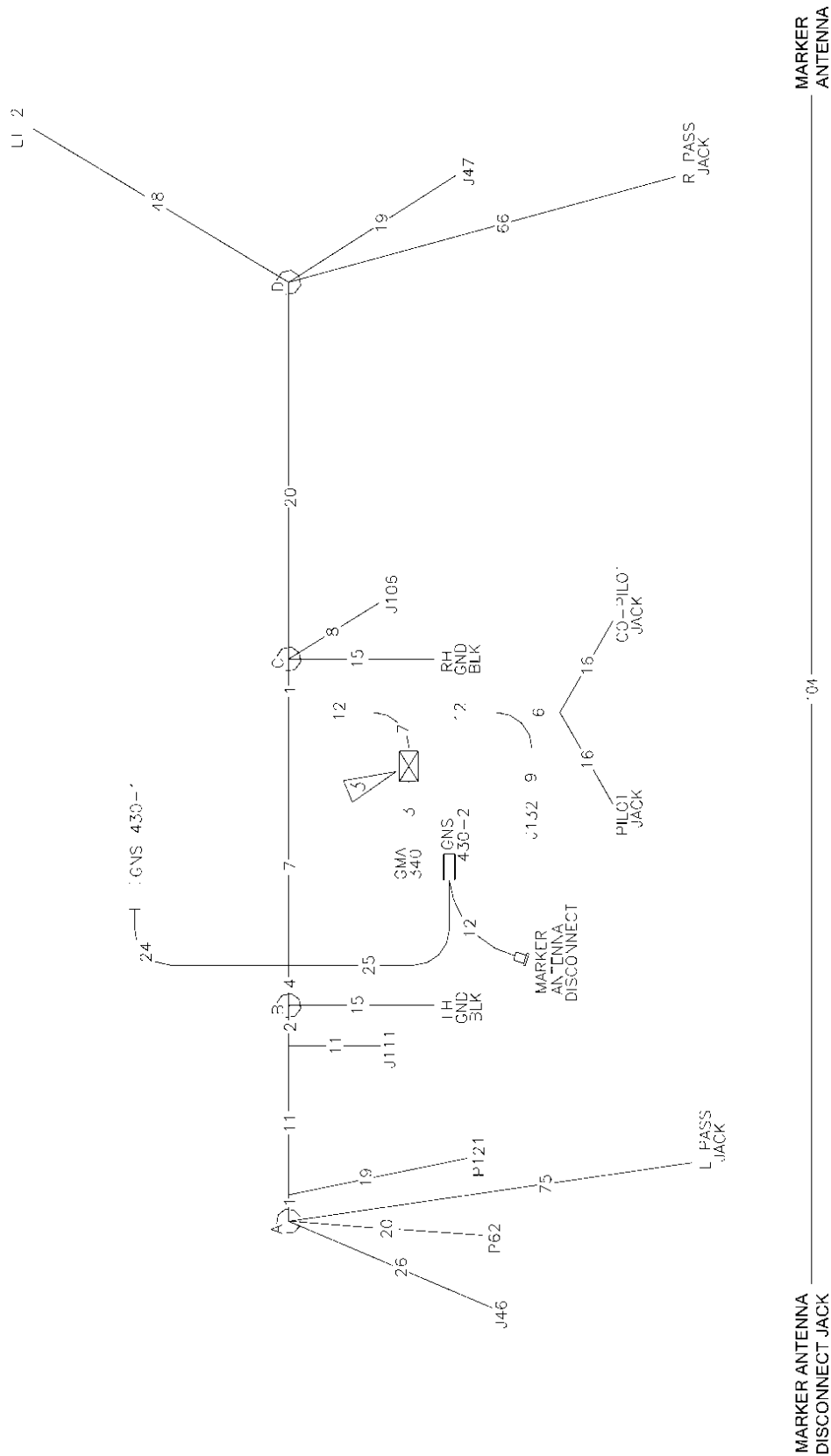
Detail 23 - 1 GMA 340 Audio Amp Wiring (LB53344310D2) (1/5)



Detail 23 - 1 GMA 340 Audio Amp Wiring (2/5)



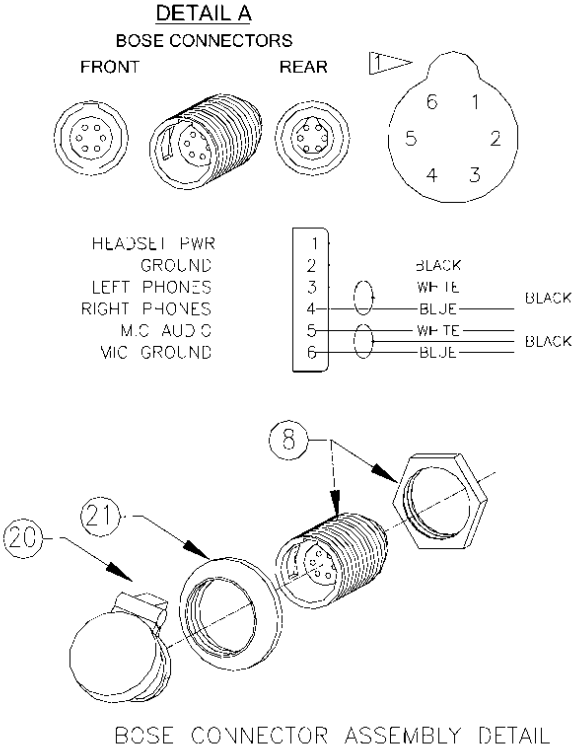
Detail 23 - 1 GMA 340 Audio Amp Wiring (3/5)



NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. OTHER HARNESSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED TOGETHER WITH THIS HARNESS.
3. LOCATION OF SPLICE.
4. X REFERENCE POINTS COMMON TO ALL HARNESSES.

Detail 23 - 1 GMA 340 Audio Amp Wiring (4/5)

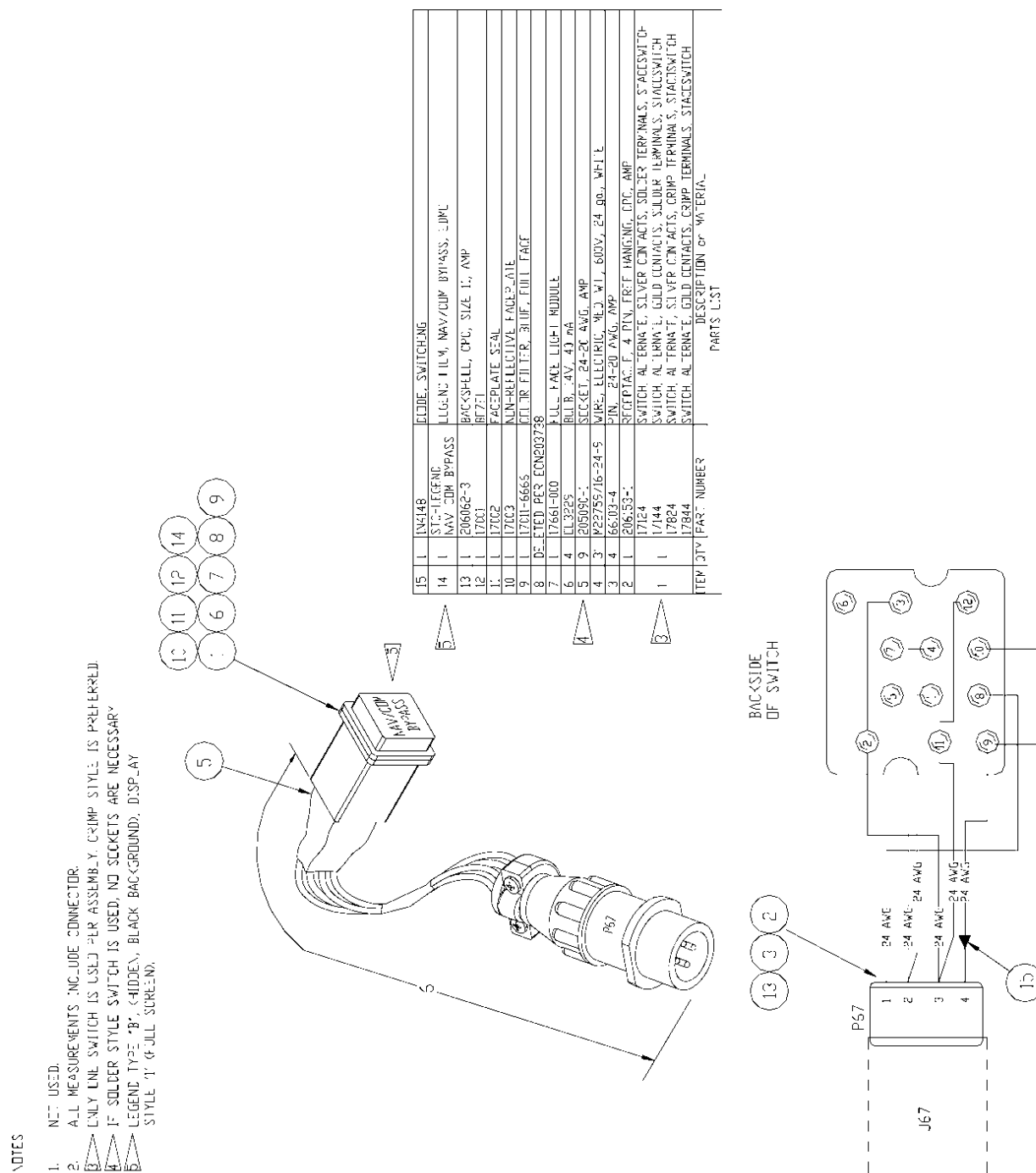


- 1 ALL CRIMPED SOCKETS INSERT FROM THE REAR OF THE CONNECTOR IN PATTERN SHOWN.
- 2 CRIMP STYLE PINS ARE PREFERRED.

25	1	011-00678-00	RACK, BACKPLATE, GMA 340, GARMIN
24	1	011-00652-00	CONNECTOR KIT, GMA 340, GARMIN
23	1	206036-3	RECEPTACLE, 7-16 PIN, CPC, FREE HANGING, AMP
22	2	36152	TERMINAL, RING, 22-16 AWG, #6 STUD, RFD
21	4	PKG.22.DLV.1	CAP NUT, LEMO-USA
20	4	BRR.2S.200.PZSN	CAP, LEMP-USA
19	55'	M27500/18-22-3	CABLE, ELEC., SHIELDED, 22 ga. THREE CONDUCTOR
18	42'	M27500/18-22-2	CABLE, ELEC., SHIELDED, 22 ga. TWO CONDUCTOR
17	6'	M27500/18-22-1	CABLE, ELEC., SHIELDED, 22 ga. SINGLE CONDUCTOR
16	8'	M22759/16-22-4	WIRE, ELEC., MED. WT., 600 V, 22 ga., YELLOW
15	69'	M22759/16-22-0	WIRE, ELEC., MED. WT., 600 V, 22 ga., BLACK
14	10'	RG58 C/U	CABLE, COAX
13	82'	M22759/16-22-9	WIRE, ELEC., MED. WT., 600 V, 22 ga., WHITE
12	1	690227	INSTALLATION KIT, MKL351, STEC
11	1	206070-1	BACKSHEET, SIZE 17, CPC, AMP
10	2	320559	SPLITTER, DC, 22-18 AWG, AMP
9	2	770333-1	RECEPTACLE, 3-PIN, FREE HANGING, AMP
8	4	PKG.MO.6TL.MN	CONNECTOR KIT, CRIMP STYLE TERMINALS, LEMO-USA
		PKG.MO.6TL.LN	CONNECTOR KIT, SOLDER STYLE TERMINALS, LEMO-USA
7	2	PKG.MO.6NL.MN	CONNECTOR KIT, CRIMP STYLE TERMINALS, LEMO-USA
		PKG.MO.6NL.LN	CONNECTOR KIT, SOLDER STYLE TERMINALS, LEMO-USA
6	2	225395-1	CONNECTOR, STRAIGHT, BNC, RG58, AMP
5	1	225396-1	CONNECTOR, STRAIGHT, BNC, RG58, AMP
4	10	794016-1	SOCKET, 24-18 AWG, AMP
3	2	770342-1	RECEPTACLE, 2 PIN, FREE HANGING, AMP
2	3	661034	PIN, 24 20 AWG, AMP
1	4	12B	JACK, PHONE, STEREO, SWITCH-CRAFT
	4	J033	JACK, MIC, SWITCH-CRAFT
ITEM	QTY	PART NUMBER	REV. DESCRIPTION or MATERIAL

PARTS LIST

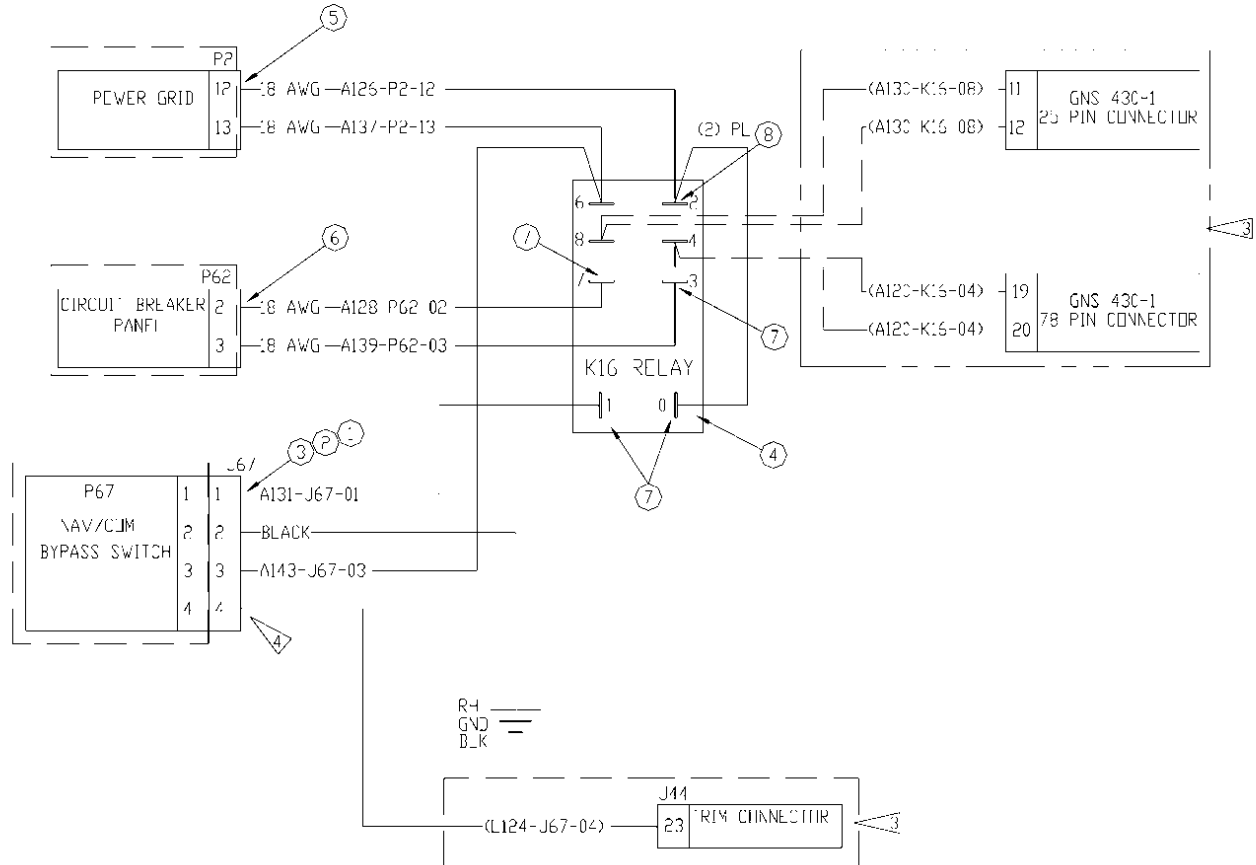
Detail 23 - 1 GMA 340 Audio Amp Wiring (5/5)



Detail 23 - 2 NAV/COM Bypass Switch (LB53511413B) (1/1)

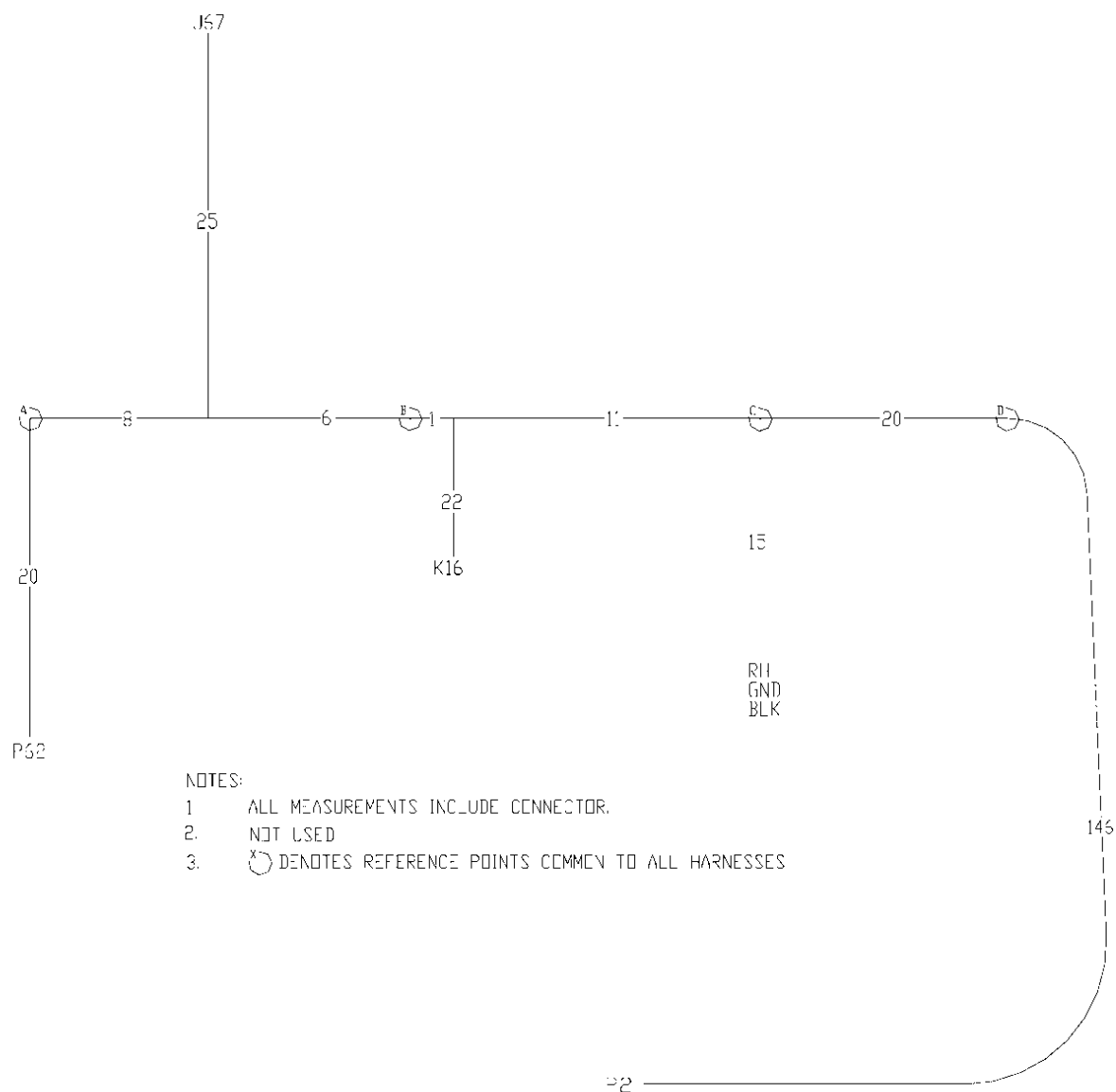
NOTES:

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2. NOT USED.
3. WIRING SHOWN HERE AS A REFERENCE ONLY. WIRES AND TERMINALS ARE PART OF REF. DRAWINGS SHOWN.
4. WIRE IS TRIMMED TO FIT, TERMINATED AND INSTALLED HERE. LEAVE CONNECTOR BODY OPEN UNTIL ALL WIRES ARE INSTALLED.

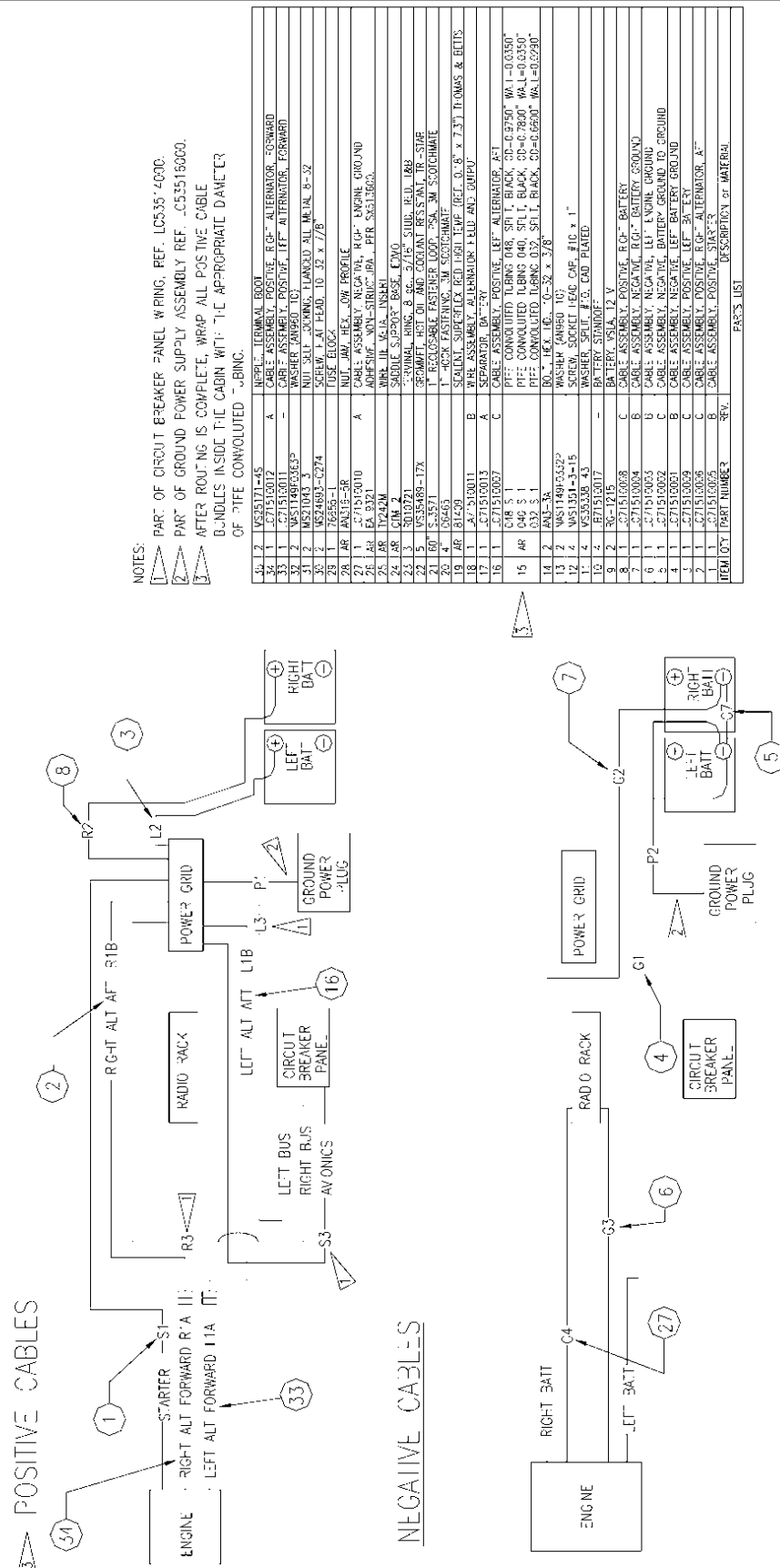


11	6'	M22759/16-22-3	WIRE, ELEC, MFD. WT., 600 V, 22 ga, BLACK
10	27'	M22759/16-22-9	WIRE, ELEC, MFD. WT., 600 V, 22 ga, WHITE
9	27'	M22759/16-18-5	WIRE, ELEC, MFD. WT., 600 V, 18 ga, WHITE
8	2	610905-1	RECEPTACLE, 250 BLUE, 16-14, AMP
7	4	610903-1	RECEPTACLE, 250 RED, 22-18, AMP
6	2	65361-4	PIN, 18-14 AWG, AMP
5	2	65099-4	PIN, 18-14 AWG, AMP
4	1	W92S11022-12	RELAY, 12VDC-20 A, MAGNETIC
3	4	65105-4	SOCKET, 24-20 AWG, AMP
2	1	23606C-1	PLUG, 4 PIN, FREE HANGING, AMP
1	1	23606C-3	BACKSHELL, CPC, SIZE 1, AMP
ITEM	QTY	PART NUMBER	REV. DESCRIPTION OR MATERIAL
PARTS LIST			

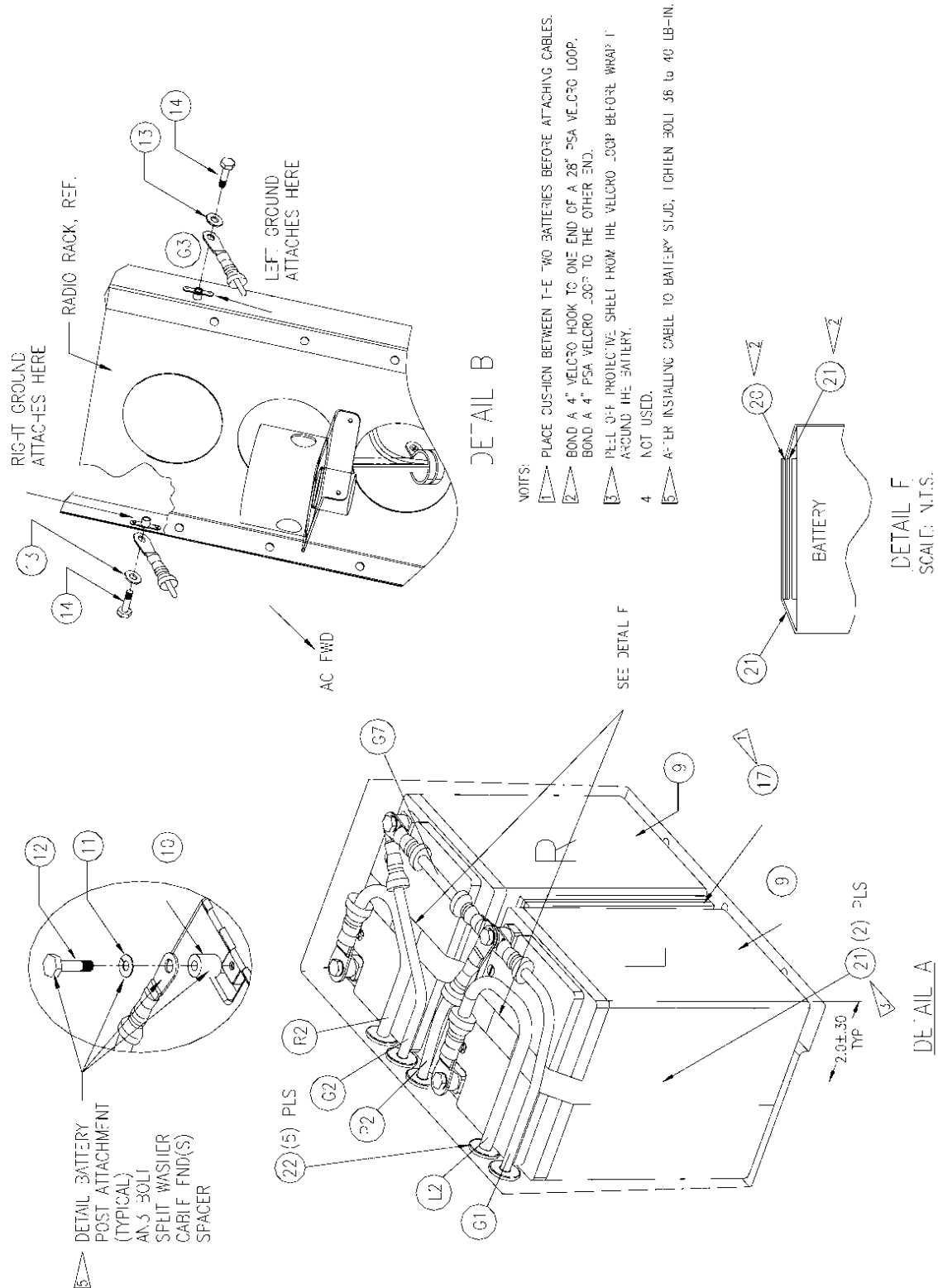
Detail 23 - 3 NAV/COM Bypass Wiring, Garmin Avionics (LC53511415-1) (1/2)

**Detail 23 - 3 NAV/COM Bypass Wiring (2/2)**

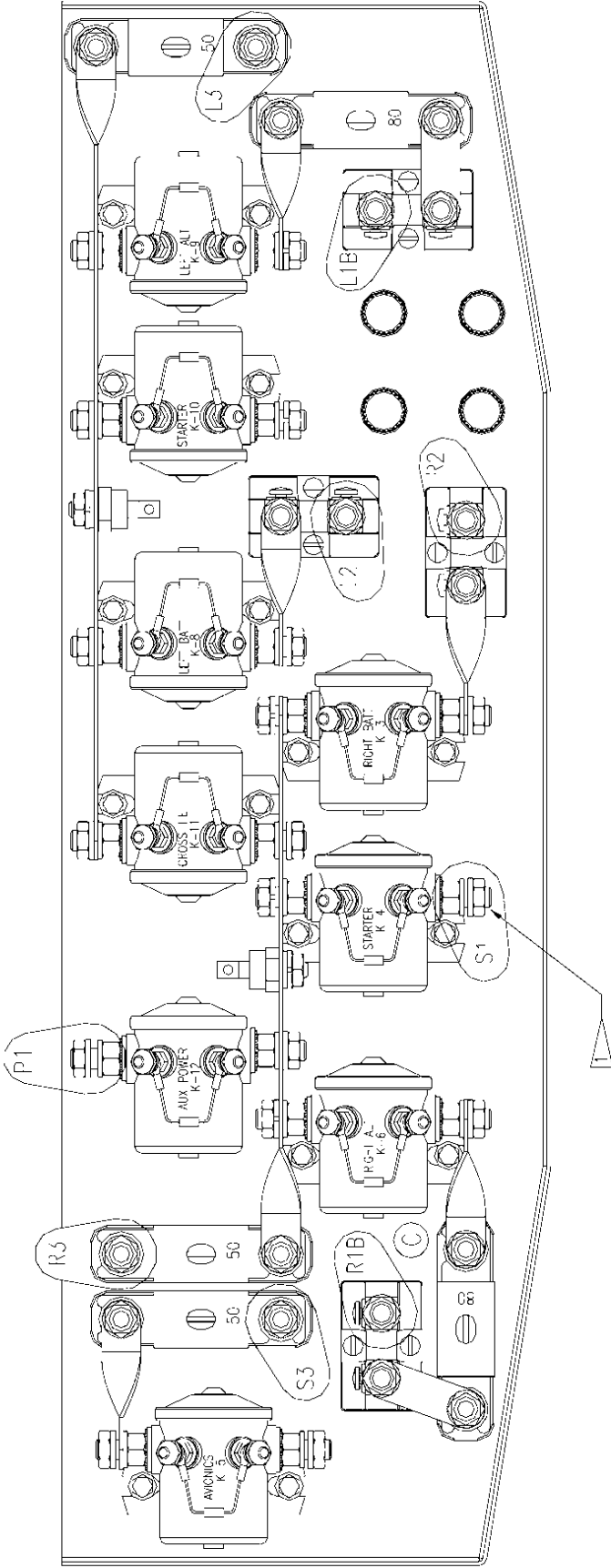
- End of Chapter -



Detail 24 - 1 Electrical Power Cable Distribution (LC71510000D) (1/8)



Detail 24 - 1 Electrical Power Cable Distribution (2/8)



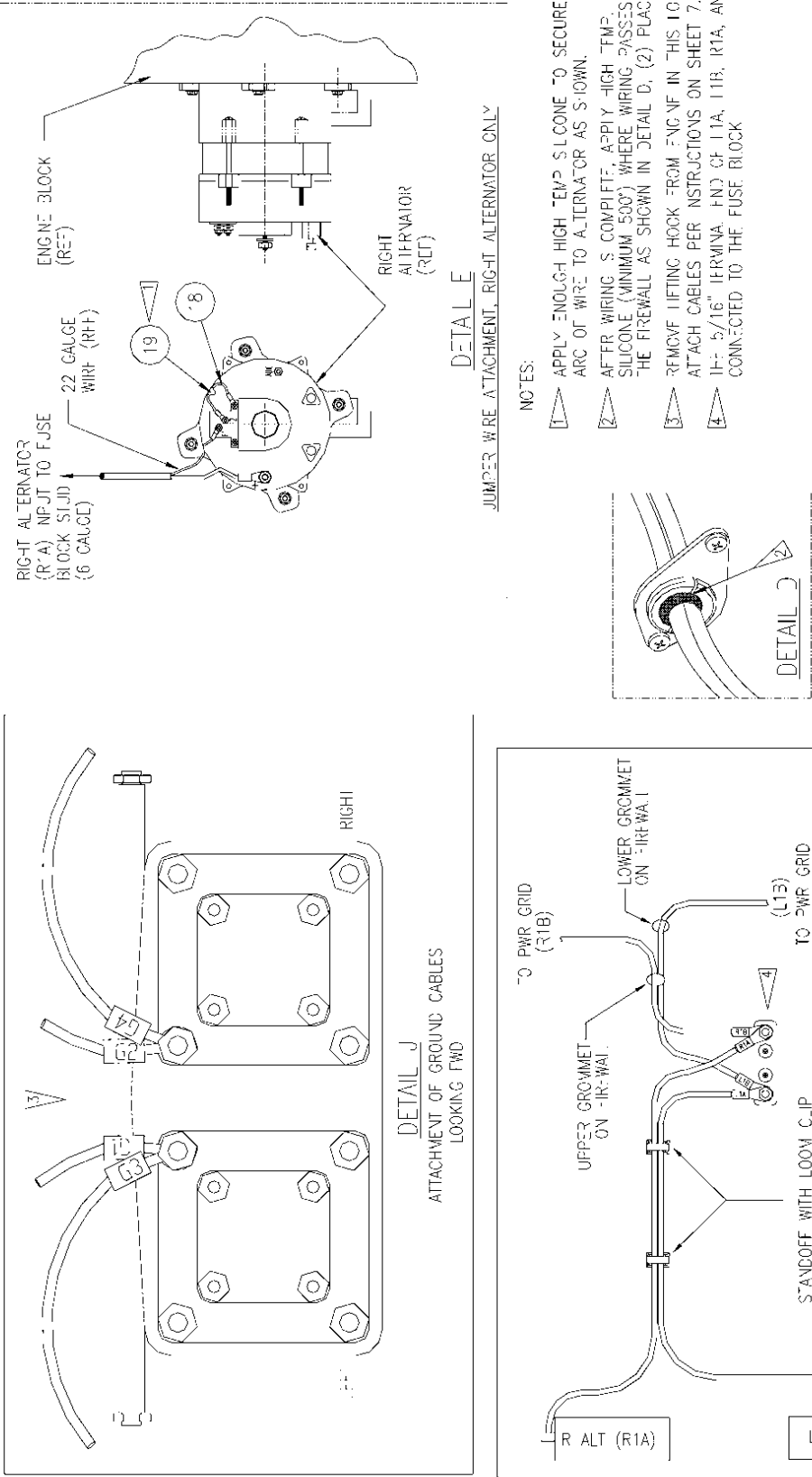
DETAIL C

CABLE ATTACHMENT TO THE POWER DISTRIBUTION GROUND

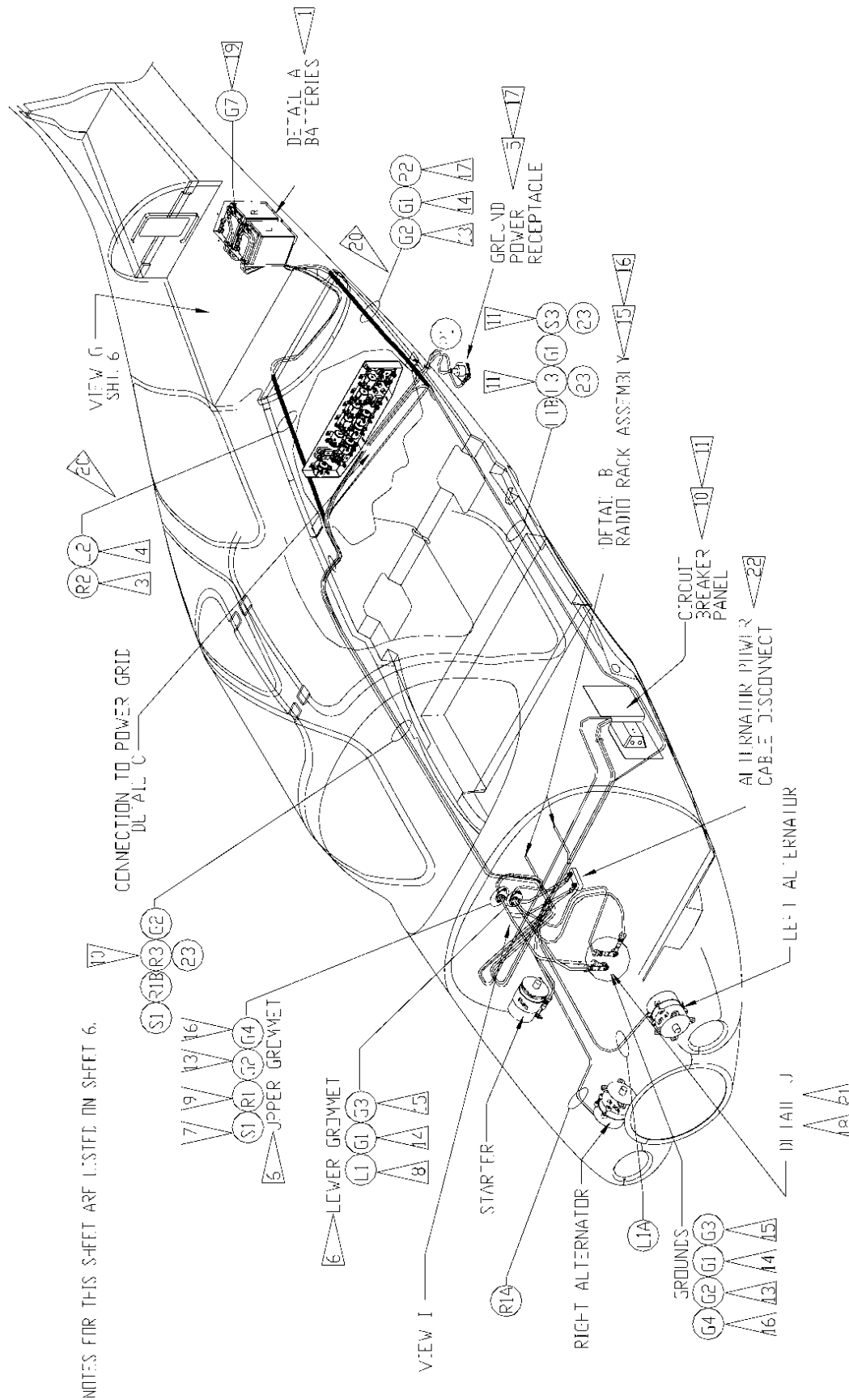
NOTES:

- IF A MINIMUM OF TWO TERMINALS ARE NOT SHOWING AFTER INSTALLATION OF THE S1 CABLE, REMOVE THE AN315-5R NUT AND REPLACE IT WITH A LOW PROFILE AN316 5R NUT.

Detail 24 - 1 Electrical Power Cable Distribution (3/8)



Detail 24 - 1 Electrical Power Cable Distribution (4/8)

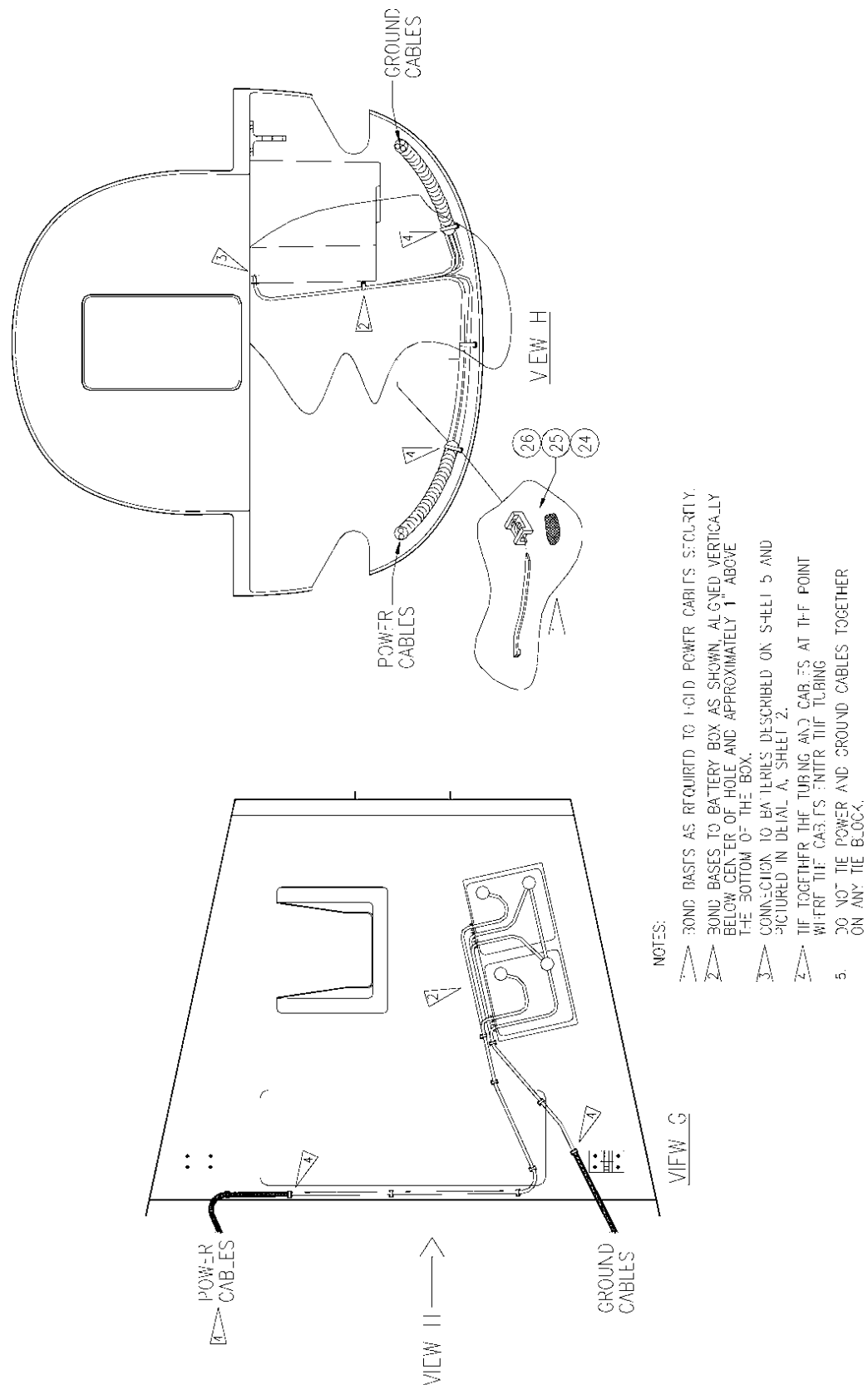


Detail 24 - 1 Electrical Power Cable Distribution (5/8)

NOTES FOR SHEET 15:

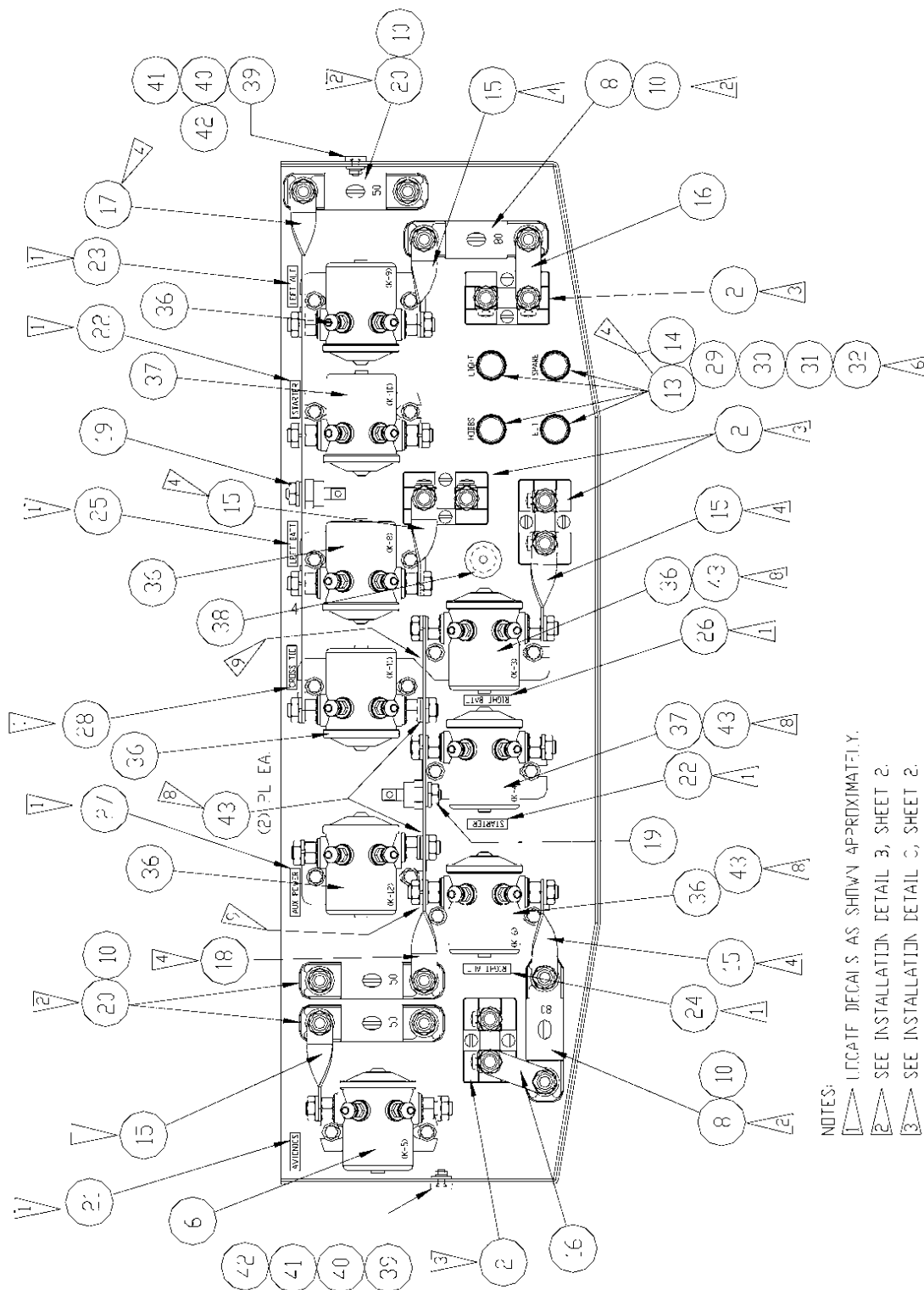
1. WHEN CONNECTING OR DISCONNECTING THE BATTERY CABLES, ALWAYS CONNECT THE POSITIVE CABLE FIRST AND ALWAYS DISCONNECT THE NEGATIVE CABLE FIRST. NOTICES 2 THROUGH 11 APPLY TO POSITIVE CABLES.
2. NOT USED.
3. ATTACH THE SMALLER TERMINAL TO THE RIGHT SIDE (FARTHEST AFT) POSITIVE BATTERY STUD (DETAIL A) AND ROUTE THE CABLE (G2) TO THE POWER GRID ASSEMBLY (SEE SHEET 6, POWER CABLES). ATTACH TO THE SHUNT PER DETAIL C.
4. ATTACH THE SMALLER TERMINAL TO THE LEFT SIDE POSITIVE BATTERY STUD (DETAIL A) AND ROUTE THE CABLE (G2) TO THE POWER GRID ASSEMBLY (SEE SHEET 6, POWER CABLES). ATTACH TO THE SHUNT PER DETAIL C.
5. ROUTE THE POSITIVE CABLE FROM THE GROUND POWER RECEPTACLE (P1) TO THE POWER GRID PANEL. TRIM TO FIT AT THE STUD ON THE AUX POWER RELAY, TERMINATE AND ATTACH TO THE SHUNT PER DETAIL C.
6. POWER AND GROUND WIRES RUNNING IN BUNDLES AND GOING THROUGH A FIREWALL HOLE MUST BE MAINTAINED IN A SYSTEM LEFT AND RIGHT GROUND WIRES MUST BE IN THE SAME BUNDLE. DO NOT MISMATCH LEFT AND RIGHT WIRES. FOR EXAMPLE: DO NOT RUN A LEFT AND A RIGHT GROUND WIRE TOGETHER THROUGH THE GROUND.
7. ATTACH THE END OF THE STARTER CABLE (G3) TO THE STARTER AS SHOWN. ROUTE THE OTHER END THROUGH THE UPPER GROMMET IN THE FIREWALL AND ALONG THE RIGHT SIDE OF THE FUSELAGE. ATTACH TO THE STARTER SHUNT PER DETAIL C.
8. ATTACH THE LARGE END OF THE LEFT ALTERNATOR CABLE (L1) TO THE STUD ON THE LEFT ALTERNATOR. ROUTE THE OTHER END PER DETAIL K, AND THROUGH THE LOWER GROMMET ON THE FIREWALL AND ALONG THE LEFT SIDE OF THE FUSELAGE TO THE POWER GRID. ATTACH TO THE SHUNT PER DETAIL C.
9. ATTACH THE LARGE END OF THE RIGHT ALTERNATOR CABLE (R1) TO THE STUD ON THE RIGHT ALTERNATOR (AT THE FRONT OF THE ENGINE). ROUTE THE OTHER END PER DETAIL K, AND THROUGH THE UPPER GROMMET ON THE FIREWALL AND ALONG THE RIGHT SIDE OF THE FUSELAGE TO THE POWER GRID. ATTACH TO THE SHUNT PER DETAIL C.
10. THE RIGHT BUS (R3) IS ROUTED FROM THE CIRCUIT BREAKER PANEL. WITH THE LEFT SIDE BUNDLE ACROSS THE FIREWALL AND ALONG THE RIGHT SIDE OF THE FUSELAGE, CABLE IS TRIMMED TO FIT AND TERMINATED AT THE POWER GRID PANEL PER DETAIL C.
11. THE LEFT BUS (L3) AND AVIONICS BUS (S3) CABLES ARE ROUTED OUT OF THE CIRCUIT BREAKER PANEL AND DOWN THE LEFT SIDE OF THE FUSELAGE. THEY ARE TRIMMED TO FIT AND TERMINATED AT THE POWER GRID PANEL PER DETAIL C.
12. NOTES 13 THROUGH 20 APPLY TO NEGATIVE CABLES.
13. ATTACH THE SMALLER TERMINAL TO THE RIGHT SIDE (FARTHEST AFT) BATTERY GROUND STUD (DETAIL A) AND ROUTE THE CABLE (G2) ALONG THE LEFT SIDE OF THE FUSELAGE CROSSING OVER TO THE RIGHT SIDE IN FRONT OF THE POWER GRID. ROUTE THE CABLE THROUGH THE UPPER GROMMET ON THE FIREWALL AND ATTACH THE LARGER TERMINAL UNDER THE RIGHT SIDE NUT FORMERLY HOLDING THE LIFTING HOOK (REF. NOTE 18) AT THE REAR OF THE ENGINE PER DETAIL C.
14. ATTACH THE SMALLER TERMINAL TO THE LEFT SIDE BATTERY GROUND STUD (DETAIL A) AND ROUTE THE CABLE (G2) ALONG THE LEFT SIDE OF THE FUSELAGE ROUTE THROUGH THE LOWER GROMMET AND ATTACH THE LARGER TERMINAL UNDER THE LEFT SIDE NUT FORMERLY HOLDING THE LIFTING HOOK (REF. NOTE 18) AT THE REAR OF THE ENGINE PER DETAIL C.
15. ATTACH THE LARGER TERMINAL UNDER THE LEFT SIDE NUT HOLDING THE LIFTING HOOK AT THE REAR OF THE ENGINE. PER DETAIL J. ROUTE THE CABLE (G3) THROUGH THE LOWER GROMMET ON THE FIREWALL AND ATTACH THE SMALLER TERMINAL TO THE LEFT SIDE GROUNDING NUT PLATE ON THE RADIO RACK PER DETAIL B.
16. ATTACH THE LARGER TERMINAL UNDER THE RIGHT SIDE NUT HOLDING THE LIFTING HOOK AT THE REAR OF THE ENGINE. PER DETAIL J. ROUTE THE CABLE (G4) THROUGH THE UPPER GROMMET IN THE FIREWALL AND ATTACH THE SMALLER TERMINAL TO THE RIGHT SIDE GROUNDING NUT PLATE ON THE RADIO RACK PER DETAIL B.
17. ROUTE THE NEGATIVE CABLE FROM THE GROUND POWER RECEPTACLE (P2) AFT ALONG THE LEFT SIDE OF THE FUSELAGE TO THE LEFT BATTERY GROUND (G-) POST. INSTALL (P2) CABLE PER DETAIL A.
18. REMOVE THE LIFTING HOOK AND DISCARD. SAVE THE HARDWARE FOR INSTALLING GROUND CABLES G1, G2, G3, AND G4 PER DETAIL J.
19. CABLE (G1) ATTACHES TO BOTH NEGATIVE BATTERY STUDS PER DETAIL A.
20. THESE CABLES ARE TO BE COVERED WITH CONVULSITED TUBING FROM ENTRY UNDER THE FLOOR TO A MINIMUM OF 4" PAST THE EXIT THROUGH THE BAGGAGE BULKHEAD. (SEE SHEET 6).
21. AFTER ATTACHING GROUND CABLES, TIGHTEN NUTS FORMERLY HOLDING LIFTING HOOK.
22. L1A AND L1B ARE CONNECTED TO THE REAR LEFT STUD OF THE FUSELAGE BLOCK. R1A AND R1B ARE CONNECTED TO THE FORWARD RIGHT STUD OF THE FUSELAGE BLOCK.

Detail 24 - 1 Electrical Power Cable Distribution (6/8)

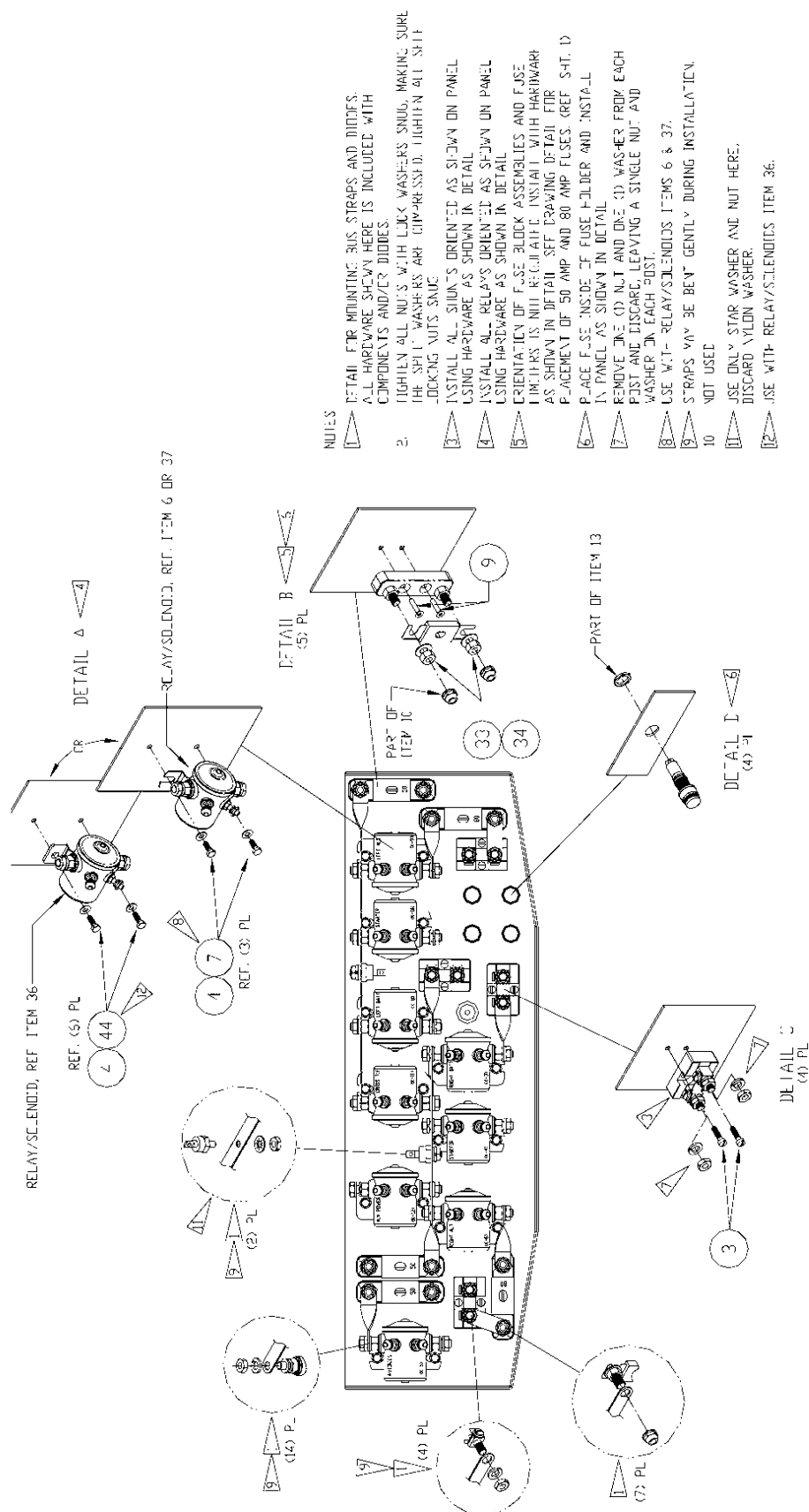


Detail 24 - 1 Electrical Power Cable Distribution (7/8)





Detail 24 - 2 Power Grid Assembly (LC53242000A2) (1/3)



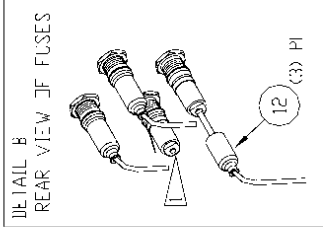
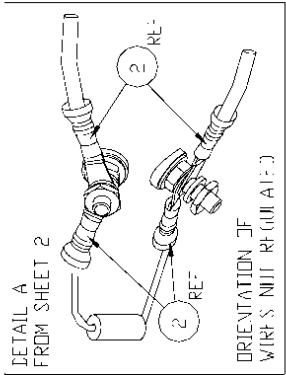
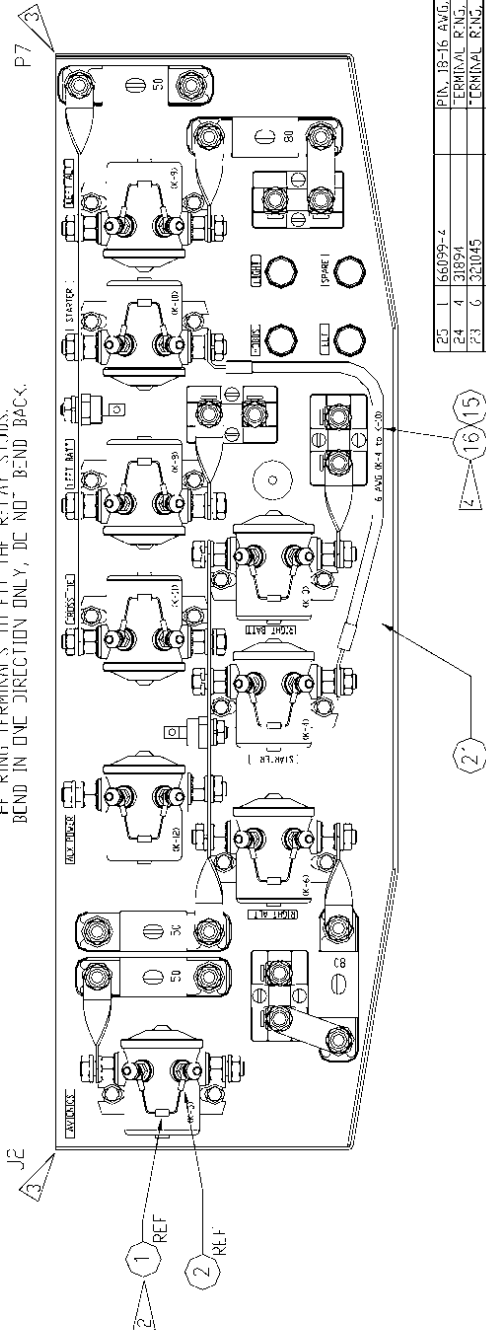
Detail 24 - 2 Power Grid Assembly (2/3)

- NOTES
1. DETAIL FOR MOUNTING BUS STRAPS AND DIODES. ALL HARDWARE SHOWN HERE IS INCLUDED WITH COMPONENTS AND/OR DIODES.
 2. TIGHTEN ALL NUTS WITH LOCK WASHERS SNUG, MAKING SURE THE SPLIT WASHERS ARE COMPRESSED. TIGHTEN ALL SPLIT LOCKING NUTS SNUG.
 3. INSTALL ALL SLUGS ORIENTED AS SHOWN ON PANEL USING HARDWARE AS SHOWN IN DETAIL.
 4. INSTALL ALL RELAYS ORIENTED AS SHOWN ON PANEL USING HARDWARE AS SHOWN IN DETAIL.
 5. ORIENTATION OF FUSE BLOCK ASSEMBLIES AND FUSE LINEUPS IS NOT RELEVANT. INSTALL WITH HARDWARE AS SHOWN IN DETAIL. SEE DRAWING DETAIL FOR PLACEMENT OF 50 AMP AND 80 AMP FUSES. (REF. SHT. D)
 6. PLACE FUSE INSIDE OF FUSE HOLDER AND INSTALL IN PANEL AS SHOWN IN DETAIL.
 7. REMOVE JES (3) NUT AND ONE (1) WASHER FROM EACH POST AND DISCARD, LEAVING A SINGLE NUT AND WASHER ON EACH POST.
 8. USE WITH RELAY/SLENDERS ITEMS 6 & 37.
 9. STRAPS MAY BE BEV' GENTLY DURING INSTALLATION.
 10. NOT USED
 11. USE ONLY STAR WASHER AND NUT HERE, DISCARD NYLON WASHER.
 12. USE WITH RELAY/SLENDERS ITEM 36.

44	12	AN4-5A		BOLT, HEX HEAD, 1/4-28 x 5/8"
43	7	NAS1149FN532P		WASHER, FLAT, 1/4
42	2	NAS1149FN832P		WASHER, FLAT, #8
41	2	MS21043 C8		NUT, SELF-LOCKING, ALL METAL, 8-32
40	2	MS24693C49		SCREW, FLAT HEAD, 8-32 x 7/16
39	2	TPMS S8 C		WIRE TIE BASE, LOW PROFILE, PANDUIT
38	1	MS35489-5		GRUMVLI
37	2	P4047		RELAY/SOLENOID, ON-OFF-REVERSE
36	6	70-906		RELAY/SOLENOID, STANCOR
35	1	MS35489-5		GRUMVLI
34	28	NAS1149F0563P		WASHER (AN960-516)
33	10	AN315-5R		NUT, PLAIN, HEX, 5/16 FINE THREAD
32	1	LA53115C03-4	UR	DECAL, FUSE, SPARE FUSE
31	1	LA53115C03-3		DECAL, FUSE, COUNTERSYNTH
30	1	LA53115C03-2		DECAL, FUSE, HCB3S
29	1	LA53115C03-1		DECAL, FUSE, ELT
28	1	LA53115C01-8		DECAL, RELAY, CROSS TIE
27	1	LA53115C01-7		DECAL, RELAY, AUX POWER
26	1	LA53115C01-6		DECAL, RELAY, RIGHT BATT
25	1	LA53115C01-5		DECAL, RELAY, LEFT BATT
24	1	LA53115C01-4		DECAL, RELAY, RIGHT ALT
23	1	LA53115C01-3		DECAL, RELAY, LEFT ALT
22	2	LA53115C01-2	A	DECAL, RELAY, STARTER
21	1	LA53115C01-1		DECAL, RELAY, AVIONICS
20	3	ANL-50		FUSE LIMITER ASSEMBLY, 50 AMP BUSS
19	2	AN21382A		DIODE, 60 AMP, ANODE TO STUD, DU-5 CASE
18	1	LC53242009	-1	BUS STRAP, LOWER, TURBO POWER GRID ASSEMBLY
17	1	LC53242007	1	BUS STRAP, UPPER, TURBO POWER GRID ASSEMBLY
16	2	LC53242005	-1	BUS STRAP, SHUNT TO FUSE BLOCK, TURBO POWER GRID ASSEMBLY
15	5	LC53242003	-1	BUS STRAP, SHUNT TO RELAY, POWER DISTRIBUTION GRID
14	4	HKP		FUSE HOLDER, SOLDER TERMINAL, BUSS
13	4	AGC3		FUSE, 3 AMP, BUSS
12				NOT USED
11				NOT USED
10	5	76655-1		FUSE BLOCK, LEFT AIR, INC
9	10	MS24693 C274		SCREW, FLAT HEAD, 10-32 x 7/8"
8	2	ANL-80		FUSE LIMITER ASSEMBLY, 80 AMP, BUSS
7	6	AN4-4A		BOLT, HEX HEAD, 1/4-28 x 1/2"
6	1	70-906		RELAY/SOLENOID, ASSEMBLY, STANCOR
5				NOT USED
4	18	NAS1149F0432P		WASHER, (AN960-416)
3	8	AN502-10-12		SCREW, FILLISTER HEAD, 10-32 x 3/4"
2	4	MLA-15C-50		SHUNT ASSEMBLY
1	1	LC53242001	B	PANEL, POWER GRID, TURBO
ITEM	QTY	PART NUMBFR	REV	DESCRIPTION or MATERIAL
PARTS LIST				

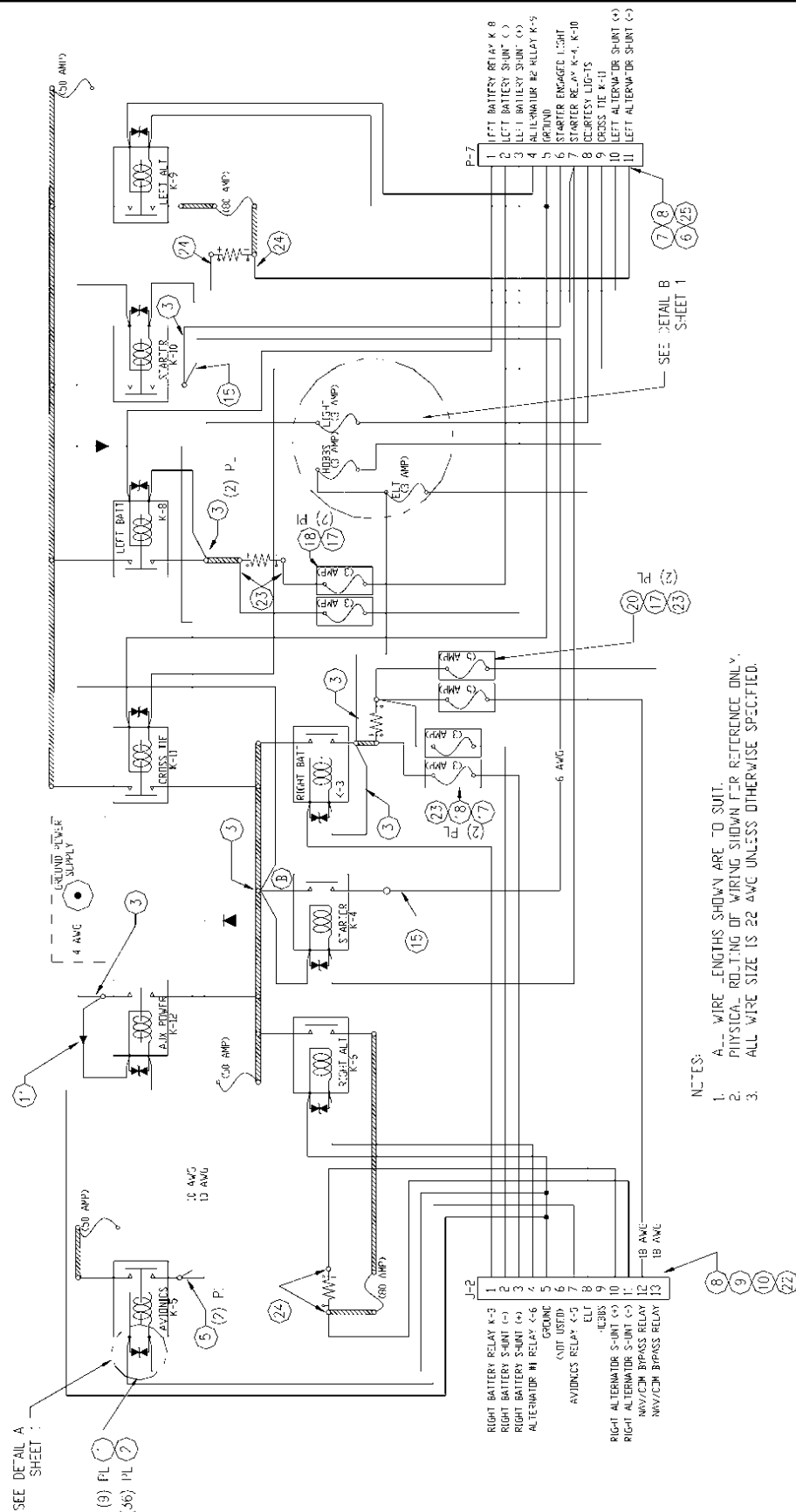
Detail 24 - 2 Power Grid Assembly (3/3)

- 1 THE FUSE HOLDER WITH THE SPARE FUSE DOES NOT REQUIRE A TERMINAL COVER
- 2 APPLY SMALL AMOUNT OF SILICONE ADHESIVE TO DIODE AND SOLIDOID TO HOLD IN PLACE
- 3 LENGTH OF FINISHED HARNESS FROM THIS POINT IS 6" TO 8" INCLUDING CONNECTOR
- 4 ROUTE THE 6 GA. WIRE BETWEEN THE TWO STARTER RELAYS AS SHOWN. IT IS ACCEPTABLE TO GENTLY BEND THE RING TERMINALS TO FIT THE R-TAY STUDS. BEND IN ONE DIRECTION ONLY, DO NOT BEND BACK.



ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL
25	1	166099-4		PIN, 18-16 AWG, AMP
24	4	21894		TERMINAL RING, 22-16 AWG, 1/4 STUD, RED
23	6	22045		TERMINAL RING, 16-14 AWG, 1/4 STUD, BLUE
22	2	66101-4		SOCKET, 16-16 AWG, AMP
21	1	LC5324200	A	POWER GRID ASSEMBLY, TURBO
20	2	4605		OSC, 5 AMP, BUSS
19				NOT USED
18	8	4603		FUSE, 3 AMP, BUSS
17	6	155100		FUSEHOLDER, 18-16 AWG, 1/4 STUD, JKS, UNIVERSAL
16	1	M22759/16-6-9		WIRE, ELEC, RED, WT. 600 V., 6 GA., WHITE
15	2	RE10721		TERMINAL RING, 6 GA, 5/16" STUD, BLUE, T88
14	2	M22759/16-11-9		WIRE, ELEC, RED, WT. 600 V., 11 GA., WHITE
13	3	M22759/16-22-9		WIRE, ELEC, RED, WT. 600 V., 22 GA., WHITE
12	3	M520		TERMINAL COVER, FUSE, ARCOL-CT13
11	1	G751		DIODE, 60 AMP
10	10	66105-4		SOCKET, 24-20 AWG
9	1	206037-1		PLUG, 17-6 PIN, SIZE 11 CPC
8	2	206076-1		BACKSHIELD, 1/4", 1/4"
7	1	206036-3		RECEPTACLE, 17-6 PIN, CPC, FREE HANGING
6	3	66103-4		PIN, 24-20 AWG
5	2	3511		TERMINAL RING, 12-10 AWG, 5/16 STUD, YELLOW
4	AR	81475		ADHESIVE, SILICONE, RTV
3	4	31895		TERMINAL RING, 22-16 AWG, 5/16 STUD, RED
2	36	36154		TERMINAL RING, 22-16 AWG, #10 STUD, RED
1	9	PK627CA		TRANSIENT VOLTAGE SUPPRESSION (TVS) DIODE, 600 W, 31-DIRECTIONAL
				PAR'S LIST

Detail 24 - 3 Power Grid Wiring (LC53512000B1) (1/2)



Detail 24 - 3 Power Grid Wiring (2/2)

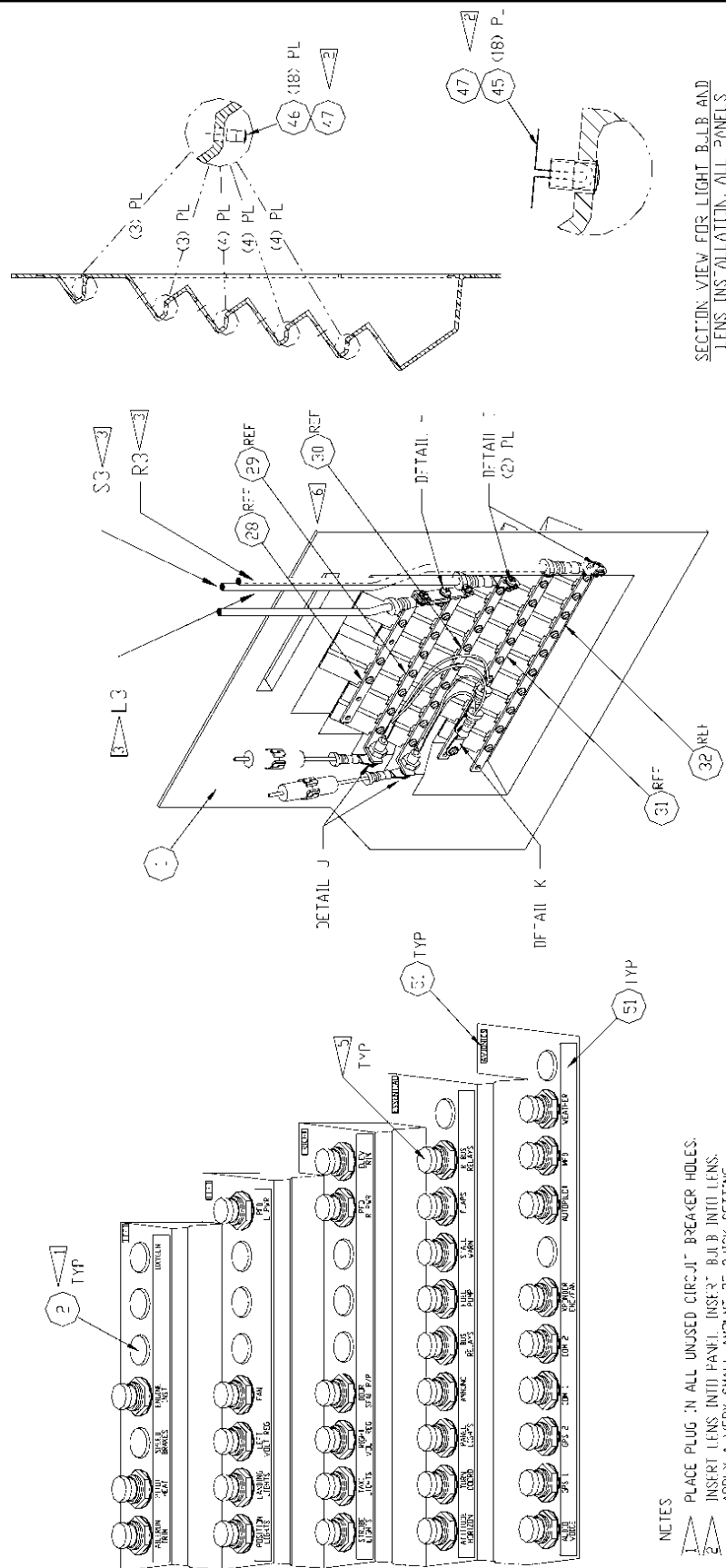
NOTE

1 USE DETERMINE PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.

2 THIS CIRCUIT BREAKER INSTALLATION IS USED ONLY IF THE SPEED BRAKE OPTION IS INSTALLED SEE NOTE 1.

54	2	36150		TERMINAL RING, 16-14 AWG, #10 STUD, BLUE, AMP
53	3	31886		TERMINAL, RING, 22-16 ga., #8 STUD, RED, AMP
52	1	320360		TERMINAL, RING, 16-14 ga., #8 STUD, BLUE, AMP
51	1	LC5314015	-	DECAIS, CIRCUIT BREAKER PANEL, 40C
50	1	B5334509	-	CIRCUIT BREAKER INSTALLATION, SPEED BRAKES
49	40	Y22759/15-8-9		WIRE, ELECTRIC, MED. WT., 600 V, 8 ga., WHITE
48	2	DS50-6C-P8-1		SURGE SUPPRESSOR, LOW VOLTAGE, UNI-POLAR
47	AR	CP110		ADHESIVE, NON STRUCTURAL, LOCTITE
46	18	92F3278		LENS CAP, LED, CLEAR (SVC 170 CTP)
45	18	683		LAMP
44	2	YS21042L3		NUT, SELF LOCKING, LOW HEIGHT, #10
43	4	AS1149FC363P		WASHER (AN960-10)
42	4	AN526C63PR6		SCREW, TRUSS HEAD, #6 x 3/8"
41	6	AS1149FV632P		WASHER (AN960-6)
40	4	YS21042L3		NUT, SELF LOCKING, LOW HEIGHT, #6
39				NOT USED
38	3	AN526C832RB		SCREW, TRUSS HEAD #8 x 1/2"
37	6	AS1149FV832P		WASHER (AN960-8)
36	3	YS21042L3		NUT, SELF LOCKING, LOW HEIGHT, #8
35	2	AGC3		FUSE, 3 AMP, BUSS
34	2	55100U		FUSEHOLDER, IN-LINE, TWIST-LOCK, UNIVERSAL
33	1	AS3514C31	-1	BUS BAR, CIRCUIT BREAKER, JUMPER
32	1	AS3514C29	-2	BUS BAR, CIRCUIT BREAKER, ROW 5
31	1	AS3514C27	-1	BUS BAR, CIRCUIT BREAKER, ROW 4, ALL ELECTRIC
30	1	AS3514C25	-1	BUS BAR, CIRCUIT BREAKER, ROW 3
29	1	AS3514C23	-1	BUS BAR, CIRCUIT BREAKER, ROW 2
28	1	AS3514C01	-1	BUS BAR, CIRCUIT BREAKER, ROW 1, ALL ELECTRIC
27	3	RD10161		TERMINAL, RING, 8 ga., #8 STUD, THOMAS & BETTS
26	AR	Y22759/15-22-9		WIRE, ELEC, MED. WT., 600 V, 22 ga., WHITE
25	AR	Y22759/15-20-9		WIRE, ELEC, MED. WT., 600 V, 20 ga., WHITE
24	AR	Y22759/15-18-9		WIRE, ELEC, MED. WT., 600 V, 18 ga., WHITE
23	AR	Y22759/15-16-9		WIRE, ELEC, MED. WT., 600 V, 16 ga., WHITE
22	AR	Y22759/15-14-9		WIRE, ELEC, MED. WT., 600 V, 14 ga., WHITE
21	2	25FR60		DIODE, DO4 CASE, ANODE TO STUD, 25A, 600V, C&H TECHNOLOGY
20	2	704-15K36T		TRANSIENT VOLTAGE SUPPRESSOR, PROTEK DEVICES
19	1	2063C3-2		RECEPTACLE, 23 37 REVERSE SEX, FREE HANGING, AMP
18	2	36154		TERMINAL RING, 22-16 AWG, #10 STUD, RED, AMP
17	3	66360-4		SOCKET, 18-24, BRASS, AMP
16	13	66131-4		SOCKET, 18-16, AWG, AMP
15	30	66135-4		SOCKET, 24-20, AWG, AMP
14	2	206138-1		BACKSHELL SIZE 23, CPC,AMP
13	1	206070 1		BACKSHELL SIZE 17, CPC,AMP
12	1	206037-1		PLUG, 17-16 PIN, CPC,AMP
11	1	206837-1		PLUG, 23-24 PIN, CPC,AMP
10	10	36158		TERMINAL RING, 16-14 AWG, #6 STUD, BLUE, AMP
9	23	36152		TERMINAL RING, 22-16 AWG, #6 STUD, RED, AMP
8	10	7277-2-10		CIRCUIT BREAKER, 10 AMP, KLIXON
7	2	7277-2-7.5		CIRCUIT BREAKER, 7.5 AMP, KLIXON
6	12	7277-2-5		CIRCUIT BREAKER, 5 AMP, KLIXON
5	2	7277-2-4		CIRCUIT BREAKER, 4 AMP, KLIXON
4	4	7277-2-3		CIRCUIT BREAKER, 3 AMP, KLIXON
3	2	7277-2-1		CIRCUIT BREAKER, 1 AMP, KLIXON
2	13	CP-437		PLUG, HEYCO DOME, 7/16", HEYCO
1	1	AS3514C18	1	PANEL, CIRCUIT BREAKER, DUAL BUS
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL PARTS LIST

Detail 24 - 4 Circuit Breaker Panel Wiring (LC53514000A4) (1/4)



SECTION VIEW FOR LIGHT BULB AND LENS INSTALLATION, ALL PANELS

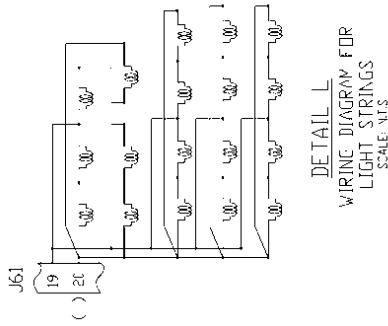
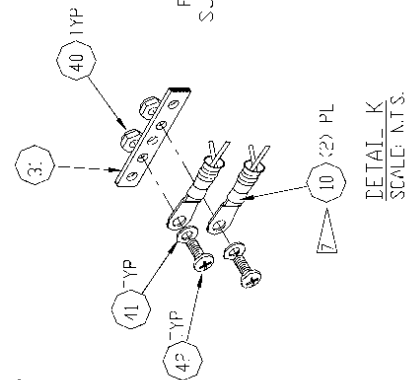
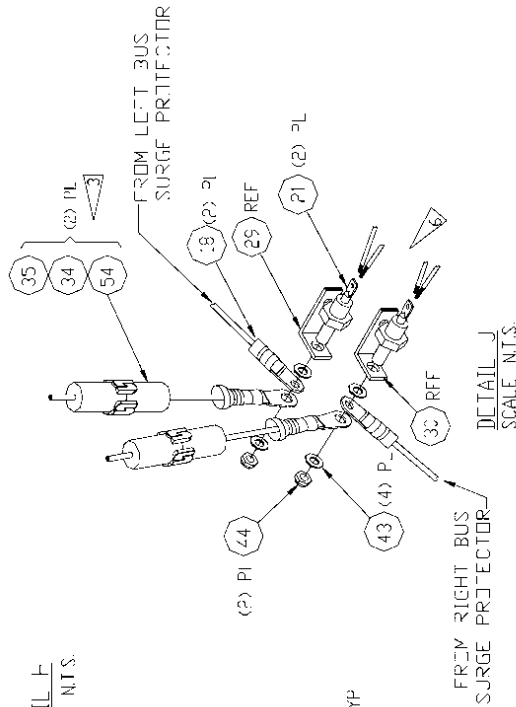
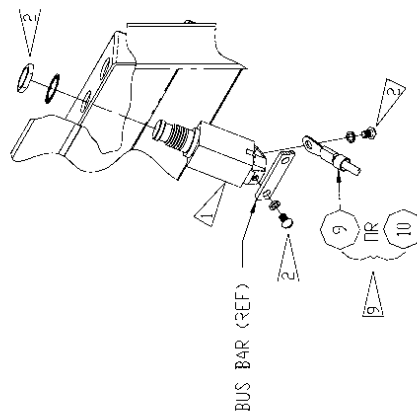
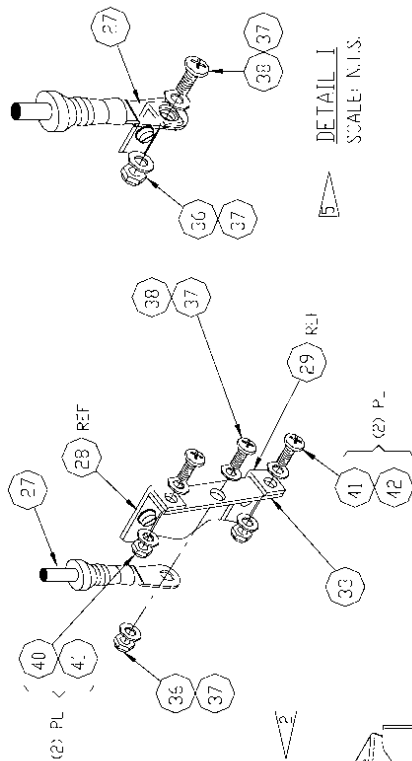
NOTES

1. PLACE PLUG IN ALL UNUSED CIRCUIT BREAKER HOLES.
2. INSERT LENS INTO PANEL, INSERT BULB INTO LENS. APPLY A VERY SMALL AMOUNT OF QUICK SETTING ADHESIVE TO HOLD LENS AND BULB IN PLACE. CONNECT WIRING AS SHOWN ON SHEET 3, DETAIL --
3. L3 & S3 CABLE LENGTH IS 120"; R3 CABLE LENGTH 280"; AFTER ATTACHMENT HERE, LABEL UNTERMINATED ENDS. CUT AND SECURE WITH A WIRE TIE.
4. TERMINATION WILL BE COMPLETED IN A LATER ASSEMBLY. SLIDE 2 LAYERS OF HEAT SH-RINK MATERIAL OVER UNUSED COPPER, IF ANY, AFTER INSTALLING ALL CIRCUIT BREAKER FOR CIRCUIT BREAKER SIZES AND LOCATIONS, REFER TO THE SCHEMATIC DIAGRAM ON SHEET 4.
5. FINISH THE WIRE HARNESS. ENG-45, CONNECT TO PIN "A" OF 15", 16-63 = 13", 16-63 = 11".
- 6.

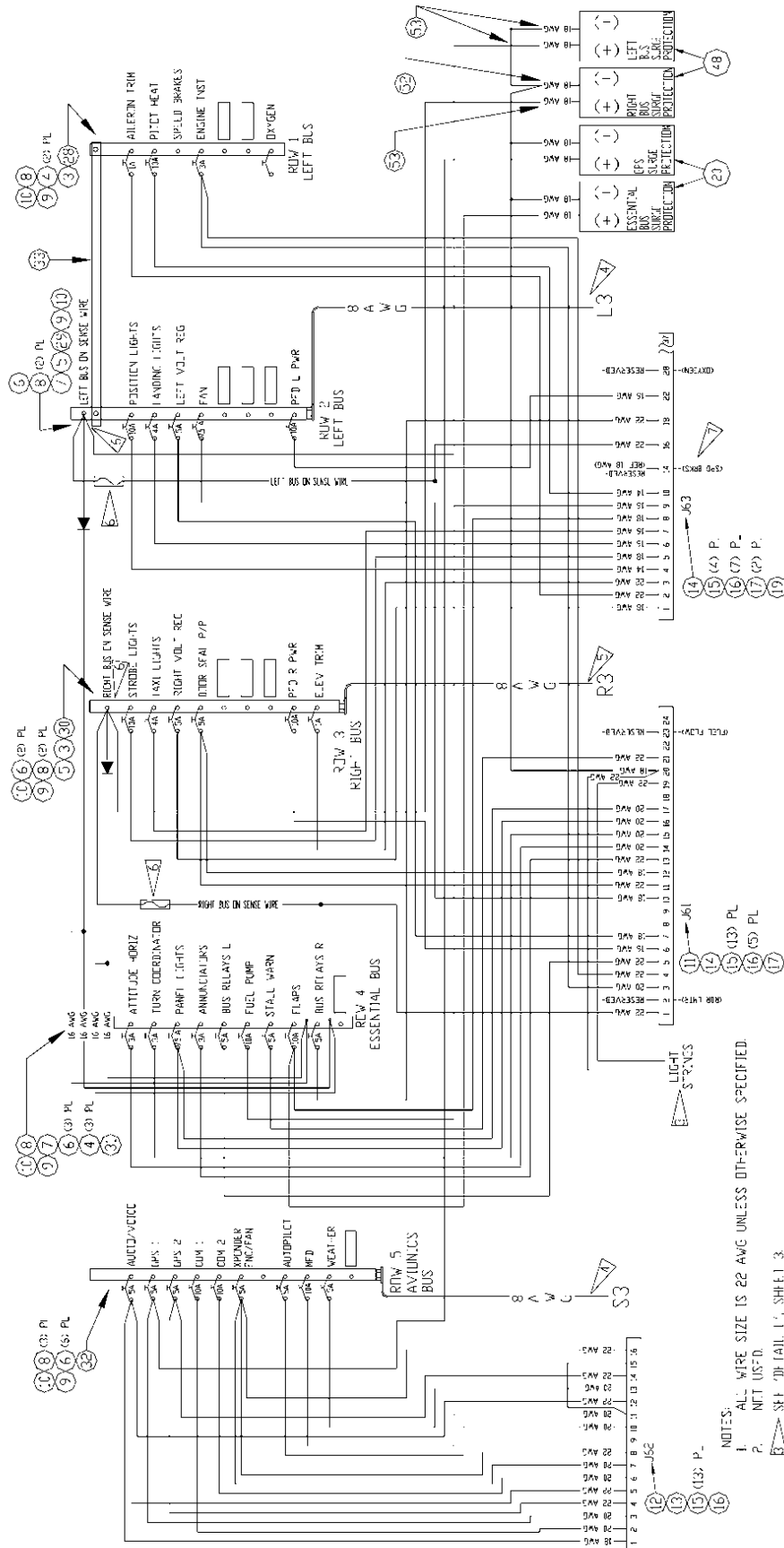
Detail 24 - 4 Circuit Breaker Panel Wiring (2/4)

NOTES:

1. Klixon circuit breakers include #6 washer and screw for attaching terminal ring and bus bar, and the face nut and washer for mounting breaker into the panel. Discard the square washer.
2. Torque #6 nut to 1/4 turn.
3. Attach fuseholder to terminal ring and assemble to diode and bus bar as shown. Discard mounting hardware included with the diodes. The fuseholders into wire bundle after all connections have been made.
4. Torque #6 hardware to 1/2 in-lb.
5. Torque #8 hardware to 1/2 in-lb.
6. Strip wires and solder to end of diode. Cover with heat shrink tubing when done.
7. Trim wires to suit and crimp ring terminal to ends.
8. Not used.
9. Ring terminal is secured to wire as shown. Wire is then terminated per schematic on sheet 4.



Detail 24 - 4 Circuit Breaker Panel Wiring (3/4)

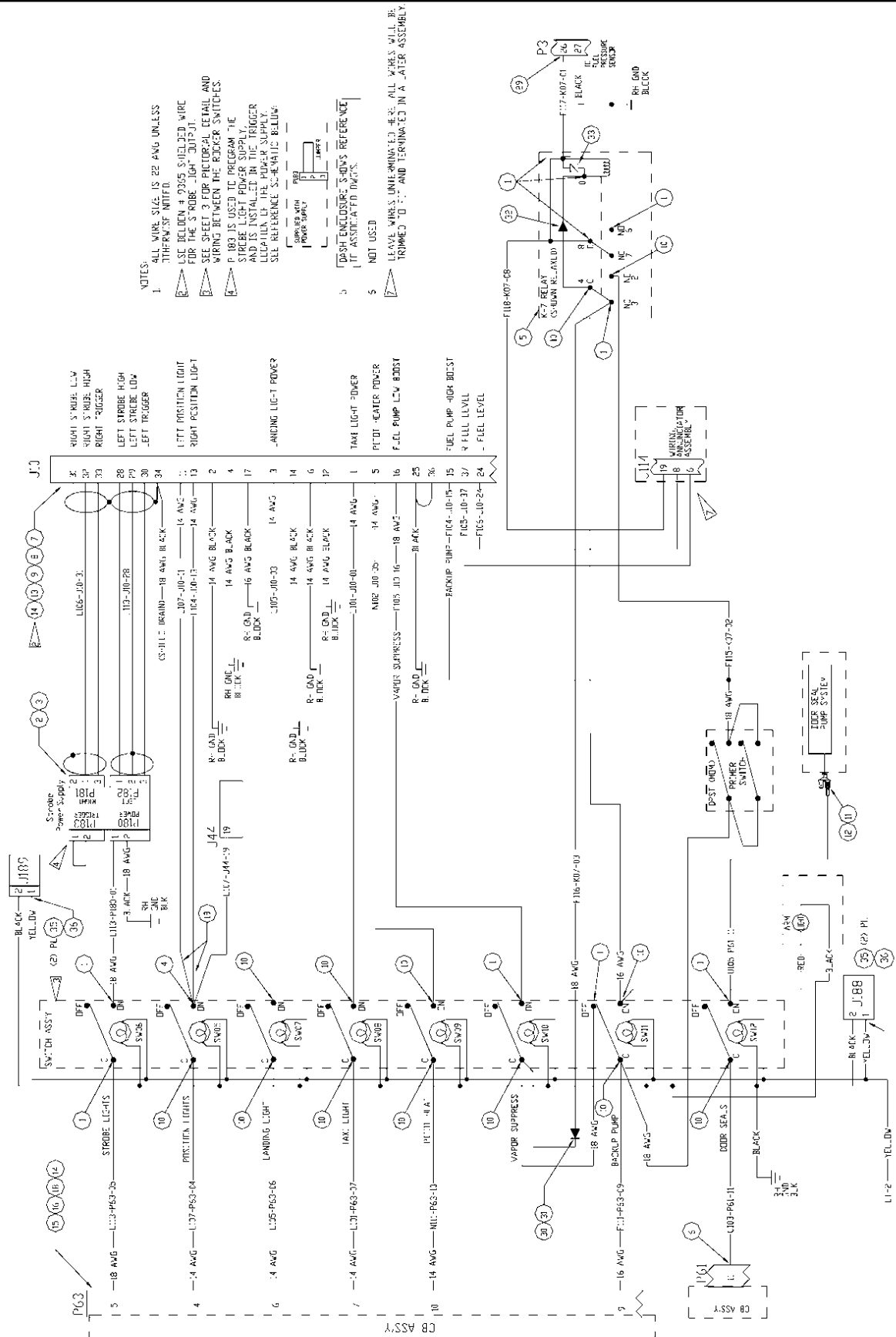


Detail 24 - 4 Circuit Breaker Panel Wiring (4/4)

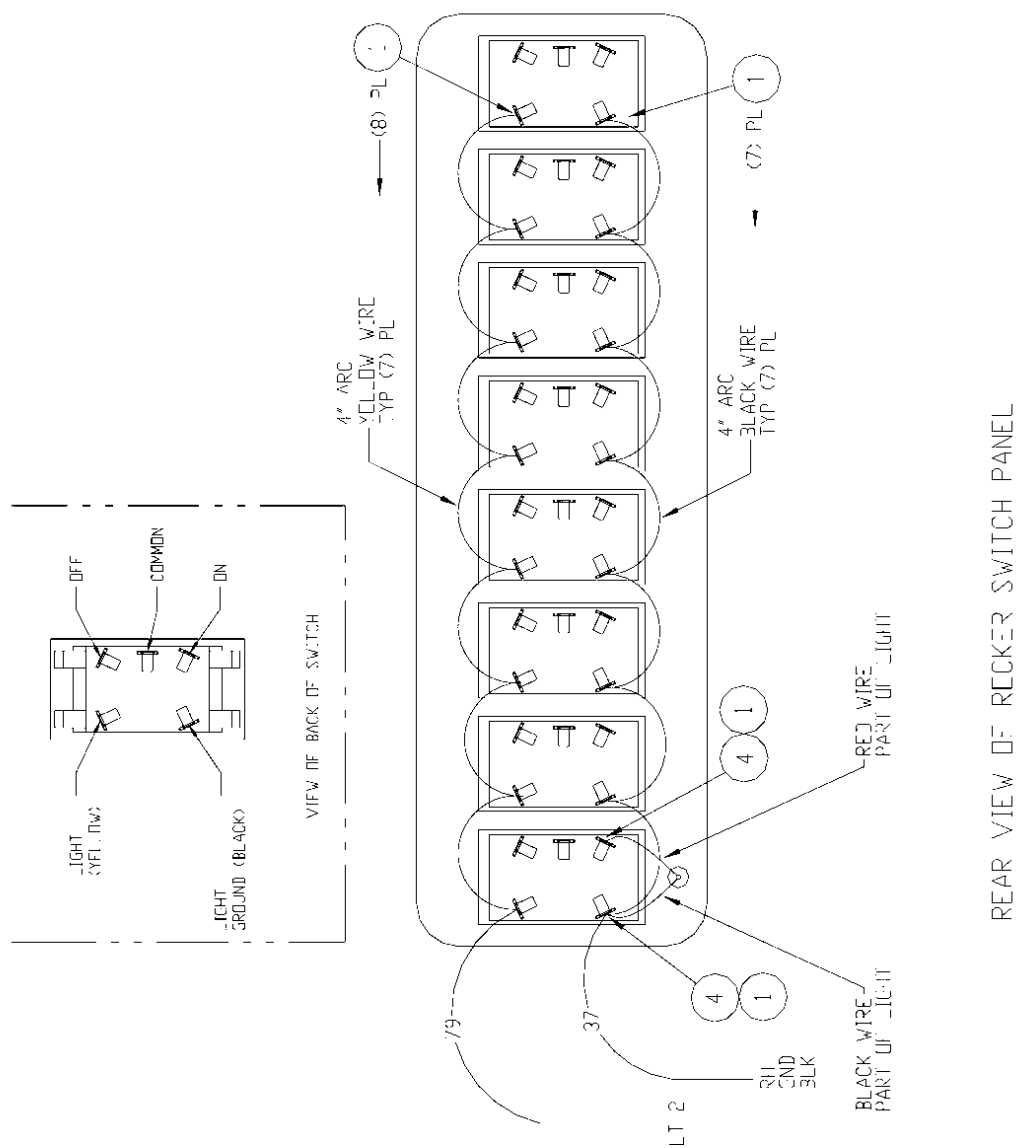
36	2	770342-1		RECEPTACLE, 2-PIN FREE HANGING, AMP
35	4	794016-1		SOCKET, 24-18 AWG, AMP
34	3	M22759/15-18-C		WIRE, ELEC., MED. WT., 600 V, 18 ga., BLACK
33	1	V227A05		DIODE (METAL OXIDE VARISTOR)
32	1	1N4002		DIODE
31	1	1N1200A		DIODE
30	1	4/29		DIODE MOUNTING KIT, KEYSTONE
29	2	205089-1		PIN, 24-20 AWG Size 20, AMP
28	17	9365 (BE-DEN)		CABLE, 300 V, 1 TRIAD, 18 AWG, (BLK, RED, WHT)
27	44	M22759/15-22-9		WIRE, ELEC., MED. WT., 600 V, 22 ga., WHITE
26	9	M22759/15-22-4		WIRE, ELEC., MED. WT., 600 V, 22 ga., YELLOW
25	20	M22759/15-22-C		WIRE, ELEC., MED. WT., 600 V, 22 ga., BLACK
24	33	M22759/15-18-9		WIRE, ELEC., MED. WT., 600 V, 18 ga., WHITE
23	10	M22759/15-16-9		WIRE, ELEC., MED. WT., 600 V, 16 ga., WHITE
22	6	M22759/16-16-0		WIRE, ELEC., MED. WT., 600 V, 16 ga., BLACK
21	18	M22759/15-14-9		WIRE, ELEC., MED. WT., 600 V, 14 ga., WHITE
20	36	M22759/16-14-0		WIRE, ELEC., MED. WT., 600 V, 14 ga., BLACK
19	2	42844-1		RECEPTACLE, 250 CRYSTAL 14-12, AMP
18	1	206305-1		CONNECTOR, CPC, SIZE 23-3/ PIN, REVERSE SEX, AMP
17				NOT USED
16	4	66361-4		PIN 18-14 AWG, AMP
15	2	66099-4		PIN 18-16 AWG, AMP
14	2	206138-1		BACKSHIELD SIZE P3 CPC, AMP
13	1	206150-1		PLUG, 37 PIN CPC SIZE P3, AMP
12	1	640917-1		RECEPTACLE 37 RED, AMP
11	1	61345-2		ADAPTER, .187 x .020, FASTON
10	13	640905-1		RECEPTACLE, 250 BLUE 16-14, AMP
9	2	66101-4		SOCKET 18-16 AWG, AMP
8	11	66360-4		SOCKET 18-14 AWG, AMP
7	11	66105-4		SOCKET 24-20 AWG, AMP
6	1	66103-4		PIN 24-20 AWG, AMP
5	1	WS2S11D22-12		RELAY, MAGNECRAFT
4	3	19043-0010 61/65-1		TAB ADAPTER (2M/F), (ETC/MOLEX, WALDOM ELECTRONICS), ALLIED TAB ADAPTER 250, DUAL QUICK CONNECT, AMP
3	8	60620-1		PIN 20-14 AWG, AMP
2	3	1-480305-0		PIN HOUSING, 3 PIN, AMP
1	27	640903-1		RECEPTACLE, 250 RED 22-18 AWG, AMP
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL PARTS LIST

NLIL

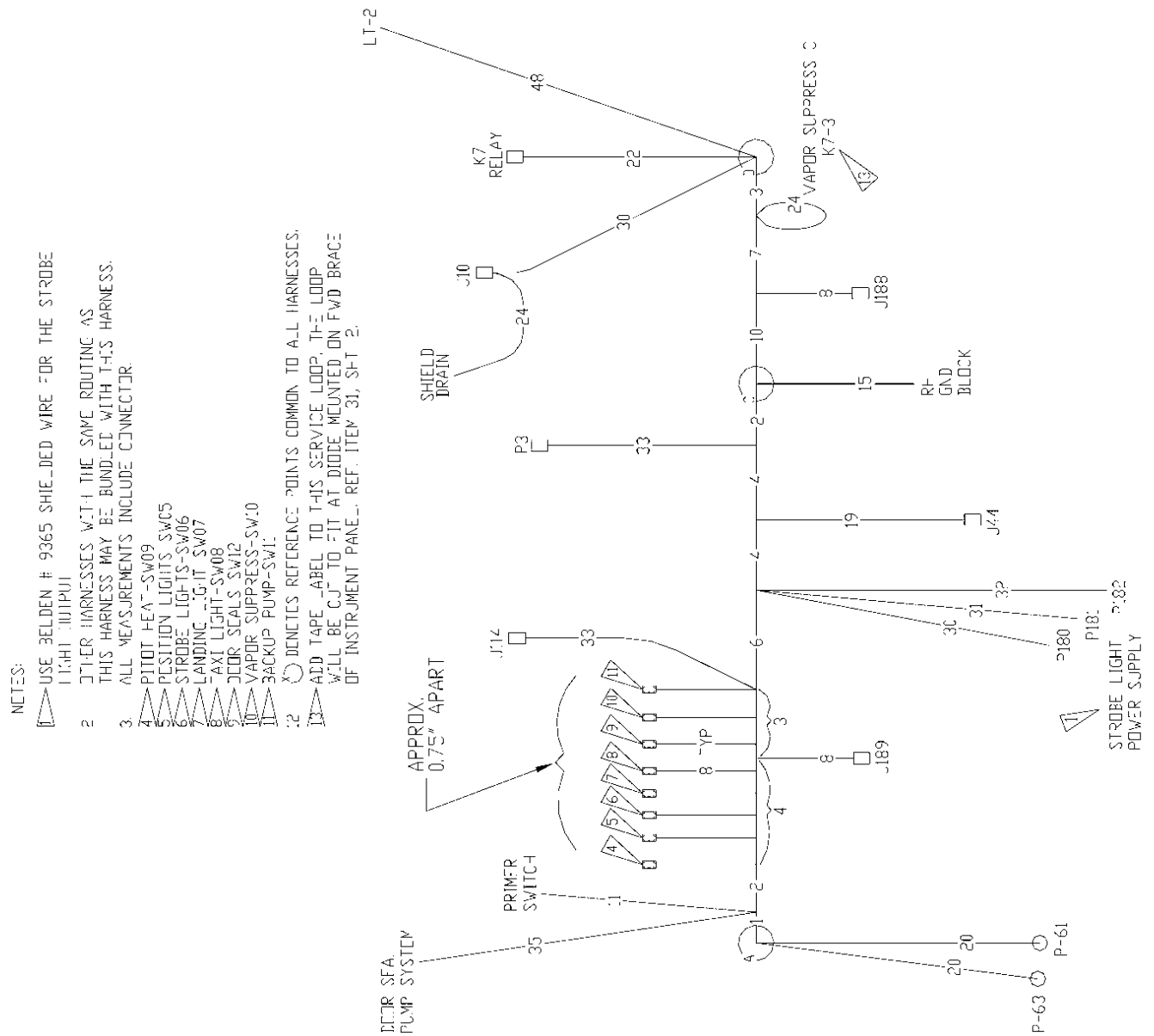
 P/N 19043-0010 IS THE PREFERRED PART.
Detail 24 - 5 Wiring to Rocker Switches(LB53511201H) (1/4)



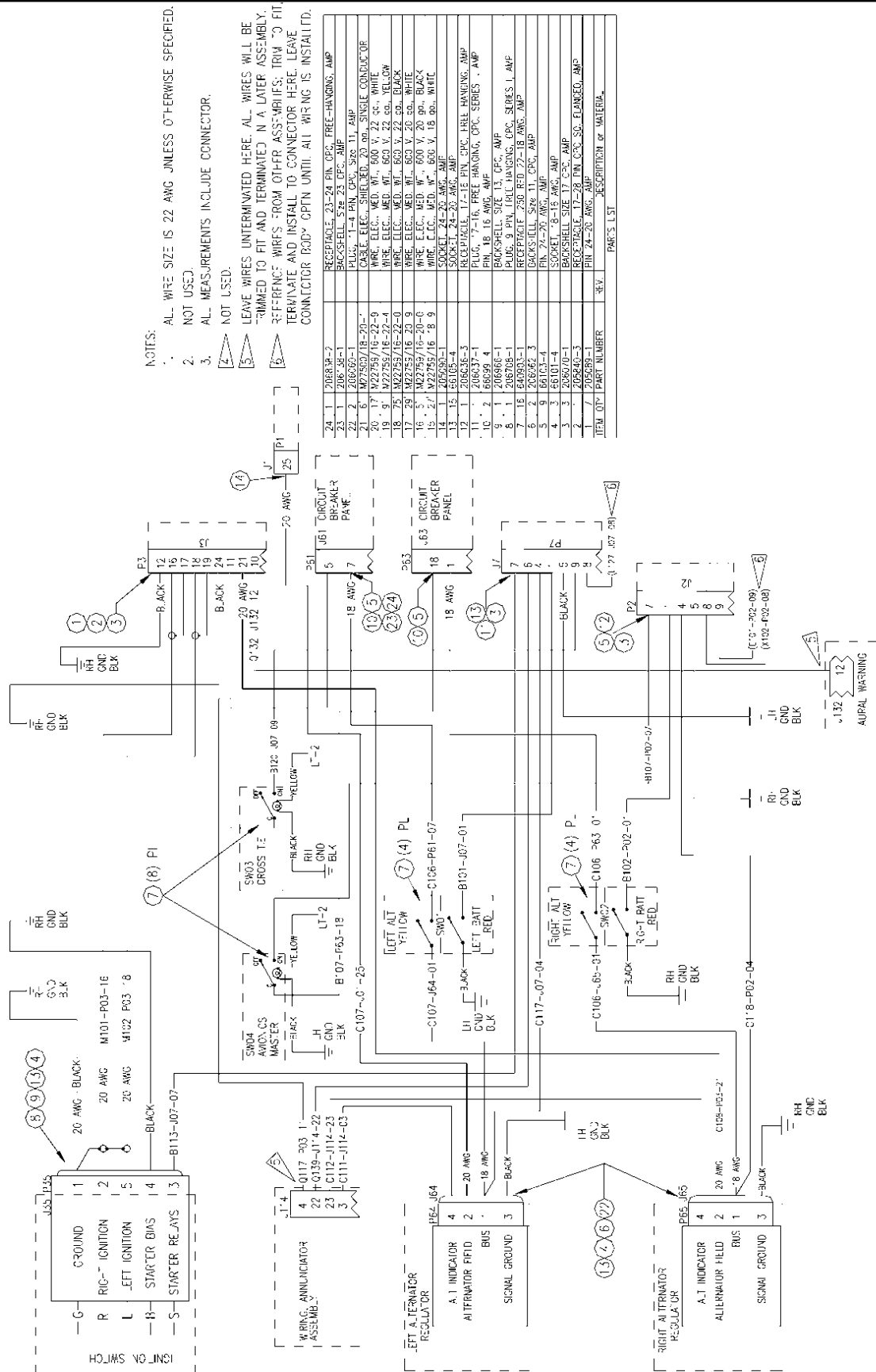
Detail 24 – 5 Wiring to Rocker Switches (2/4)



Detail 24 – 5 Wiring to Rocker Switches (3/4)

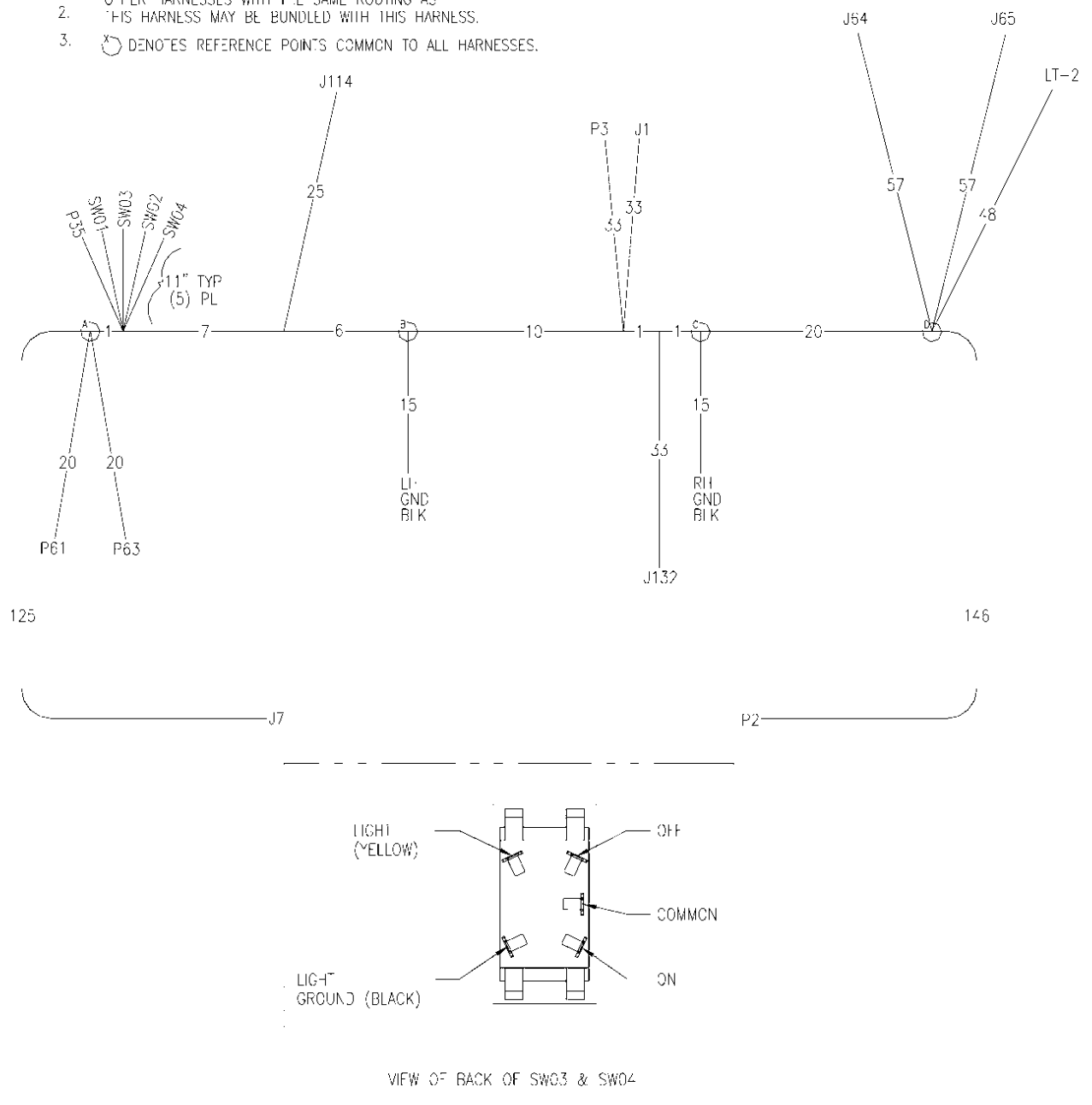


Detail 24 – 5 Wiring to Rocker Switches (4/4)

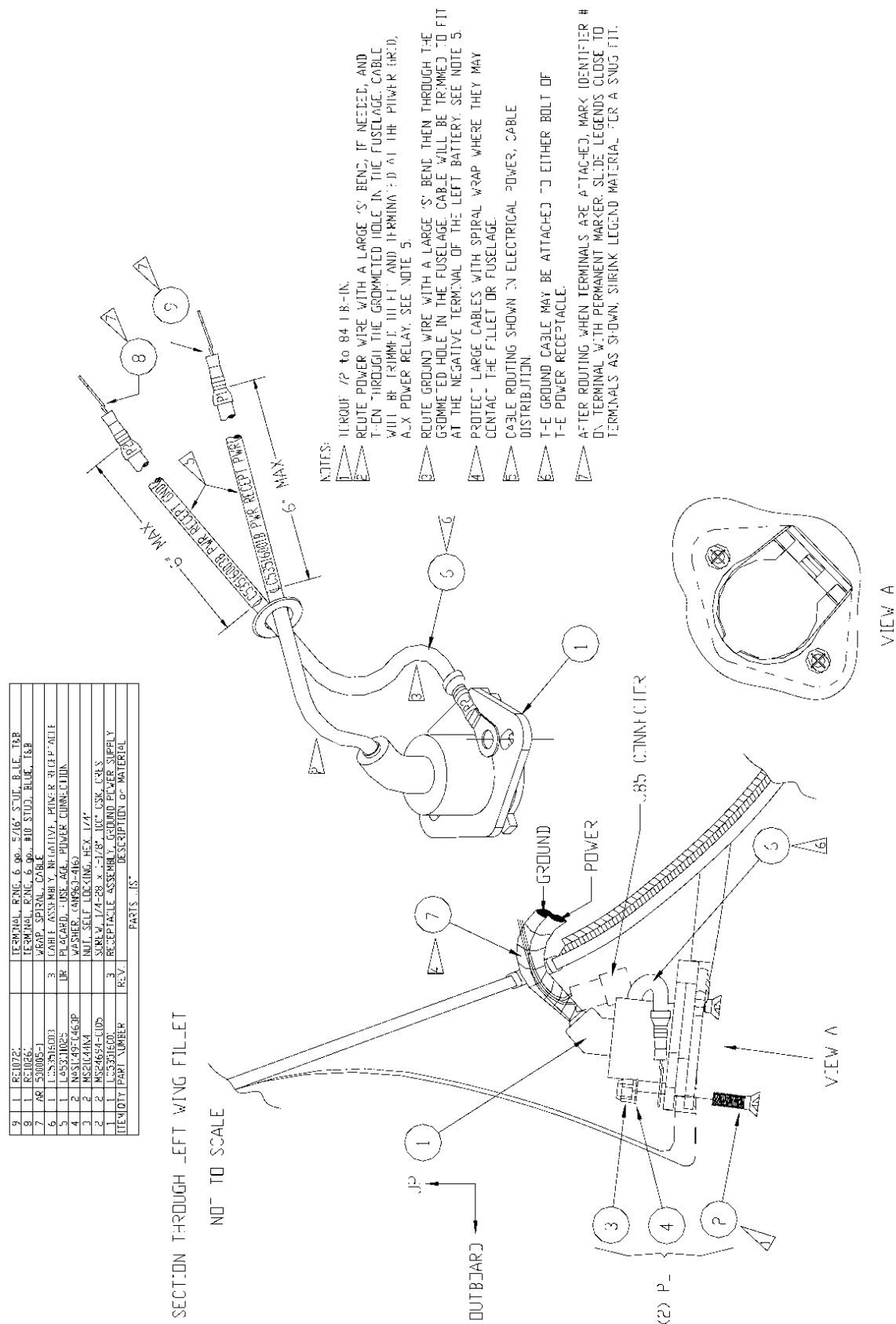


NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. OTHER HARNESSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED WITH THIS HARNESS.
3. ○ DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES.

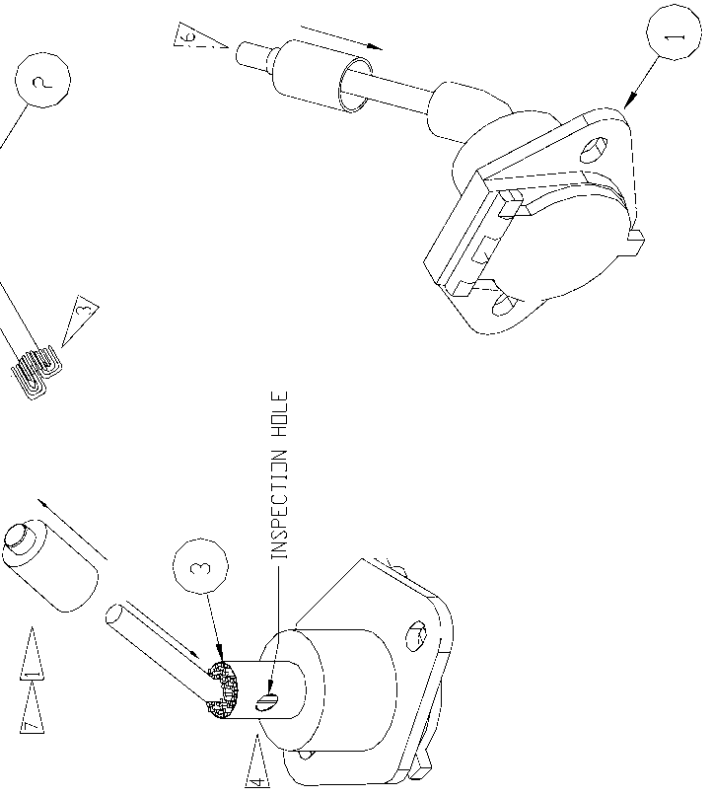
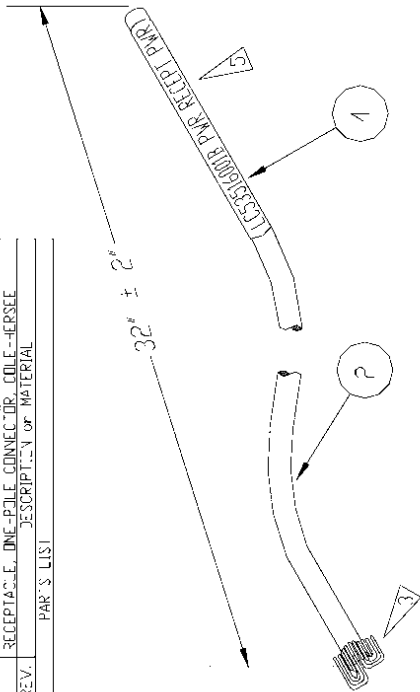


Detail 24 - 6 Master Switch Assembly Wiring (2/2)



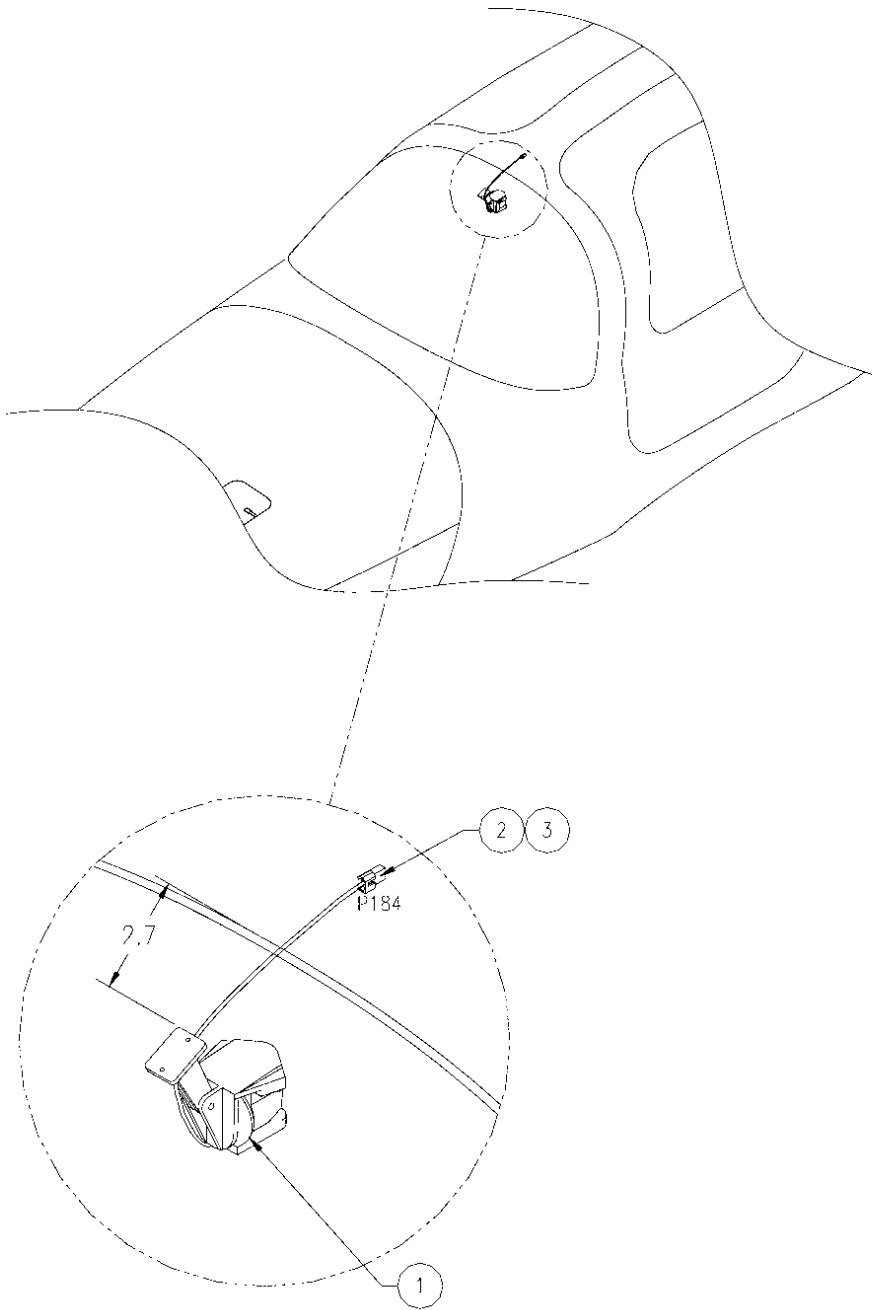
Detail 24 - 7 Ground Power Supply System (LC53516000A1) (1/1)

5	AR	HIX 1	HEAT SHRINK, 1"
4	AR	243-221	SHRINK TUBE, CARTRIDGE, 1/4", YELLOW
		243-220	SHRINK TUBE, CARTRIDGE, 1/4", WHITE
		HIX-1/4	HEAT SHRINK, 1/4"
3	AR	24-6040-0066	SOLDER, E-SIN CORE, 60/30 SNO, RESIST
2	3"	M22759/G 6 9	WIRE, ELEC., MED. WT., 60 V, 6 GA., WHITE
1	1	1041	RECEPTACLE, ONE-POLE CONNECTOR COLE-HERSEE
ITEM QUANTITY		PAR. NUMBER	REV. DESCRIPTION OF MATERIAL
		PAR. 3 LIST	



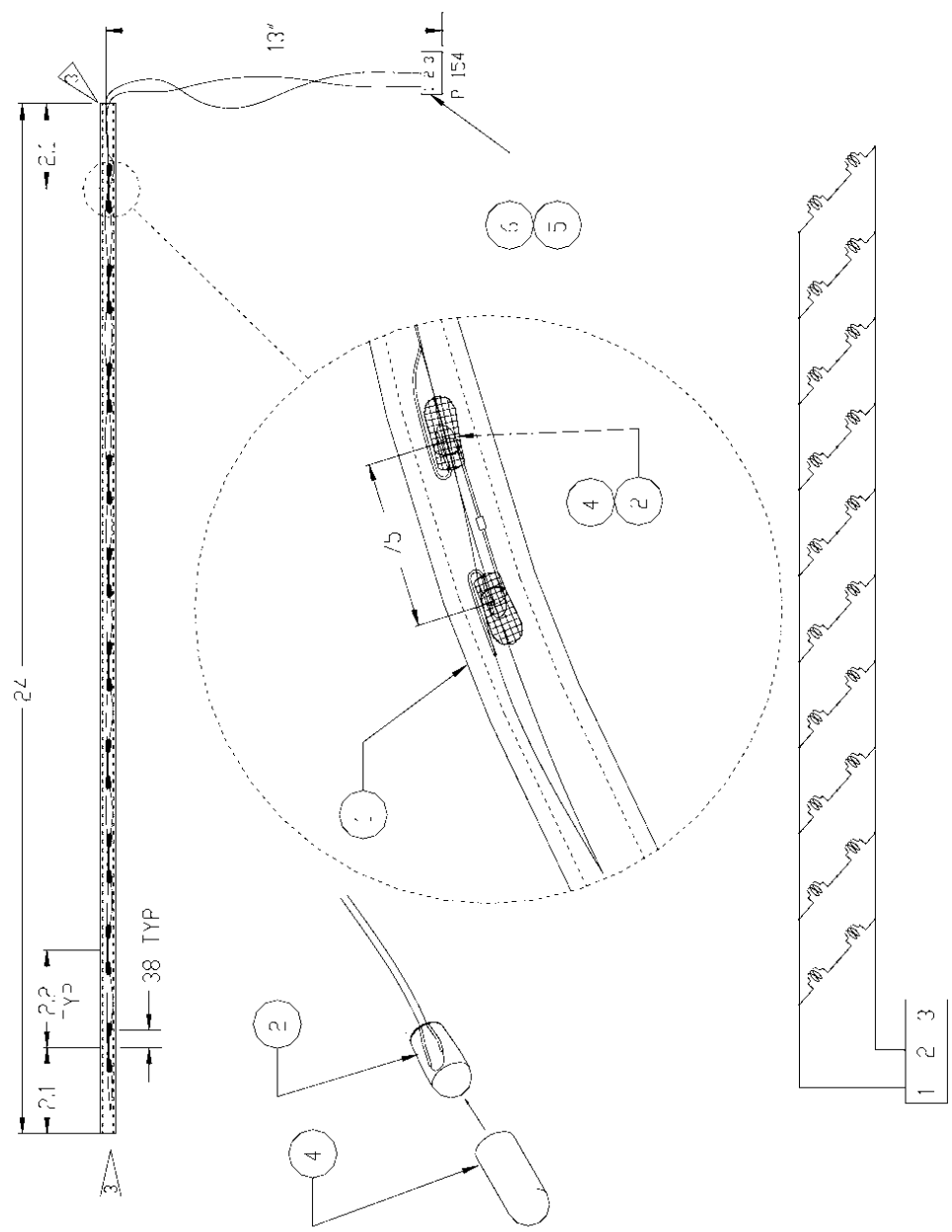
- NOTES:
1. SLIDE RUBBER BOOT OFF OF SOLDER SOCKET IN REAR OF PLUG BEFORE SOLDERING. AFTER WIRE CONNECTIONS ARE MADE SLIDE BOOT OVER SOCKET, SNUG AGAINST REAR OF PLUG
 2. NOT USED.
 3. STRIP THE WIRE LONG ENOUGH TO DOUBLE BACK ITSELF AND FULLY INSERT INTO THE SOLDER SOCKET. BEND THE WIRE AT THE TOP OF THE SOLDER SOCKET (60° to 90°) BEFORE SOLDERING.
 4. SOLDER WITH HEAVY GAGE SOLDER AND A PROPANE TORCH UNTIL THE INSPECTION HOLE SHOWS GOOD SOLDER FLOW.
 5. IDENTIFY CABLE AT THIS END AS SHOWN USING HEAT SHRINK MATERIAL, MACHINE OR HAND LABELING IS ACCEPTABLE. AFTER CRIMPING, MARK IDENTIFIER NUMBER IN TERMINALS WITH PERMANENT MARKER.
 6. THE END OF WIRE WILL TERMINATE AFTER THE PART IS INSTALLED IN THE AIRCRAFT.
 7. IT IS ACCEPTABLE TO USE 2 LAYERS OF 1" HEAT SHRINK MATERIAL IN PLACE OF RUBBER BOOT.
 8. IF LEGEND NEEDS REPLACEMENT A FLAG TIE IS AN ACCEPTABLE SUBSTITUTE IN A FINISHED CABLE.

Detail 24 - 8 Ground Power Supply System Receptacle Assembly (LC53516001B) (1/1)



3	2	794017-	PIN, 24-18 AWG, AMP	
2	1	776340-	PLUG HOUSING, 2-PIN FREE HANGING, AMP	
1	1	NV20-12V	COMPASS, WINDSHIELD MOUNT	
ITEM		QTY	PAR# NUMBER	DESCRIPTION or MATERIAL
				PARTS LIST

Detail 25 - 1 Compass Attachment (LB53255400-2) (1/1)



NOTES

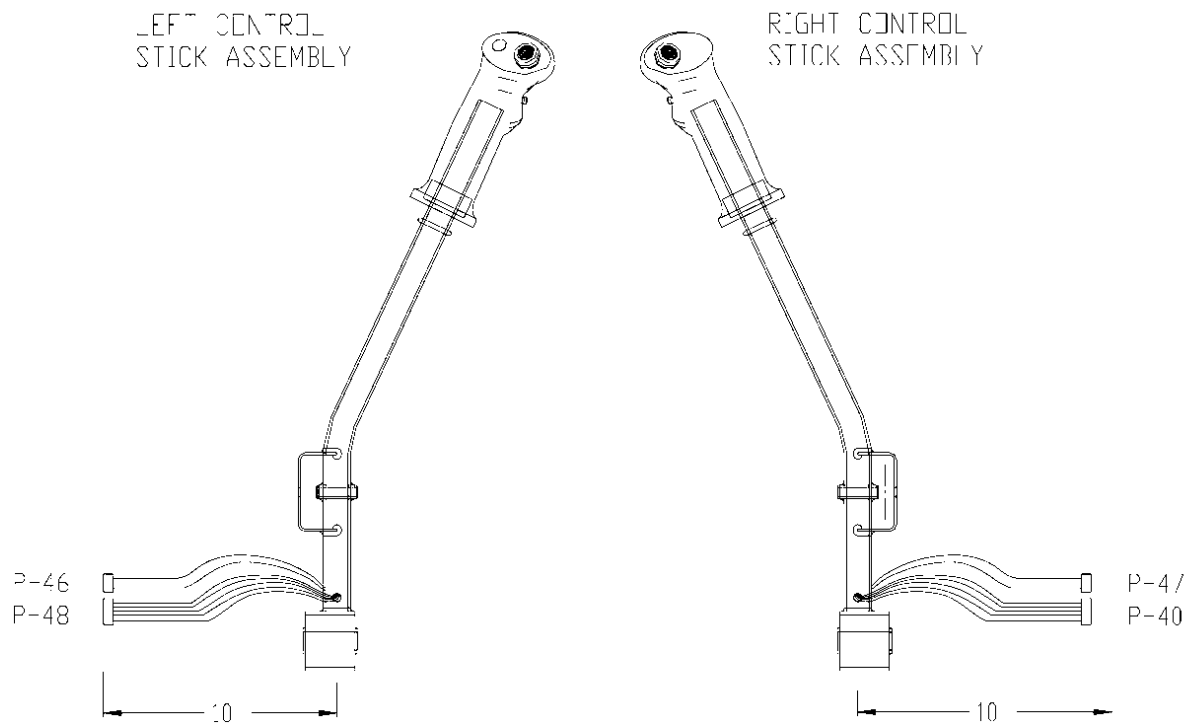
1. TOLERANCE ON ALL DIMENSIONS EXCEPT WIRE LENGTH IS ± .25".

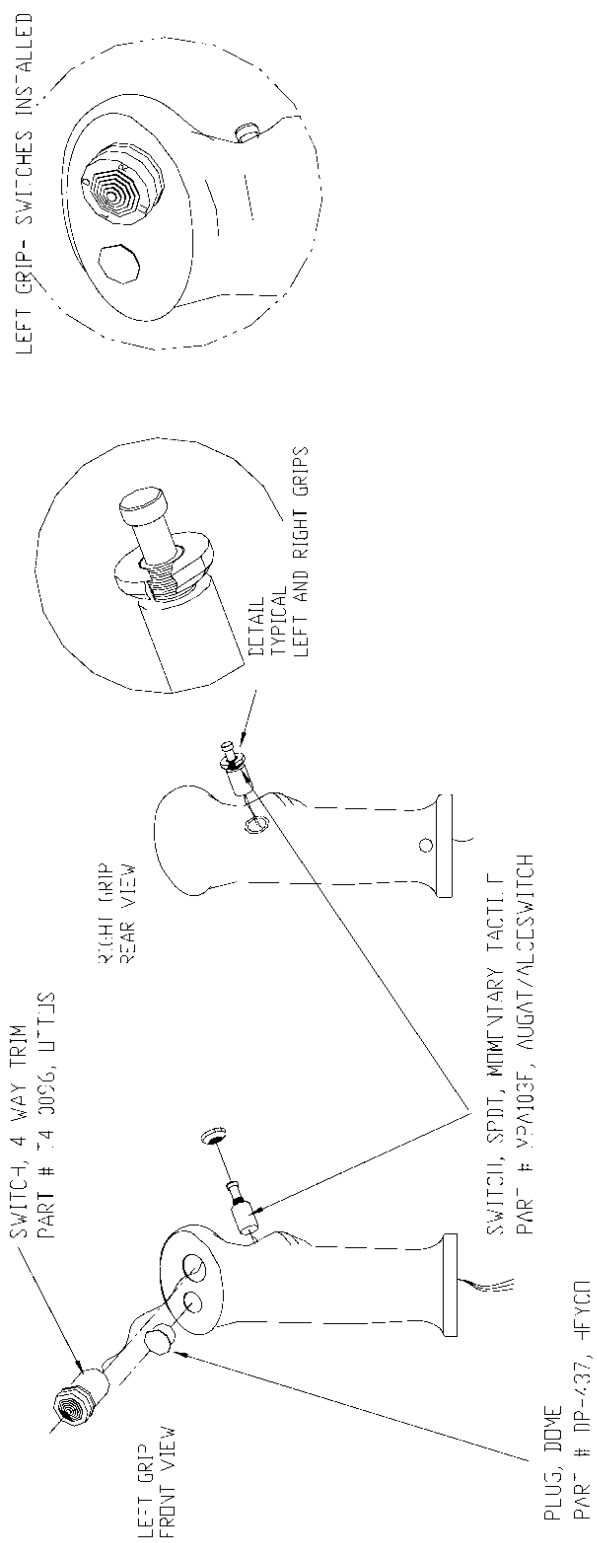
2. ALL WIRE LENGTHS INCLUDE CONNECTOR.

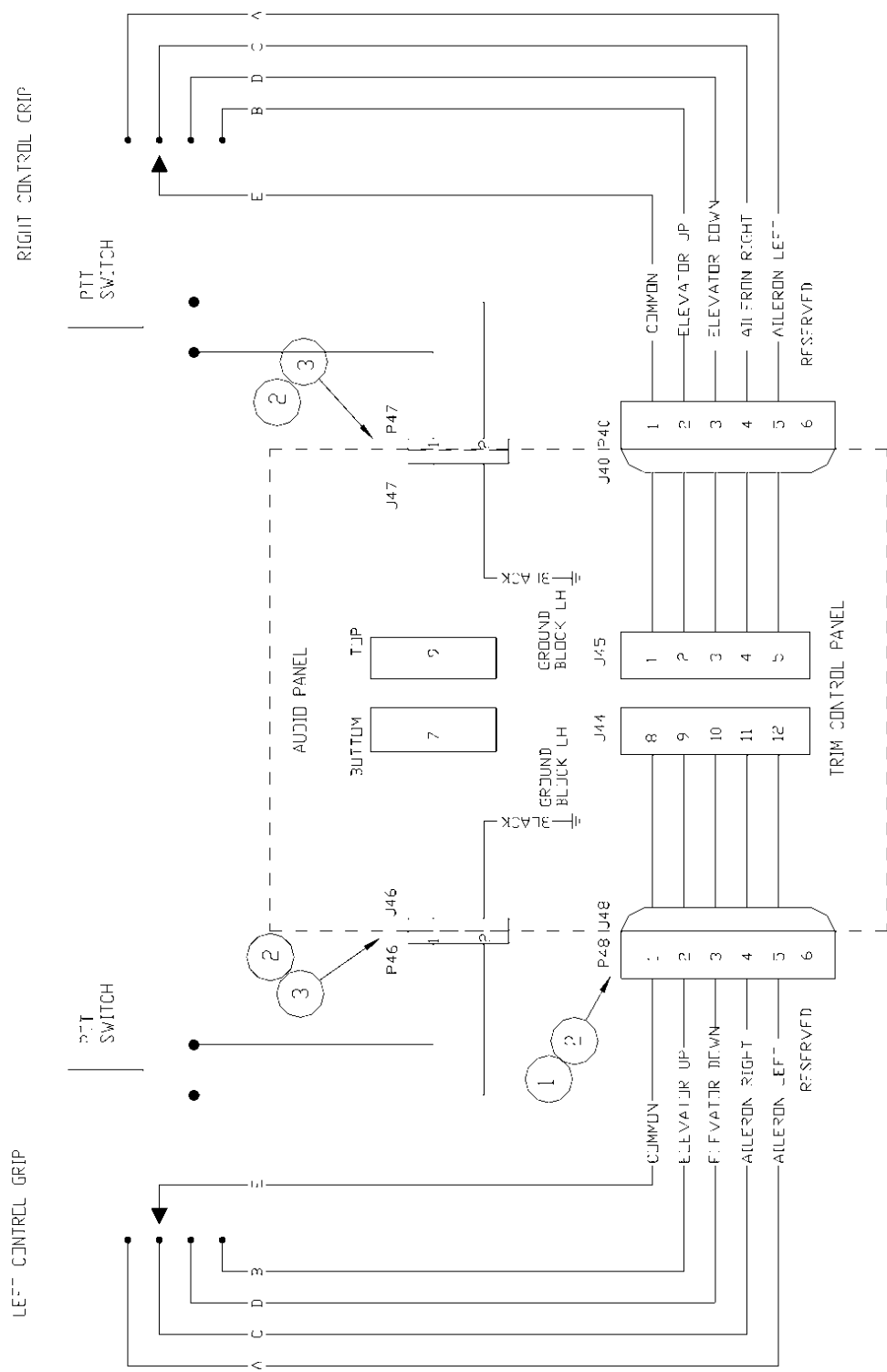
3. PLUG TUBE END WITH ADHESIVE, ITEM 3, AFTER ASSEMBLY.

7. 1. M22759/15-22-0	WIRE, ELECTRIC, MED. WT., 600 V., 22 ga., BLACK
6. 1. 77033-1	PLUG HOUSING, 3-PIN FREE HANGING AMP
5. 2. 79407-1	PIN, 24-38 AWG AMP
4. 2C T-100-14-W	FILTER 300T, BISHOP AVIATION
8. AR. RTV 5818	ADHESIVE
2. 2C 583	LAMP
1. 24. 200-0845-100	TUBING, SUPERTHANE ESTER, 1/4 ID x 3/8 OD LAIRD PLASTICS
ITEM QTY PART NUMBER	DESCRIPTION OR MATERIAL
PARTS LIST	

Detail 25 - 2 Glare Shield Lighting Tube Assembly (LB53254015-) (1/1)

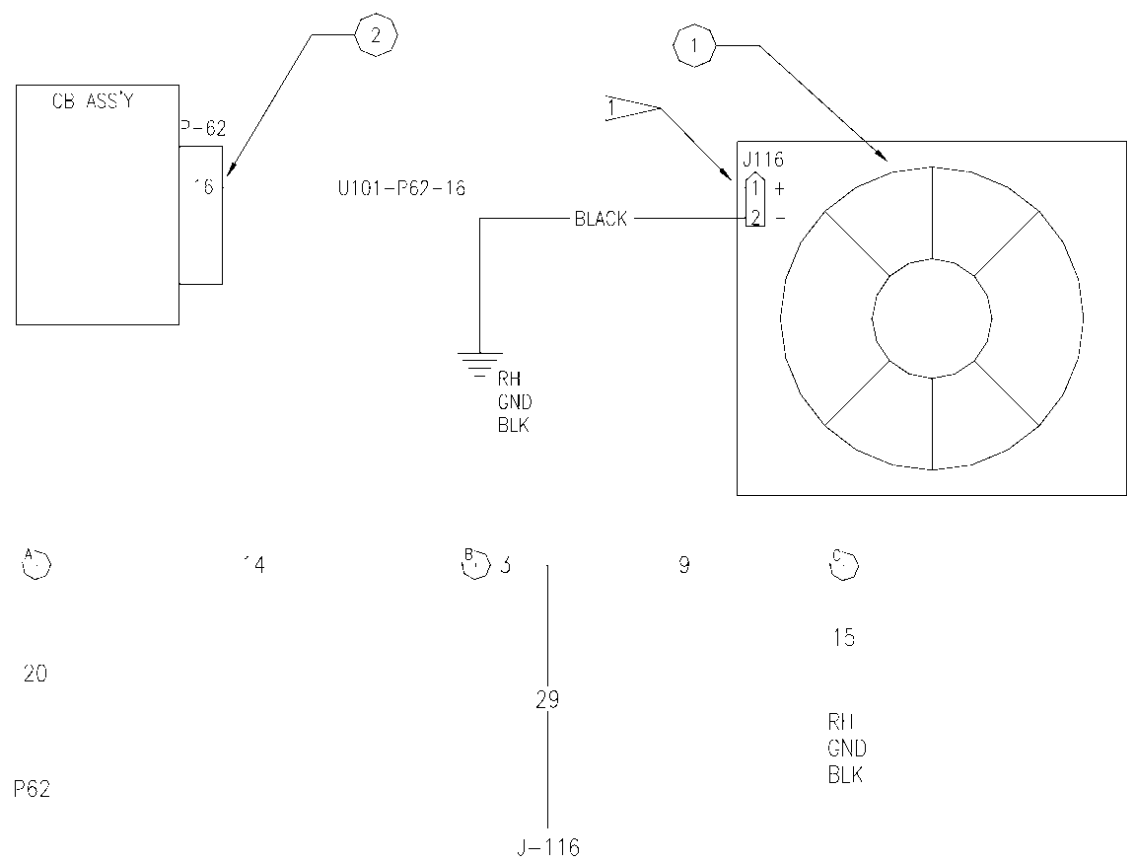
**Detail 25 - 3 Control Stick Assembly (LA53271000F1) (1/3)**

**Detail 25-3 Control Stick Assembly (2/3)**



3	770340-1	PLUG HOUSING, 2 PIN FREE HANGING	AMP
2	/9401/-1	PIN, 24-20 AWG	AMP
1	/70355-1	PLUG HOUSING, 6 PIN FREE HANGING	AMP
ITEM	PART NUMBER	DESCRIPTION OR MATERIAL	REFERENCE

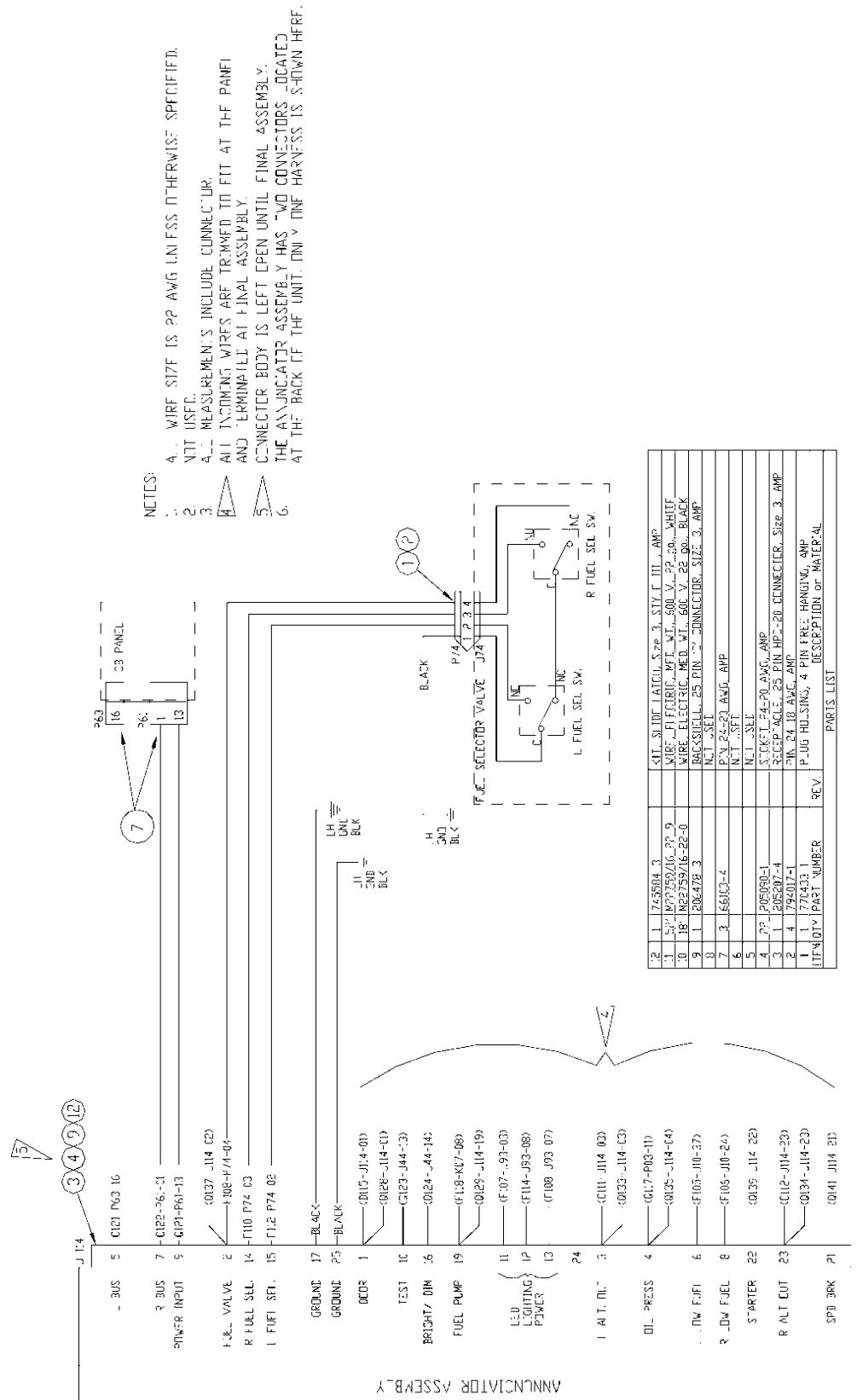
Detail 25-3 Control Stick Assembly (3/3)



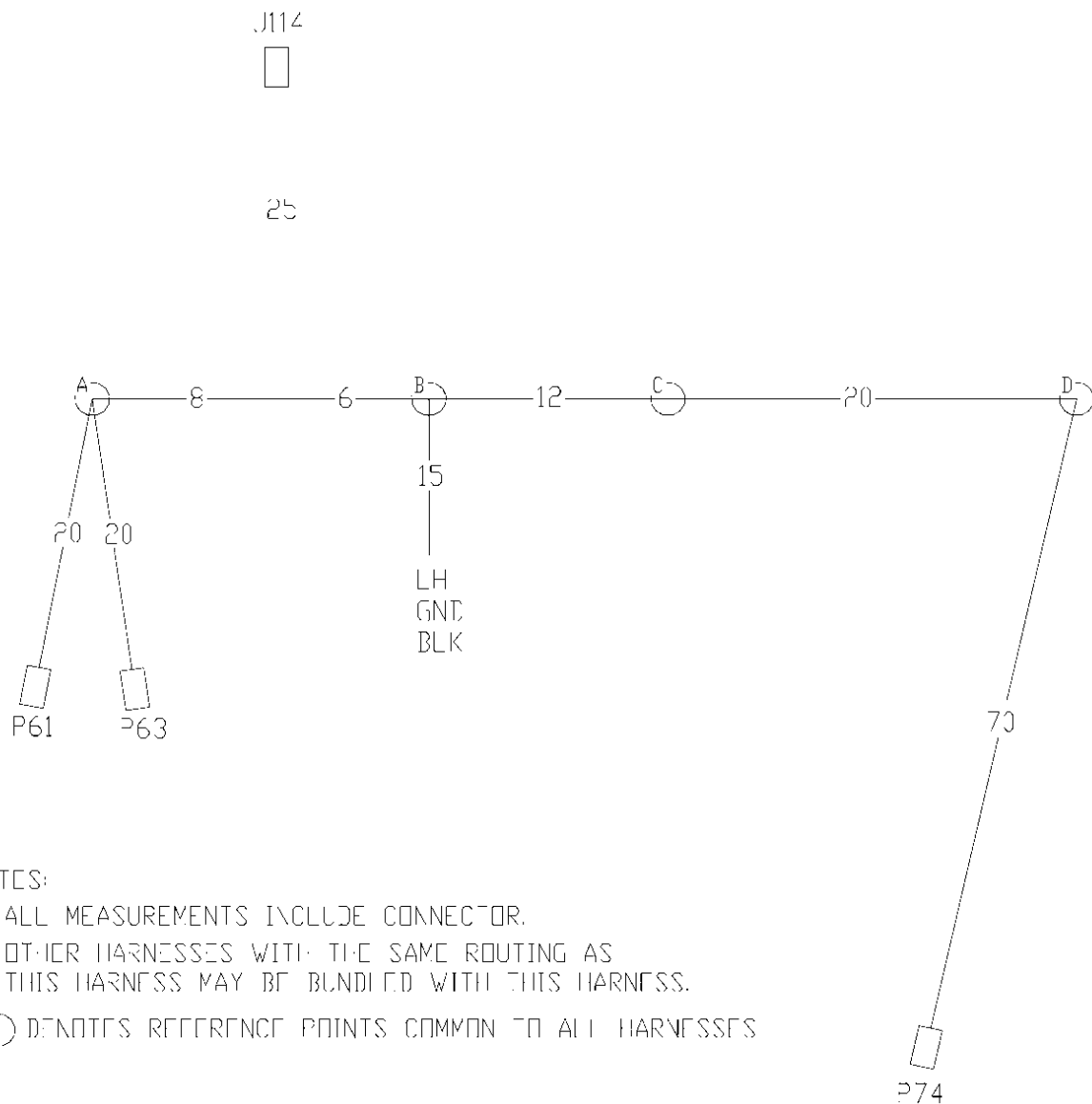
- NOTES:
- 1. USE AMP CONNECTOR AND TERMINATIONS SUPPLIED WITH THE AVIONICS FAN.
 - 2. NOT USED.
 - 3. ALL MEASUREMENTS INCLUDE CONNECTOR.
 - 4. OTHER HARNESS WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED WITH THIS HARNESS.
 - 5. X DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES.

2	1	66103-4	PIN, 24-20 AWG, AMP
1	1	FN-200	FAN, AVIONICS, MULTI-PORT, 130.0
REV	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

Detail 25 - 4 Avionics Fan Wiring (LB53514700A1) (1/1)



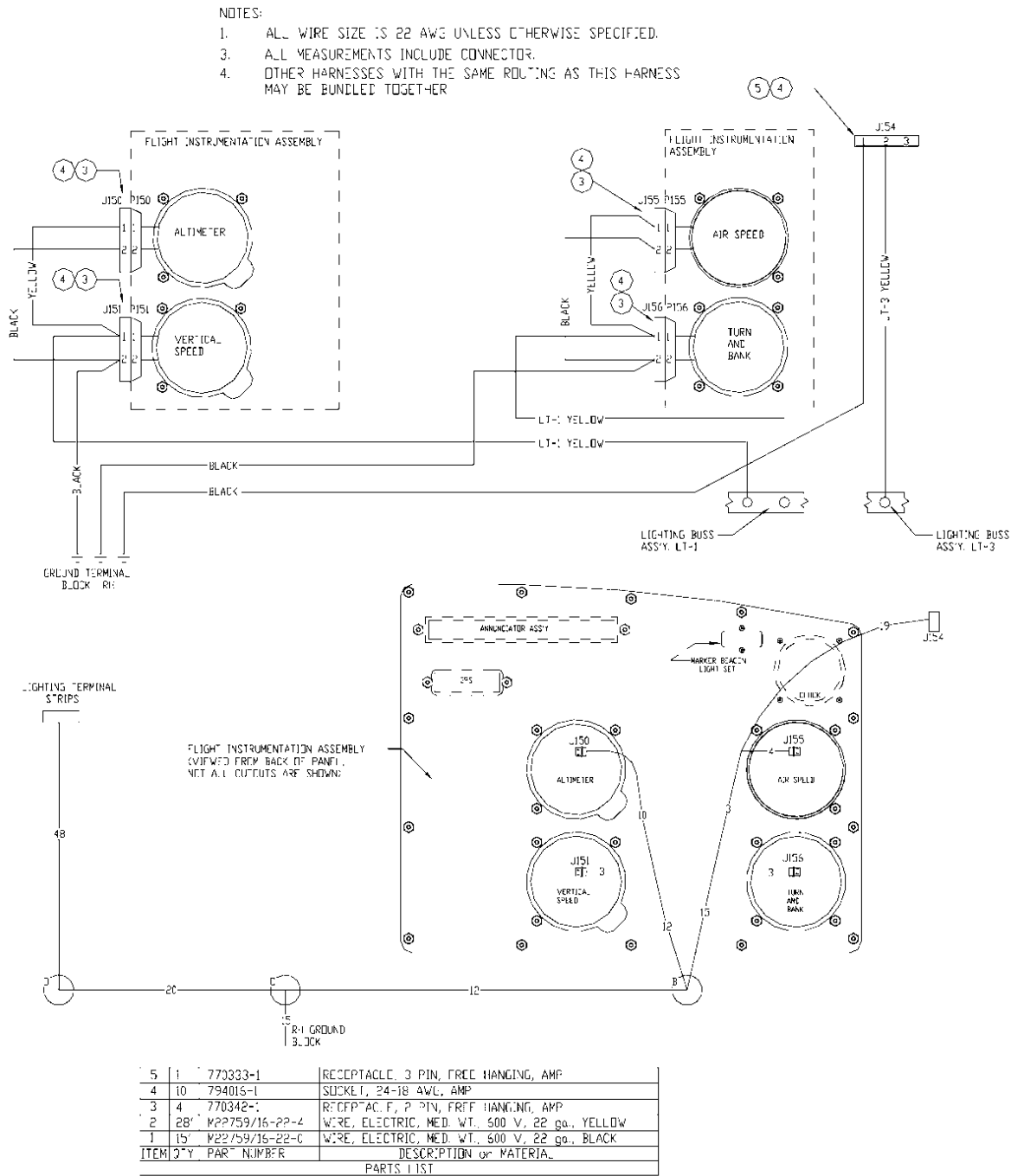
Detail 25 - 5 Annunciator Assembly Wiring (LC53514300B1) (1/2)



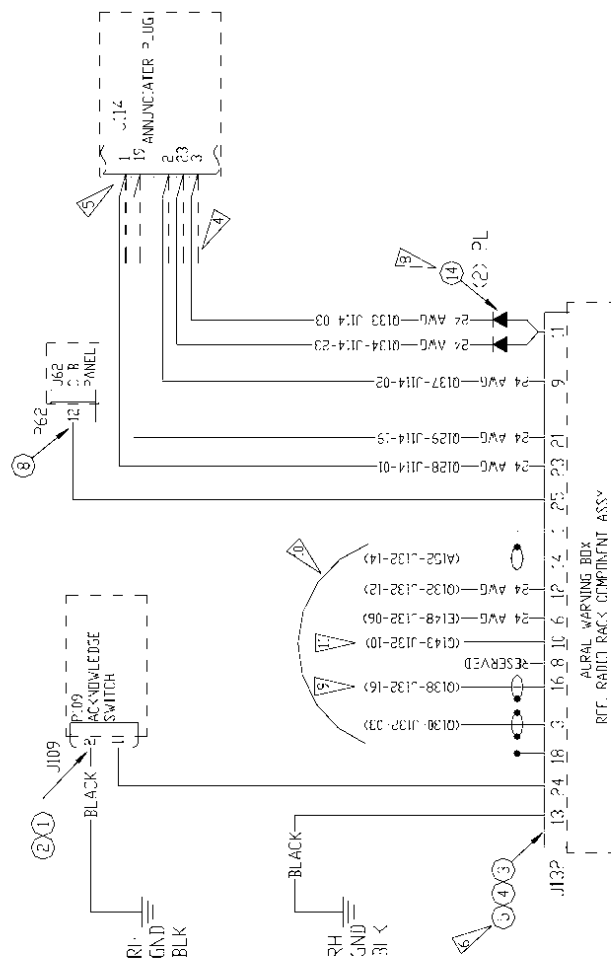
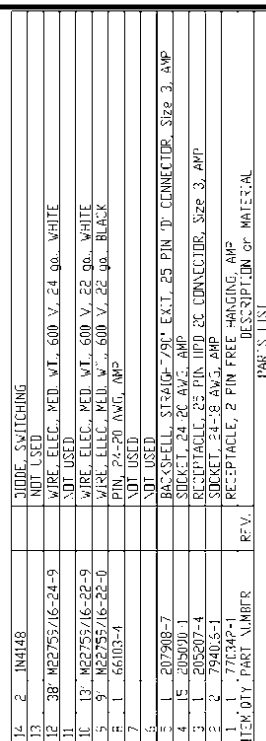
NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. OTHER HARNESSSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED WITH THIS HARNESS.
3. X DENOTES REFERENCE POINTS COMMON TO ALL HARNESSSES

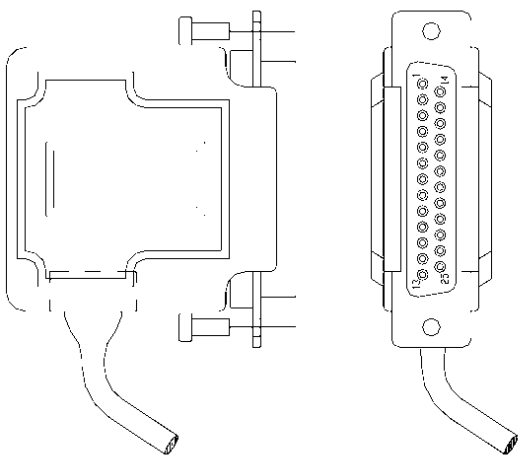
Detail 25 - 5 Annunciator Assembly Wiring (2/2)



Detail 25 - 6 Wiring for Flight Instrument Lighting (LB53514803B) (1/1)



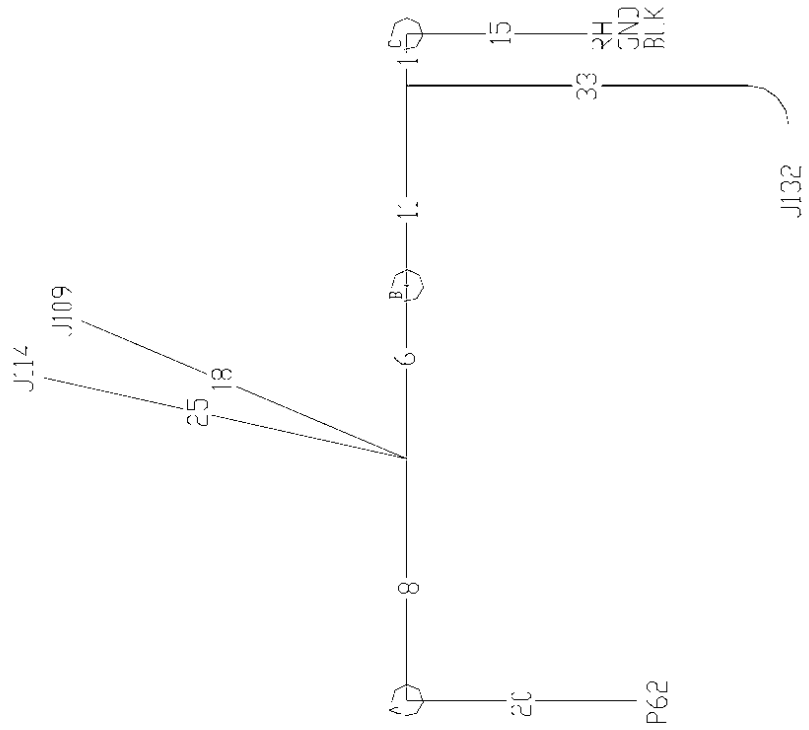
Detail 25 - 7 Aural Warning System Wiring (LC53344201B) (1/2)



DETAIL A-BACKSHELL ASSEMBLY

NOTES:

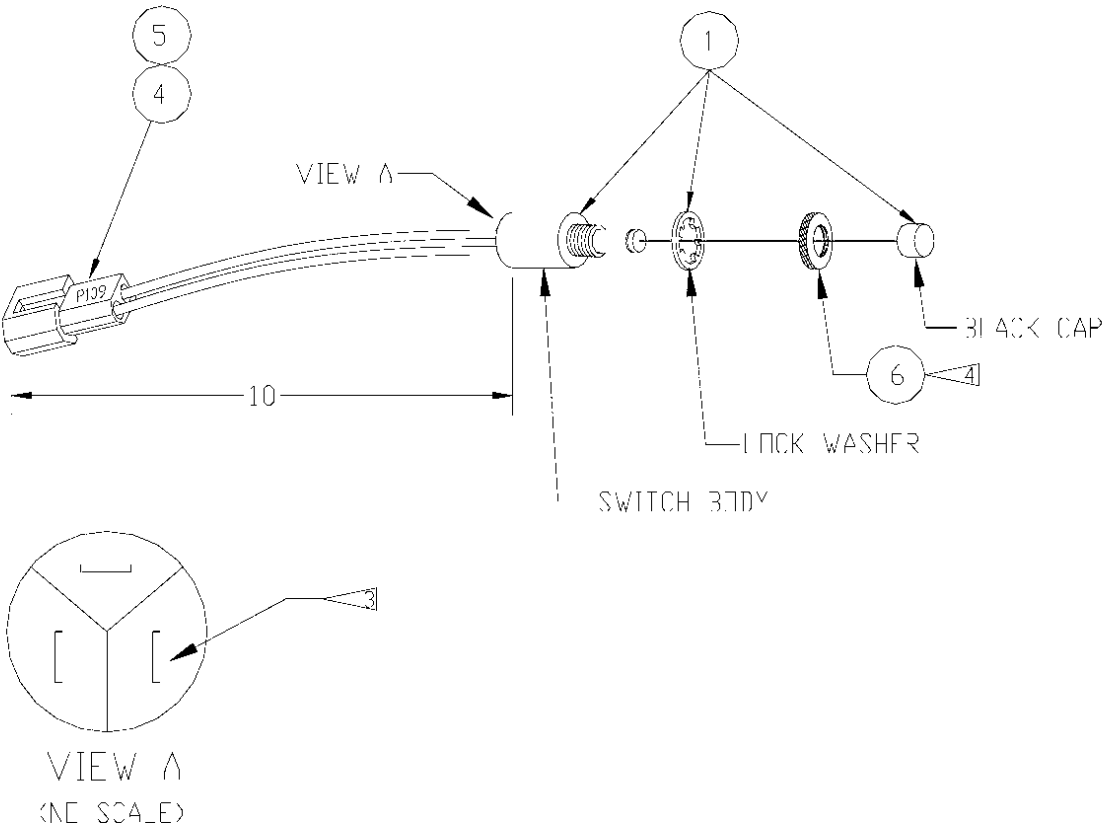
- 1. ALL MEASUREMENTS INCLUDE CONNECTOR.
- 2. ⓧ DENOTES REFERENCE PLANS CUMMINS AU ALL HARNESSES.



Detail 25 - 7 Aural Warning System Wiring (2/2)

NOTES:

- 1. NOT USED.
- 2. ALL MEASUREMENTS INCLUDE CONNECTOR.
- 3. THIS POST IS NOT USED IN THIS ASSEMBLY. CUT OFF TO AVOID CONFUSION AT INSTALLATION.
- 4. DISCARD THE DRESS NUT SUPPLIED WITH ITEM 1 AND REPLACE WITH ITEM 6.



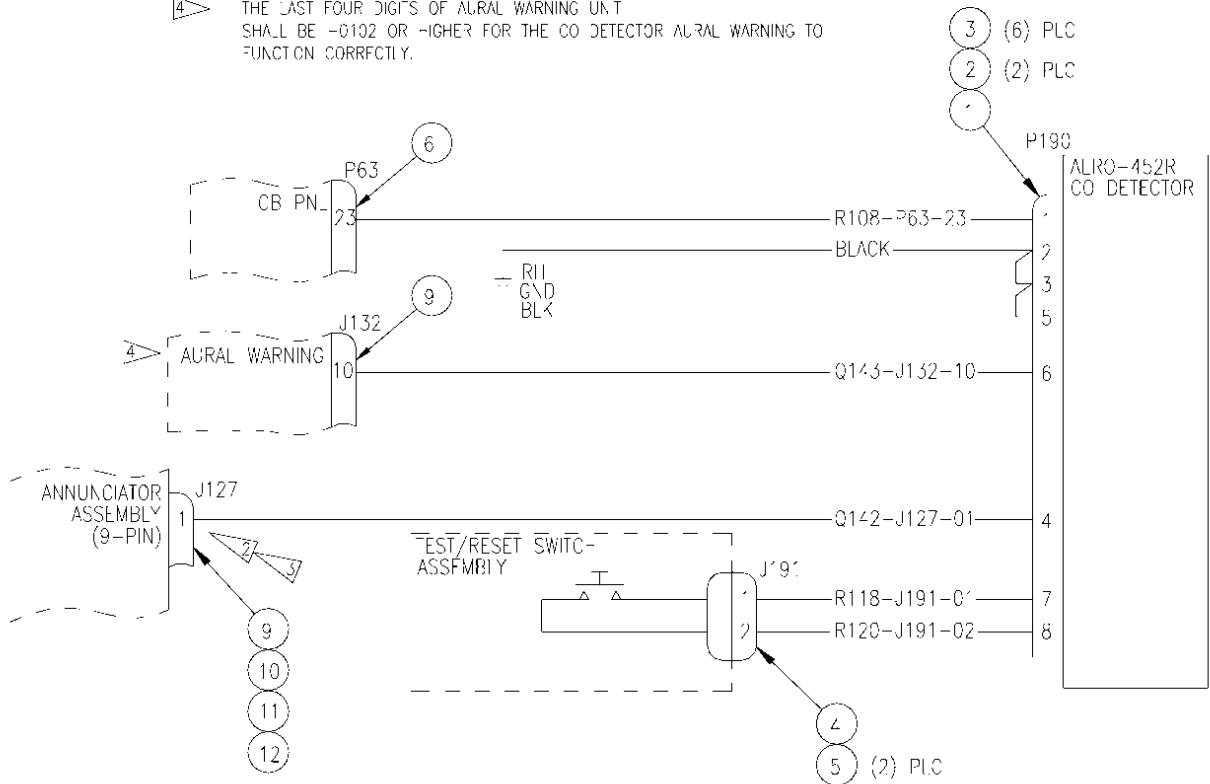
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL
6	1	143/628-7		NUT, KNURLED, 1/4-40, TYPED
5	1	77C34C-1		PLUG HOUSING, 2-PIN, FREE HANGING, AMP
4	2	794017-1		PIN, 24-18 AWG, AMP
3	2	M22759-16-22-9		WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., WHITE
2	1	MPA103F		NOT USED
1	1	MPA103F		SWITCH, SPDT, MOMENTARY TACTILE, AUGAT/ACOSWITCH

PARTS LIST

Detail 25 - 8 Aural Warning System Switch Assembly (LA53344203-4) (1/1)

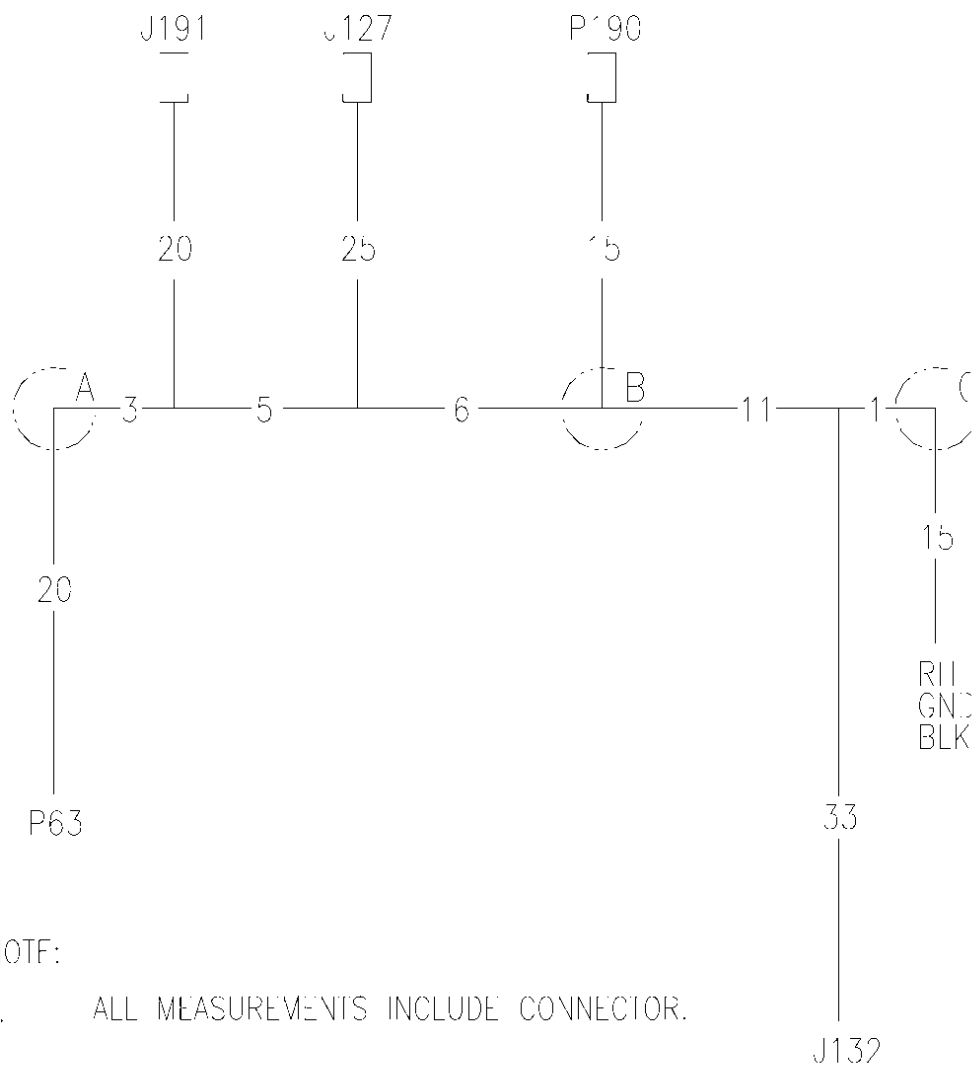
NOTES:

- 1 ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE NOTED.
- 2 USE DETERMINE PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.
- 3 FOR AIRPLANE EQUIPPED WITH FADEC AND/OR OXYGEN SYSTEM, ONLY ITEM 9 WILL BE USED.
- 4 THE LAST FOUR DIGITS OF ALRAL WARNING UNIT SHALL BE -0102 OR HIGHER FOR THE CO DETECTOR ALRAL WARNING TO FUNCTION CORRECTLY.



3	2	2	1	745404-1		SLIDE LATCH KIT, SIZE 1, AMP
		11	1	206478-1		BACKSHELL, D CONNECTOR, SIZE 1, AMP
		10	1	205203-1		RECEPTACLE, 9 P.N., D CONNECTOR, SIZE 1, AMP
		9	2	205090-1		SOCKET, 18-24 AWG, AMP
		8	22	M22759/6-22-9		WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., WHITE
		7	4	M22759/6-22-0		WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., BLACK
		6	1	66099-4		PIN, 18-18 AWG, AMP
		5	2	794016-1		SOCKET, 24-18 AWG, AMP
		4	1	770342-1		RECEPTACLE HOUSING, 2-SOCKETS, FREE HANGING, AMP
		3	6	60618-1		PIN, BRASS, 24-18 AWG, AMP
2	2	60620-1		PIN, BRASS, 20-14 AWG, AMP		
1	1	1480345-0		CONNECTOR, P.N. HOUSING, 8 PINS, AMP		
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL		
PARTS LIST						

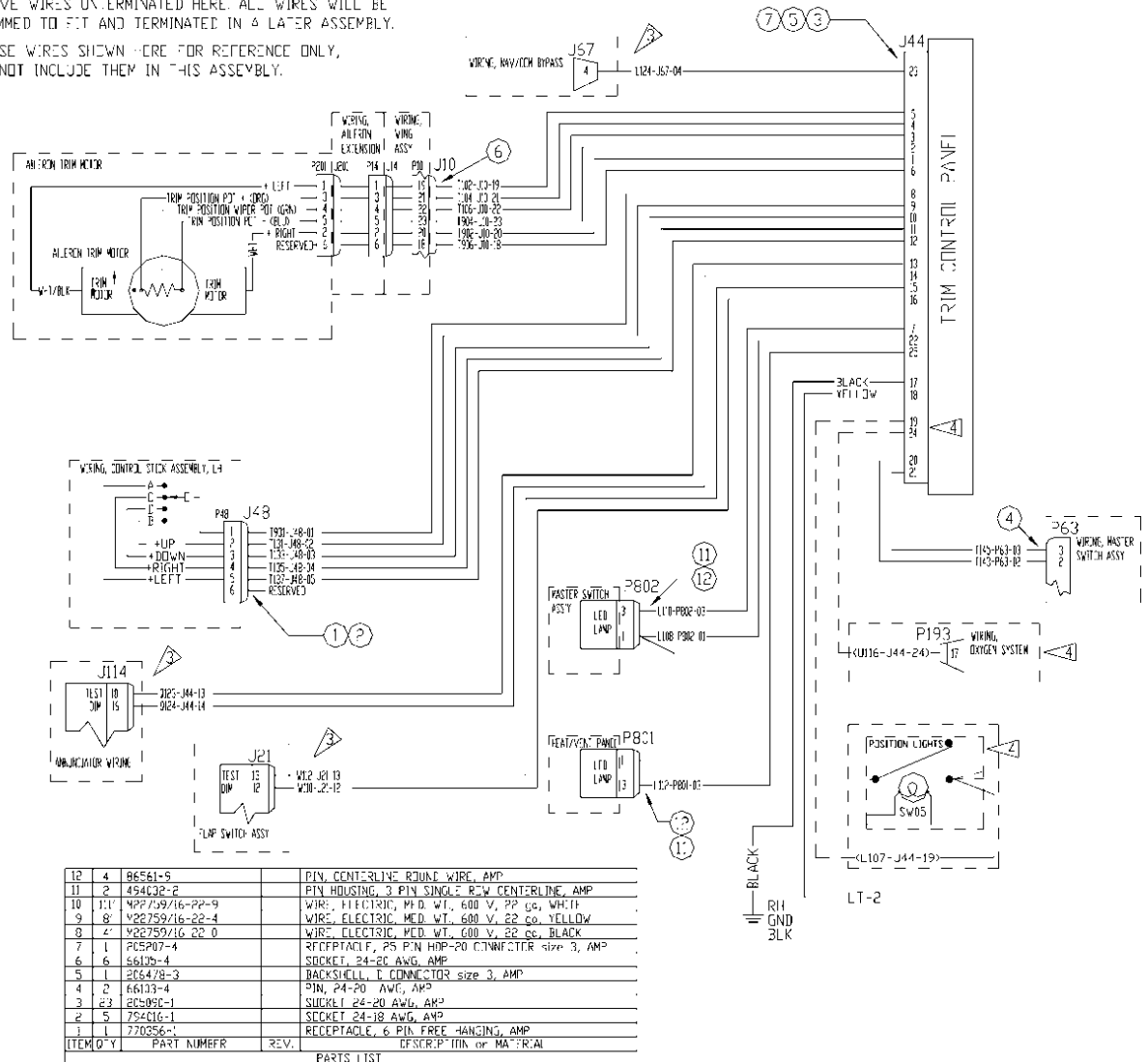
Detail 25 - 9 Carbon Monoxide Detector Wiring (LB53344905-) (1/2)

**Detail 25 - 9 Carbon Monoxide Detector Wiring (2/2)**

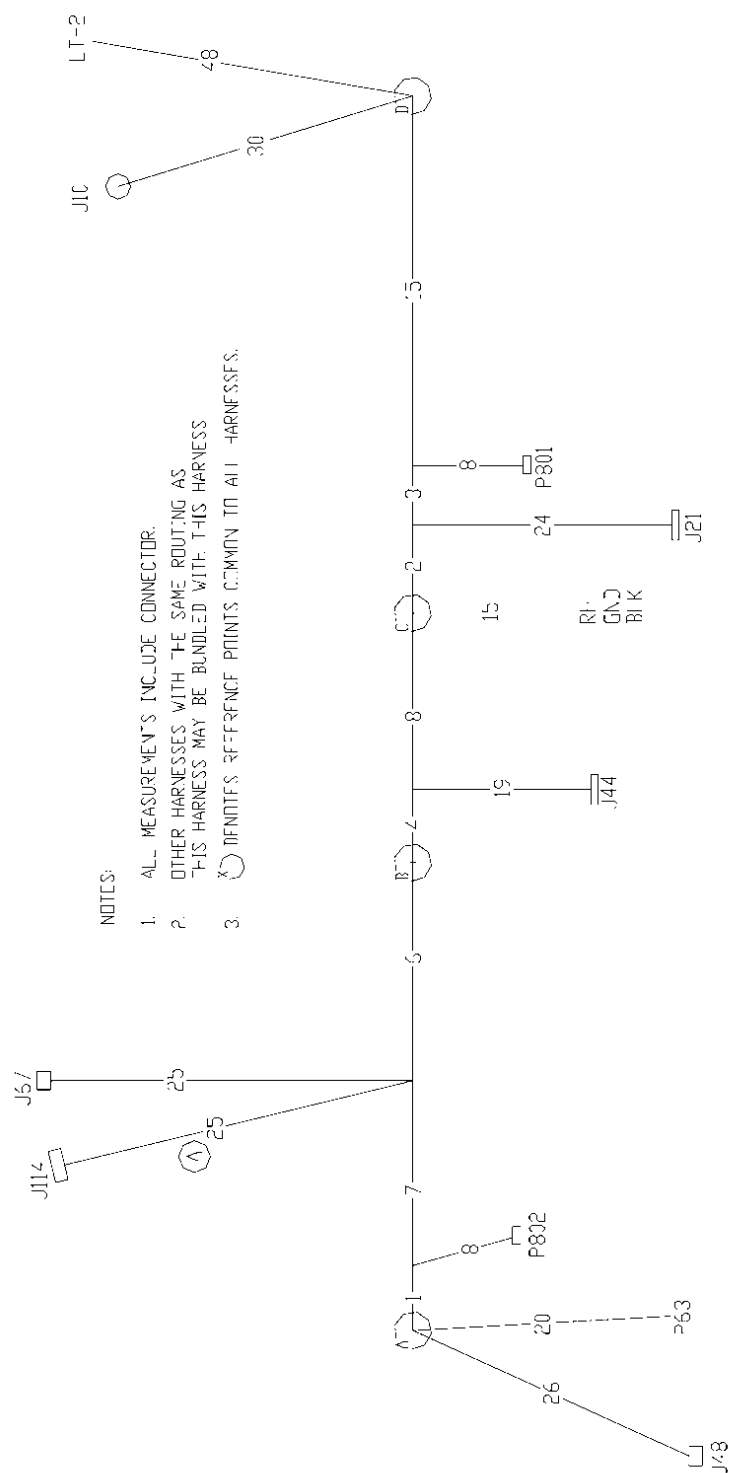
- End of Chapter -

NOTES:

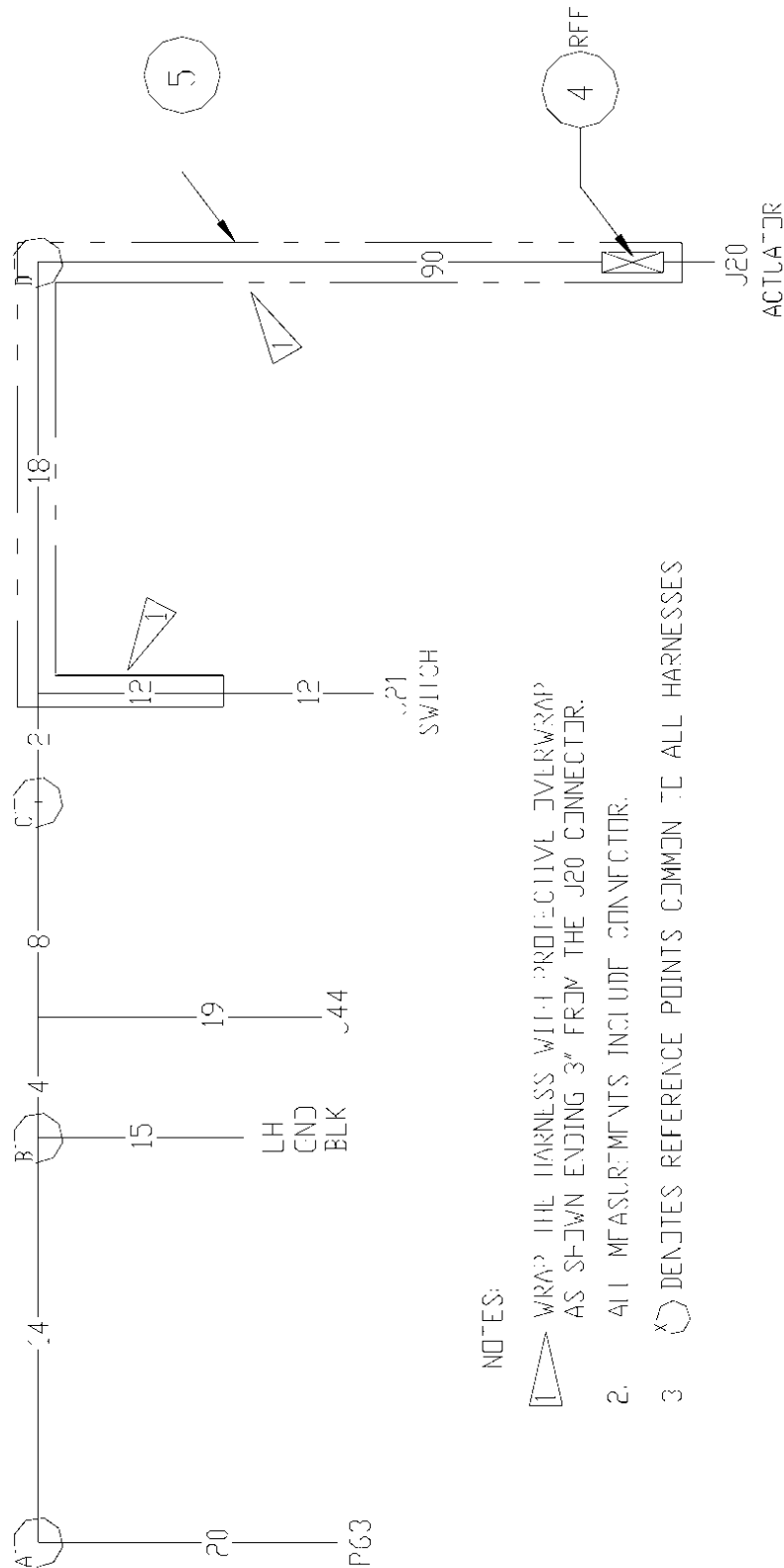
1. NOT USED.
2. POSITIVE VOLTAGE DETERMINES MOVEMENT DIRECTION AS FOLLOWS:
 - A. AILERON, ROD EXTENDS, LEFT BANK
 - B. ELEVATOR, ROD EXTENDS, NOSE DOWN
3. LEAVE WIRES UNTERMINATED HERE. ALL WIRES WILL BE TRIMMED TO FIT AND TERMINATED IN A LATER ASSEMBLY.
4. THESE WIRES SHOWN HERE FOR REFERENCE ONLY, DO NOT INCLUDE THEM IN THIS ASSEMBLY.



Detail 27 - 1 Trim System Wiring, J44 Connector (LC53313001A) (1/2)



Detail 27-1 Trim System Wiring, J44 Connector (2/2)



- NOTES:
- 1. WRAP THE HARNESS WITH PROTECTIVE OVERWRAP AS SHOWN ENDING 3" FROM THE J20 CONNECTOR.
 - 2. ALL MEASUREMENTS INCLUDE CONNECTOR.
 - 3. DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES

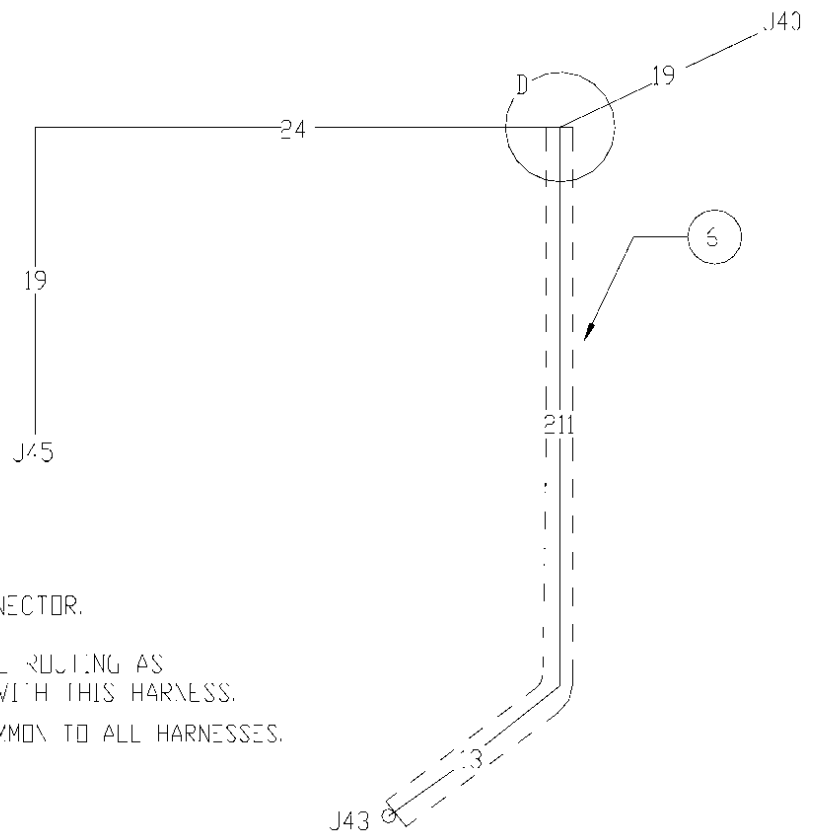
Detail 27 - 2 Flap Panel Wiring Assembly (2/2)



1. POSITIVE VOLTAGE DETERMINES MOVEMENT DIRECTION AS FOLLOWS:
A. AILERON, ROD EXTENDS, LEFT BANK
B. ELEVATOR, ROD EXTENDS, NOSE DOWN

12	:	315390-7	PLUG, CAVITY, AMP	AMP
11	6	917308-1	CONTACT, RECEPTACLE, AMP	AMP
10	:	917318-4	NOT USED	AMP
9	:	917318-4	HOUSING, PLUG, SEVEN POSITION, AMP	AMP
8	:		NOT USED	
7	203	M22759/16-22-9	WIRE, ELECTRIC, MED WT, 600 V, 22 ga, WHITE	---
6	19	567603083/ 655000352	ROUNDIT 2300NX, (5/16") PROTECTIVE OVERWRAP ROUNDIT 2000, PROTECTIVE WIRE WRAP	---
5	:	236478-2	BACKSHELL, D CONNECTOR size 2, AMP	AMP
4	1	235390-1	SOCKET 24 20 AWG, AMP	AMP
3	:	205205-5	RECEPTACLE, 15 PIN HDP 20 CONNECTOR size 2, AMP	AMP
2	5	794016-1	SOCKET 24-18 AWG, AMP	AMP
1	:	770356-1	RECEPTACLE, 6 PIN FREE HANGING, AMP	AMP
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL	SUPPLIER REF.
PART LIST				

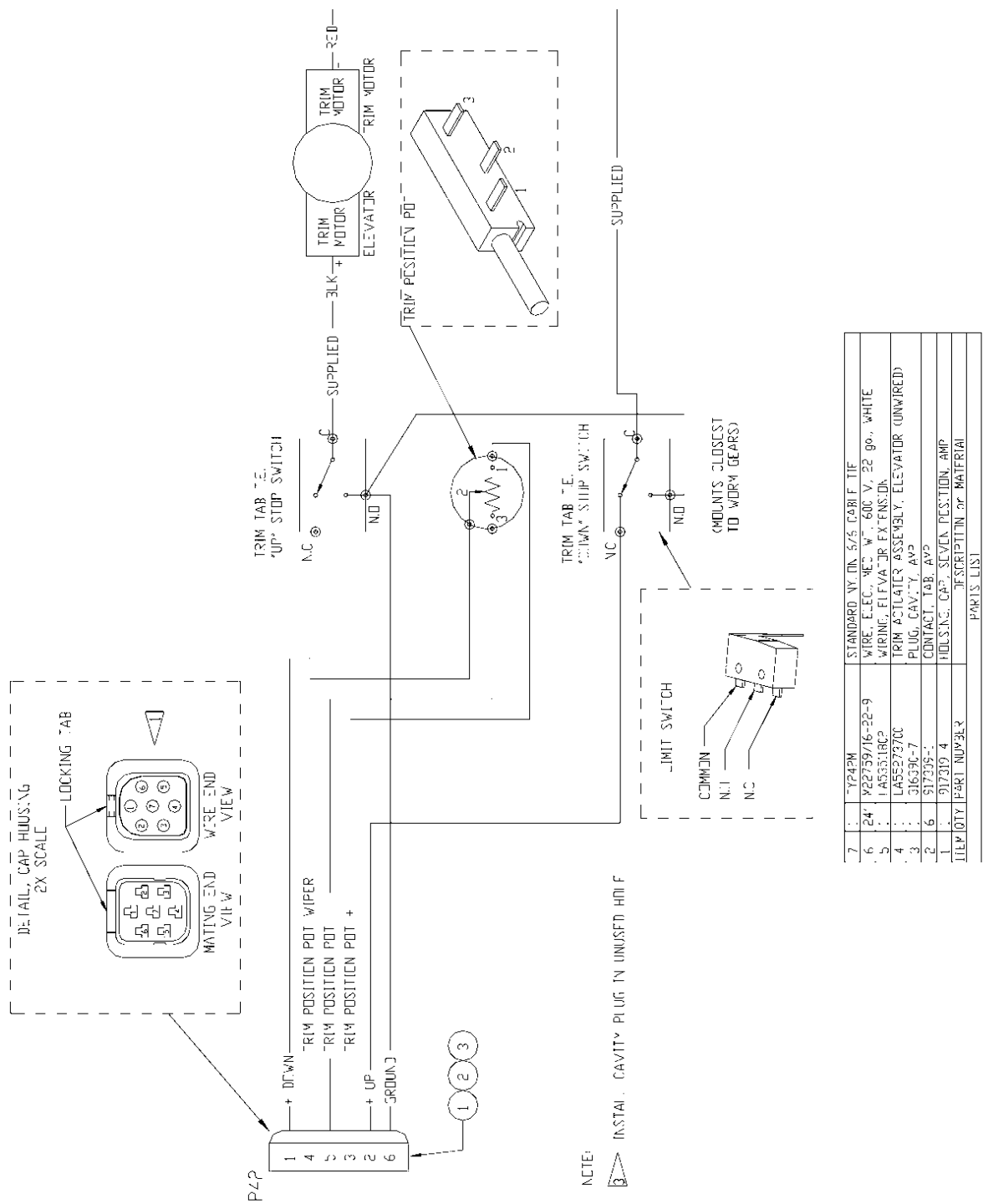
Latest Revision Date: 02/04/08
RC240005A



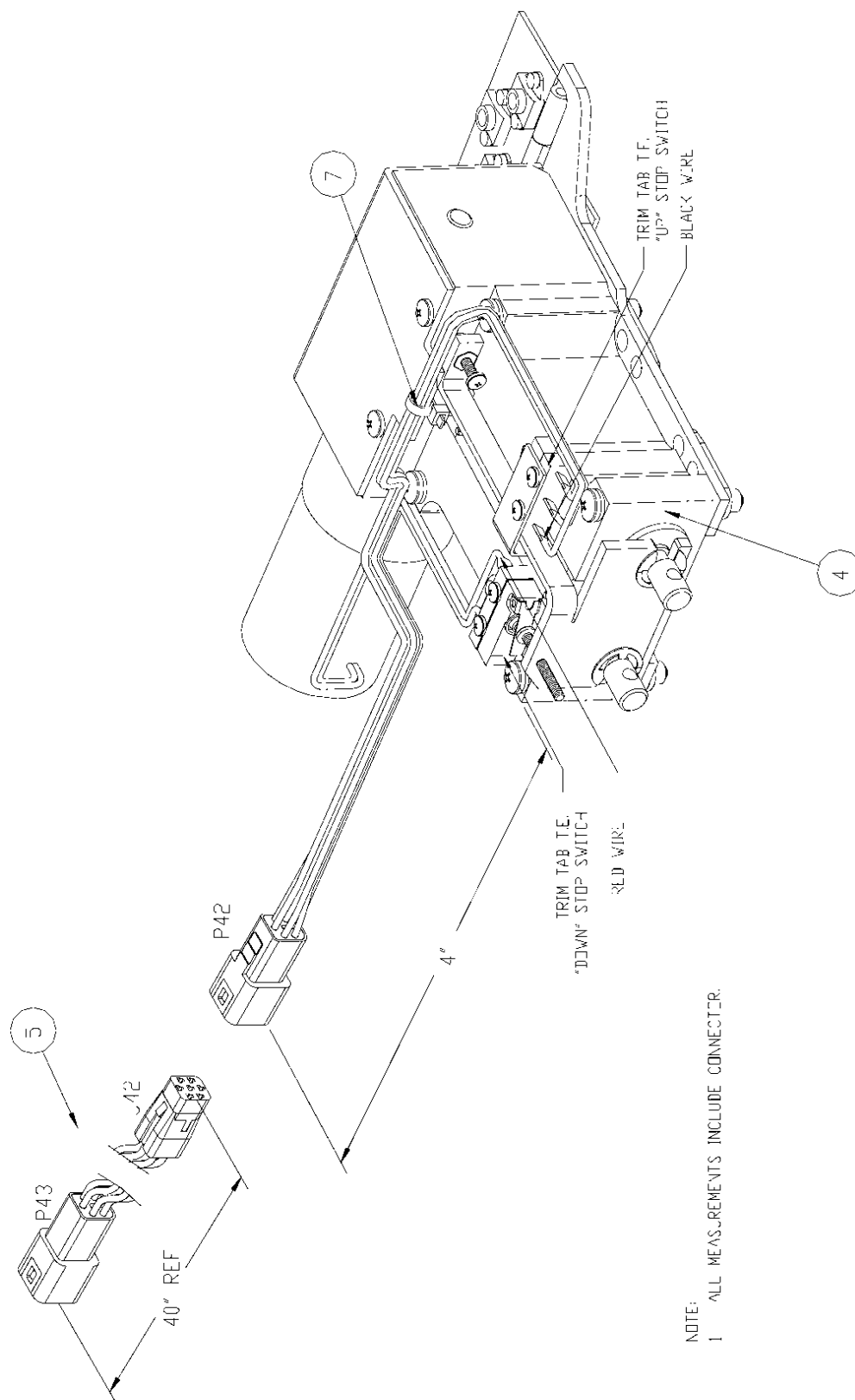
NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. OTHER HARNESSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED WITH THIS HARNESS.
3. ○ DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES.

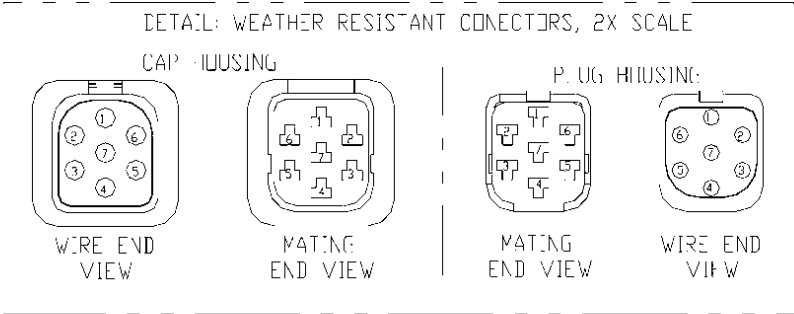
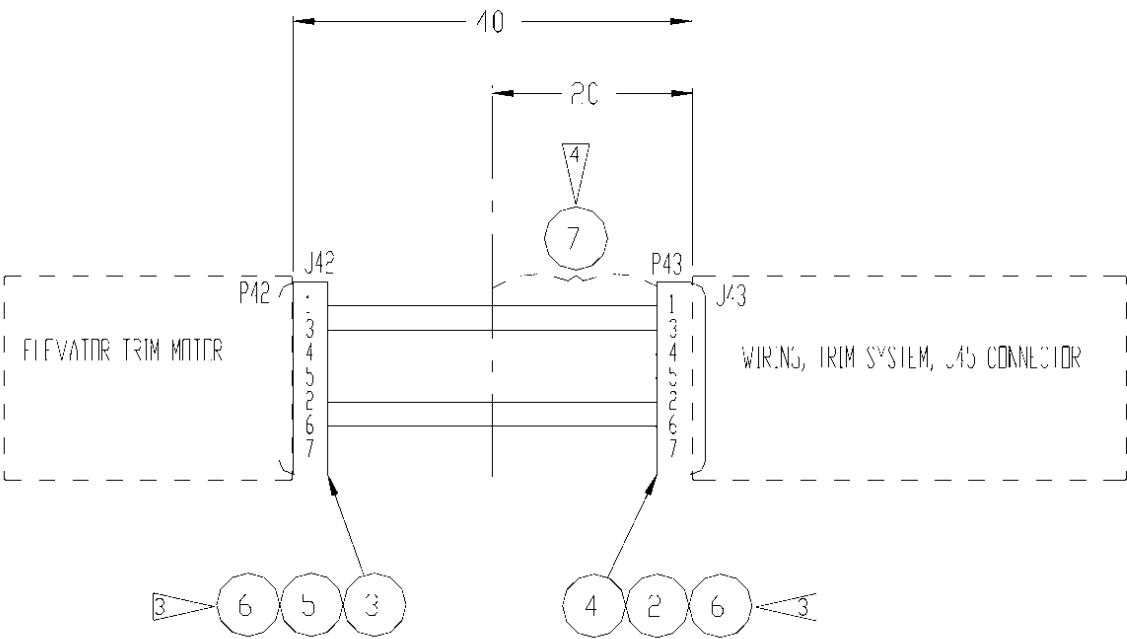
Detail 27 - 3 Trim System Wiring, J45 Connector (2/2)



Detail 27 - 4 Trim Actuator, Elevator Wiring (LA53511801G) (1/2)



Detail 27 - 4 Trim Actuator, Elevator Wiring (2/2)

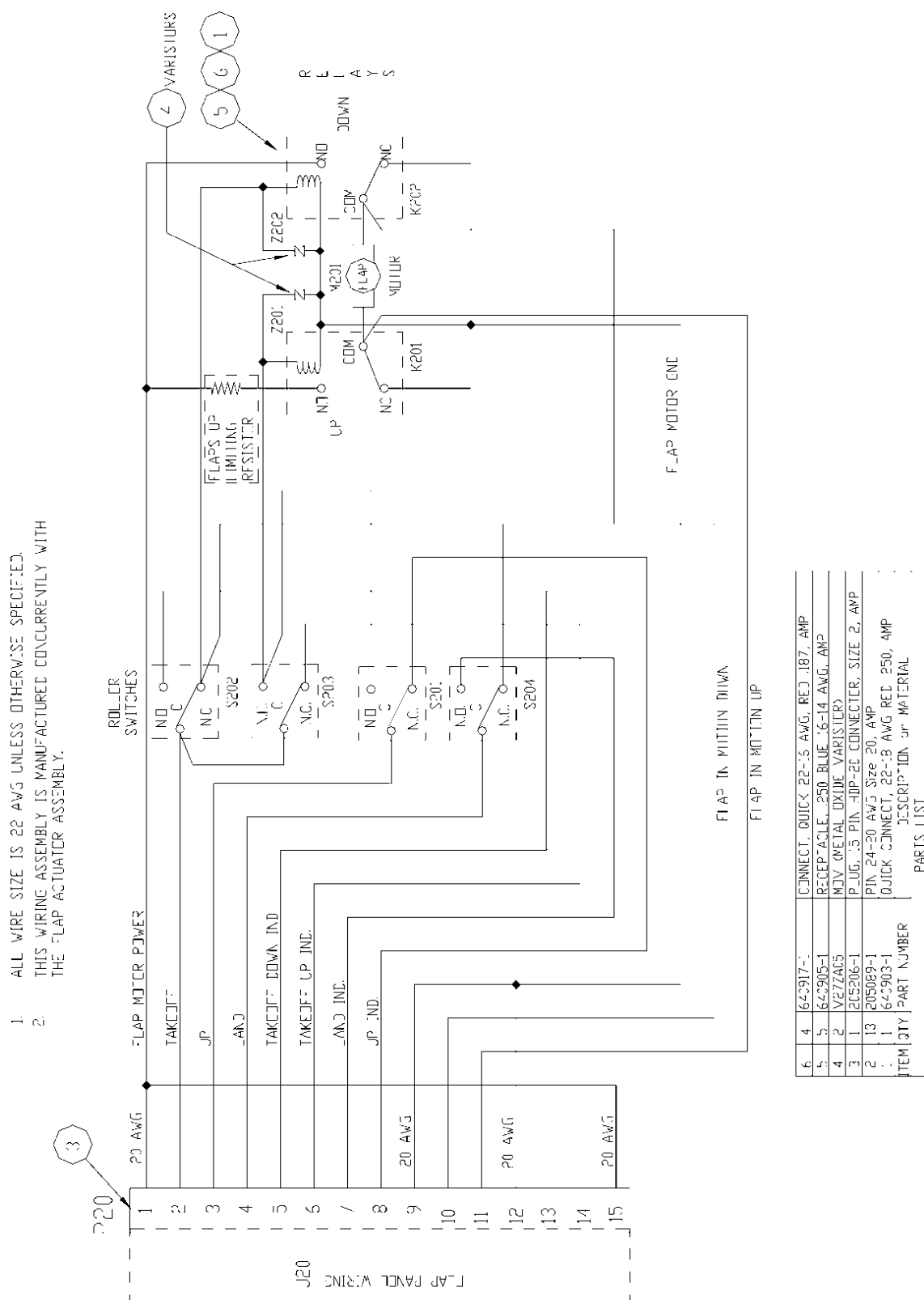


NOTES:

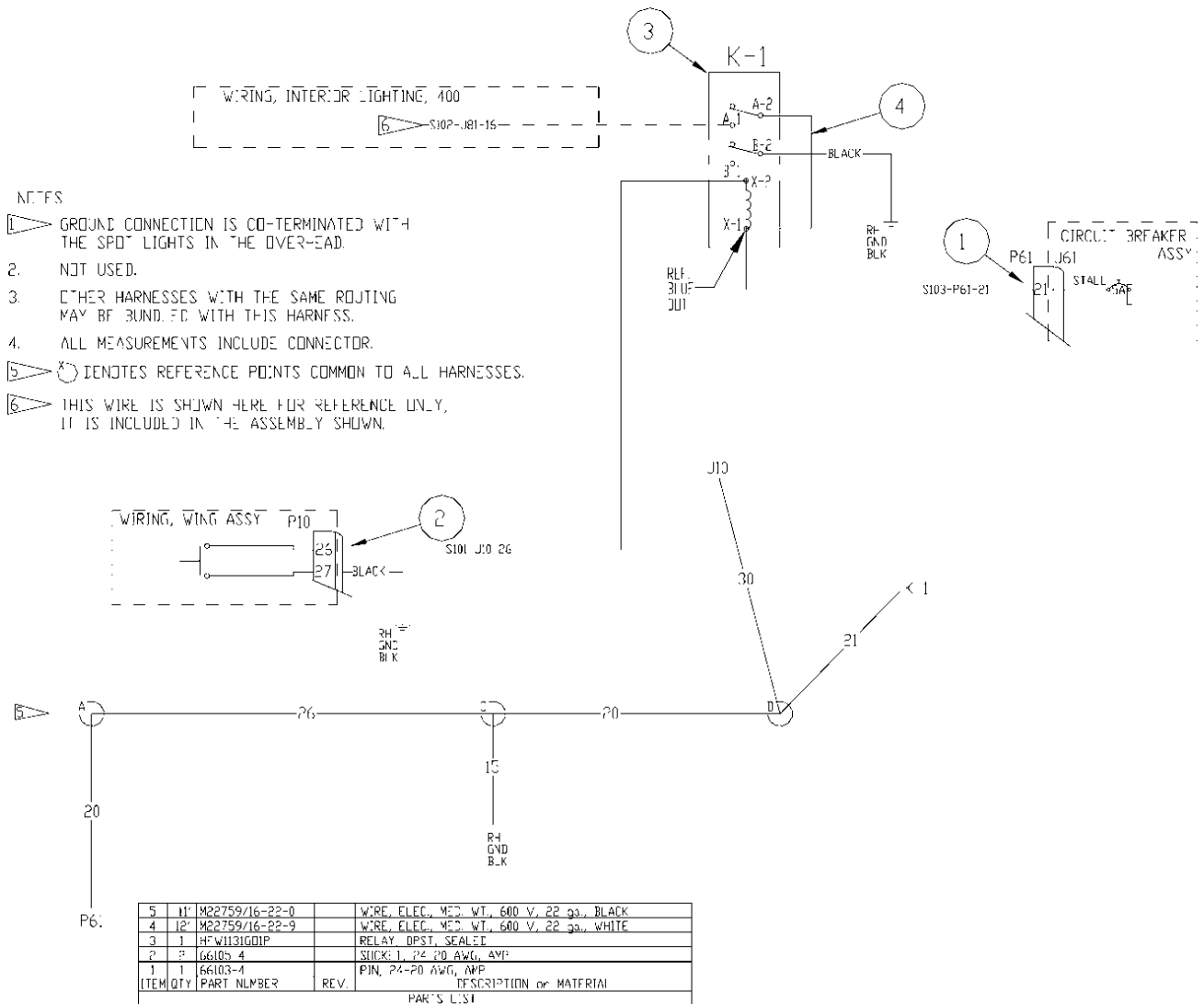
- 1. NOT USED.
- 2. ALL MEASUREMENTS INCLUDE CONNECTOR.
- 3. INSERT PLUG INTO UNUSED CONTACT RECEPTACLE.
- 4. COVER 1/2 OF HARNESS FROM P43 CONNECTOR WITH ANTI-CHAFFE MATERIAL.

7	2'	655000352	OVERWRA? FIRE RESISTANT, ROUNDT, 5/16"
6	2	316390-7	PLUG, CAVITY, AMP
5	6	917308-1	CONTACT, RECEPTACLE, AMP
4	6	917309-1	CONTACT, TAB, AMP
3	1	917318-4	HOUSING, PLUG, SEVEN POSITION, AMP
2	1	917319-4	HOUSING, CAP, SEVEN POSITION, AMP
1	20'	M22759/16-22-9	WIRE, ELECTRIC, M.L. W1, 500 V, 22 ga, WHITE
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

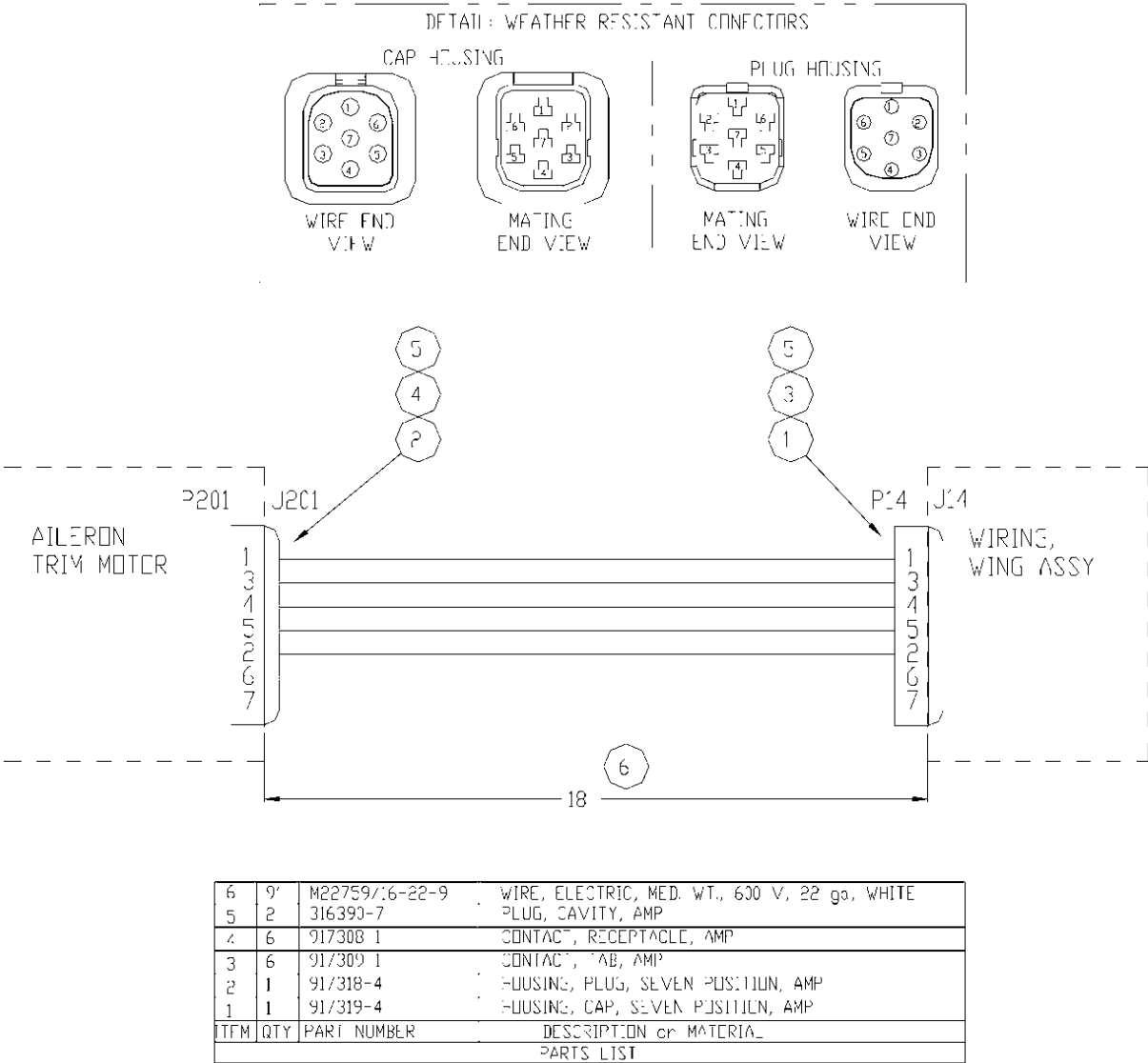
Detail 27 - 5 Elevator Extension Wiring (LA53511802B) (1/1)



Detail 27 - 6 Flap Actuator Wiring Assembly (LA57261015B) (1/1)



Detail 27 - 7 Stall Warning Wiring (LC53514400C1) (1/1)



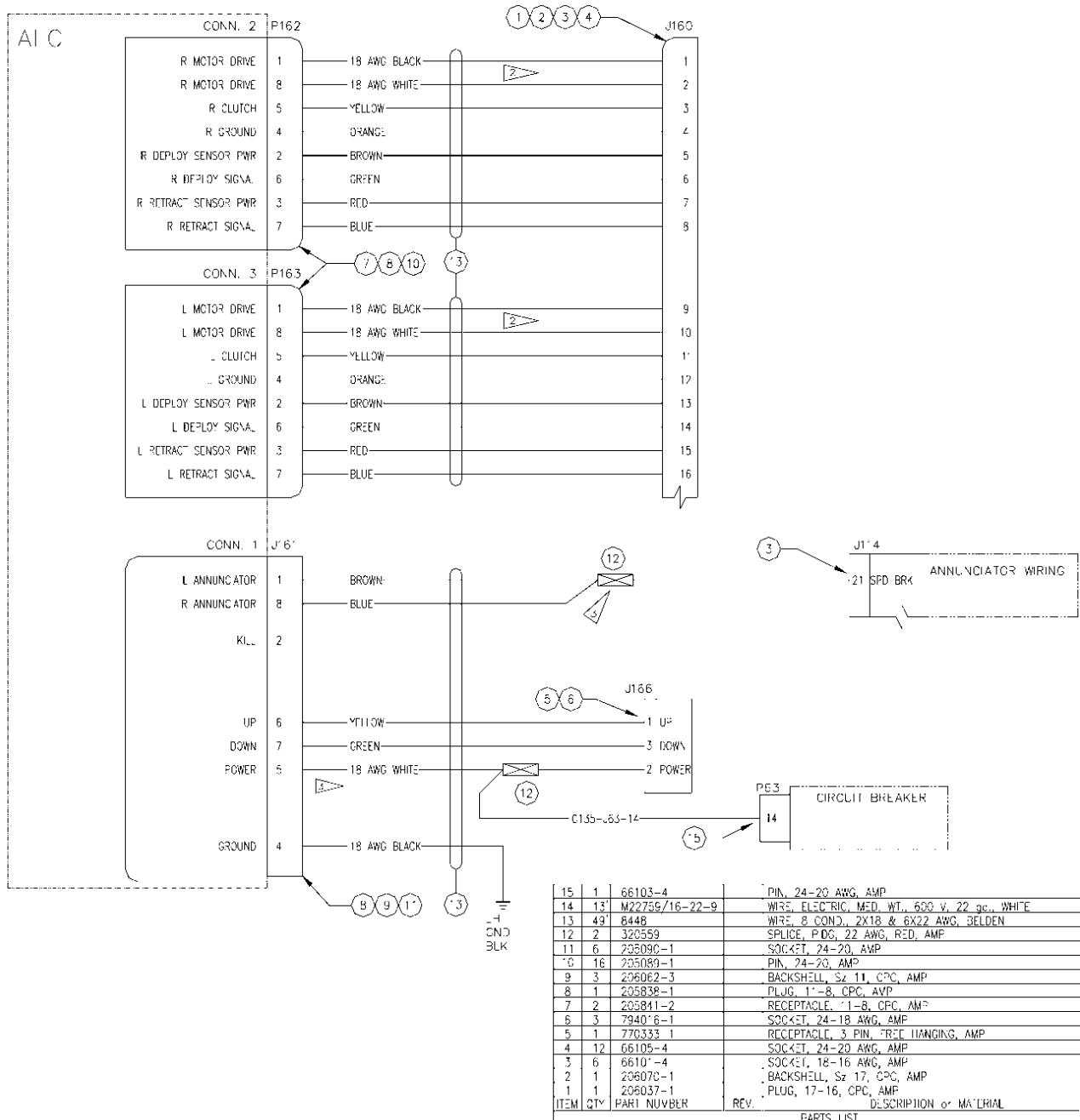
Detail 27 - 8 Aileron Extension Harness Wiring (LA57273232B) (1/1)

NOTES:

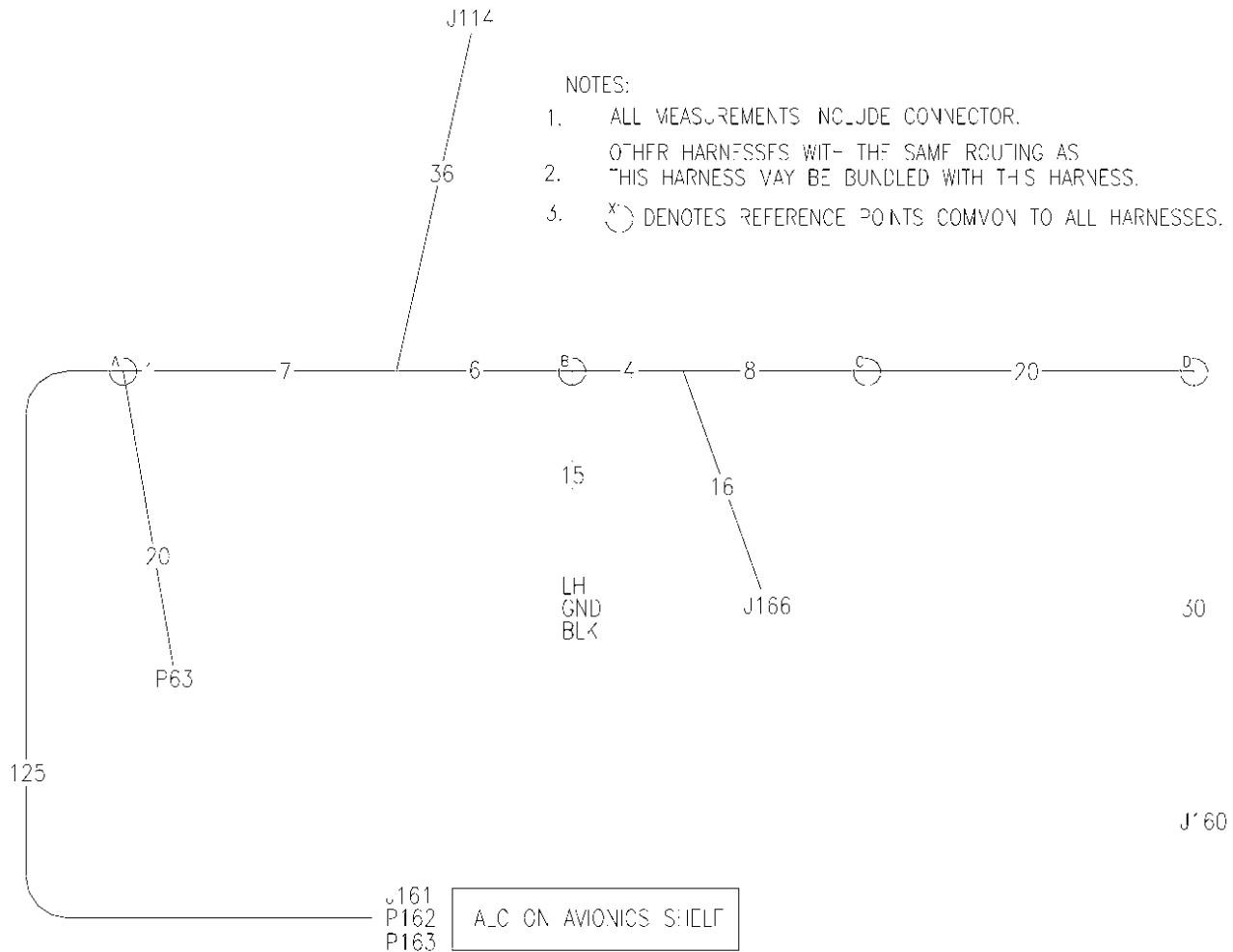
1. NOT USED.

2. IS PERMISSIBLE TO PEEL OFF 4 STRANDS OF THE 18 GAUGE WIRE TO FIT THE PLUG OR SOCKET.

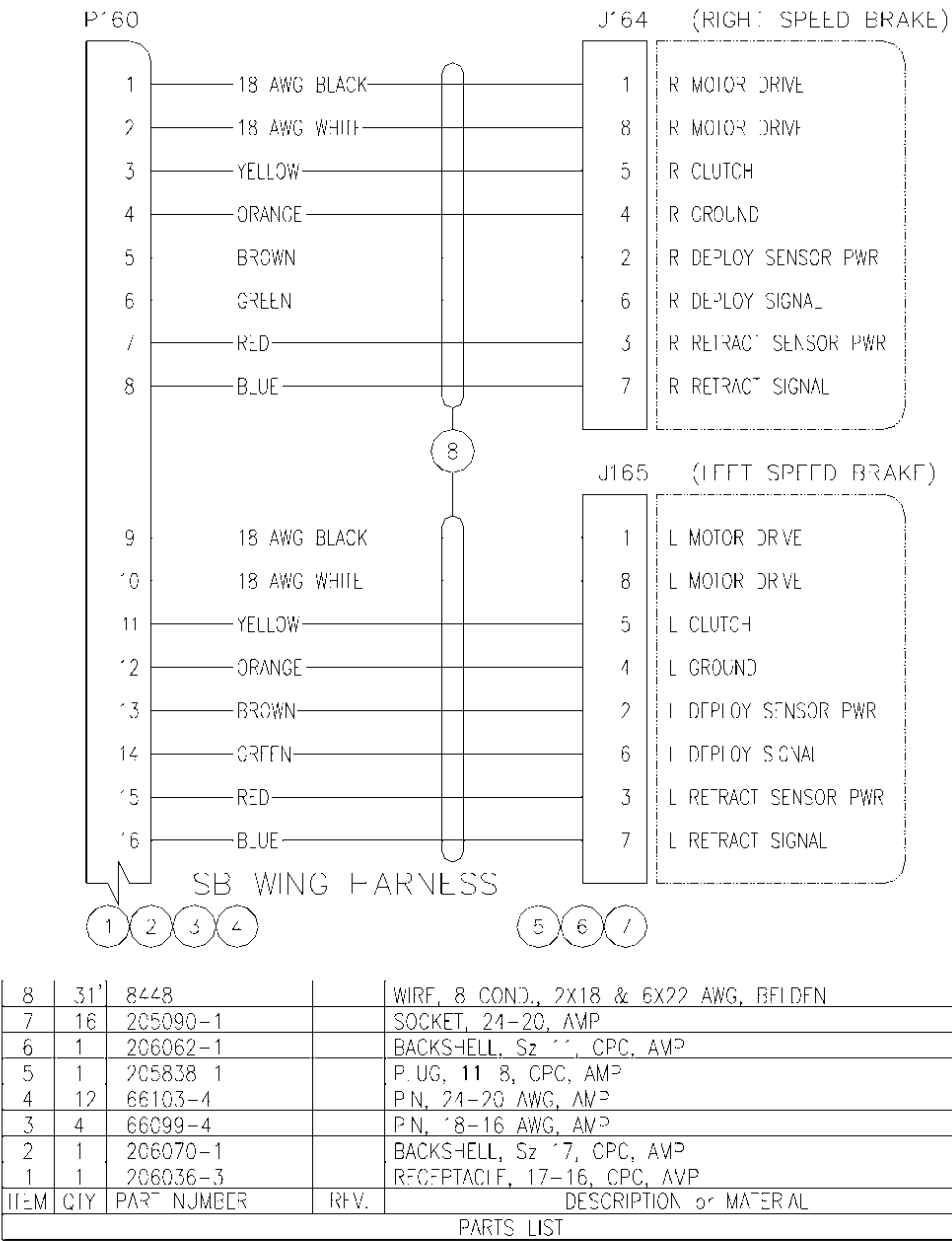
3. PLACE SPLICE TO WITHIN 6" OF J114 CONNECTOR.



Detail 27 - 9 ALC Speedbrakes Wiring (LC53345005B1) (1/2)

**Detail 27 - 9 ALC Speedbrake Wiring (2/2)**

- NOTES:
- 1. ALL WIRE IS 22 AWG UNLESS OTHERWISE SPECIFIED.

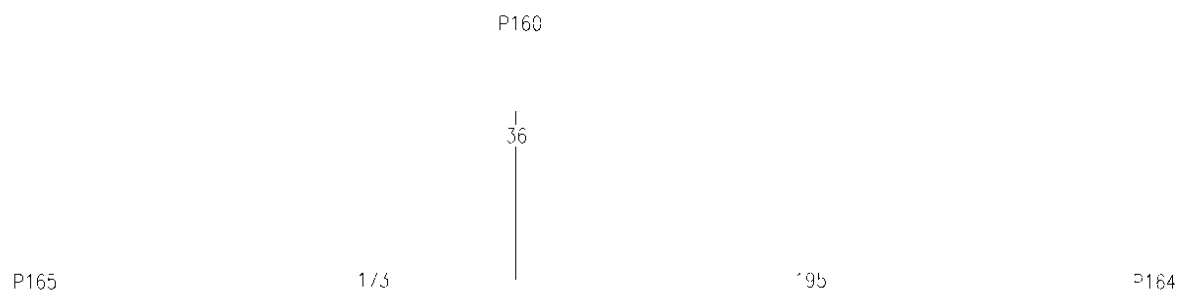


8	31	8448		WIRE, 8 COND., 2X18 & 6X22 AWG, BIFIDEN
7	16	205090-1		SOCKET, 24-20, AMP
6	1	206062-1		BACKSHELL, Sz 17, CPC, AVP
5	1	205838-1		P.UG, 11-8, CPC, AMP
4	12	66103-4		P.N, 24-20 AWG, AMP
3	4	66099-4		P.N, 18-16 AWG, AMP
2	1	206070-1		BACKSHELL, Sz 17, CPC, AVP
1	1	206036-3		RECEPTACLE, 17-16, CPC, AVP
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL
PARTS LIST				

Detail 27 - 10 Speedbrakes Wing Wiring (LB53345007-1) (1/2)

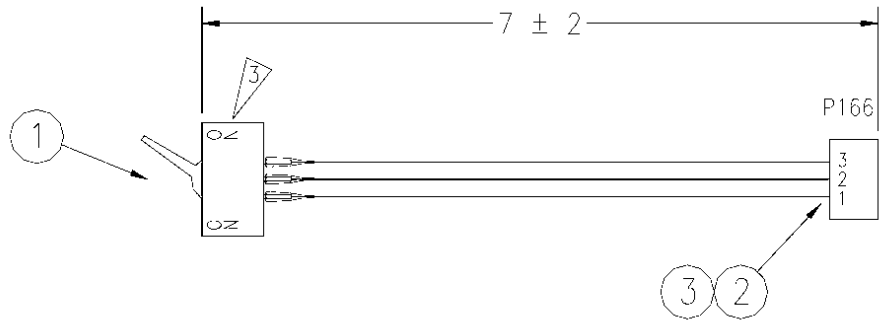
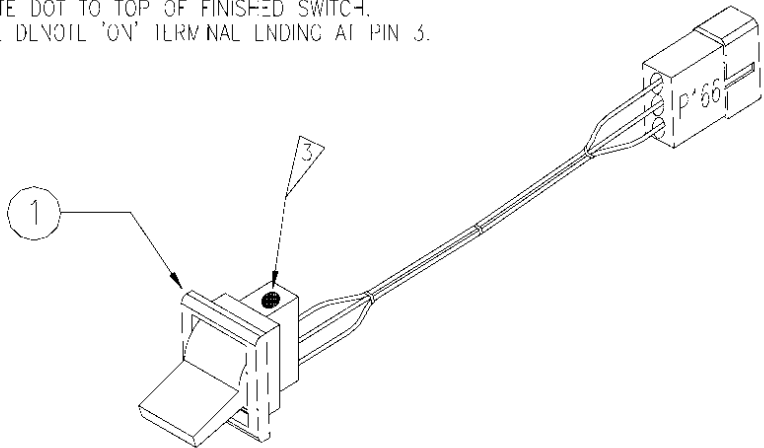
NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. THIS HARNESS IS BUNDLED WITH THE WING HARNESS.

**Detail 27 - 10 Speedbrakes Wing Wiring (2/2)**

NOTES:

- 1. NOT USED.
- 2. SOLDER WIRES TO SWITCH TERMINALS AND COVER EACH WITH HEAT SHRINK.
- 3. ADD WHITE DOT TO TOP OF FINISHED SWITCH. DOT WILL DENOTE 'ON' TERMINAL ENDING AT PIN 3.

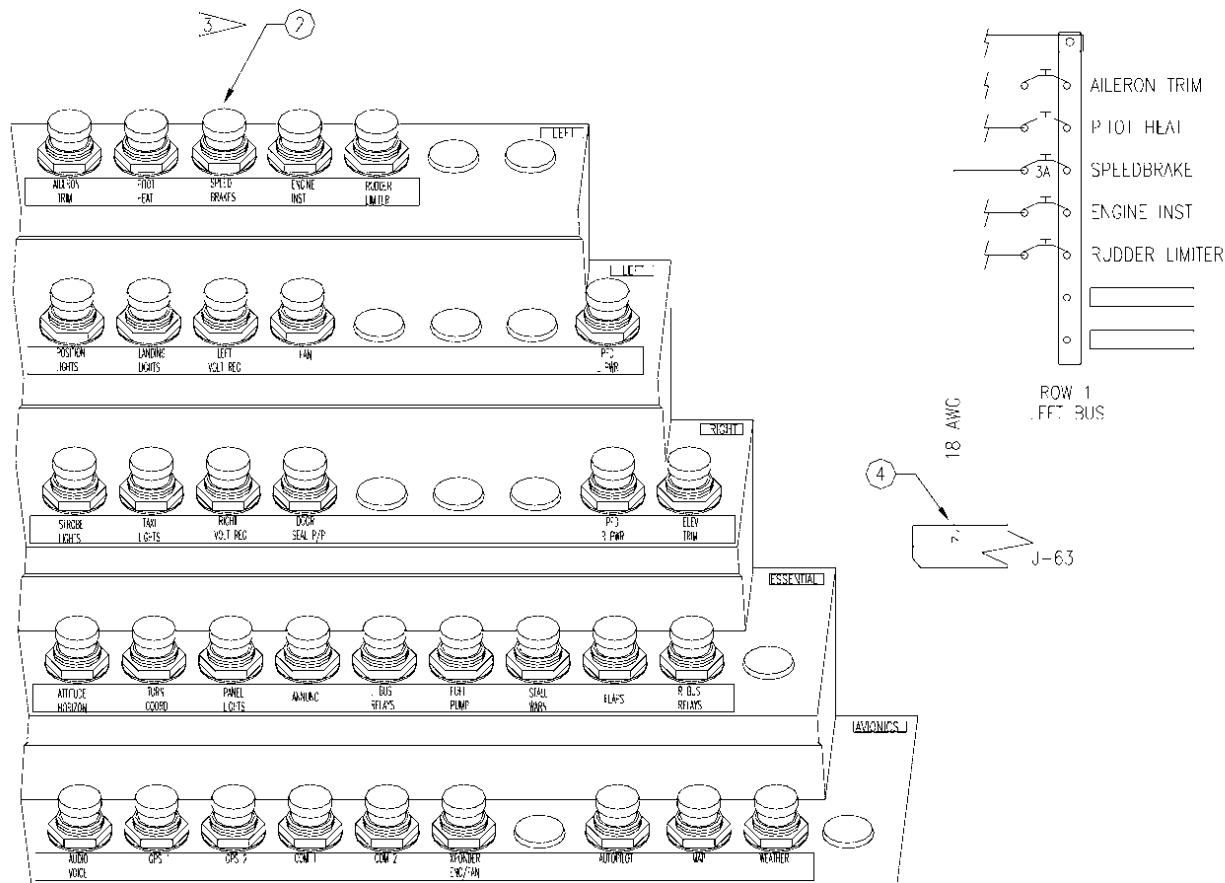


4	2'	M22/59/16-22-9	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., WHITE
3	3	7940-7-	PIN, 24-18 AWG, AMP
2	1	770331-1	PLUG, 3 PIN, FREE HANGING, AMP
1	1	7101J61ZQE22	SWITCH, LEVER, C&K
ITEM	QTY	PART NUMBER	REV. DESCRIPTION or MATERIAL

PARTS LIST

Detail 27 - 11 Speedbrakes Switch Assembly Wiring (LB53345003-1) (1/1)

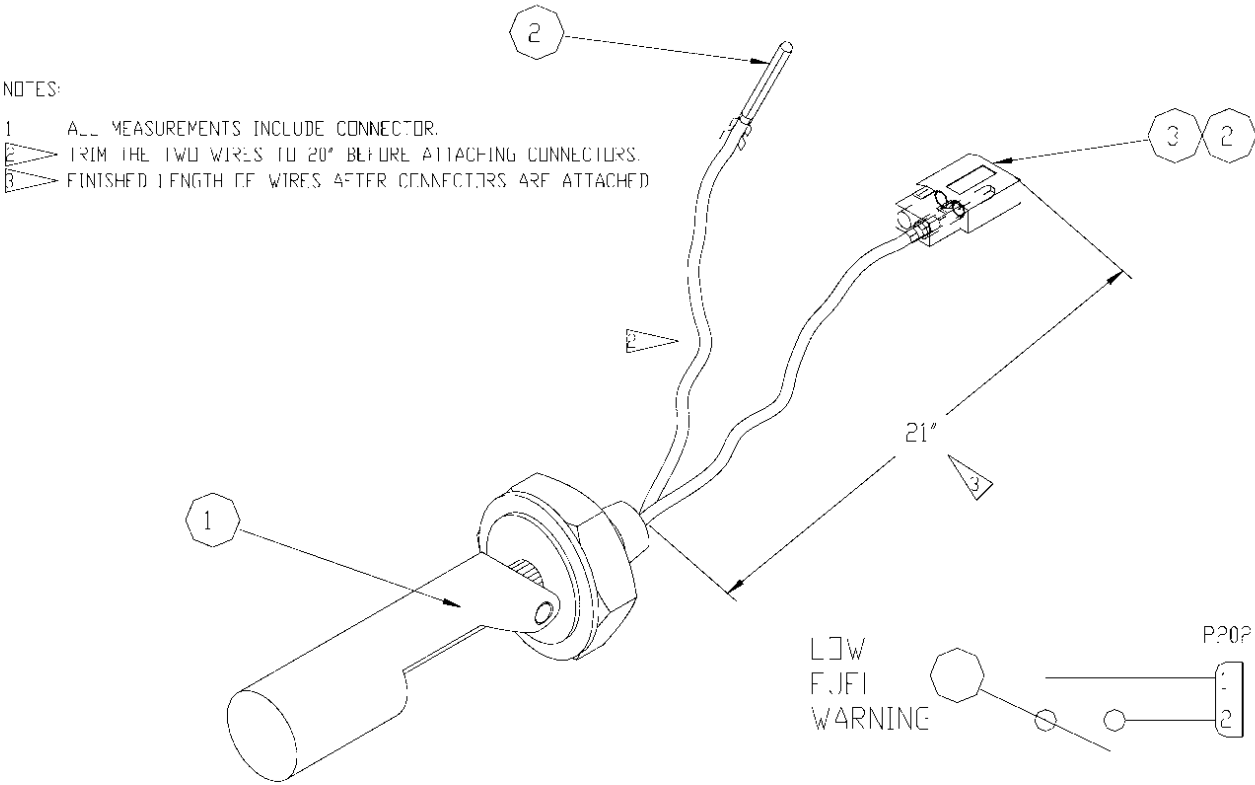
- NOTES:
- 1. SPEEDS BRAKES ARE AN OPTION IN THE MODEL 350 AND 400 AIRCRAFT.
 - 2. USE DETERMINED PWR AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.
3. INSTALL CIRCUIT BREAKER AND WIRING WITH ALL OTHERS.



4	1	66101-4	SOCKFT, 18-16 AWG, AMP
3	2	M22753/16-18-9	WIRE, ELECTRIC, MED. WT., 18 ga., WHITE
2	1	7227 2 3	CIRCUIT BREAKER, 3 AMP, KLIXON
1	1	36152	TERMINAL RING, 22-16 AWG, #8 STUD, RED
PART NUMBER			DESCRIPTION or MATERIAL
PARTS LIST			

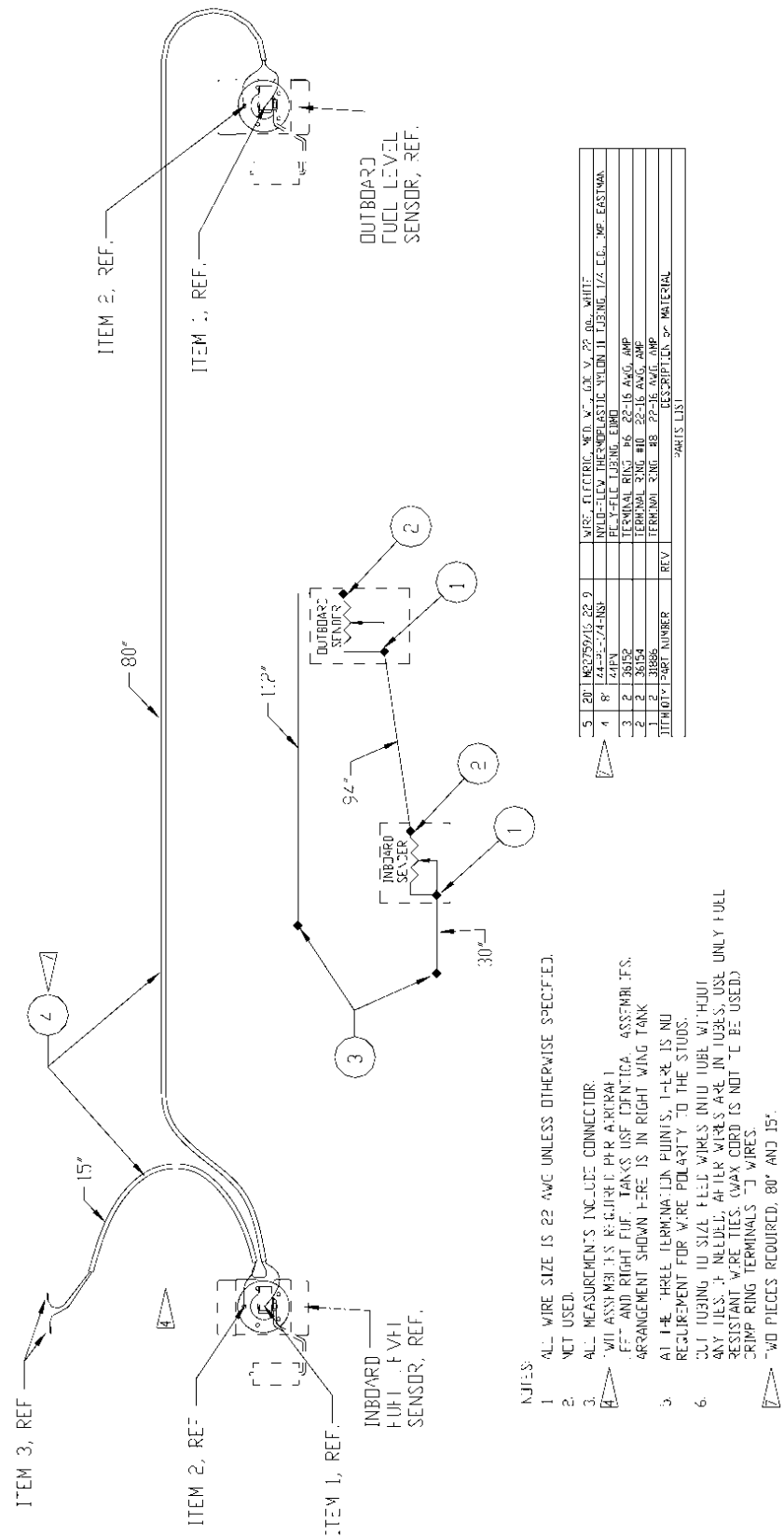
Detail 27 - 12 Speedbrakes Circuit Breaker (LB53345009-1) (1/1)

- End of Chapter -

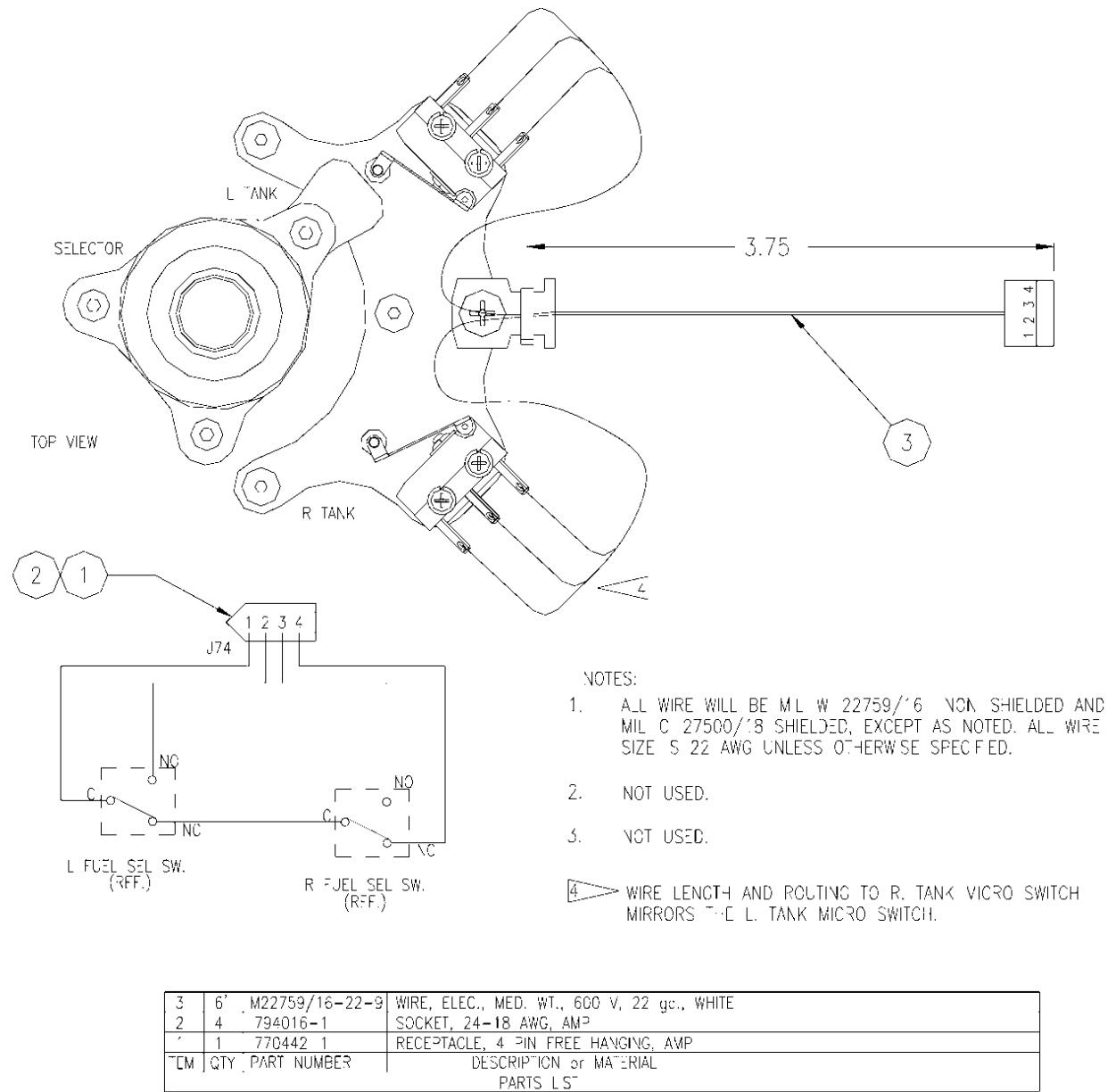


3	1	770340-1	PLUG, 2 PIN, FREE HANGING, 4MP
2	2	794017-1	PIN 24-18 AWG, AMP
1	1	165573	LOW FUEL LEVEL (WARNING) SWITCH, GMS
ITEM QTY	PART NUMBER	DESCRIPTION or MATERIAL	
PARTS LIST			

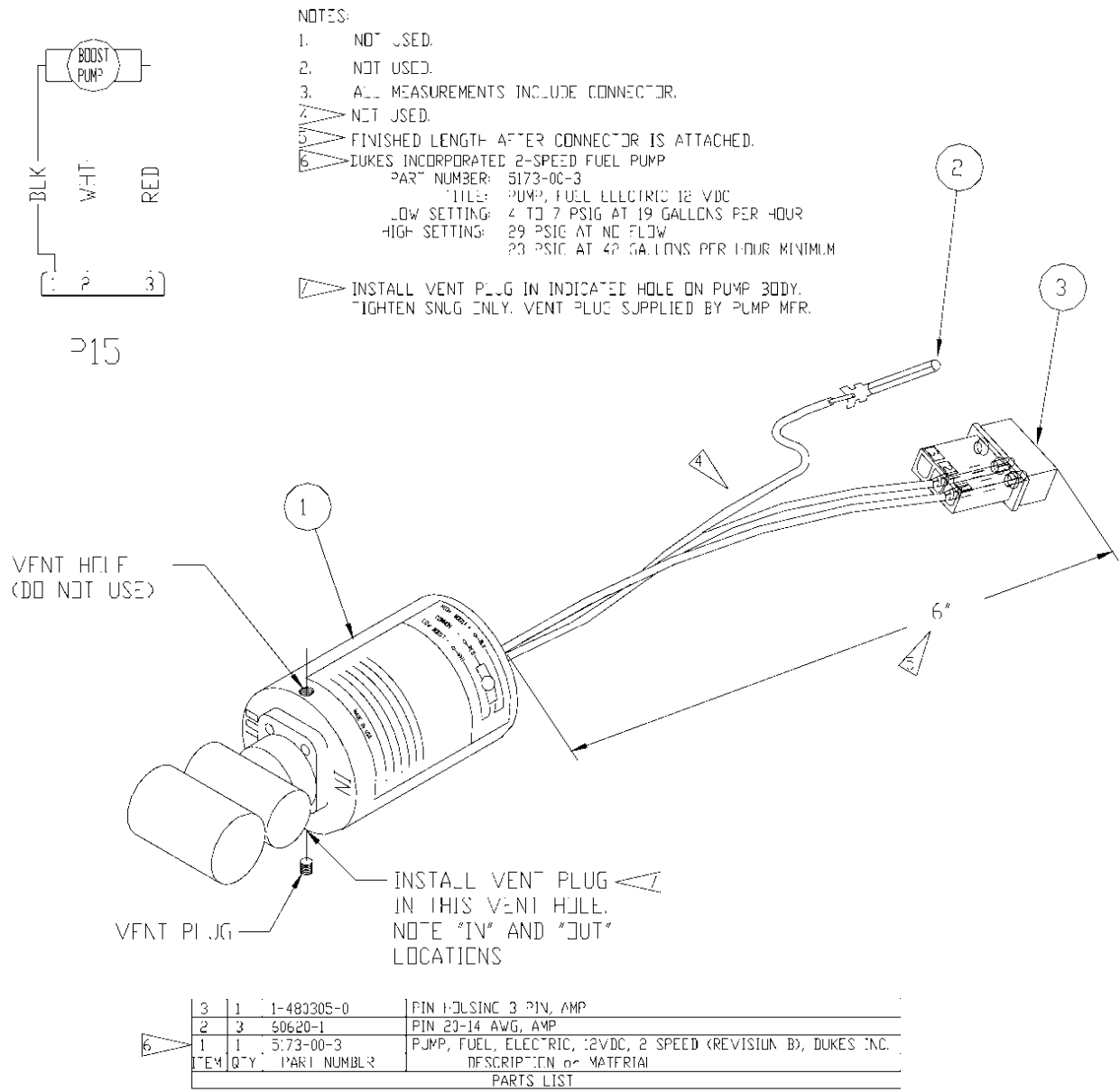
Detail 28 - 1 Low Fuel Level Switch and Wiring (LA57280045B1) (1/1)



Detail 28 - 2 Fuel Sensors Wiring Assembly (LA57315000D1) (1/1)



Detail 28 - 3 Fuel Selector Wiring (LA57282019D) (1/1)

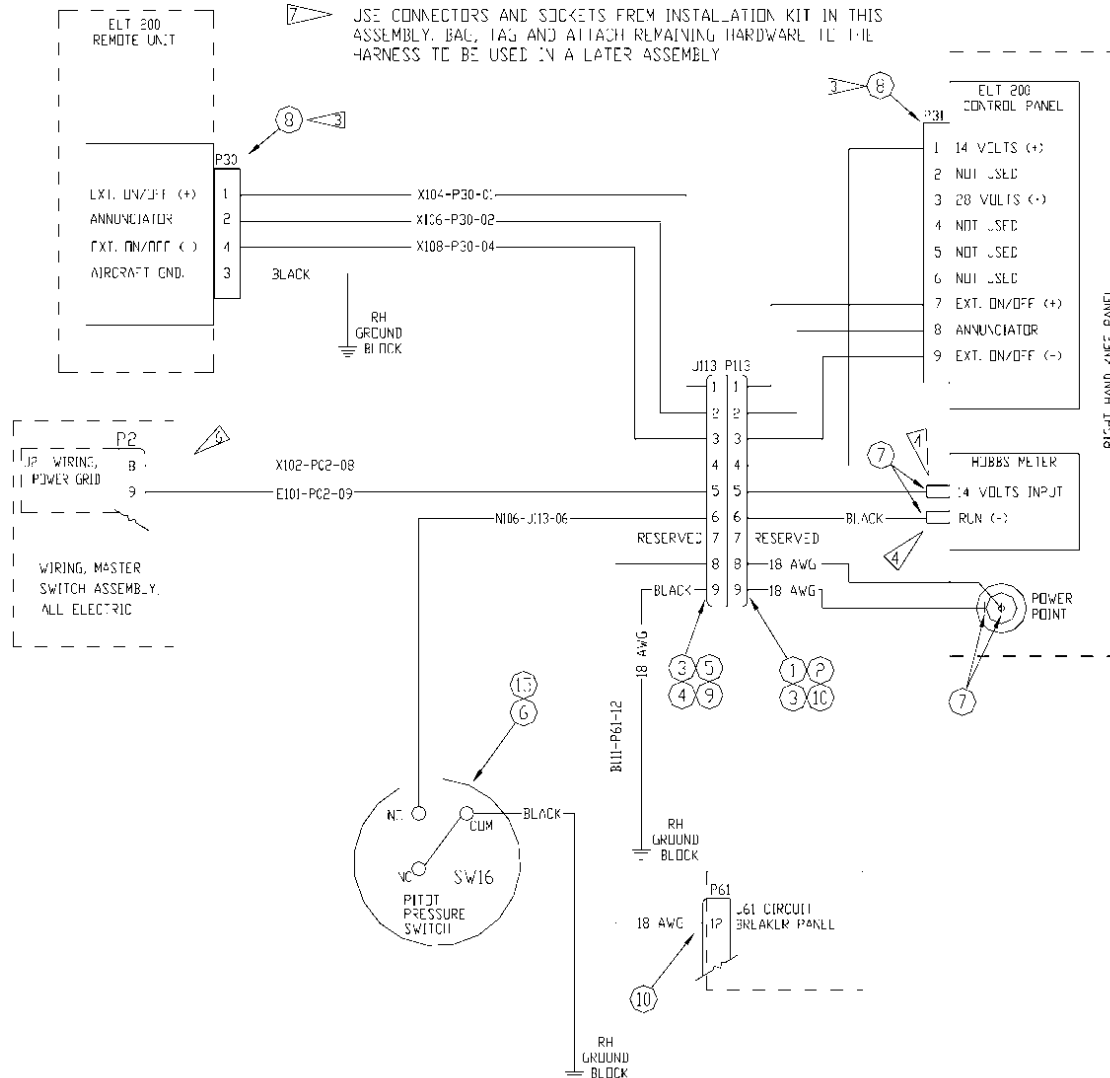


Detail 28 - 4 Fuel Boost Pump (LA57283009E1) (1/1)

- End of Chapter -

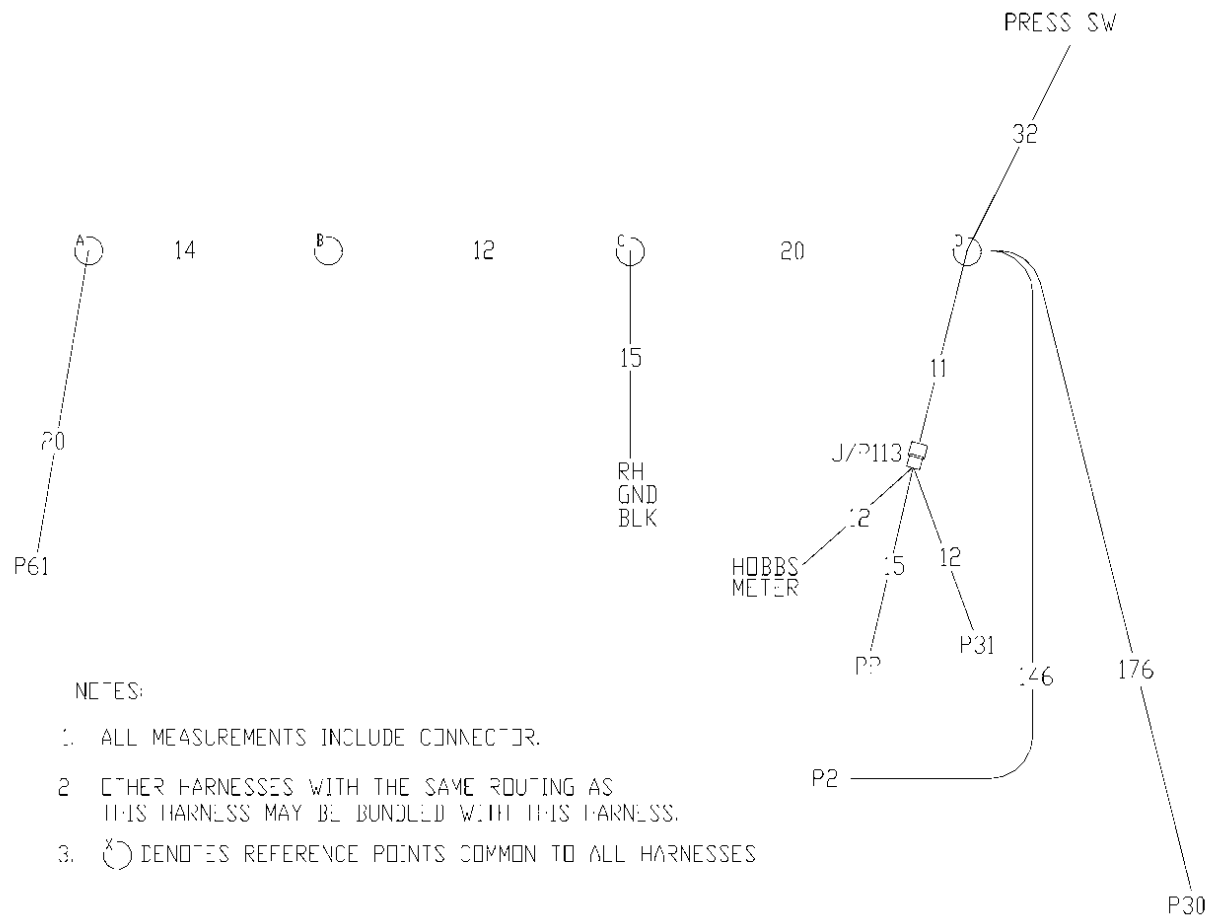
NOTES:

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE NOTED.
2. [THIS ENCLOSURE SHOWS REFERENCE TO ASSOCIATED DWG.]
3. USE WIRING INSTALLATION KIT HERE, PART OF ITEM 8; ELT UNIT AND ANTENNA, ELT CONTROL PANEL, INSTALLED INTO RIGHT SIDE KNEE BOOSTER.
4. COVER EXPOSED METAL PORTION OF TERMINALS WITH HEAT SHRINK.
5. NOT USED.
6. LEAVE WIRES UNTERMINATED HERE. WIRES WILL BE TRIMMED TO FIT AND TERMINATED IN A LATER ASSEMBLY.
7. USE CONNECTORS AND SOCKETS FROM INSTALLATION KIT IN THIS ASSEMBLY. BAG, TAG AND ATTACH REMAINING HARDWARE TO THE HARNESS TO BE USED IN A LATER ASSEMBLY.

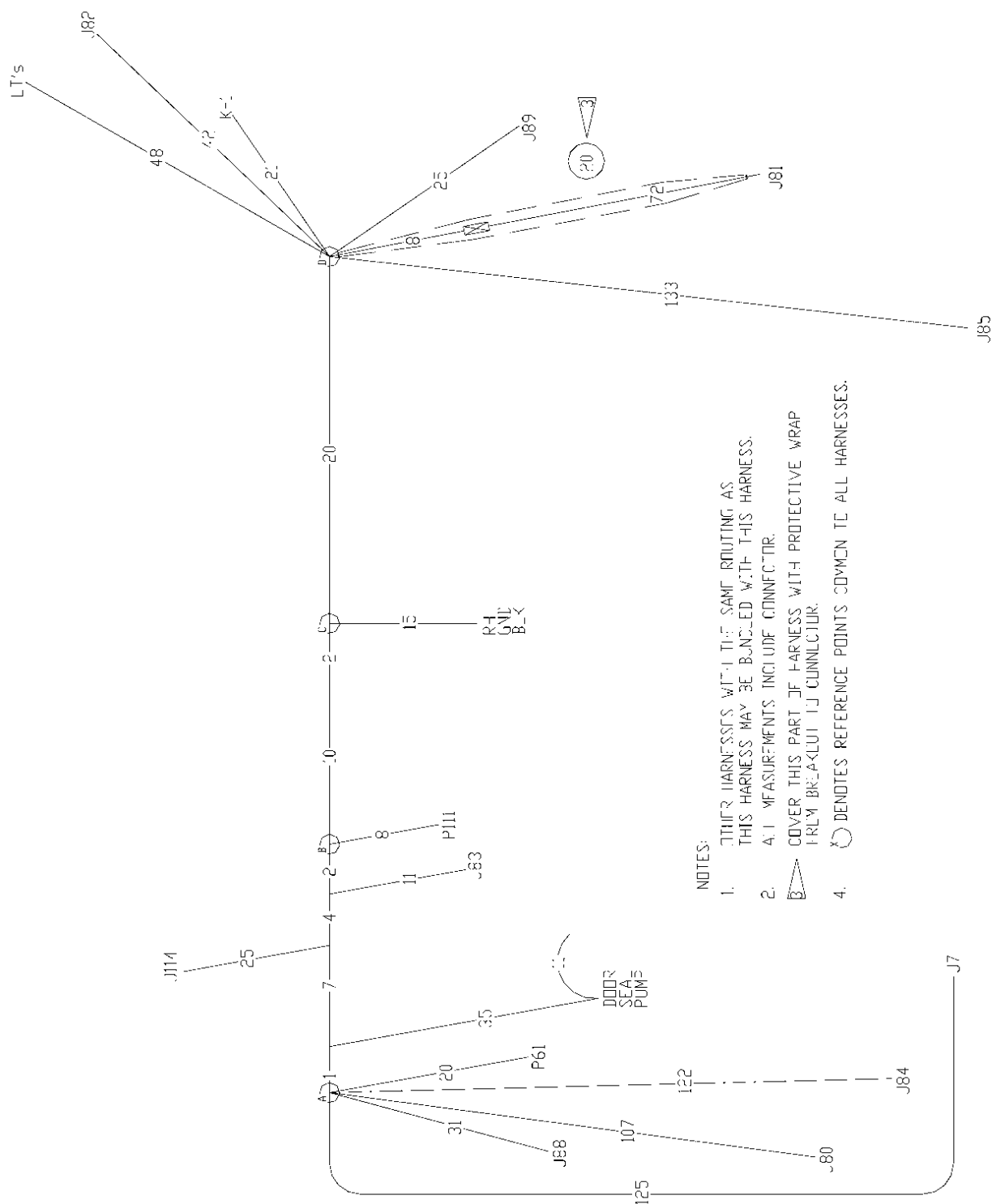


15	1	9362-02C	PRESSURE SWITCH, PSF 103 SERIES, 2" HEC, FIXED, WORLD MAGNETICS	
14	75	M22759/16-22-9	WIRE, ELECTRIC, MEDIUM WT., 620 V, 22 ga., WHITE	
13	18	M22759/16-22-0	WIRE, ELECTRIC, MEDIUM WT., 620 V, 22 ga., BLACK	
12	10	M22759/16-18-5	WIRE, ELECTRIC, MEDIUM WT., 620 V, 18 ga., WHITE	
11	5	M22759/16-18-0	WIRE, ELECTRIC, MEDIUM WT., 620 V, 18 ga., BLACK	
10	3	66099-4	PIN, 18-16 AWG, AMP	
9	2	6601-4	SOCKET, 18-16 AWG, AMP	
8		455-0203	INSTALLATION KIT, ELT 200, ARTEX	
7	5	640903-1	RECEPTACLE, 25C, RET, 22-18 AWG, AMP	
6	3	64092-1	CONNECTOR, QUICK, 18-22-16 AWG	
5	6	66105-4	SOCKET, 24-20 AWG, AMP	
4	1	236708-1	PIN, 13-9 PIN CPC SIZE 11, AMP	
3	2	236966-1	BACKSHELL, Size 13 CPC, AMP	
2	6	6603-4	PIN, 24-20 AWG, AMP	
1	1	236705-2	RECEPTACLE, 13-9 PIN CPC, HOLE HANGING, AMP	
ITEM QTY		PART NUMBER	REV.	DESCRIPTION or MATERIAL
PARTS LIST				

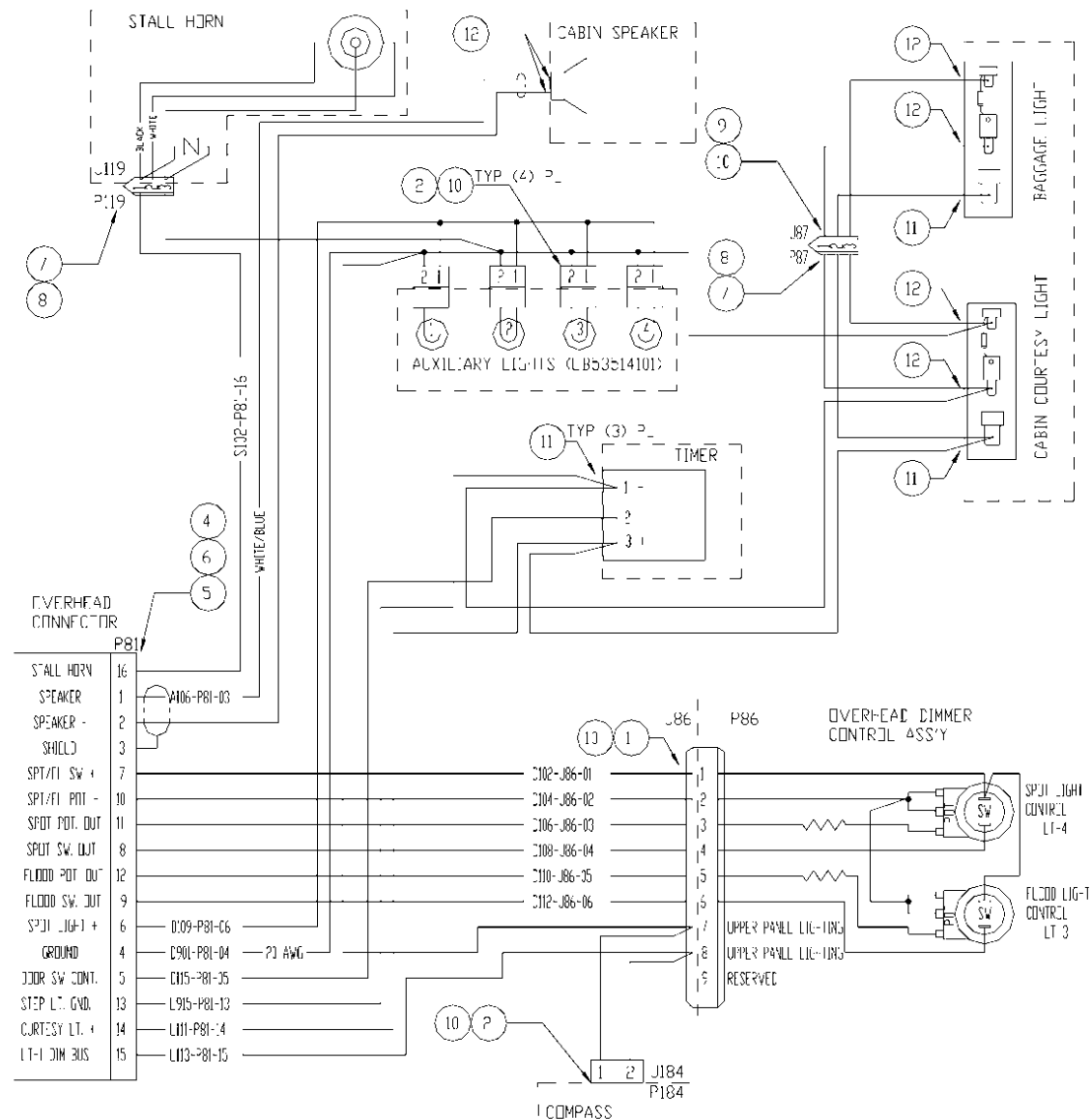
Detail 31 - 1 ELT and HOBBS Wiring (LC53513100A) (1/2)

**Detail 31 - 1 ELT and HOBBS Wiring (2/2)**

- End of Chapter -



Detail 33 - 1 Wiring For Interior Lighting (2/2)

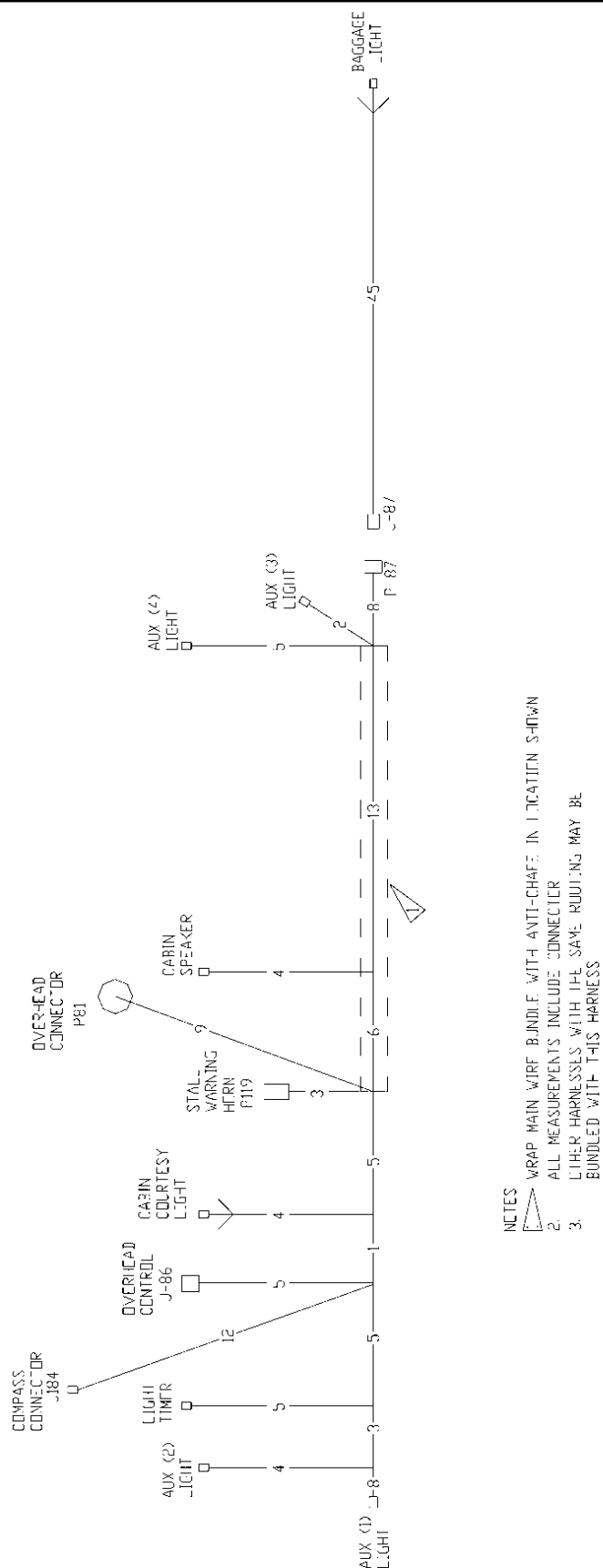


NOTE.

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE NOTED.

16	2"	M2500/18 22 2	CAB. E. ELECTRIC, SHIE. MED. 22 ga., "WD CONDUCTOR
15			NUT LSL
14	5 1/2"	M2759/16 22 5	WIRE, ELECTRIC, MED WT, 500 V. 22 ga. WHITE
13	12"	M2759/16-20-9	WIRE, ELECTRIC, MED WT, 500 V. 22 ga. WHITE
12	6	540917-1	CONNECT. QUICK .187 22-16 AWG, AMP
11	5	540903-1	RECEP. ACLE, 250 RED 22-18 AWG, AMP
10	12	754016-1	SINCEIT, 24-18 AWG, AMP
9	1	770333-1	RECEP. ACLE, 3 PIN FREE -AN/CNG, AMP
8	5	754017-1	PIN 24-18 4WC, AMP
7	2	770331-1	PLUG, HULSING, 3 PIN FREE HAWKING, AMP
6	1	206072-1	3ACSSHELL, SIZE 17, CPC, AMP
5	1	206036-3	NUT, PLACIL, 1/16 PIN CPC FREE HAWKING, AMP
4	16	56103-4	PIN 24-20 1WG, AMP
3			NUT LSL
2	5	770342-1	RECEP. ACLE, 2 PIN, FREE HAWKING, AMP
1	1	770429-1	RECEP. ACLE, 3 PIN FREE HAWKING, AMP
ITEM	QTY	PART NUMBER	REV. DESCRIPTION OR MATERIAL

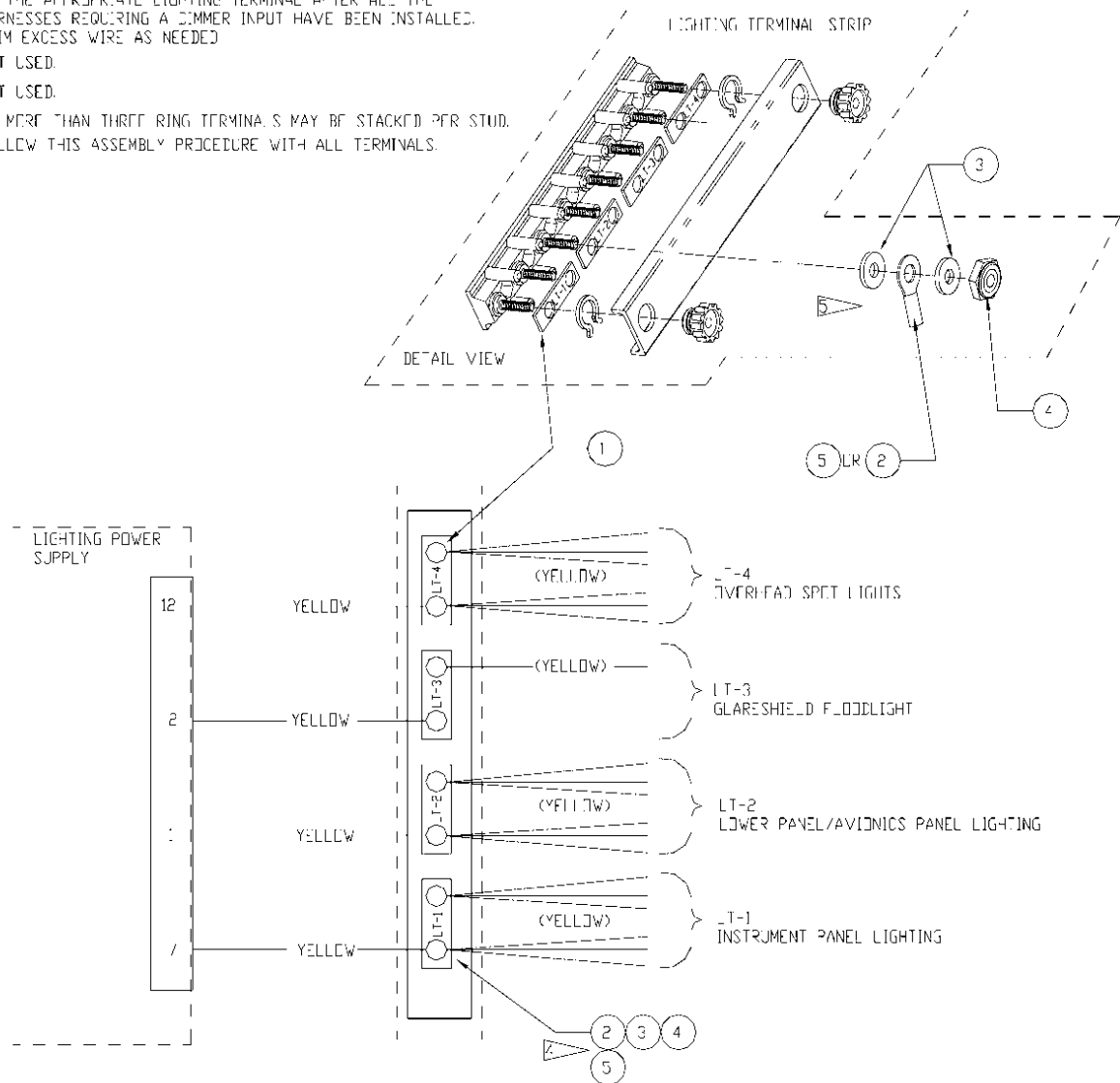
Detail 33 - 2 Overhead Wiring (LB53514100B) (1/2)



Detail 33 - 2 Overhead Wiring (2/2)

NOTES:

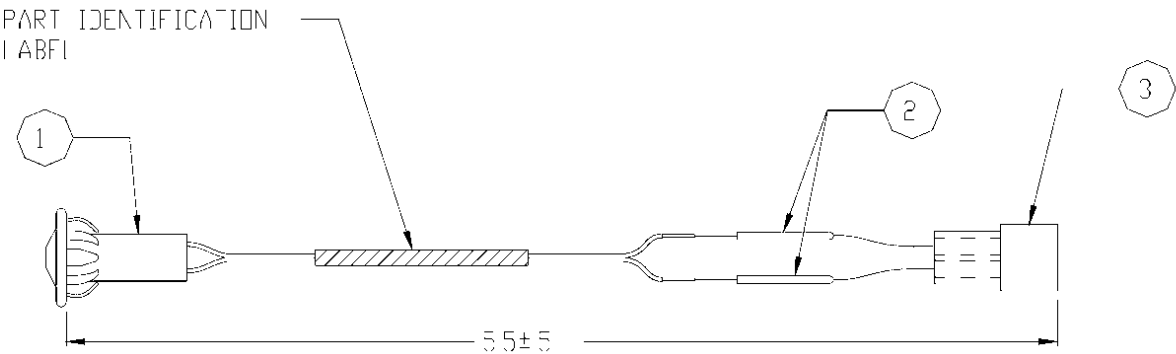
1. TERMINATE YELLOW DIMMER WIRES LABELED LT-1, LT-2, ETC. TO THE APPROPRIATE LIGHTING TERMINAL AFTER ALL THE HARNESSES REQUIRING A DIMMER INPUT HAVE BEEN INSTALLED. TRIM EXCESS WIRE AS NEEDED.
2. NOT USED.
3. NOT USED.
4. NO MORE THAN THREE RING TERMINALS MAY BE STACKED PER STUD.
5. FOLLOW THIS ASSEMBLY PROCEDURE WITH ALL TERMINALS.



5	AR 3658	TERMINAL RING, 16-14 AWG, #6 STUD, BLUE, AMP
4	B MS20364-63PA	NUT, SELF-LOCKING, 1-IN, 250°F, NON-MAGNETIC INSERT, 6-32
3	15 NAS1149N616P	WASHER, THIN #6, (AN950-61)
2	AR 3652	TERMINAL RING, 22-16 AWG, #6 STUD, RED, AMP
1	4 LA53514801	BUSS BAR
ITEM	QTY. PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST		

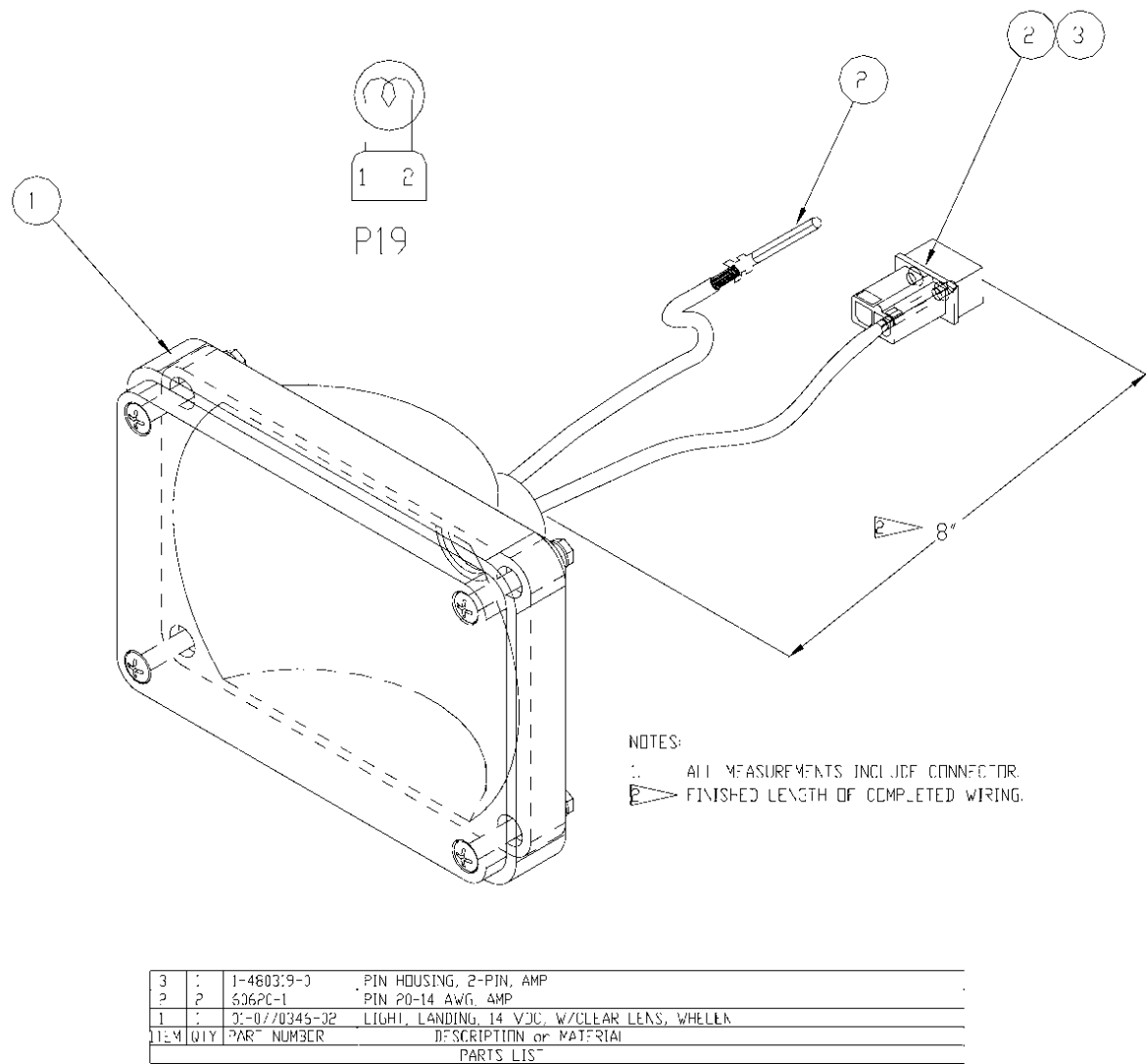
Detail 33 - 3 Wiring for Lighting Terminal Strip (LB53514800-2) (1/1)

- NOTES:
- 1. ALL WIRE WILL BE MIL-W-22759/16 NON-SHIELDED AND MIL-C-27500/18 SHIELDED, EXCEPT AS NOTED. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
 - 2. NOT USED.
 - 3. ALL MEASUREMENTS INCLUDE CONNECTOR.

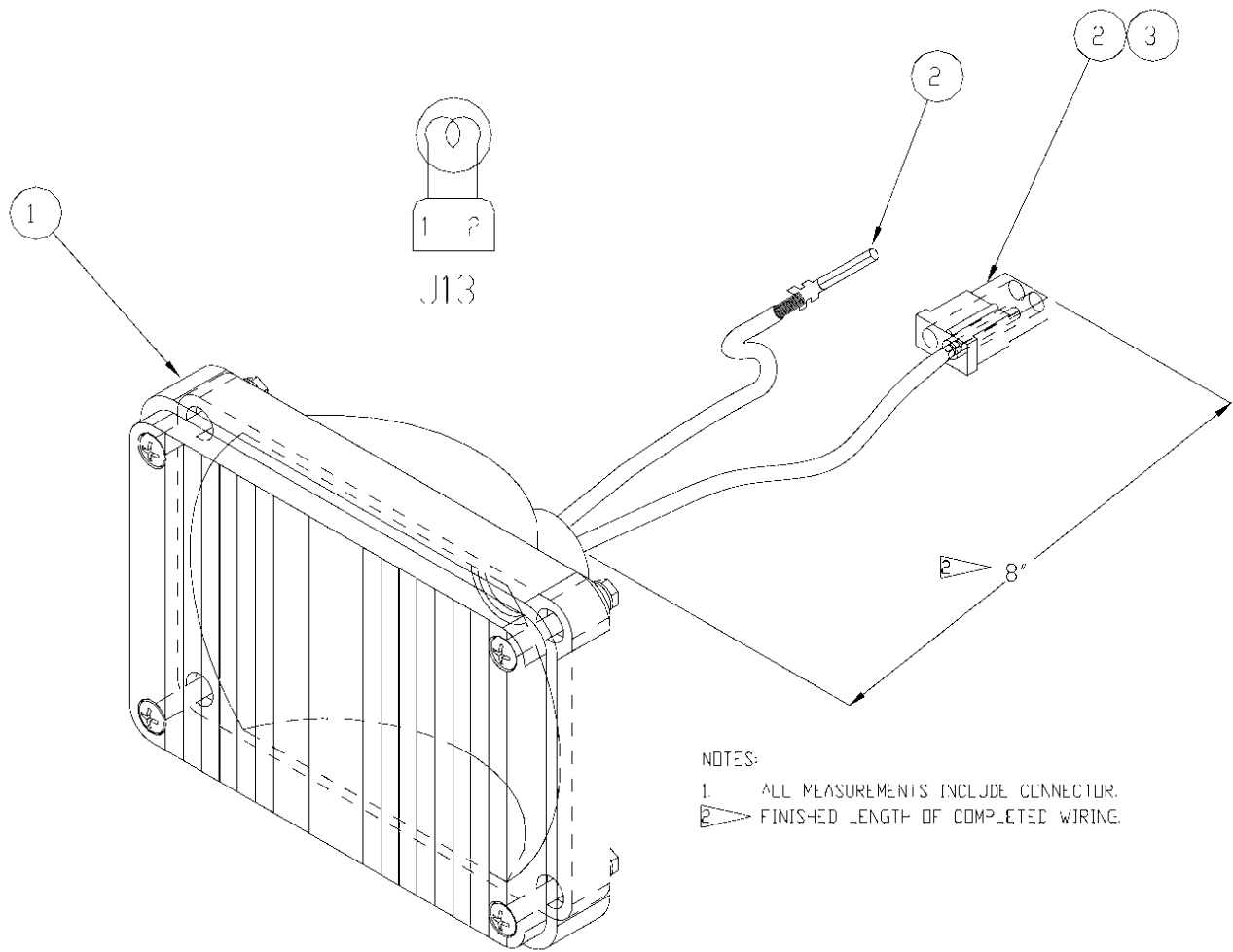


3	1	770340-1	PUG HOUSING, 2-PIN, FREE HANGING	AMP
2	2	794017-	PIN, 24-18 AWG	AMP
1	1	2990P4-12V	INCANDESCENT INDICATOR LIGHT, 1/2" MOUNTING HOLE, WHITE	IDI
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL	REFERENCE
PARTS LIST				

Detail 33 - 4 Step Light (LA53570005B) (1/1)

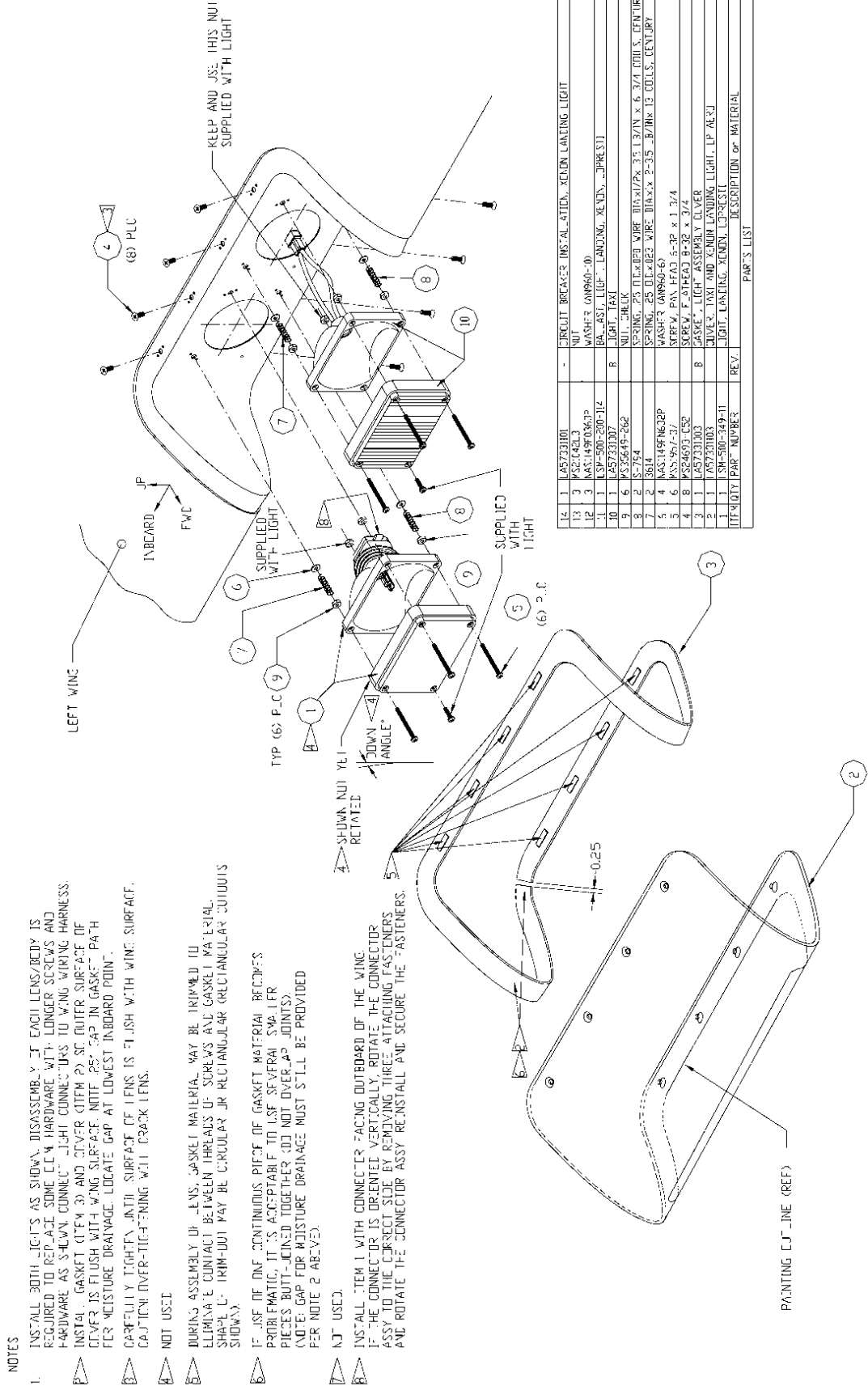


Detail 33 - 5 Whelen Landing Light and Wiring (LA57331005B) (1/1)

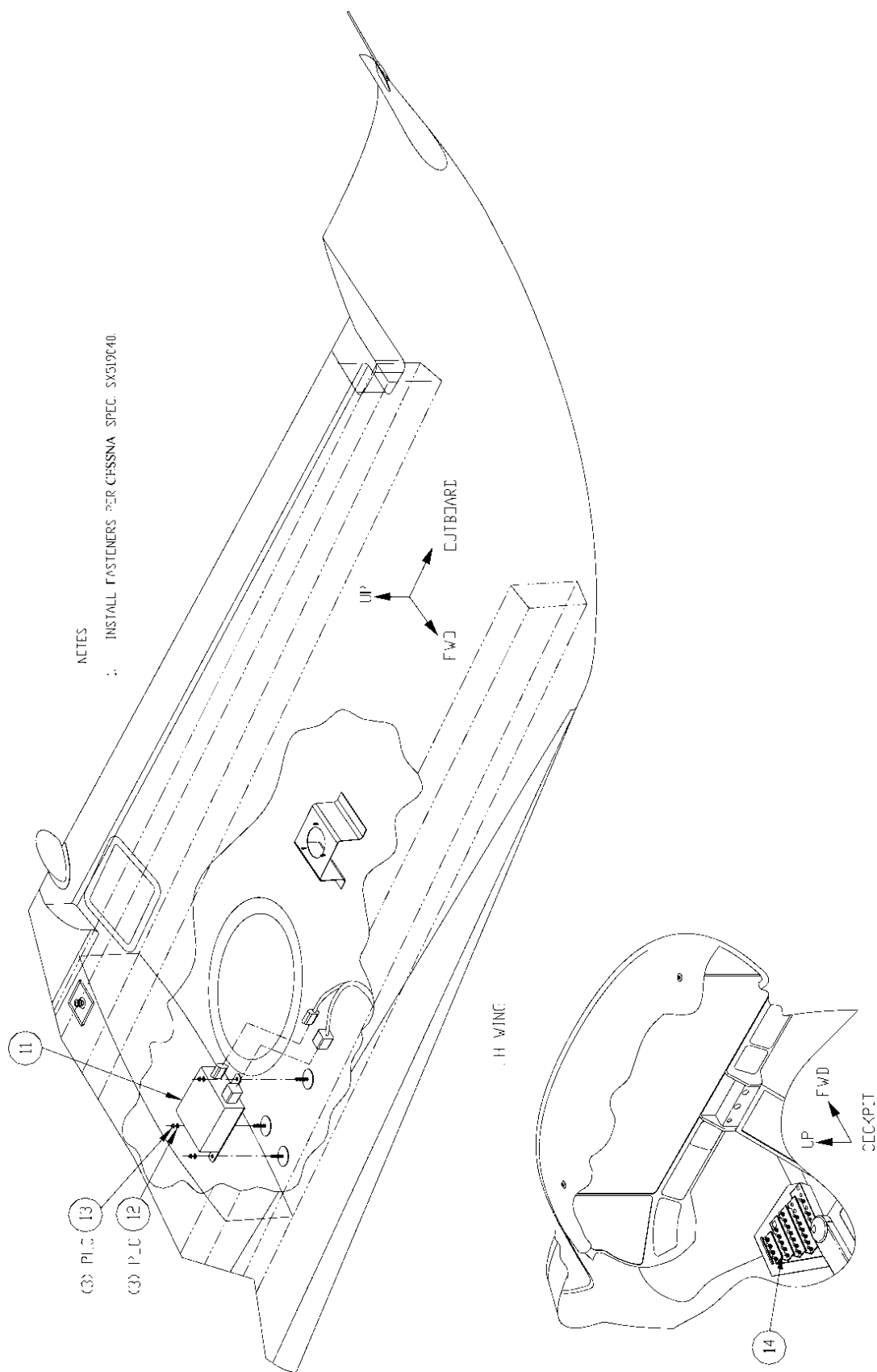


3	1	1-480318-2	SOCKET HOUSING, 2 PIN, AMP
2	2	50619-1	SOCKET 20-14 AWG, AMP
1	1	0770346-04	LIGHT, TAXI, 14 VDC, W/ OPTIC LLNS, WHELEN
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

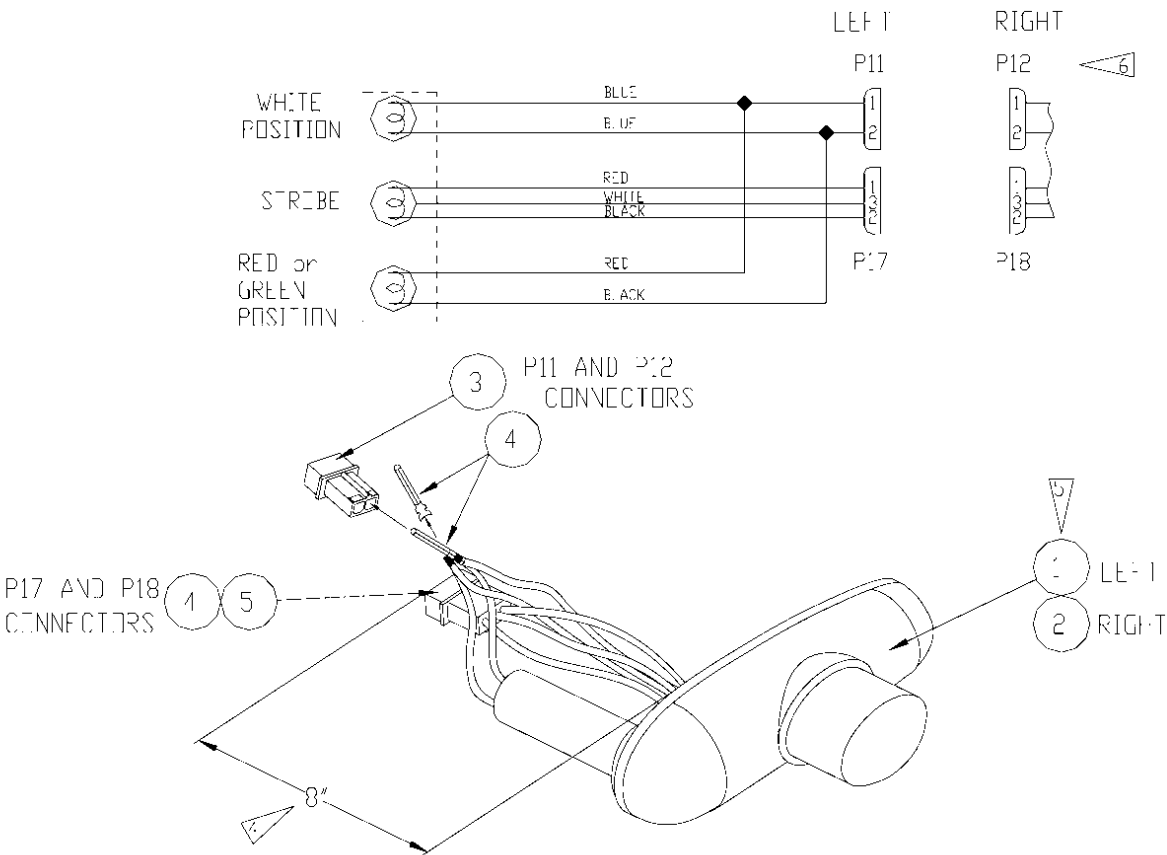
Detail 33 - 6 Whelen Taxi Light and Wiring (LA57331007B) (1/1)



Detail 33 - 7 Xenon Landing and Taxi Light Assembly (LA57331100A1) (1/2)



Detail 33 - 7 Xenon Landing and Taxi Light Assembly (2/2)



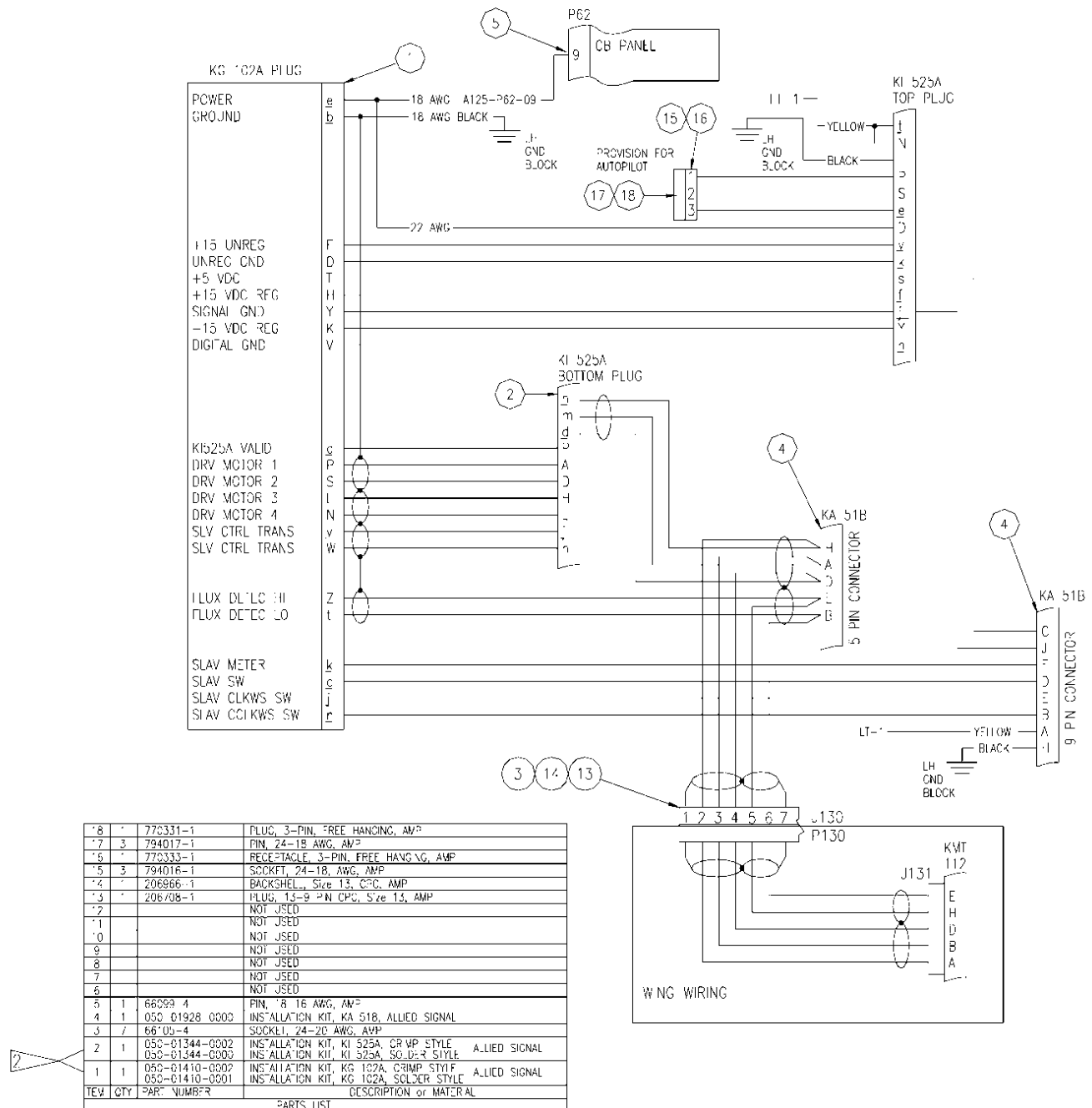
- NOTES:
- 1. NOT USED.
 - 2. NOT USED.
 - 3. ALL MEASUREMENTS INCLUDE CONNECTOR.
 - 4. CRIMP CONNECTORS TO LONGEST LENGTH FROM VENDOR OR TRIM TO CREATE A PIGTAIL NOT TO EXCEED 8".
 - 5. LEFT POSITION LIGHT ASSY AND RIGHT POSITION LIGHT ASSY ARE IDENTICAL EXCEPT FOR LENS COVERS.
 - 6. WIRING FOR LEFT POSITION LIGHT ASSY AND RIGHT POSITION LIGHT ASSY IS IDENTICAL EXCEPT FOR CONNECTOR LABELS, AS SHOWN

	LEFT	RIGHT		
5	1	1	1-480305-0	PIN HOUSING, 3 PIN, AYP
4	5	5	60620-1	PIN 20-14 AWG, AMP
3	1	1	1-480319-0	PIN HOUSING, 3 PIN, AYP
2	1	1	A600PG-14	WING TIP STRIBE/POSITION LIGHT ASSEMBLY (GREEN), WHEEL
1	1	1	A600PR-14	WING TIP STRIBE/POSITION LIGHT ASSEMBLY (RED), WHEEL
ITEM	QTY	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST				

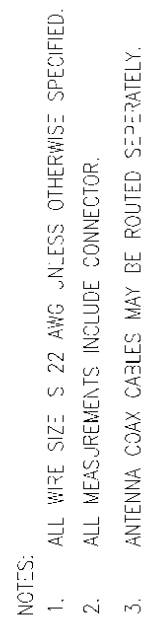
Detail 33 - 8 Position Light and Wiring (LA57332003B) (1/1)

NOTES:

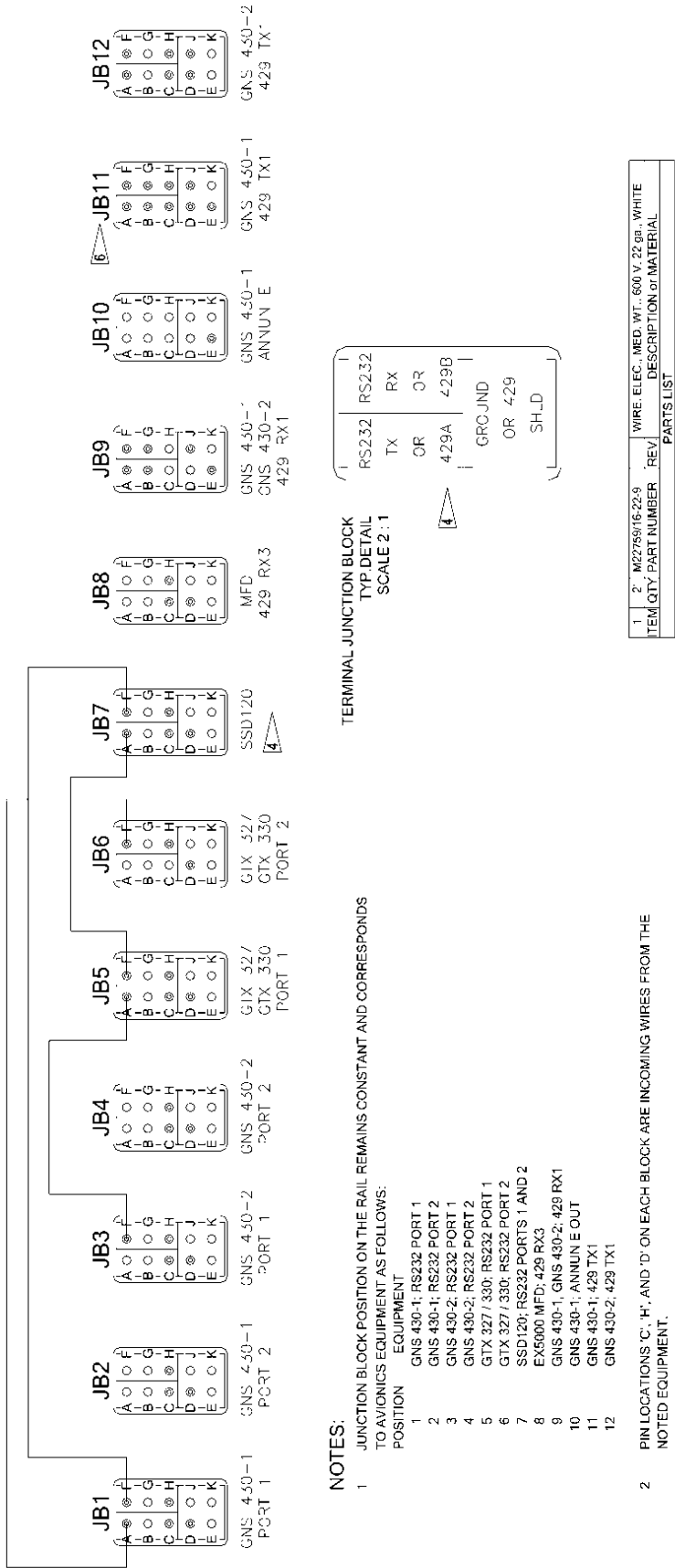
1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2. CRIMP STYLE CONNECTORS, REF. P/N X-002 IS THE PREFERRED OPTION.
3. THIS HARNESS WILL BE USED WITH THE GARMIN RADIO PACKAGE OPTION. USE DETERMINED PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.



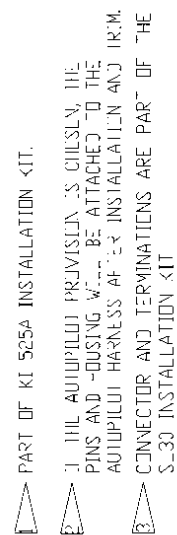
Detail 34 - 1 Horizontal Situation Indicator (HSI) (Garmin) (LB53342203-) (1/2)



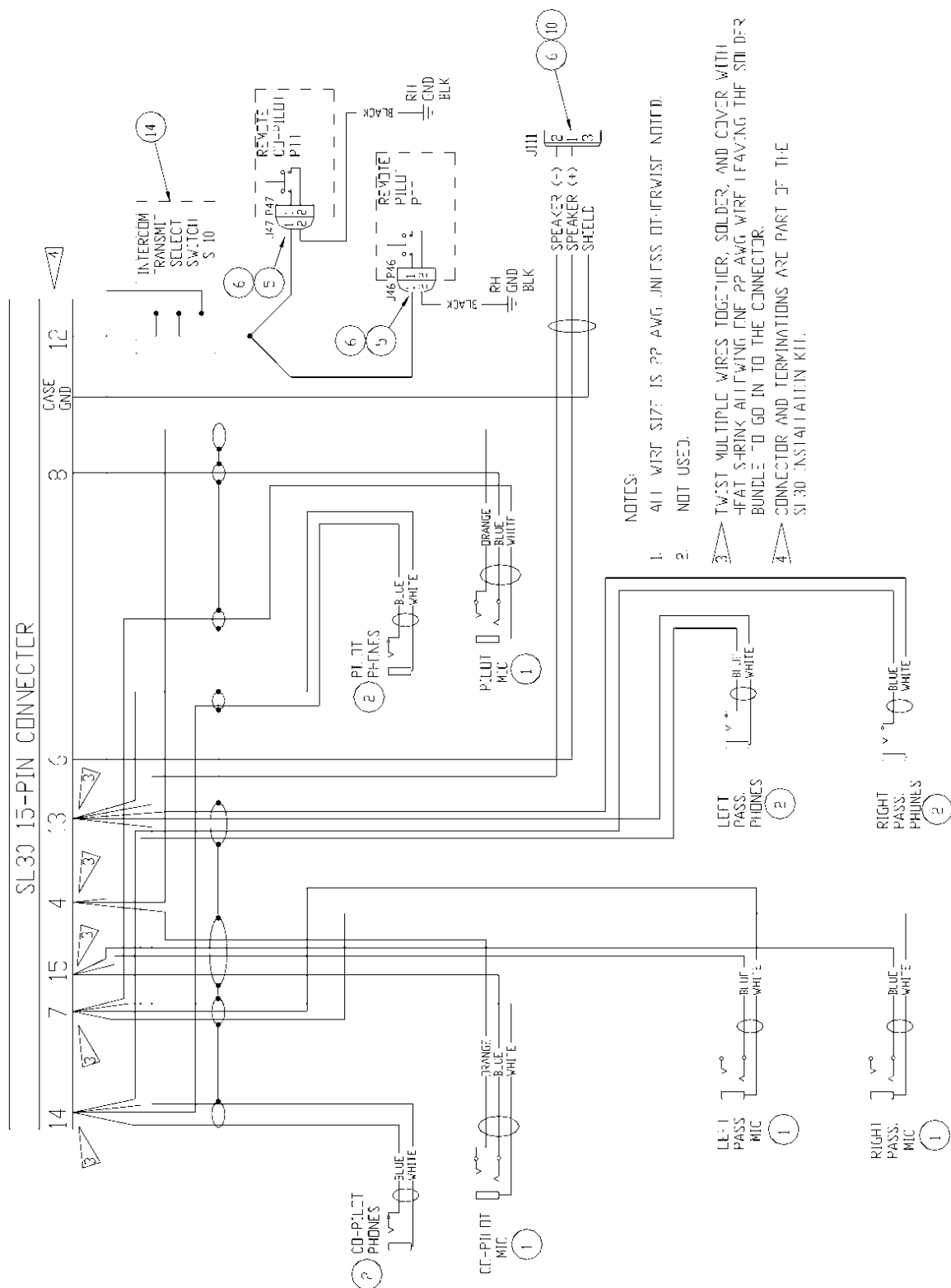
Detail 34 - 1 Horizontal Situation Indicator (HSI) (Garmin) (2/2)



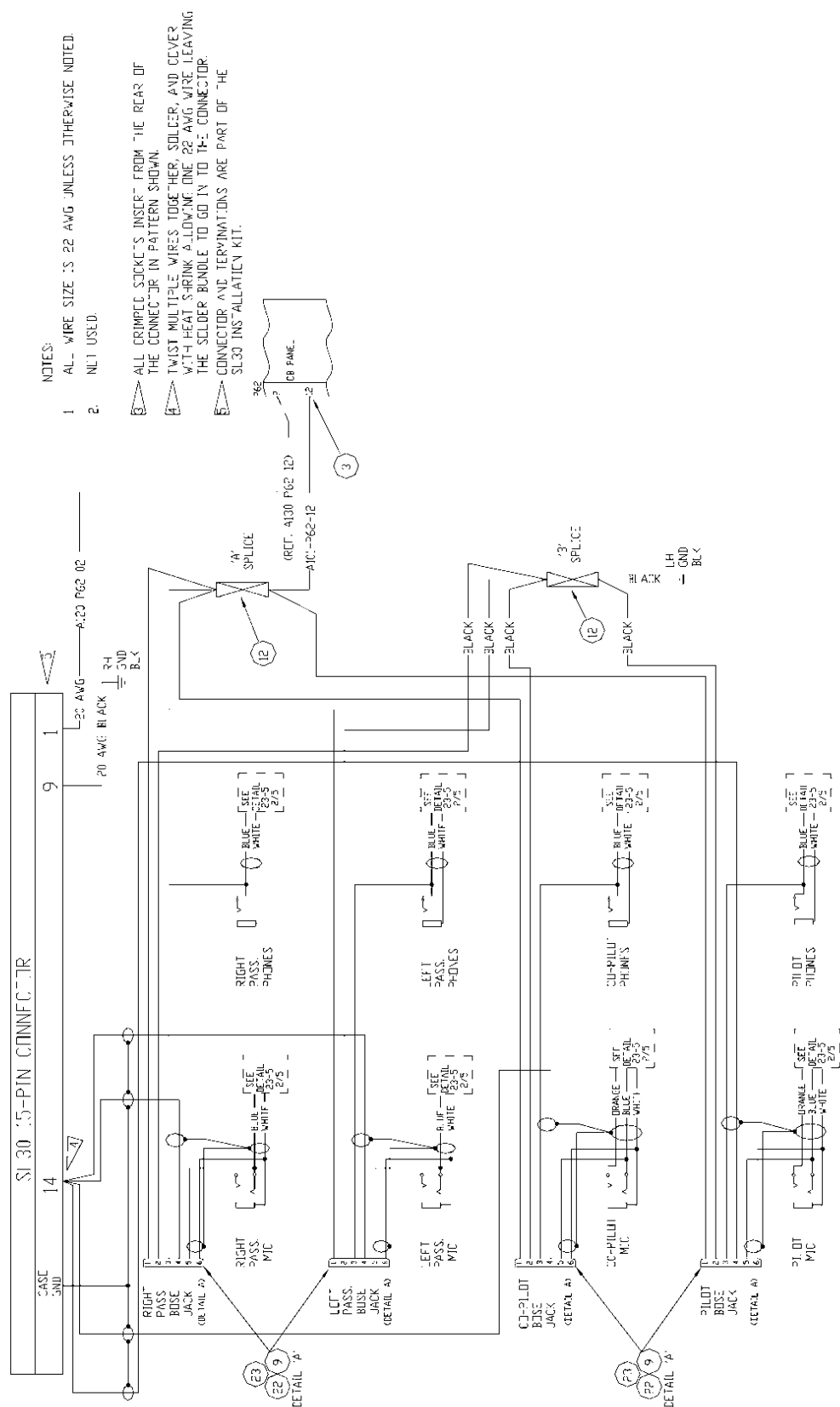
Detail 34 - 2 Terminal Junction Blocks Wiring (Garmin) (LB53343503A) (1/1)



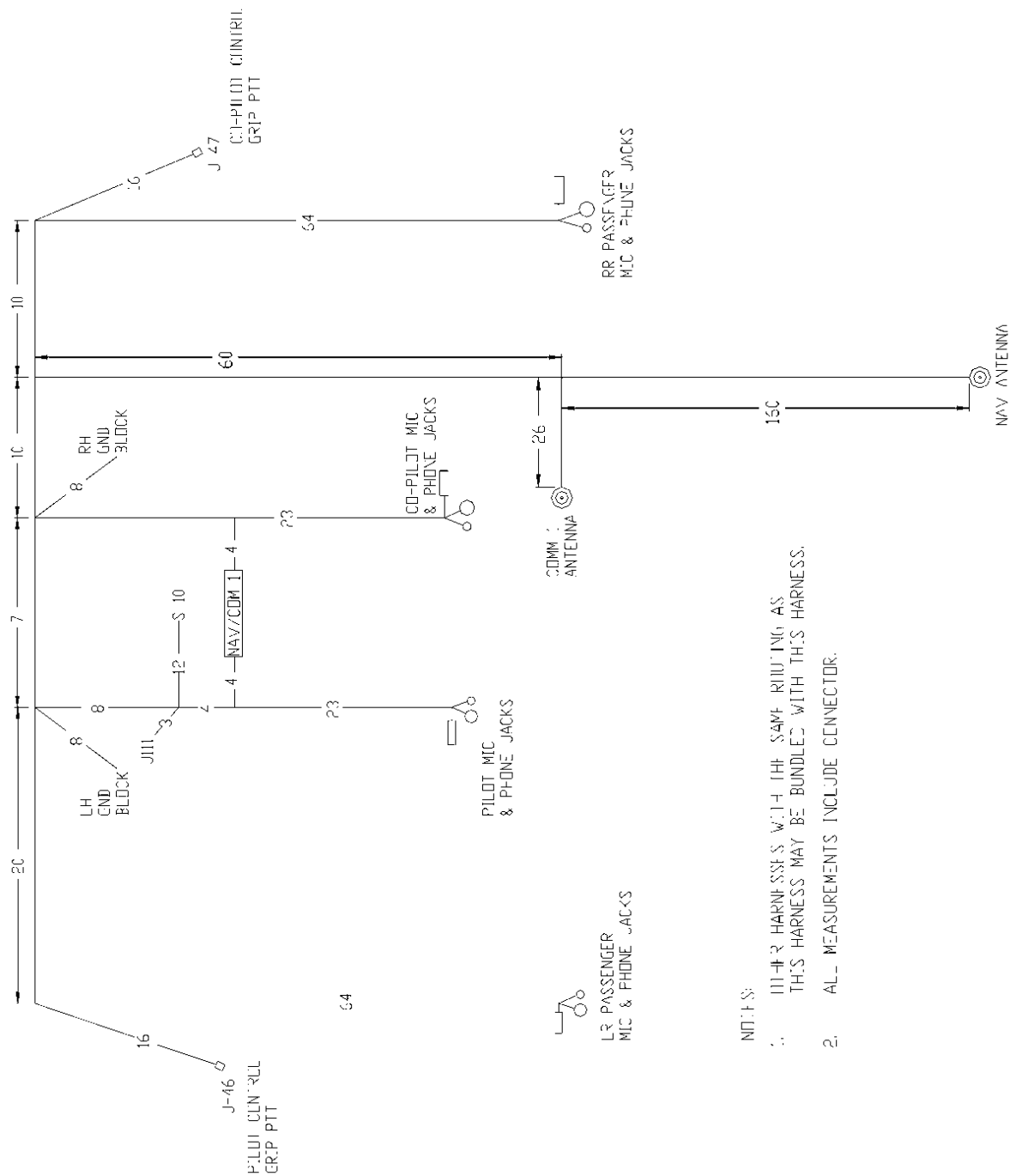
Detail 34 - 3 NAV/COM SL30 Basic Package Wiring (LA53344411-) (1/5)



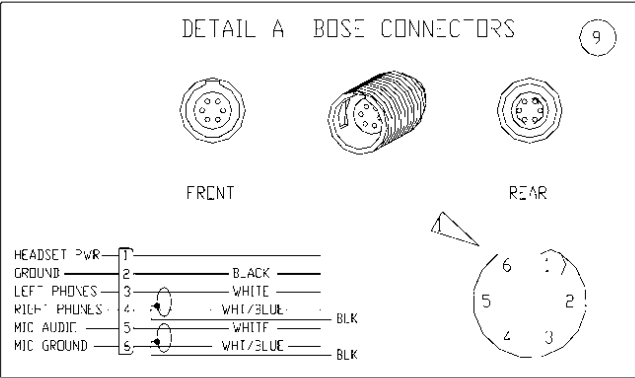
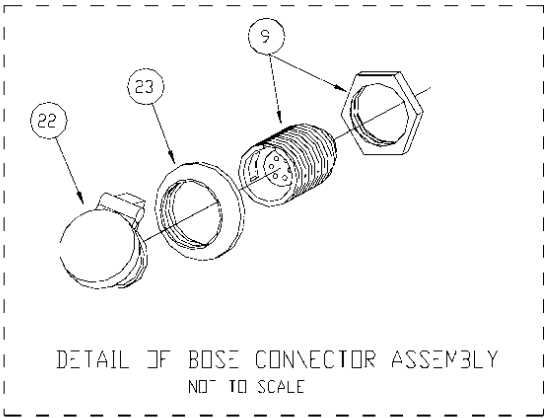
Detail 34 - 3 NAV/COM SL30 Basic Package Wiring (2/5)



Detail 34 - 3 NAV/COM SL30 Basic Package Wiring (3/5)



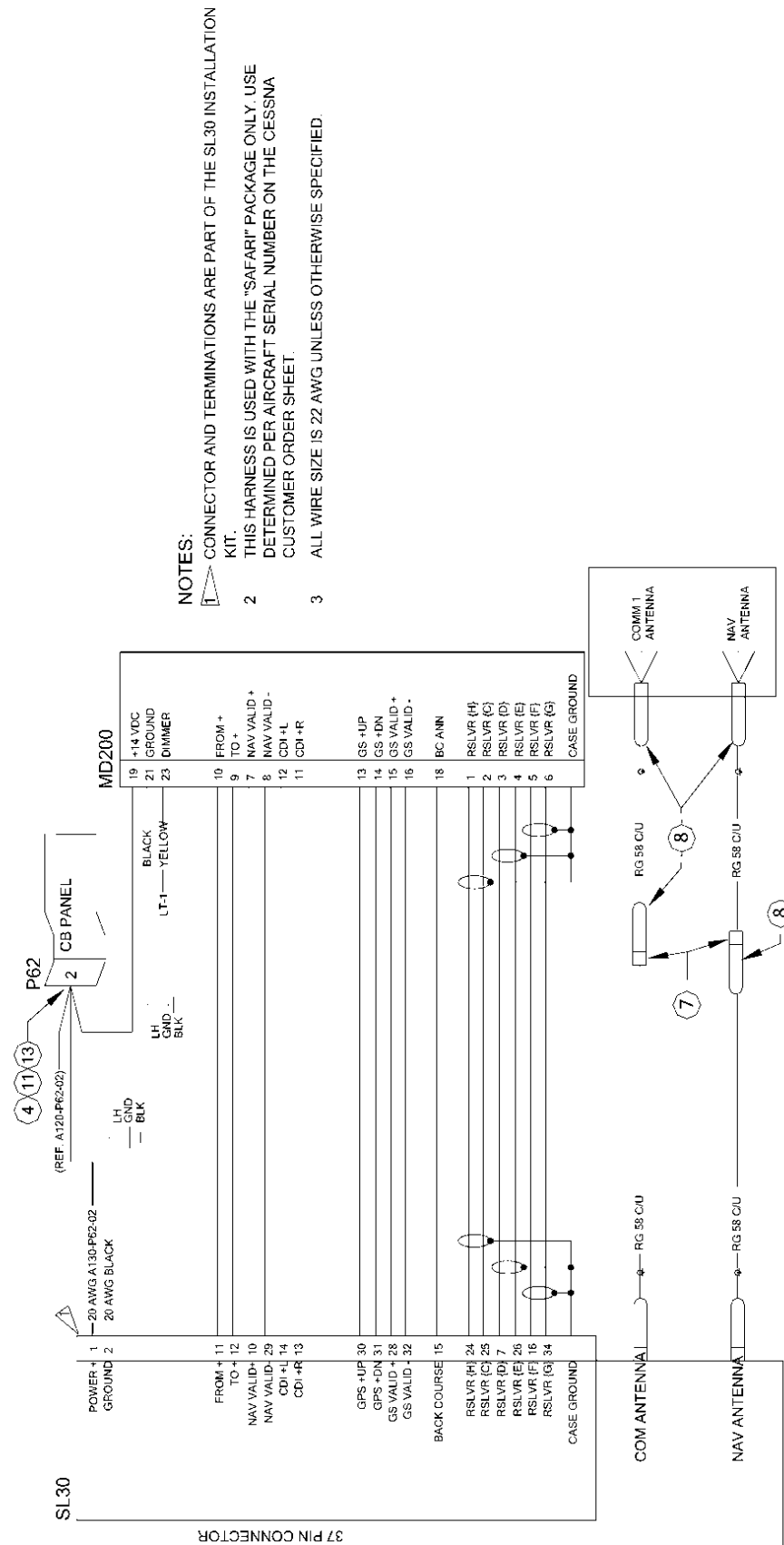
Detail 34 - 3 NAV/COM SL30 Basic Package Wiring (4/5)



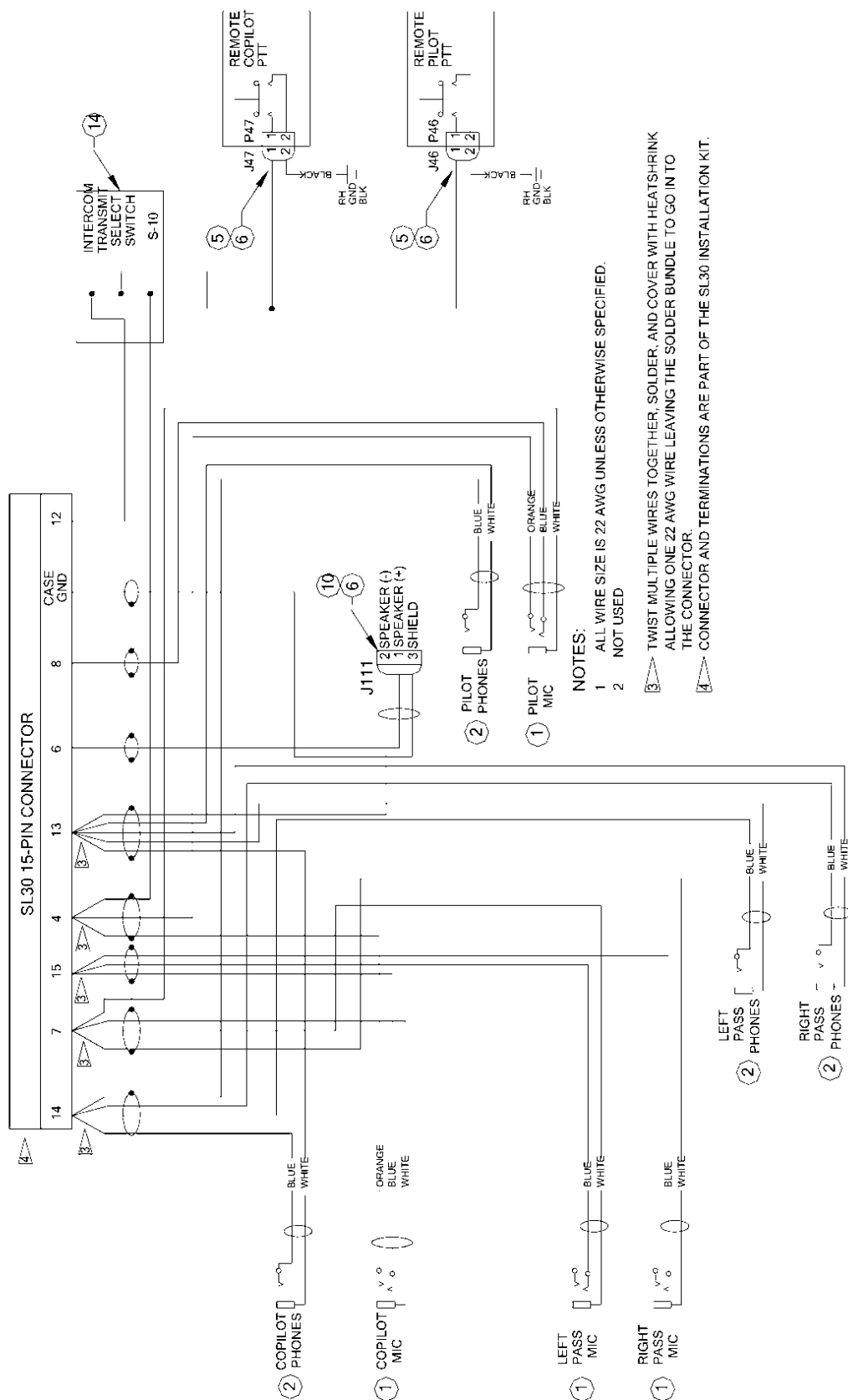
CONNECTOR AND TERMINATIONS ARE PART OF THE
SL30 INSTALLATION KIT.

27	9	794016-1	SOCKET, 24-18 AWG, AMP
26	9	794017-1	PIN, 24-18 AWG, AMP
25	1	770419-1	RECEPTACLE, 9 PIN FREE HANGING, AMP
24	1	770428-1	PLUG HOUSING, 9 PIN FREE HANGING, AMP
23	4	PKG 22 DUN1	CAP NUT, LEMO-USA
22	4	BRR PS 200.P7SN	CAP, LFMJ-USA
21			NOT USED
20			NOT USED
19			NOT USED
18			NOT USED
17			NOT USED
16			NOT USED
15			NOT USED
14	1	A101P3YZ0	SWITCH, SPDT, TGGLE, TYCC-ALCDSWICH
13			NOT USED
12			NOT USED
11	1	66399-4	PIN, 18-15 AWG, AMP
10			NOT USED
9	4	PKG 00 SNL MN	CONNECTOR KIT, LEMO-USA
8	4	225395-1	CONNECTOR, STRAIGHT 3NC, R508, AMP
7			NOT USED
6	1	794016-1	SOCKET, 24-18 AWG, AMP
5	2	770342-1	RECEPTACLE, 2 PIN FREE HANGING, AMP
4			NOT USED
3	1	65103-4	PIN, 24-20 AWG, AMP
2	4	J.1034	PISTON JACK SWITCHCRAFT
1	4	J.1033	MIC JACK, SWITCHCRAFT
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL PARTS LIST

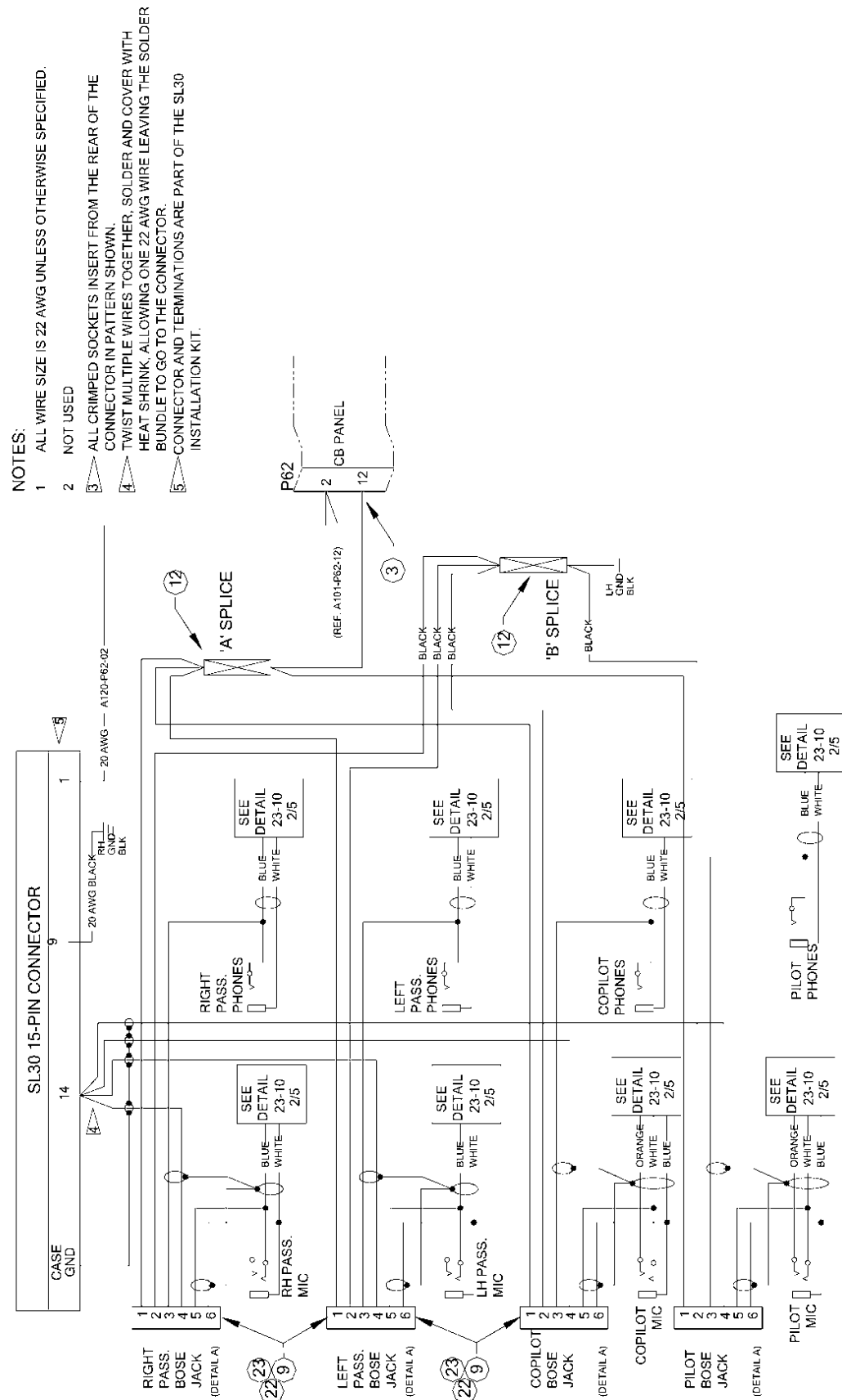
Detail 34 - 3 NAV/COM SL30 Basic Package Wiring (5/5)



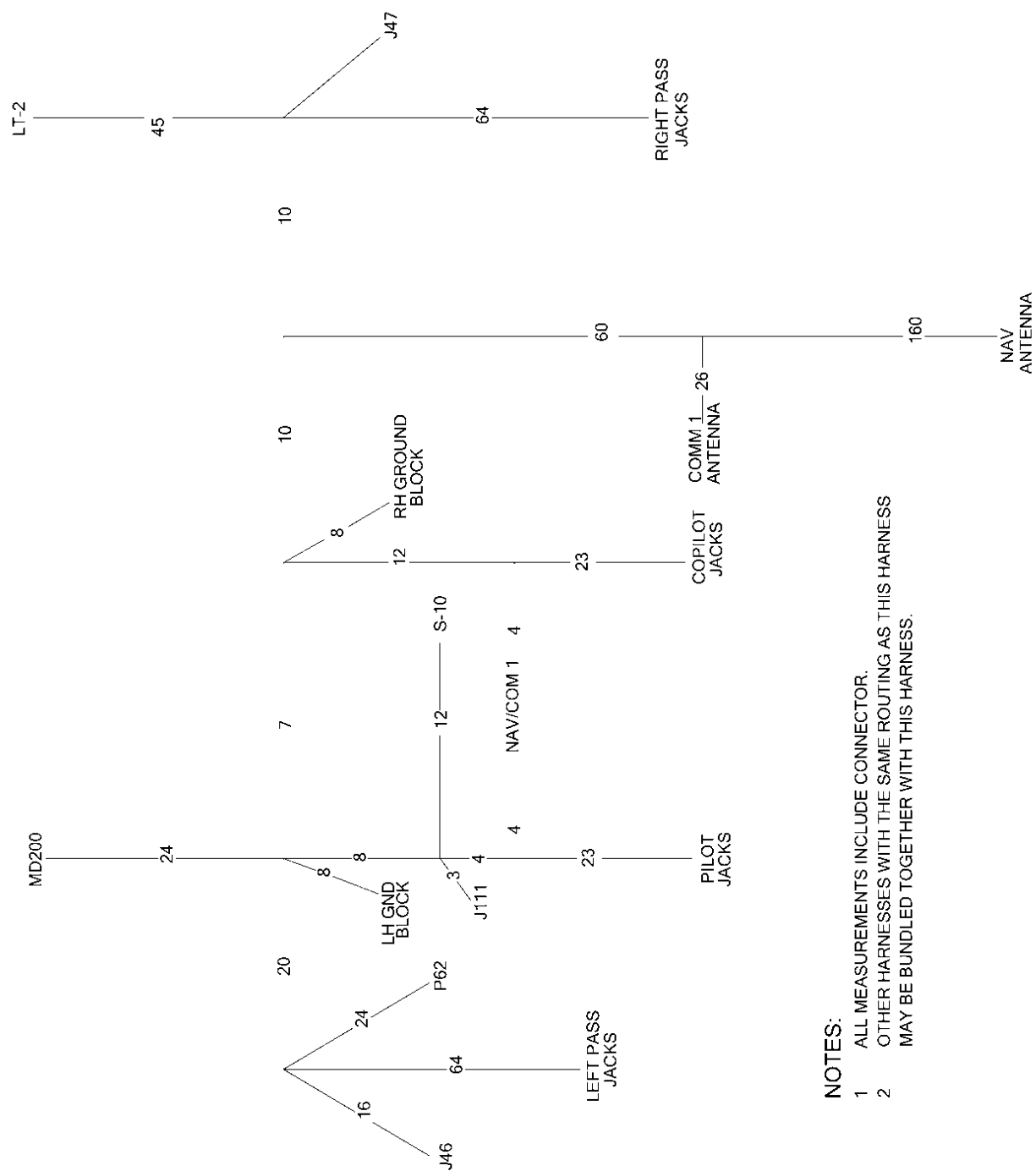
Detail 34 - 4 NAV/COM SL30 Wiring (LB53344411-) (1/5)



Detail 34 - 4 NAV/COM SL30 Wiring (2/5)



Detail 34 - 4 NAV/COM SL30 Wiring (3/5)

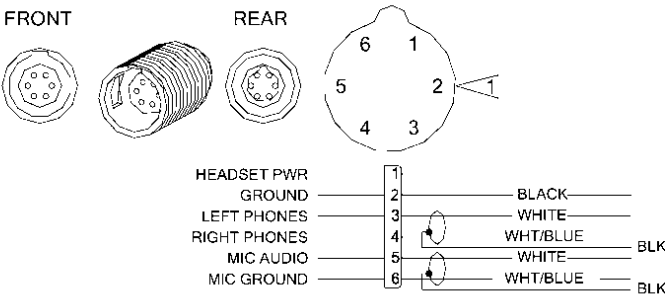


NOTES:

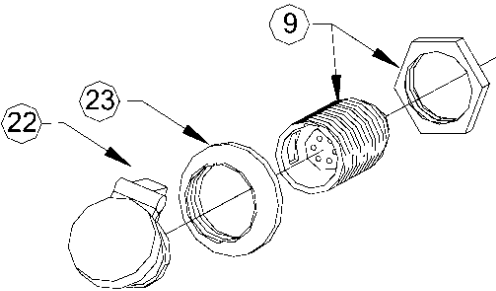
- 1 ALL MEASUREMENTS INCLUDE CONNECTOR.
- 2 OTHER HARNESSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED TOGETHER WITH THIS HARNESS.

Detail 34 - 4 NAV/COM SL30 Wiring (4/5)

DETAIL A
BOSE CONNECTORS



BOSE CONNECTOR ASSEMBLY DETAIL
NOT TO SCALE

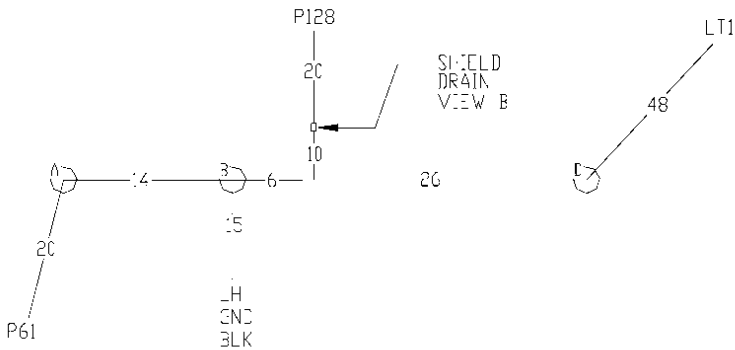
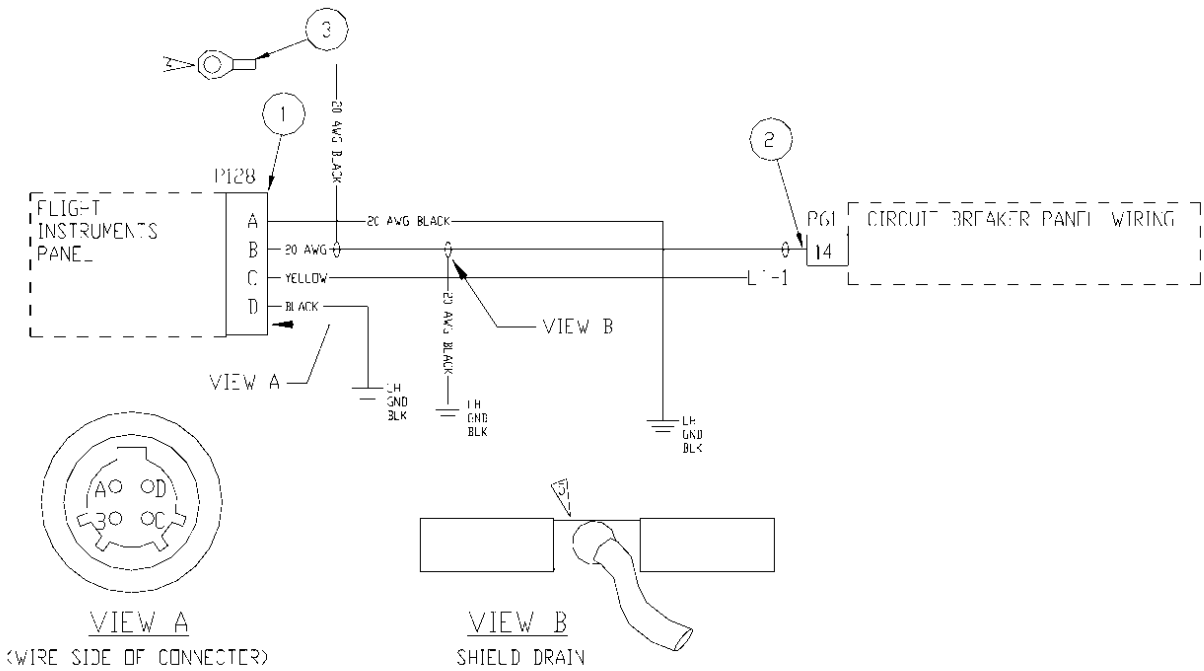


1 ALL CRIMPED SOCKETS INSERT FROM THE REAR OF THE CONNECTOR IN PATTERN SHOWN.

23	4	PKG. 22.DUN.1	CAP NUT, LEMO-USA
22	4	BRR. 2S. 200.PZSN	CAP, LEMP-USA
21			NOT USED
20			NOT USED
19			NOT USED
18			NOT USED
17			NOT USED
16			NOT USED
15			NOT USED
14	1	A101P3YZQ	SWITCH, SPDT, TOGGLE, TYCO-ALCOSWITCH
13	1	206070-1	BACKSHELL, SIZE 17, CPC, AMP
12	2	320559	SPLICE, PIDG, 22-18 AWG, AMP
11	1	66099-4	PIN, 18-16 AWG, AMP
10	2	770333-1	RECEPTACLE, 3-PIN, FREE HANGING, AMP
9	4	PKG. MO.6NL.MN	CONNECTOR KIT, LEMO-USA
8	4	225395-1	CONNECTOR, STRAIGHT, BNC, RG58, AMP
7	2	225396-1	CONNECTOR, STRAIGHT, BNS, RG58, AMP
6	10	794016-1	SOCKET, 24-18 AWG, AMP
5	2	770342-1	RECEPTACLE, 2 PIN, FREE HANGING, AMP
4	1	206036-3	RECEPTACLE, 17-16 PIN, CPC, FREE HANGING, AMP
3	1	66103-4	PIN, 24-20 AWG, AMP
2	4	JJ034	JACK, PHONE, STEREO, SWITCHCRAFT
1	4	JJ033	JACK, MIC, SWITCHCRAFT
ITEM QTY PART NUMBER			DESCRIPTION or MATERIAL
PARTS LIST			

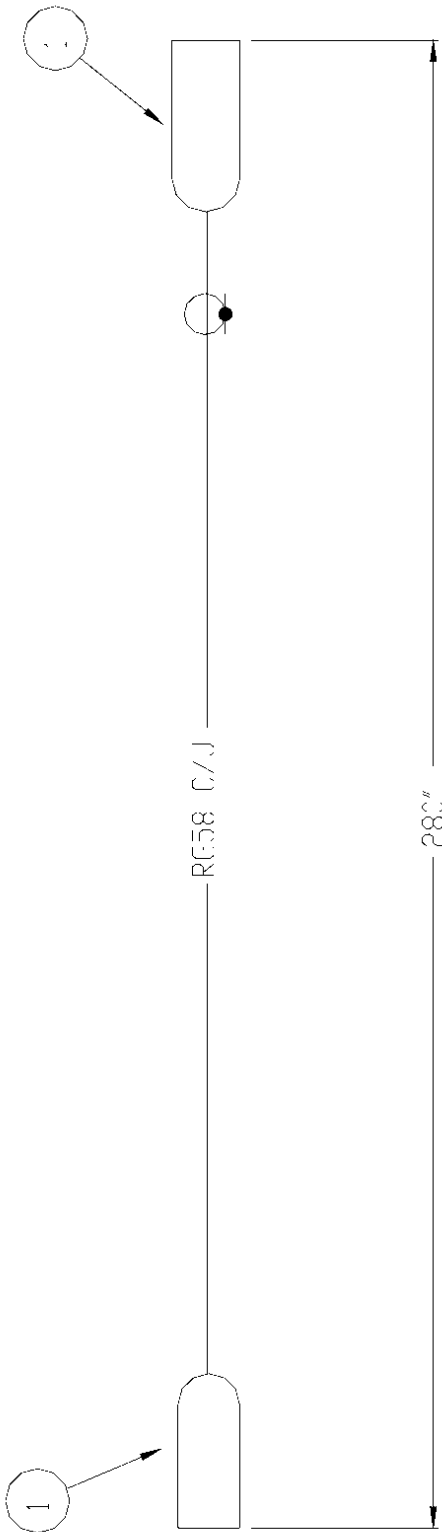
Detail 34 - 4 NAV/COM SL30 Wiring (5/5)

- NOTES:
- 1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
 - 2. NOT USED.
 - 3. ALL MEASUREMENTS INCLUDE CONNECTOR.
 - 4. TERMINATE UNDER SCREW ON CONNECTOR BACKSHELL. KEEP PIGTAIL AS SHORT AS POSSIBLE.
 - 5. REMOVE ONLY ENOUGH INSULATION TO ALLOW THE 20 AWG BLACK WIRE TO BE SOLDERED TO THE SHIELD. WHEN COOL, SLIDE HEAT SHRINK OVER THE JOINT.
 - 6. Ⓞ DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES.



ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL
1	8	M22759/16-20-0		WIRE, ELEC., MED. WT., 600 V, 20 ga., BLACK
6	0	M22759/16-20-4		WIRE, ELEC., MED. WT., 600 V, 20 ga., YELLOW
5	5	M22759/16-20-0		WIRE, ELEC., MED. WT., 600 V, 20 ga., BLACK
4	6	M22750/18-20-1		CABLE, ELECTRIC, SHIELD, 20 ga., SINGLE CONDUCTOR
3	1	36152		TERMINAL, RING, 22-18 AWG, #6 STUD, RED, AMP
2	1	66103-4		PKT, 24-20 AWG, AMP
1	1	P106E-8-45(SR)		CONNECTOR, CIRCULAR, STRAIGHT PLUG/W/ ENVIRONMENT-RESISTANT STRAIN RELIEF, AMP-END.
				PARTS LIST

Detail 34 - 5 Electric Artificial Horizon Wiring (LB53511405C1) (1/1)

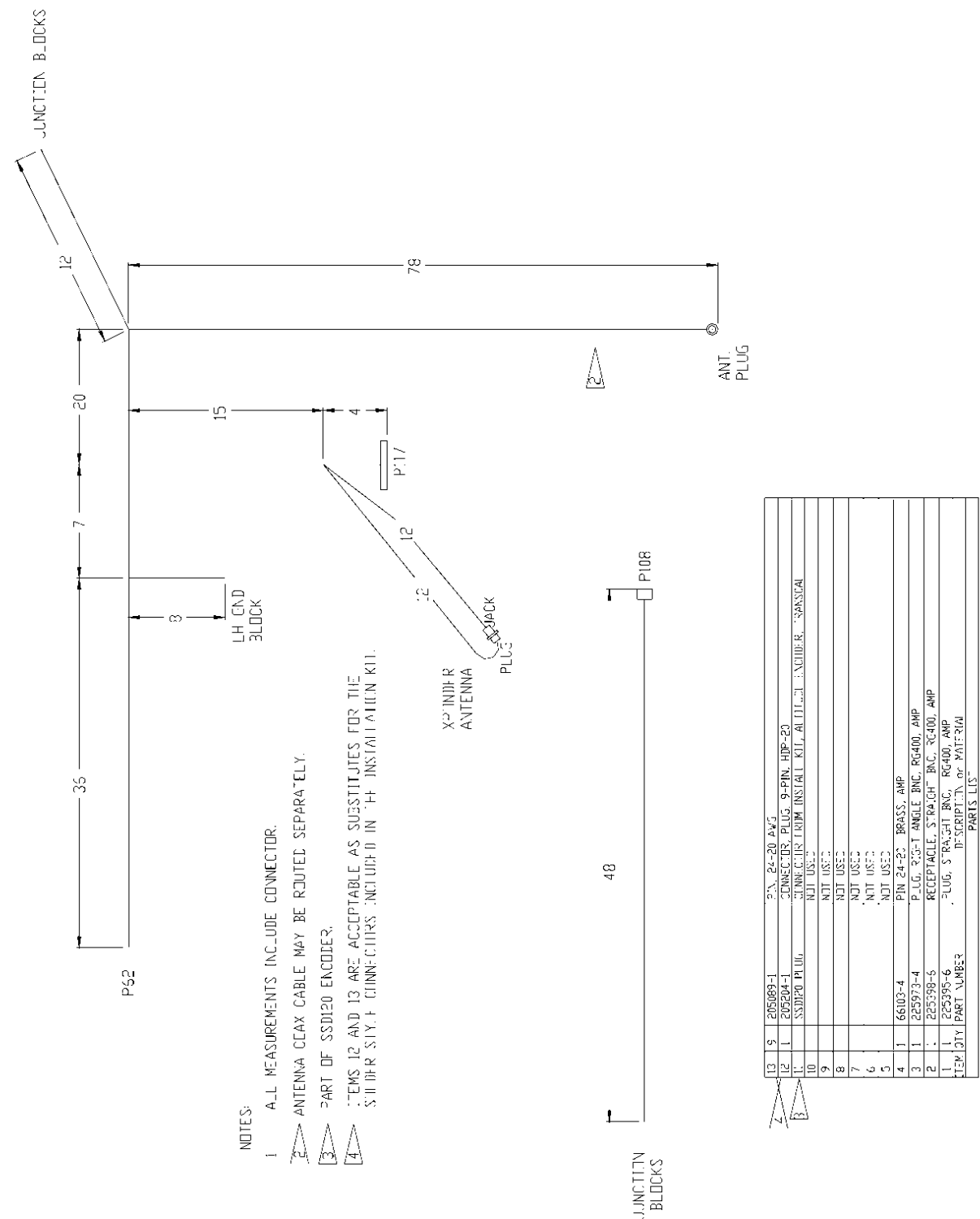


NOTES
1. ALL MEASUREMENTS INCLUDE CONNECTOR.

1	2	220390-1	CONNECTOR, STRAIGHT PLUG, BNC, RG58, AMP
ITEM QTY	PART NUMBER	DESCRIPTION or MATERIAL PARTS LIST	

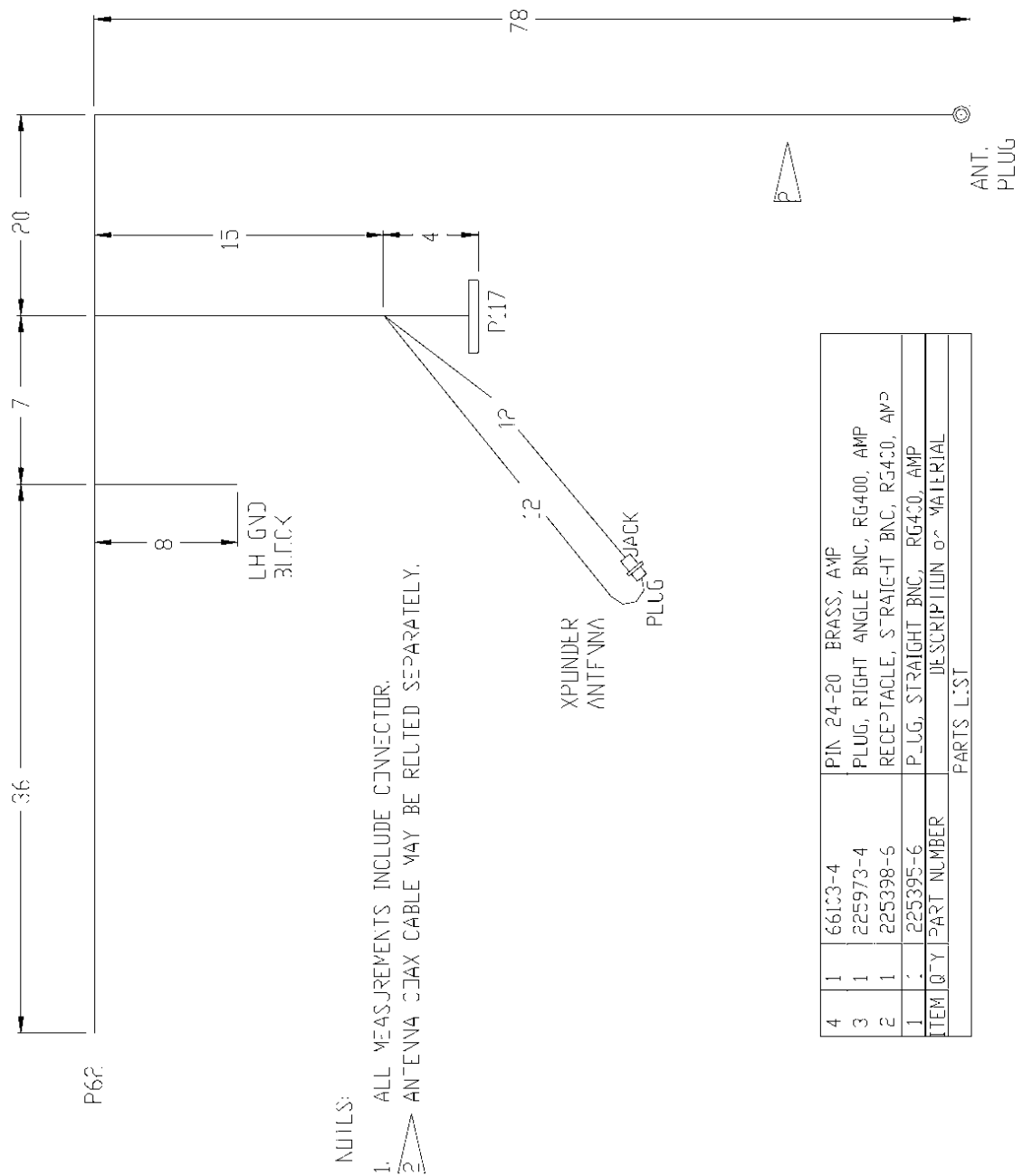
Detail 34 - 6 NAV Antenna Cable Assembly (LA53344407B)





Detail 34 - 7 Transponder SL70/ALT ENC. Premium IFR Wiring. (2/2)



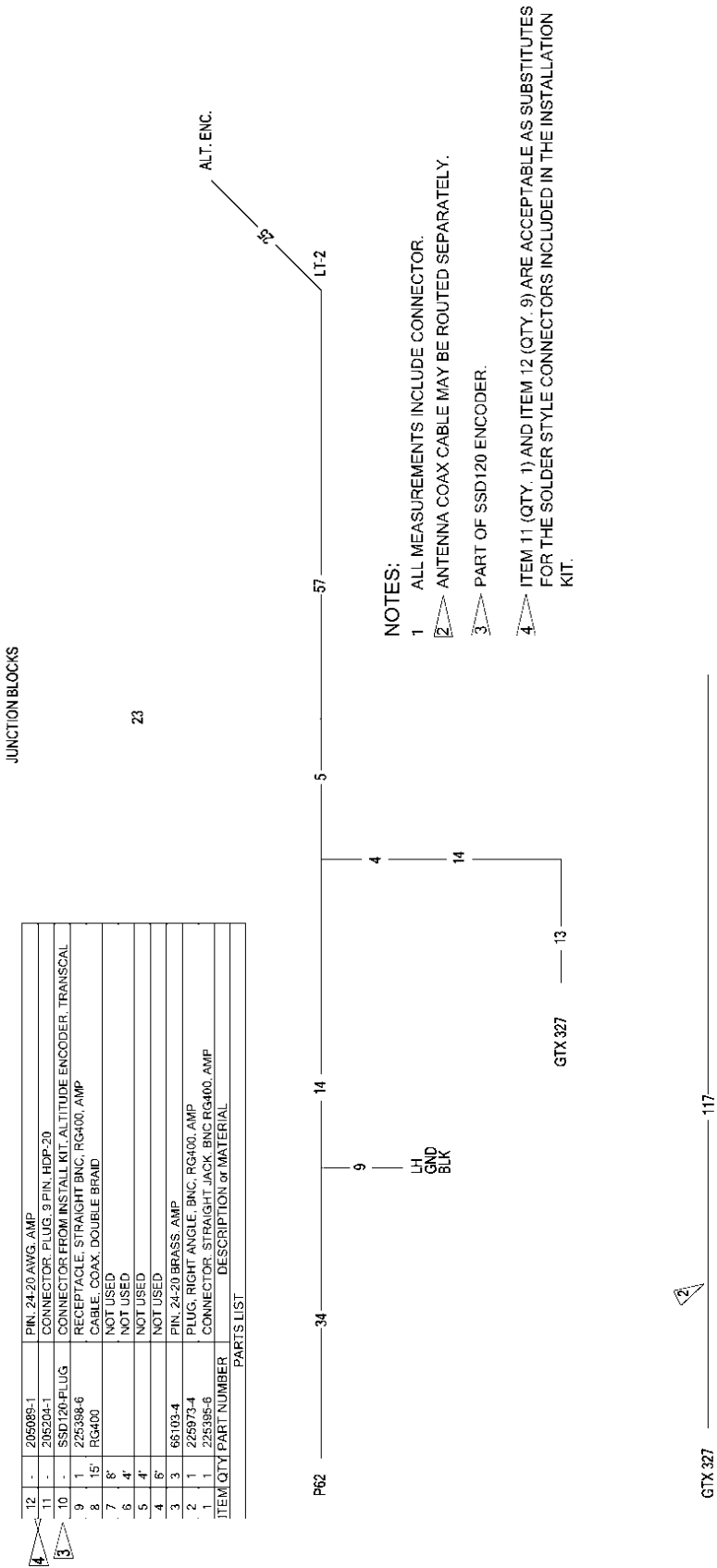


Detail 34 - 8 Transponder SL70/ALT ENC. Basic IFR Wiring (2/2)



- 1 ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
- 2 PART OF GTX 327 INSTALLATION KIT REF. 011-00228-00 INCLUDED WITH GTX 327 UNIT.
- 3 NOT USED.
- 4 NOT USED
- 5 CONTACTS USED HERE ARE PART OF TERMINAL JUNCTION MODULE KIT.

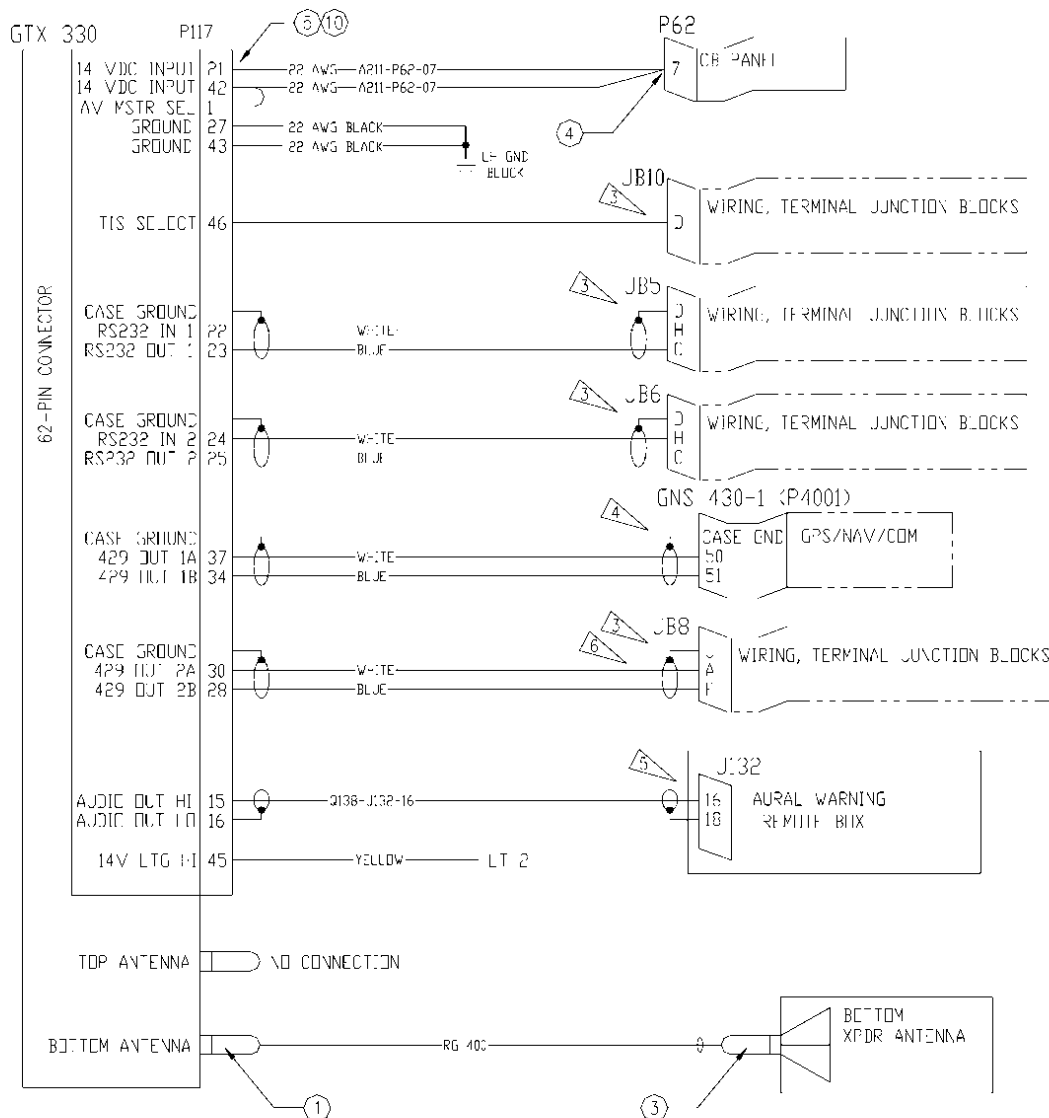
Detail 34 - 9 GTX 327 Transponder/ALT ENC Wiring (LB53344510-) (1/2)



Detail 34 - 9 GTX 327 transponder/ALT ENC Wiring (2/2)

NOTES:

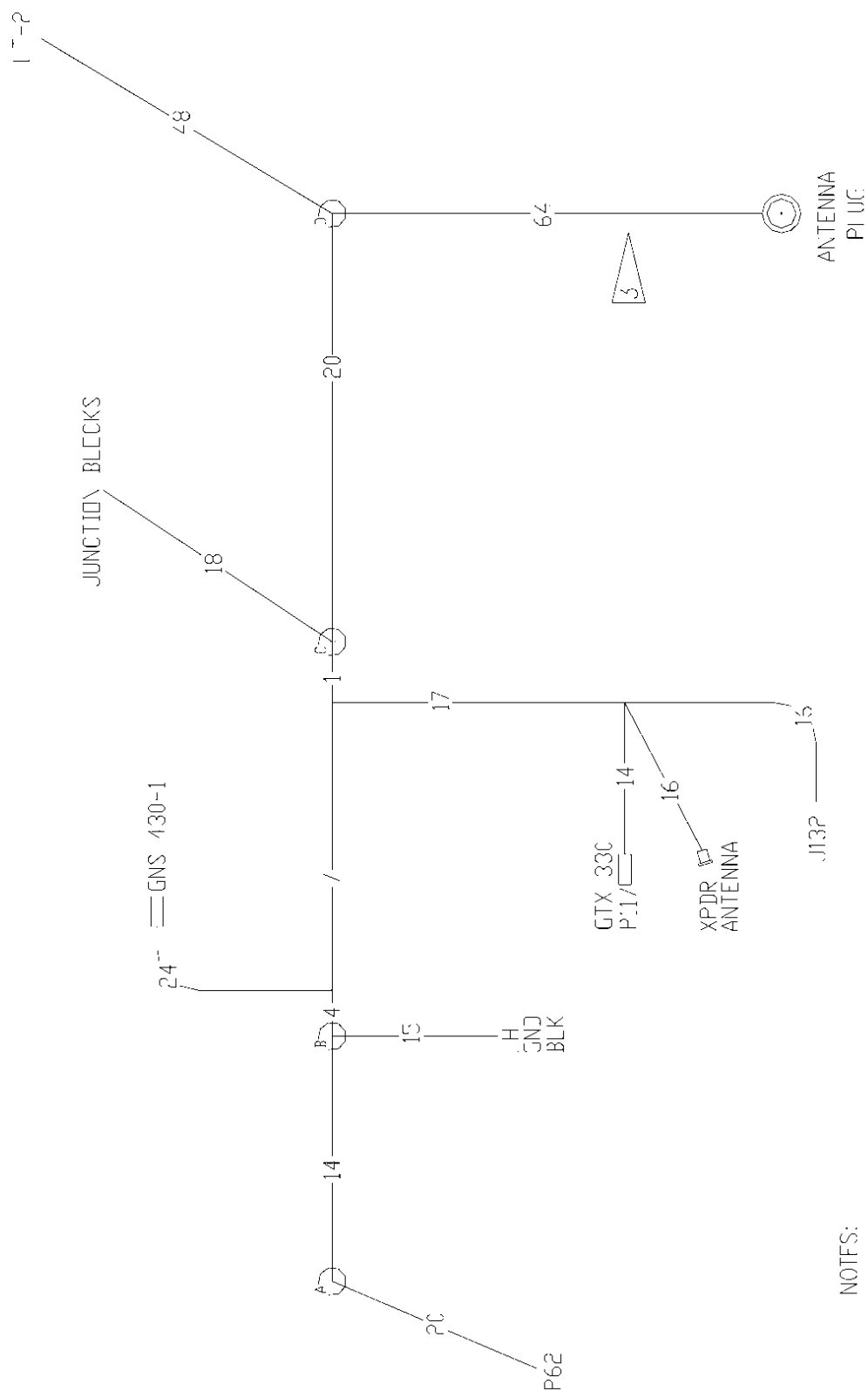
1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2. NOT USED.
3. CONTACTS USED ARE PART OF TERMINAL JUNCTION MODULE KIT.
4. TERMINALS ARE PART OF GNS 430 CONNECTOR KIT.
5. THESE WIRES WILL BE TERMINATED IN A LATER ASSEMBLY.
6. THIS WIRING CONNECTION TO JB8 IS REQUIRED IF GTX 330 IS SELECTED FOR TRAFFIC DISPLAY ON EX5000 MFD. IF OTHER TRAFFIC SYSTEM IS SELECTED (E.G. IAS OR CAS) FOR DISPLAY ON THE MFD, CAP AND STOW THIS WIRE END NEAR JB8 JUNCTION BLOCK. USE DETERMINED PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.



12	9'	M22759/16-22-4		WIRE, ELEC., MFD. WT., 600 V., 22 ga., YELLOW
11				NOT USED.
10	1	011-00582-00		BACK PLATE, GTX 330 TRANSPONDER, GARMIN
9	3'	M22750/16-22-1		CABLE, ELEC., SHIELDED, 22 ga., SINGLE CONDUCTOR
8	20'	M27500/18-22-2		CABLE, ELEC., SHIELDED, 22 ga., TWO CONDUCTOR
7	18'	M22759/16-20-9		WIRE, ELEC., MFD. WT., 600 V., 22 ga., WHITE
6	9'	M22759/16-22-0		WIRE, ELEC., MFD. WT., 600 V., 22 ga., BLACK
5	1	011-00583-00		CONNECTOR KIT, GTX 330 TRANSPONDER, GARMIN
4	2	56103-4		PIN, 24-20 AWG, AMP
3	1	225873-4		PLUG, RIGHT ANGLE BNC, RG400, AMP
2	10'	RG400/L		CABLE, COAX, DOUBLE BRAID
1	1	225395-6		CONNECTOR, STRAIGHT JACK, BNC RG400, AMP
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL

PARTS LIST

Detail 34 - 10 GTX 330 Transponder Wiring (LB53344511D) (1/2)



NOTES:

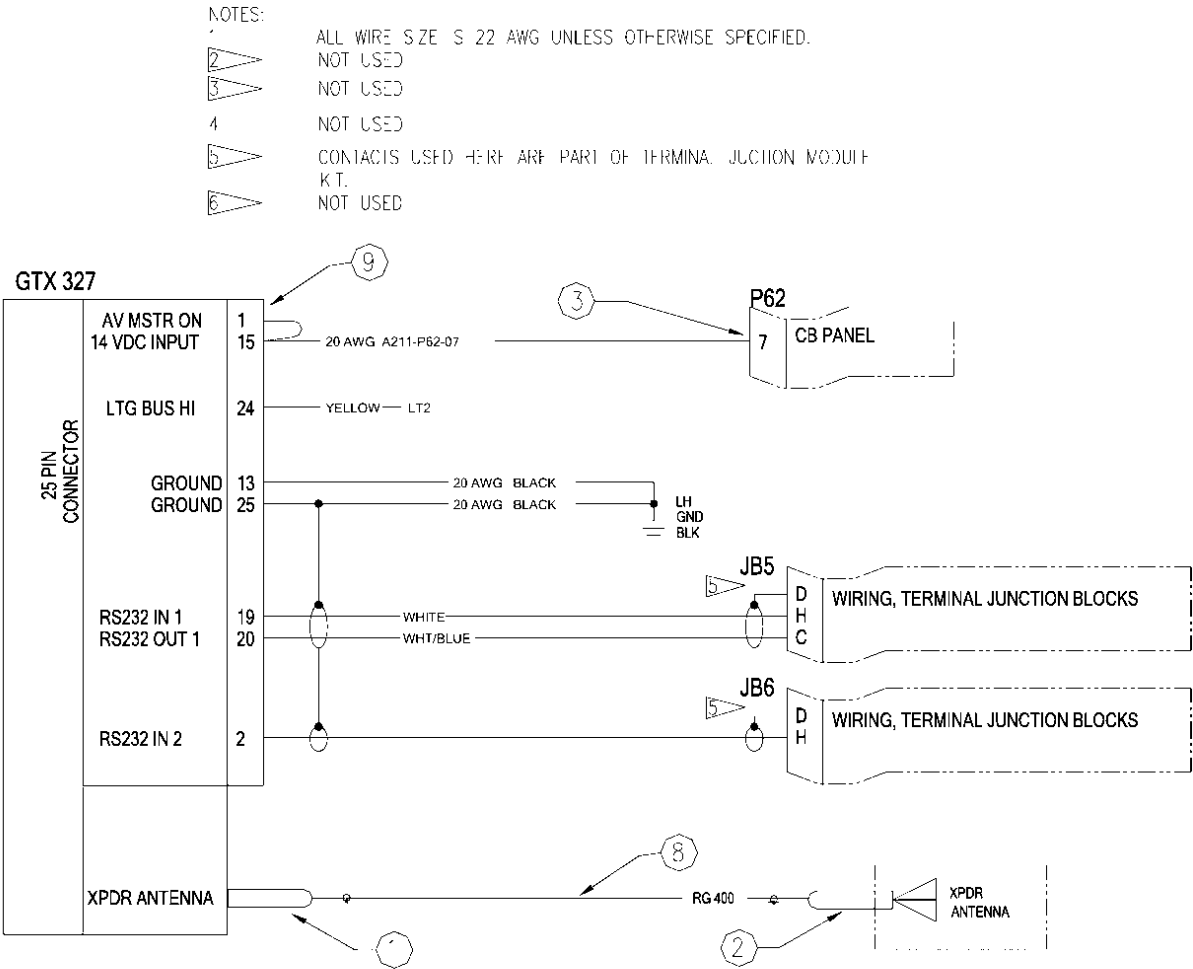
1. ALL MEASUREMENTS INCLUDE CONNECTOR.

2. VO⁺ USED.

3. ANI-NNA COAX MAY BE ROUTED SEPARATELY.

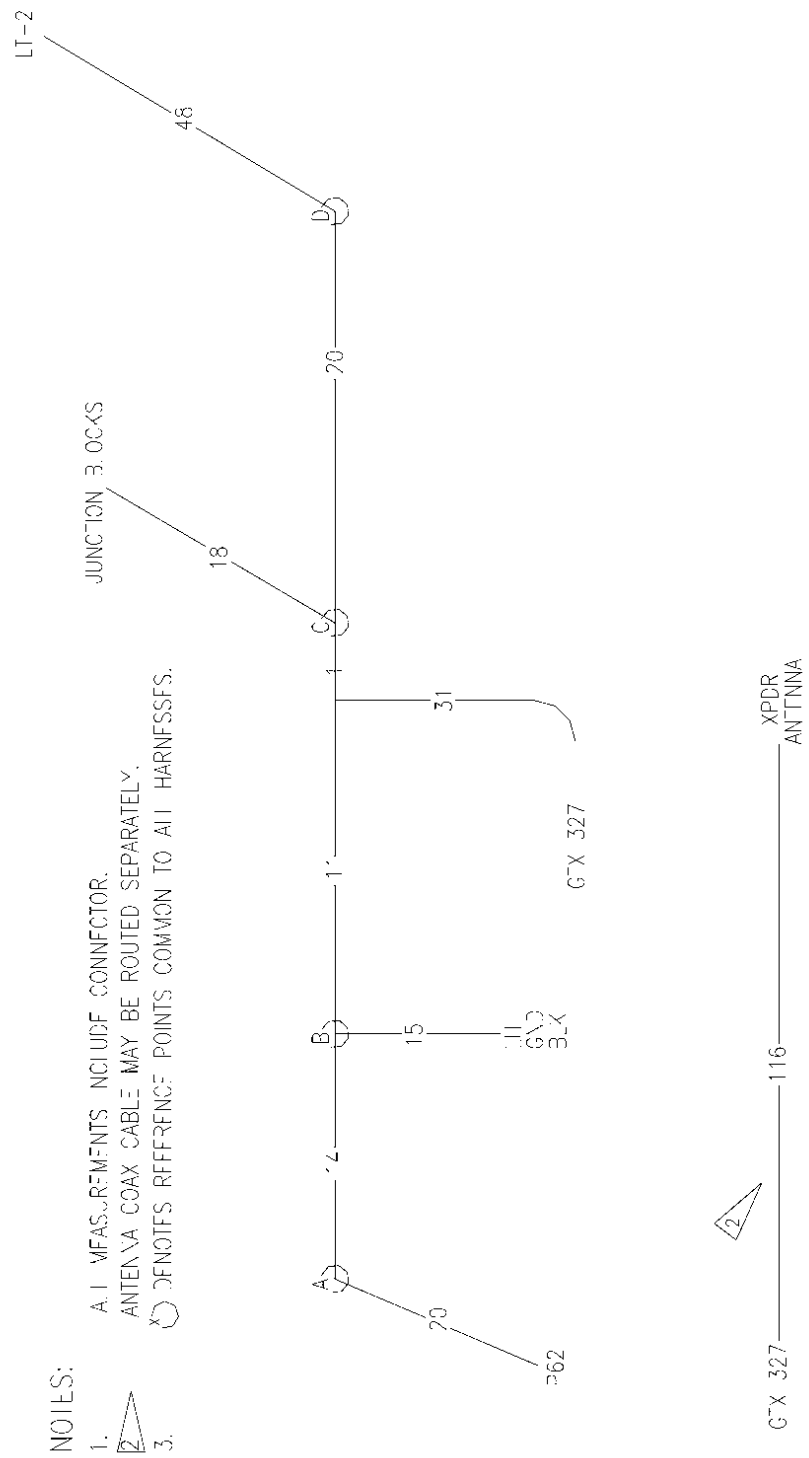
4. X DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES.

Detail 34 - 10 GTX 330 Transponder Wiring (2/2)

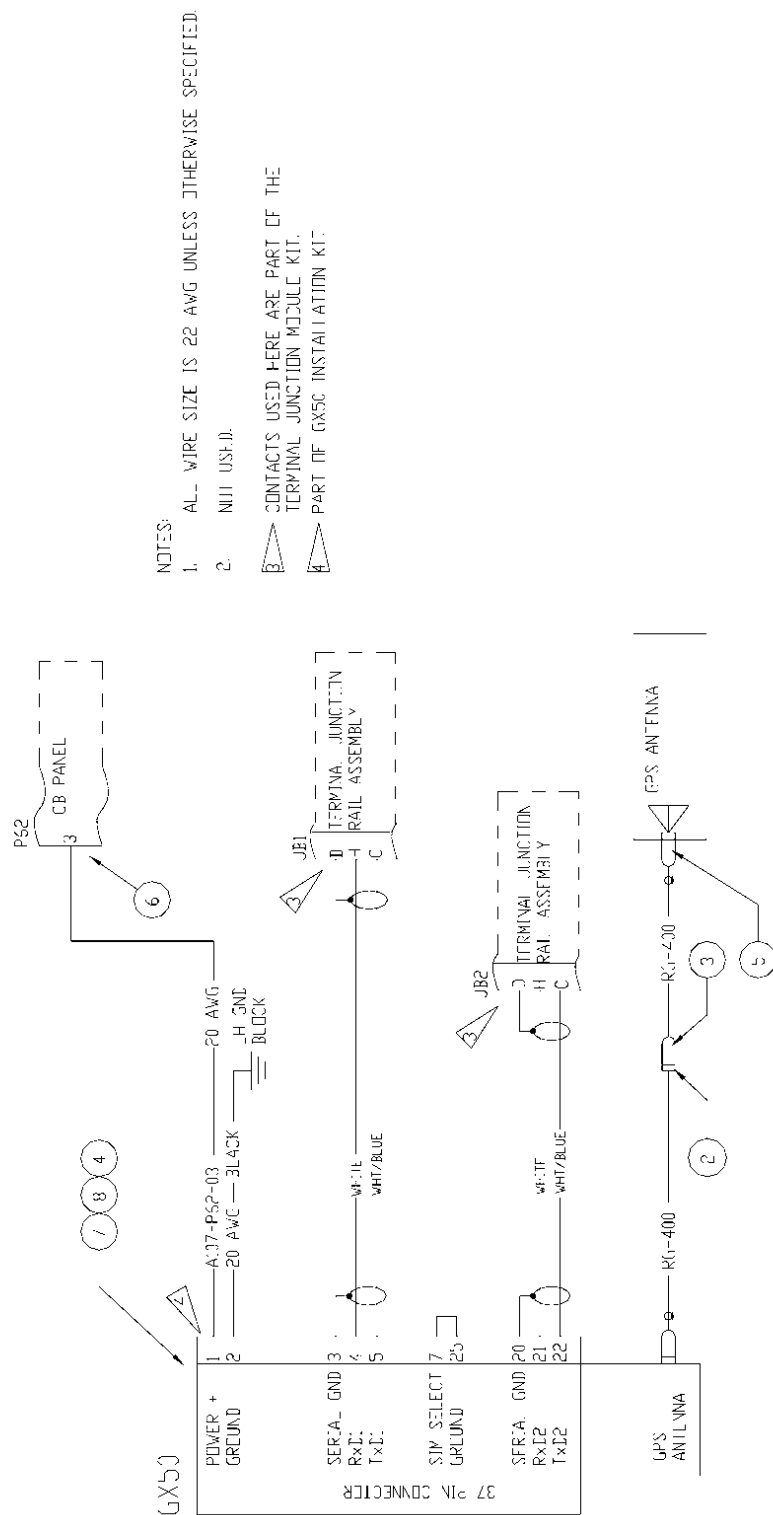


S	QTY	PART NUMBER	DESCRIPTION or MATERIAL
1	1	310-10101-01	INSTALL KIT, TRANSPONDER
6	10'	RG400/U	CABLE, COAX, DUAL Braid
7	5'		
6	5'		
5	10'		
4	7'		
3	2	66103-4	PIN, 24-20 BRASS, AMP
2	1	225973-4	PLUG, RIGHT ANGLE, BNC, RG400, AMP
1	1	225395-6	CONNECTOR, STRAIGHT JACK, BNC RG400, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

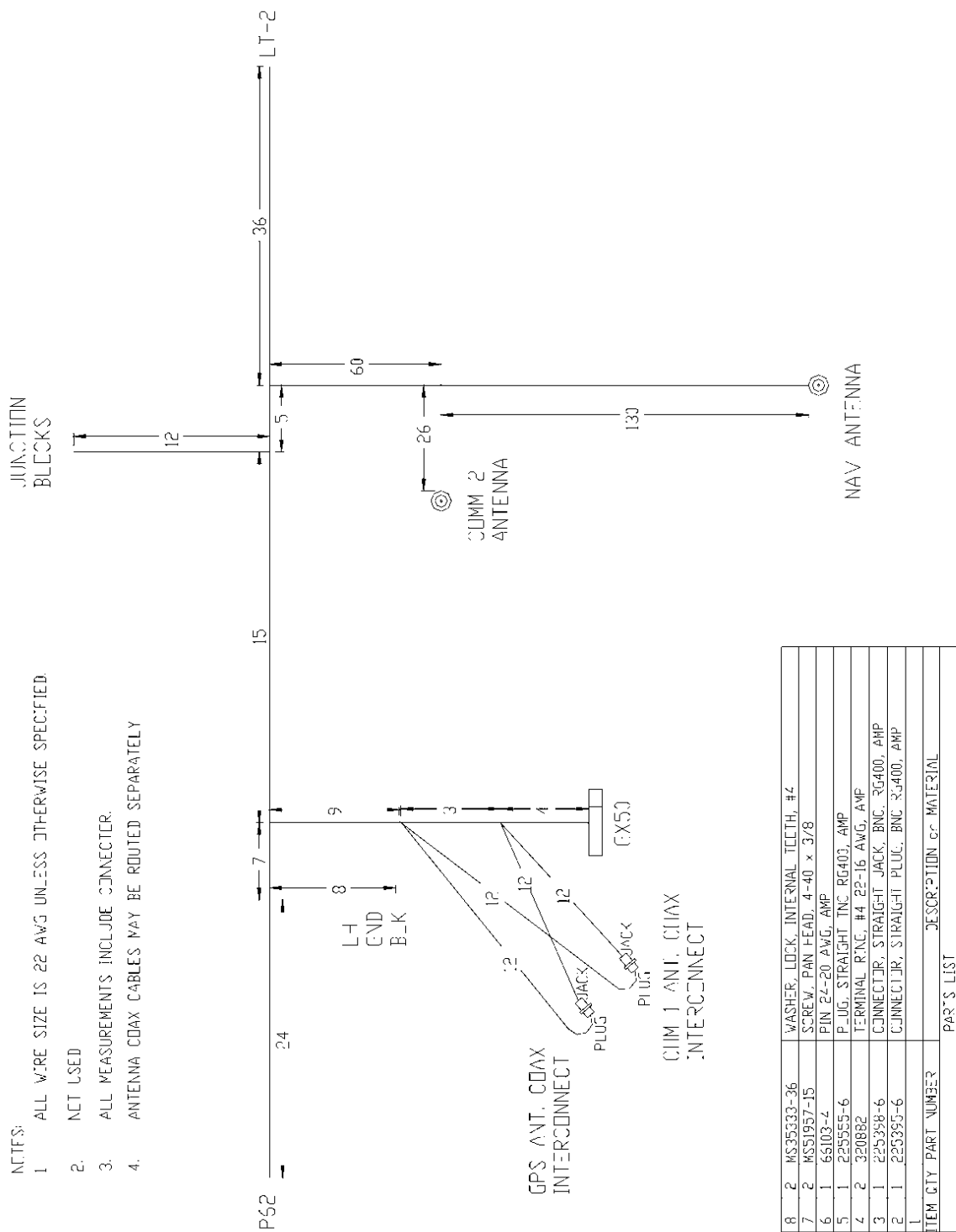
Detail 34 - 11 GTX 327 Transponder Wiring (LB53344510C) (1/2)



Detail 34 - 11 GTX 327 Transponder Wiring (2/2)



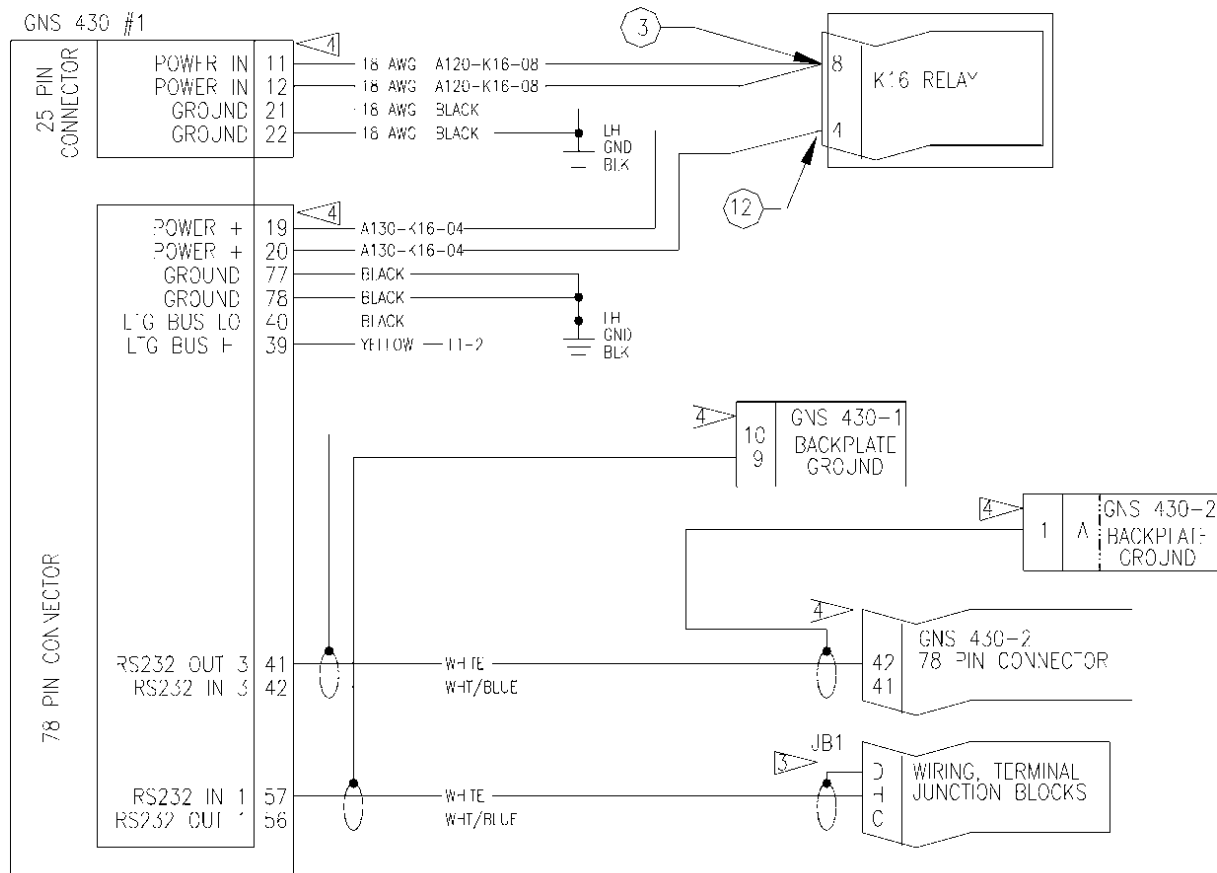
Detail 34 - 12 GX50 Premium IFR Wiring (LA53344601B) (1/2)



Detail 34 - 12 GX50 Premium IFR Wiring (2/2)

NOTES:

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2. NOT USED.
3. CONTACTS USED HERE ARE PART OF TERMINAL JUNCTION MODULE KIT.
4. PART OF GNS 430 011-00351-00 INSTALLATION KIT

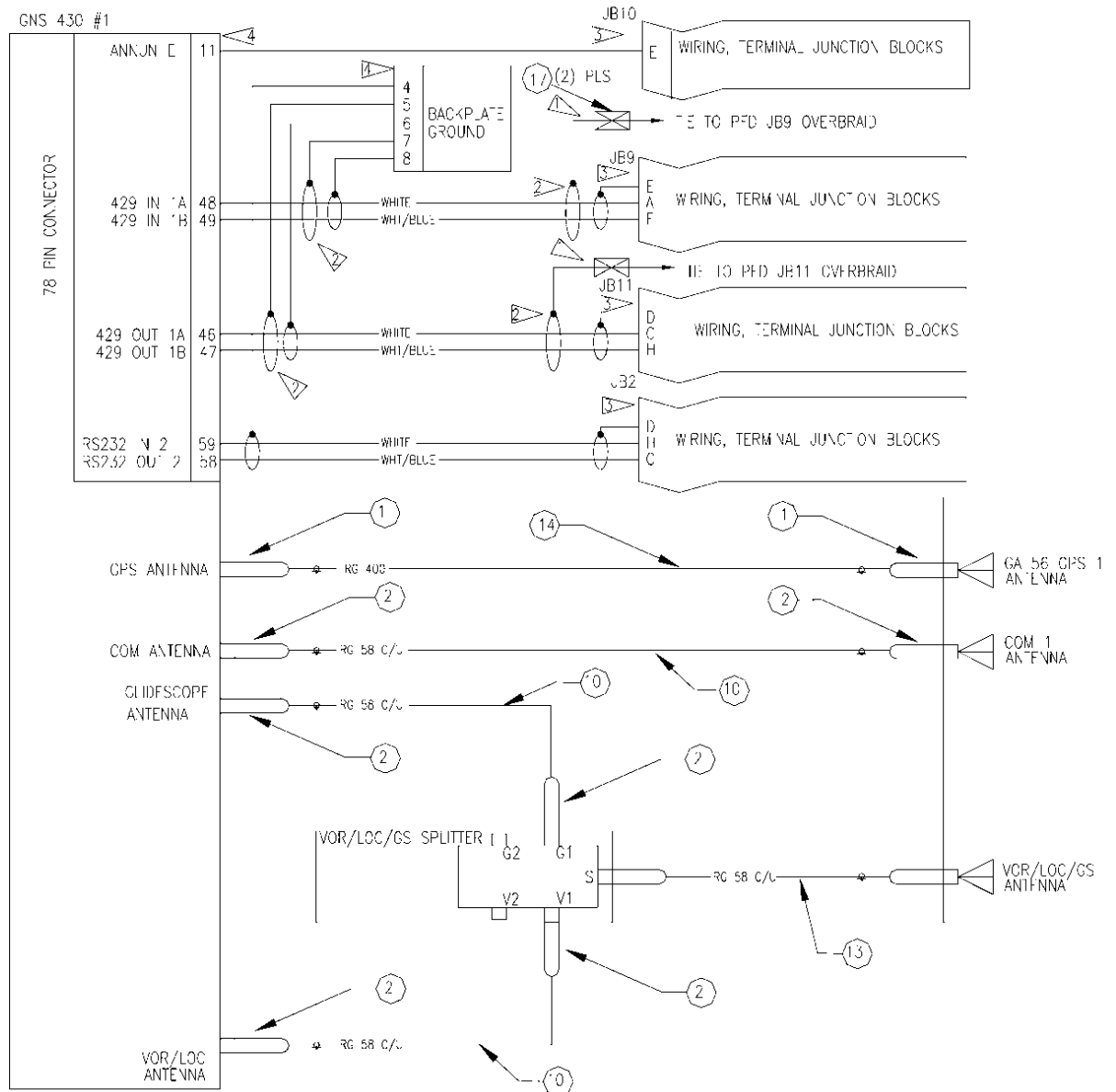


17	2	320559	BUTT SPLICE
16	5'	HIX-1/4	HEAT SHRINK TUBE, 1/4 NOMINAL I.D. EDMC
15	5'	8660	CABLE SHIELD, 1/8" NOMINAL I.D. BELDEN
14	17'	RG400/U	CABLE, COAX
13	1	1A53344407	CABLE ASSEMBLY, NAV ANTENNA
12	1	640903-1	RECEPTACLE, .250, RED, 22-18 AWG, AMP
11	1	011-00280-10	GNS 430, UNIT ONLY, PART OF 010-00139-10
10	22'	RG58 C/U	CABLE, COAX
9			NOT USED
8			NOT USED
7			NOT USED
6			NOT USED
5			NOT USED
4			NOT USED
3	1	640905-1	RECEPTACLE, .250, BLUE, 16-14 AWG, AMP
2	6	225395-1	CONNECTOR, STRAIGHT PLUG, RNC RG58, AMP
1	2	225395-6	CONNECTOR, STRAIGHT JACK, RNC RG400, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION OF MATERIAL
PARTS LIST			

Detail 34 - 13 GNS 430-1 GPS/COM/NAV, Entegra (LB53344612-) (1/3)

NOTES:

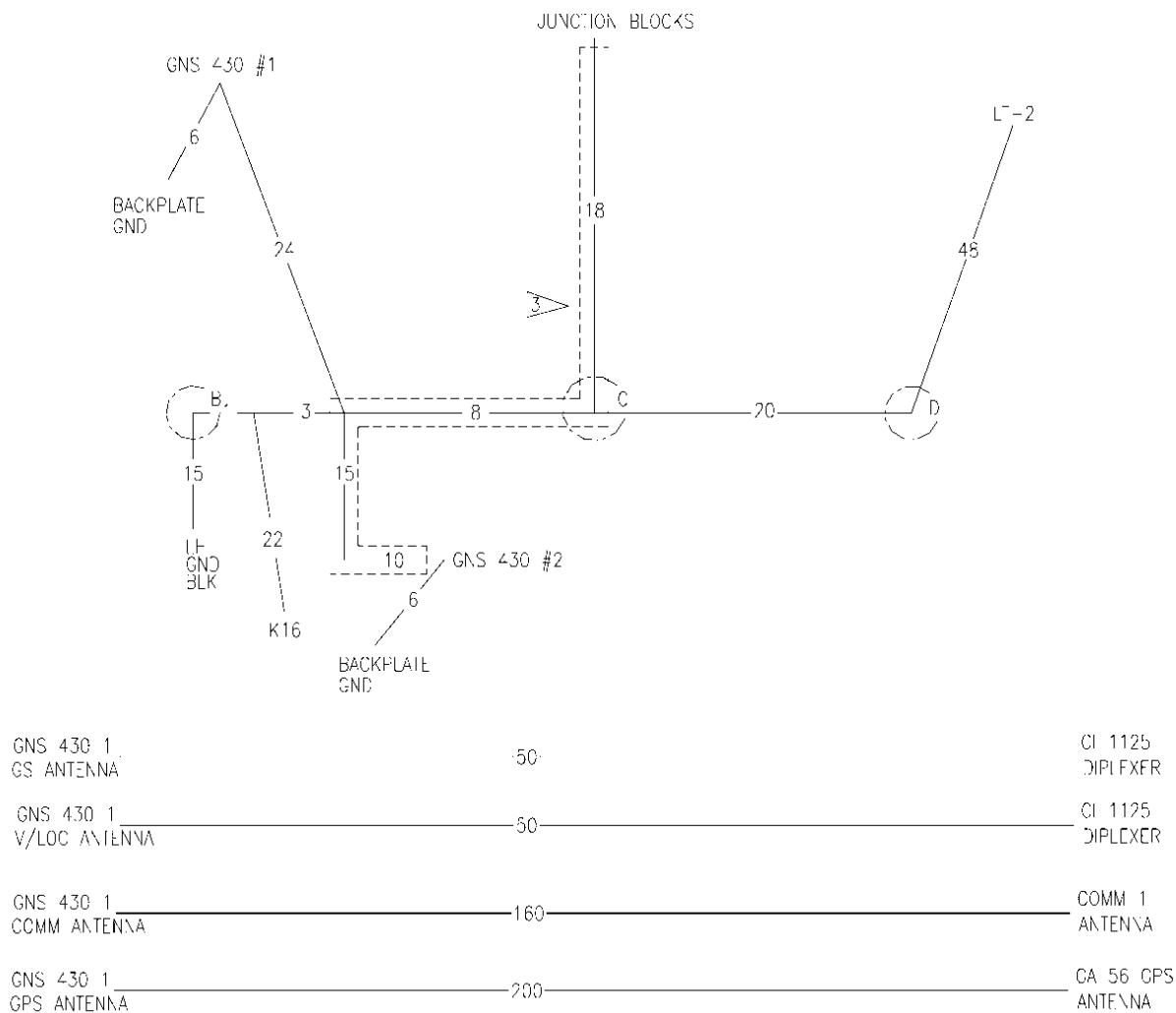
- 1 THE GNS 430-1 JB9 AND JB11 OVERBRAID WITH PFD JB9 AND JB11 OVERBRAID RESPECTIVELY.
- 2 CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD AS CLOSE TO THE PIN AS POSSIBLE. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEAT SHRINK.
- 3 CONTACTS USED HERE ARE PART OF TERMINAL JUNCTION MODULE KIT.
- 4 PART OF GNS 430 INSTALLATION KIT.



Detail 34 - 13 GNS 430-1 GPS/COM/NAV, Entegra (2/3)

NOTES:

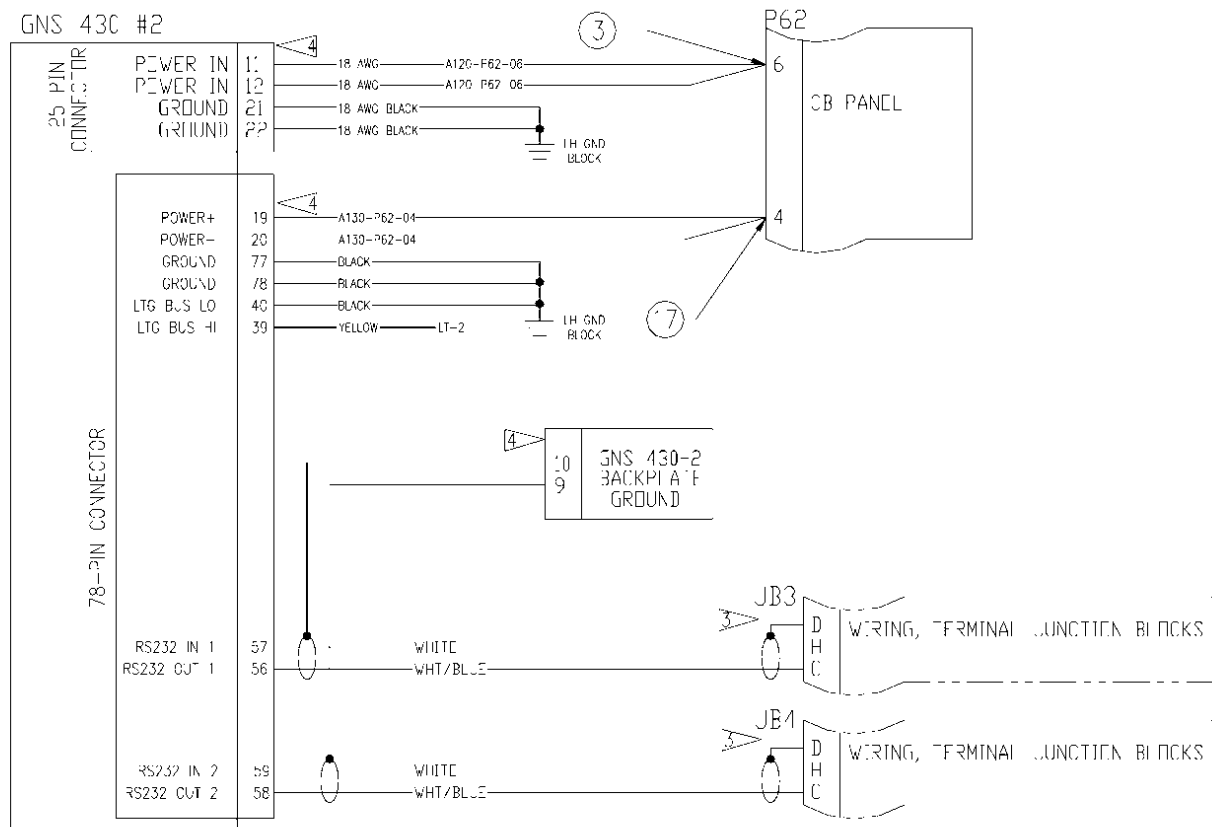
1. ALL MEASUREMENTS INCLUDE CONNECTOR.
 2. NOT USED.
3. SHIF. D. OVERBRAD THE HARNESS ENCLOSED WITH DASH-LINE FOR ENTegra ONLY.



Detail 34 - 13 GNS 430-1 GPS/COM/NAV, Entegra (3/3)

NOTES:

- 1 ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
- 2 NOT USED.
- 3 CONTACTS USED ARE PART OF TERMINAL JUNCTION MODULE KIT.
- 4 PART OF GNS 430 011-00351-00 INSTALLATION KIT.



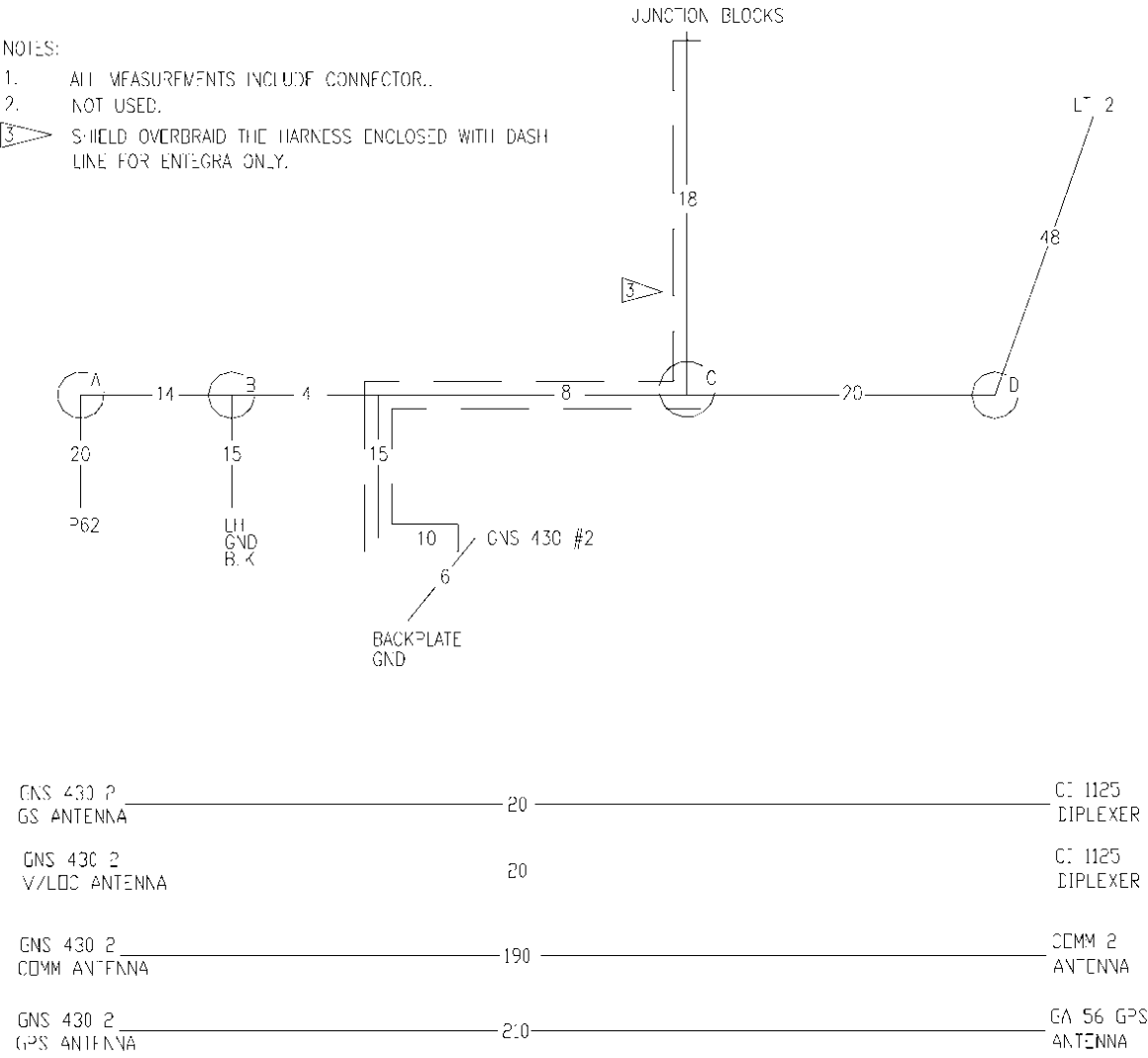
17	1	66103-4	PIN, 24-20 AWG, AMP
16	2	320559	BUTT SPLICE
15	4	HIX-1/4	FBI SHIRK TUBE, 1/4 NOMINAL I.D. EDMO
14	4	8660	CABLE SHIELD (BRAID), 1/8" NOMINAL I.D. BELDEN
13			NOT USED
12	18'	RG400	CABLE, COAX
11		01' 00280 10	GNS 430, UNIT ONLY, PART OF 010-00139-10
10	20'	RG58 C/U	CABLE, COAX
9	17'	M27500/18-22-2	CABLE, ELEC., SHIELDED, 22 ga., TWO CONDUCTOR
8	8'	M22759/16-22-4	WIRE, ELEC., MED. WT., 600 V, 22 ga., YELLOW
7	12'	M22759/16-22-0	WIRE, ELEC., MED. WT., 600 V, 22 ga., BLACK
6	17'	M22759/16-22-9	WIRE, ELEC., MED. WT., 600 V, 22 ga., WHITE
5	8'	M22759/16-18-0	WIRE, ELEC., MED. WT., 600 V, 18 ga., BLACK
4	11'	M22759/16-18-9	WIRE, ELEC., MED. WT., 600 V, 18 ga., WHITE
3	1	66099-4	PIN, 18-16 AWG, AMP
2	6	225395-1	CONNECTOR, STRAIGHT PLUG, ENC RG58, AMP
1	2	225395-6	CONNECTOR, STRAIGHT JACK, ENC RG400, AMP
ITEM	QTY	PART NUMBER	REV. DESCRIPTION or MATERIAL

PARTS LIST

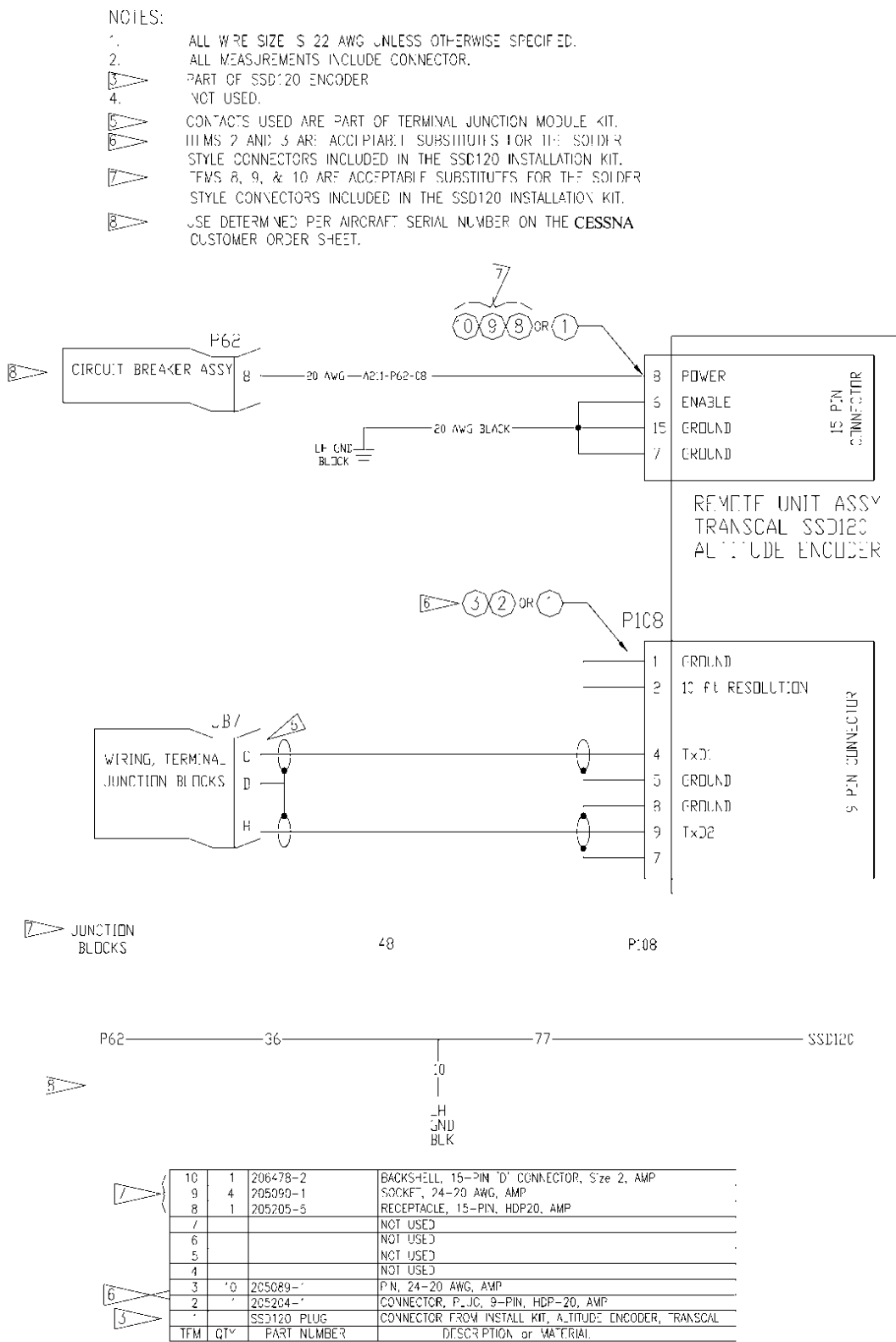
Detail 34 - 14 GNS 430 #2 GPS/COM/NAV, Entegra (LB53344613B1) (1/3)

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2. NO "USE".
3. CONTACTS USED ARE PART OF TERMINAL JUNCTION MODULE KIT.
4. PART OF GNS 430 INSTALLATION KIT.
5. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD AS CLOSE TO THE PIN AS POSSIBLE. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEAT SHRINK.





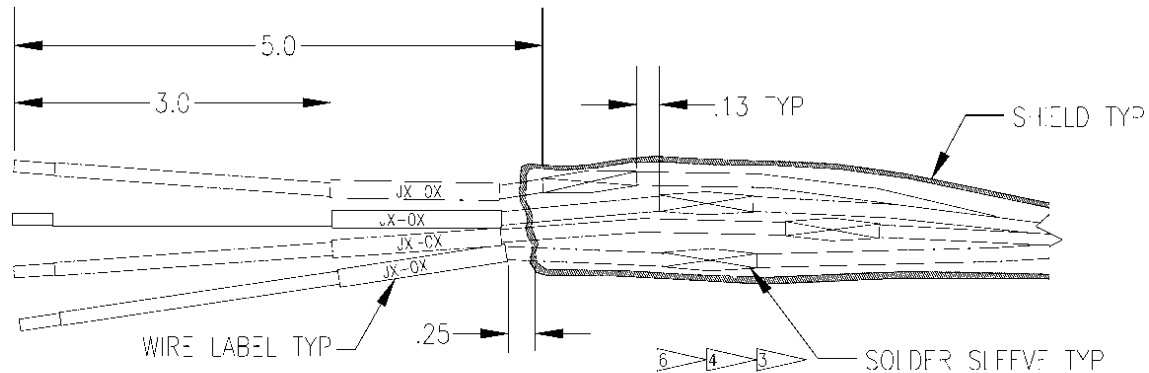
Detail 34 - 14 GNS 430 #2 GPS/COM/NAV, Entegra (3/3)



Detail 34 - 15 SSD120 Altitude Encoder Wiring, Entegra (LB53344513-)

NOTES:

- 1 GO.D PLATED SOCKET, P/N 770144-5 IS THE PREFERRED PART.
- 2 ALL DIMENSIONS ARE $\pm 0.25"$.
- 3 ALL SOLDER SLEEVES SHOULD BE STAGGERED SO AS NOT TO MAKE A LARGE BULGE IN FINISHED BUNDLE.
- 4 ONLY ONE SHIF.D WIRE PER SOLDER SLEEFV. DAISY CHAIN S-FILDS TOGETHER AS REQUIRED.
- 5 FOUR WIRES ARE SHOWN HERE ALL BUNDLES MAY CONTAIN MORE OR LESS.
- 6 A MAXIMUM OF TWO SOLDER SLEEVES MAY LIE ADJACENT TO EACH OTHER.
- 7 THE MS3106F CONNECTOR IS THE PREFERRED ITEM FOR PRODUCTION, WHEN USED ITEM 34 WILL NOT BE NEEDED.

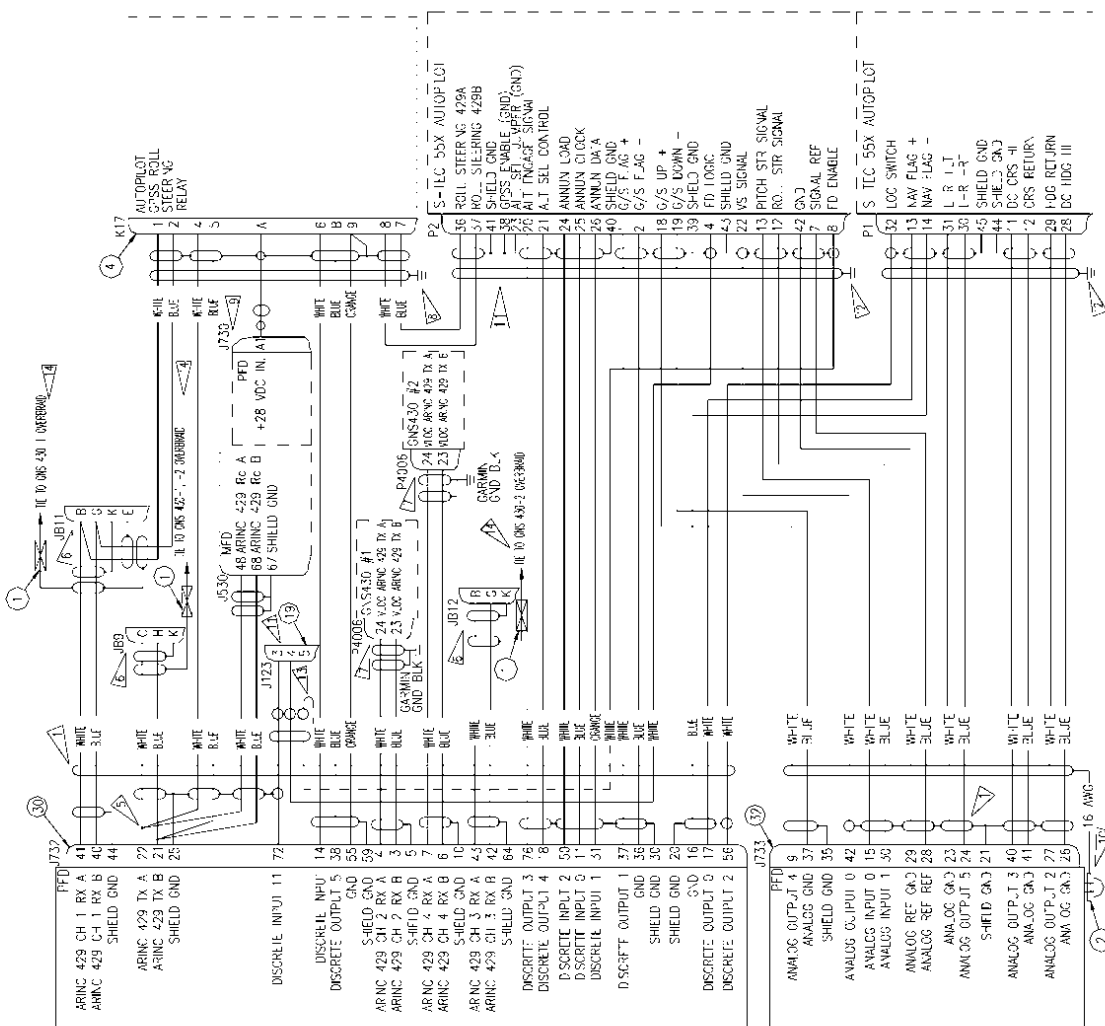


5 2 TYPICAL HARNESS CONSTRUCTION
(SCALE: N.T.S.)

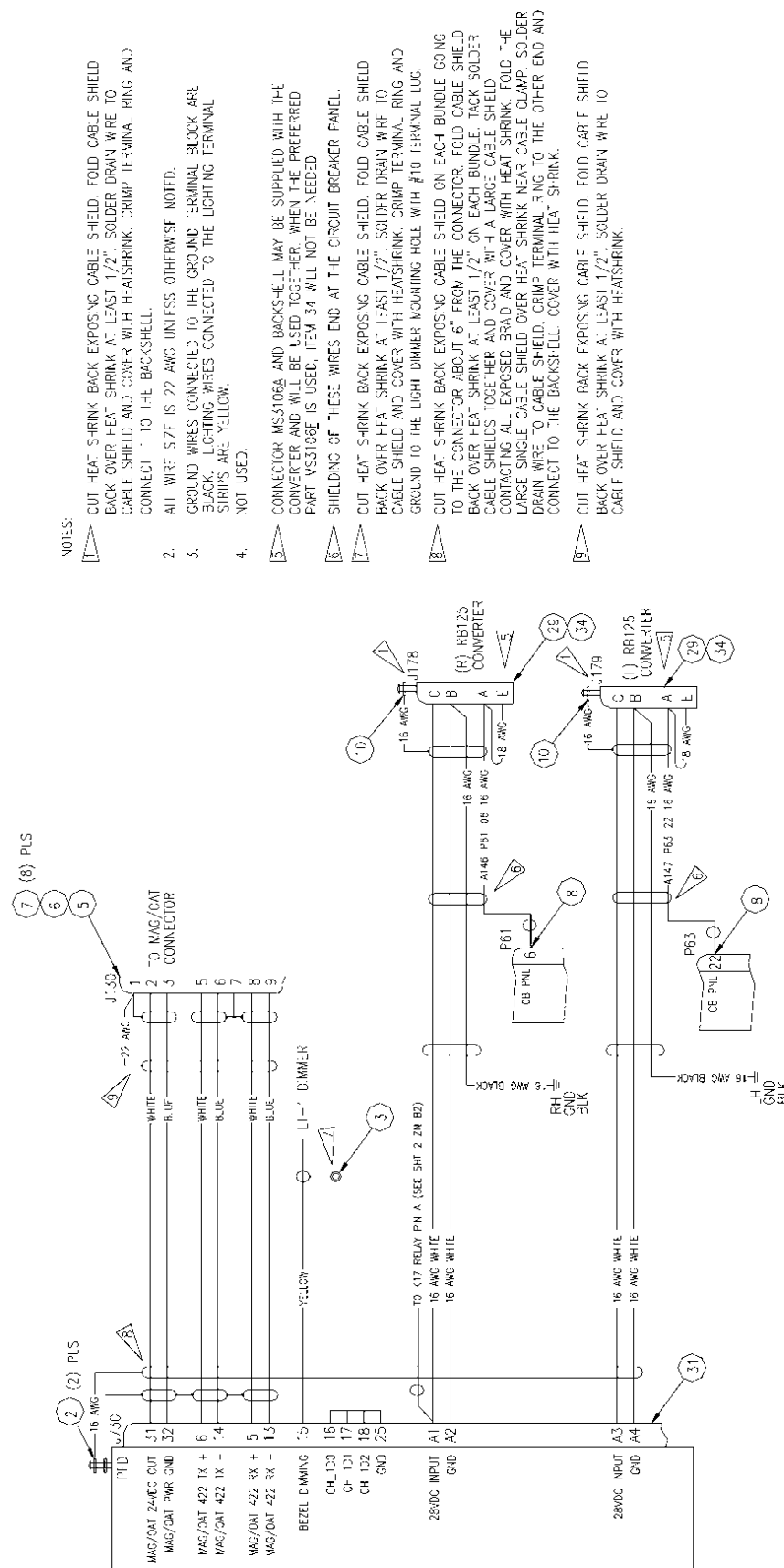
34	2	97-3057-1007	BACKSHELL, SIZE 14, SOLDER TYPE	
33	70	M22759/16-16-9	WIRE, ELECTRIC, MED. WT., 600 V, 16 ga., WHITE	
32	1	2D44F10GEO	CONNECTOR, D-SUB, 44 FEMALE, W/HOOD AND SOCKETS, POSITRONIC	
31	1	36C36W4-20610-0215	CONNECTOR, COMBO, 36W4, W/HOOD AND SOCKETS, EXTENDED BACKSHELL, POSITRONIC	
30	1	2D78F10GEO	CONNECTOR, D-SUB, 78 FEMALE, W/HOOD AND SOCKETS, POSITRONIC	
29	2	MS3106F14S-5S	CONNECTOR PLUG, ENVIRO, STRAIGHT, 5-SOCKET W/ STRAIN RELIEF	
		MS3106A14S-5S	CONNECTOR PLUG, STRAIGHT	
28	AR	8662	CABLE SHIELD (BRAID), 25/32" NOMINAL I.D. BELDEN	
27	AR	8668	CABLE SHIELD (BRAID), 11/64" NOMINAL I.D. BELDEN	
26	AR	HIX-1/2	HEAT SHRINK TUBE, 1/2" NOMINAL I.D.	
25	AR	HIX-3/8	HEAT SHRINK TUBE, 3/8" NOMINAL I.D., EDMO	
24	AR	HIX-1/4	HEAT SHRINK TUBE, 1/4" NOMINAL I.D., EDMO	
23	AR	8669	CABLE SHIELD (BRAID), 1/2" NOMINAL I.D. BELDEN	
22	AR	866	CABLE SHIELD (BRAID), 13/64" NOMINAL I.D. BELDEN	
21	AR	8663	CABLE SHIELD (BRAID), 7/32" NOMINAL I.D. BELDEN	
20	AR	8660	CABLE SHIELD (BRAID), 7/8" NOMINAL I.D. BELDEN	
19	1	770144-5	SOCKET, 20-14 AWG, GOLD, AMP	
		770144-1	SOCKET, 20-14 AWG, BRASS, AMP	
18	2	M22759/16-22-9	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., WHITE	
17	9	M22759/16-22-4	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., YELLOW	
16	5	M22759/16-18-0	WIRE, ELECTRIC, MED. WT., 600 V, 18 ga., BLACK	
15	5	M22759/16-16-0	WIRE, ELECTRIC, MED. WT., 600 V, 16 ga., BLACK	
14	21	M27500/18-22-3	CABLE, ELECTRIC, SHIELDED, 22 ga., THREE CONDUCTOR	
13	102	M27500/18-22-2	CABLE, ELECTRIC, SHIELDED, 22 ga., TWO CONDUCTOR	
12	17	M27500/18-22-1	CABLE, ELECTRIC, SHIELDED, 22 ga., SINGLE CONDUCTOR	
11	60	M27500/18-16-2	CABLE, ELECTRIC, SHIELDED, 16 ga., TWO CONDUCTOR	
10	2	36158	TERMINAL RING, 14-16 AWG, #6 STUD, BLUE	
9	AR	HIX-3/4	HEAT SHRINK TUBE, 3/4" NOMINAL I.D., EDMO	
8	2	56099-4	PIN, 18-16 AWG, AMP	
7	8	66105-4	SOCKET, 24-20 AWG, AMP	
6	1	206966-1	BACKSHELL, SIZE 13, CPC, AMP	
5	1	206708-1	PLUG, 3-9 PIN, CPC, SIZE 13, AMP	
4	1	W389CX-13	RELAY, SPDT, 24 VOLT	
3	1	36154	TERMINAL RING, 22-16 AWG, #10 STUD, RED	
2	3	320882	TERMINAL RINGS, 22-16 AWG, #4 STUD, RED	
1	3	320559	BUTT SPLICE	
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL
PARTS LIST				

Detail 34 - 16 Primary Flight Display Wiring, Entegra (LB53344809A2) (1/8)

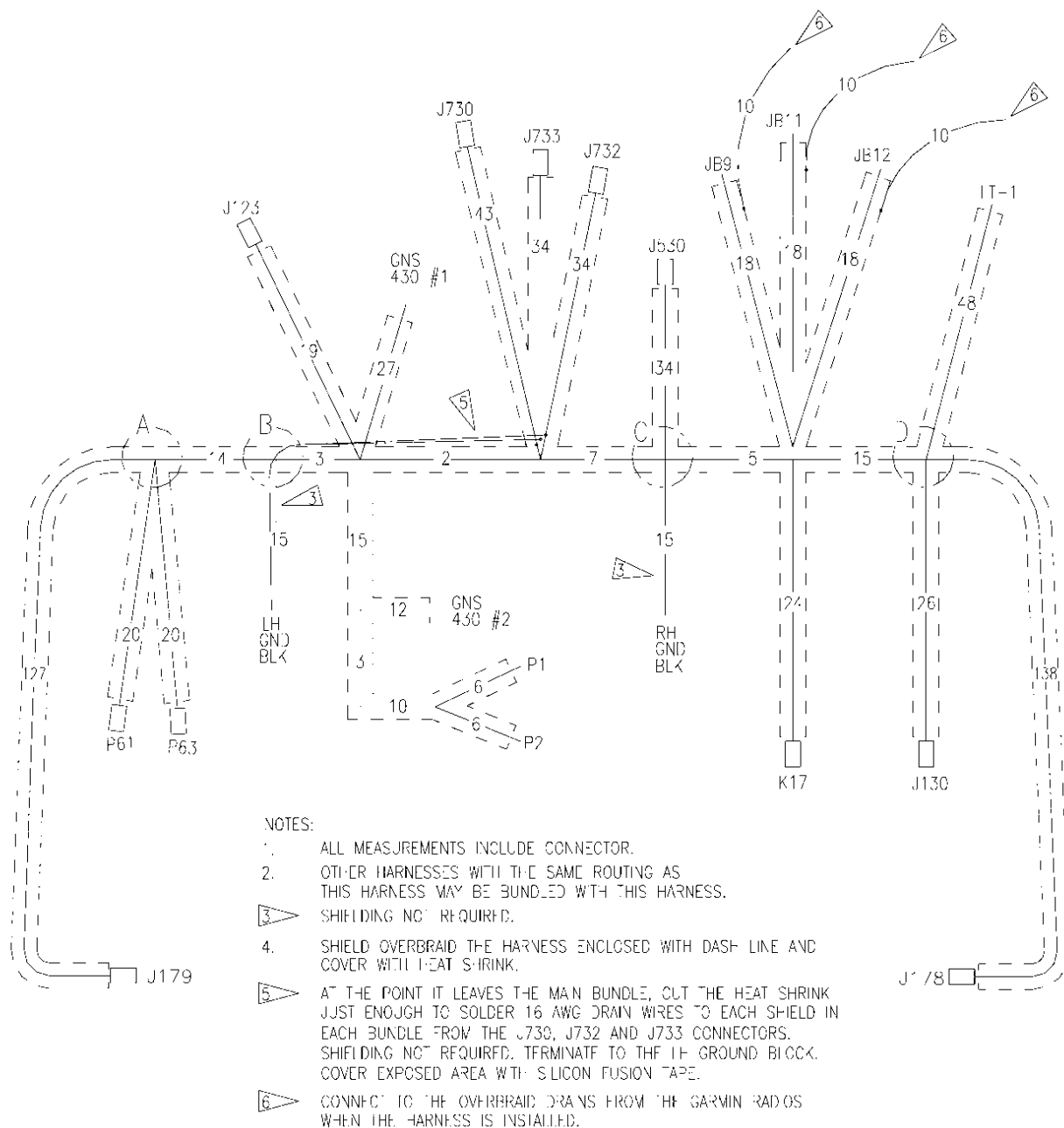
- NOTES:
1. TERMINATE THE SHIELDS, STAGGERED OUTSIDE OF THE BACKSHELL. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD ON EACH BUNDLE GOING TO THE CONNECTOR ABOUT 6" FROM THE CONNECTOR. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH BUNDLE. TACK SOLDER CABLE SHEETS TOGETHER AND COVER WITH A LARGE CABLE SHELL. CONTACTING ALL EXPOSED BRAID AND COVER THE BACKSHELL CLAMP WITH CABLE SHIELD. TIE WRAP THE CABLE SHIELD TIGHT TO THE BACKSHELL CLAMP AND COVER ALL OF THE EXPOSED CABLE SHIELD WITH HEAT SHRINK.
 2. ALL WIRE SIZE S 22 AWG UNLESS OTHERWISE NOTED.
 3. NOT USED.
 4. DASH ENCLOSEURE SHOWS REFERENCE TO ASSOCIATED DWG.
 5. SOLDER SPlice THE WIRES AS CLOSE TO THE BACKSHELL AS POSSIBLE AND COVER WITH (2) LAYERS OF HEAT SHRINK. TERMINALS ARE SUPPLIED WITH THE JUNCTION BLOCKS.
 6. PART OF GNS 430 INSTALLATION KIT.
 7. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD. OLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEATSHRINK. CRIMP TERMINAL RING AND GROUND TO THE 110V SHIMMER MOUNTING HOLES WITH #10 TERMINAL JOINT.
 8. PART OF CSC36W4120000 CONNECTOR FROM SHIT 3.
 9. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD AS CLOSE TO THE CONNECTOR AS POSSIBLE. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEAT SHRINK. CRIMP TERMINAL RING AND CONNECT IT TO THE GROUND INSIDE THE BACKSHELL.
 10. IF INSTALLED FROM THE AUTOPILOT SIDE OF THE CONNECTOR, REMOVE EXISTING WIRE, CAP AND STOP.
 11. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD ON EACH BUNDLE GOING TO THE CONNECTOR ABOUT 6" FROM THE CONNECTOR. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH BUNDLE. TACK SOLDER CABLE SHEETS TOGETHER AND COVER WITH A LARGE CABLE SHELL. CONTACTING ALL EXPOSED BRAID AND COVER WITH HEAT SHRINK. FOLD THE LARGE SINGLE CABLE SHIELD OVER HEAT SHRINK APPROX. 4" FROM THE WIRE ENDS. SOLDER DRAIN WIRE TO CABLE SHIELD. CRIMP TERMINAL RING TO THE OTHER END AND CONNECT TO THE BACKSHELL. COVER WITH HEAT SHRINK.
 12. STOP AND TIE J23 PIN 5 WIRE ON ITS WIRE BUNDLE FOR FUTURE USE.
 13. TIE IS MADE AT THE JUNCTION BLOCKS WHEN HARNESS IS INSTALLED.



Detail 34 - 16 Primary Flight Display Wiring, Entegra (2/8)



Detail 34 - 16 Primary Flight Display Wiring, Entegra (3/8)



FINISHED HARNESS ASSEMBLY
(SCALE: N.T.S.)

Detail 34 - 16 Primary Flight Display Wiring, Entegra (4/8)

GFNFRA. NOTFS:

1. SEE TABLE 1 FOR SHIELD AND HEAT SHRINK SIZF.

TABLE 1		
SW/20	SHEED SIZE	HEAT SHRINK SIZE
(A)	1/16"	1/8"
(B)	1/8"	1/4"
(C)	7/32"	3/8"
(D)	1/2"	1/2"
(E)	1/2"	5/8"

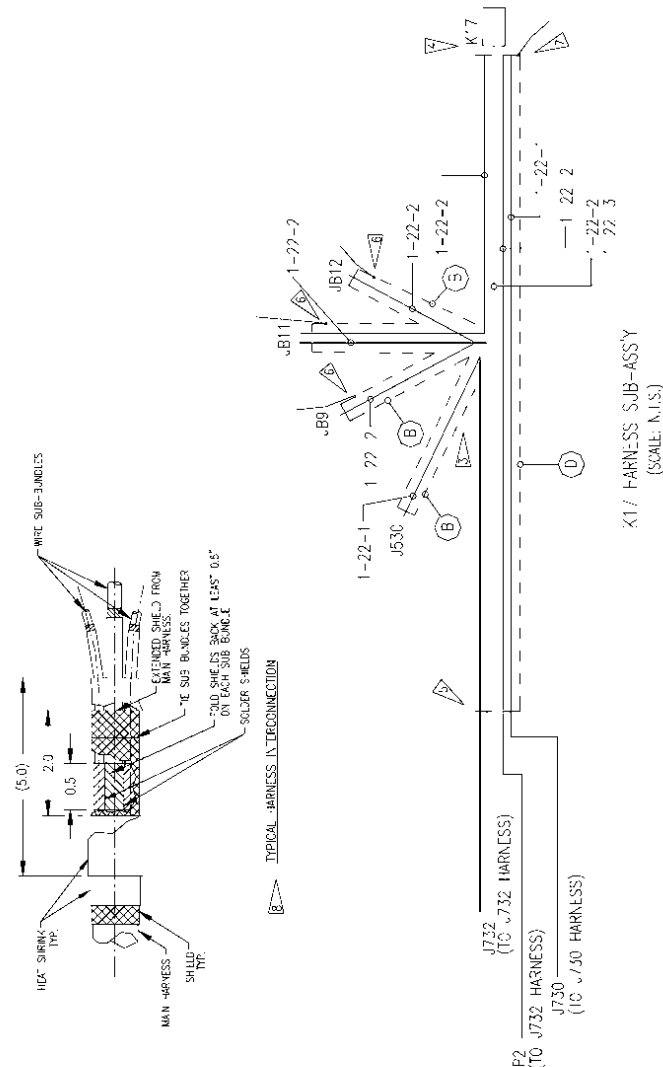
2. REFER TO SHEET 4 FOR THE LENGTH OF INDIVIDUAL HARNESS.
3. ALL DRAIN WIRE SIZE S 22 AWG AND 18" LONG UNLESS OTHERWISE NOTED.

4. LEGENDS: WIRE IDENTIFICATION X-XX-X
WHERE: (X) NO. OF WIRS - (XX) WIRE GAUGE - (X) NO. OF CONDUCTOR

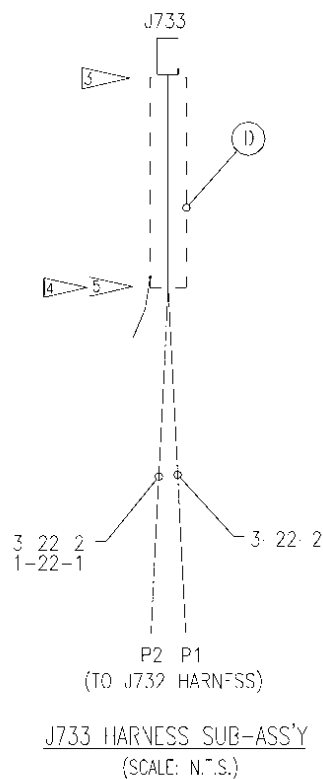
5. CARVER "WC OR FACH SUB-BUNDLES TERMINATE" C-UI HEATSHRINK BACK EXPOSING CARVER S-51FD ON EACH SUB-BUNDLE (± 6" BACK IF THE TERMINATED FIND). FOLD CARF SHIELD BACK OVER LINE. SHRINK A MINIMUM OF 1/2" ON EACH BUNDLE. "ACK-SOLIDS" SHIELD SHIELDS TOGETHER AND COVER WITH A LARGER CARF S-51 BUNDLE, CONTACTING ALL EXPOSED BRAID AND COVER WITH HEAT SHRINK, COMPLETE. "O-ER TERMINATIONS AS SPECIFIED IN THE INSTRUCTIONS FOR EACH SUB-ASSEMBLY."

INSTRUCTIONS:

1. CUT WIRES, SHIELD AND HEAT SHRINK ACCORDINGLY.
2. START TO WORK ON THE SMALL HARNESS ALL THE WAY TO THE MAIN HARNESS.
3. PREPARE EACH WIRE SUB BUNDLE WITH AT LEAST 0.5" EXTRA LONG S.H.I.E.L.D. AS SHOWN ON THE HARNESS INTERCONNECTION DETAIL.
4. SOLDER WIRES TO A-1 PLAYS AND COWLS WITH HEAT SHRINK ON EACH CONNECTION.
5. PREPARE WIRE BUNDLE WITH AT LEAST 0.5" EXTRA LONG S.H.I.E.L.D.
6. SOLDER 10" LONG 22 AWG DRAIN WIRES (BLACK) TO THE SHIELDS OF EACH JUB, J3-1 AND J8-7 SHIFTS BEFORE SHRINKING THE HEAT SHRINK.
7. SOLDER A 24" LONG 22 AWG DRAIN WIRE (BLACK) TO THE S.H.I.E.L.D BEFORE SHRINKING THE HEAT SHRINK.
8. FOLD SHEET BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH SUB-BUNDLE. TACK SOLDER CABLE S.H.I.E.L.DS TOGETHER AND COVER THE SOLDER JOINTS WITH S.H.I.E.L.DS WITH THE MAIN HARNESS SHEET AT LEAST 2" COVER WITH A HEAT SHRINK.



Detail 34 - 16 Primary Flight Display Wiring, Entegra (5/8)



GENERAL NOTES FROM SHEET 5 APPLY

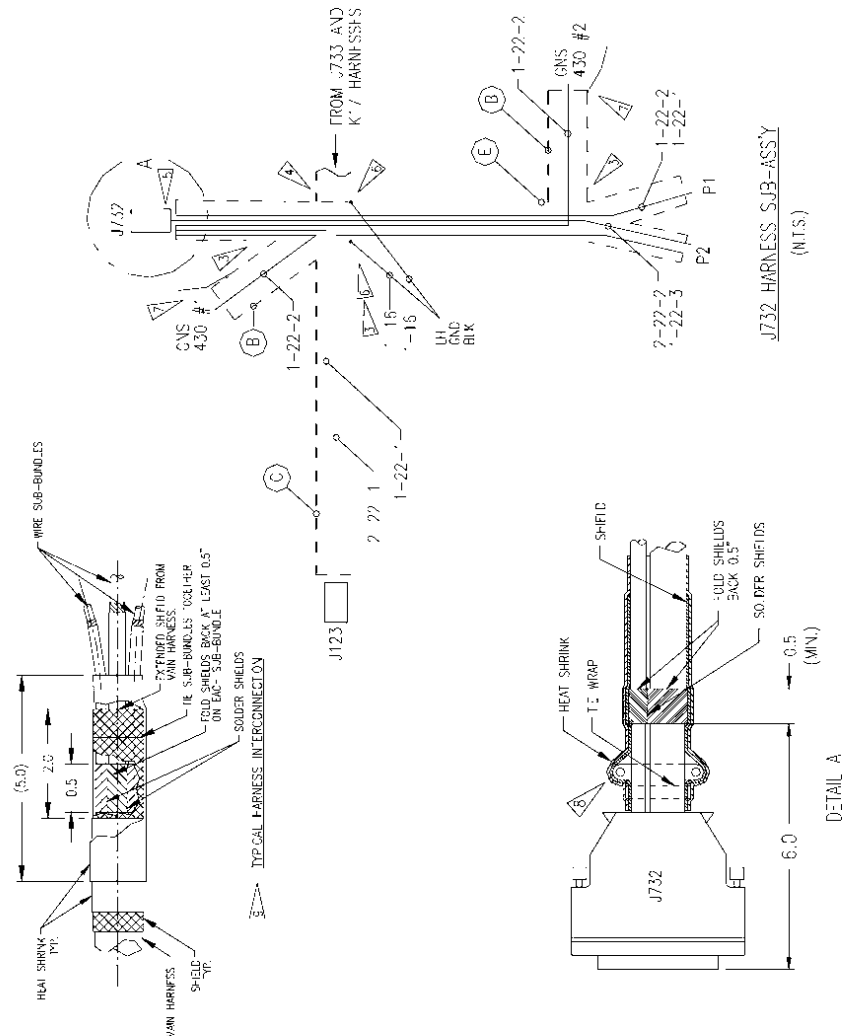
INSTRUCTIONS:

1. CUT WIRES, SHIELD AND HEAT SHRINK ACCORDINGLY.
2. CONNECT ALL WIRES TO J733 CONNECTOR.
3. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD AS CLOSE TO THE CONNECTOR AS POSSIBLE. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEAT SHRINK. CRIMP TERMINAL RING AND CONNECT IT TO THE GROUND INSIDE THE BACKSHELL.
4. PREPARE WIRE BUNDLE WITH AT LEAST 0.5" EXTRA LONG SHIELD.
5. FOLD THE CABLE SHIELD BACK AND SOLDER A 20" 16 AWG DRAIN WIRE (BLACK) TO J733 CONNECTOR.

Detail 34 - 16 Primary Flight Display Wiring, Entegra (6/8)

GENERAL NOTES FROM SHEET 5 APPLYINSTRUCTIONS:

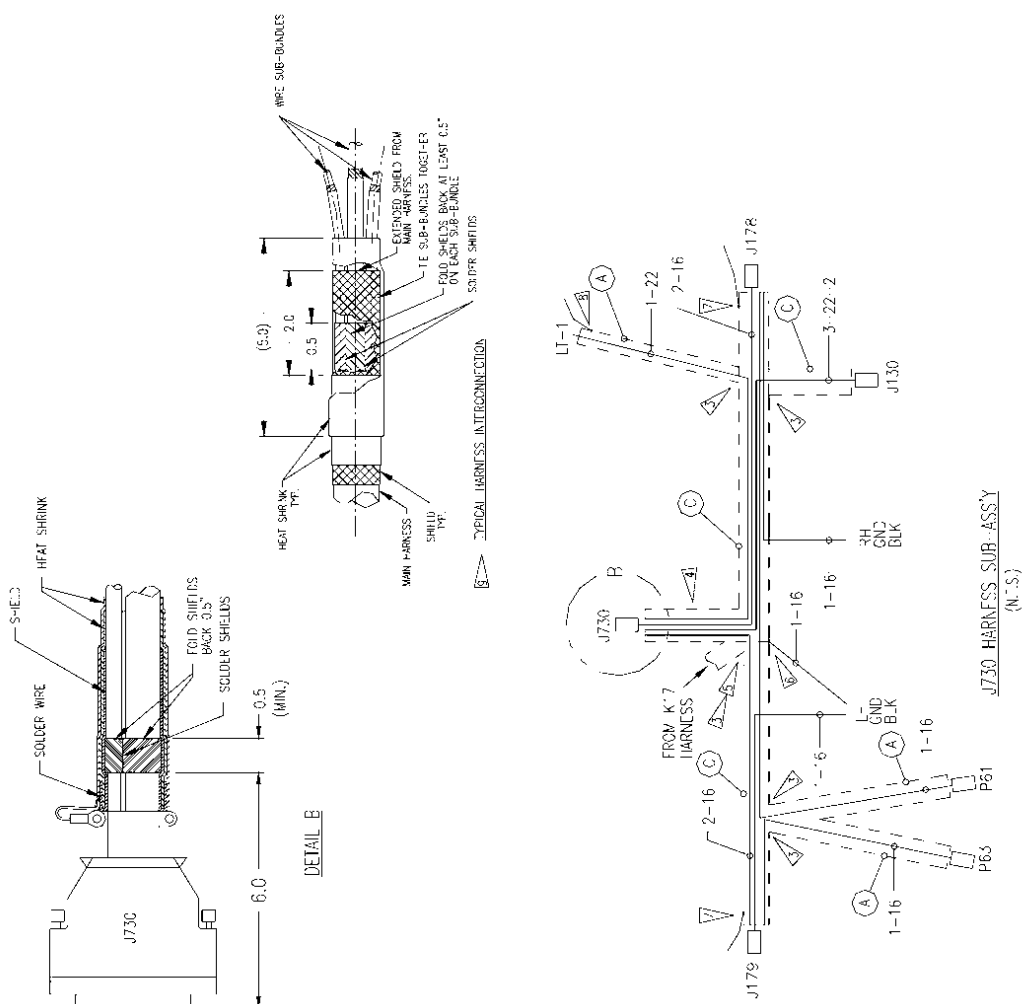
1. CUT WIRES, SHIELD AND HEAT SHRINK ACCORDINGLY.
2. START TO WORK ON THE SMALL HARNESS ALL THE WAY TO THE MAIN HARNESS.
3. PREPARE EACH WIRE SUB-BUNDLE WITH AT LEAST 0.5" EXTRA LONG SHIELD AS SHOWN ON THE HARNESS INTERCONNECTION DETAIL.
4. SLIDE J733 AND K17 BUNDLE TO THIS HARNESS BEFORE SHRINK THE J732 HARNESS.
5. TERMINATE THE SHIELDS, STAGGERED CUTS OF THE BACKSHIELD, CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD ON EACH BUNDLE GOING TO THE CONNECTOR ABOUT 6" FROM THE CONNECTOR, FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH BUNDLE, TACK SOLDER CABLE SHIELDS TOGETHER AND COVER WITH A LARGE CARF. SHIELD CONTACTING ALL EXPOSED BRAD AND COVER THE BACKSHIELD CLAMP WITH CABLE SHIELD, THE WRAP THE CABLE SHIELD TOGETHER THE BACKSHIELD CLAMP AND COVER ALL OF THE EXPOSED CABLE SHIELD WITH HEAT SHRINK.
6. CUT THE HEAT SHRINK JUST ENOUGH TO SOLDER 16 AWG DRAIN WIRES TO EACH BUNDLE OF THE J732 AND J733 CONNECTORS AT THE POINT IT LEAVES THE MAIN BUNDLE, SOLDERING NOT REQUIRED. TERMINATE TO THE L1 GROUND BLOCK, COVER EXPOSED AREA WITH SILICON TOSOL TAPE.
7. SOLDER 10" LONG 22 AWG DRAIN WIRES (BLACK) TO THE SHIELDS BEFORE SHRINKING THE HEAT SHRINK.
8. TRIM STRAIN RELIEF SCREW AS REQUIRED IF IT IS TOO LONG FOR HEAT SHRINK.
9. FOLD SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH SUB-BUNDLE, TACK SOLDER CABLE SHIELDS TOGETHER AND COVER THE SOLDER CABLE SHIELDS WITH THE MAIN HARNESS SHIELD AT LEAST 2". COVER WITH A HEAT SHRINK.

**Detail 34 - 16 Primary Flight Display Wiring, Entegra (7/8)**

GENERAL NOTES FROM SHEET 5 APPLY ✓

INSTRUCTIONS:

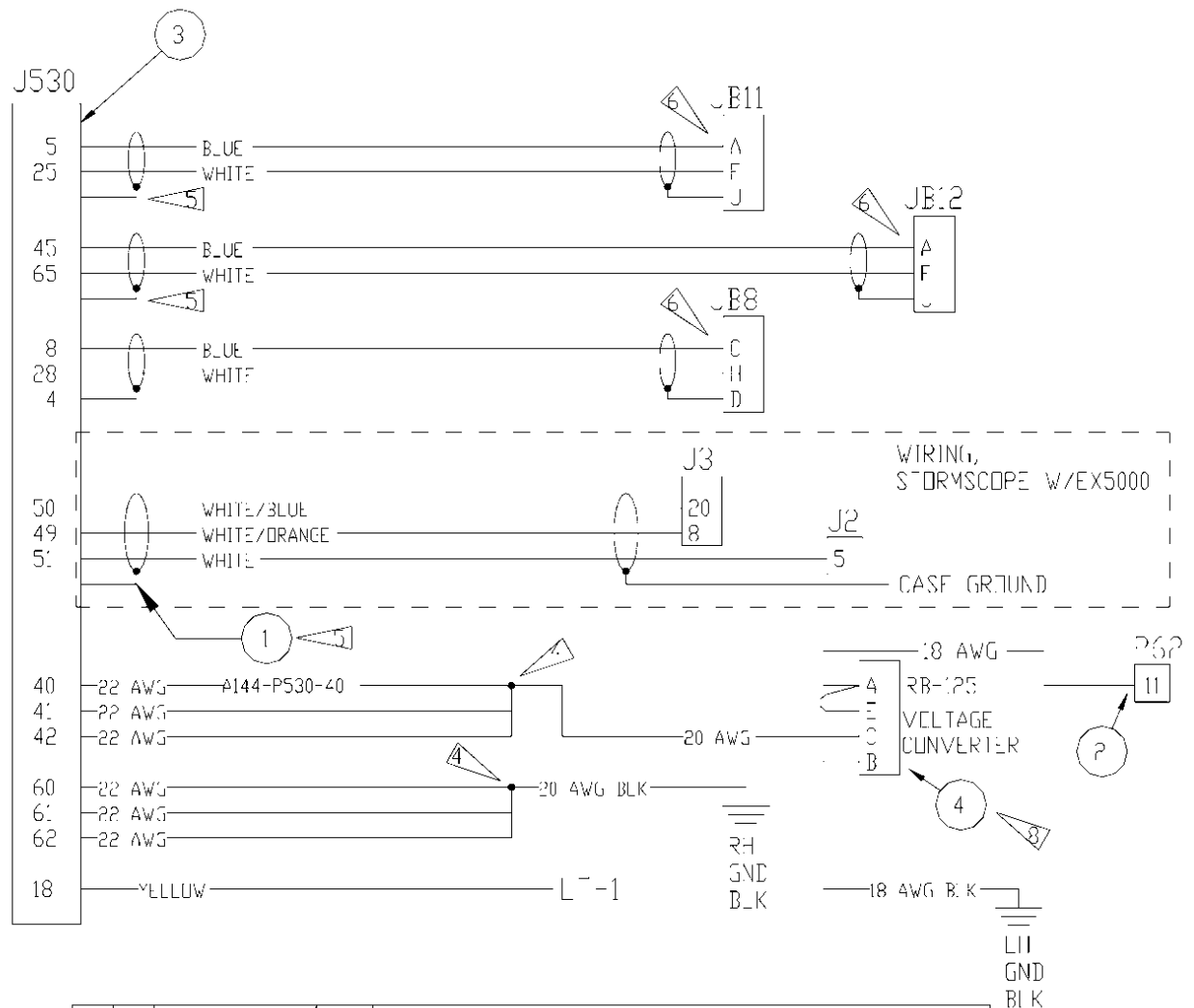
1. CUT WIRES, SHIELD AND HEAT SHRINK ACCORDINGLY.
2. START TO WORK ON THE SMA. - HARNESS ALL THE WAY TO THE MAIN HARNESS. PREPARE EACH WIRE SUB-BUNDLE WITH AT LEAST 0.5" EXTRA LONG SHIELD AS SHOWN ON THE HARNESS INTERCONNECTION DETAIL.
3. CUT HEAT SHRINK BACK EXPOSING CARBIF SHIELD ON EACH BUNDLE IF GOING TO TIE-CONNECTOR ABOUT 6" FROM THE CONNECTOR. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH BUNDLE. TACK SOLDER CABLE SHIELDS TOGETHER AND COVER WITH A LARGE CABLE SHIELD CONTACTING ALL EXPOSED BRAD AND COVER WITH 1" HEAT SHRINK. CUT TIE-CLAMP LARGE SINGLE CABLE BRAD OVER HEAT SHRINK NEAR CABLE CLAMP. SOLDER DRAIN WIRE TO CABLE SHIELD, CRIMP TERMINAL PLUG TO THE OTHER END AND CONNECT TO THE BACKSHEILD. COVER WITH HEAT SHRINK.
4. SLIDE A WIRE FROM K17 TO J/30 BUNDLE BEFORE SHRINK THE J/30 HARNESS.
5. CUT THE HEAT SHRINK JUST ENOUGH TO SOLDER A 16 AWG DRAIN WIRE (BLACK) TO J/30 CONNECTOR AT THE POIN. IT LEAVES THE MAIN BUNDLE. SHIELDING NOT REQUIRED. TERMINATE TO THE JT GROUND 3-LOCK COVER EXPOSED AREA WITH SILICON FUSION TAPE.
6. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD AND FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEATSHRINK. CRIMP TERMINAL RING AND CONNECT IT TO THE BACKSHEILD.
7. CUT HEAT SHRINK BACK EXPOSING CABLE S-HIELD AND FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEATSHRINK. CRIMP TERMINAL RING AND GROUND TO THE EGT DYMER MOUNTING HOLE WITH #10 TERMINAL LUG.
8. FOLD SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH SUB-BUNDLE. TACK SOLDER CABLE SHIELDS TOGETHER AND COVER THE SOLDER CABLE SHIELDS WITH THE MAIN HARNESS SHIELD AT LEAST 2". COVER WITH A HEAT SHRINK.



Detail 34 - 16 Primary Flight Display Wiring, Entegra (8/8)

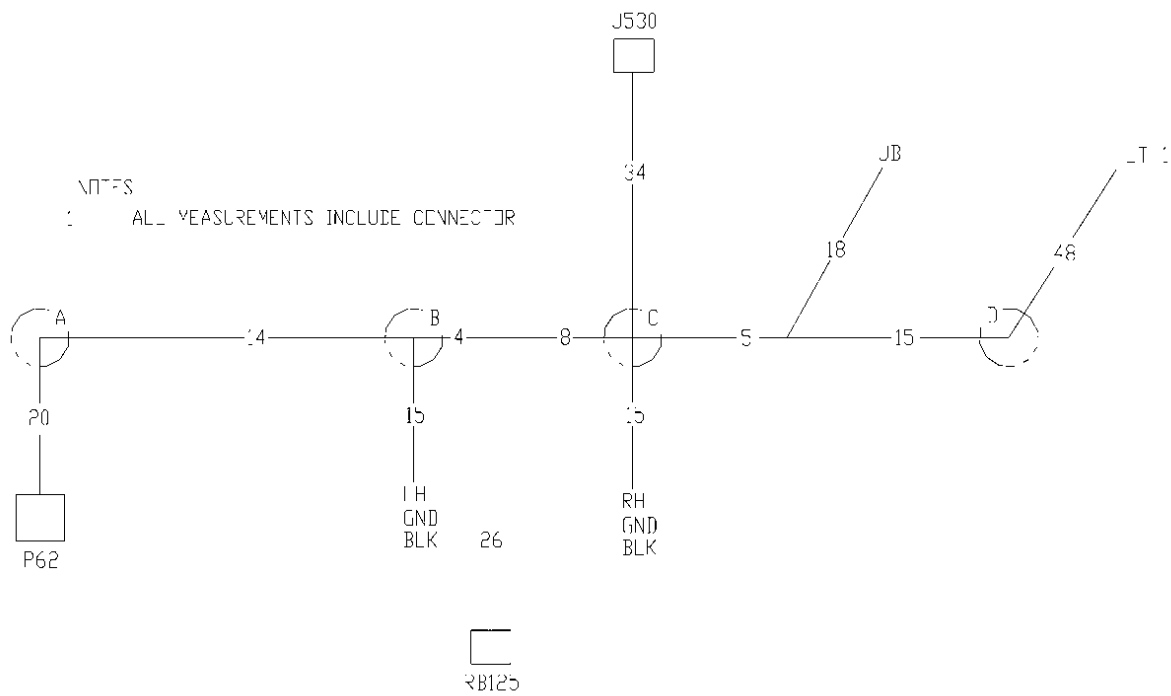
NOTES:

- 1 ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
- 2 NPT USED.
- 3 ALL MEASUREMENTS INCLUDE CONNECTOR.
- 4 SOLDER SPLICED THE (4) WIRES INSIDE THE P530 CONNECTOR BACKSHELL AND COVER WITH (2) LAYERS OF HEAT SHRINK.
- 5 TIE SHIELDS TOGETHER AND TERMINATE UNDER A CONNECTOR BACKSHELL SCREW WITH A RING TERMINAL.
- 6 TERMINALS ARE SUPPLIED WITH THE JUNCTION BLOCKS.
- 7 NOT USED.
- 8 CONNECTOR AND BACKSHELL ARE SUPPLIED WITH THE BOOSTER.



10	15'	M25200/18-22-2	CABLE, ELECTRIC, SHIELDED, 22 ga. TWJ CONDUCTOR
9	3'	M22759/16-22-9	WIRE, ELECTRIC, MED. WT., 600 V., 20 ga., WHITE
8	4'	M22759/16-18-0	WIRE, ELECTRIC, MED. WT., 600 V., 18 ga., BLACK
7	3'	M22759/16-20-0	WIRE, ELECTRIC, MED. WT., 600 V., 20 ga., BLACK
6	7'	M22759/16-22-4	WIRE, ELECTRIC, MED. WT., 600 V., 22 ga., YELLOW
5	7'	M22759/16-22-9	WIRE, ELECTRIC, MED. WT., 600 V., 22 ga., WHITE
4		INSTALL KIT	REF. LB53344/03, RB125 BOOSTER
3	1	DD78F10GE0	CONNECTOR, J-SLB, 78 FEMALE, WITH HOOD AND SOCKETS, POSITRONIC
2	1	56103-4	PIN, 24-20 AWG, AMP
1	1	3P068P	TERMINAL RING, 22-16 AWG, 44 STUD, RFD
ITEM QTY		PART NUMBER	REV. DESCRIPTION or MATERIAL
PARTS LIST			

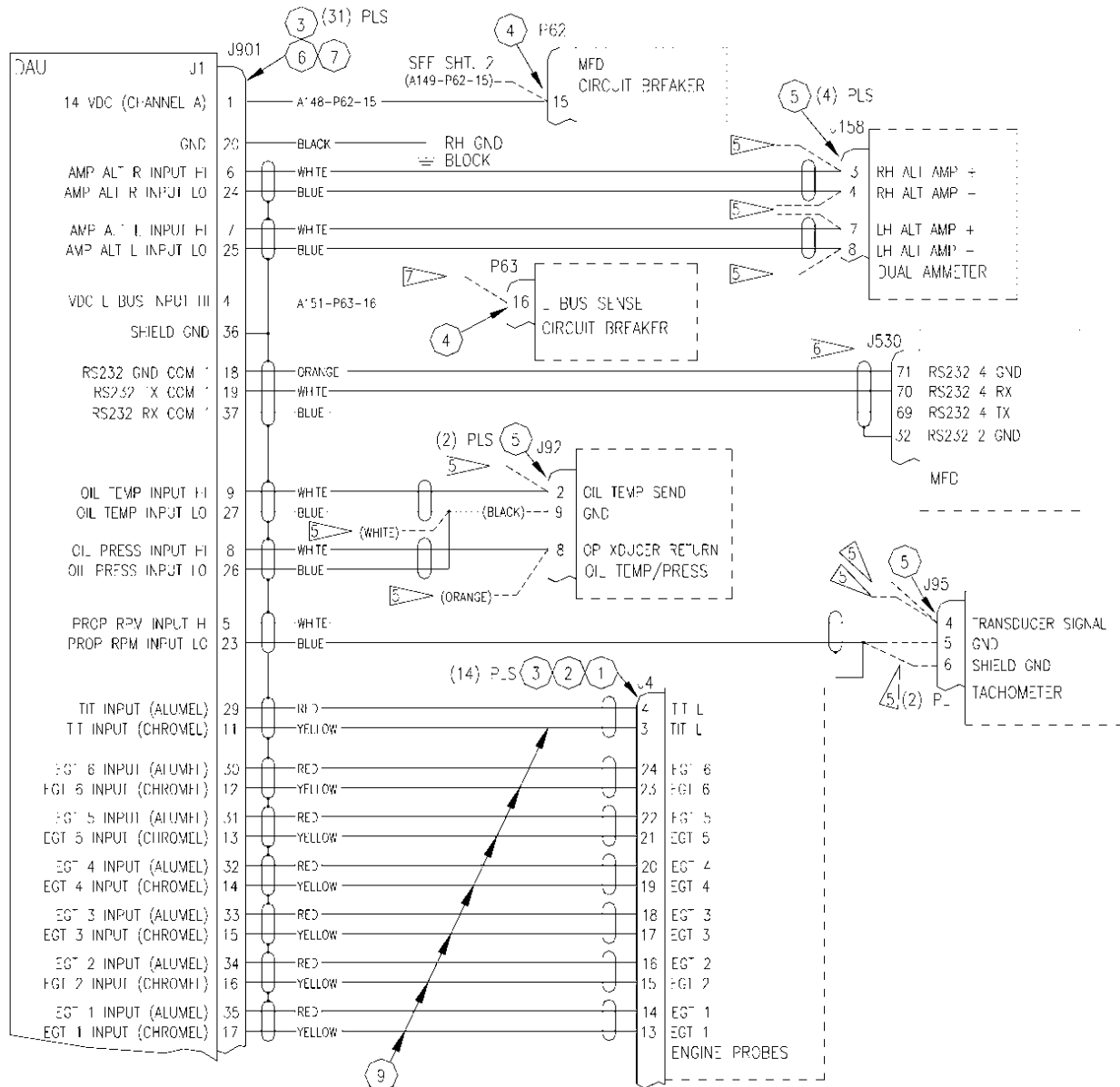
Detail 34 - 17 EX5000, MFD, Wiring (LB53344702C) (1/2)



Detail 34 - 17 EX5000, MFD, Wiring (2/2)

NOTES:

1. NOT USED.
2. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
3. GROUND WIRES CONNECTED TO THE GROUND TERMINAL BLOCK ARE BLACK.
4. DASHED LINE FOR REFERENCE ONLY.
5. REFERENCE TO WIRING SHOWN ON DETAIL 77-2 (ENGINE INSTRUMENTS WIRING).
6. TERMINALS ARE SUPPLIED WITH POSITRONIC CONNECTOR (DD7870000).
7. REFERENCE TO WIRING SHOWN ON DETAIL 24-4 (CIRCUIT BREAKER PANEL WIRING).



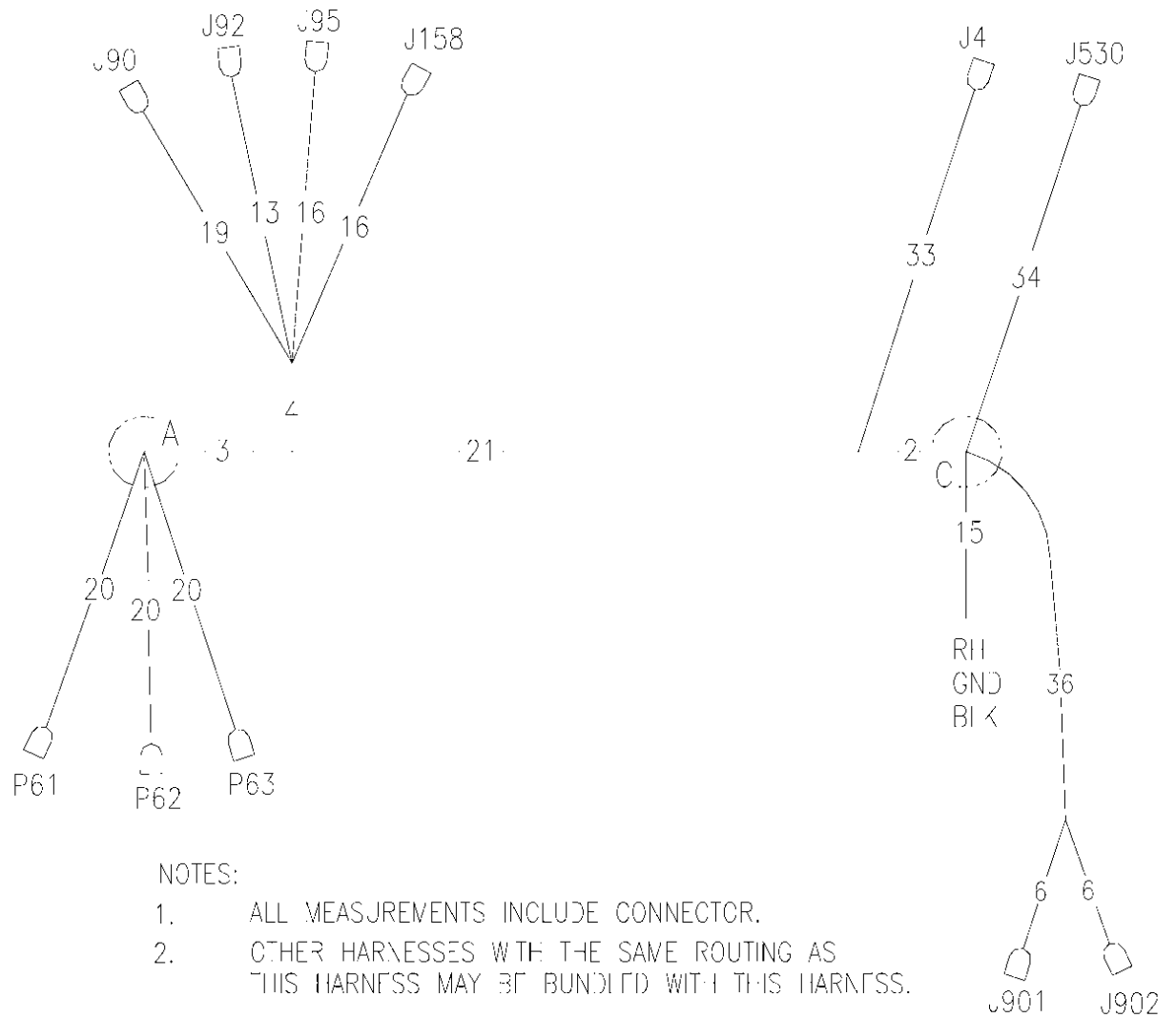
13	6.5' M27500/18-22-3	CABLE, ELECTRIC, SH-ELDED, 22 ga., THREE CONDUCTOR
12	50' M27500/18-22-2	CABLE, ELECTRIC, SH-ELDED, 22 ga., TWO CONDUCTOR
11	65' M27500/16-22-5	WIRE, ELECTRIC, MED. WT., 600 V., 22 ga., WHITE
10	47' M27500/16-22-0	WIRE, ELECTRIC, MED. WT., 600 V., 22 ga., BLACK
9	40' 83952	HERMO-COUPLE WIRES, KX TYPE, ONE PAIR (RED & YELLOW) 20 AWG, BELDEN
8	4' FC60180	SOCKET, 6 AWG, POSITRONIC
7	2' 206478-4	BACKSHELL, D-CONNECTOR, SIZE 4
6	2' 205209-1	RECEPTACLE, 37 PIN, HDP-20 CONNECTOR, SIZE 4
5	7' 56362-4	SOCKET, 18-14 AWG, AMP
4	3' 56361-4	PIN, 18-14 AWG, AMP
3	77' 235090-1	SOCKET, 24-20 AWG, AMP
2	1' 236070-1	BACKSHELL, CPC, SIZE 7, AMP
1	1' 236038-1	RECEPTACLE, SIZE 17, 28 PIN, REV. SFX, CPC, FREE HANGING, AMP
ITEM QTY PART NUMBER		REV.
		DESCRIPTION or MATERIAL
		PARIS LUS

Detail 34 - 18 Data Acquisition Unit Wiring, EX5000 MFD (LC53344902B) (1/3)



1. REFERENCE TO WIRING SHOWN ON DETAIL 77-2 (ENGINE INSTRUMENTS WIRING).
2. DASHED LINE FOR REFERENCE ONLY.
3. COVER WITH HEAT-SHRINK SLEEVE OVER EXPOSED CRIMPED TERMINAL SECTION.
4. REFERENCE TO WIRING SHOWN ON DETAIL 24-4 (CIRCUIT BREAKER PANEL WIRING).

Detail 34 - 18 Data Aquisition Unit Wiring, EX5000 MFD (2/3)

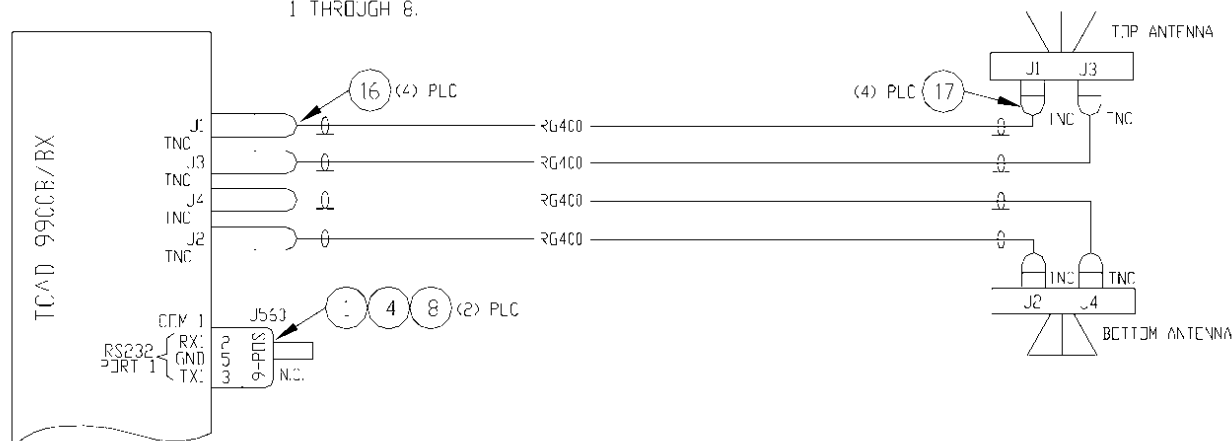


Detail 34 - 18 Data Acquisition Unit Wiring, EX5000 MFD (3/3)

NOTES:

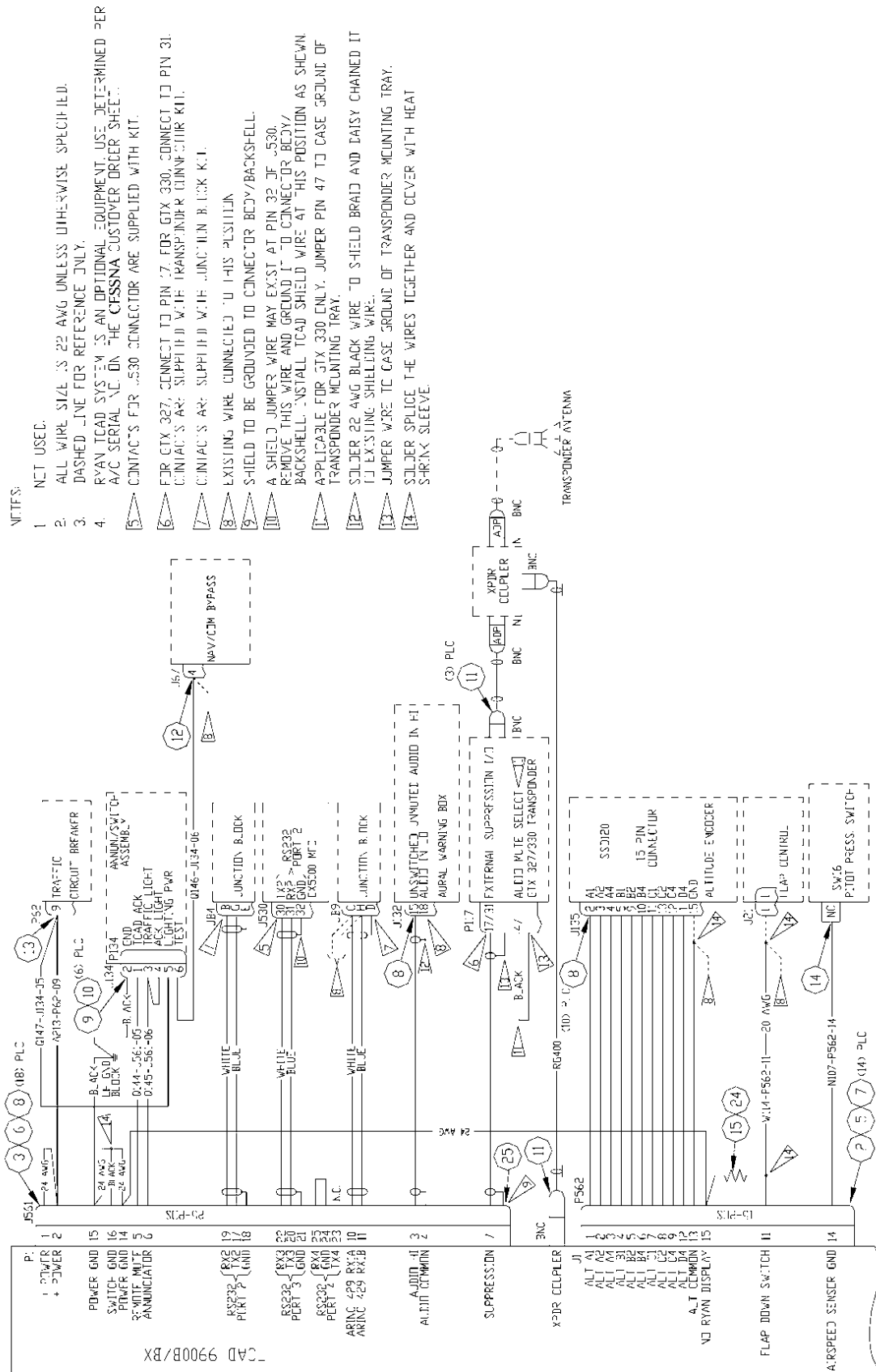
1. NOT USED.
2. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
3. NOT USED.
4. RYAN TCAD SYSTEM IS AN OPTIONAL EQUIPMENT. USE DETERMINED PER 4/C SERIAL NO. ON THE CESSNA CUSTOMER ORDER SHEET.

RYAN KIT P/N 62-2031 MAY BE USED AS ALTERNATIVE PARTS FOR ITEMS 1 THROUGH 8.



25	1	32C882	TERMINAL, RING, 22-18 AWG, AMP
24	AR	1/4	SLEEVE, HEAT-SHRINKABLE, 1/4"
23	47	M2750C/18-22-2	CABLE, ELECTRIC, SHIEDED, 22 ga., TWO CONDUCTOR
22	34	M2750C/18-22-2	CABLE, ELECTRIC, SHIEDED, 22 ga., SINGLE CONDUCTOR
21	18	M22759/16-24-9	WIRE, ELECTRIC, MED. WT., 600 V, 24 ga., WHITE
20	250	M22759/16-22-9	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., WHITE
19	20	M22759/16-22-0	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., BLACK
18	51	R5400	CABLE, COAXIAL
17	4	31-2381	PLUG, RIGHT ANGLE, TNC, AMPHENOL
16	4	31-2373	PLUG, STRAIGHT, TNC, AMPHENOL
15	1	CF1/4-821	RESISTOR, 82C OHM, 1/4 W, 5 %, KOA
14	1	640917-1	CONNECTOR, QUICK, 187, 22-16 AWG
13	1	66361-4	PIN, 18-14 AWG, AMP
12	1	66362-4	SOCKET, 18-14 AWG, AMP
11	4	225395-6	PLUG, STRAIGHT BNC, RG400, AMP
10	6	794016-1	SOCKET, 24-18 AWG, AMP
9	1	770356-1	RECEPTACLE, 3-POS, FREE-HANGING, AMP
8	31	2C5090-1	SOCKET, 24-20 AWG, AMP
7	14	205089-1	PIN, 24-20 AWG, AMP
6	1	748677-3	BACKSHELL, PLATED PLASTIC, SIZE 3, AMP
5	1	748677-2	BACKSHELL, PLATED PLASTIC, SIZE 2, AMP
4	1	748677-1	BACKSHELL, PLATED PLASTIC, SIZE 1, AMP
3	1	205207-4	RECEPTACLE, D-SUB, 25 POS, AMP
2	1	205206-1	PLUS, D-SUB, 15-POS, AMP
1	1	205203-1	RECEPTACLE, D-SUB, 9-POS, AMP
ITEM QTY		PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

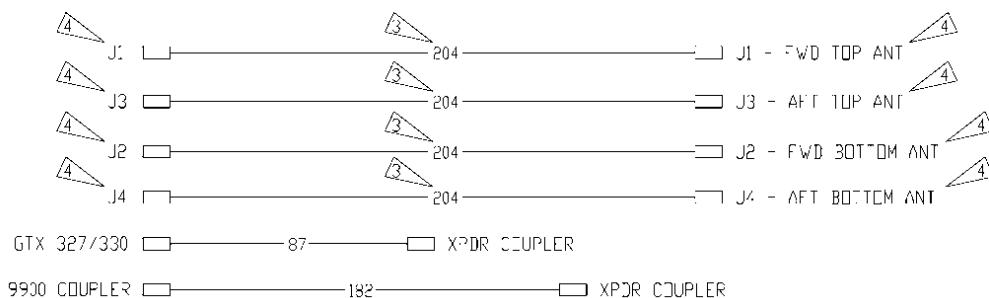
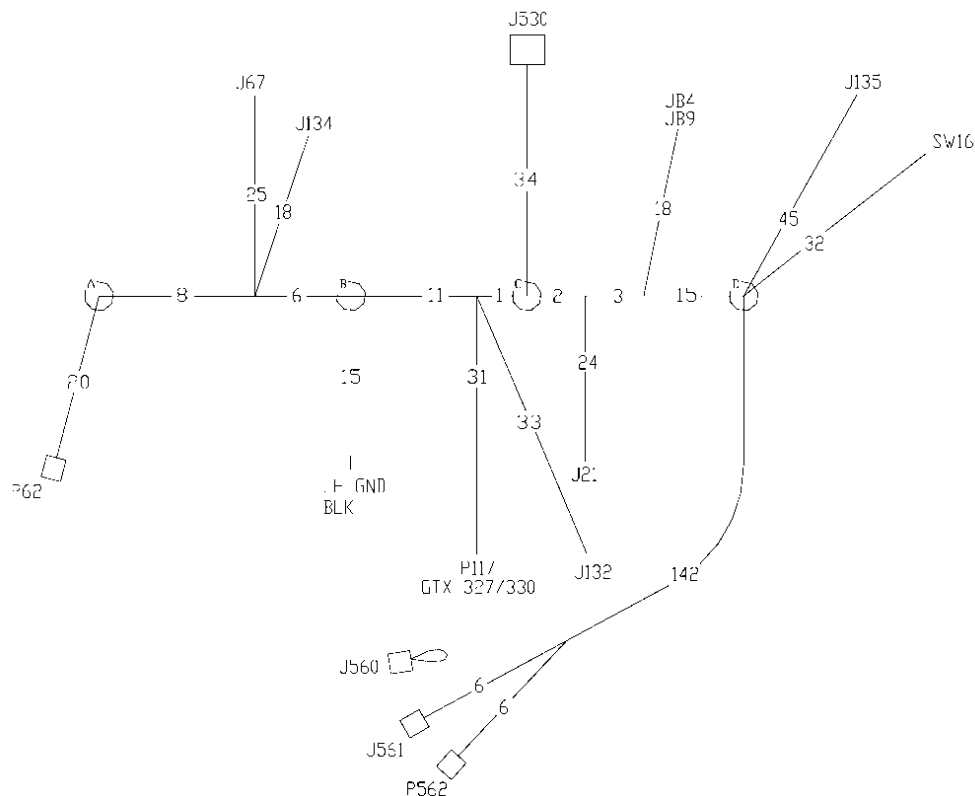
Detail 34 - 19 Ryan TCAD Wiring (LB53345201A) (1/3)



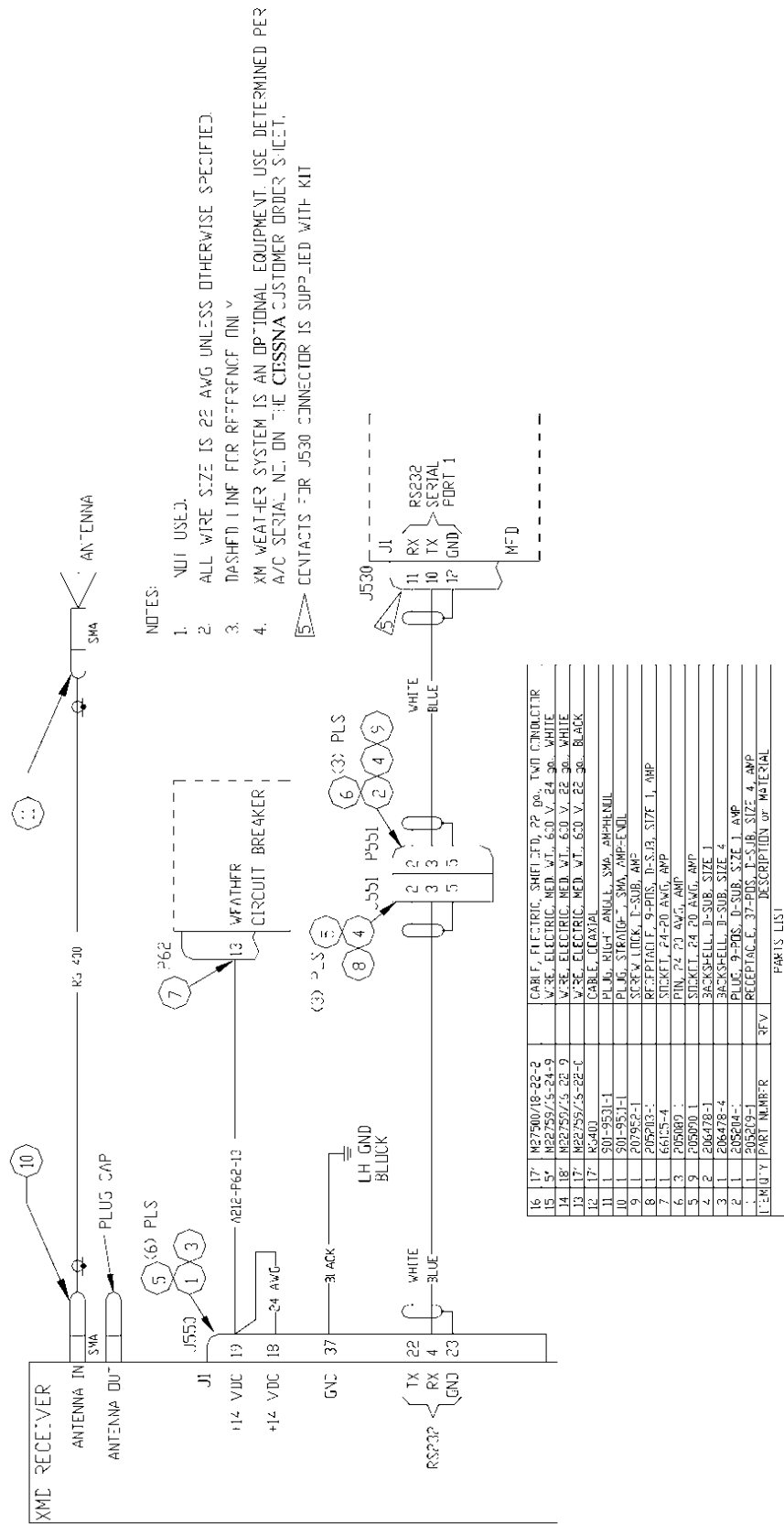
Detail 34 - 19 Ryan TCAD Wiring (2/3)

NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. THIS HARNESS MAY BE RUN IN SAME BUNDLE AS OTHER HARNESSES IN SAME LOCATION.
3. EACH OF THESE FOUR COAX CABLE LENGTHS MUST BE WITHIN + 1.0 INCH FROM SPECIFIED LENGTH SHOWN.
4. LABEL EACH CONNECTOR END AS SHOWN.



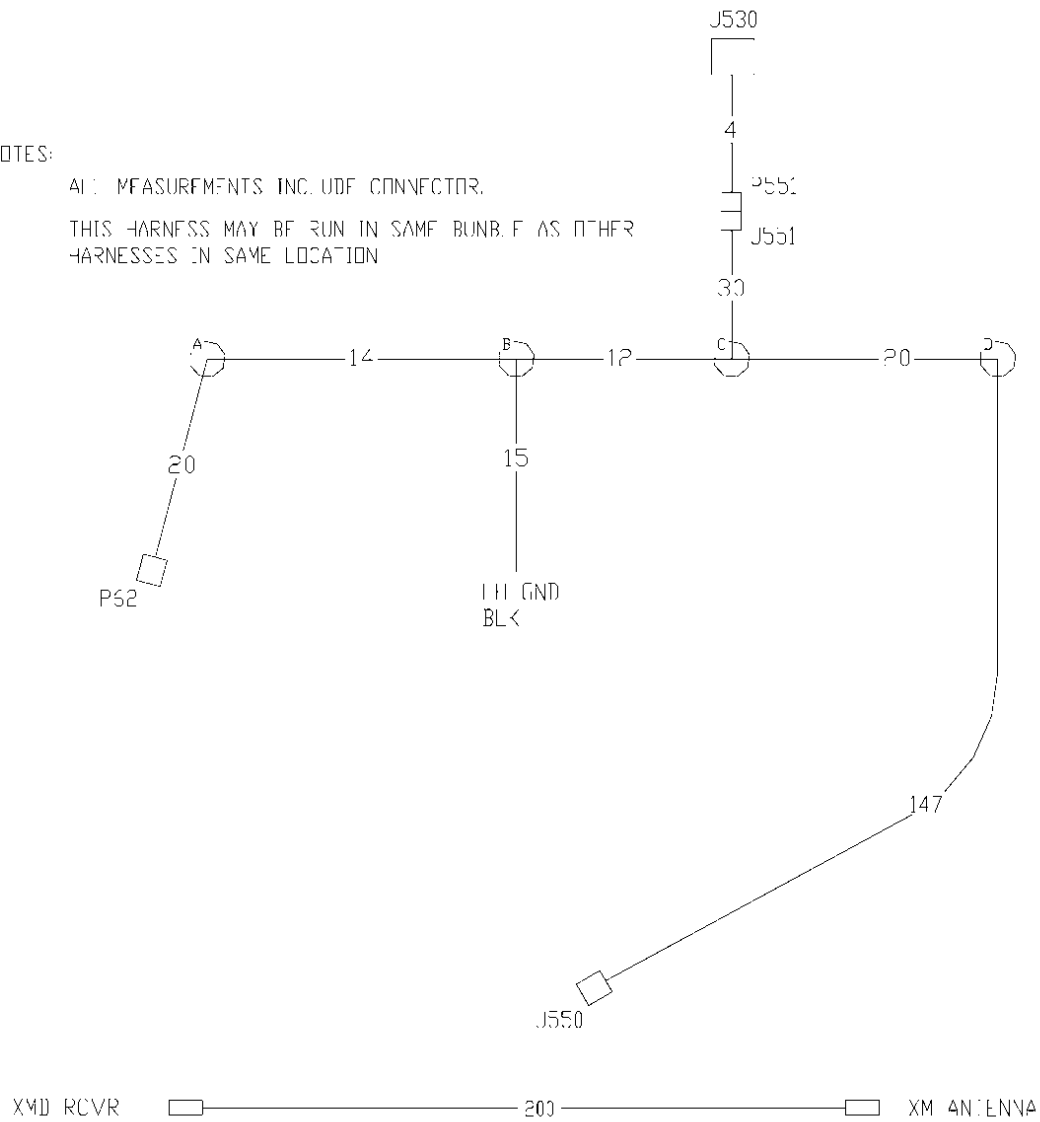
Detail 34 - 19 Ryan TCAD Wiring (3/3)



Detail 34 - 20 XM Weather Wiring (LB53345101-) (1/2)

NOTES:

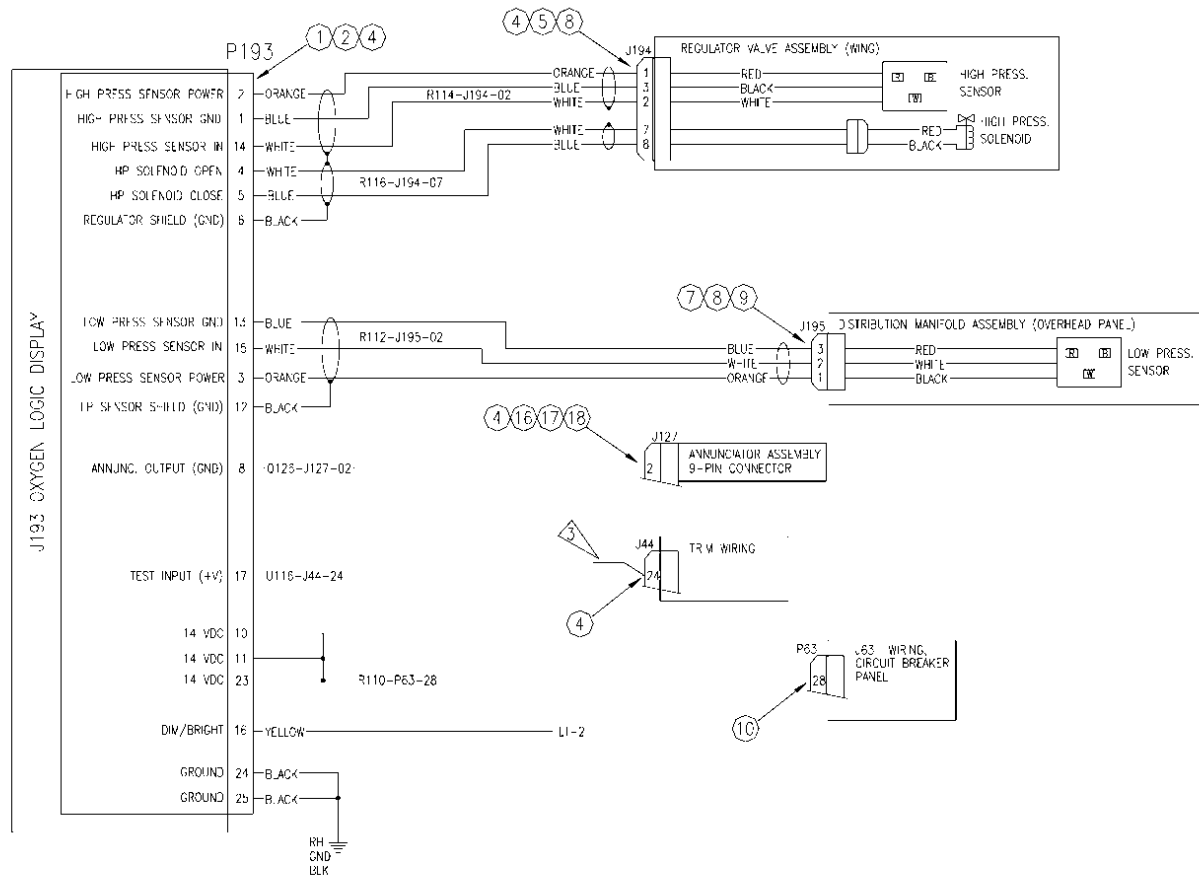
1. ALL MEASUREMENTS INCLUDING CONNECTOR.
2. THIS HARNESS MAY BE RUN IN SAME BUNDLE AS OTHER HARNESSES IN SAME LOCATION.

**Detail 34 - 20 XM Weather Wiring (2/2)**

- End of Chapter -

NOTES:

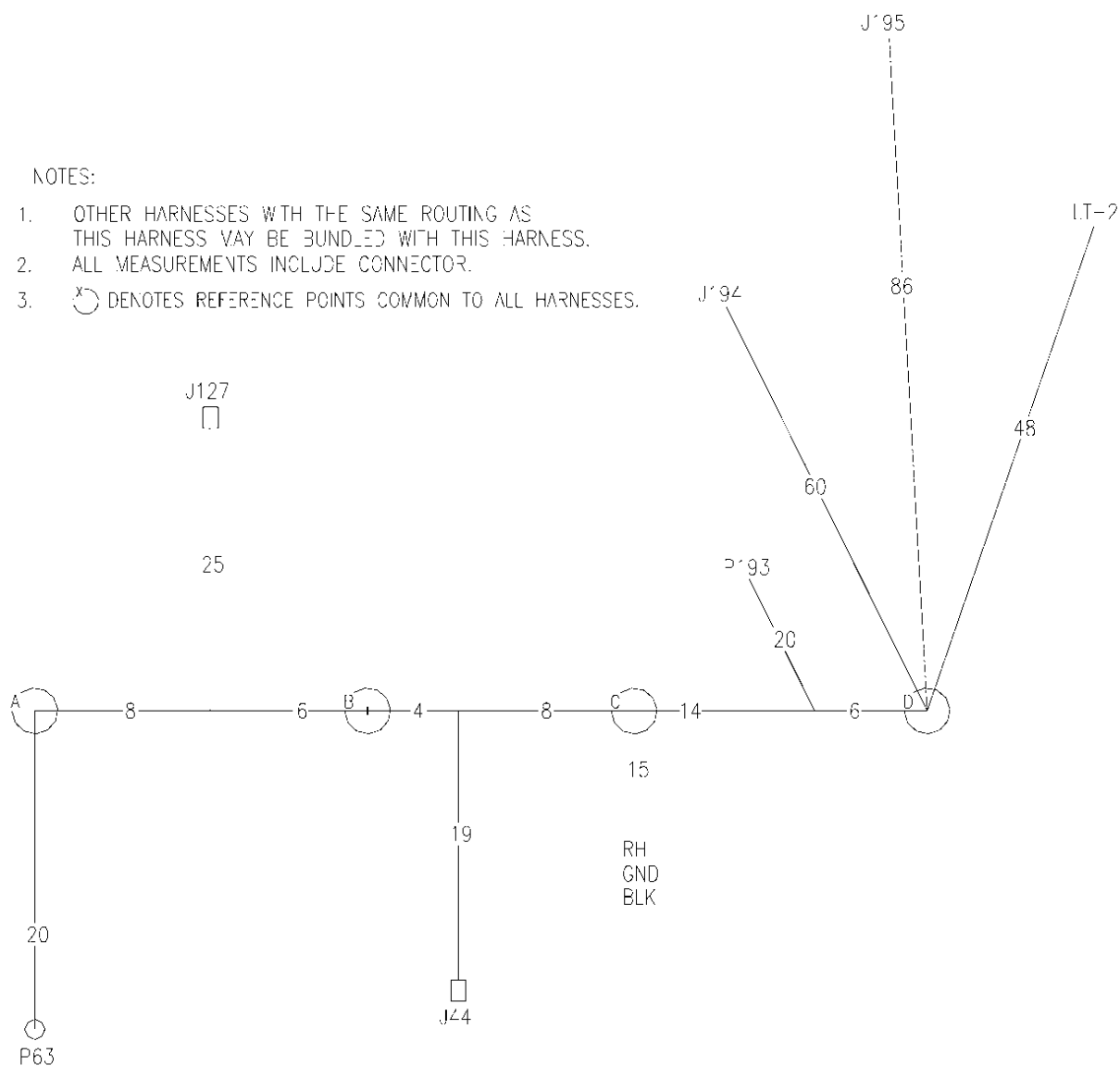
1. THE OXYGEN SYSTEM IS AN OPTION AVAILABLE TO THE CUSTOMER. JST DETERMINED PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER.
2. NOT USED.
3. THIS WIRE NOT PRESENT ON MODEL 400 AIRCRAFT.
4. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.



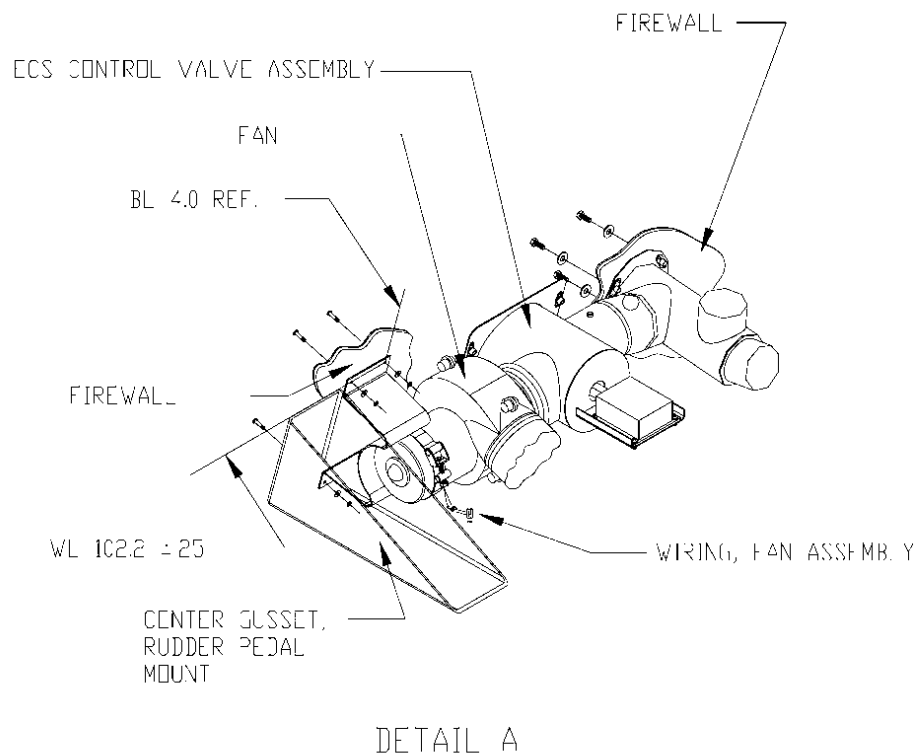
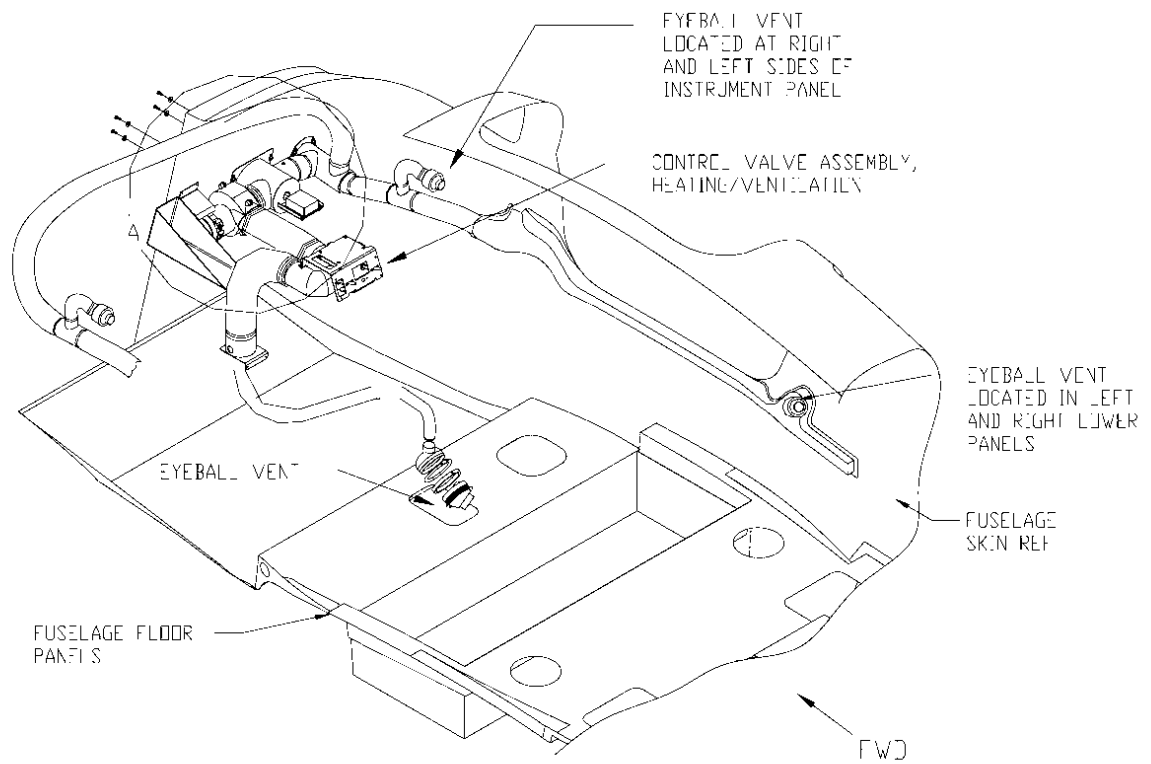
Detail 35 - 1 Oxygen System Wiring (LB53351000C) (1/2)

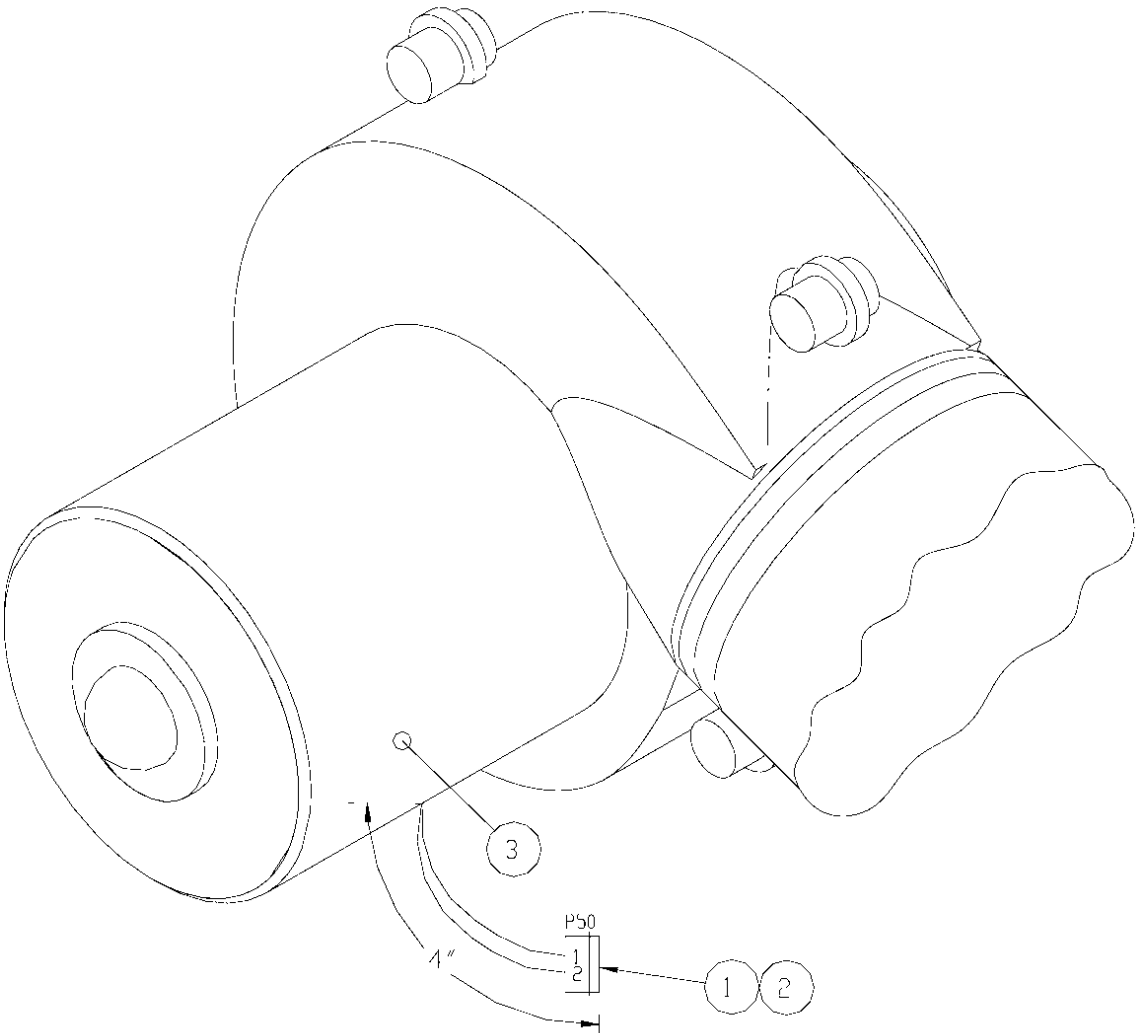
NOTES:

1. OTHER HARNESSSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED WITH THIS HARNESS.
2. ALL MEASUREMENTS INCLUDE CONNECTOR.
3.  DENOTES REFERENCE POINTS COMMON TO ALL HARNESSSES.

**Detail 35 - 1 Oxygen System Wiring (2/2)**

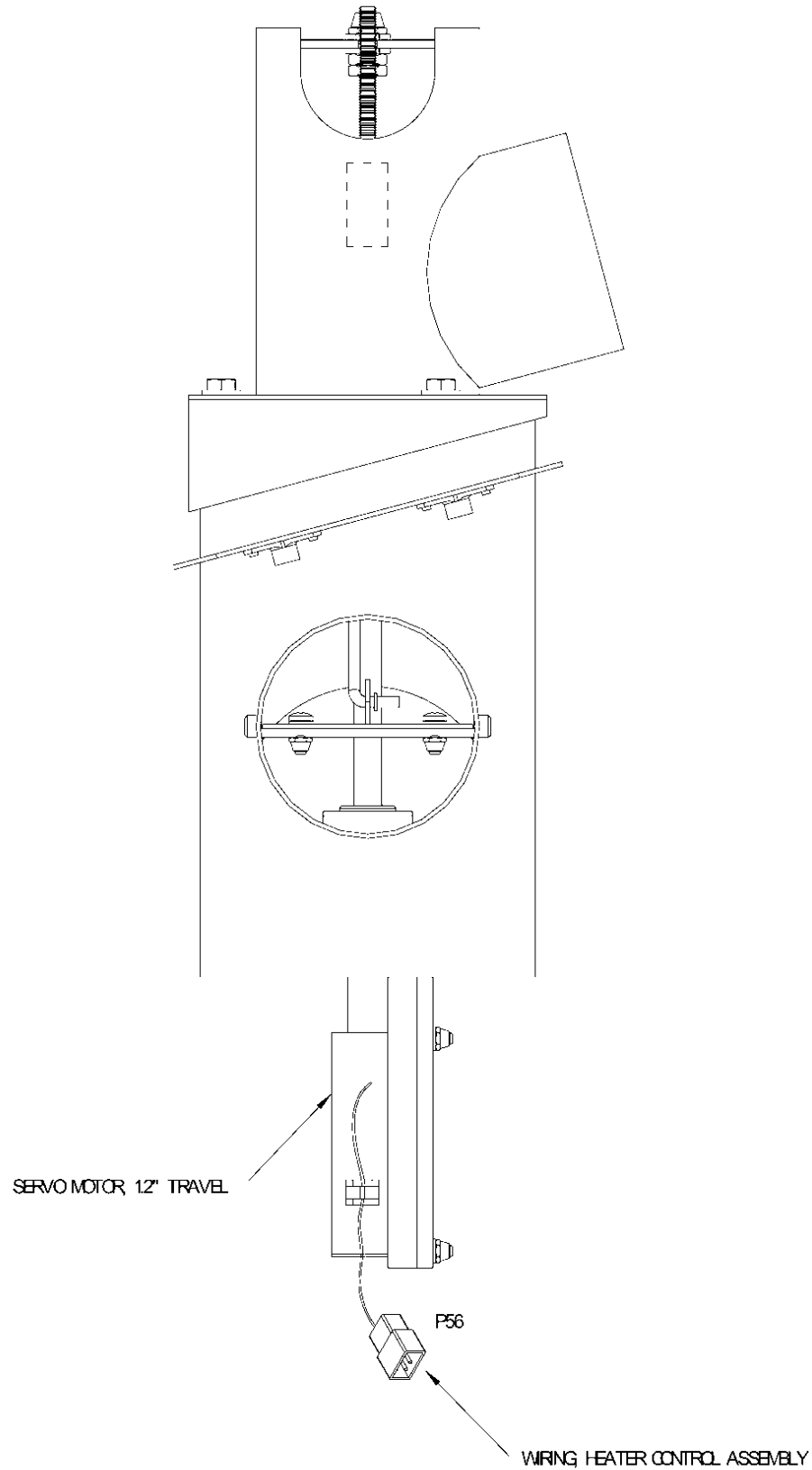
- End of Chapter -

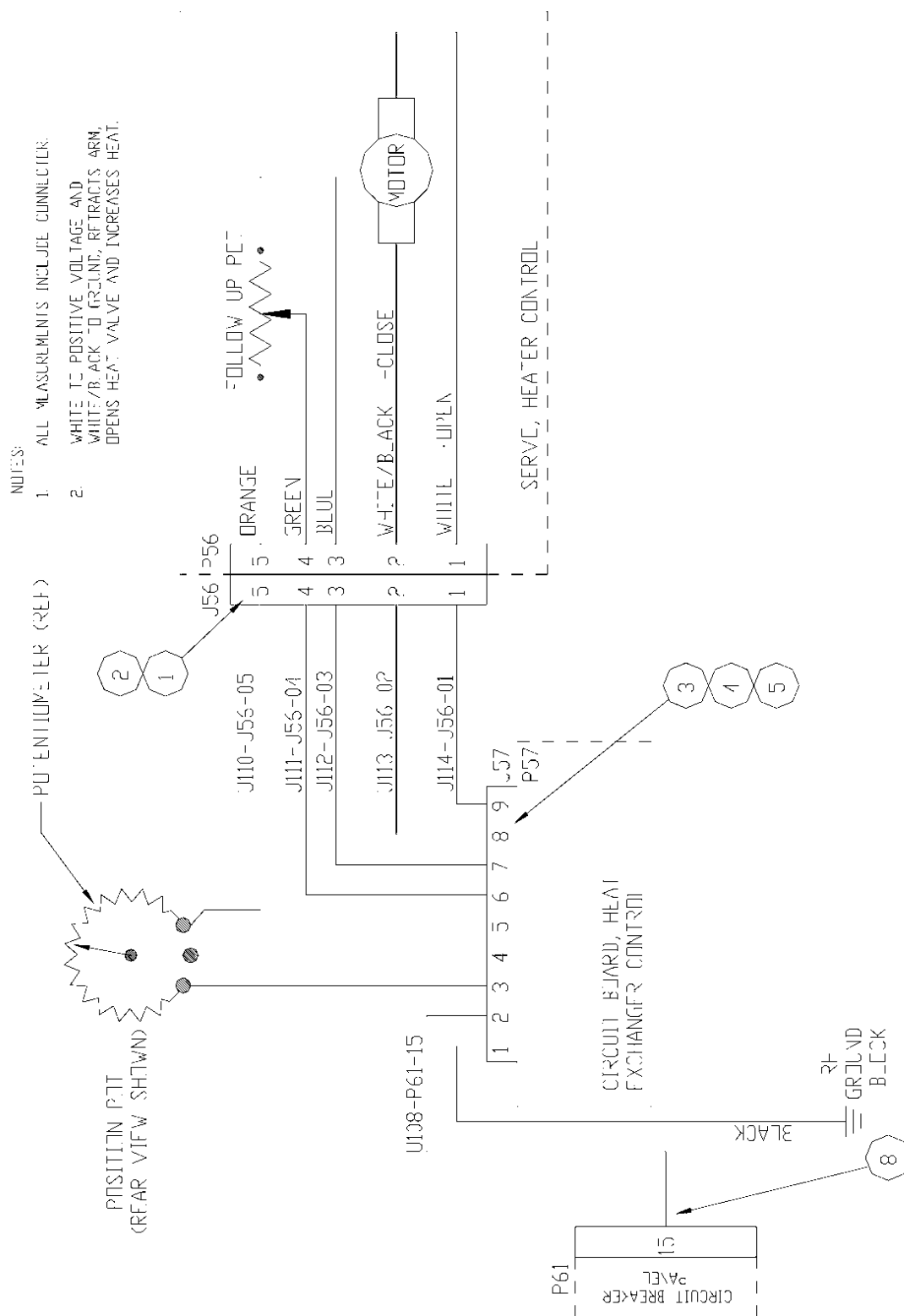
**Detail 21 - 1 Ventilation Assembly (LC53210000A)1 (1/1)**



3	1	35515-0010	FAN, VENTILATOR, SQUIRREL CAGE, PAR JABSCO
2	2	60620-1	PIN, 23-14 AWG, AMP
1	1	1-480319-0	PIN HOUSING, 2 PIN, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

Detail 21 - 2 Fan Assembly Wiring (LA53210018C1) (1/1)

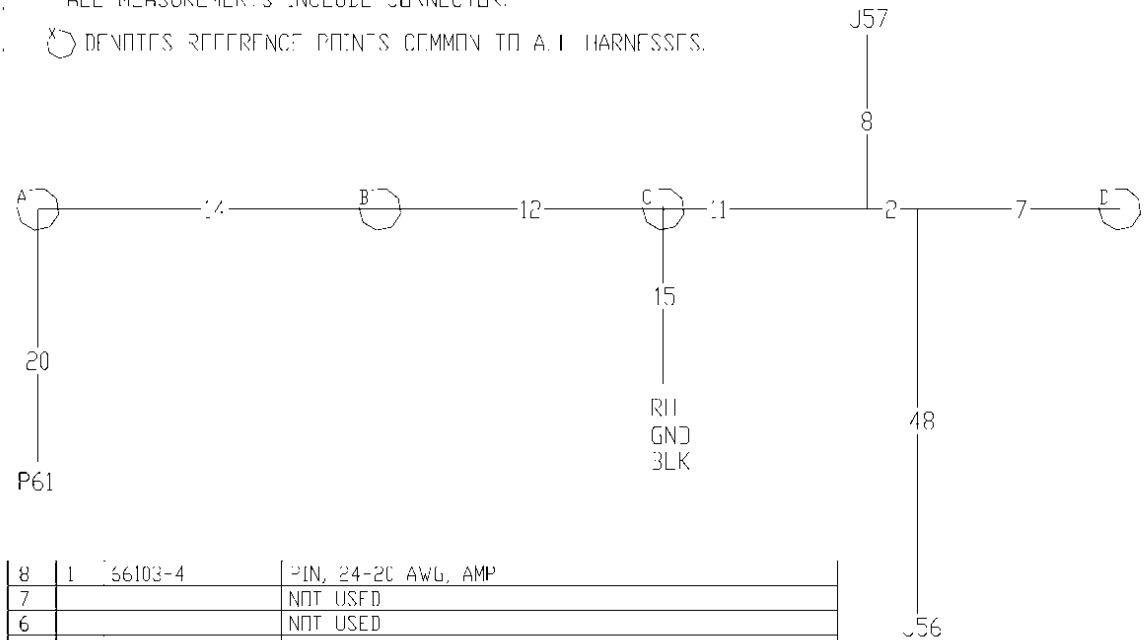
**Detail 21 - 3 ECS Control Valve (LA53216100A4) (1/1)**



Detail 21 - 4 Heater Control Assembly (LA53216034A1) (1/2)

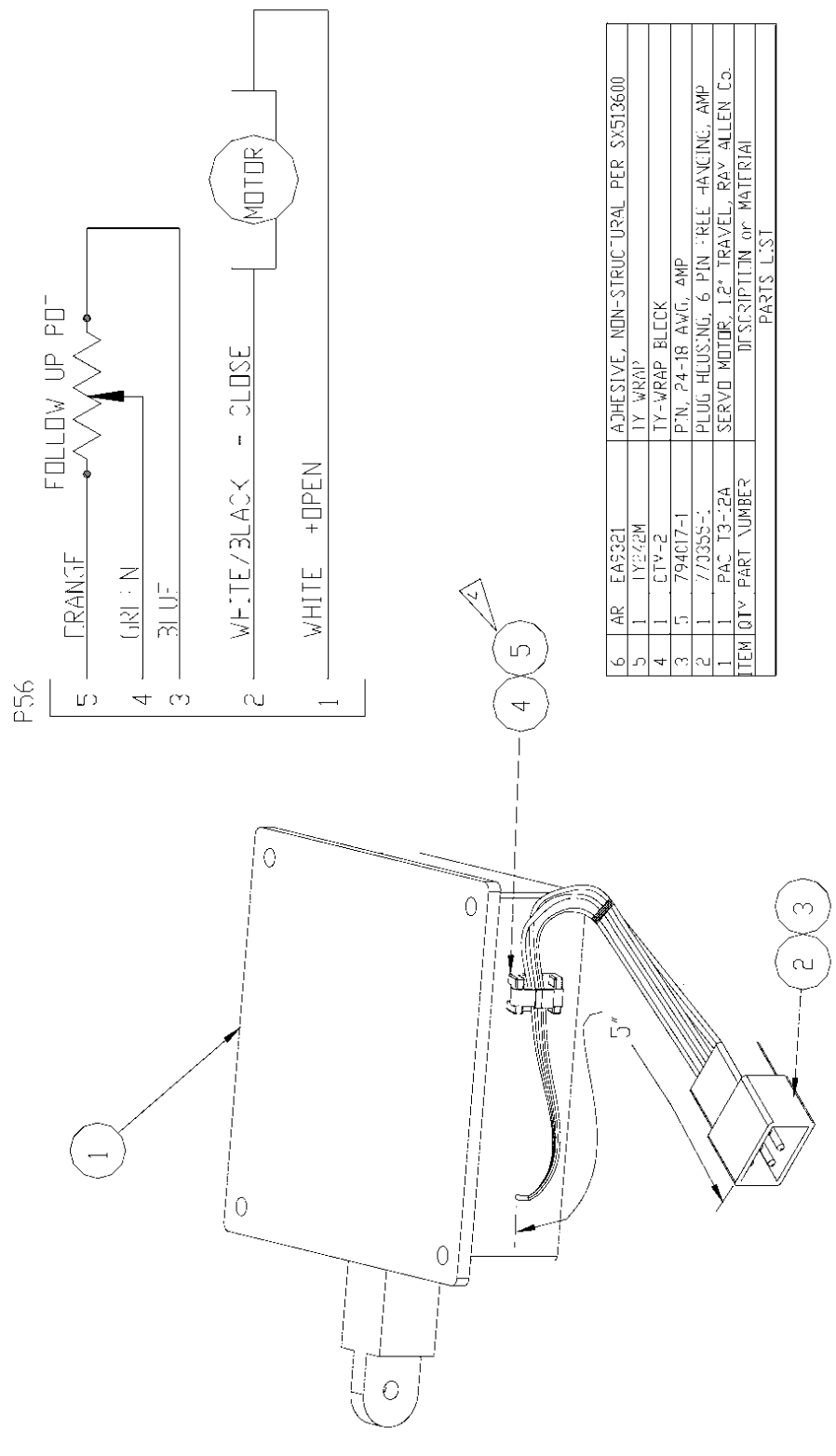
NOTES:

- 1. ALL MEASUREMENTS INCLUDE CONNECTOR.
- 2.  DENOTES REFERENCE POINTS COMMON TO ALL HARNESSSES.



8	1	66103-4	PIN, 24-20 AWG, AMP
7			NOT USED
6			NOT USED
5	1	206478-1	BACKSHELL, D CONNECTOR, SIZE 1, AMP
4	1	205203-1	RECEPTACLE, 9 PIN HPD 20 CONNECTOR, SIZE 1, AMP
3	9	205090-1	SOCKET, 24-20 AWG, AMP
2	3	794016-1	SOCKET, 24-18 AWG, AMP
1	1	770356-1	RECEPTACLE, 6-PIN FREE HANGING, AMP
ITEM QTY		PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

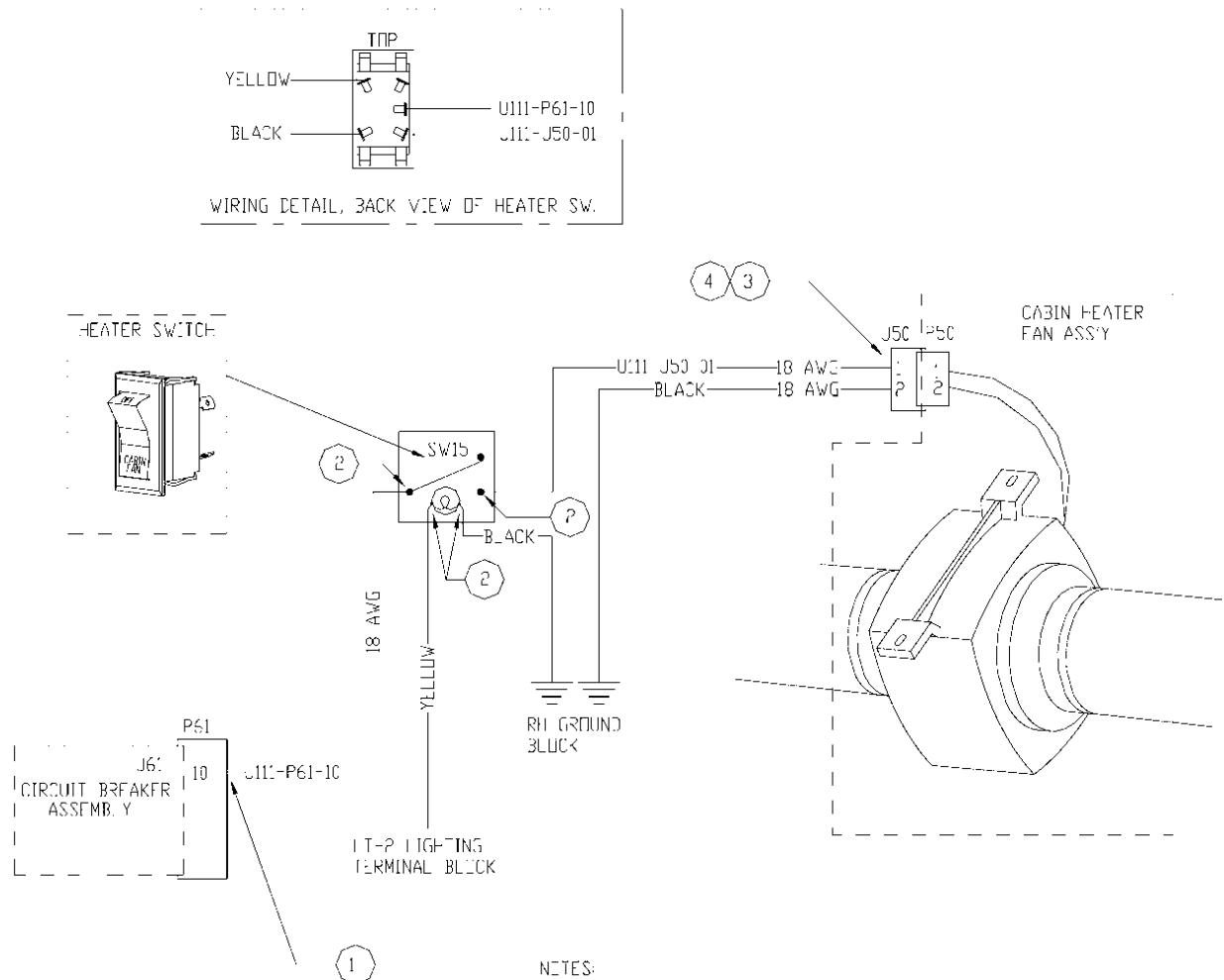
Detail 21 - 4 Heater Control Assembly (2/2)



6	AR	EAS321	ADHESIVE, NON-STRUCTURAL PER SY513600
5	1	LY242M	TY WRAP
4	1	CTV-2	TY-WRAP BLOCK
3	5	794017-1	PTN, P4-18 AWG, AMP
2	1	770355-1	PLUG HLUSING, 6 PIN REEL-HAVING, AMP
1	1	PAC T3-2A	SERVO MOTOR, 12" TRAVEL, RAY ALLEN Co.
ITEM QTY PART NUMBER			DESCRIPTION OF MATERIAL
			PARTS LIST

- NOTES:
1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
 2. NOT USED.
 3. ALL MEASUREMENTS INCLUDE CONNECTOR.
 4. ATTACH BLOCK TO SIDE OF SERVO WITH INSUL.
 5. WHITE TO POSITIVE VOLTAGE AND WHITE/BLACK TO GROUND, RETRACTS ARM, OPENS HEAT VALVE AND INCREASES HEAT.

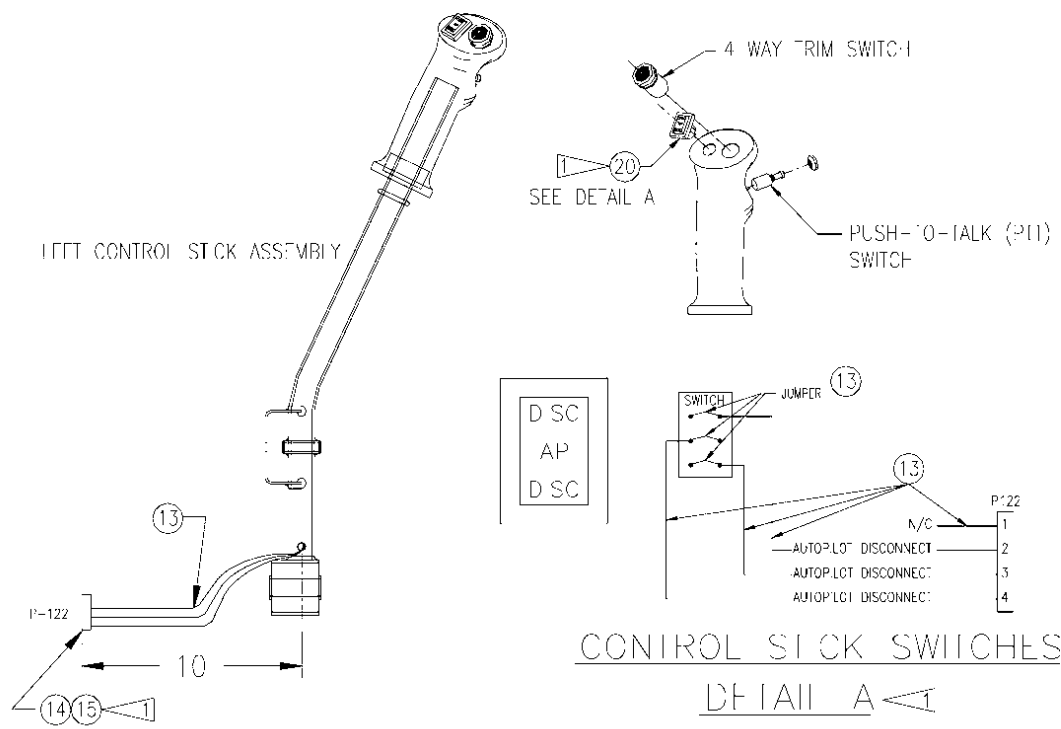
Detail 21 - 5 ECS Control Valve Servo (LA53216032-2) (1/1)



1 ALL WTRF SIZE IS 22 AWG UNLESS OTHERWISE NOTED.

4	2	60619-1	SOCKET, 20-14 AWG, AMP
3	:	1-48C318-C	SLICK 1 HOUSING, 2-PIN, AMP
2	4	640903-1	RECEPTACLE, .250 RED, 22-18 AWG, AMP
1	:	66099-4	PIN, 18-16 AWG, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION ON MATERIAL

Detail 21 - 6 Heater Fan Wiring (LA53515100D) (1/2)



1. SOLDER WIRES ONTO SWITCH, ITEM 20 (S-TEC P/N 3599) SEE DETAIL A. REMOVE DOME PLUG. FEED WIRES THROUGH HOLES IN GRIP HANDLE. WIRES WILL EMERGE THROUGH FRONT AND AFT HOLES IN STICK. IF SWITCH IS LOOSE IN GRIP, REMOVE SWITCH AND APPLY ADHESIVE TO HOLD IN PLACE.
2. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE NOTED.
2. ITEM NOS. NOT USED HAVE BEEN REMOVED FROM THE PARTS LIST FOR CLARITY.

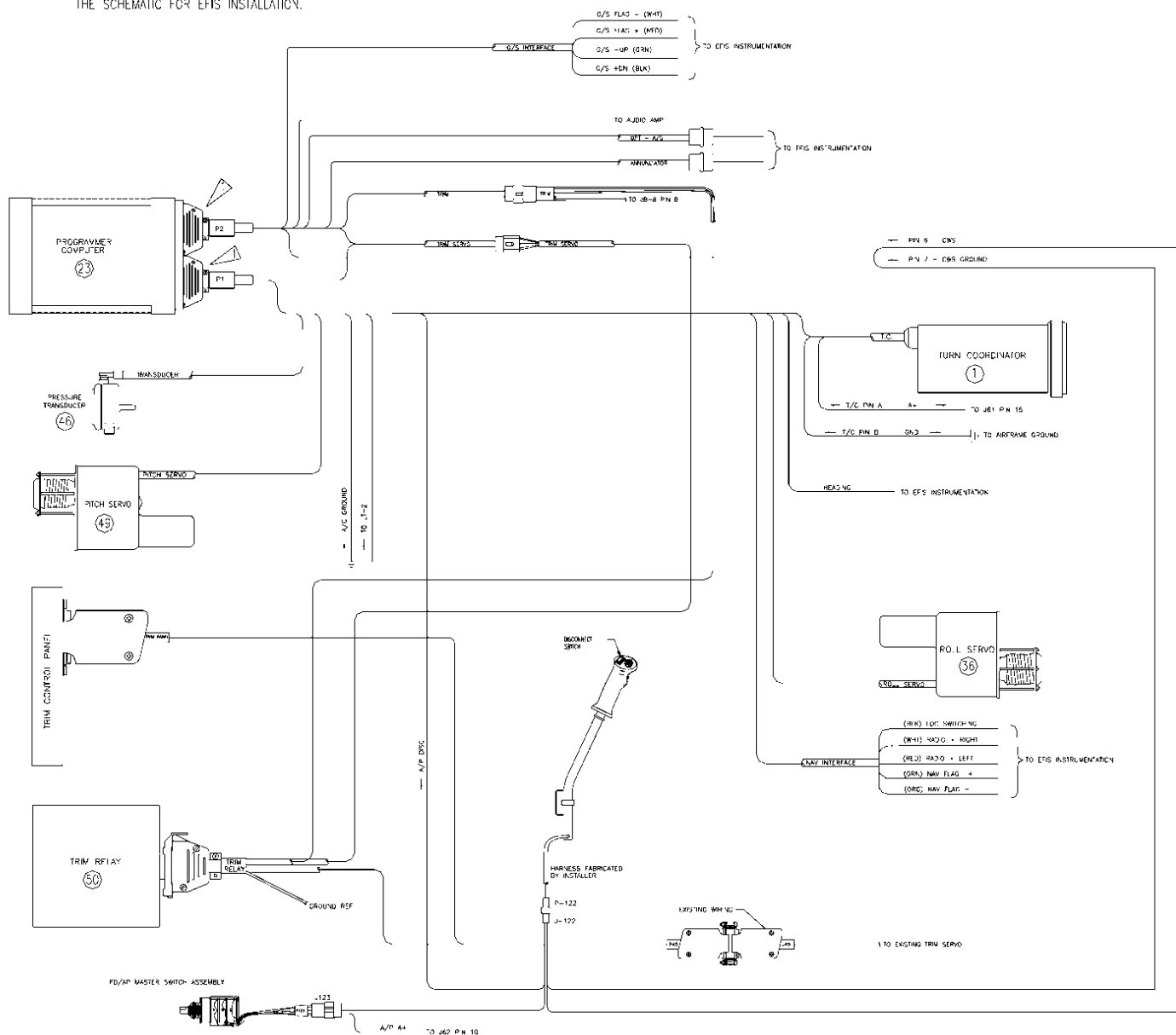
50	1	01277	B	TRIM RELAY (S-TEC)
49	1	0107-9-P4	W	PITCH SERVO (S-TEC)
46	1	0111	R	TRANSDUCER (S-TEC)
36	1	0105-13-R2		ROLL SERVO (S-TEC)
23	1	01192-33-0-45		PROGRAMMER/COMPUTER W/AUTOTRIM (S-TEC) PER TSC-C9c & TSO-C52c and subsequent.
20	1	3599	D.E	SWITCH, DISCONNECT (S-TEC)
15	2	793017-		PIN (AMP), (STEC 52105)
14	2	770433		PLUG HOUSING (AMP), (STEC 34273)
13	AR	ML W 22759/16 22 ga.		WIRE
1	1	6405-8-14		TURN COORDINATOR
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL
PARTS LIST				

Detail 22 - 1 S-Tec 55X Autopilot (LB53220000D1) (1/4)

FOR EFIS (ELECTRONIC FLIGHT INSTRUMENTATION SYSTEM)

1. POSITION CABLE ASSEMBLY ON TRAY WITH P1 CONNECTOR TO THE RIGHT SIDE, AS VIEWED FROM THE FRONT OF THE TRAY.

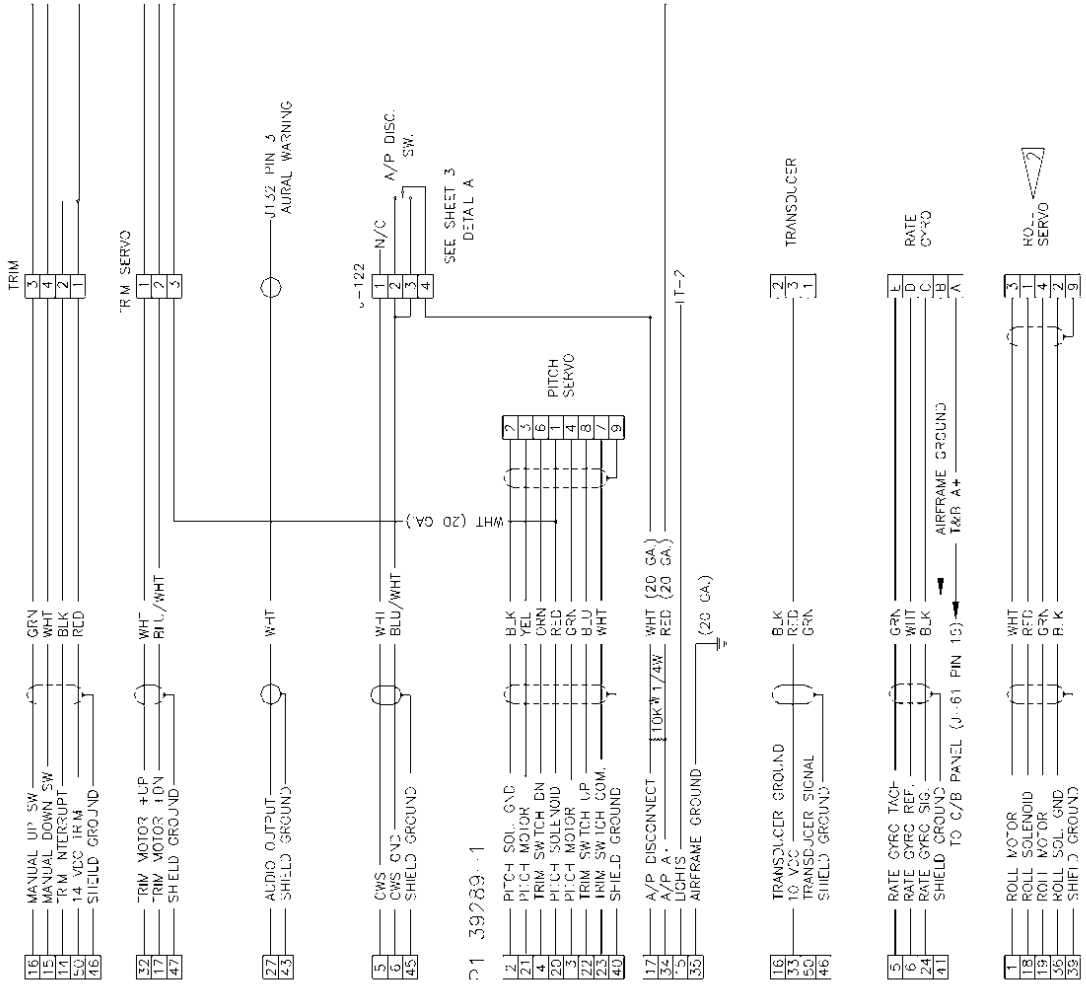
2. THIS BLOCK DRAWING IS TO BE USED FOR REFERENCE ONLY. ALL CONNECTORS AND PINS SHOULD BE CHECKED AGAINST THE SCHEMATIC FOR EFIS INSTALLATION.



Detail 22 - 1 S-Tec 55X Autopilot (2/4)

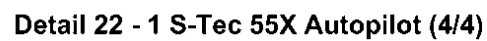
FOR FFIS (ELECTRONIC FLIGHT INSTRUMENTATION SYSTEM)

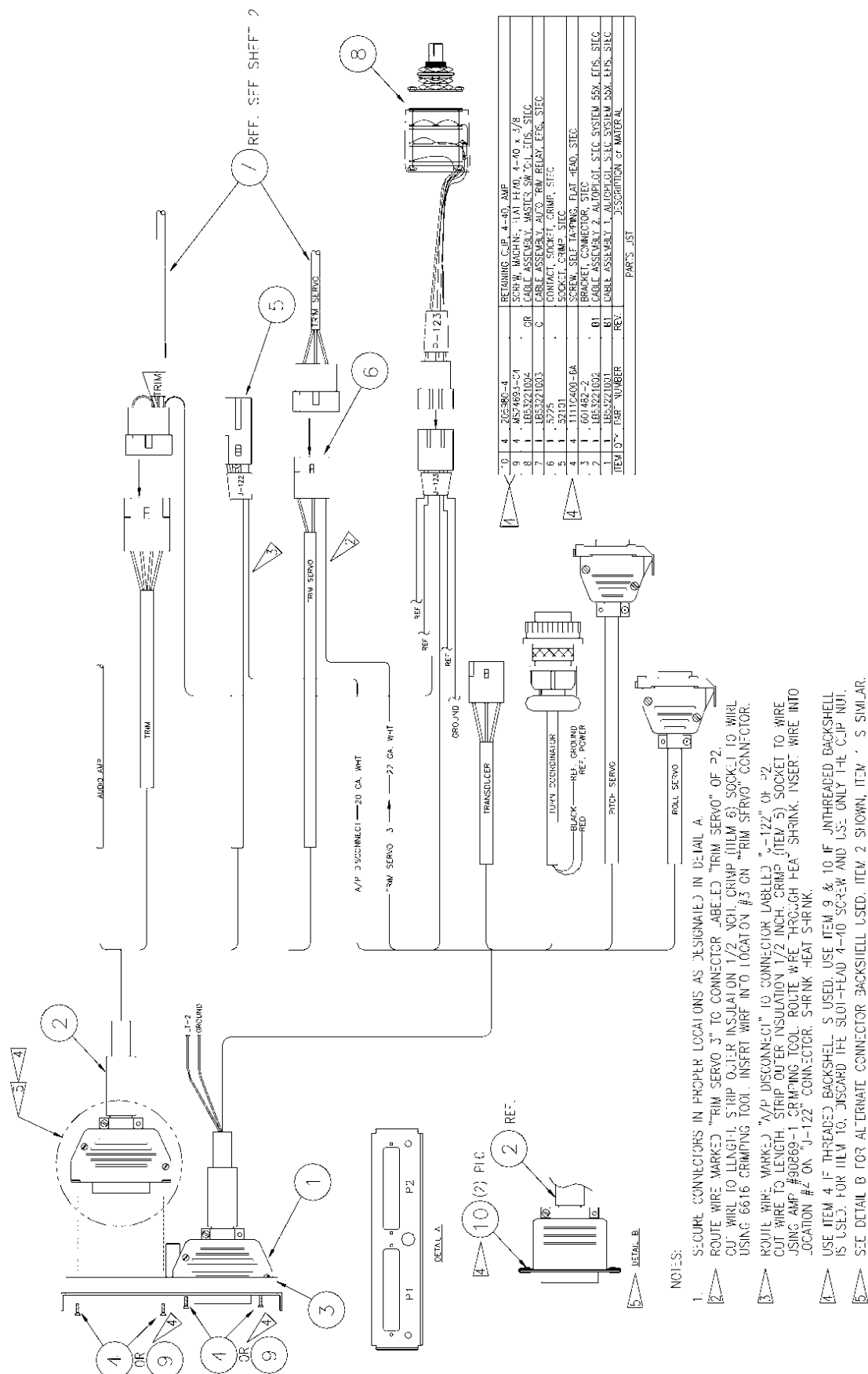
P2 39288-2



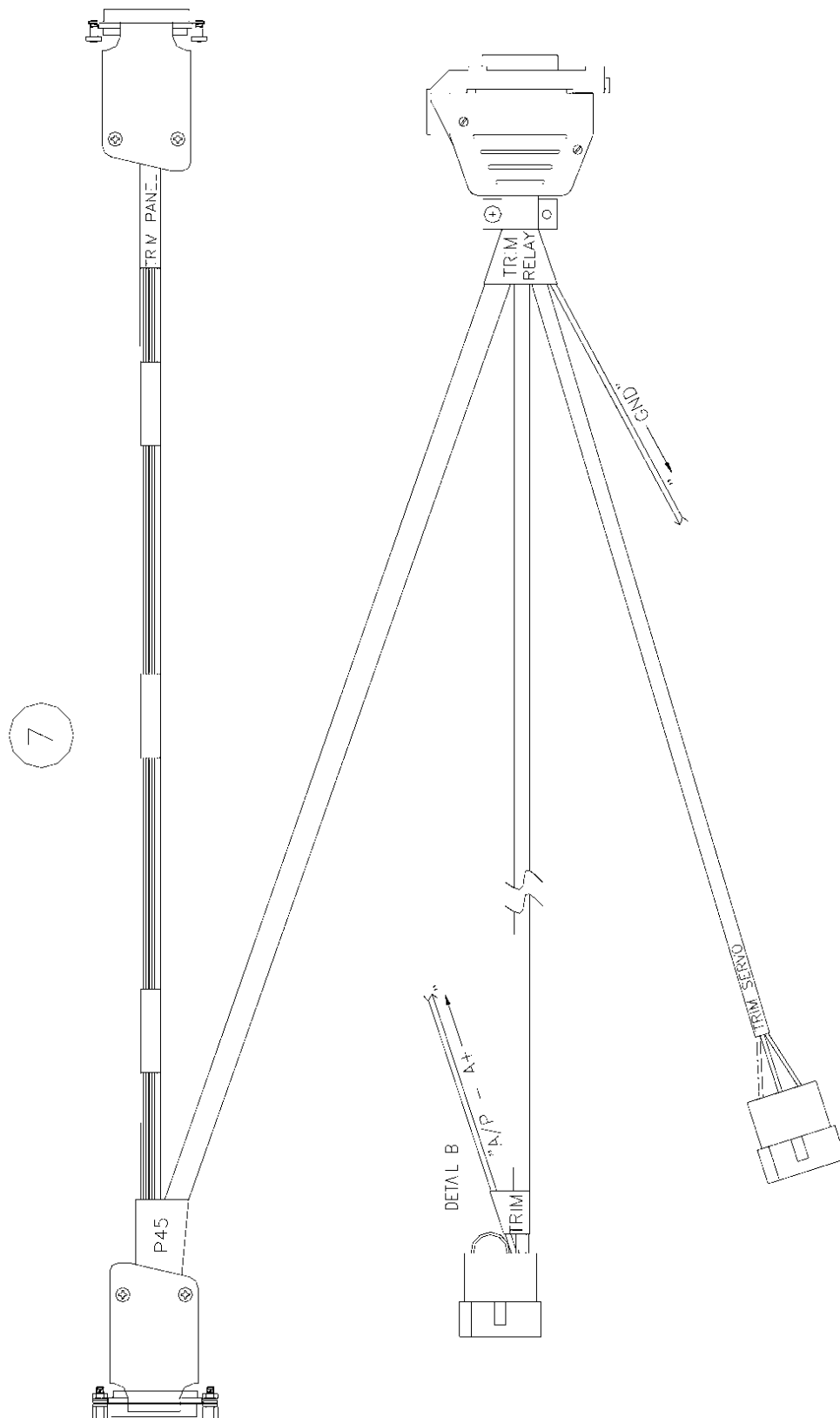
SYSTEM 55 / 55X COMPUTER

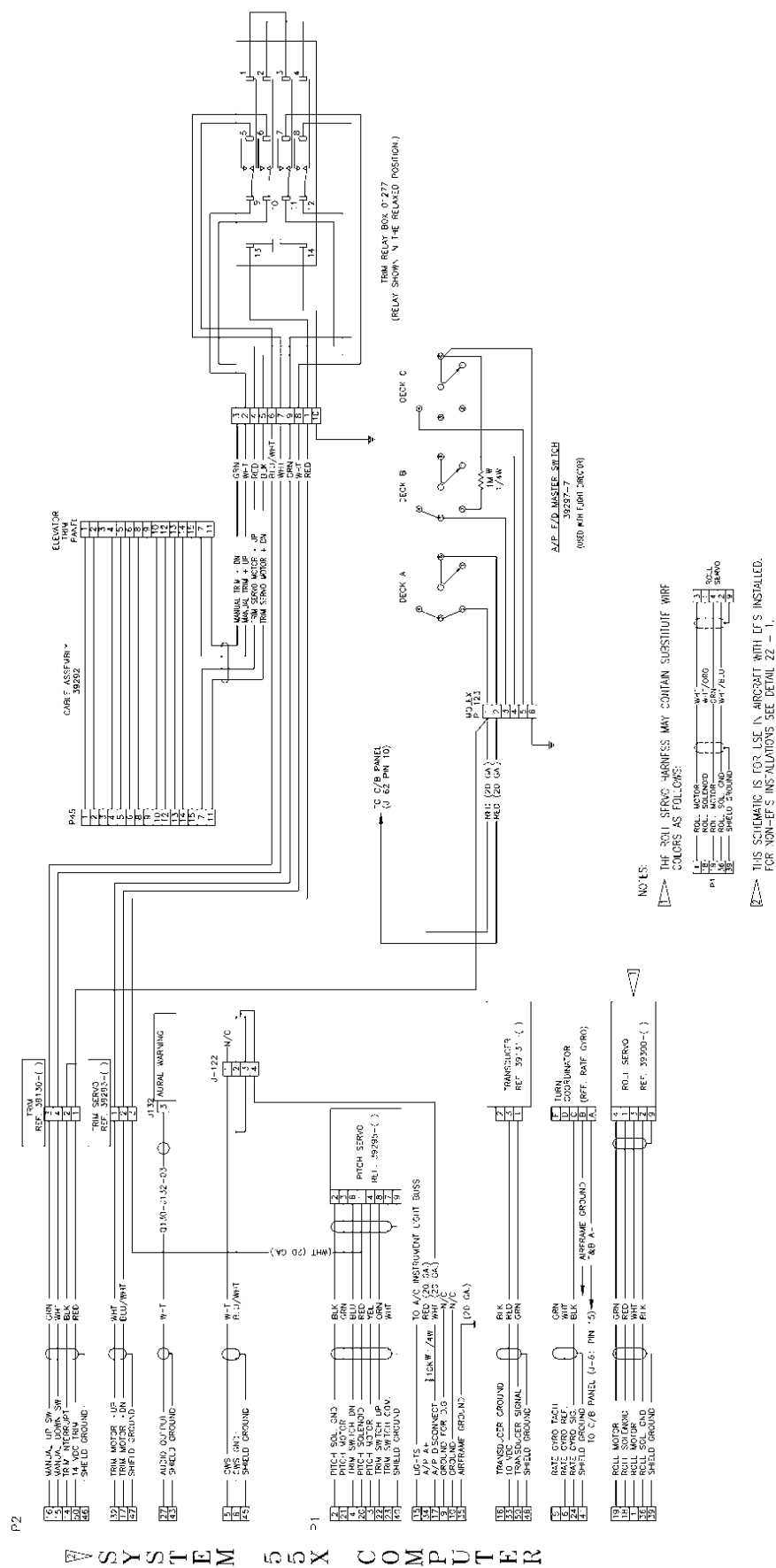
Detail 22 - 1 S-Tec 55X Autopilot (3/4)





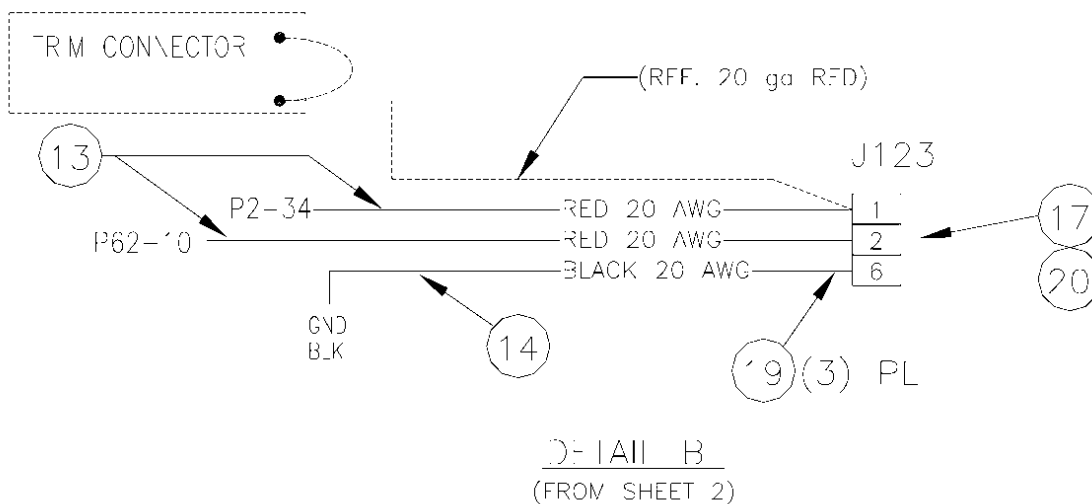
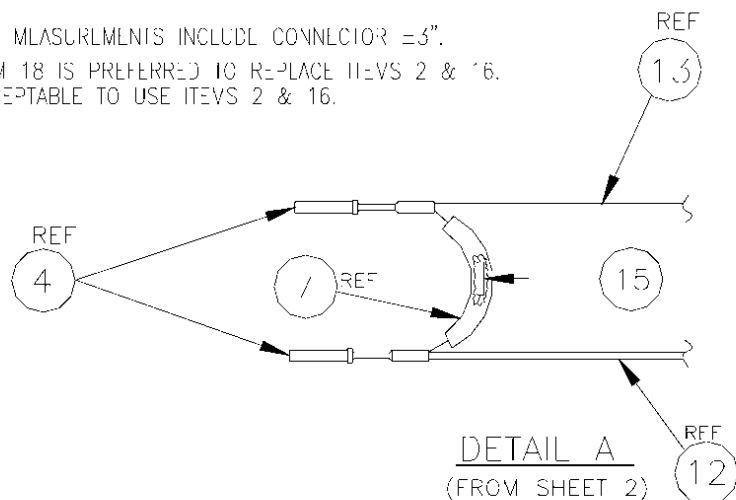
Detail 22 - 2 S-Tec System 55X Autopilot Cable Interface, EFIS (LB53221000A3) (1/3)

**Detail 22 - 2 S-Tec System 55X Autopilot Cable Interface, EFIS (2/3)**



NCTFS:

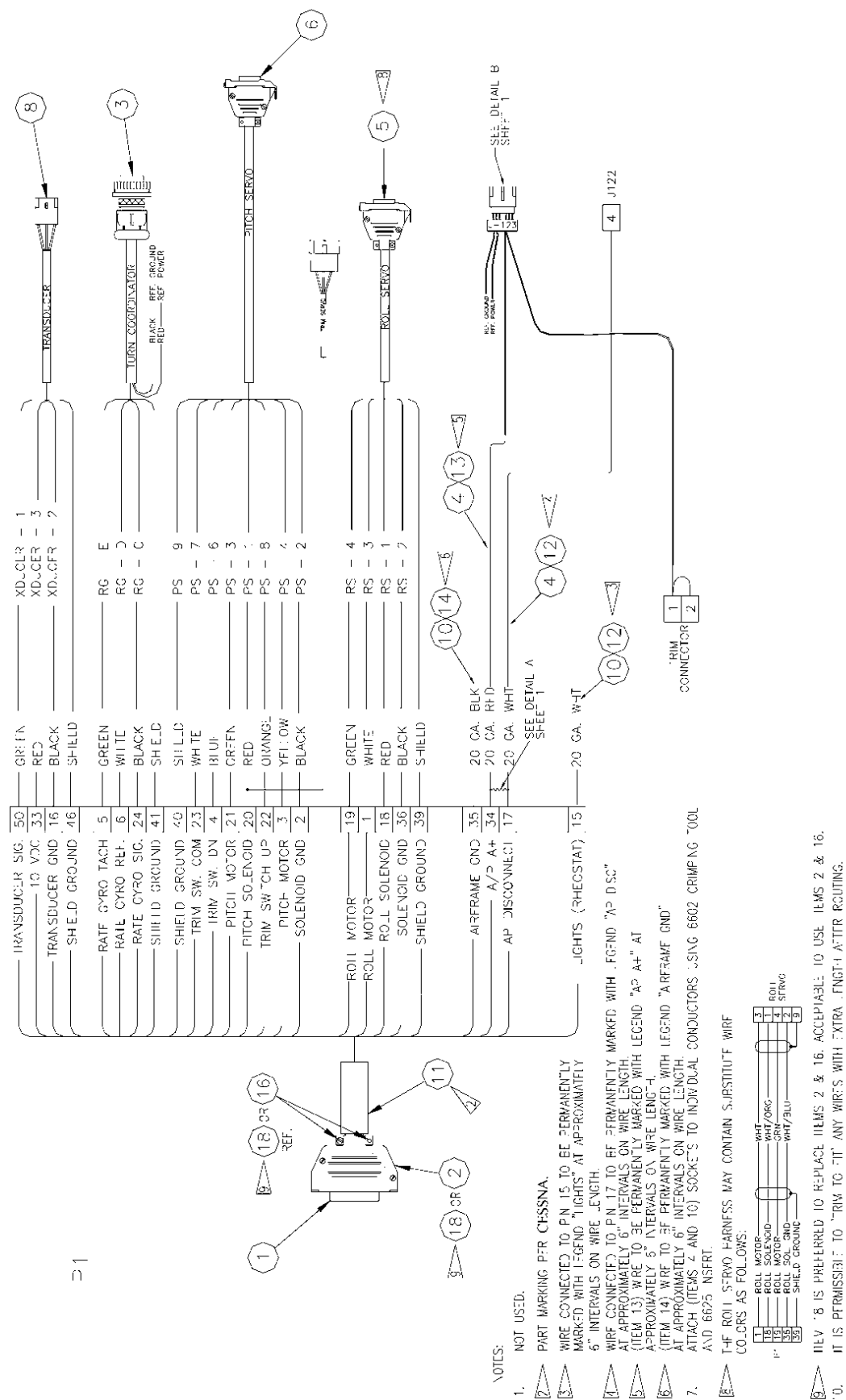
1. ALL MEASUREMENTS INCLUDE CONNECTOR = 3".
2. ITEM 18 IS PREFERRED TO REPLACE ITEMS 2 & 16.
ACCEPTABLE TO USE ITEMS 2 & 16.



20	1	0815-250	HEAT SHRINK, 1/4" O.D. X .75" LONG
19	3	5225	CONTACT, SOCKET, CRIMP
18	1	DD-2466	BACKSHELL, D-SUB SIZE 5, METAL W/CABLE CLAMP, CNCH
17	1	34233	RECEP/ACTL. CONTACT
16	1	1109C540-8	SCREW, 5-40 x 1/2, STEC
15	1	20104001051	RESIS/OR, 10K, -X MF, 1% 1/5 W, STEC
14	2	3/082010	WIRE, 20 GA., BLK, 60", STEC
13	3	37082002	WIRE, 20 GA., RED, 60", STEC
12	2	37082009	WIRE, 20 GA., WHITE, 116", STEC
11	1	0815-750	HEAT SHRINK, 3/4" O.D. X 2", STEC
10	2	5208	CONTACT, SOCKET, 20-26 GA, STEC
9			NO. JST:
8	1	39131-48	CABLE ASSEMBLY, XDCR, 48", STEC
7	AR	0815-093	HEAT SHRINK, 3/32" O.D. X 5", STEC
6	1	39295-86	CABLE ASSEMBLY, PITCH SERVO, 186", STEC
5	1	39300-25	CABLE ASSEMBLY, ROL. SERVO, 125", STEC
4	2	5295	CONTACT, SOCKET, 18 GA, STEC
3	1	3903-79	CABLE ASSEMBLY, TURN COORDINATOR, 179", STEC
2	1	5505	COVER, 50 PIN CONNECTOR, STEC
1	1	341	RECEP/ACTL. 50 PIN, STEC
ITEM	QTY	PART NUMBER	REV. DESCRIPTION or MATERIAL

PARTS LIST

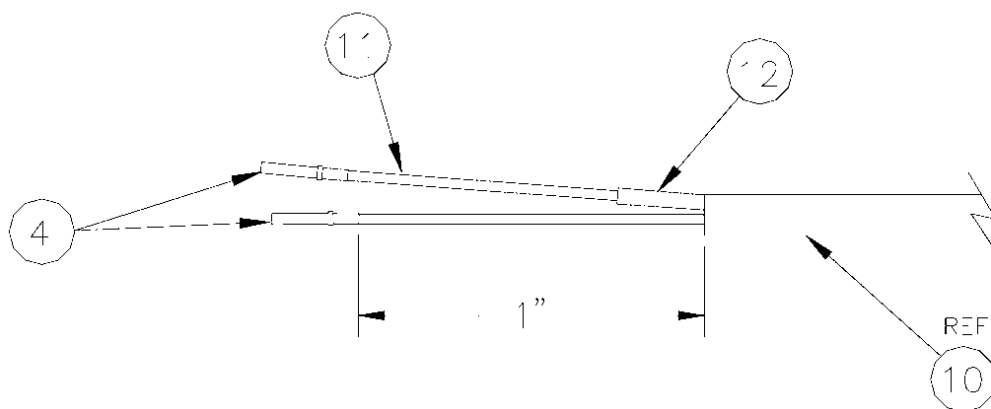
Detail 22 - 3 S-Tec System 55X Autopilot Cable Assembly 1, EFIS (LB53221001B2) (1/2)



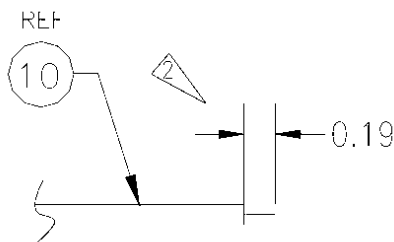
Detail 22 - 3 S-Tec System 55X Autopilot Cable Assembly 1, EFIS (2/2)

NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR $\pm 3"$.
2. STRIP OUTER INSULATION AND SHIELD BACK $1/4"$ AND STRIP INSULATION ON CONDUCTOR $3/16"$ AS SHOWN.
3. ITEM 13 IS PREFERRED TO REPLACE ITEMS 2 & 6. ACCEPTABLE TO USE ITEMS 2 & 6.



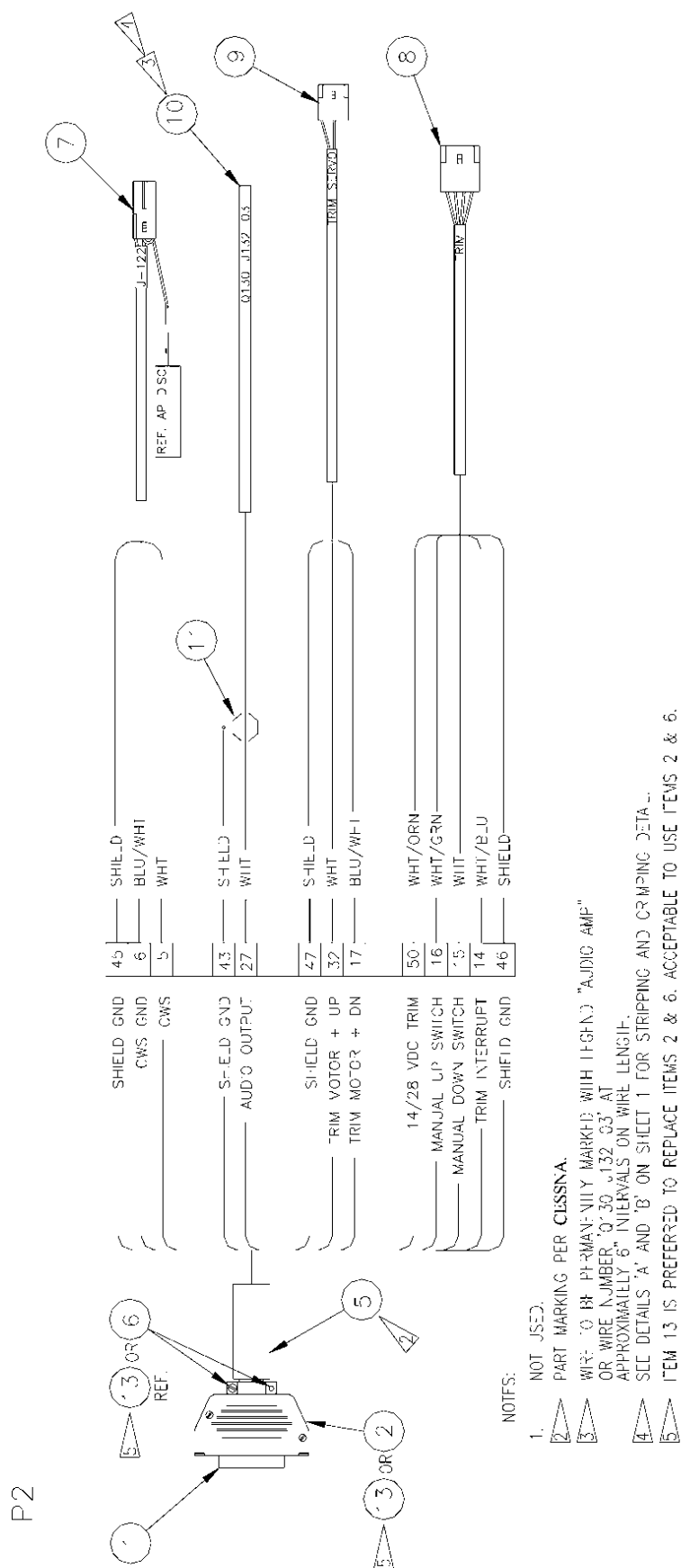
DETAIL A
(FROM SHEET 2)
CONNECTOR END OF CABLE



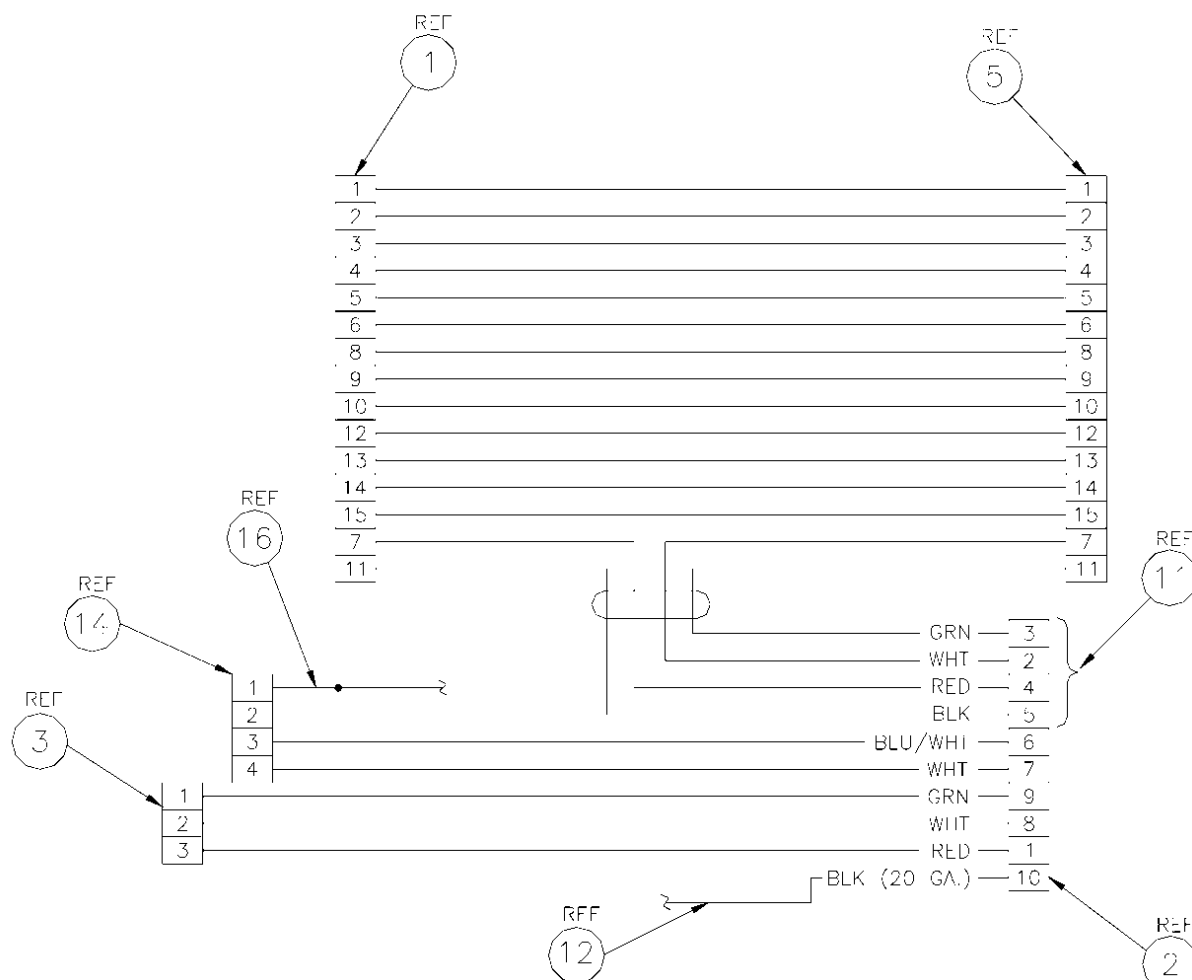
DETAIL B
(FROM SHEET 2)

3	13	1	DD-24661		BACKSHELL, D-SUB 57E 5, METAL W/CABLE CLAMP, CINCH
	12	AR	0815-095		HEAT SHRINK, 3/32" DIA., BLK, SILC
	11	1	52133-02		TERMINATOR, SHIELD, SOLDER SLEEVE, 170 ID X 1.150 O.D.
	10	1	37962209		WIPE, SHIELDED, 22 ga. WHT, SNG. COND SHIELDED, STEC (REF. 60")
	9	1	39293-12		CABLE ASSEMBLY, TRIM, SERVQ, STEC (REF. 12")
	8	1	39130-12		CABLE ASSEMBLY, TRIM, SYS 55, STEC (REF. 12")
	7	1	39290-74		CABLE ASSEMBLY, A/P DISCONNECT, CWS, STEC (REF. 74")
3	6	2	1139C540-8		SCREW,SRH, 5-40 x .50 L., STEEL, CAD PLATED, MACH., STEC
	5	1	0815-750		HEAT SHRINK, 3/4" Ø, BLK, STEC
3	4	3	5208		CRIMP CONTACT, RECEPT, D-SUB, CLOSED ENTRY, 20-28 AWC, STEC
	3				NOT USED
	2	1	5505		CONN HOOD, 50 PIN D-SUB, METALIZED W/CABLE CLAMP, STEC
	1	1	3411		RECEPTACLE, RECT 50 CONT, STEC
	ITEM QTY PART NUMBER REV.				DESCRIPTION or MATERIAL
PARTS LIST					

Detail 22 - 4 S-Tec System 55X Autopilot Cable Assembly 2, EFIS (LB53221002B1) (1/2)



Detail 22 - 4 S-Tec System 55X Autopilot Cable Assembly 2, EFIS (2/2)

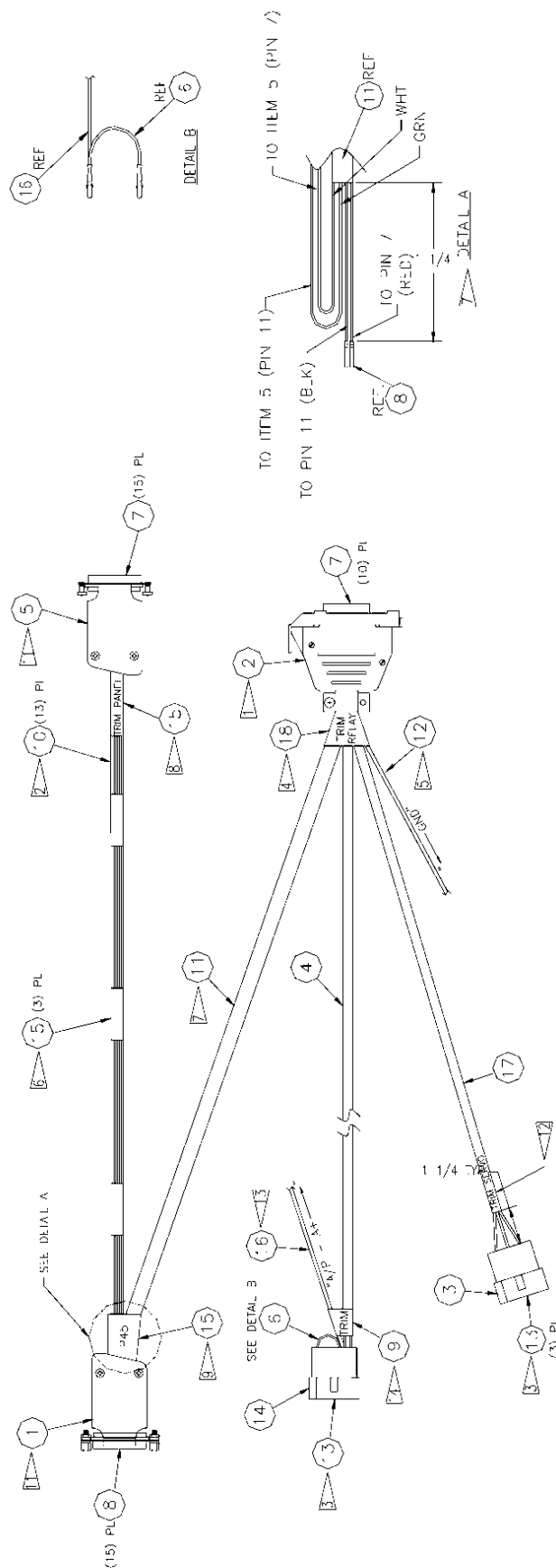


NOTES:

- ALL MEASUREMENTS INCLUDE CONNECTOR $\pm 3"$.

18	1	Q815-375		HEATSHRINK, 3/8" OD X 1-1/2", STEC
17	1	5815		CABLE, 22 GA. SHIELDED, 4 COND., 14", SILC
16	1	37082602		WIRE, 20 GA. RED, 60", STEC
15	5	Q815-375		HEATSHRINK, 3/8" OD X 1", STEC
14	1	3317		PLUG, 4 CONTACT, STEC
13	7	5224		CRIMP CONTACT, 594 D.A., WALE PIN, 18-22 AWG, STEC
12	1	37082010		WIRE, 20 GA. BLK, 60", STEC
11	1	3815		CABLE, 22 GA. SHIELDED, 4 COND., 56", STEC
10	13	37082709		WIRE, 22 GA. WHT, 12", STEC
9	1	Q815-125		HEATSHRINK, 1/8" OD X 1", SILC
8	15	5210		CRIMP CONTACT, MALE PIN, C-SUB CONN, 20-24 AWG, SILC
7	25	5208		CRIMP CONTACT, RECEPT, 3 SJB, CLOSED ENTRY, 20-26 AWG, STEC
6	1	37082202		WIRE, 22 GA. WHT, 1.5", SILC
5	1	34242		RECEPTACLE ASSEMBLY, 15 CONTACT, STEC
4	1	5816		CABLE, 2 CONDUCTOR, 22 AWG, SHIELDED, 14", SILC
3	1	3313		PLUG HOUSING, PIN AND SOCKET, 3 POS, STEC
2	1	34180		CONNECTOR ASSEMBLY, 15 P.N, STEC
1	1	35272		PLUG ASSEMBLY, 15 CONTACT, SILC
ITEM QTY PART NUMBER REV.				DESCRIPTION or MATERIAL
PARTS LIST				

Detail 22 - 5 Autotrim Relay Cable Assembly (LB53221003C) (1/2)

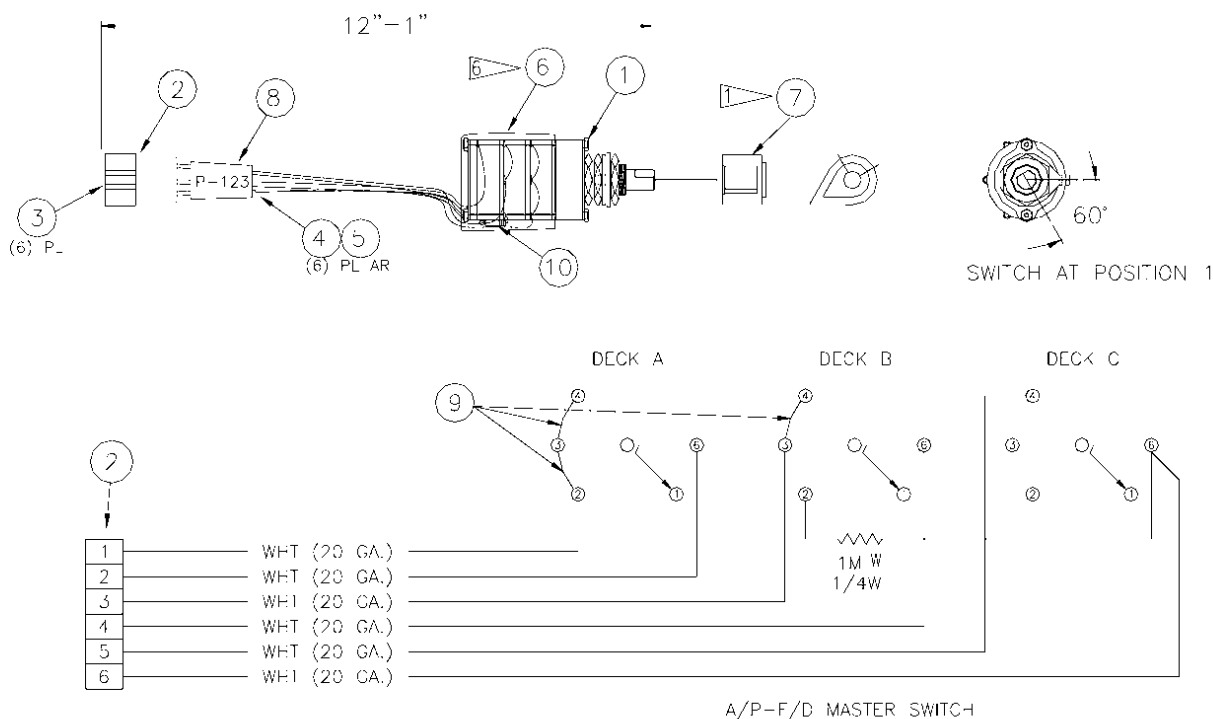


Detail 22 - 5 Autotrim Relay Cable Assembly (2/2)

- NOTES:
1. REFERENCE SIE-C DRAWING NO. 34180 FOR CONNECTOR ASSEMBLY DETAILS.
2. STRIP INDIVIDUAL CONDUCTORS 3/16" PRIOR TO ATTACHING CONTACTS (BOTH ENDS).
3. ATTACH (ITEM 13) PINS TO INDIVIDUAL CONDUCTORS USING 6616 CRIMPING TOOL.
4. (ITEM 18) HEATSHRINK TO BE PERMANENTLY MARKED WITH THE LEGEND "RIM RE-AT".
5. (ITEM 12) WIRE TO BE PERMANENTLY MARKED WITH LEGEND "END" AT 6 IN. INTERVALS ALONG LENGTH OF WIRE.
6. (ITEM 15) HEATS-RINK TO BE ON APPROXIMATELY 3 IN. CENTERS ALONG ENTIRE LENGTH OF (ITEM 10) WRES.
7. (ITEM 10) WRES THROUGH- 3 EACH (ITEM 75) HEATSHRINK PRIOR TO ATTACHING (ITEMS 7 AND 8) CONTACTS.
8. STRIP THE OUTER INSULATION OF 1-E (ITEM 11) CABLE BACK .72 INCHES AT THE (ITEM 1) CONNECTOR END. CUT THE RED AND BLACK CONDUCTORS TO 1 1/4 IN. LG. PRIOR TO CONNECTING (ITEM 8) PINS. ROUTE THE GREEN AND WHITE CONDUCTORS OF THE (ITEM 1) CABLE TO THE (ITEM 5) CONNECTOR AS SHOWN IN DETAIL A.
9. (ITEM 15) HEATS-RINK TO BE PERMANENTLY MARKED WITH THE LEGEND "TRIM PAIR".
10. (ITEM 15) HEATS-RINK TO BE PERMANENTLY MARKED WITH THE LEGEND "P-45".
11. ATTACH (1-EW 8) AND (ITEM 7) PINS AND SOCKET S TO WIRES USING 6610 CRIMPING TOOL AND 6611 INSERT.
12. REFER TO DRAWING NO. 33272 FOR CONNECTOR ASSEMBLY DETAILS.
13. (ITEM 17) CABLE TO BE PERMANENTLY MARKED WITH LEGEND "TRIM SERVO".

NOTES:

1. SWITCH SHOWN IN THE "OFF" POSITION.
2. INSTALL ITEM 7 ON ITEM 1 BY TIGHTENING 2 EACH "ALLEN" SCREWS IN ITEM 7.
3. ITEM 8 TO BE PERMANENTLY MARKED WITH THE LEGEND "P-123".
4. SOLDER ITEMS 4 AND 9 TO ITEM 1. UPON COMPLETION OF SOLDERING, COVER THE SWITCH BODY WITH ITEM 6. SHRINK HEAT SHRINK.
5. ATTACH ITEM 3 TO INDIVIDUAL WIRES TO CONNECTOR END OF CABLE ASSEMBLY USING 6616 CRIMPING TOOL.
6. ITEM 6 TO BE PERMANENTLY MARKED WITH THE FINISHED PART NUMBER. (EXAMPLE: 39297-12).
7. JUMPERS SHOWN ON ITEM 1 ARE EXTERNAL.

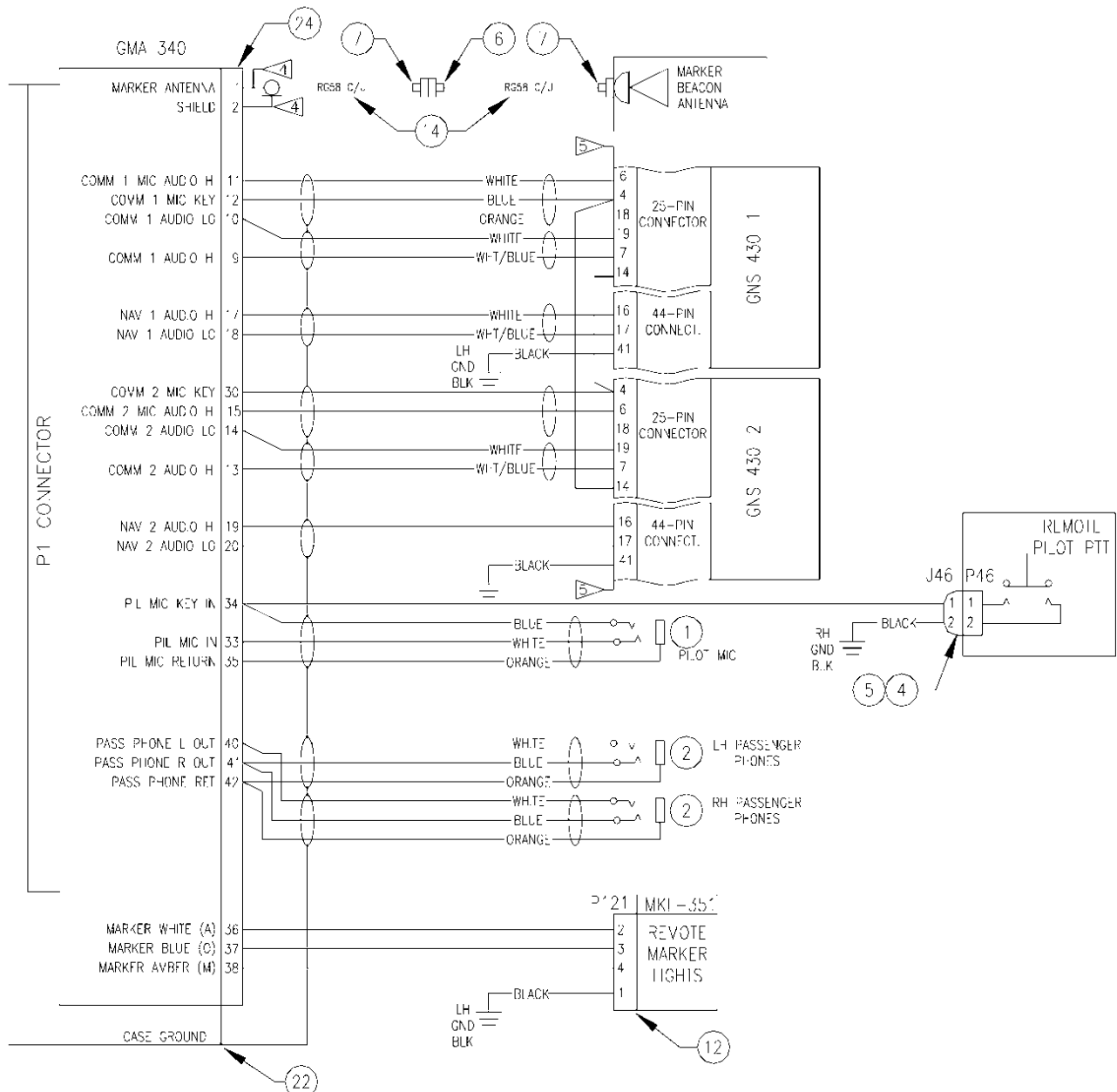


A/P-F/D MASTER SWITCH

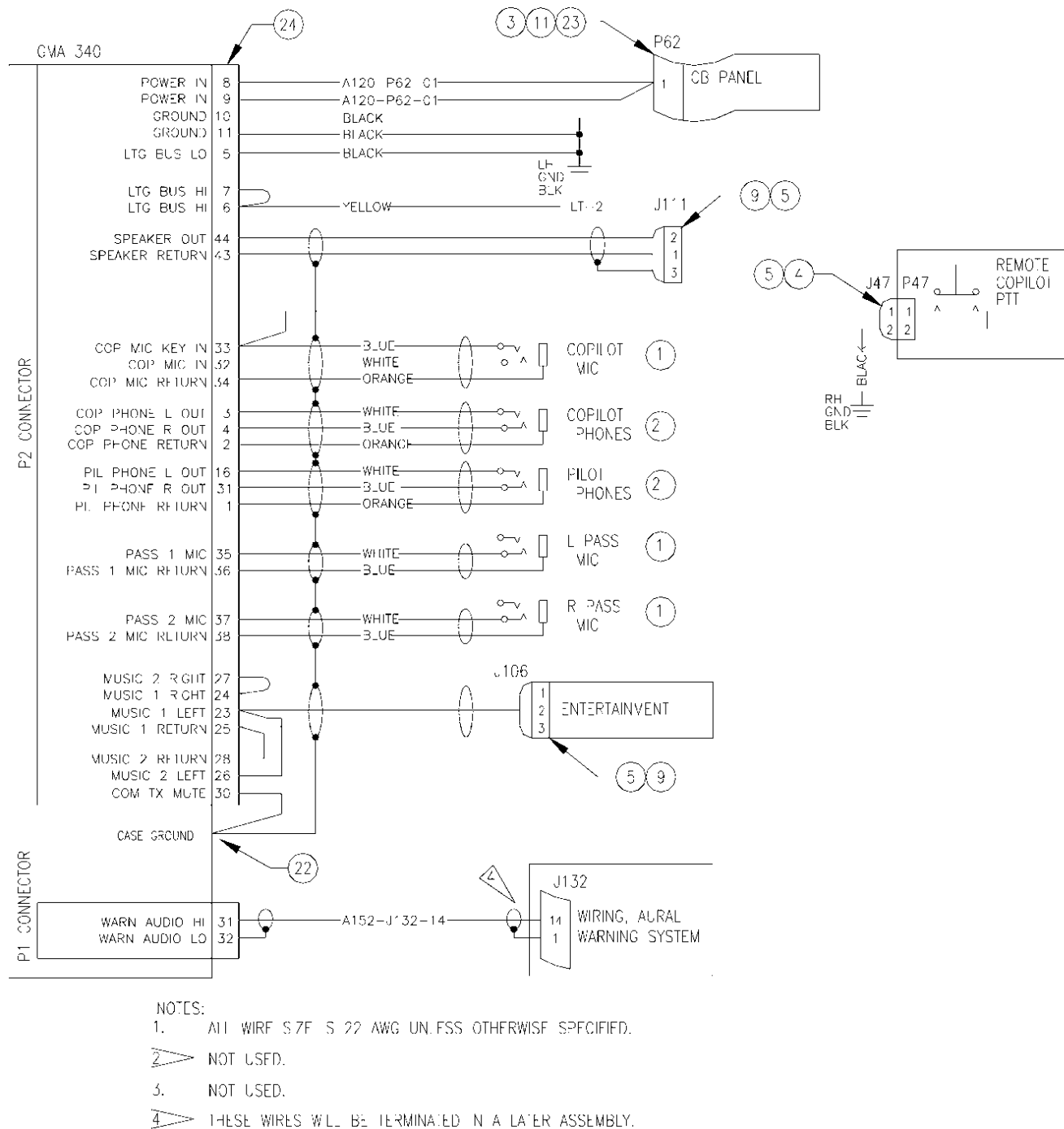
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL PARTS LIST
1	1	181W0001004	RESISTOR, CARBON, 1M, 5%, 1/4W, STEC
3	3	37082009	WIRE, 20 GA., WHT, S COND., 3/4", STEC
8	1	0815-250	HEATSHRINK, B.K., 1/4 DIA. x 3/4", STEC
7	1	5863	KNOB, CONTROL, POINTER, STEC
6	1	0815-1500	HEATSHRINK, B.K., 1.5 DIA. x 1-1/8", STEC
5	AR	0703	SOLDER, WIRE, .050" DIA, STEC
4	6	37082009	WIRE, 20 GA. WHT, S COND x 12", STEC
3	6	5224	CONTACT, CRIMP, .093 DIA., MALE PIN, 18-22 AWG, STEC
2	1	33268	PLUG, 6 CONTACT, STEC
1	1	3596	SWITCH, ROTARY, 60° INCFX, 3 DECKS, 1 POLE/DECK, STEC

Detail 22 - 6 A/P-F/D Master Switch Cable Assembly (LB53221004-) (1/1)

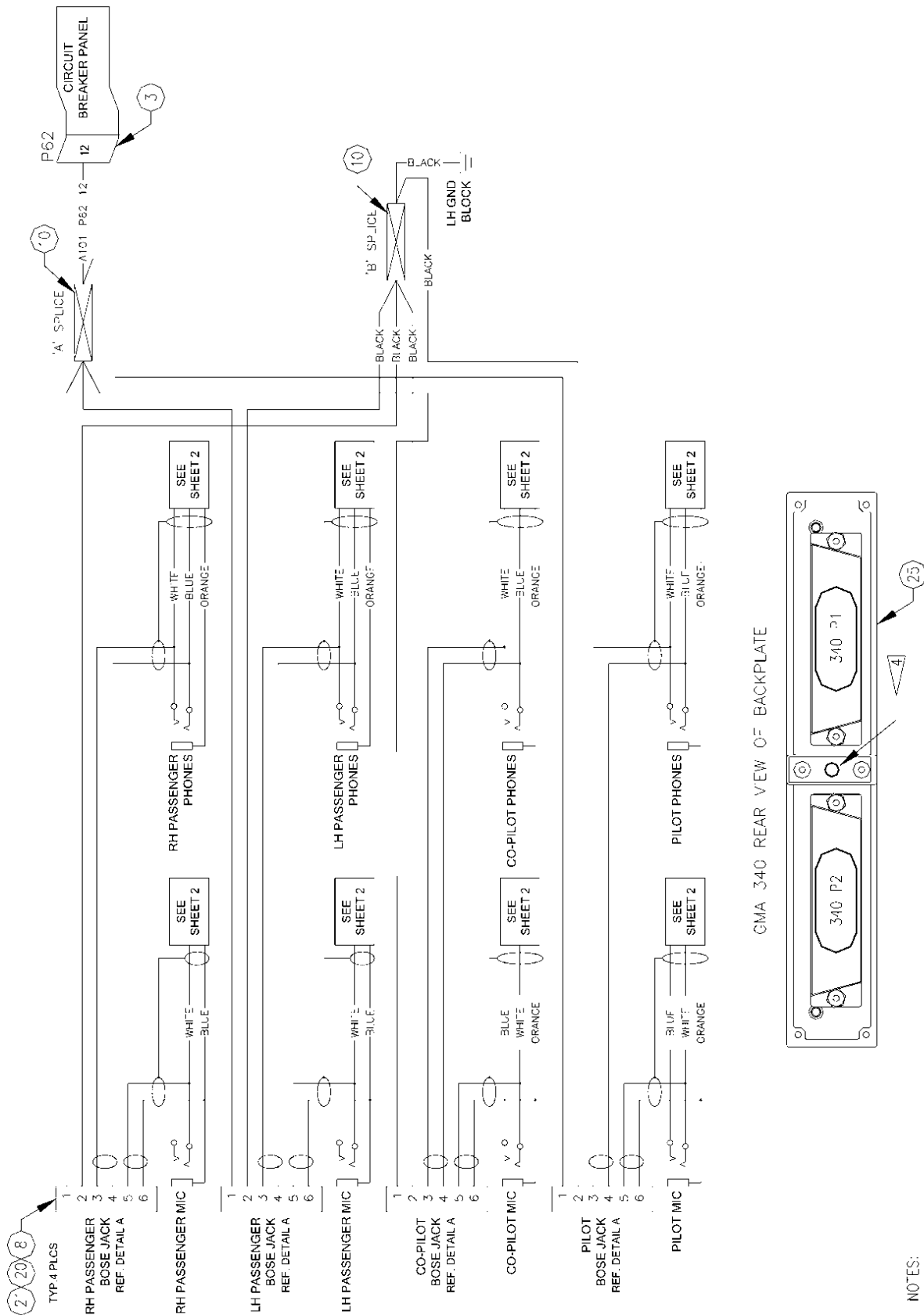
- End of Chapter -



Detail 23 - 1 GMA 340 Audio Amp Wiring (LB53344310D2) (1/5)



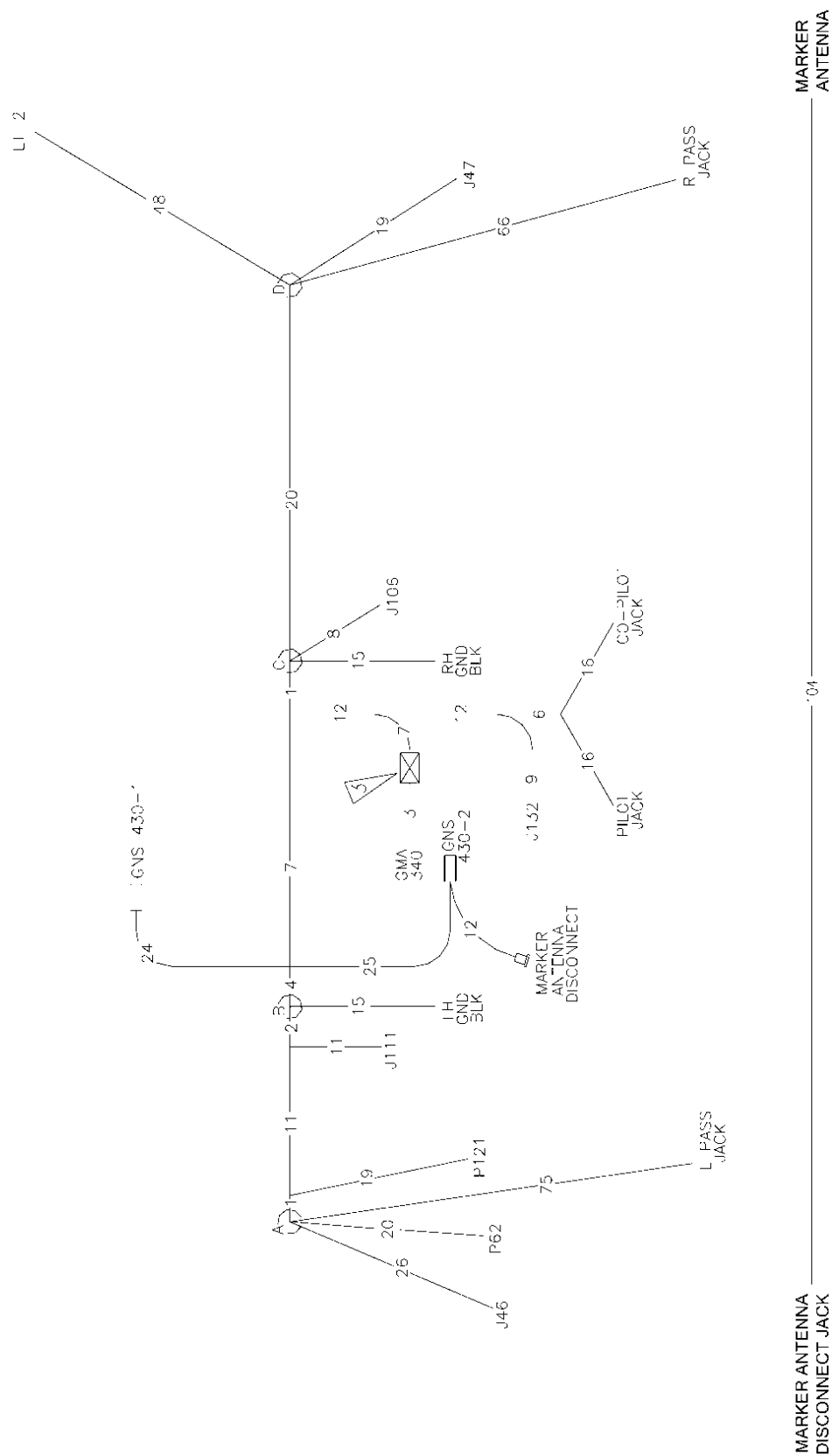
Detail 23 - 1 GMA 340 Audio Amp Wiring (2/5)



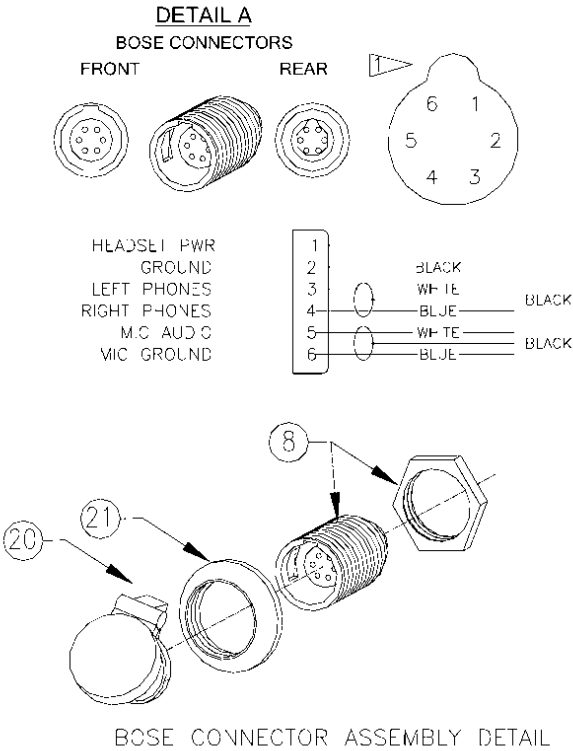
NOTES:

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2. NOT USED.
3. NOT USED.
4. CASE GROUND RING TERMINALS SHALL BE FASTENED AT THE

Detail 23 - 1 GMA 340 Audio Amp Wiring (3/5)



Detail 23 - 1 GMA 340 Audio Amp Wiring (4/5)

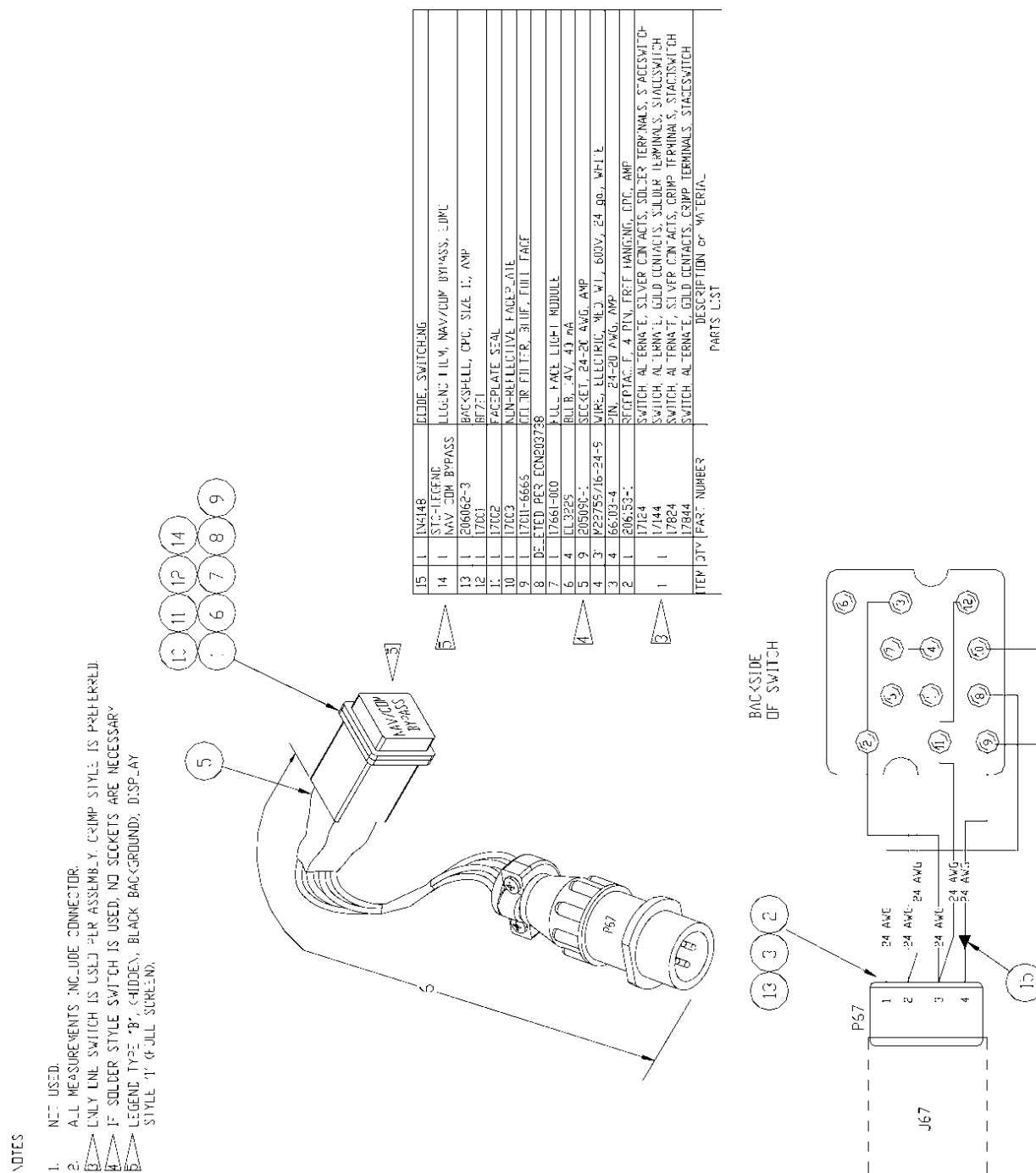


- 1 ALL CRIMPED SOCKETS INSERT FROM THE REAR OF THE CONNECTOR IN PATTERN SHOWN.
- 2 CRIMP STYLE PINS ARE PREFERRED.

25	1	011-00678-00	RACK, BACKPLATE, GMA 340, GARMIN
24	1	011-00652-00	CONNECTOR KIT, GMA 340, GARMIN
23	1	206036-3	RECEPTACLE, 7-16 PIN, CPC, FREE HANGING, AMP
22	2	36152	TERMINAL, RING, 22-16 AWG, #6 STUD, RFD
21	4	PKG.22.DLV.1	CAP NUT, LEMO-USA
20	4	BRR.2S.200.PZSN	CAP, LEMP-USA
19	55'	M27500/18-22-3	CABLE, ELEC., SHIELDED, 22 ga. THREE CONDUCTOR
18	42'	M27500/18-22-2	CABLE, ELEC., SHIELDED, 22 ga. TWO CONDUCTOR
17	6'	M27500/18-22-1	CABLE, ELEC., SHIELDED, 22 ga. SINGLE CONDUCTOR
16	8'	M22759/16-22-4	WIRE, ELEC., MED. WT., 600 V, 22 ga., YELLOW
15	69'	M22759/16-22-0	WIRE, ELEC., MED. WT., 600 V, 22 ga., BLACK
14	10'	RG58 C/U	CABLE, COAX
13	82'	M22759/16-22-9	WIRE, ELEC., MED. WT., 600 V, 22 ga., WHITE
12	1	690227	INSTALLATION KIT, MKL351, STEC
11	1	206070-1	BACKSHEET, SIZE 17, CPC, AMP
10	2	320559	SPLITTER, DC, 22-18 AWG, AMP
9	2	770333-1	RECEPTACLE, 3-PIN, FREE HANGING, AMP
8	4	PKG.MO.6TL.MN	CONNECTOR KIT, CRIMP STYLE TERMINALS, LEMO-USA
		PKG.MO.6TL.LN	CONNECTOR KIT, SOLDER STYLE TERMINALS, LEMO-USA
7	2	PKG.MO.6NL.MN	CONNECTOR KIT, CRIMP STYLE TERMINALS, LEMO-USA
		PKG.MO.6NL.LN	CONNECTOR KIT, SOLDER STYLE TERMINALS, LEMO-USA
6	2	225395-1	CONNECTOR, STRAIGHT, BNC, RG58, AMP
5	1	225396-1	CONNECTOR, STRAIGHT, BNC, RG58, AMP
4	10	794016-1	SOCKET, 24-18 AWG, AMP
3	2	770342-1	RECEPTACLE, 2 PIN, FREE HANGING, AMP
2	3	661034	PIN, 24 20 AWG, AMP
1	4	12B	JACK, PHONE, STEREO, SWITCHCRAFT
	4	J033	JACK, MIC, SWITCHCRAFT
ITEM	QTY	PART NUMBER	REV. DESCRIPTION or MATERIAL

PARTS LIST

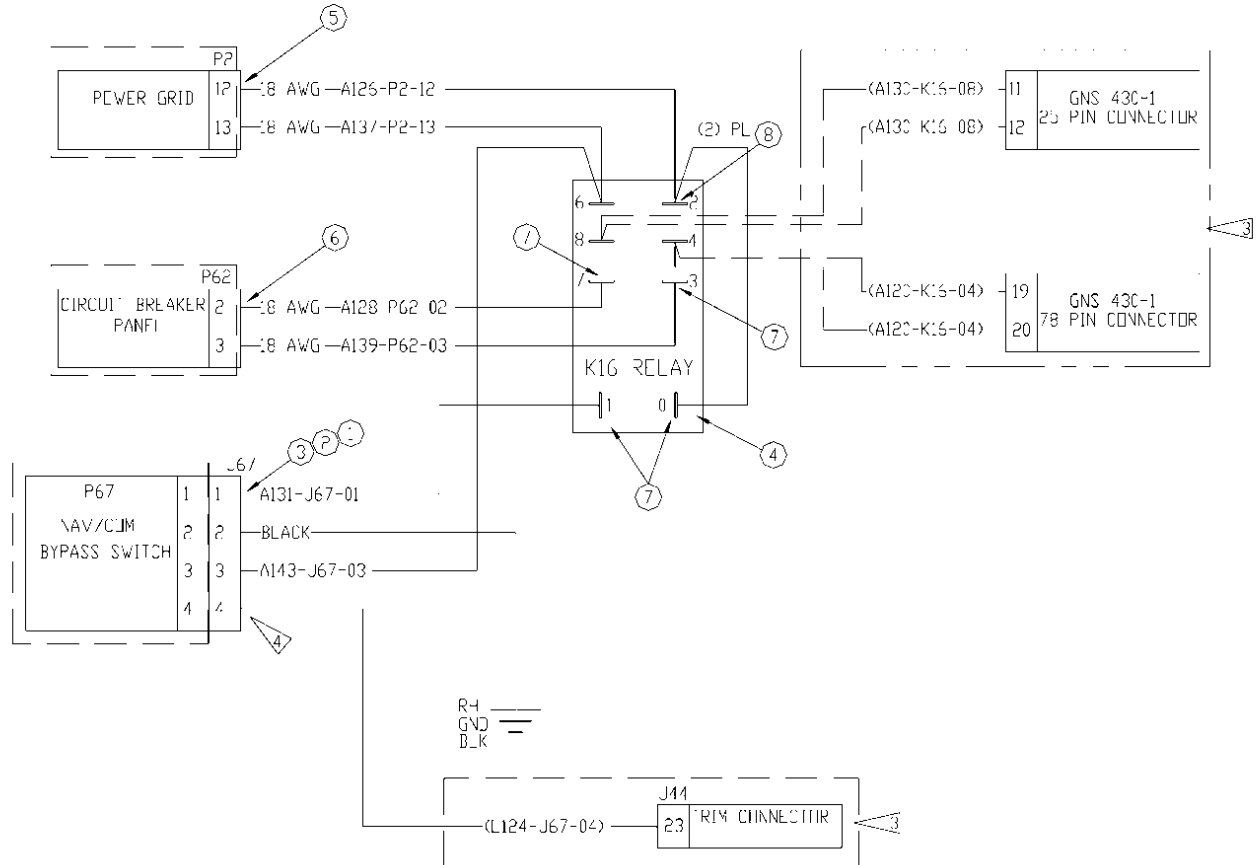
Detail 23 - 1 GMA 340 Audio Amp Wiring (5/5)



Detail 23 - 2 NAV/COM Bypass Switch (LB53511413B) (1/1)

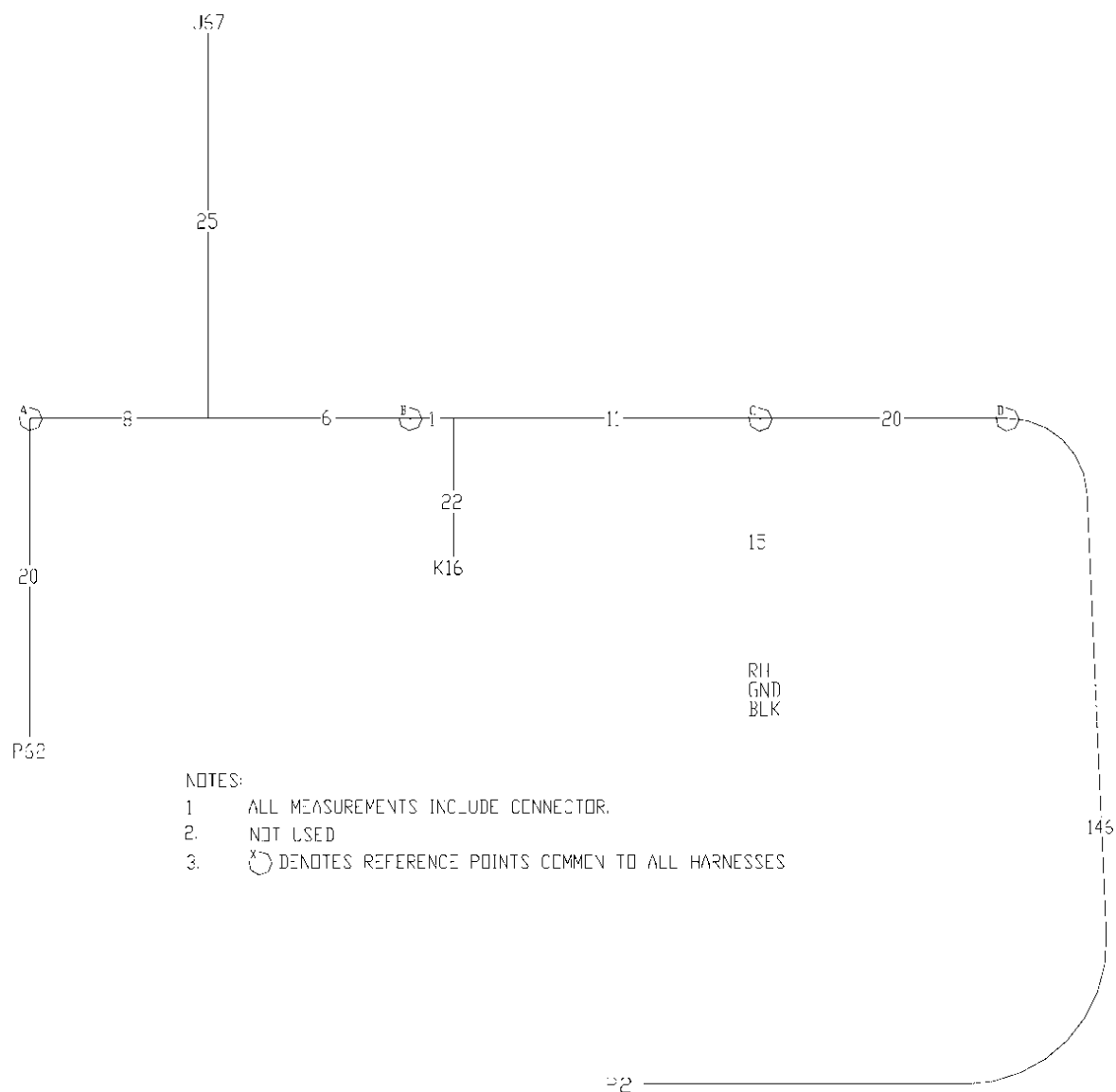
NOTES:

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2. NOT USED.
3. WIRING SHOWN HERE AS A REFERENCE ONLY. WIRES AND TERMINALS ARE PART OF REF. DRAWINGS SHOWN.
4. WIRE IS TRIMMED TO FIT, TERMINATED AND INSTALLED HERE. LEAVE CONNECTOR BODY OPEN UNTIL ALL WIRES ARE INSTALLED.

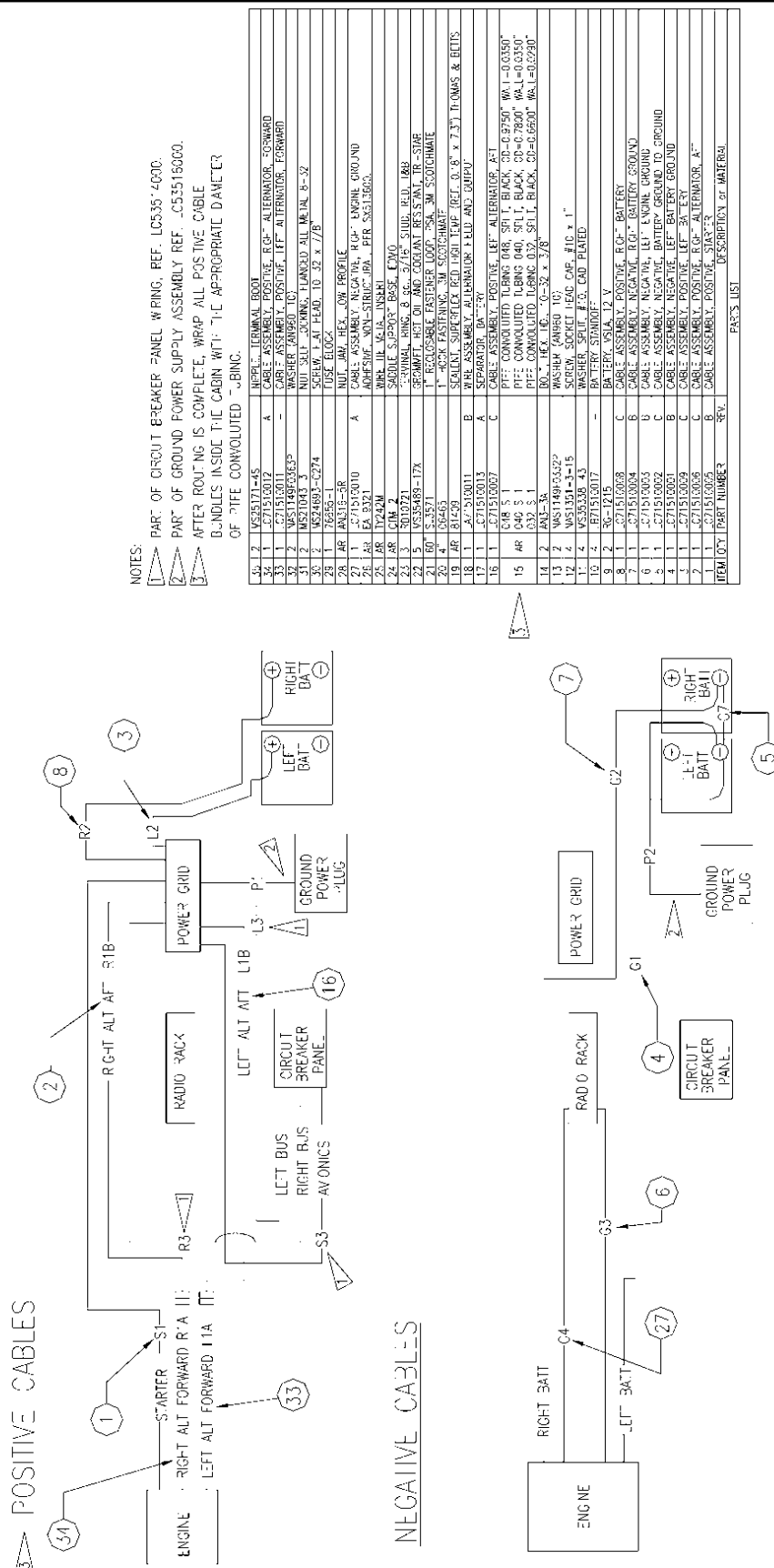


ITEM	QTY	PART NUMBER	REV.	DESCRIPTION OR MATERIAL
1	6'	M22759/16-22-3		WIRE, ELEC, MFD. WT., 600 V, 22 ga, BLACK
10	27'	M22759/16-22-9		WIRE, ELEC, MFD. WT., 600 V, 22 ga, WHITE
9	27'	M22759/16-18-5		WIRE, ELEC, MFD. WT., 600 V, 18 ga, WHITE
8	2	610905-1		RECEPTACLE, 250 BLUE, 16-14, AMP
7	4	610903-1		RECEPTACLE, 250 RED, 22-18, AMP
6	2	65361-4		PIN, 18-14 AWG, AMP
5	2	65099-4		PIN, 18-14 AWG, AMP
4	1	W92S11022-12		RELAY, 12VDC-20 A, MAGNETIC
3	4	65105-4		SOCKET, 24-20 AWG, AMP
2	1	23606C-1		PLUG, 4 PIN, FREE HANGING, AMP
1	1	23606C-3		BACKSHELL, CPC, SIZE 1, AMP
PARTS LIST				

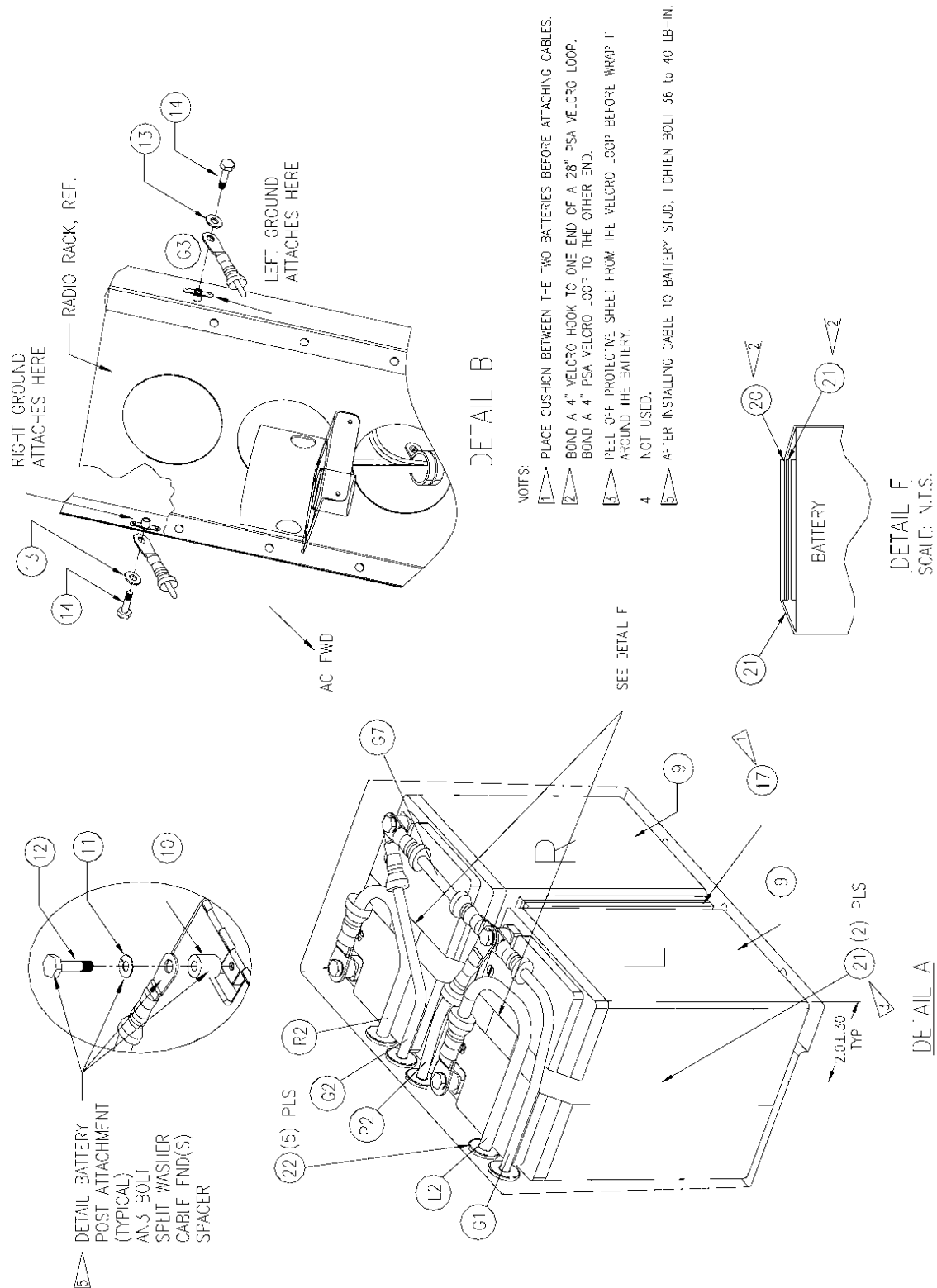
Detail 23 - 3 NAV/COM Bypass Wiring, Garmin Avionics (LC53511415-1) (1/2)

**Detail 23 - 3 NAV/COM Bypass Wiring (2/2)**

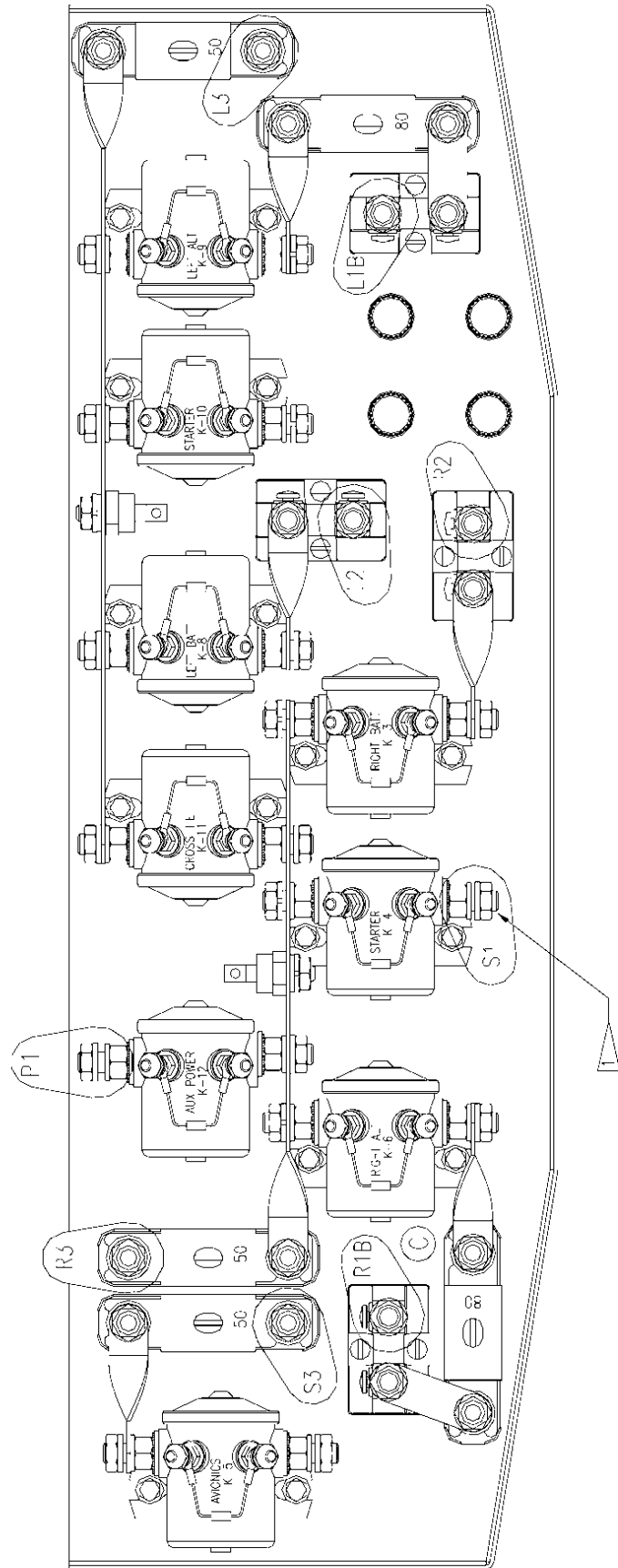
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Detail 24 - 1 Electrical Power Cable Distribution (LC71510000D) (1/8)



Detail 24 - 1 Electrical Power Cable Distribution (2/8)



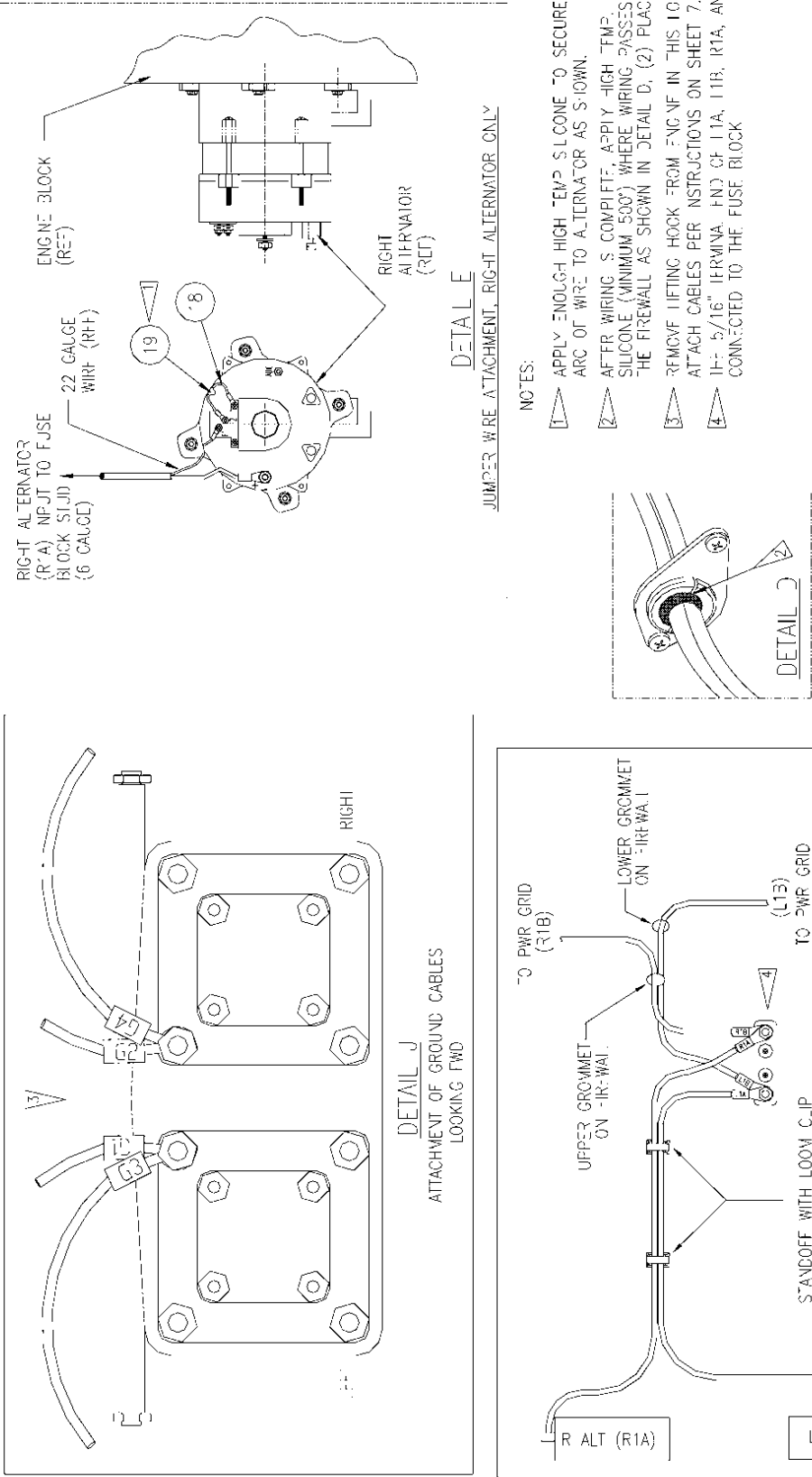
DETAIL C

CABLE ATTACHMENT TO THE POWER DISTRIBUTION GROUND

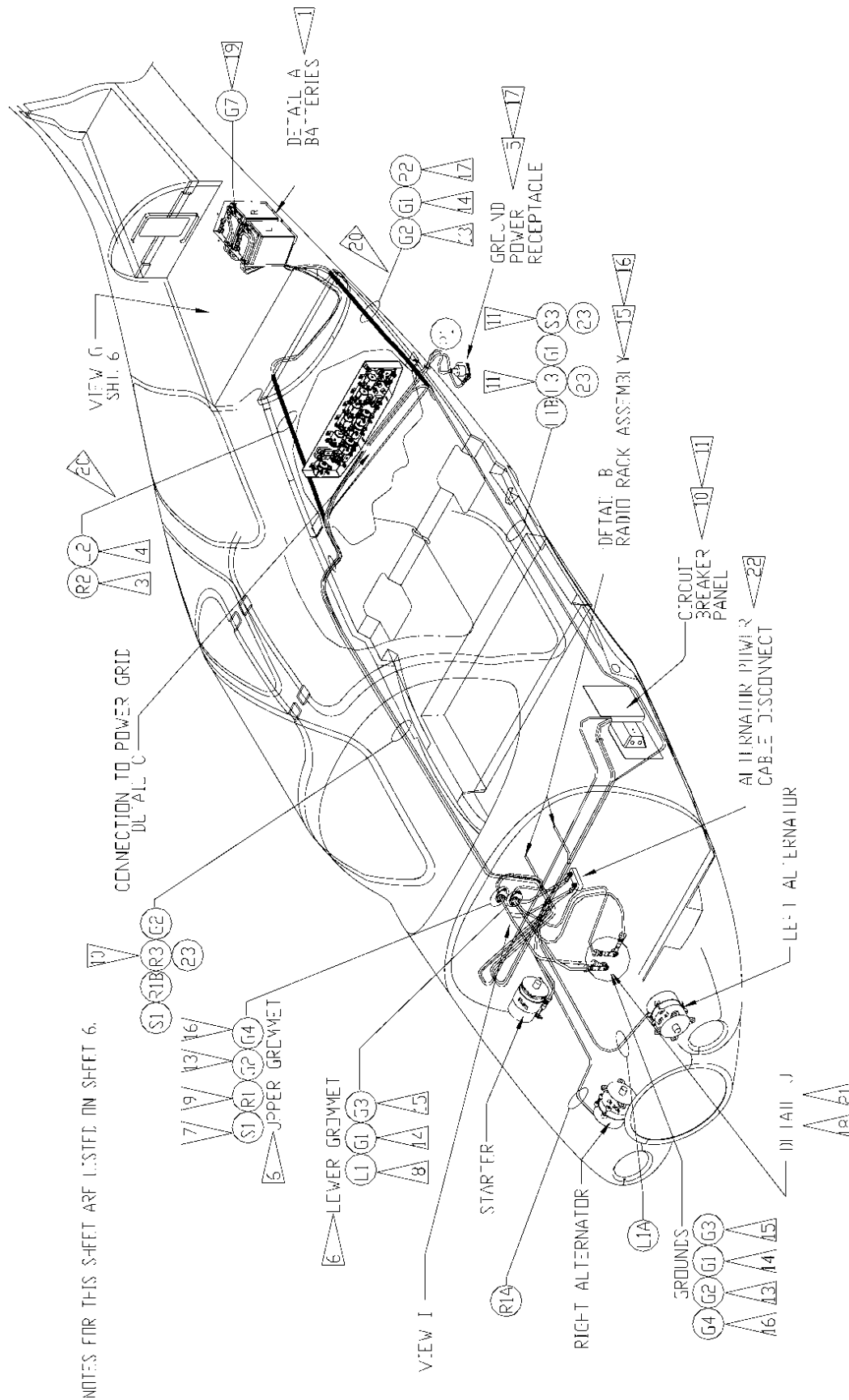
NOTES:

- IF A MINIMUM OF TWO WIRE-READS ARE NOT SHOWING AFTER INSTALLATION OF THE S1 CABLE, REMOVE THE AN315-5R NUT AND REPLACE IT WITH A LOW PROFILE AN316 5R NUT.

Detail 24 - 1 Electrical Power Cable Distribution (3/8)



Detail 24 - 1 Electrical Power Cable Distribution (4/8)

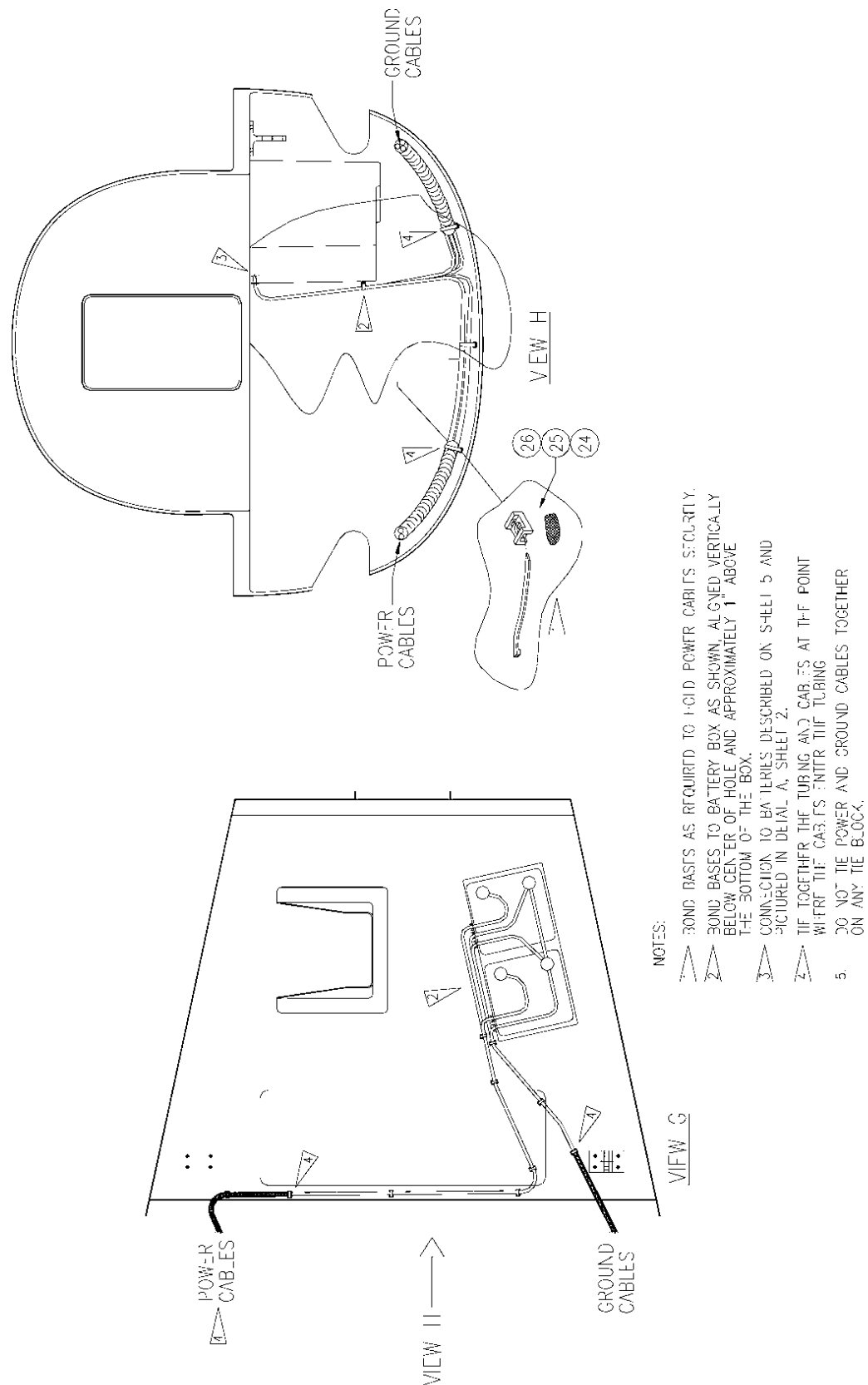


Detail 24 - 1 Electrical Power Cable Distribution (5/8)

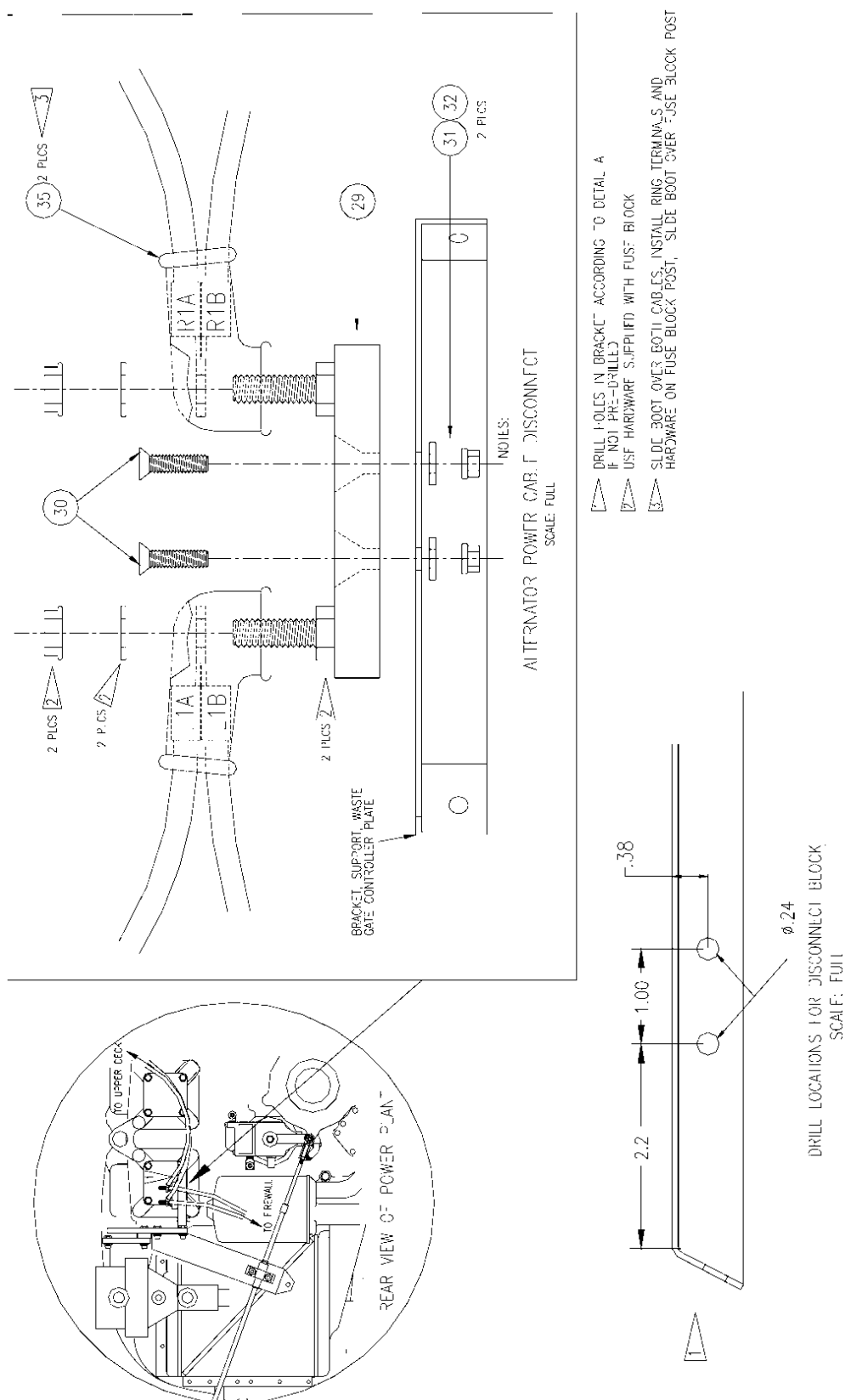
NOTES FOR SHEET 15:

1. WHEN CONNECTING OR DISCONNECTING THE BATTERY CABLES, ALWAYS CONNECT THE POSITIVE CABLE FIRST AND ALWAYS DISCONNECT THE NEGATIVE CABLE FIRST. NOTICES 2 THROUGH 11 APPLY TO POSITIVE CABLES.
2. NOT USED.
3. ATTACH THE SMALLER TERMINAL TO THE RIGHT SIDE (FARTHEST AFT) POSITIVE BATTERY STUD (DETAIL A) AND ROUTE THE CABLE (G2) TO THE POWER GRID ASSEMBLY (SEE SHEET 6, POWER CABLES). ATTACH TO THE SHUNT PER DETAIL C.
4. ATTACH THE SMALLER TERMINAL TO THE LEFT SIDE POSITIVE BATTERY STUD (DETAIL A) AND ROUTE THE CABLE (G2) TO THE POWER GRID ASSEMBLY (SEE SHEET 6, POWER CABLES). ATTACH TO THE SHUNT PER DETAIL C.
5. ROUTE THE POSITIVE CABLE FROM THE GROUND POWER RECEPTACLE (P1) TO THE POWER GRID PANEL. TRIM TO FIT AT THE STUD ON THE AUX POWER RELAY, TERMINATE AND ATTACH TO THE SHUNT PER DETAIL C.
6. POWER AND GROUND WIRES RUNNING IN BUNDLES AND GOING THROUGH A FIREWALL HOLE MUST BE MAINTAINED IN A SYSTEM LEFT AND RIGHT GROUND WIRES MUST BE IN THE SAME BUNDLE. DO NOT MISMATCH LEFT AND RIGHT WIRES. FOR EXAMPLE: DO NOT RUN A LEFT ALT AND A RIGHT GROUND WIRE TOGETHER THROUGH THE GROMMET.
7. ATTACH THE END OF THE STARTER CABLE (G3) TO THE STARTER AS SHOWN. ROUTE THE OTHER END THROUGH THE UPPER GROMMET IN THE FIREWALL AND ALONG THE RIGHT SIDE OF THE FUSELAGE. ATTACH TO THE STARTER SHUNT PER DETAIL C.
8. ATTACH THE LARGE END OF THE LEFT ALTERNATOR CABLE (L1) TO THE STUD ON THE LEFT ALTERNATOR. ROUTE THE OTHER END PER DETAIL K, AND THROUGH THE LOWER GROMMET ON THE FIREWALL AND ALONG THE LEFT SIDE OF THE FUSELAGE TO THE POWER GRID. ATTACH TO THE SHUNT PER DETAIL C.
9. ATTACH THE LARGE END OF THE RIGHT ALTERNATOR CABLE (R1) TO THE STUD ON THE RIGHT ALTERNATOR (AT THE FRONT OF THE ENGINE). ROUTE THE OTHER END PER DETAIL K, AND THROUGH THE UPPER GROMMET ON THE FIREWALL AND ALONG THE RIGHT SIDE OF THE FUSELAGE TO THE POWER GRID. ATTACH TO THE SHUNT PER DETAIL C.
10. THE RIGHT BUS (R3) IS ROUTED FROM THE CIRCUIT BREAKER PANEL WITH THE LEFT SIDE BUNDLE ACROSS THE FIREWALL AND ALONG THE RIGHT SIDE FUSELAGE. CABLE IS TRIMMED TO FIT AND TERMINATED AT THE POWER GRID PANEL PER DETAIL C.
11. THE LEFT BUS (L3) AND AVIONICS BUS (S3) CABLES ARE ROUTED OUT OF THE CIRCUIT BREAKER PANEL AND DOWN THE LEFT SIDE OF THE FUSELAGE. THEY ARE TRIMMED TO FIT AND TERMINATED AT THE POWER GRID PANEL PER DETAIL C.
12. NOTES 13 THROUGH 20 APPLY TO NEGATIVE CABLES.
13. ATTACH THE SMALLER TERMINAL TO THE RIGHT SIDE (FARTHEST AFT) BATTERY GROUND STUD (DETAIL A) AND ROUTE THE CABLE (G2) ALONG THE LEFT SIDE OF THE FUSELAGE CROSSING OVER TO THE RIGHT SIDE IN FRONT OF THE POWER GRID. ROUTE THE CABLE THROUGH THE UPPER GROMMET ON THE FIREWALL AND ATTACH THE LARGER TERMINAL UNDER THE RIGHT SIDE NUT FORMERLY HOLDING THE LIFTING HOOK (REF. NOTE 18) AT THE REAR OF THE ENGINE PER DETAIL C.
14. ATTACH THE SMALLER TERMINAL TO THE LEFT SIDE BATTERY GROUND STUD (DETAIL A) AND ROUTE THE CABLE (G2) ALONG THE LEFT SIDE OF THE FUSELAGE ROUTE THROUGH THE LOWER GROMMET AND ATTACH THE LARGER TERMINAL UNDER THE LEFT SIDE NUT FORMERLY HOLDING THE LIFTING HOOK (REF. NOTE 18) AT THE REAR OF THE ENGINE PER DETAIL C.
15. ATTACH THE LARGER TERMINAL UNDER THE LEFT SIDE NUT HOLDING THE LIFTING HOOK AT THE REAR OF THE ENGINE PER DETAIL J. ROUTE THE CABLE (G3) THROUGH THE LOWER GROMMET ON THE FIREWALL AND ATTACH THE SMALLER TERMINAL TO THE LEFT SIDE GROUNDING NUT PLATE ON THE RADIO RACK PER DETAIL B.
16. ATTACH THE LARGER TERMINAL UNDER THE RIGHT SIDE NUT HOLDING THE LIFTING HOOK AT THE REAR OF THE ENGINE PER DETAIL J. ROUTE THE CABLE (G4) THROUGH THE UPPER GROMMET IN THE FIREWALL AND ATTACH THE SMALLER TERMINAL TO THE RIGHT SIDE GROUNDING NUT PLATE ON THE RADIO RACK PER DETAIL B.
17. ROUTE THE NEGATIVE CABLE FROM THE GROUND POWER RECEPTACLE (P2) AFT ALONG THE LEFT SIDE OF THE FUSELAGE TO THE LEFT BATTERY GROUND (G-) POST. INSTALL (P2) CABLE PER DETAIL A.
18. REMOVE THE LIFTING HOOK AND DISCARD. SAVE THE HARDWARE FOR INSTALLING GROUND CABLES G1, G2, G3, AND G4 PER DETAIL J.
19. CABLE (G1) ATTACHES TO BOTH NEGATIVE BATTERY STUDS PER DETAIL A.
20. THESE CABLES ARE TO BE COVERED WITH CONVULUTED TUBING FROM ENTRY UNDER THE FLOOR TO A MINIMUM OF 4" PAST THE EXIT THROUGH THE BAGGAGE BULKHEAD. (SEE SHEET 6).
21. AFTER ATTACHING GROUND CABLES, TIGHTEN NUTS FORMERLY HOLDING LIFTING HOOK.
22. L1A AND L1B ARE CONNECTED TO THE REAR LEFT STUD OF THE FUSELAGE BLOCK. R1A AND R1B ARE CONNECTED TO THE FORWARD RIGHT STUD OF THE FUSELAGE BLOCK.

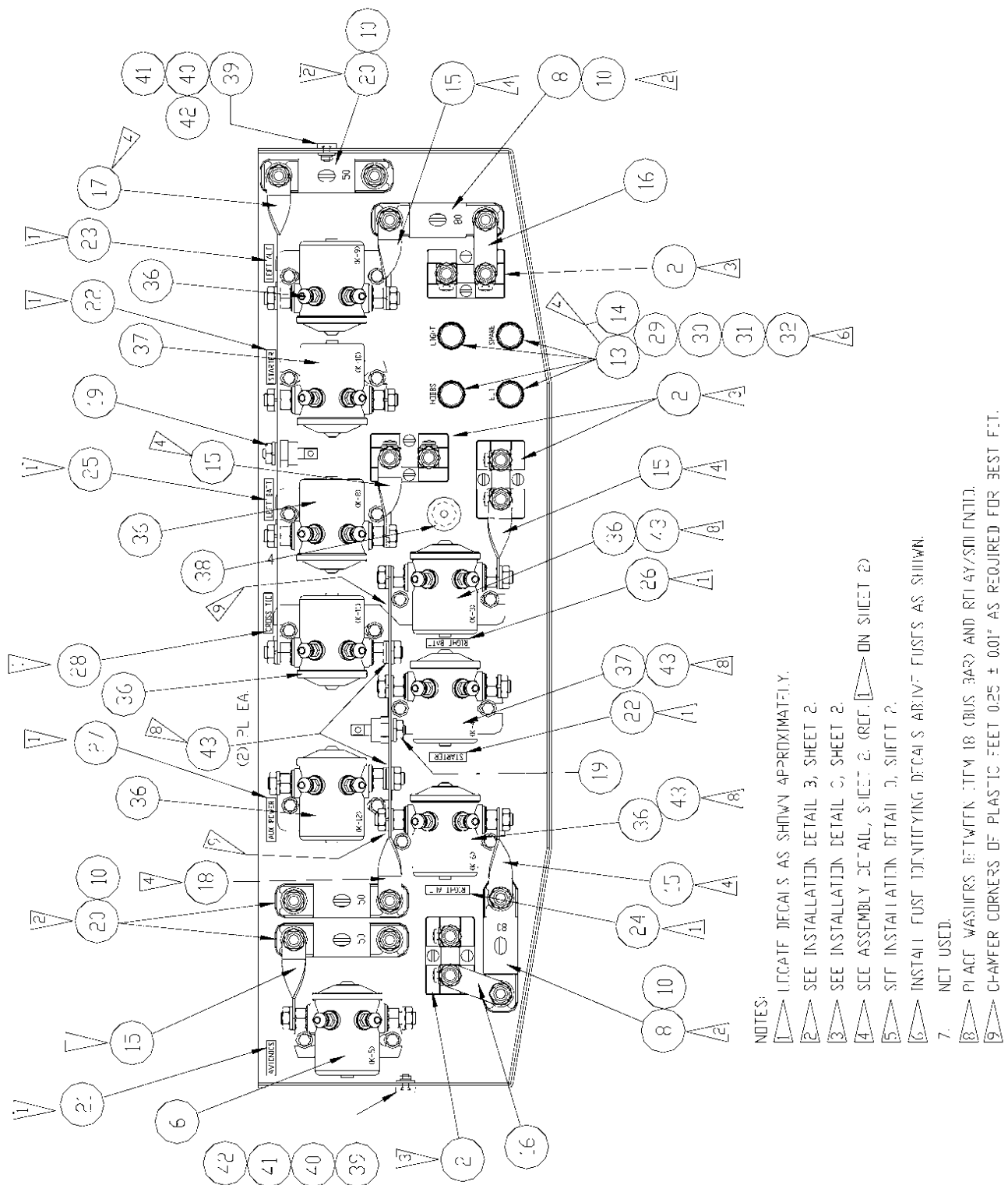
Detail 24 - 1 Electrical Power Cable Distribution (6/8)



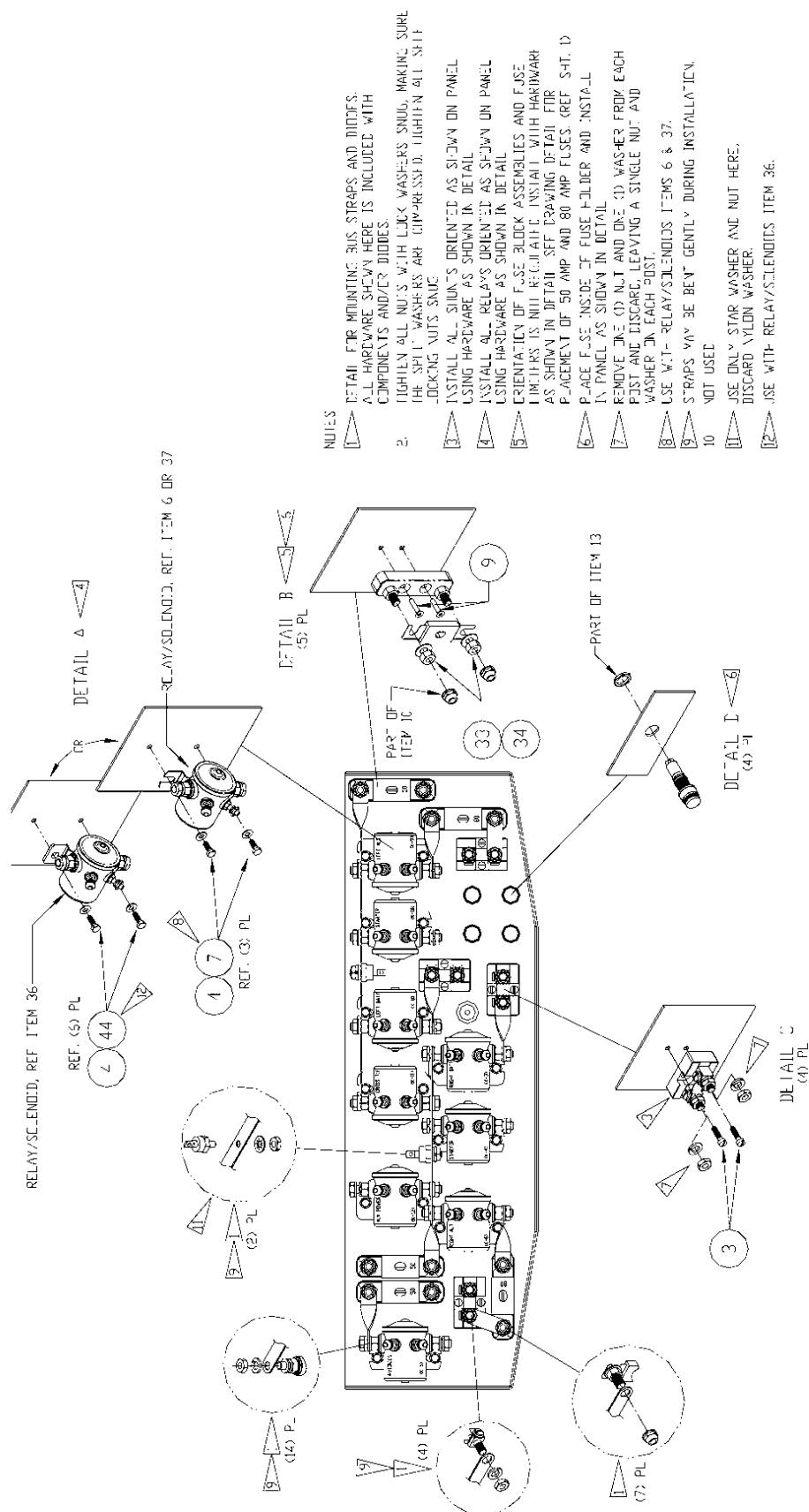
Detail 24 - 1 Electrical Power Cable Distribution (7/8)



Detail 24 - 1 Electrical Power Cable Distribution (8/8)



Detail 24 - 2 Power Grid Assembly (LC53242000A2) (1/3)

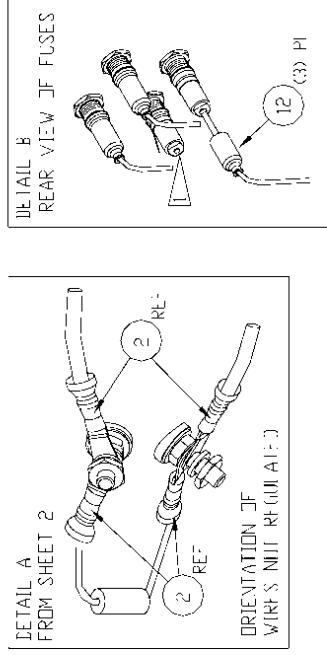
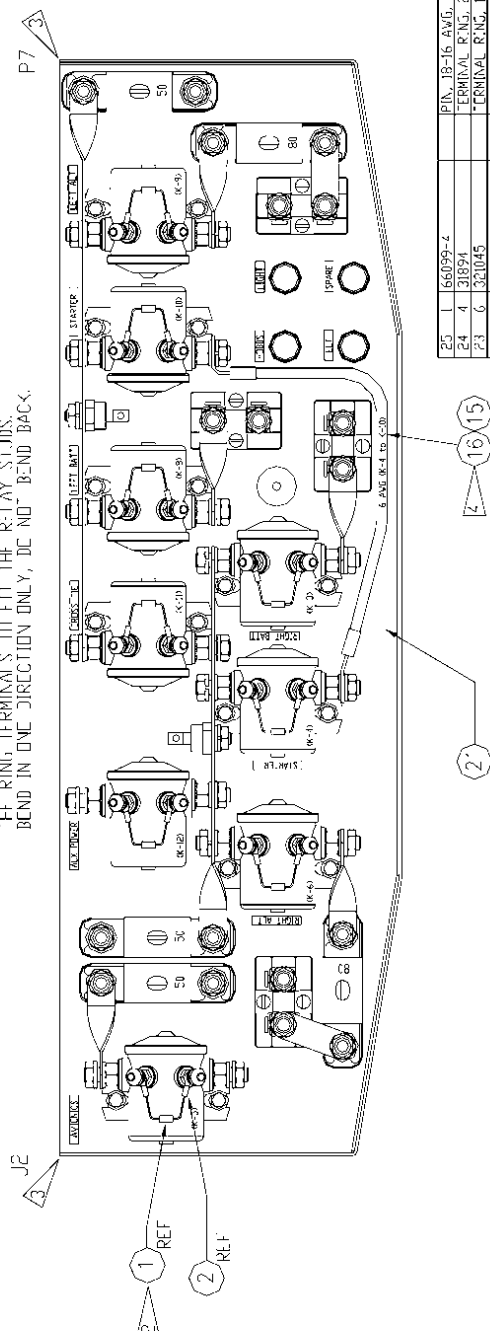


Detail 24 - 2 Power Grid Assembly (2/3)

44	12	AN4-5A		BOLT, HEX HEAD, 1/4-28 x 5/8"
43	7	NAS1149FN532P		WASHER, FLAT, 1/4
42	2	NAS1149FN832P		WASHER, FLAT, #8
41	2	MS21043 C8		NUT, SELF-LOCKING, ALL METAL, 8-32
40	2	MS24693C49		SCREW, FLAT HEAD, 8-32 x 7/16
39	2	TPMS S8 C		WIRE TIE BASE, LOW PROFILE, PANDUIT
38	1	MS35489-5		GRUMVLI
37	2	P4047		RELAY/SOLENOID, ON-OFF-REVERSE
36	6	70-906		RELAY/SOLENOID, STANCOR
35	1	MS35489-5		GRUMVLI
34	28	NAS1149F0563P		WASHER (AN960-516)
33	10	AN315-5R		NUT, PLAIN, HEX, 5/16 FINE THREAD
32	1	LA53115C03-4	UR	DECAL, FUSE, SPARE FUSE
31	1	LA53115C03-3		DECAL, FUSE, COURTESY LIGHT
30	1	LA53115C03-2		DECAL, FUSE, HCB3S
29	1	LA53115C03-1		DECAL, FUSE, ELT
28	1	LA53115C01-8		DECAL, RELAY, CROSS TIE
27	1	LA53115C01-7		DECAL, RELAY, AUX POWER
26	1	LA53115C01-6		DECAL, RELAY, RIGHT BATT
25	1	LA53115C01-5		DECAL, RELAY, LEFT BATT
24	1	LA53115C01-4		DECAL, RELAY, RIGHT ALT
23	1	LA53115C01-3		DECAL, RELAY, LEFT ALT
22	2	LA53115C01-2	A	DECAL, RELAY, STARTER
21	1	LA53115C01-1		DECAL, RELAY, AVIONICS
20	3	ANL-50		FUSE LIMITER ASSEMBLY, 50 AMP BUSS
19	2	AN21382A		DIODE, 60 AMP, ANODE TO STUD, DU-5 CASE
18	1	LC53242009	-1	BUS STRAP, LOWER, TURBO POWER GRID ASSEMBLY
17	1	LC53242007	1	BUS STRAP, UPPER, TURBO POWER GRID ASSEMBLY
16	2	LC53242005	-1	BUS STRAP, SHUNT TO FUSE BLOCK, TURBO POWER GRID ASSEMBLY
15	5	LC53242003	-1	BUS STRAP, SHUNT TO RELAY, POWER DISTRIBUTION GRID
14	4	HKP		FUSE HOLDER, SOLDER TERMINAL, BUSS
13	4	AGC3		FUSE, 3 AMP, BUSS
12				NOT USED
11				NOT USED
10	5	76655-1		FUSE BLOCK, LEFT AIR, INC
9	10	MS24693 C274		SCREW, FLAT HEAD, 10-32 x 7/8"
8	2	ANL-80		FUSE LIMITER ASSEMBLY, 80 AMP, BUSS
7	6	AN4-4A		BOLT, HEX HEAD, 1/4-28 x 1/2"
6	1	70-906		RELAY/SOLENOID, ASSEMBLY, STANCOR
5				NOT USED
4	18	NAS1149F0432P		WASHER, (AN960-416)
3	8	AN502-10-12		SCREW, FILLISTER HEAD, 10-32 x 3/4"
2	4	MLA-15C-50		SHUNT ASSEMBLY
1	1	LC53242001	B	PANEL, POWER GRID, TURBO
ITEM	QTY	PART NUMBFR	REV	DESCRIPTION or MATERIAL
PARTS LIST				

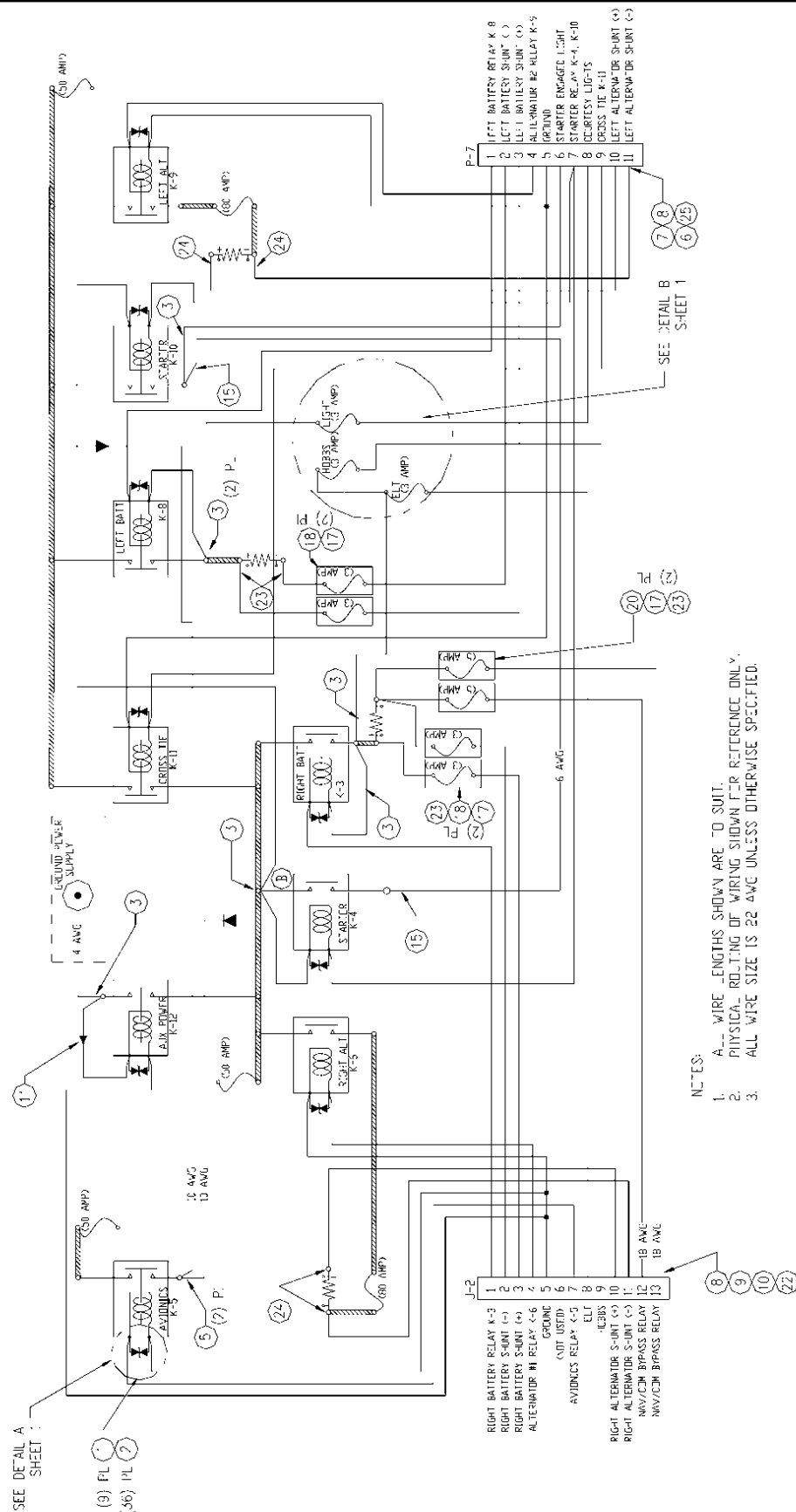
Detail 24 - 2 Power Grid Assembly (3/3)

- NOTE: THE FUSE HOLDER WITH THE SPARE FUSE DOES NOT REQUIRE A TERMINAL COVER
- 1 APPLY SMALL AMOUNT OF SILICONE ADHESIVE TO DIODE AND SOLIDIOD TO HOLD IN PLACE.
- 2 LENGTH OF FINISHED HARNESS FROM THIS POINT IS 6" TO 8" INCLUDING CONNECTOR.
- 3 ROUTE THE 6 GA. WIRE BETWEEN THE TWO STARTER RELAYS AS SHOWN. IT IS ACCEPTABLE TO GENTLY BEND THE RING TERMINALS TO FIT THE R-TAY STUDS. BEND IN ONE DIRECTION ONLY, DO NOT BEND BACK.



ITEM	QTY	PART NUMB.	REV.	DESCRIPTION or MATERIAL
25	1	166099-4		PIN, 18-16 AWG, AMP
24	4	21894		TERMINAL RING, 22-16 AWG, 1/4 STUD, RED
23	6	22045		TERMINAL RING, 16-14 AWG, 1/4 STUD, BLUE
22	2	16101-4		SOCKET, 16-14 AWG, AMP
21	1	LC5324200	A	POWER GRID ASSEMBLY, TURBO
20	2	4005		OSC, 5 AMP, BUSS
19				NOT USED
18	8	4603		FUSE, 3 AMP, BUSS
17	6	155100		FUSEHOLDER, IN LINE, T-WAY, JKS, UNIVERSA
16	1	M22759/16-6-9		WIRE, ELEC, RED, WT. 600 V., 6 GA., WHITE
15	2	RE10721		TERMINAL RING, 6 GA, 5/16" STUD, BLUE, T&B
14	2	M22759/16-1-9		WIRE, ELEC, RED, WT. 600 V., 12 GA., WHITE
13	3	M22759/16-22-9		WIRE, ELEC, RED, WT. 600 V., 22 GA., WHITE
12	3	M520		TERMINAL COVER, FUSE, ARCOL-CT13
11	1	G751		DIODE, 60 AMP
10	10	166105-4		SOCKET, 24-20 AWG
9	1	206037-1		PLUG, 17-6 PIN, SIZE 11 CPC
8	2	206076-1		BACKSHIELD, 1/4", 1/4"
7	1	206036-3		RECEPTACLE, 17-6 PIN, CPC, FREE HANGING
6	1	166103-4		PIN, 24-20 AWG
5	2	3511		TERMINAL RING, 12-10 AWG, 5/16 STUD, YELLOW
4	AR	18129		ADHESIVE, SILICONE, RTV
3	4	31895		TERMINAL RING, 22-16 AWG, 5/16 STUD, RED
2	36	36154		TERMINAL RING, 22-16 AWG, #10 STUD, RED
1	9	PK627CA		TRANSIENT VOLTAGE SUPPRESSION (TVS) DIODE, 600 W, 31-DIRECTIONAL
ITEM QTY PART NUMB. REV.				DESCRIPTION or MATERIAL

Detail 24 - 3 Power Grid Wiring (LC53512000B1) (1/2)



Detail 24 - 3 Power Grid Wiring (2/2)

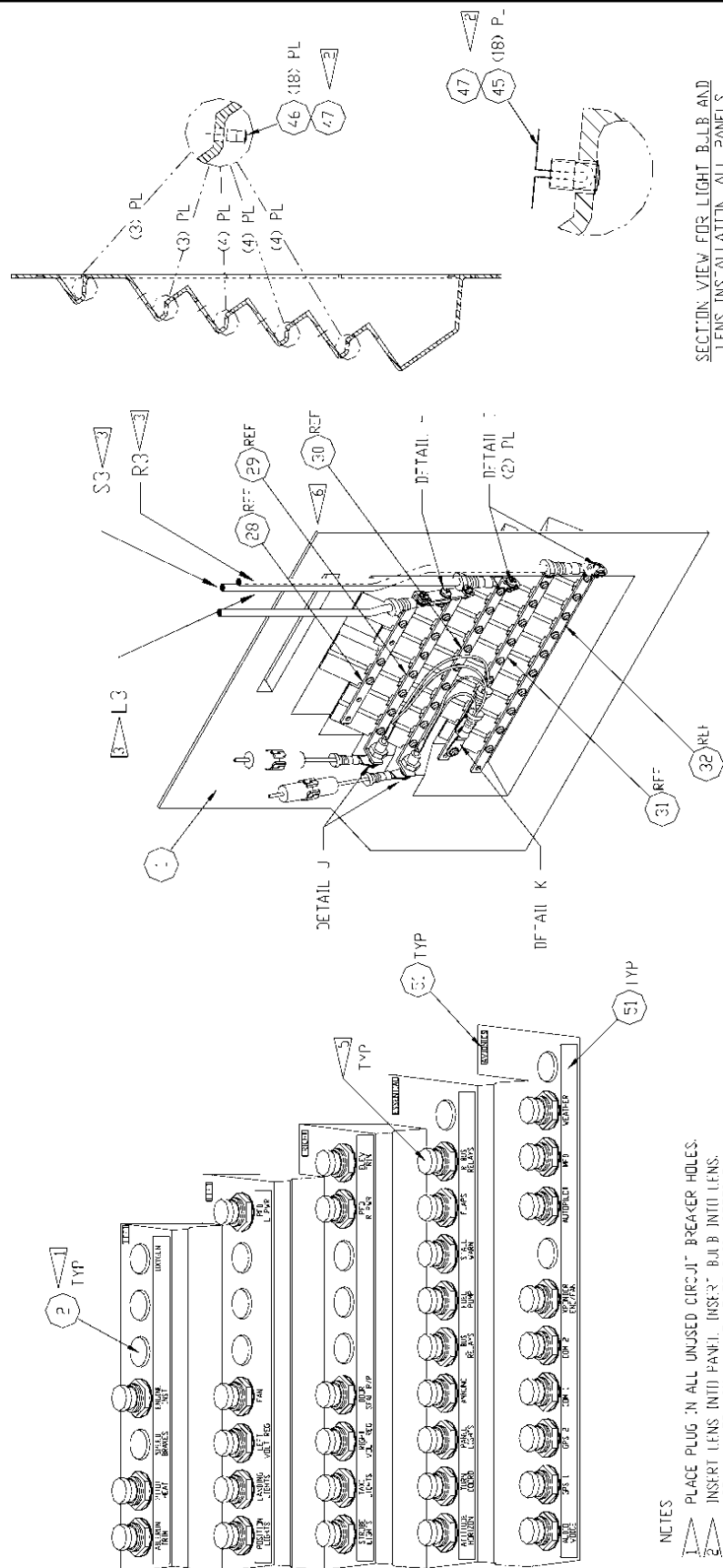
NOTE

1 USE DETERMINE PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.

2 THIS CIRCUIT BREAKER INSTALLATION IS USED ONLY IF THE SPEED BRAKE OPTION IS INSTALLED SEE NOTE 1.

54	2	36150		TERMINAL RING, 16-14 AWG, #10 STUD, BLUE, AMP
53	3	31886		TERMINAL, RING, 22-16 ga., #8 STUD, RED, AMP
52	1	320360		TERMINAL, RING, 16-14 ga., #8 STUD, BLUE, AMP
51	1	LC5314015	-	DECAIS, CIRCUIT BREAKER PANEL, 40C
50	1	B5334509	-	CIRCUIT BREAKER INSTALLATION, SPEED BRAKES
49	40	Y22759/15-8-9		WIRE, ELECTRIC, MED. WT., 600 V, 8 ga., WHITE
48	2	DS50-6C-P8-1		SURGE SUPPRESSOR, LOW VOLTAGE, UNI-POLAR
47	AR	CP110		ADHESIVE, NON STRUCTURAL, LOCTITE
46	18	92F3278		LENS CAP, LED, CLEAR (SYM 170 CTP)
45	18	683		LAMP
44	2	YS21042L3		NUT, SELF LOCKING, LOW HEIGHT, #10
43	4	NAS1149FC363P		WASHER (AN960-10)
42	4	AN526C63PR6		SCREW, TRUSS HEAD, #6 x 3/8"
41	6	NAS1149FV632P		WASHER (AN960-6)
40	4	YS21042L3		NUT, SELF LOCKING, LOW HEIGHT, #6
39				NOT USED
38	3	AN526C832R8		SCREW, TRUSS HEAD #8 x 1/2"
37	6	NAS1149FV832P		WASHER (AN960-8)
36	3	YS21042L3		NUT, SELF LOCKING, LOW HEIGHT, #8
35	2	AGC3		FUSE, 3 AMP, BUSS
34	2	55100U		FUSEHOLDER, IN-LINE, TWIST-LOCK, UNIVERSAL
33	1	AS3514C31	-1	BUS BAR, CIRCUIT BREAKER, JUMPER
32	1	AS3514C29	-2	BUS BAR, CIRCUIT BREAKER, ROW 5
31	1	AS3514C27	-1	BUS BAR, CIRCUIT BREAKER, ROW 4, ALL ELECTRIC
30	1	AS3514C25	-1	BUS BAR, CIRCUIT BREAKER, ROW 3
29	1	AS3514C23	-1	BUS BAR, CIRCUIT BREAKER, ROW 2
28	1	AS3514C01	-1	BUS BAR, CIRCUIT BREAKER, ROW 1, ALL ELECTRIC
27	3	RD10161		TERMINAL, RING, 8 ga., #8 STUD, THOMAS & BETTS
26	AR	Y22759/15-22-9		WIRE, ELEC, MED. WT., 600 V, 22 ga., WHITE
25	AR	Y22759/15-20-9		WIRE, ELEC, MED. WT., 600 V, 20 ga., WHITE
24	AR	Y22759/15-18-9		WIRE, ELEC, MED. WT., 600 V, 18 ga., WHITE
23	AR	Y22759/15-16-9		WIRE, ELEC, MED. WT., 600 V, 16 ga., WHITE
22	AR	Y22759/15-14-9		WIRE, ELEC, MED. WT., 600 V, 14 ga., WHITE
21	2	25FR60		DIODE, DO4 CASE, ANODE TO STUD, 25A, 600V, C&H TECHNOLOGY
20	2	704-15K36T		TRANSIENT VOLTAGE SUPPRESSOR, PROTEK DEVICES
19	1	2063C3-2		RECEPTACLE, 23 37 REVERSE SEX, FREE HANGING, AMP
18	2	36154		TERMINAL RING, 22-16 AWG, #10 STUD, RED, AMP
17	3	66360-4		SOCKET, 18-24, BRASS, AMP
16	13	66131-4		SOCKET, 18-16, AWG, AMP
15	30	66135-4		SOCKET, 24-20, AWG, AMP
14	2	206138-1		BACKSHELL SIZE 23, CPC,AMP
13	1	206070 1		BACKSHELL SIZE 17, CPC,AMP
12	1	206037-1		PLUG, 17-16 PIN, CPC,AMP
11	1	206837-1		PLUG, 23-24 PIN, CPC,AMP
10	10	36158		TERMINAL RING, 16-14 AWG, #6 STUD, BLUE, AMP
9	23	36152		TERMINAL RING, 22-16 AWG, #6 STUD, RED, AMP
8	10	7277-2-10		CIRCUIT BREAKER, 10 AMP, KLIXON
7	2	7277-2-7.5		CIRCUIT BREAKER, 7.5 AMP, KLIXON
6	12	7277-2-5		CIRCUIT BREAKER, 5 AMP, KLIXON
5	2	7277-2-4		CIRCUIT BREAKER, 4 AMP, KLIXON
4	4	7277-2-3		CIRCUIT BREAKER, 3 AMP, KLIXON
3	2	7277-2-1		CIRCUIT BREAKER, 1 AMP, KLIXON
2	13	CP-437		PLUG, HEYCO DOME, 7/16", HEYCO
1	1	AS3514C18	1	PANEL, CIRCUIT BREAKER, DUAL BUS
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL PARTS LIST

Detail 24 - 4 Circuit Breaker Panel Wiring (LC53514000A4) (1/4)



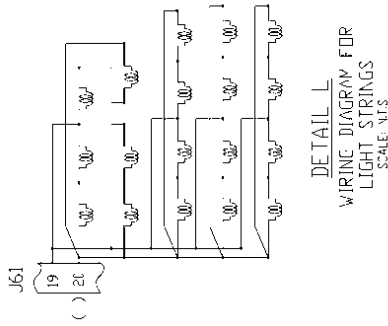
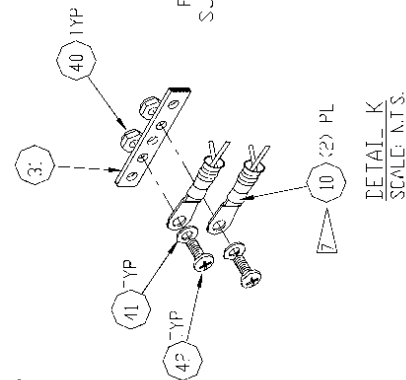
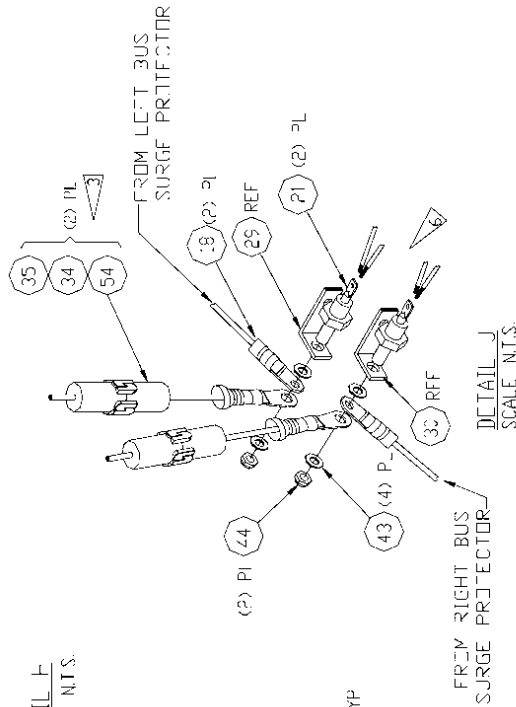
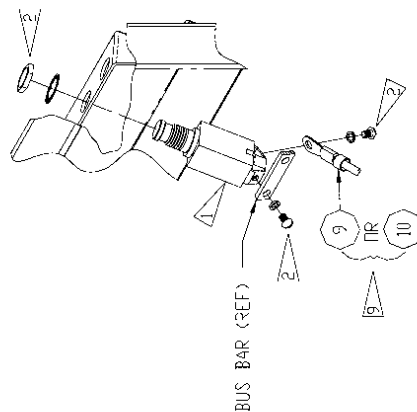
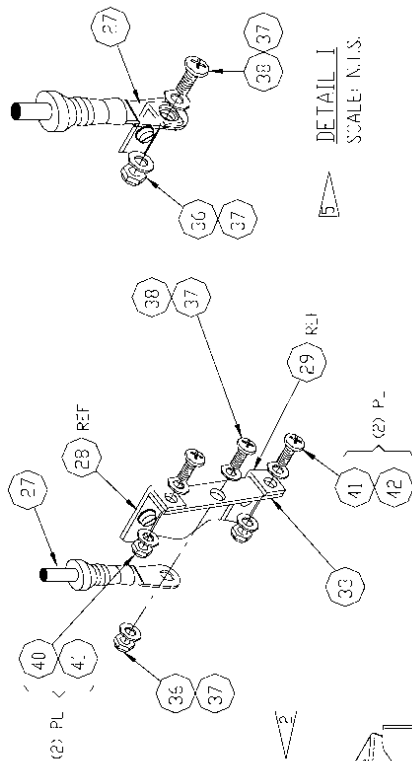
NOTES

1. PLACE PLUG IN ALL UNUSED CIRCUIT BREAKER HOLES.
2. INSERT LENS INTO PANEL INSERT BULB INTO LENS.
3. APPLY A VERY SMALL AMOUNT OF GLUE SETTING ADHESIVE TO HOLD LENS AND BULB IN PLACE. CONNECT WIRING AS SHOWN ON SHEET 3, DETAIL 1.
4. L3 & S3 CABLE LENGTH IS 120" R3 CABLE LENGTH 220". AFTER ATTACHMENT, LABEL UNTERMINATED ENDS. CULL AND SECURE WITH A WIRE TIE. TERMINATION WILL BE COMPLETED IN A LATER ASSEMBLY. SLIDE 2 LAYERS OF HEAT SHRINK MATERIAL OVER UNUSED COPPER, IF ANY, AFTER INSTALLING ALL CIRCUIT BREAKERS.
5. FOR CIRCUIT BREAKER SIZES AND LOCATIONS, REFER TO THE SCHEMATIC DIAGRAM ON SHEET 4.
6. FINISHED WIRE HARNESS LENGTHS, CONNECT TO POINT MARKED: .16" = 15", .162" = 13", .163" = 11".

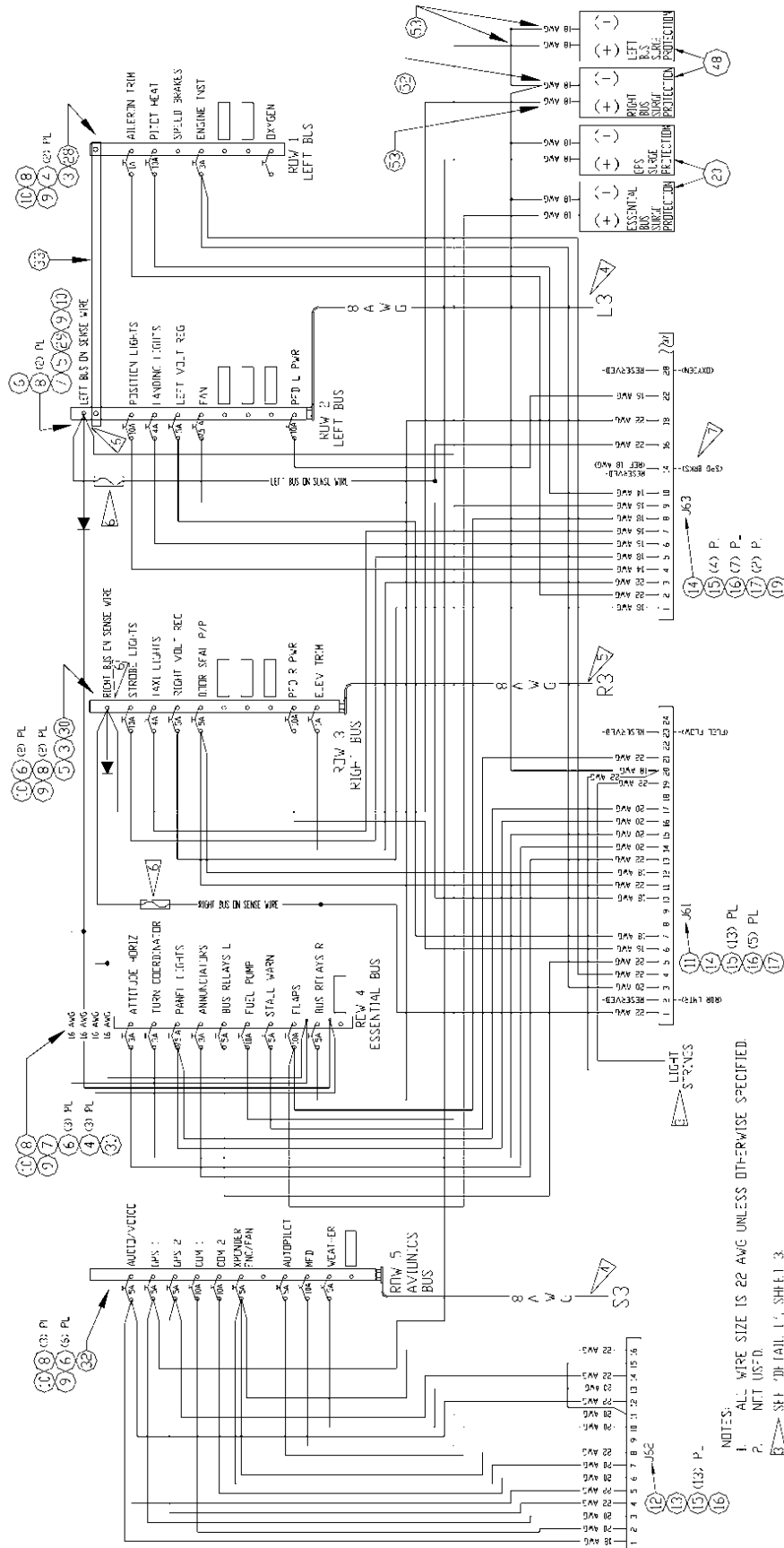
Detail 24 - 4 Circuit Breaker Panel Wiring (2/4)

NOTES:

1. Klixon circuit breakers include #6 washer and screw for attaching terminal ring and bus bar, and the face nut and washer for mounting breaker into the panel. Discard the square washer.
2. Torque #6 nut to 1/4 turn.
3. Attach fuseholder to terminal ring and assemble to diode and bus bar as shown. Discard mounting hardware included with the diodes. The fuseholders into wire bundle after all connections have been made.
4. Torque #6 hardware to 1/2 in-lb.
5. Torque #8 hardware to 25 in-lb.
6. Strip wires and solder to end of diode. Cover with heat shrink tubing when done.
7. Trim wires to suit and crimp ring terminal to ends.
8. Not used.
9. Ring terminal is secured to wire as shown. Wire is then terminated per schematic on sheet 4.



Detail 24 - 4 Circuit Breaker Panel Wiring (3/4)



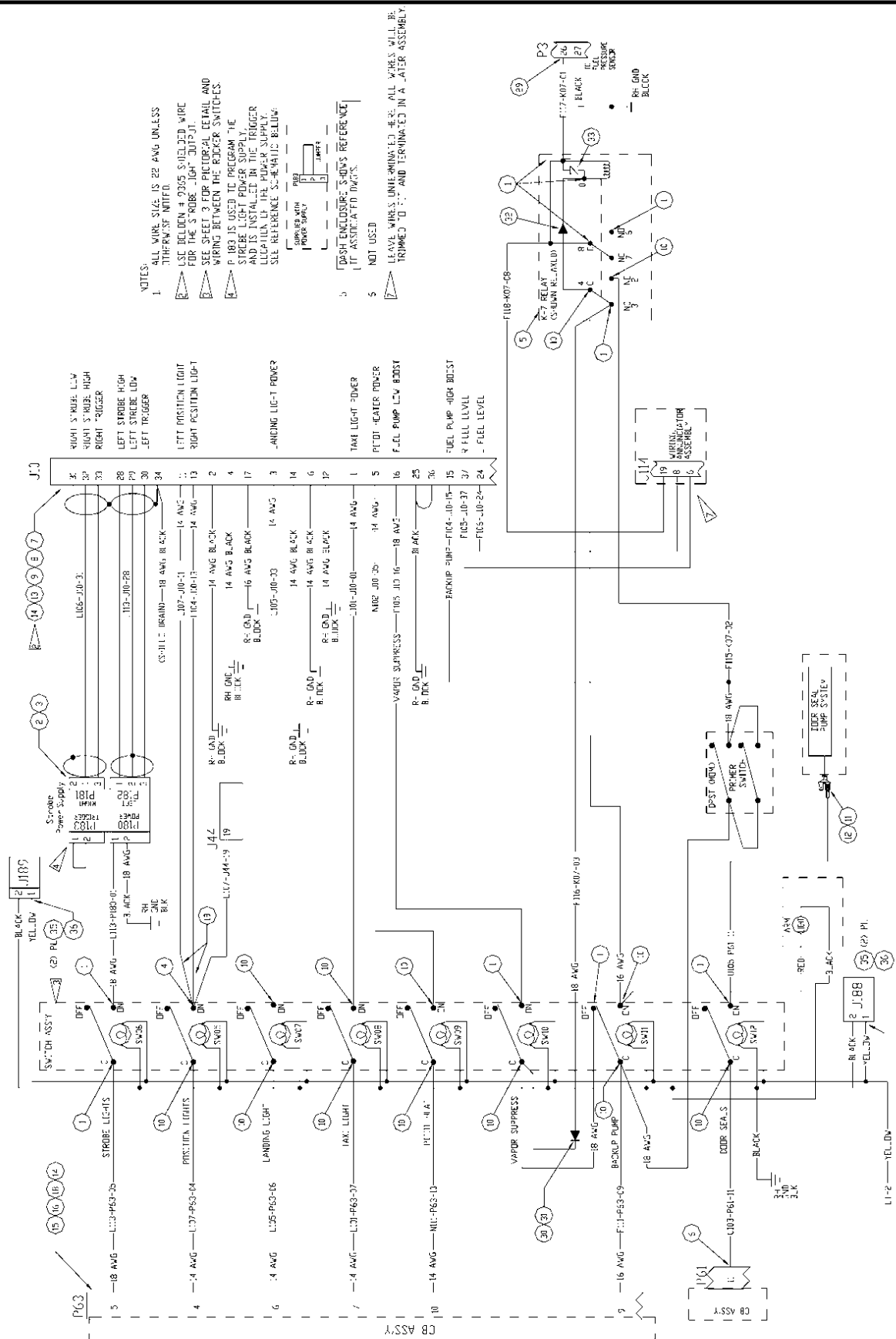
Detail 24 - 4 Circuit Breaker Panel Wiring (4/4)

36	2	770342-1		RECEPTACLE, 2-PIN FREE HANGING, AMP
35	4	794016-1		SOCKET, 24-18 AWG, AMP
34	3	M22759/15-18-C		WIRE, ELEC., MED. WT., 600 V, 18 ga., BLACK
33	1	V227A05		DIODE (METAL OXIDE VARISTOR)
32	1	1N4002		DIODE
31	1	1N1200A		DIODE
30	1	4/29		DIODE MOUNTING KIT, KEYSTONE
29	2	205089-1		PIN, 24-20 AWG Size 20, AMP
28	17	9365 (BE-DEN)		CABLE, 300 V, 1 TRIAD, 18 AWG, (BLK, RED, WHT)
27	44	M22759/15-22-9		WIRE, ELEC., MED. WT., 600 V, 22 ga., WHITE
26	9	M22759/15-22-4		WIRE, ELEC., MED. WT., 600 V, 22 ga., YELLOW
25	20	M22759/15-22-C		WIRE, ELEC., MED. WT., 600 V, 22 ga., BLACK
24	33	M22759/15-18-9		WIRE, ELEC., MED. WT., 600 V, 18 ga., WHITE
23	10	M22759/15-16-9		WIRE, ELEC., MED. WT., 600 V, 16 ga., WHITE
22	6	M22759/16-16-0		WIRE, ELEC., MED. WT., 600 V, 16 ga., BLACK
21	18	M22759/15-14-9		WIRE, ELEC., MED. WT., 600 V, 14 ga., WHITE
20	36	M22759/16-14-0		WIRE, ELEC., MED. WT., 600 V, 14 ga., BLACK
19	2	42844-1		RECEPTACLE, 250 CRYSTAL 14-12, AMP
18	1	206305-1		CONNECTOR, CPC, SIZE 23-3/ PIN, REVERSE SEX, AMP
17				NOT USED
16	4	66361-4		PIN 18-14 AWG, AMP
15	2	66099-4		PIN 18-16 AWG, AMP
14	2	206138-1		BACKSHIELD SIZE P3 CPC, AMP
13	1	206150-1		PLUG, 37 PIN CPC SIZE P3, AMP
12	1	640917-1		RECEPTACLE 37 RED, AMP
11	1	61345-2		ADAPTER, .187 x .020, FASTON
10	13	640905-1		RECEPTACLE, 250 BLUE 16-14, AMP
9	2	66101-4		SOCKET 18-16 AWG, AMP
8	11	66360-4		SOCKET 18-14 AWG, AMP
7	11	66105-4		SOCKET 24-20 AWG, AMP
6	1	66103-4		PIN 24-20 AWG, AMP
5	1	WS2S11D22-12		RELAY, MAGNECRRAFT
4	3	19043-0010 61/65-1		TAB ADAPTER, (2M/F), (ETC/MOLEX, WALDOM ELECTRONICS), ALLIED TAB ADAPTER, 250, DUAL QUICK CONNECT, AMP
3	8	60620-1		PIN 20-14 AWG, AMP
2	3	1-480305-0		PIN HOUSING, 3 PIN, AMP
1	27	640903-1		RECEPTACLE, 250 RED 22-18 AWG, AMP
ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL
PARTS LIST				

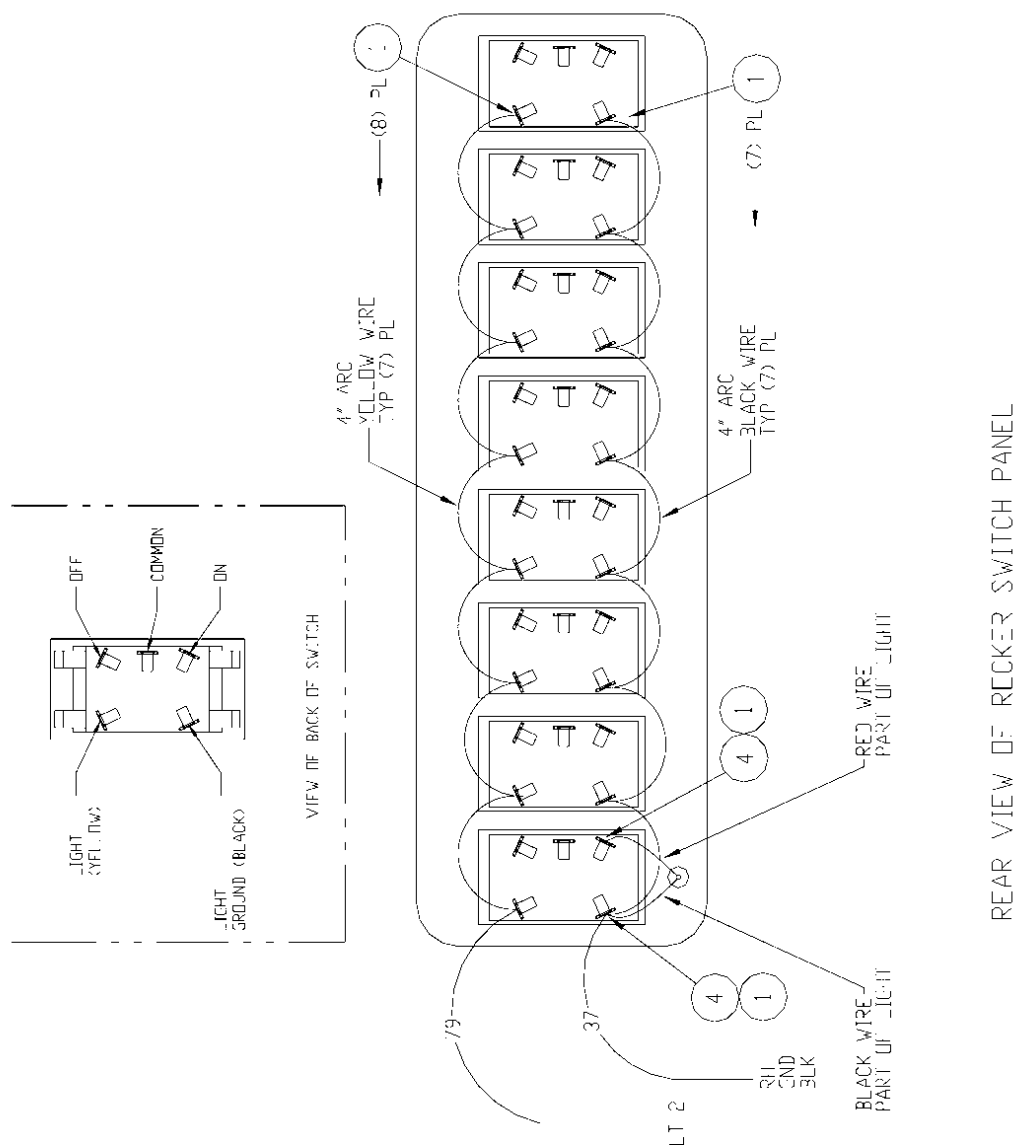
NLIL

 P/N 19043-0010 IS THE PREFERRED PART.

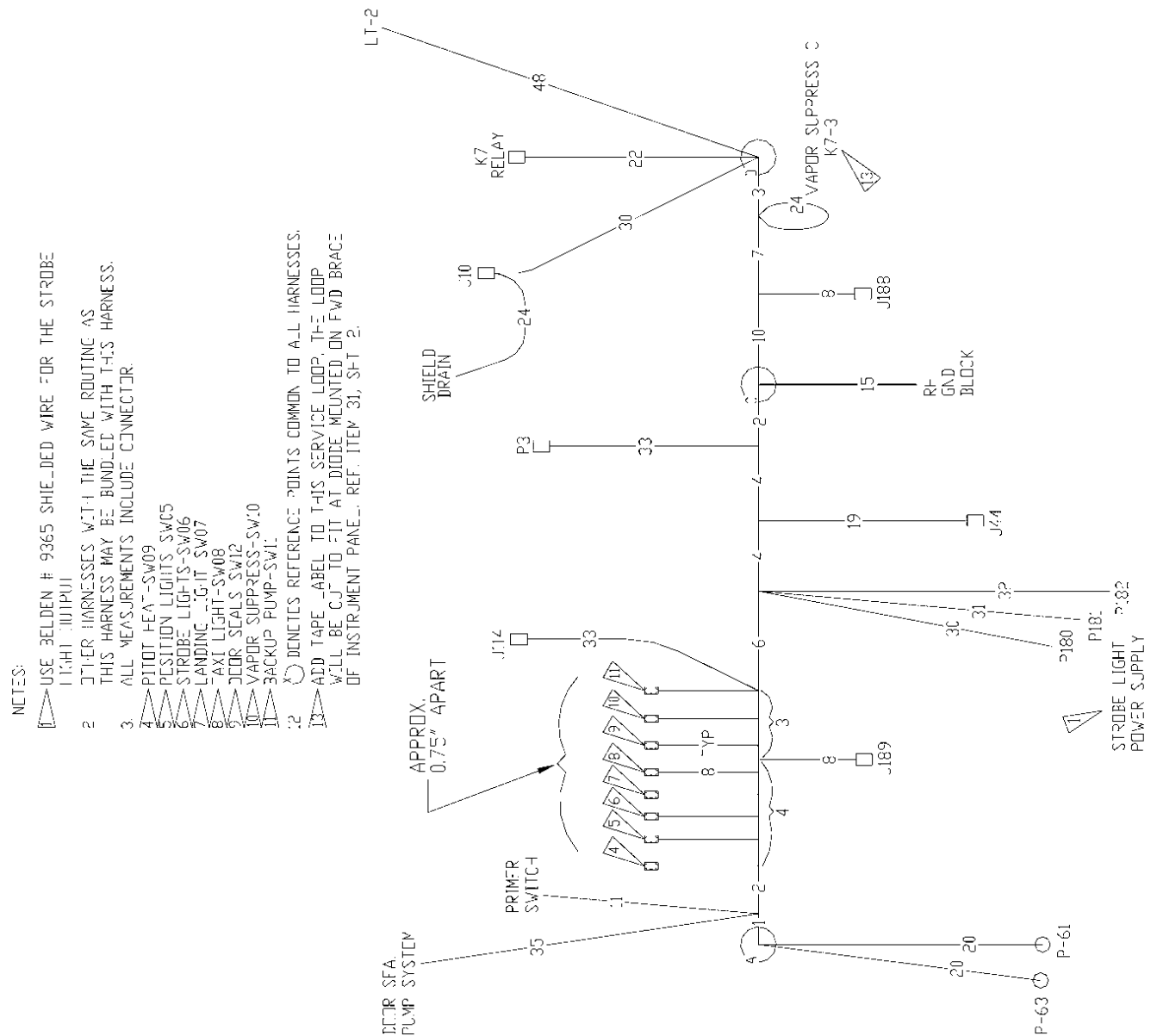
Detail 24 - 5 Wiring to Rocker Switches(LB53511201H) (1/4)



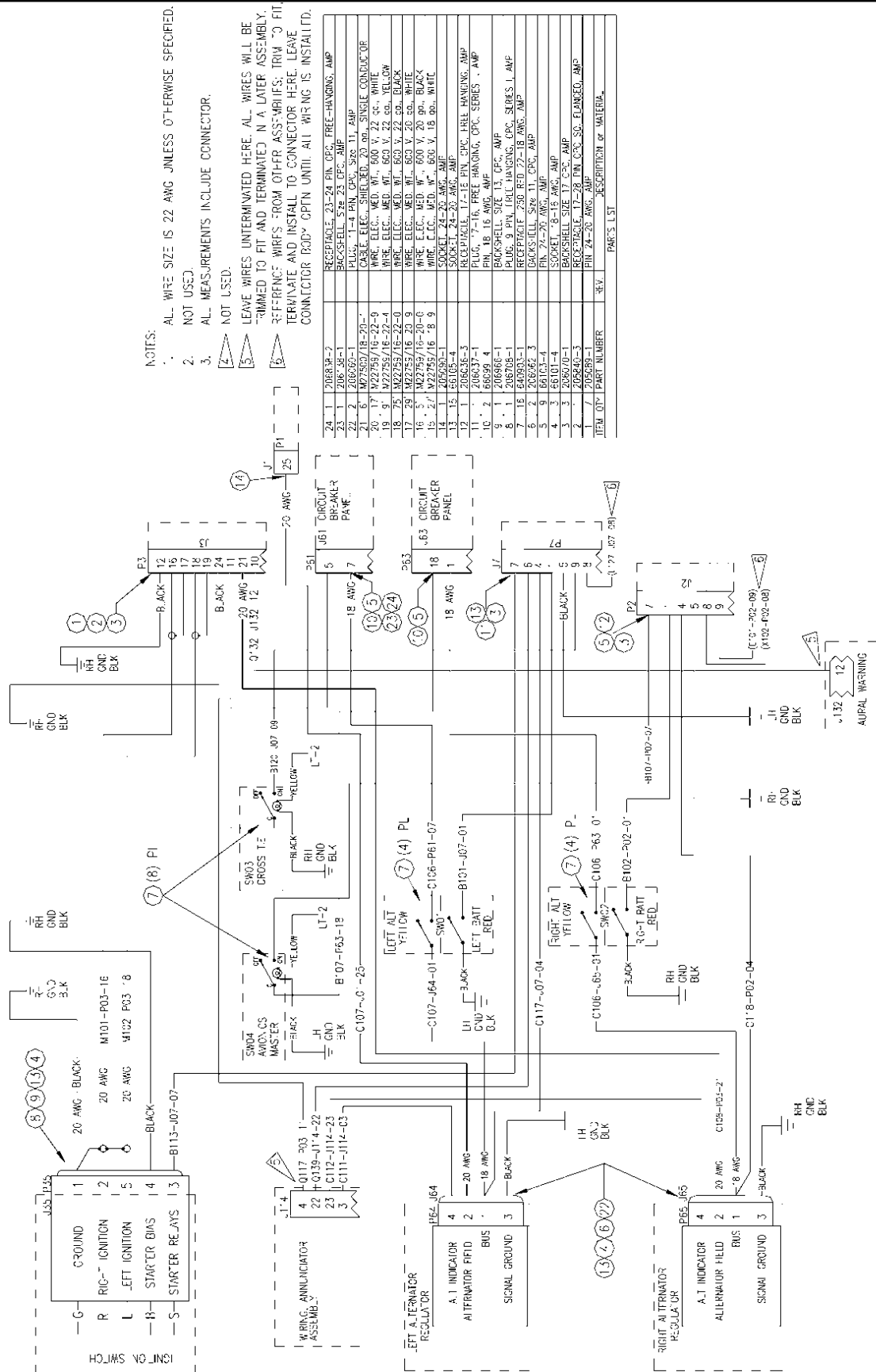
Detail 24 – 5 Wiring to Rocker Switches (2/4)



Detail 24 – 5 Wiring to Rocker Switches (3/4)



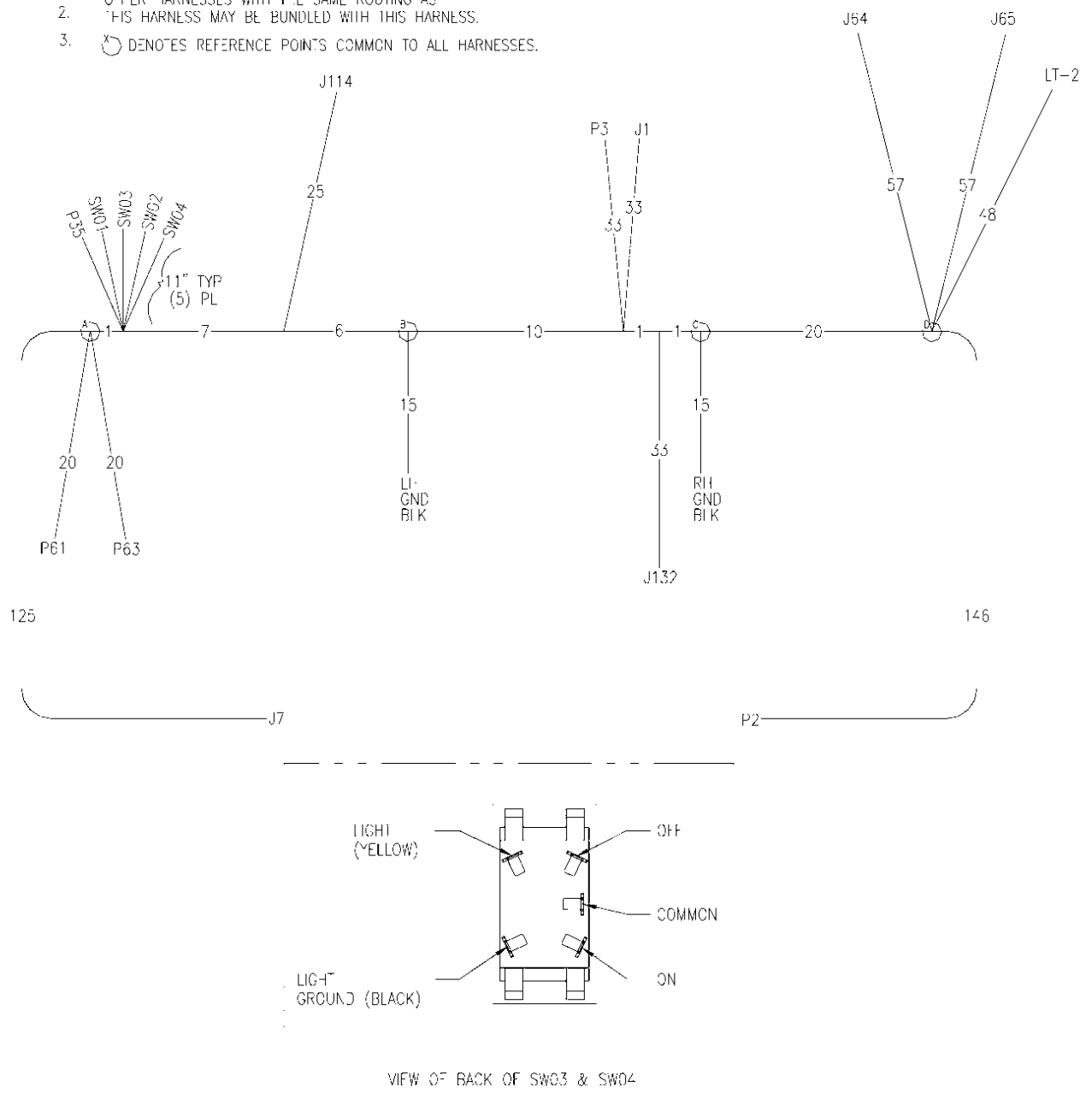
Detail 24 – 5 Wiring to Rocker Switches (4/4)



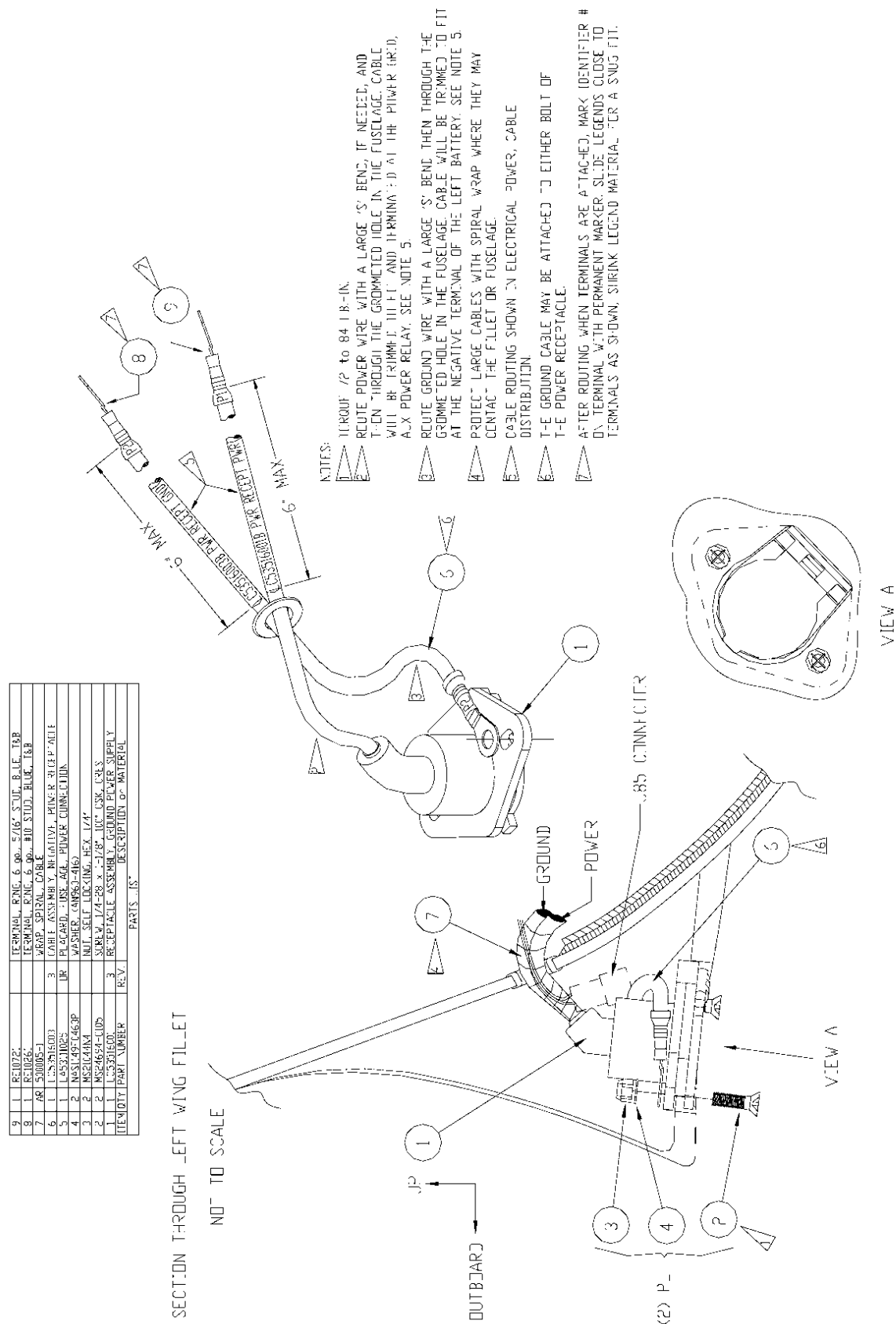
Detail 24 - 6 Master Switch Assembly Wiring (LC53511300C) (1/2)

NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. OTHER HARNESSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED WITH THIS HARNESS.
3. ○ DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES.

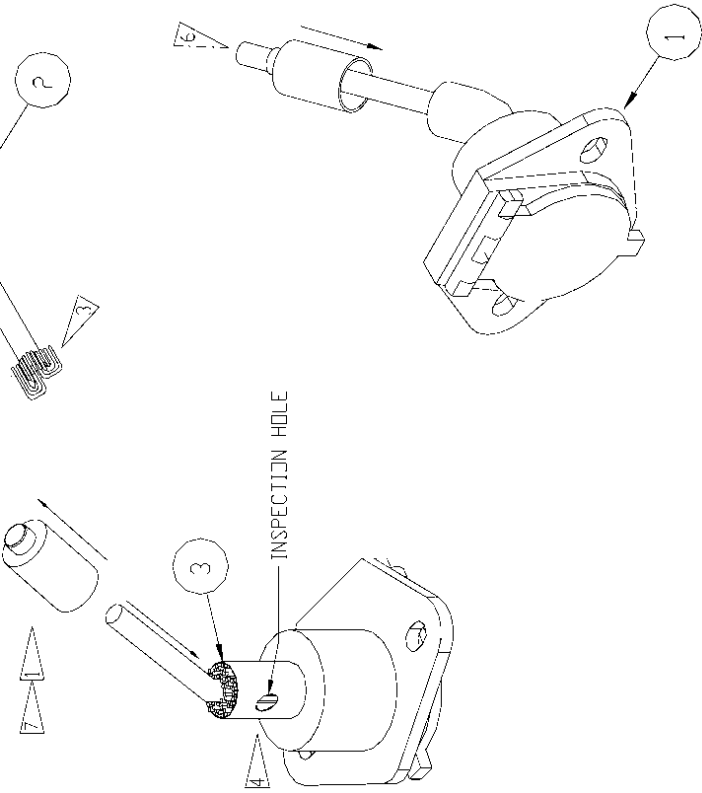
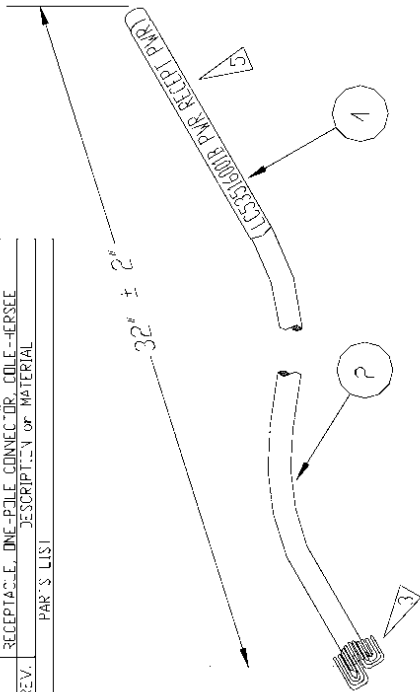


Detail 24 - 6 Master Switch Assembly Wiring (2/2)



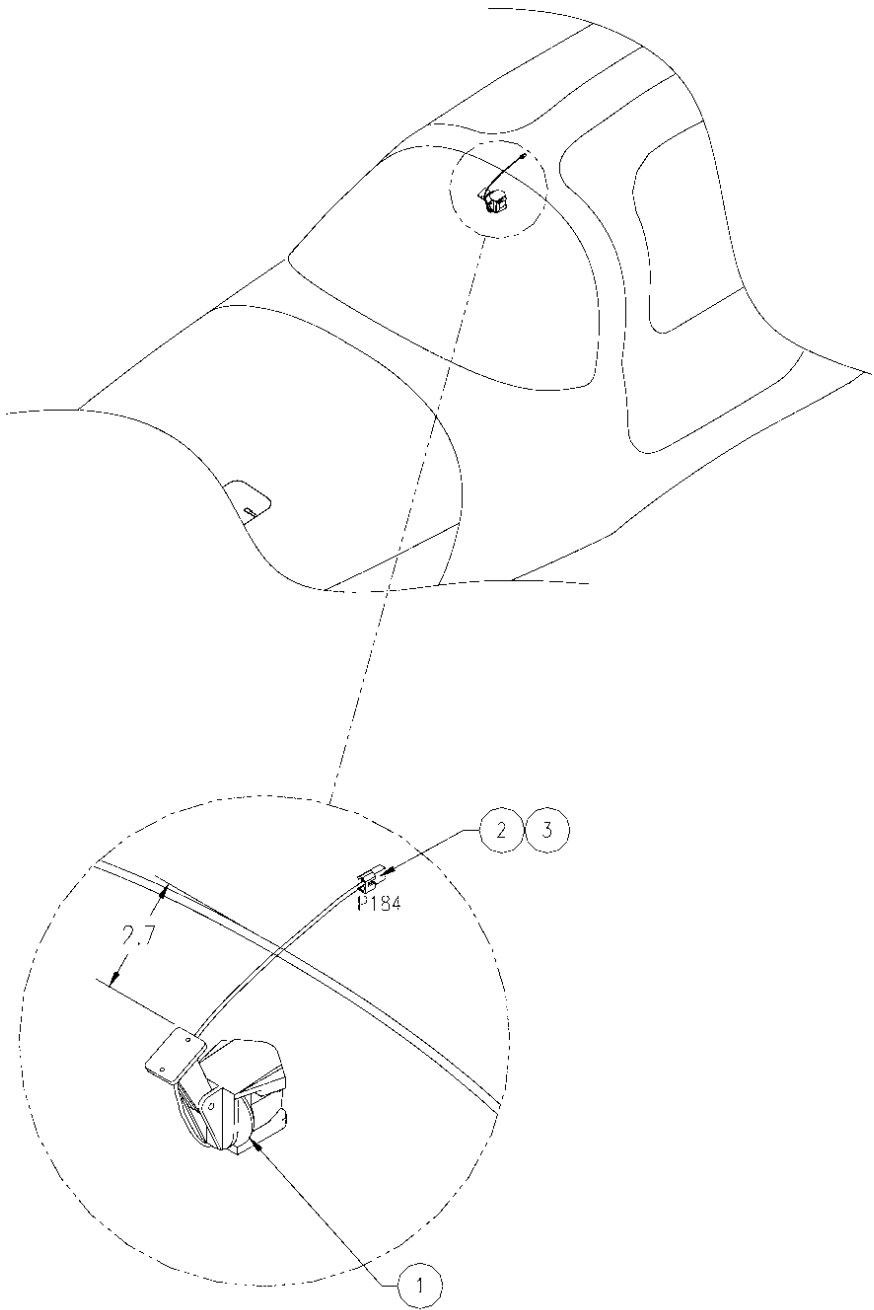
Detail 24 - 7 Ground Power Supply System (LC53516000A1) (1/1)

5	AR	HIX 1	HEAT SHRINK, 1"
4	AR	243-221	SHRINK TUBE, CARTRIDGE, 1/4", YELLOW
		243-220	SHRINK TUBE, CARTRIDGE, 1/4", WHITE
		HIX-1/4	HEAT SHRINK, 1/4"
3	AR	24-6040-0066	SOLDER, E-SIN CORE, 60/30 SNO, RESIST
2	3"	M22759/G 6 9	WIRE, ELEC., MED. WT., 60 V, 6 GA., WHITE
1	1	1041	RECEPTACLE, ONE-POLE CONNECTOR COLE-HERSEE
ITEM QTY		PAR. NUMBER	REV. DESCRIPTION OF MATERIAL
		PAR. 3 LIST	



- NOTES:
1. SLIDE RUBBER BOOT OFF OF SOLDER SOCKET IN REAR OF PLUG BEFORE SOLDERING. AFTER WIRE CONNECTIONS ARE MADE SLIDE BOOT OVER SOCKET, SNUG AGAINST REAR OF PLUG
 2. NOT USED.
 3. STRIP THE WIRE LONG ENOUGH TO DOUBLE BACK ITSELF AND FULLY INSERT INTO THE SOLDER SOCKET. BEND THE WIRE AT THE TOP OF THE SOLDER SOCKET (60° to 90°) BEFORE SOLDERING.
 4. SOLDER WITH HEAVY GAGE SOLDER AND A PROPANE TORCH UNTIL THE INSPECTION HOLE SHOWS GOOD SOLDER FLOW.
 5. IDENTIFY CABLE AT THIS END AS SHOWN USING HEAT SHRINK MATERIAL, MACHINE OR HAND LABELING IS ACCEPTABLE. AFTER CRIMPING, MARK IDENTIFIER NUMBER IN TERMINALS WITH PERMANENT MARKER.
 6. THE END OF WIRE WILL TERMINATE AFTER THE PART IS INSTALLED IN THE AIRCRAFT.
 7. IT IS ACCEPTABLE TO USE 2 LAYERS OF 1" HEAT SHRINK MATERIAL IN PLACE OF RUBBER BOOT.
 8. IF LEGEND NEEDS REPLACEMENT A FLAG TIE IS AN ACCEPTABLE SUBSTITUTE IN A FINISHED CABLE.

Detail 24 - 8 Ground Power Supply System Receptacle Assembly (LC53516001B) (1/1)



3	2	794017-	PIN, 24-18 AWG, AMP
2	1	776340-	PLUG HOUSING, 2-PIN FREE HANGING, AMP
1	1	NV20-12V	COMPASS, WINDSHIELD MOUNT
ITEM QTY		PART NUMBER	
		DESCRIPTION or MATERIAL	
PARTS LIST			

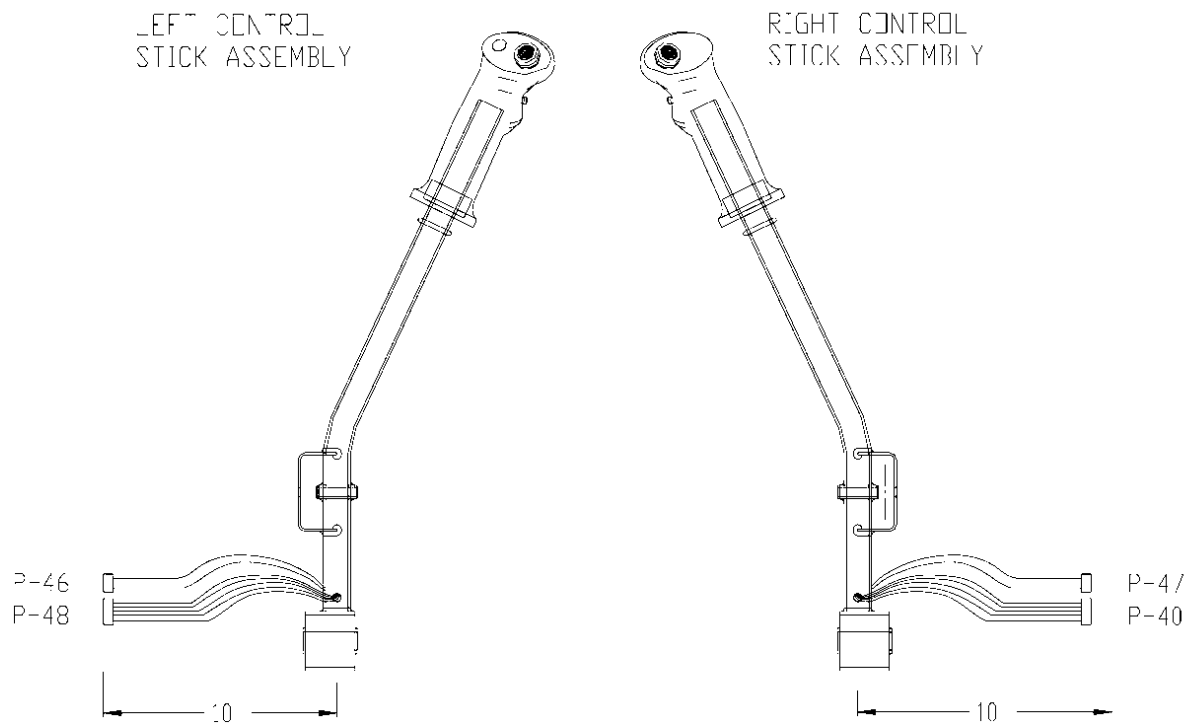
Detail 25 - 1 Compass Attachment (LB53255400-2) (1/1)

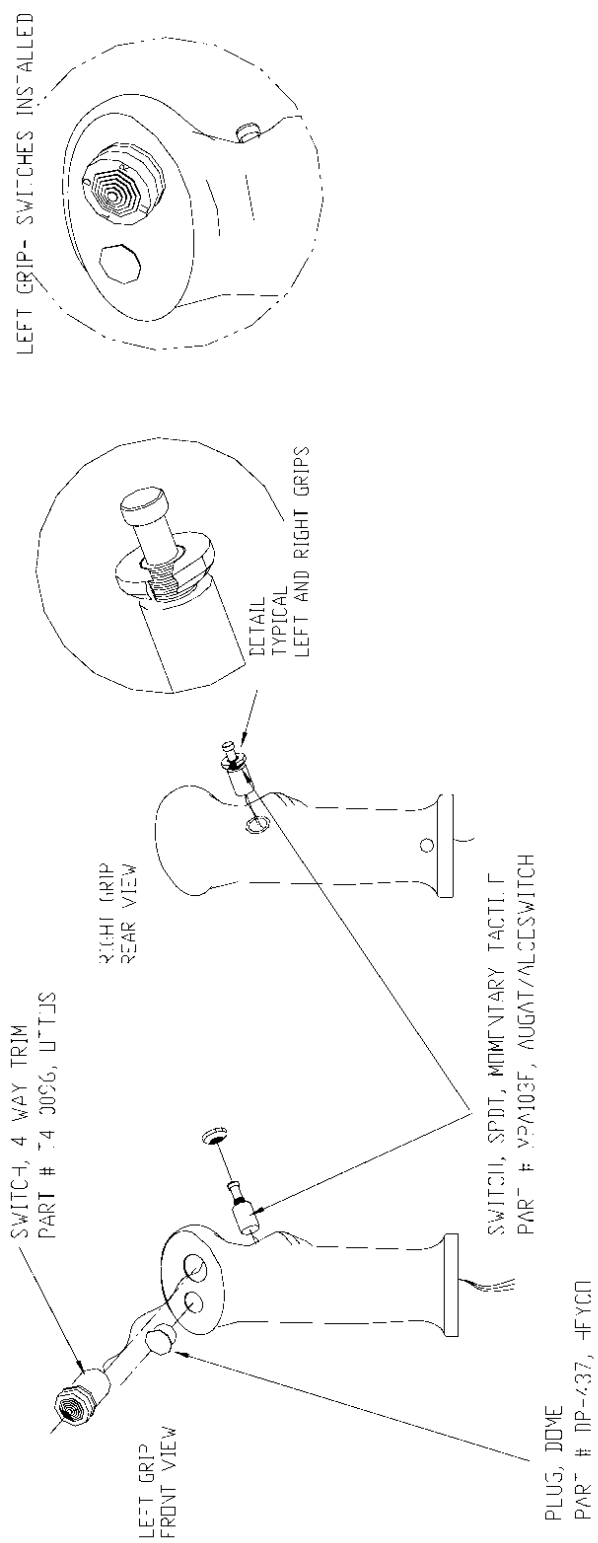


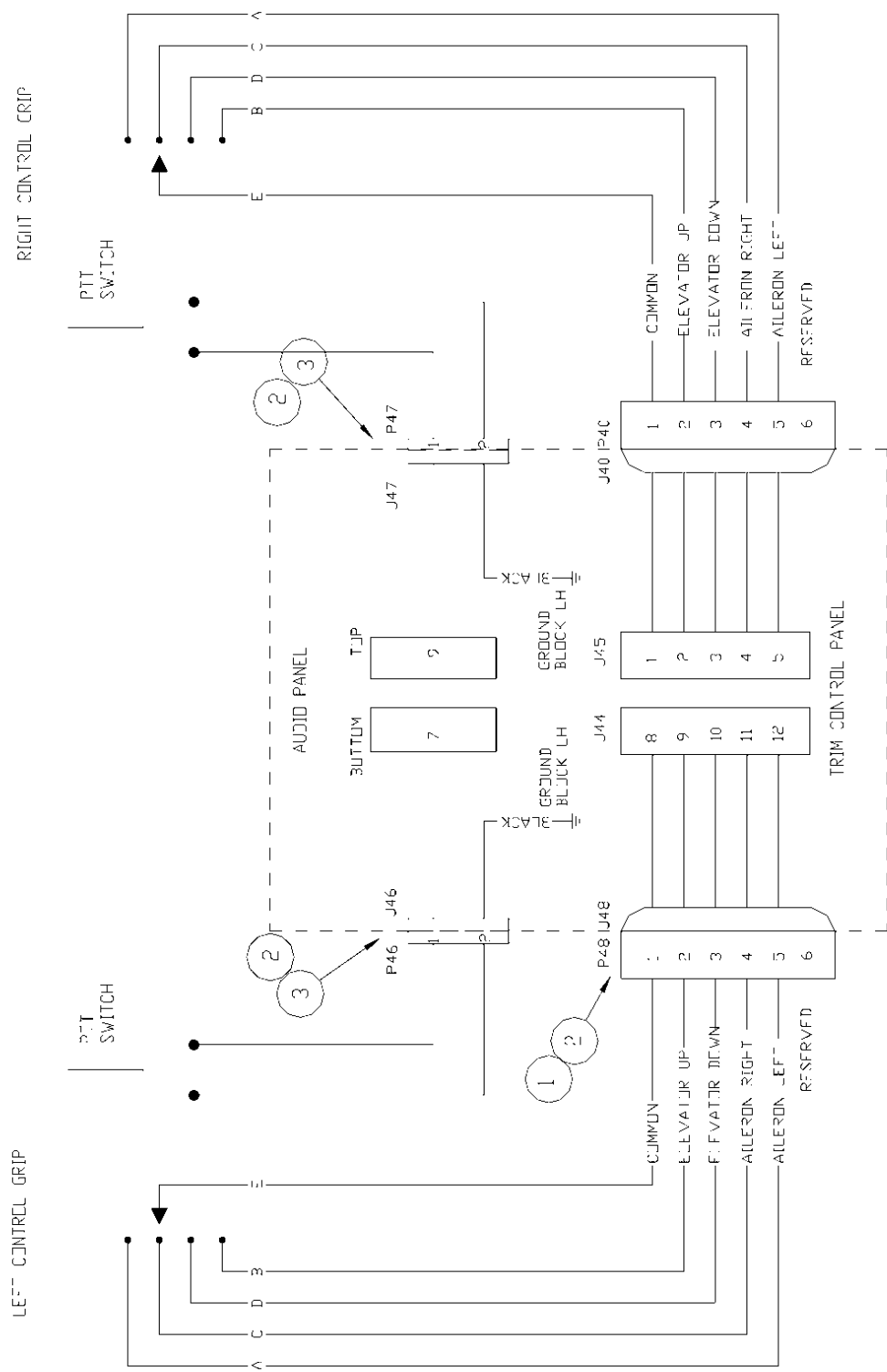
1. TOLERANCE ON ALL DIMENSIONS EXCEPT WIRE LENGTH IS $\pm .25^\circ$.
2. ALL WIRE LENGTHS INCLUDE CONNECTION.
3.  PLUG TUBE END WITH ADHESIVE, ITEM 3, AFTER ASSEMBLY.

7	1"	M22759/15-22-0	WIRE, E.LECTRIC, MED. WT. 500 V. 22 ga., 3LAC
5	2	77C33-1	PLUG HOUSING, 3-PR FREE -HANGING CAMP
6	2	794C17	PIN 24 .8 AVXAN ²
4	2C	T-103-14-W	FILTER 300T.BUSHP AVIATION
8	AR	RTV 5818	ADHESIVE
2	2C	683	LAMP
3	2C	200-0845-100	TUBING, SUPERTHANE ESTER 1/4 ID x 3/8 OD LARCO PLASTICS
ITEM	QTY	PART NUMBER	DESCRIPTION OR MATERIAL
			PARTS LIST

Detail 25 - 2 Glare Shield Lighting Tube Assembly (LB53254015-) (1/1)

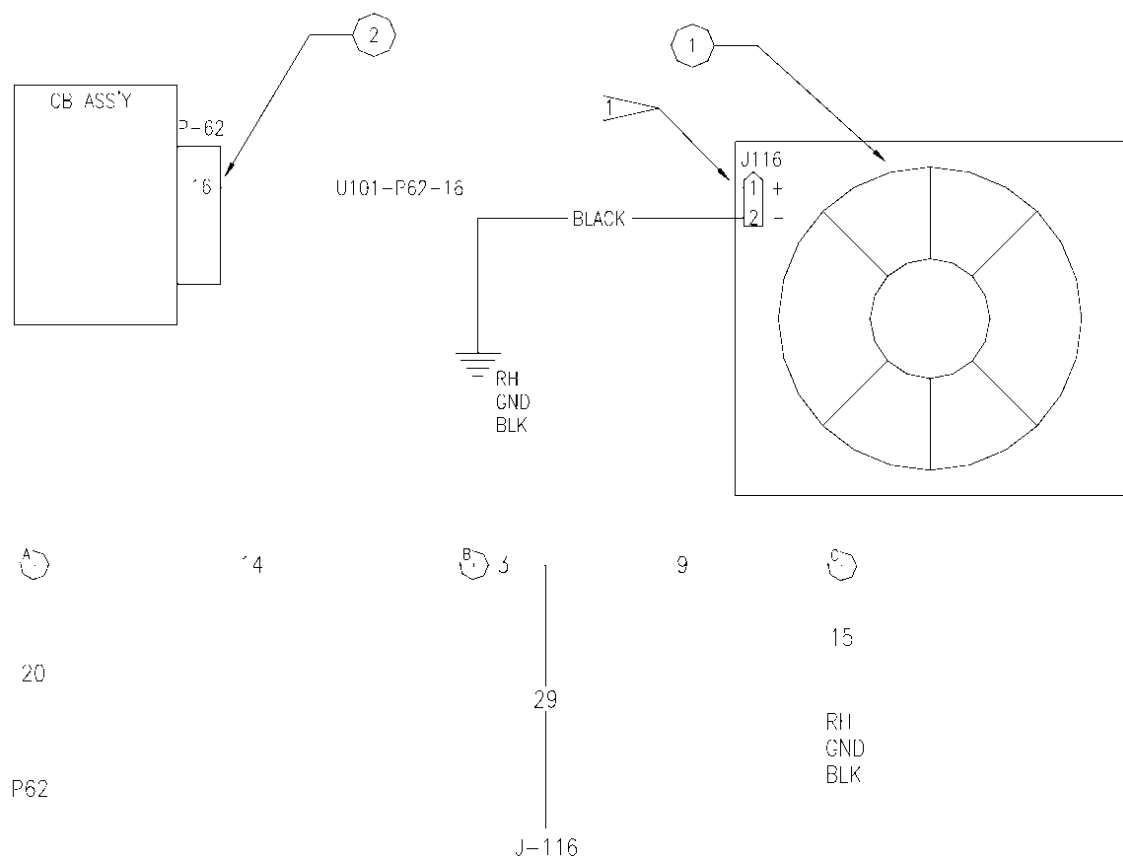
**Detail 25 - 3 Control Stick Assembly (LA53271000F1) (1/3)**

**Detail 25-3 Control Stick Assembly (2/3)**



ITEM	PART NUMBER	DESCRIPTION OR MATERIAL	REFERENCE
3	770340-1	PLUG HOUSING, 2 PIN FREE HANGING	AMP
2	/9401/-1	PIN, 24-20 AWG	AMP
1	/70355-1	PLUG HOUSING, 6 PIN FREE HANGING	AMP

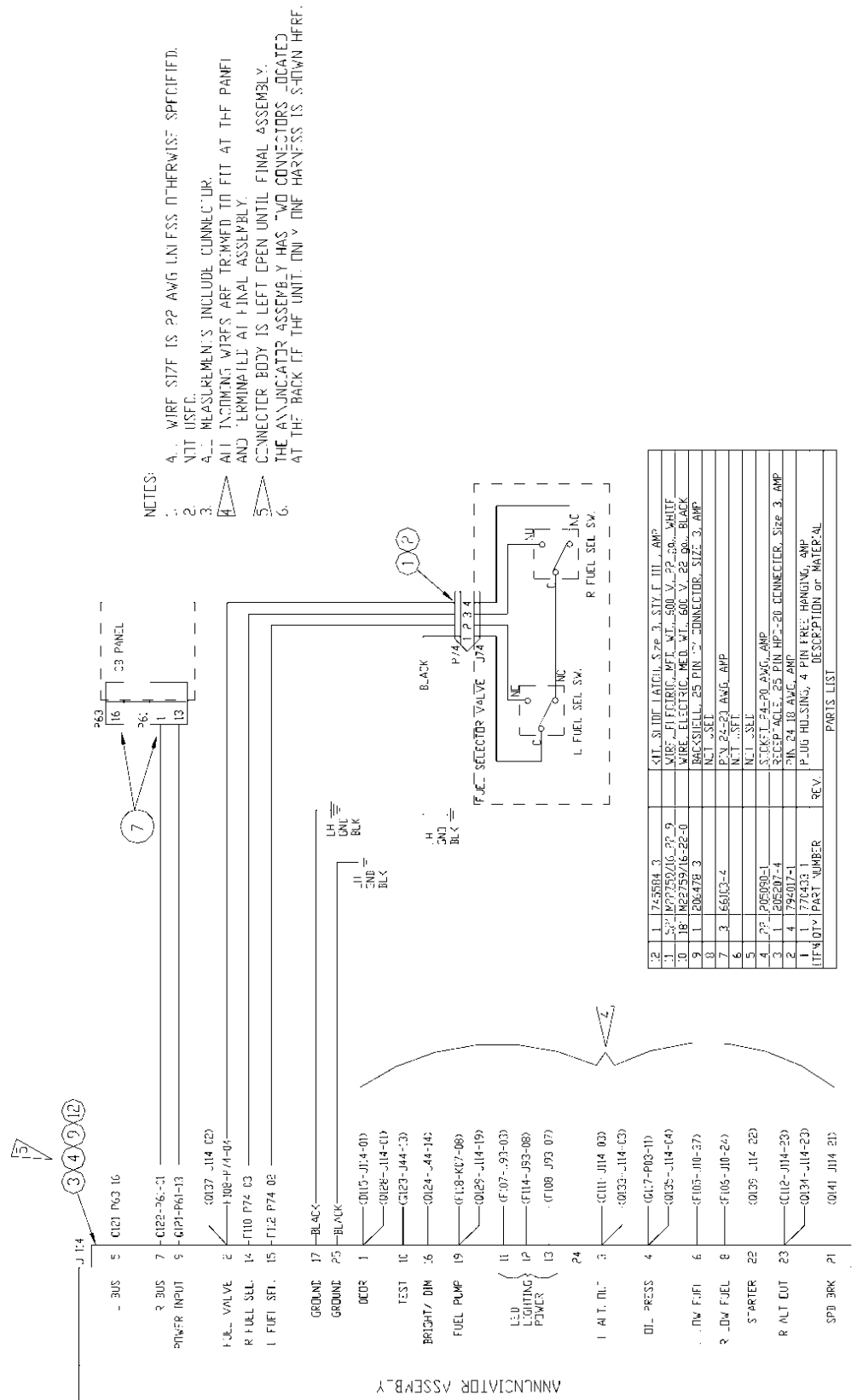
Detail 25-3 Control Stick Assembly (3/3)



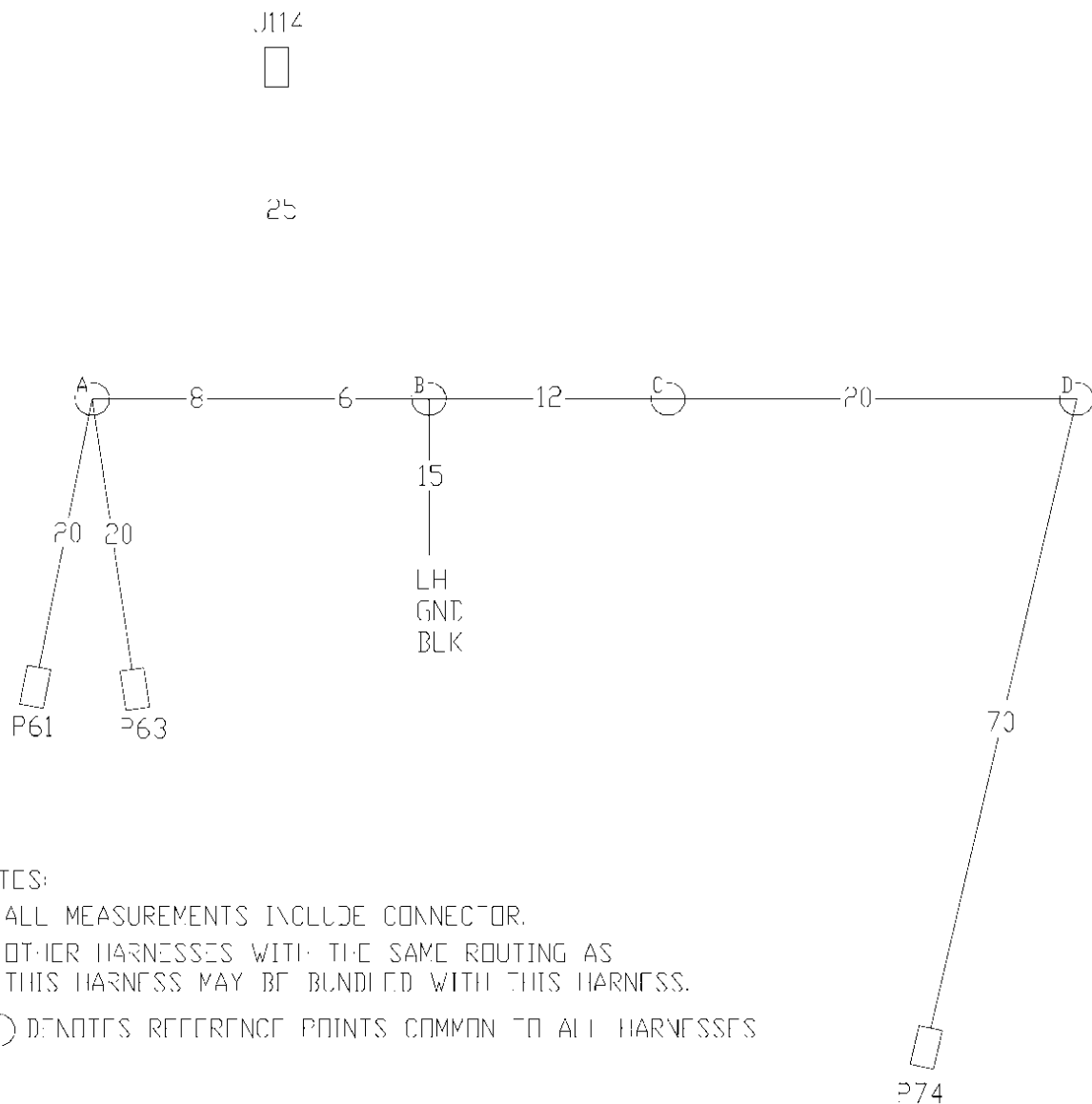
- NOTES:
- 1. USE AMP CONNECTOR AND TERMINATIONS SUPPLIED WITH THE AVIONICS FAN.
 - 2. NOT USED.
 - 3. ALL MEASUREMENTS INCLUDE CONNECTOR.
 - 4. OTHER HARNESS WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED WITH THIS HARNESS.
 - 5. X DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES.

2	1	66103-4	PIN, 24-20 AWG, AMP
1	1	FN-200	FAN, AVIONICS, MULTI-POR, 13C.L
REV	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

Detail 25 - 4 Avionics Fan Wiring (LB53514700A1) (1/1)



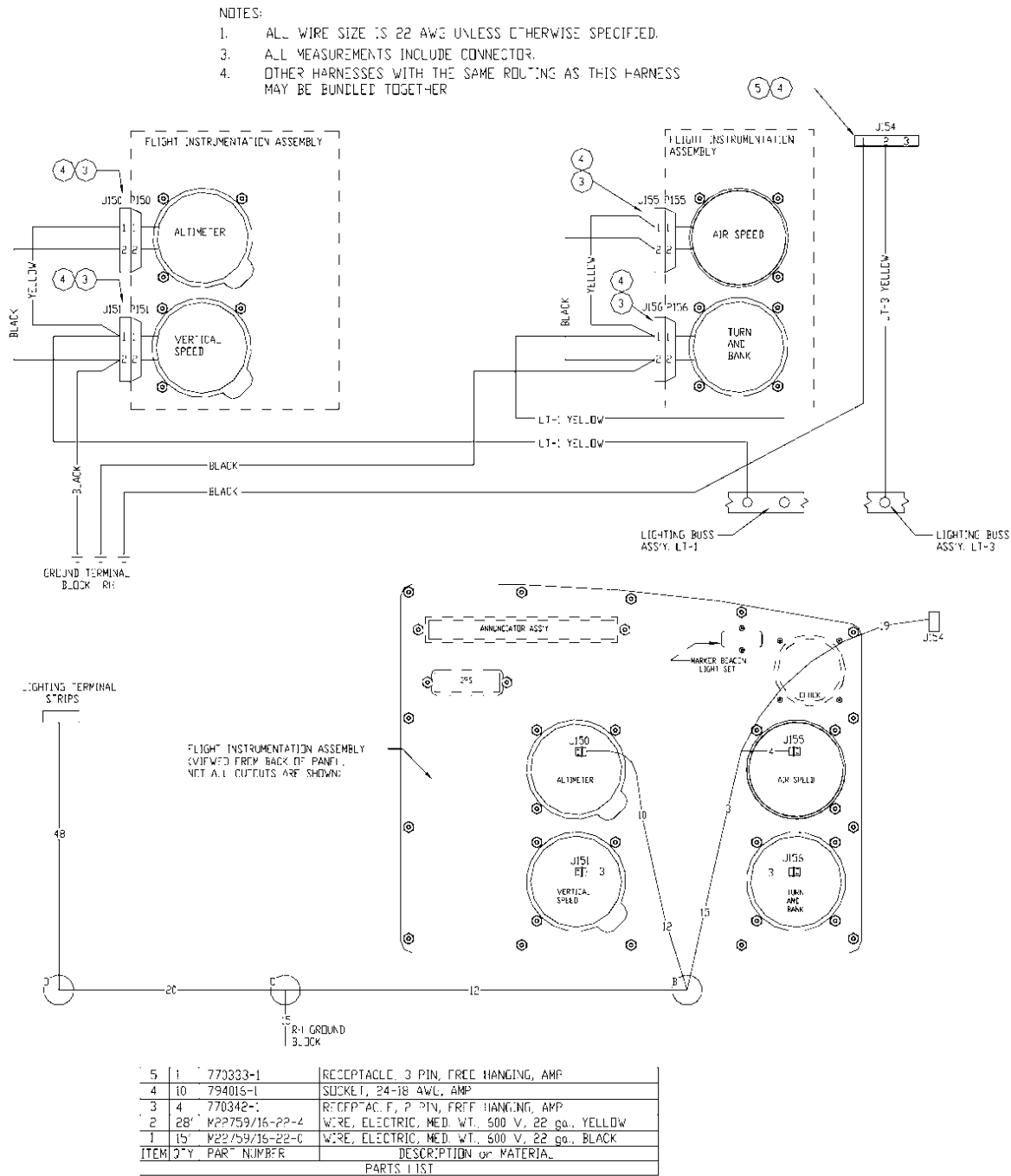
Detail 25 - 5 Annunciator Assembly Wiring (LC53514300B1) (1/2)



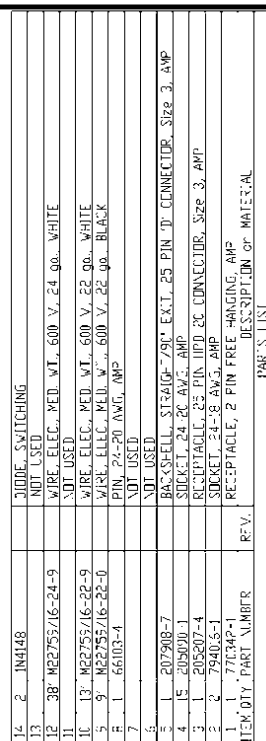
NOTES:

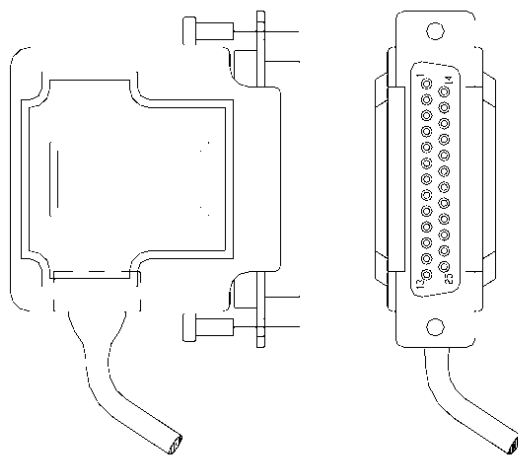
1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. OTHER HARNESSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED WITH THIS HARNESS.
3. X DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES

Detail 25 - 5 Annunciator Assembly Wiring (2/2)



Detail 25 - 6 Wiring for Flight Instrument Lighting (LB53514803B) (1/1)

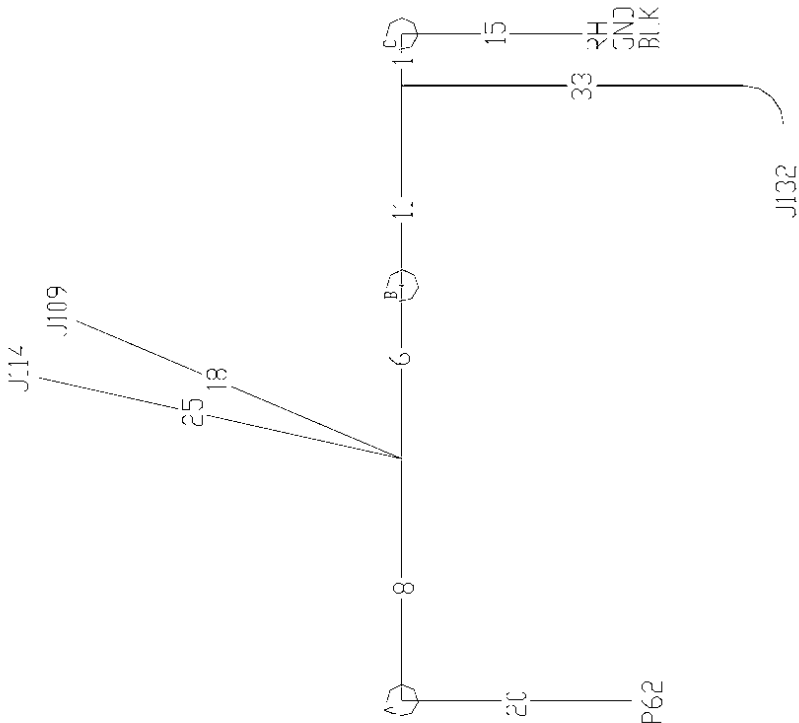




DETAIL A-BACKSHELL ASSEMBLY

NOTES:

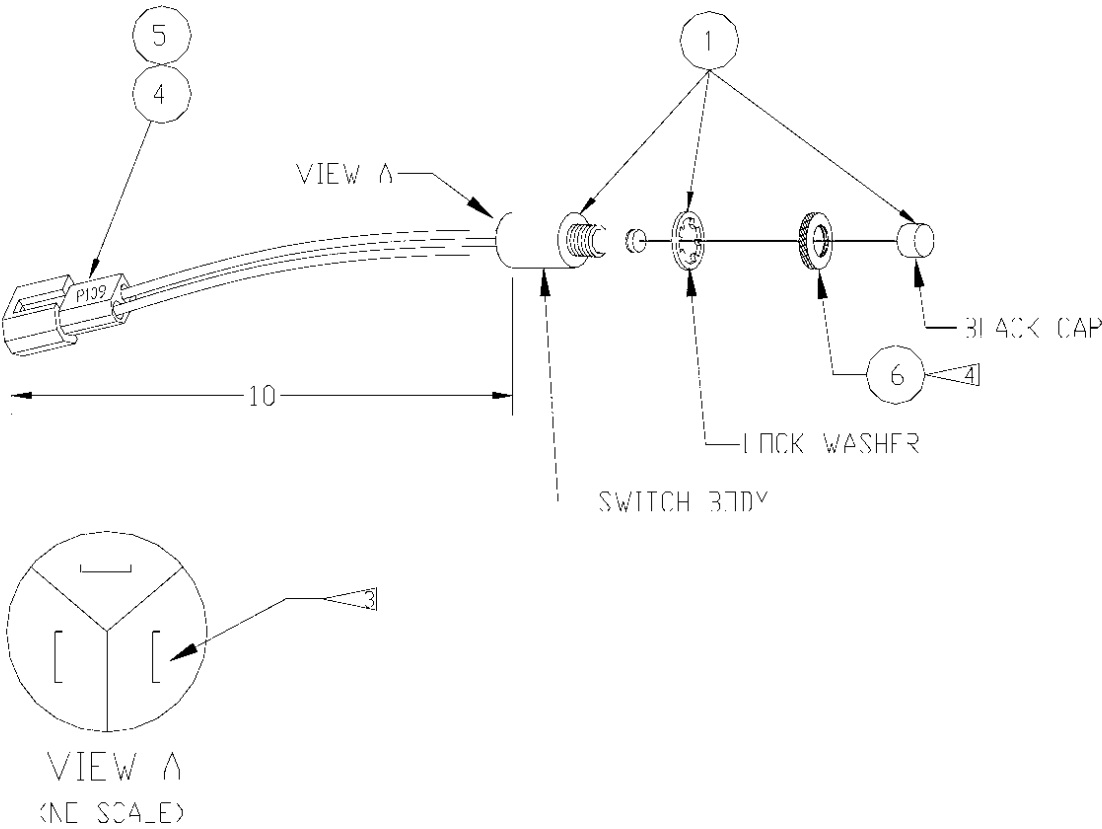
- 1. ALL MEASUREMENTS INCLUDE CONNECTOR.
- 2. Ø DENOTES REFERENCE PLUN'S CUMMIN' IU A-- HARNESSLS.



Detail 25 - 7 Aural Warning System Wiring (2/2)

NOTES:

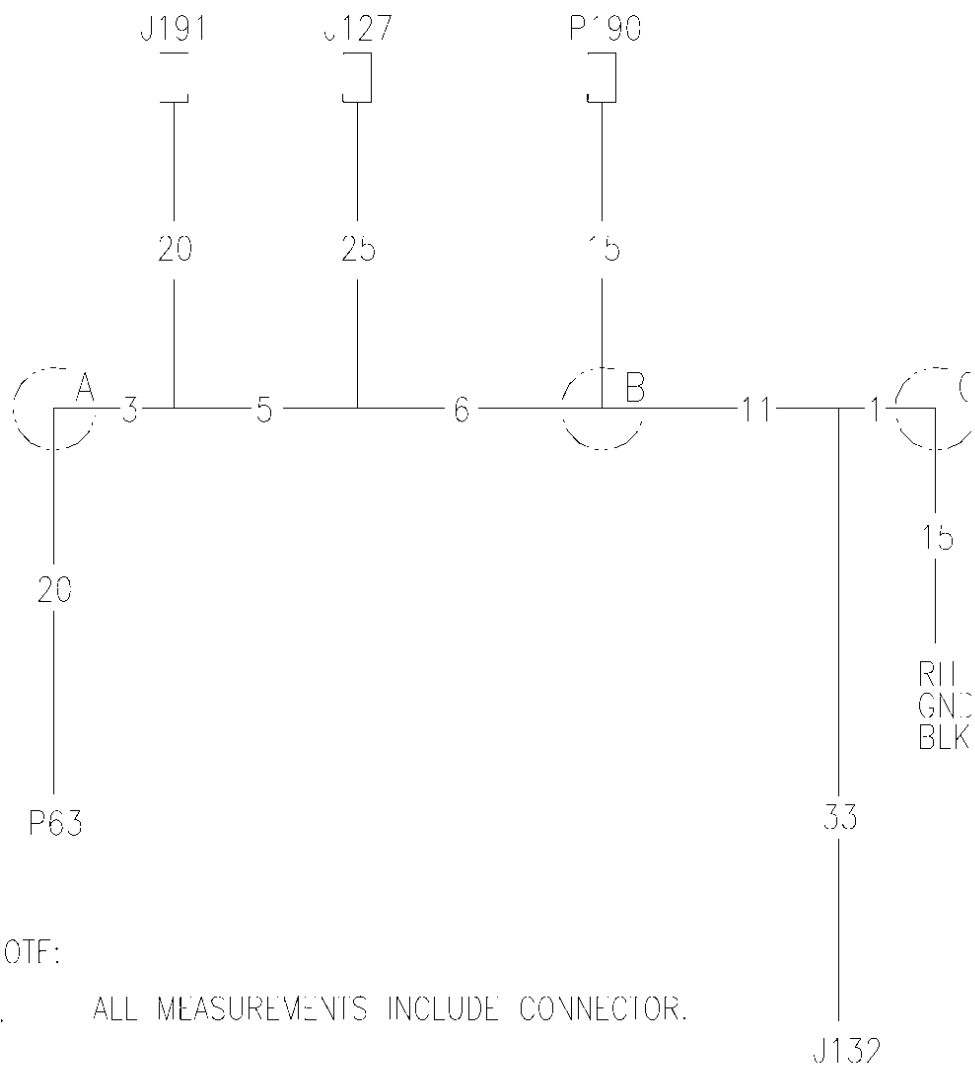
- 1. NOT USED.
- 2. ALL MEASUREMENTS INCLUDE CONNECTOR.
- 3. THIS POST IS NOT USED IN THIS ASSEMBLY. CUT OFF TO AVOID CONFUSION AT INSTALLATION.
- 4. DISCARD THE DRESS NUT SUPPLIED WITH ITEM 1 AND REPLACE WITH ITEM 6.



ITEM	QTY	PART NUMBER	REV.	DESCRIPTION or MATERIAL
6	1	143/628-7		NUT, KNURED, 1/4-40, TYPED
5	1	77C34C-1		PLUG HOUSING, 2-PIN, FREE HANGING, AMP
4	2	794017-1		PIN, 24-18 AWG, AMP
3	2	M22759-16-22-9		WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., WHITE
2	1	MPA103F		NOT USED
1	1	MPA103F		SWITCH, SPDT, MOMENTARY TACTILE, AUGAT/ACOSWITCH

PARTS LIST

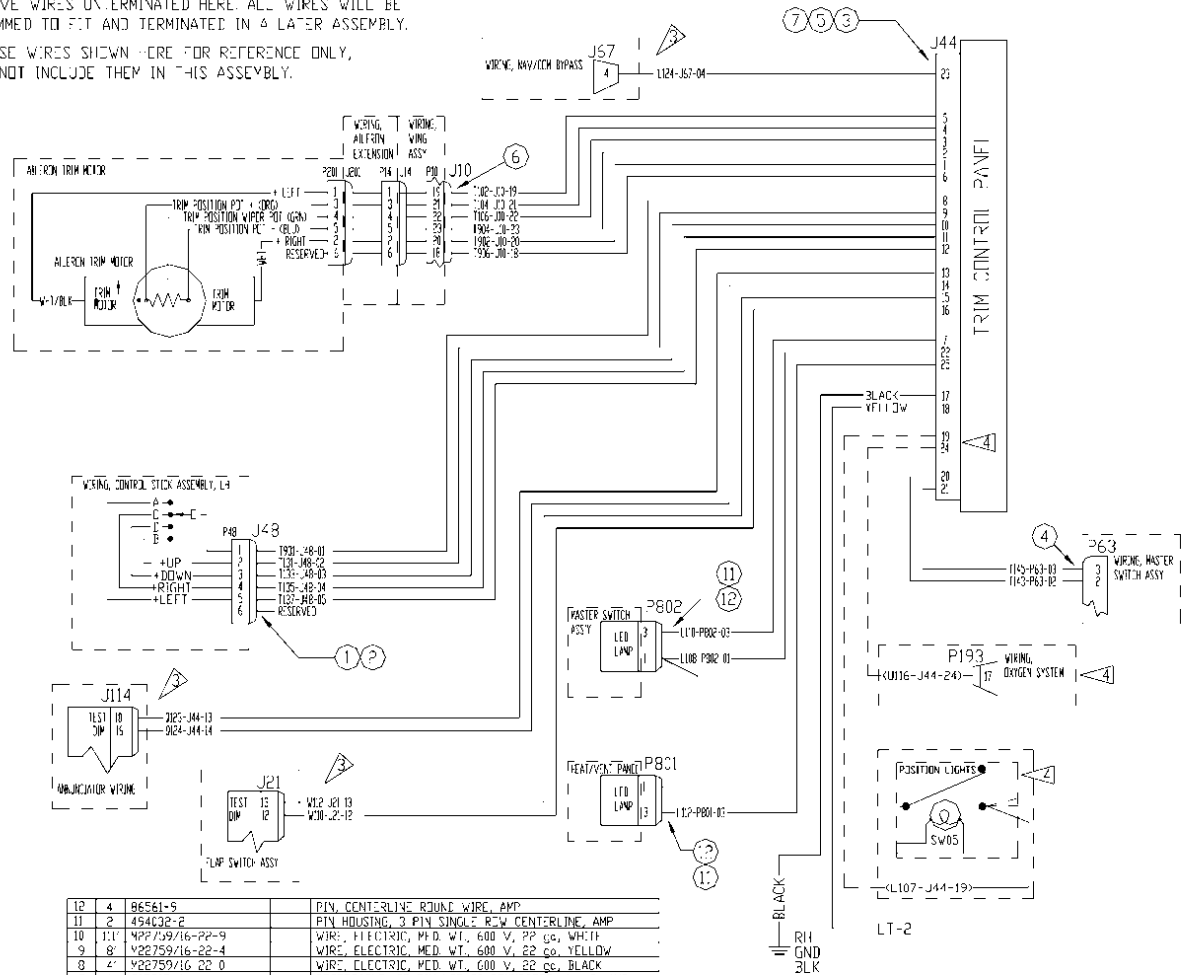
Detail 25 - 8 Aural Warning System Switch Assembly (LA53344203-4) (1/1)

**Detail 25 - 9 Carbon Monoxide Detector Wiring (2/2)**

- End of Chapter -

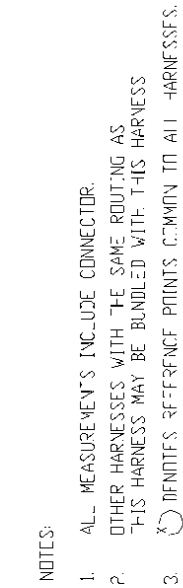
NOTES:

1. NOT USED.
2. POSITIVE VOLTAGE DETERMINES MOVEMENT DIRECTION AS FOLLOWS:
 - A. AILERON, ROD EXTENDS, LEFT BANK
 - B. ELEVATOR, ROD EXTENDS, NOSE DOWN
3. LEAVE WIRES UNTERMINATED HERE. ALL WIRES WILL BE TRIMMED TO FIT AND TERMINATED IN A LATER ASSEMBLY.
4. THESE WIRES SHOWN HERE FOR REFERENCE ONLY, DO NOT INCLUDE THEM IN THIS ASSEMBLY.



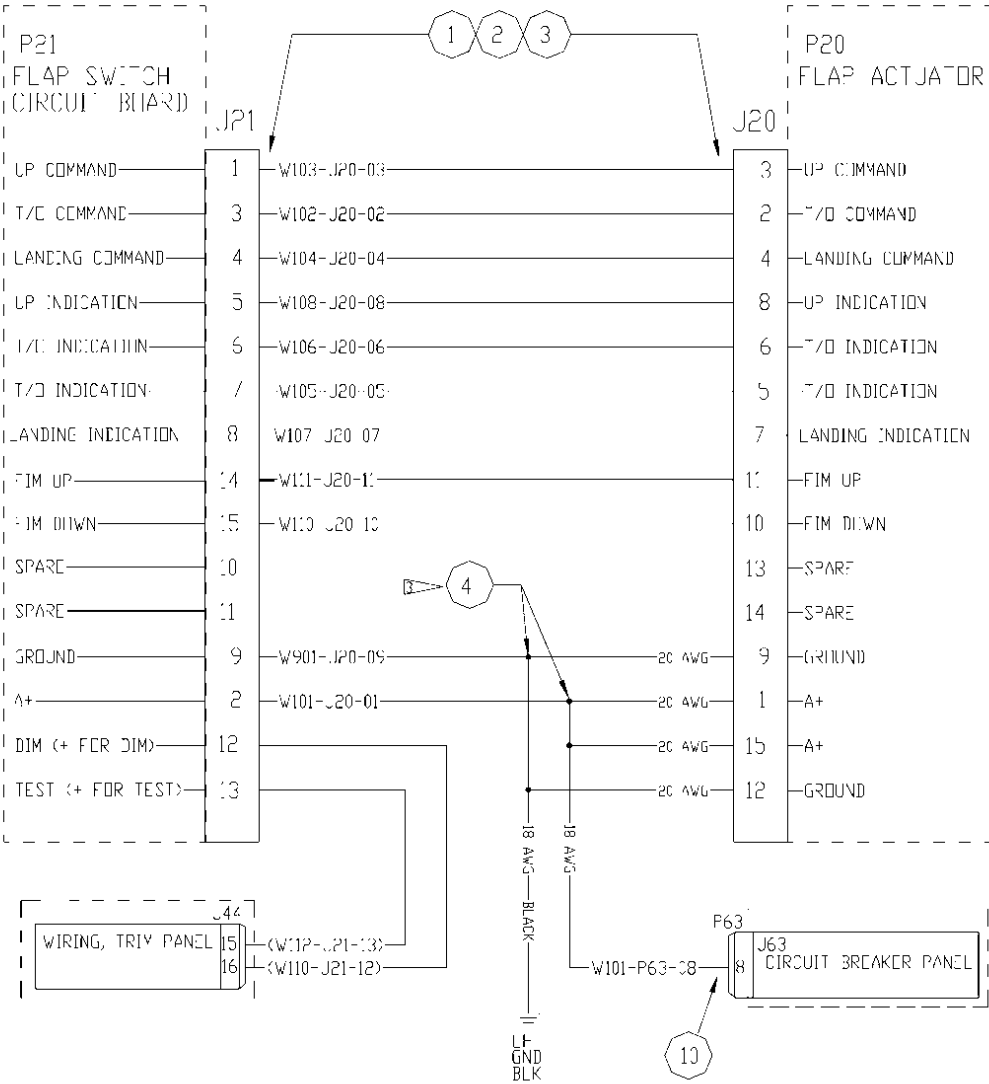
12	4	86561-5	PIN, CENTERLINE BOUNE WIRE, AMP
11	2	454032-2	PIN HOUSING, 3 PIN SINGLE R/W CENTERLINE, AMP
10	11	4PP139/16-22-9	WIRE, FIBERGLASS, 16 D. WT., 600 V, PP (G), WHITE
9	8	422759/16-22-4	WIRE, ELECTRIC, MED. WT., 600 V, 22 GA, YELLOW
8	4	422759/16-22-0	WIRE, ELECTRIC, MED. WT., 600 V, 22 GA, BLACK
7	1	PCSP07-4	RECEPTACLE, 25 PIN HDP-20 CONNECTOR size 3, AMP
6	6	56125-4	SOCKET, 24-26 AWG, AMP
5	1	206478-3	BACKSHELL, D CONNECTOR size 3, AMP
4	2	66133-4	PIN, 24-20 AWG, AMP
3	23	20505C-1	SOCKET, 24-20 AWG, AMP
2	5	754016-1	SOCKET, 24-18 AWG, AMP
1	1	770356-1	RECEPTACLE, 6 PIN FREE HANGING, AMP
ITEM	QTY	PART NUMBER	REV. DESCRIPTION OF MATERIAL

Detail 27 - 1 Trim System Wiring, J44 Connector (LC53313001A) (1/2)



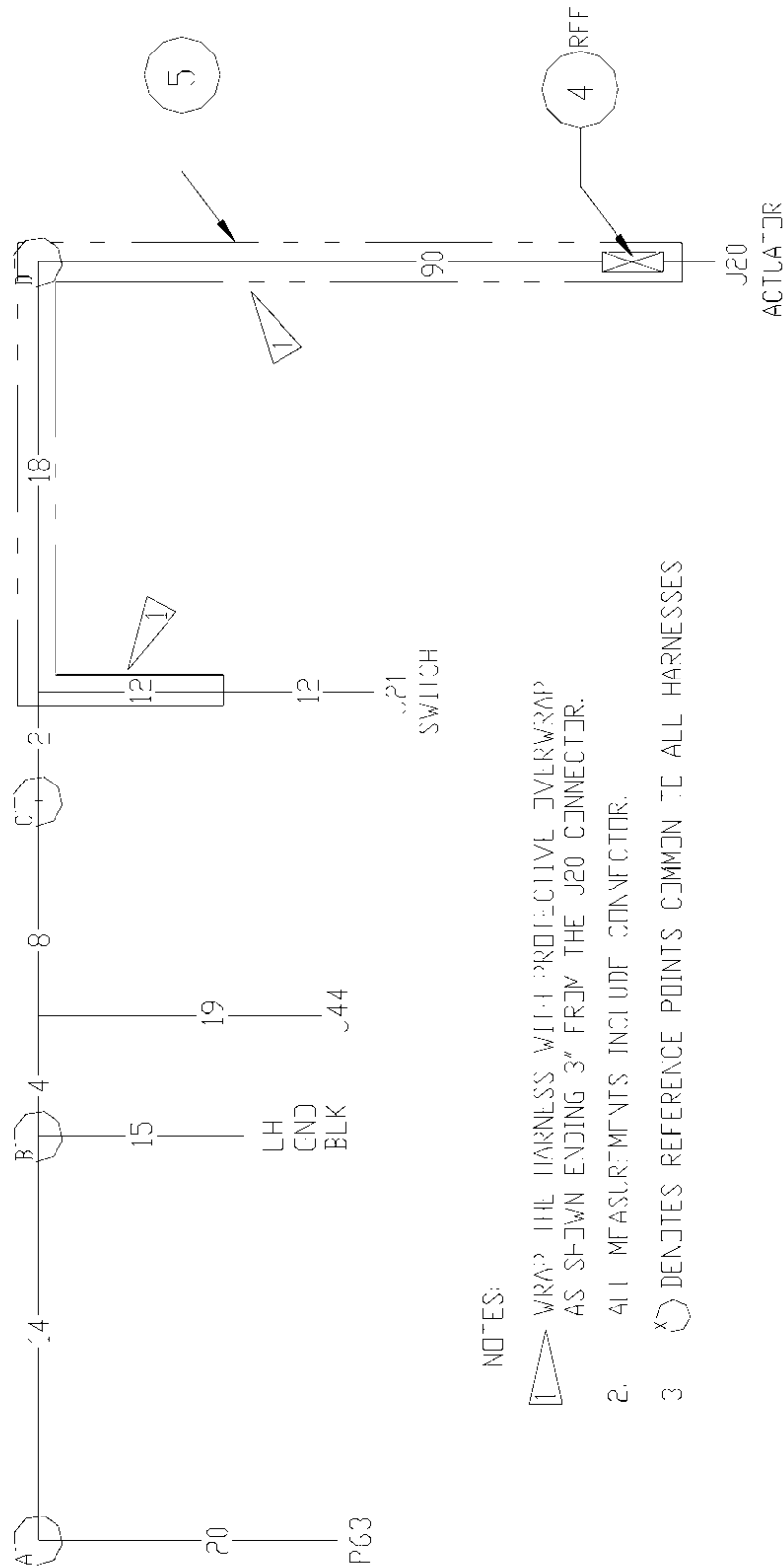
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- NOTES:
- 1. NOT USED.
 - 2. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE NOTED.
 - 3. SPlice THE FLAP POWER AND GROUND #20 AWG WIRES TOGETHER CLOSE TO THE ACTUATOR CONNECTOR, INSURE THE SPLICES ARE STAGGERED; RUN THE #18 AWG POWER AND GROUND IN THE SAME BUNDLE UNTIL THEY BREAK OUT OF THE HARNESS CLOSE TO THE SWITCH.



10	56099-4	PIN, 18-16 AWG, AMP
9		NCT JSEF
8		NCT JSED
7		NCT JSED
6		NCT JSED
5	AR 655C00352 56760C3837	5/16" ROUND T - 2000 PROTECTIVE WIRE WRAP, BENTLEY -ARRIS 5/16" ROUND T 2000X PROTECTIVE OVERWRAP
4	2 320562	SPLICE, AMP
3	26 235090-1	SOCKET 24-20 AWG, AMP
2	2 235205-5	RECEPTACLE, 15 PIN FCP-23 CONNECTOR SIZE 2, AMP
1	2 236478-2	BACKSHELL, 15 CONNECTOR SIZE 2, AMP
ITEM QTY PART NUMBER		DESCRIPTION OR MATERIAL
PARTS LIST		

Detail 27 - 2 Flap Panel Wiring Assembly (LA53313003D1) (1/2)



- NOTES:
- 1. WRAP THE HARNESS WITH PROTECTIVE OVERWRAP AS SHOWN ENDING 3" FROM THE J20 CONNECTOR.
 - 2. ALL MEASUREMENTS INCLUDE CONNECTOR.
 - 3. DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES

Detail 27 - 2 Flap Panel Wiring Assembly (2/2)

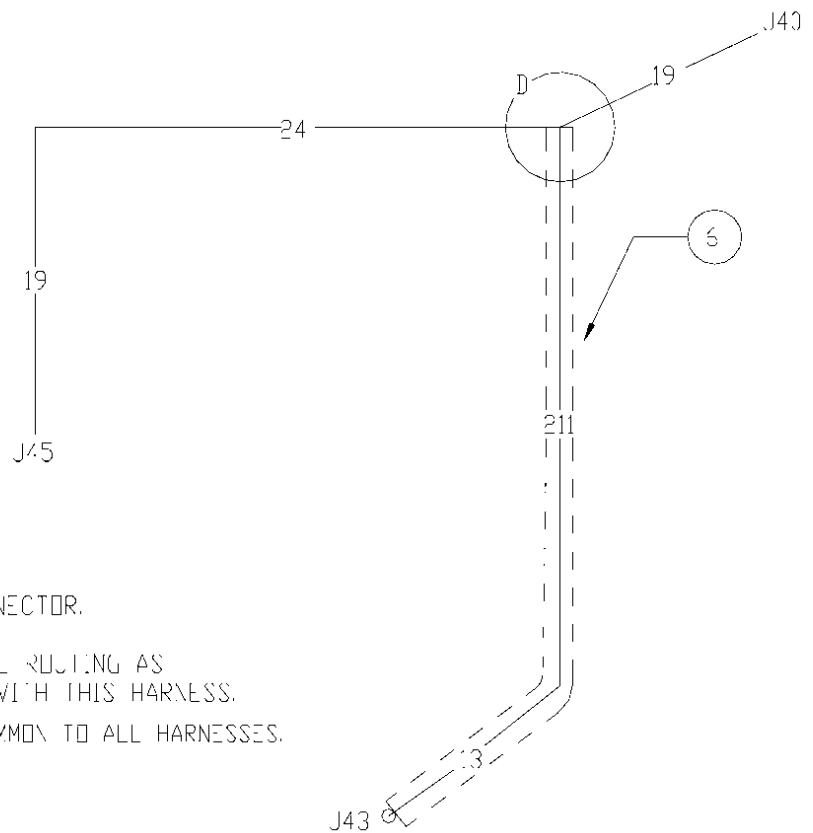


1. POSITIVE VOLTAGE DETERMINES MOVEMENT DIRECTION AS FOLLOWS:
A. AILERON, ROD EXTENDS, LEFT BANK
B. ELEVATOR, ROD EXTENDS, NOSE DOWN

12	:	315390-7	PLUG, CAVIITY, AMP	AMP
11	6	917308-1	CONTACT, RECEPTACLE, AMP	AMP
10	:	917318-4	NOT USED	---
9	:	917318-4	HOUSING, PLUG, SEVEN POSITION, AMP	AMP
8	:		NOT USED	---
7	203	M22759/16-22-9	WIRE, ELECTRIC, MED WT, 600 V, 22 ga, WHITE	---
6	19	567603083/ 555000352	ROUNDIT 2000NX, (5/16") PROTECTIVE OVERWRAP ROUNDIT 2000, PROTECTIVE WIRE WRAP	---
5	:	206478-2	BACKSHELL, 1 CONNECTOR size 2, AMP	AMP
4	1	206490-1	SOCKET 24 20 AWG, AMP	AMP
3	:	205205-5	RECEPTACLE, 15 PIN HDP 20 CONNECTOR size 2, AMP	AMP
2	5	794016-1	SOCKET 24-18 AWG, AMP	AMP
1	:	770356-1	RECEPTACLE, 6 PIN FREE HANGING, AMP	AMP
ITEM	QTY	PART NUMBER	DESCRIPTION OF MATERIAL	SUPPLIER REF.

PARTS LIST

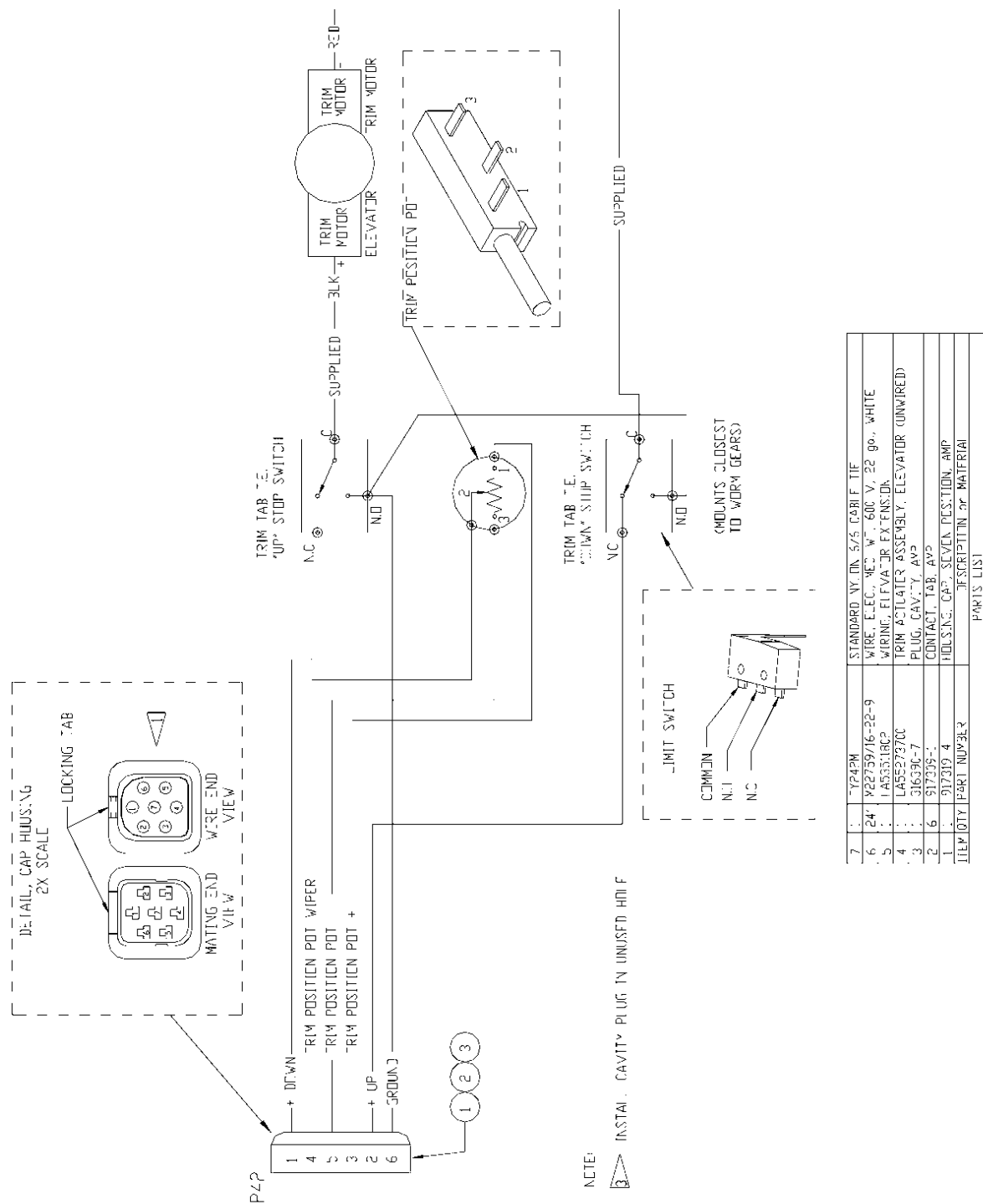
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Initial Issue of Manual: 12/20/04



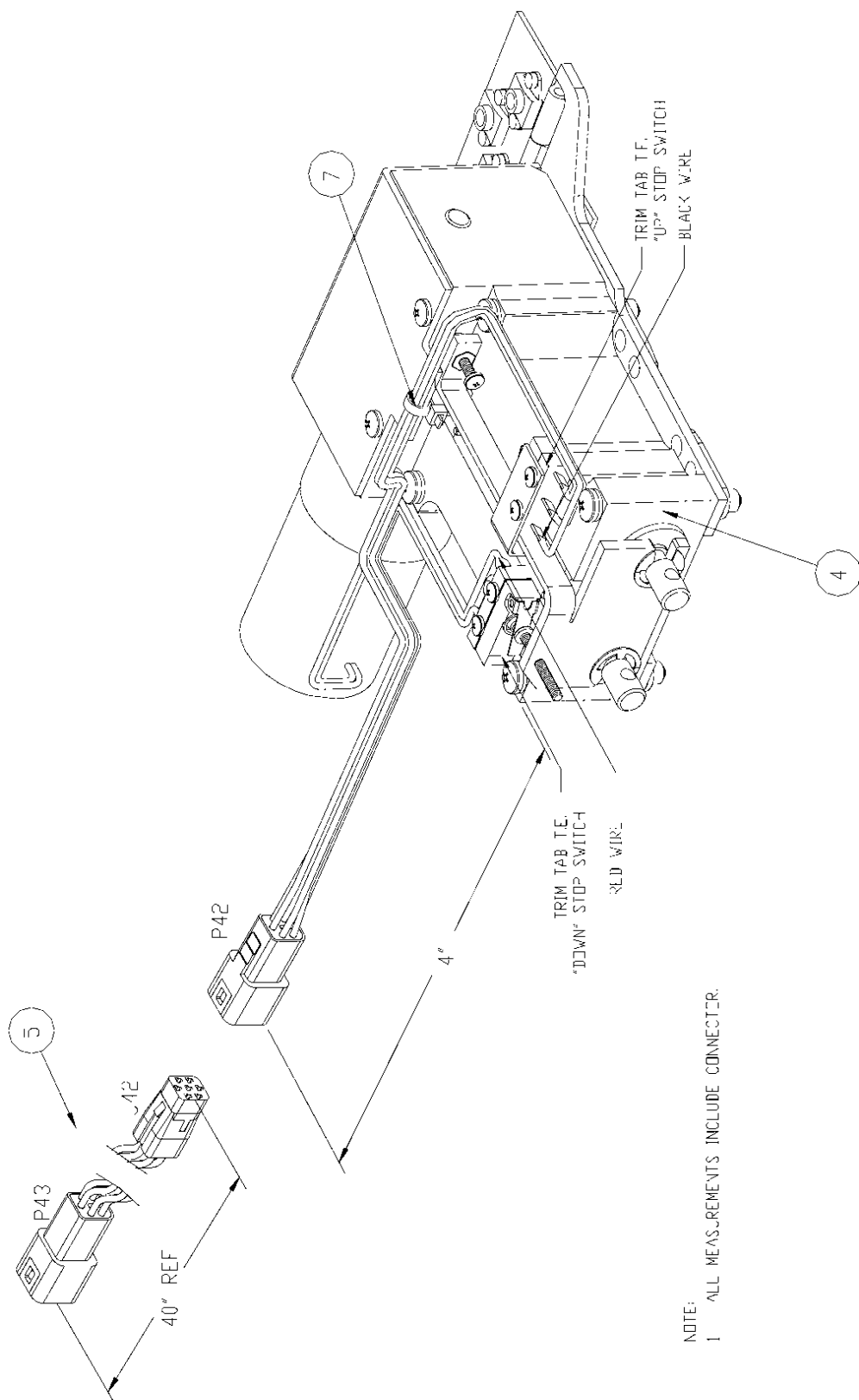
NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. OTHER HARNESSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED WITH THIS HARNESS.
3. ○ DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES.

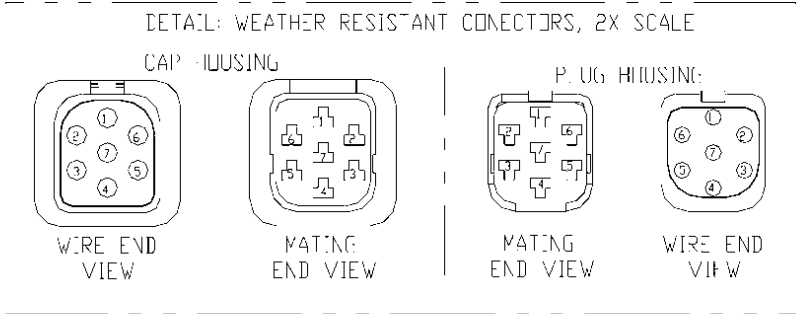
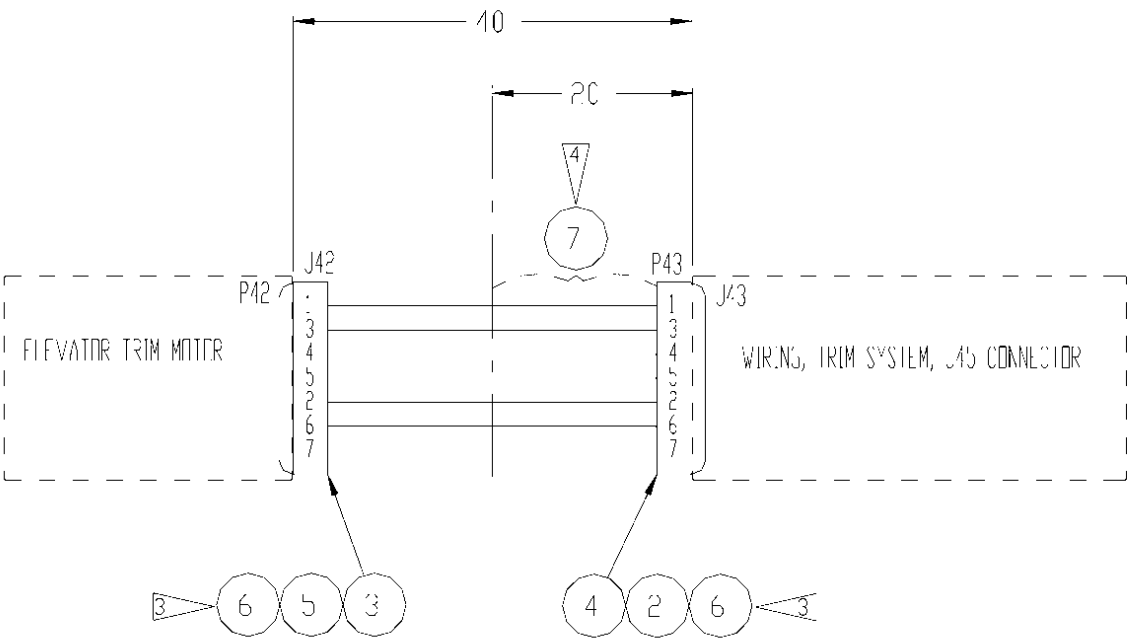
Detail 27 - 3 Trim System Wiring, J45 Connector (2/2)



Detail 27 - 4 Trim Actuator, Elevator Wiring (LA53511801G) (1/2)



Detail 27 - 4 Trim Actuator, Elevator Wiring (2/2)

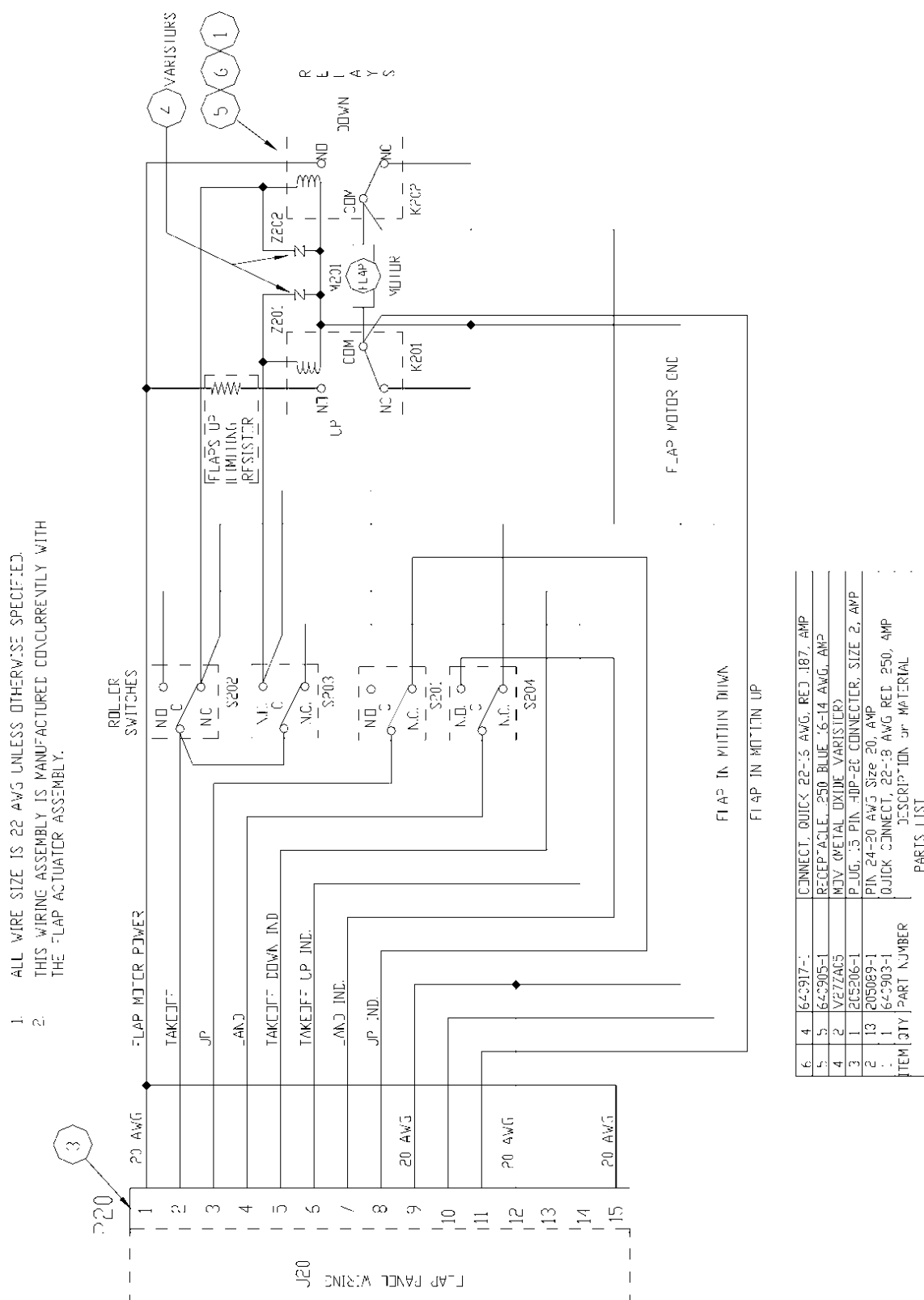


NOTES:

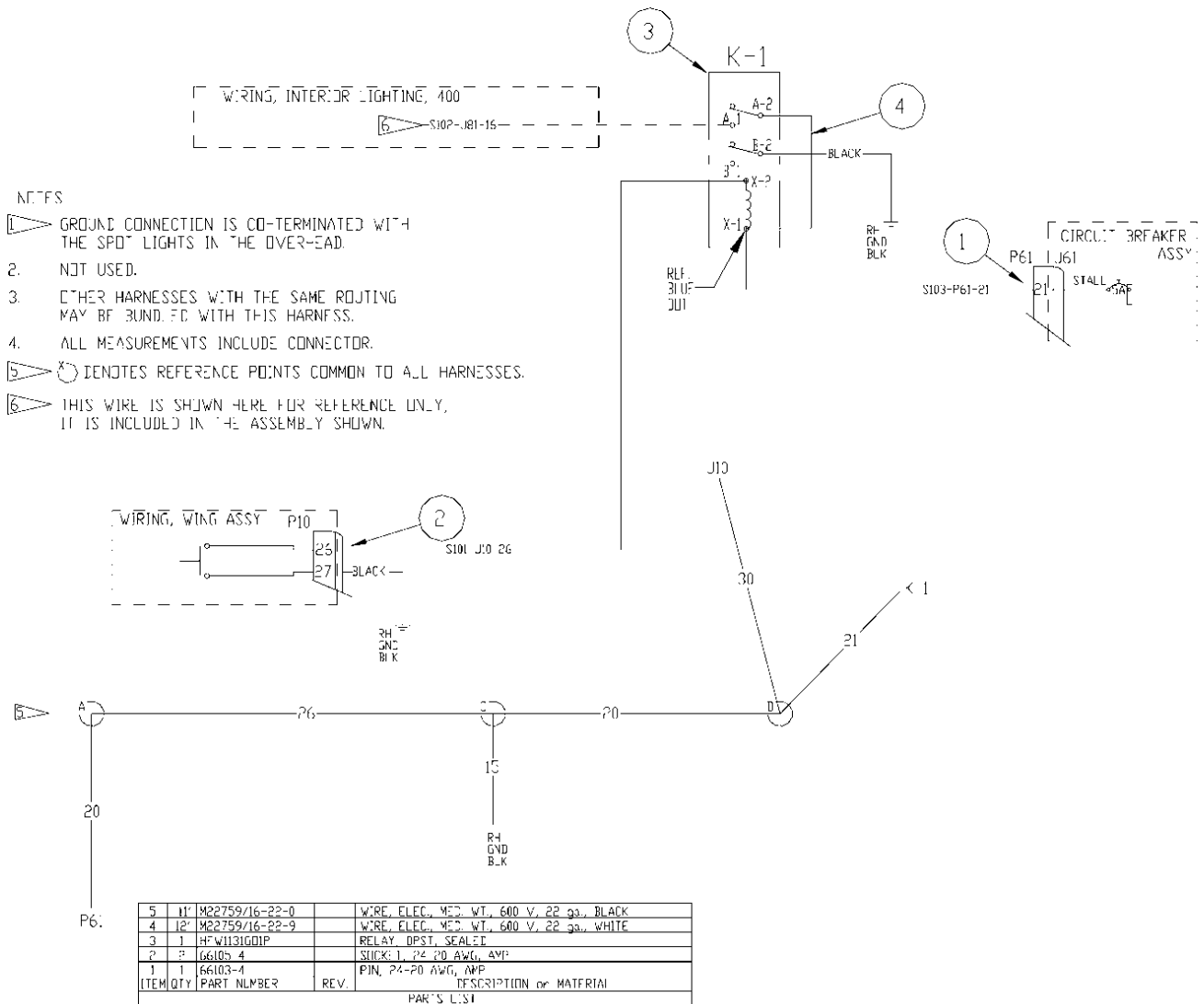
- 1. NOT USED.
- 2. ALL MEASUREMENTS INCLUDE CONNECTOR.
- 3. INSERT PLUG INTO UNUSED CONTACT RECEPTACLE.
- 4. COVER 1/2 OF HARNESS FROM P43 CONNECTOR WITH ANTI-CHAFF MATERIAL.

7	2'	655000352	OVERWRA? FIRE RESISTANT, ROUNDT, 5/16"
6	2	316390-7	PLUG, CAVITY, AMP
5	6	917308-1	CONTACT, RECEPTACLE, AMP
4	6	917309-1	CONTACT, TAB, AMP
3	1	917318-4	HOUSING, PLUG, SEVEN POSITION, AMP
2	1	917319-4	HOUSING, CAP, SEVEN POSITION, AMP
1	20'	M22759/16-22-9	WIRE, ELECTRIC, M.L. W1, 600 V, 22 ga, WHITE
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

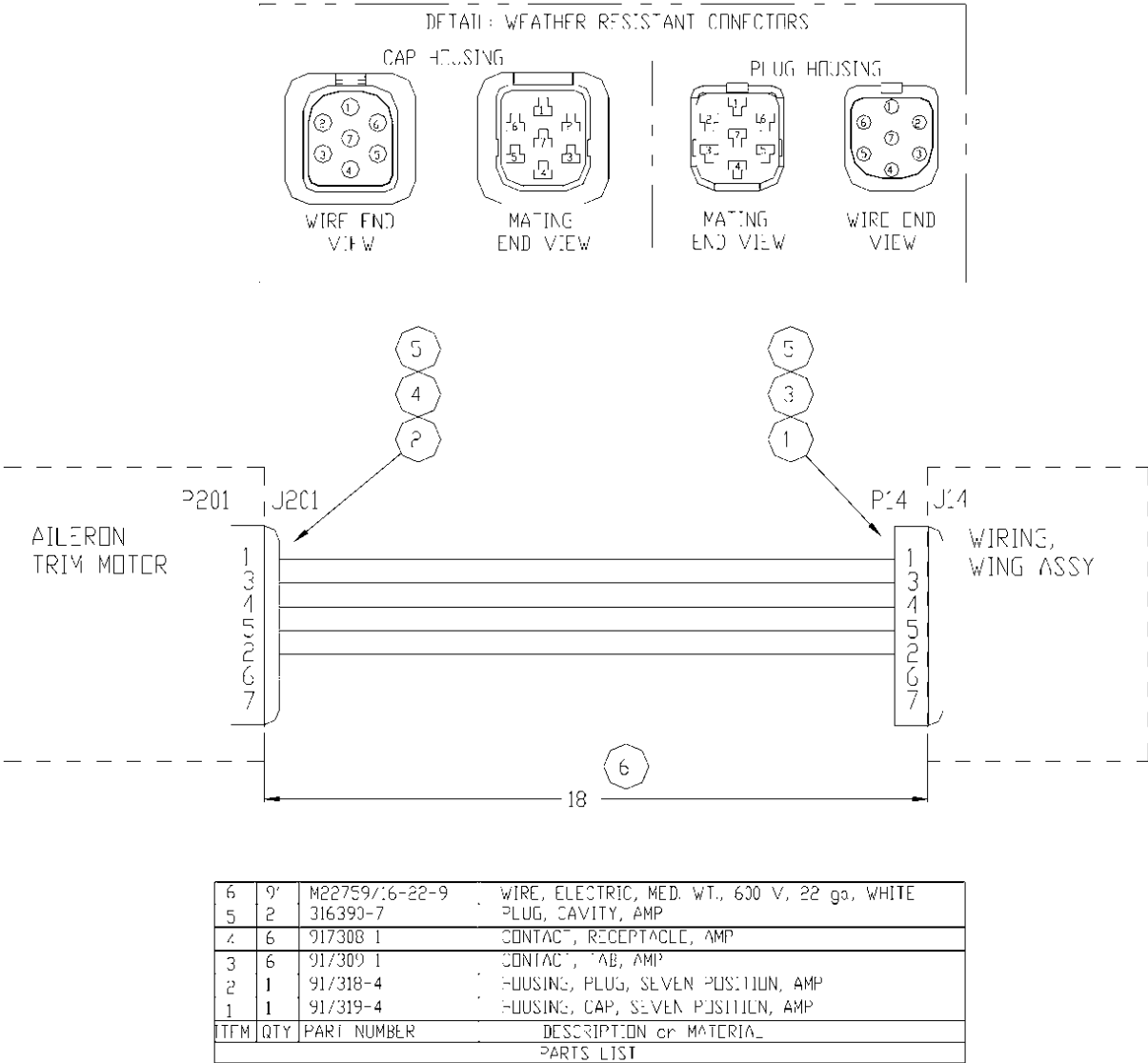
Detail 27 - 5 Elevator Extension Wiring (LA53511802B) (1/1)



Detail 27 - 6 Flap Actuator Wiring Assembly (LA57261015B) (1/1)



Detail 27 - 7 Stall Warning Wiring (LC53514400C1) (1/1)



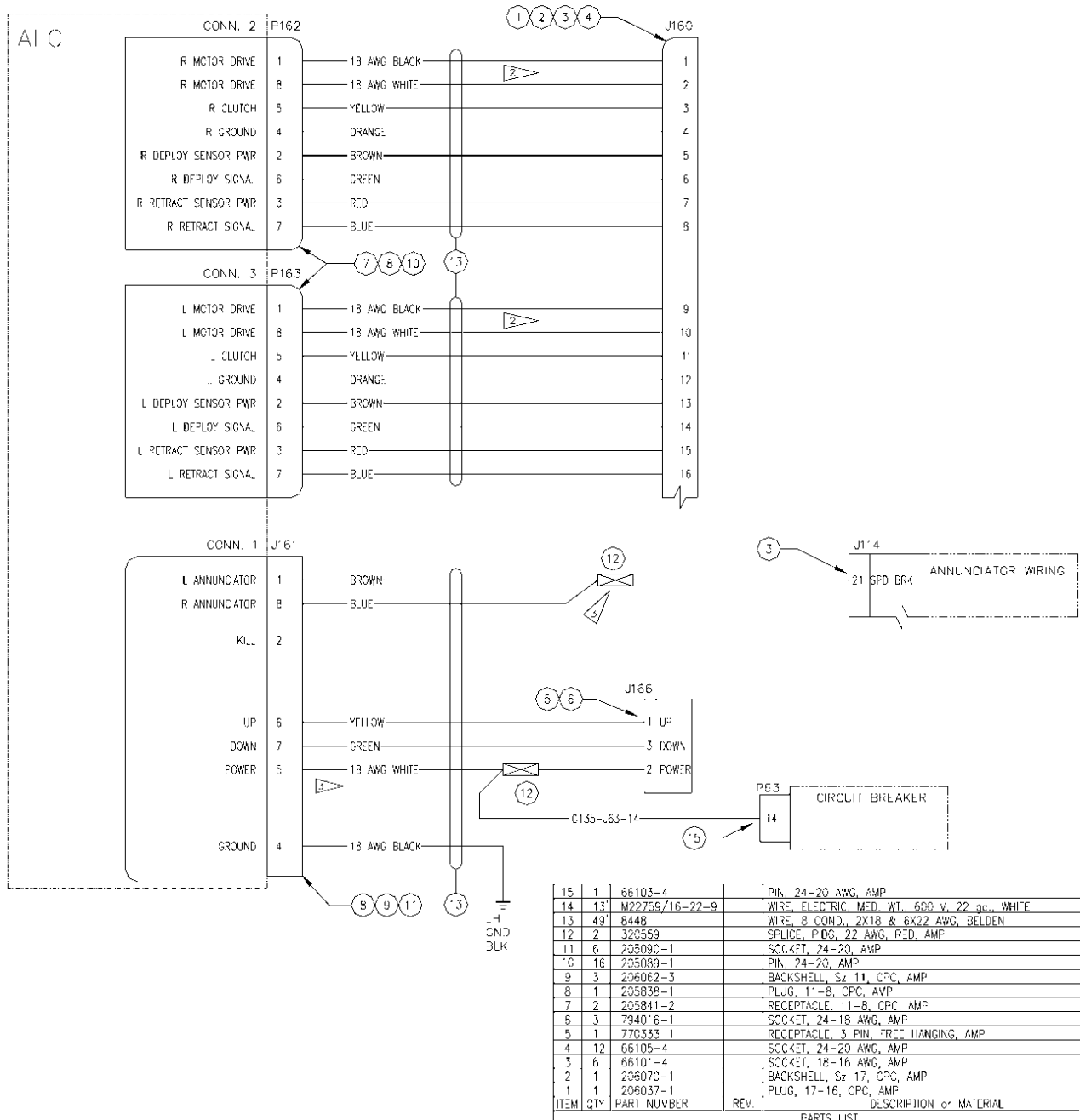
Detail 27 - 8 Aileron Extension Harness Wiring (LA57273232B) (1/1)

NOTES:

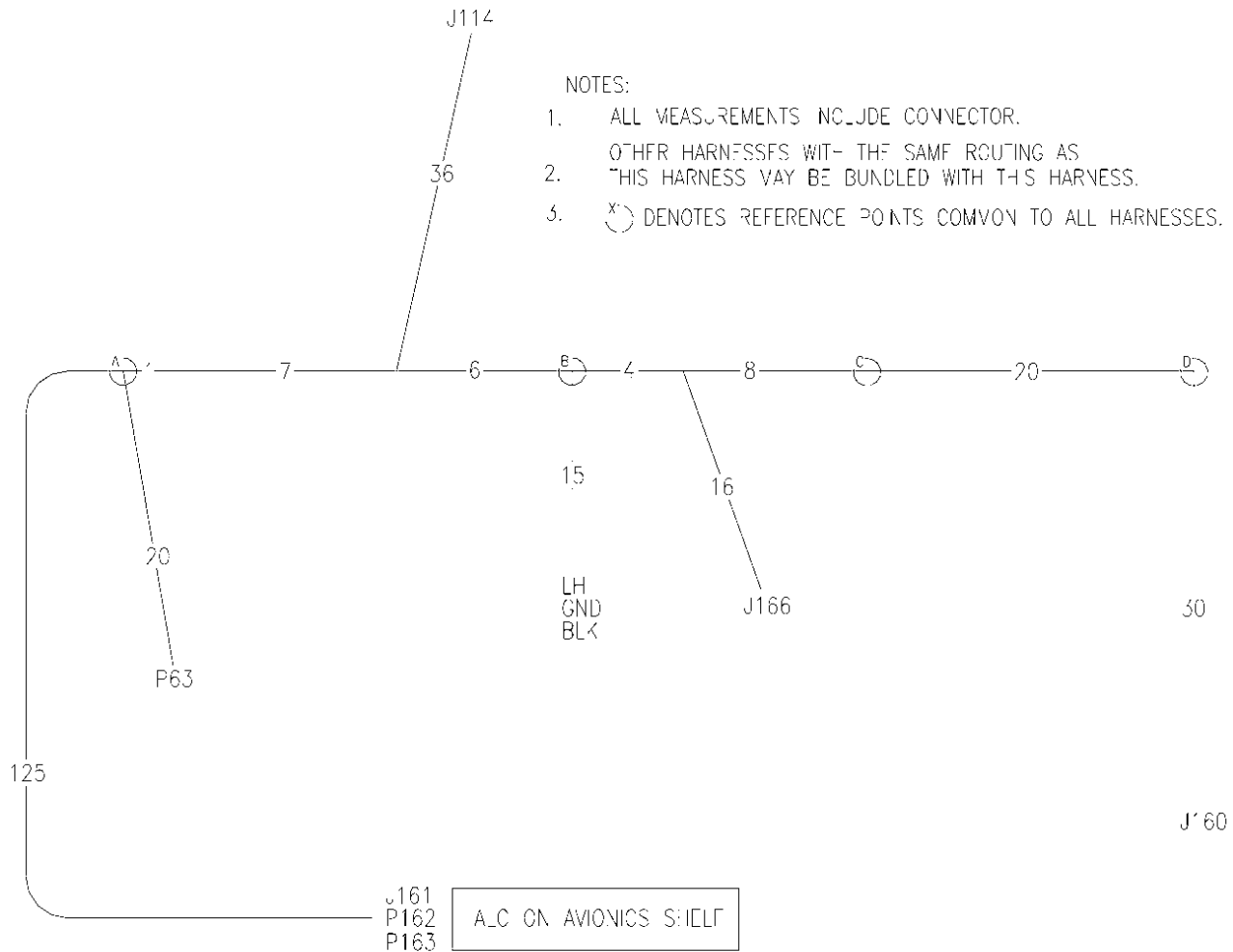
1. NOT USED.

2. IS PERMISSIBLE TO PEEL OFF 4 STRANDS OF THE 18 GAUGE WIRE TO FIT THE PLUG OR SOCKET.

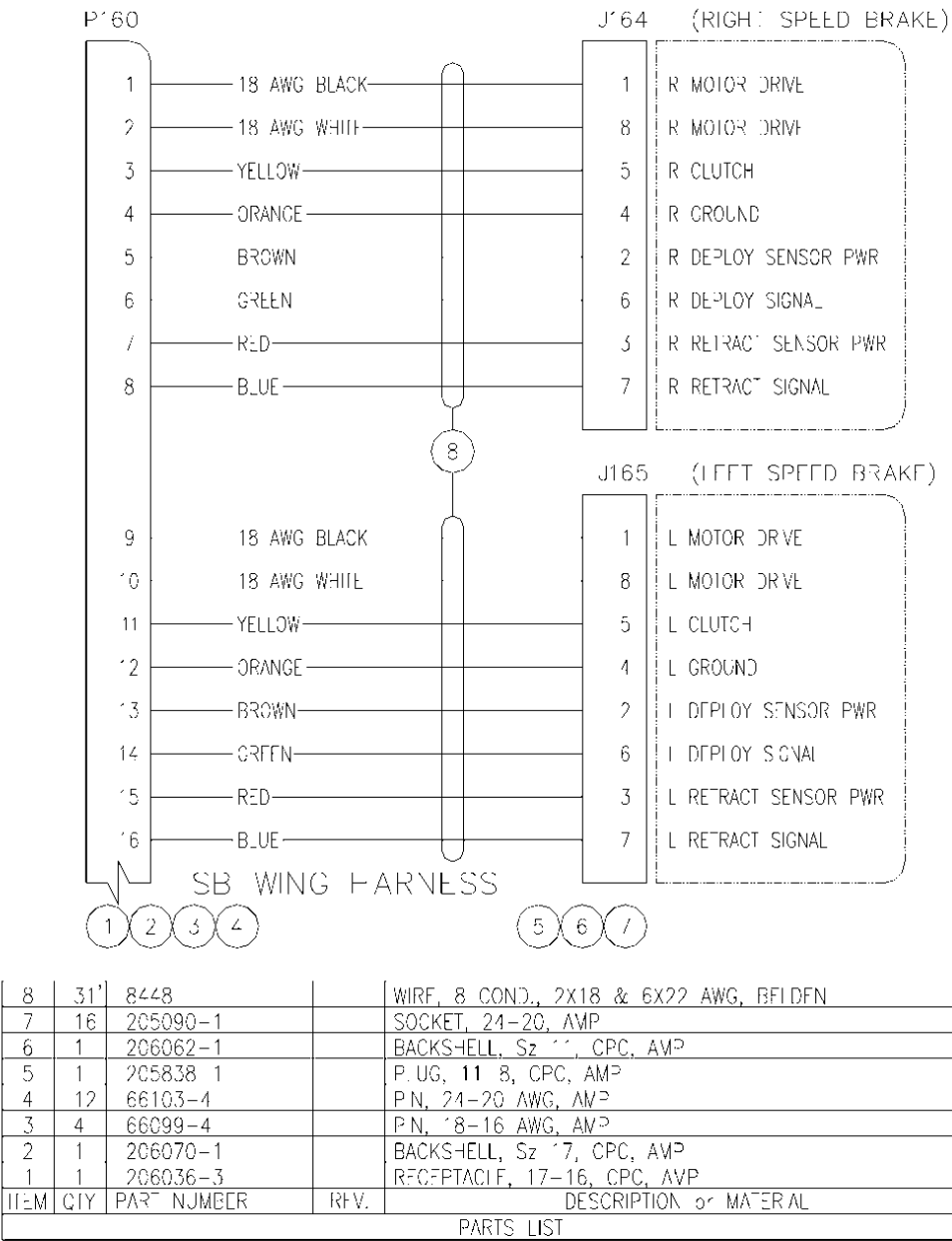
3. PLACE SPLICE TO WITHIN 6" OF J114 CONNECTOR.



Detail 27 - 9 ALC Speedbrakes Wiring (LC53345005B1) (1/2)

**Detail 27 - 9 ALC Speedbrake Wiring (2/2)**

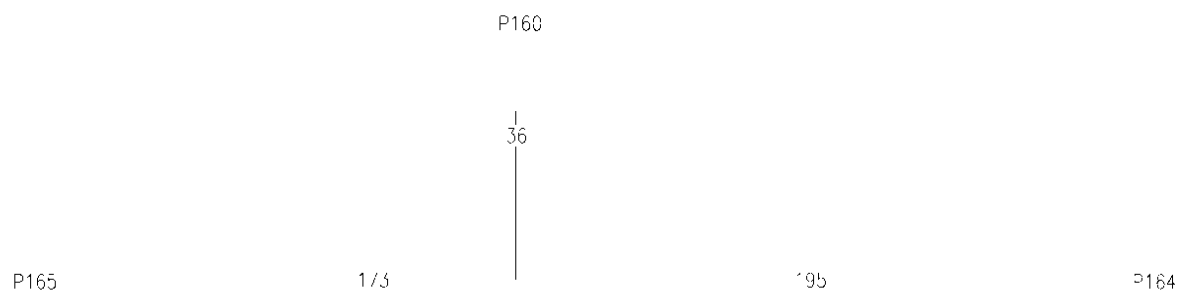
- NOTES:
- 1. ALL WIRE IS 22 AWG UNLESS OTHERWISE SPECIFIED.



Detail 27 - 10 Speedbrakes Wing Wiring (LB53345007-1) (1/2)

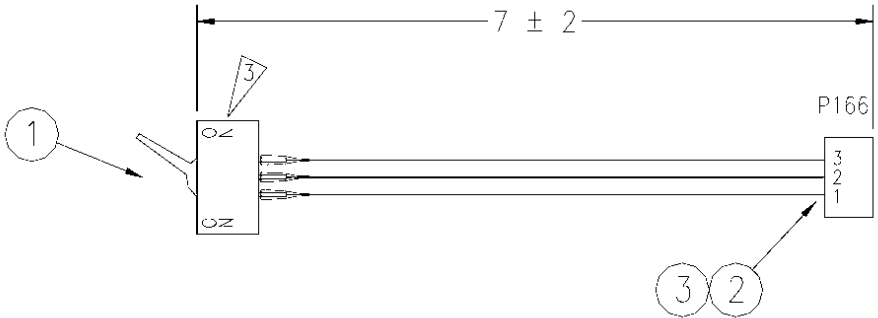
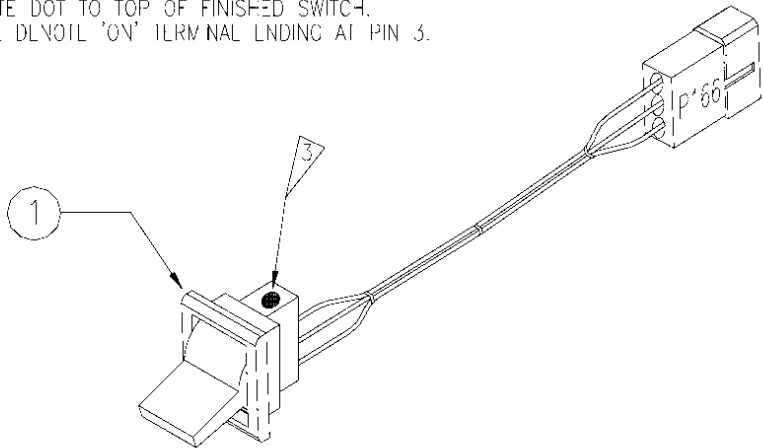
NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. THIS HARNESS IS BUNDLED WITH THE WING HARNESS.

**Detail 27 - 10 Speedbrakes Wing Wiring (2/2)**

NOTES:

- 1. NOT USED.
- 2. SOLDER WIRES TO SWITCH TERMINALS AND COVER EACH WITH HEAT SHRINK.
- 3. ADD WHITE DOT TO TOP OF FINISHED SWITCH. DOT WILL DENOTE 'ON' TERMINAL ENDING AT PIN 3.

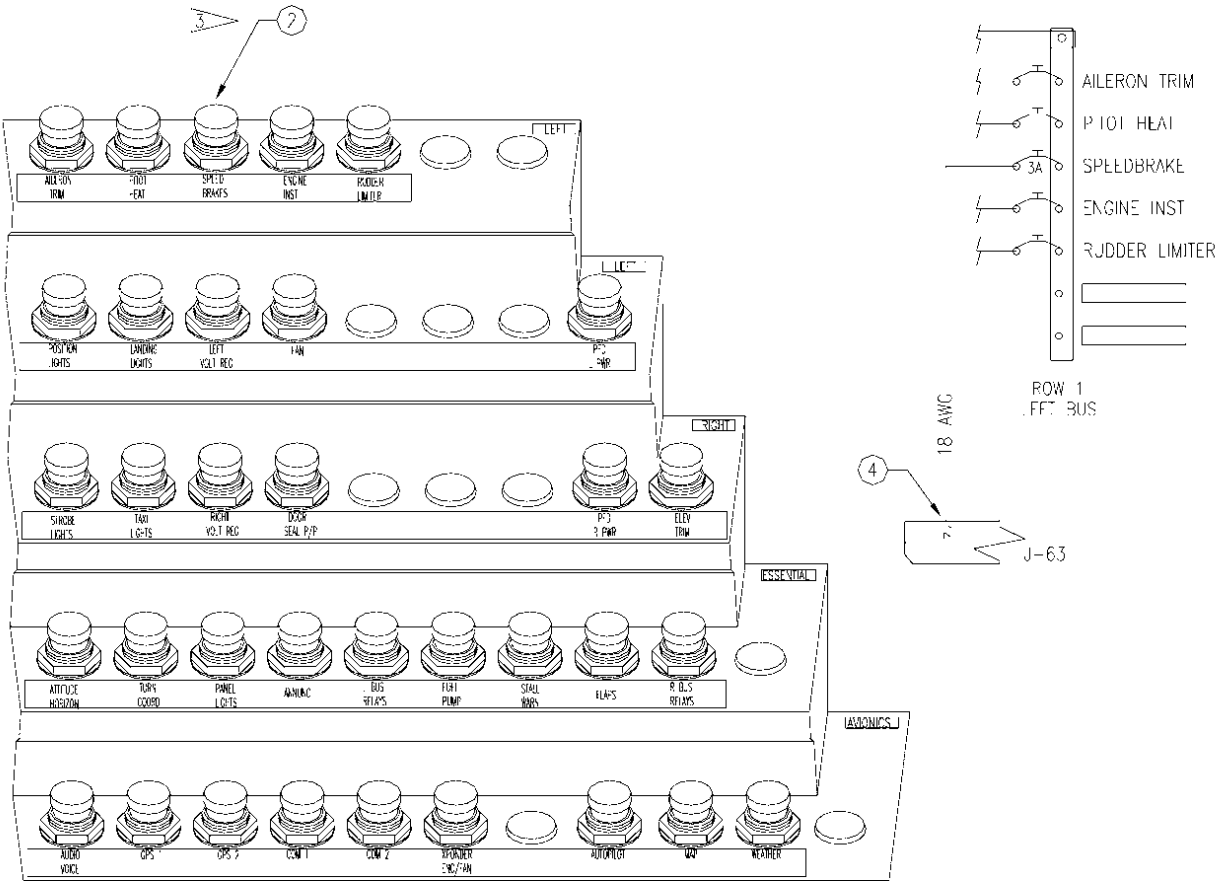


4	2'	M22/59/16-22-9	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., WHITE
3	3	7940-7-	PIN, 24-18 AWG, AMP
2	1	770331-1	PLUG, 3 PIN, FREE HANGING, AMP
1	1	7101J61ZQE22	SWITCH, LEVER, C&K
ITEM	QTY	PART NUMBER	REV. DESCRIPTION or MATERIAL

PARTS LIST

Detail 27 - 11 Speedbrakes Switch Assembly Wiring (LB53345003-1) (1/1)

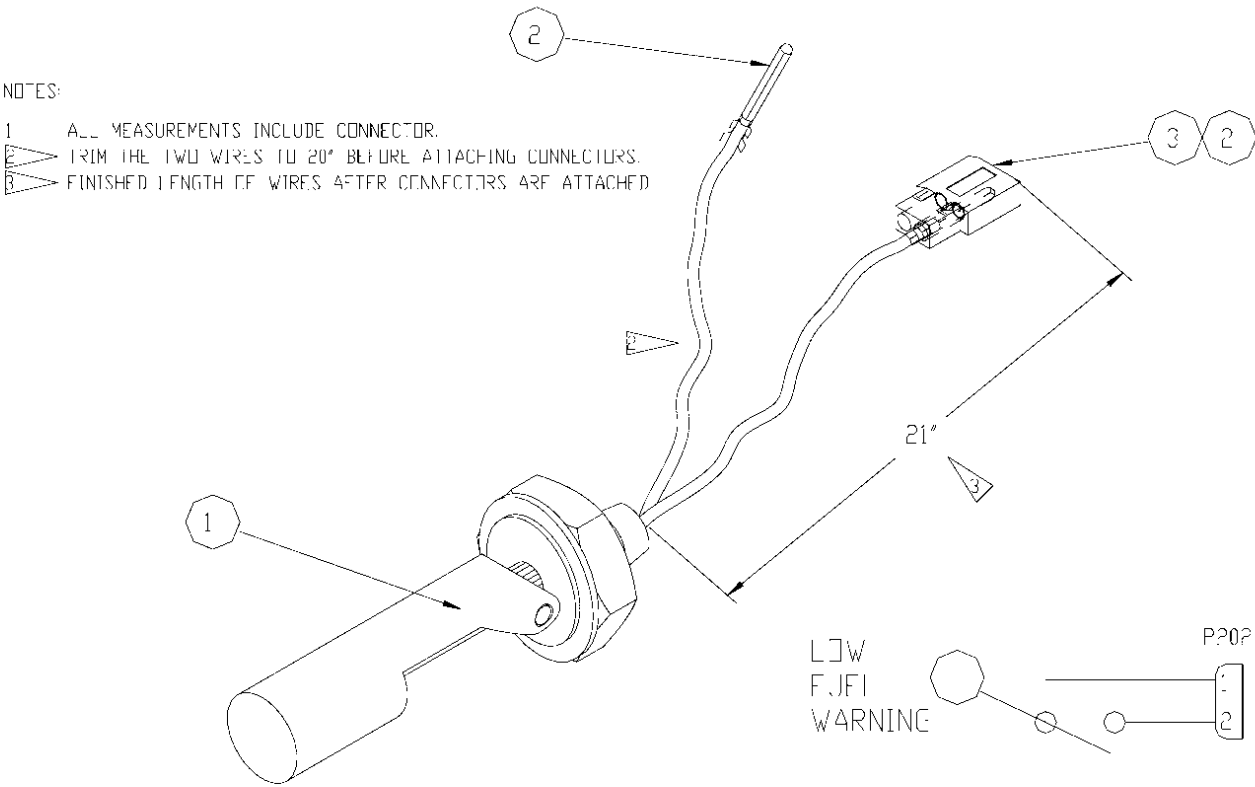
- NOTES:
- 1. SPEEDS BRAKES ARE AN OPTION IN THE MODEL 350 AND 400 AIRCRAFT.
 - 2. USE DETERMINED PWR AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.
3. INSTALL CIRCUIT BREAKER AND WIRING WITH ALL OTHERS.



4	1	66101-4	SOCKET, 18-16 AWG, AMP
3	2	M22753/16-18-9	WIRE, ELECTRIC, MED. WT., 18 ga., WHITE
2	1	7227 2 3	CIRCUIT BREAKER, 3 AMP, KLIXON
1	1	36152	TERMINAL RING, 22-16 AWG, #8 STUD, RED
PART NUMBER			DESCRIPTION or MATERIAL
PARTS LIST			

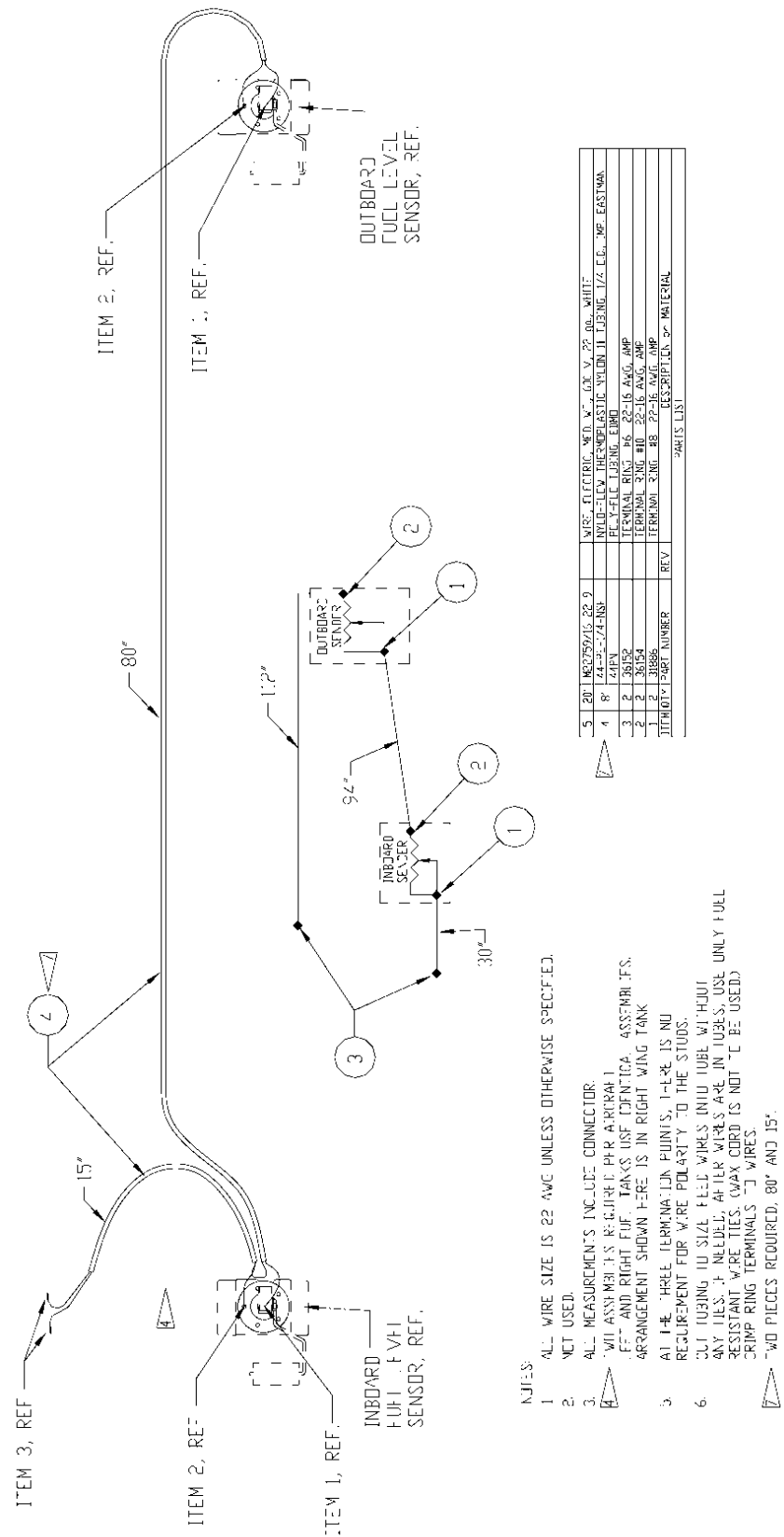
Detail 27 - 12 Speedbrakes Circuit Breaker (LB53345009-1) (1/1)

- End of Chapter -

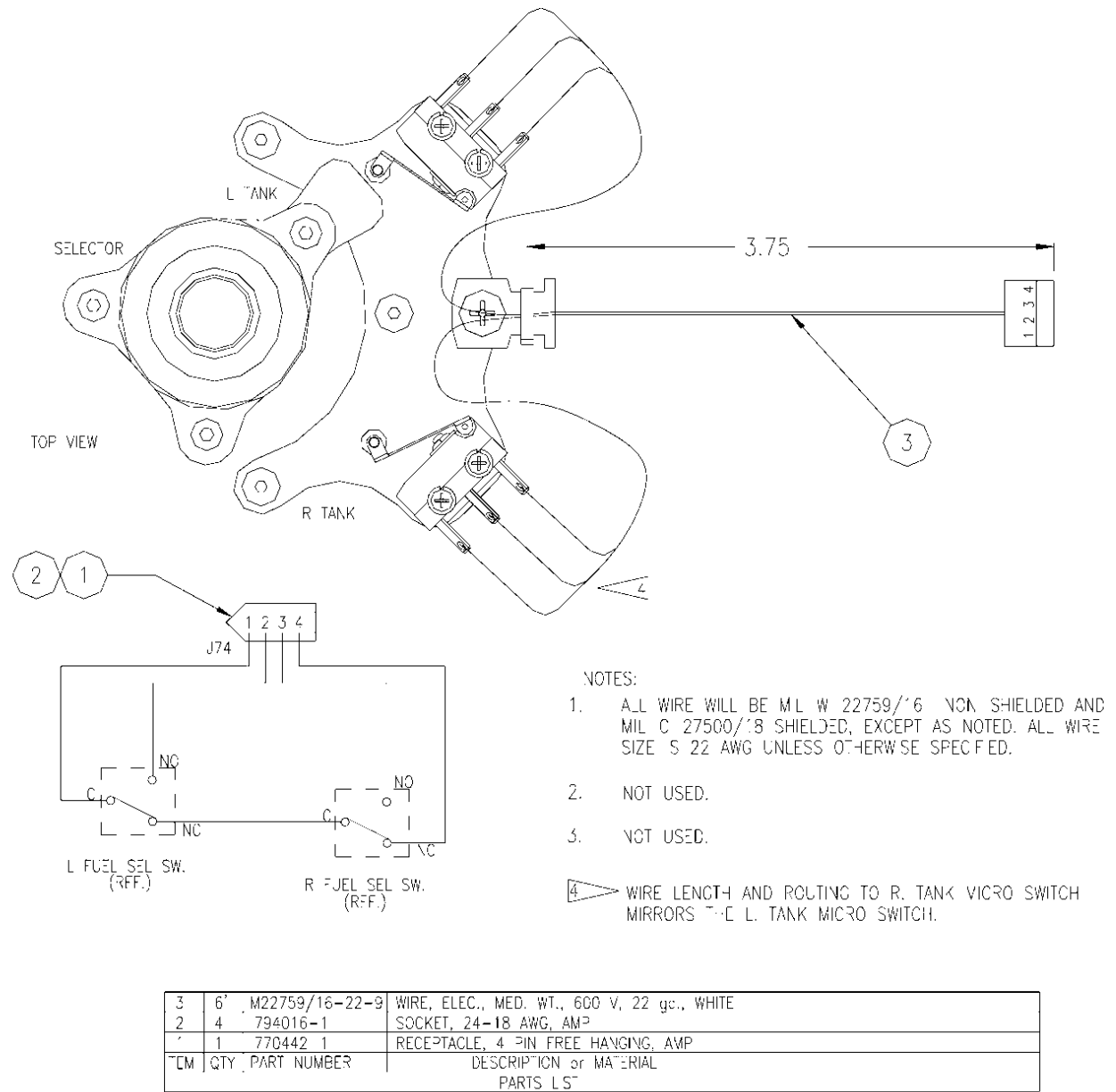


3	1	770340-1	PLUG, 2 PIN, FREE HANGING, 4MP
2	2	794017-1	PIN 24-18 AWG, AMP
1	1	165573	LOW FUEL (WARNING) SWITCH, GMS
ITEM QTY	PART NUMBER	DESCRIPTION or MATERIAL	
PARTS LIST			

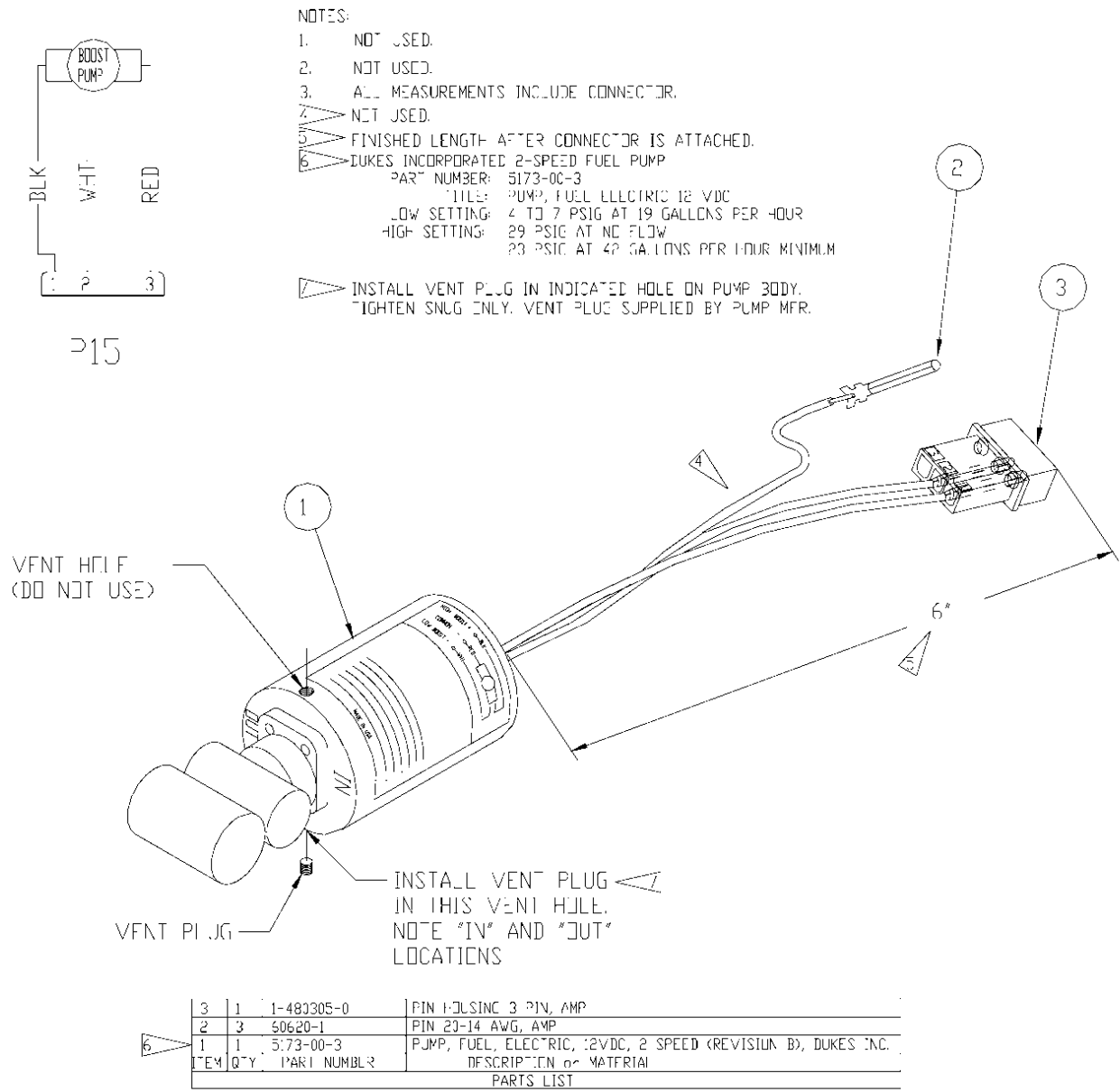
Detail 28 - 1 Low Fuel Level Switch and Wiring (LA57280045B1) (1/1)



Detail 28 - 2 Fuel Sensors Wiring Assembly (LA57315000D1) (1/1)



Detail 28 - 3 Fuel Selector Wiring (LA57282019D) (1/1)

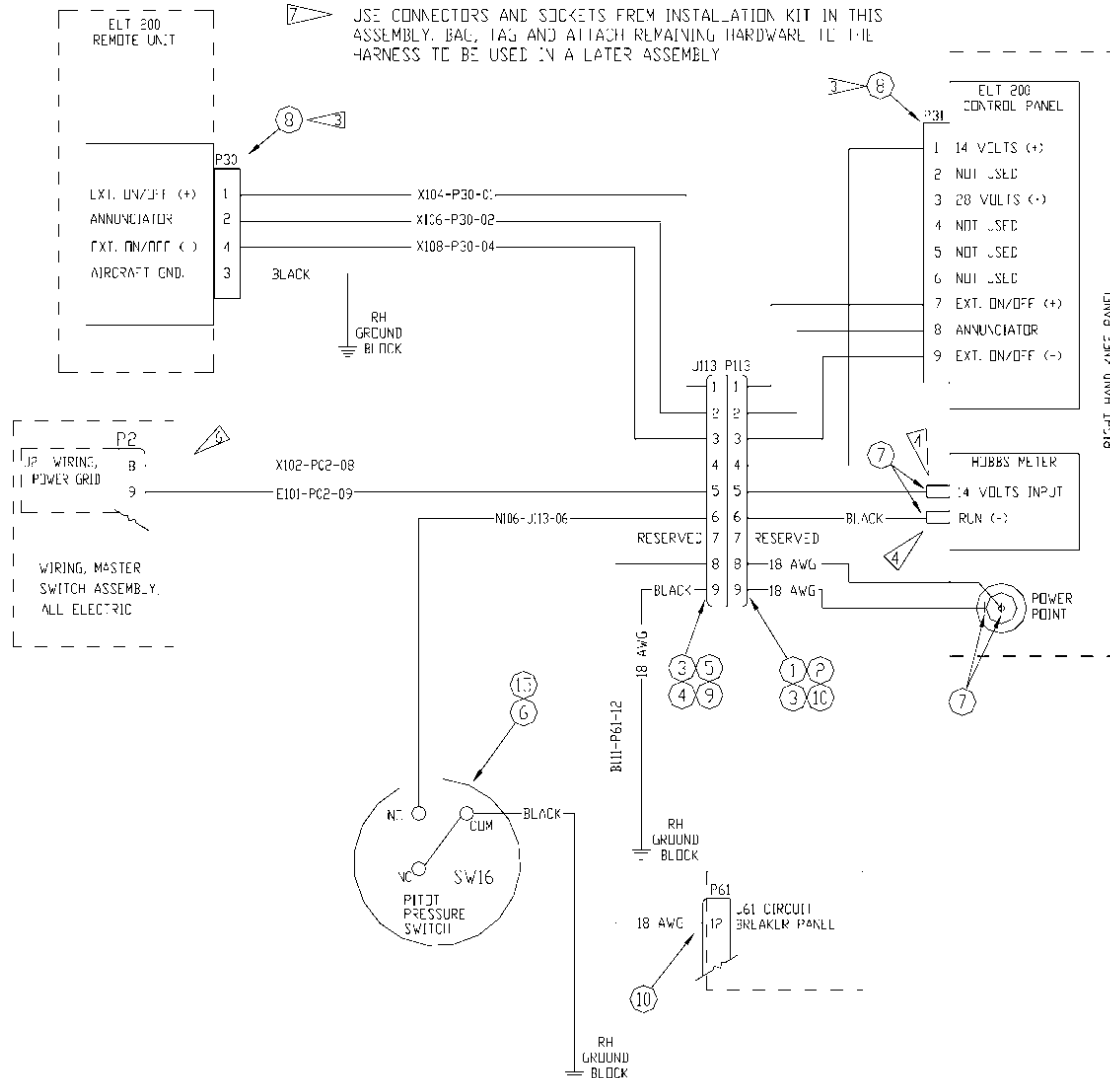


Detail 28 - 4 Fuel Boost Pump (LA57283009E1) (1/1)

- End of Chapter -

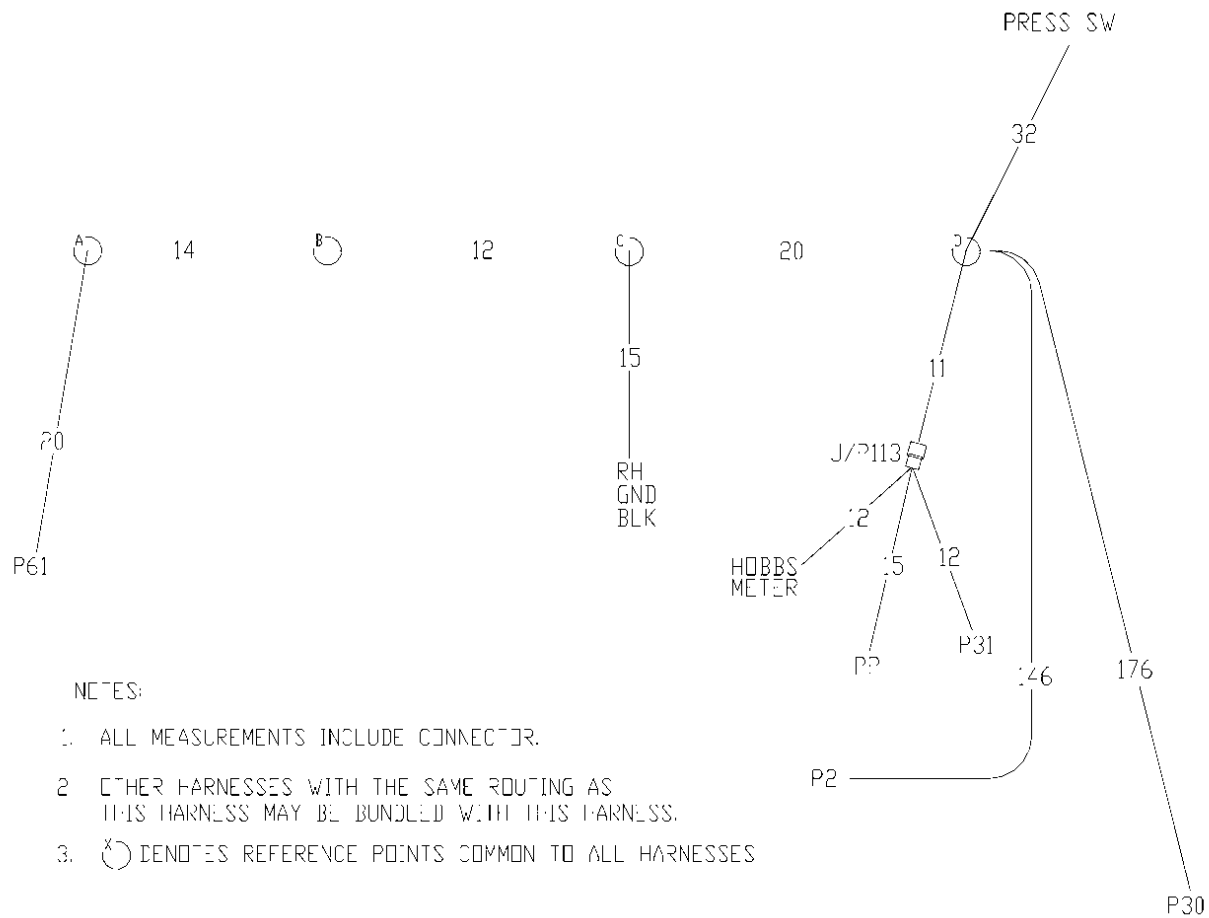
NOTES:

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE NOTED.
2. [THIS ENCLOSURE SHOWS REFERENCE TO ASSOCIATED DWG.]
3. USE WIRING INSTALLATION KIT HERE, PART OF ITEM 8; ELT UNIT AND ANTENNA, ELT CONTROL PANEL, INSTALLED INTO RIGHT SIDE KNEE BOOSTER.
4. COVER EXPOSED METAL PORTION OF TERMINALS WITH HEAT SHRINK.
5. NOT USED.
6. LEAVE WIRES UNTERMINATED HERE. WIRES WILL BE TRIMMED TO FIT AND TERMINATED IN A LATER ASSEMBLY.
7. USE CONNECTORS AND SOCKETS FROM INSTALLATION KIT IN THIS ASSEMBLY. BAG, TAG AND ATTACH REMAINING HARDWARE TO THE HARNESS TO BE USED IN A LATER ASSEMBLY.



15	1	9362-02C	PRESSURE SWITCH, PSF 103 SERIES, 2" HEC, FIXED, WORLD MAGNETICS
14	75	M22759/16-22-9	WIRE, ELECTRIC, MEDIUM WT., 600 V, 22 ga., WHITE
13	18	M22759/16-22-0	WIRE, ELECTRIC, MEDIUM WT., 600 V, 22 ga., BLACK
12	10	M22759/16-18-5	WIRE, ELECTRIC, MEDIUM WT., 600 V, 18 ga., WHITE
11	5	M22759/16-18-0	WIRE, ELECTRIC, MEDIUM WT., 600 V, 18 ga., BLACK
10	3	66099-4	PIN, 18-16 AWG, AMP
9	2	6601-4	SOCKET, 18-16 AWG, AMP
8	455-0203	INSTALLATION KIT, ELT 200, ARTEX	
7	5	640903-1	RECEPTACLE, 25C, RET, 22-18 AWG, AMP
6	3	64092-1	CONNECTOR, QUICK, 18-22-16 AWG
5	6	66105-4	SOCKET, 24-20 AWG, AMP
4	1	236708-1	PIN, 13-9 PIN CPC, SIZE 11, AMP
3	2	236966-1	BACKSHELL, SIZE 13 CPC, AMP
2	6	6603-4	PIN, 24-20 AWG, AMP
1	1	236705-2	RECEPTACLE, 13-9 PIN CPC, HOLE HANGING, AMP
ITEM QTY PART NUMBER		REV.	DESCRIPTION or MATERIAL
PARTS LIST			

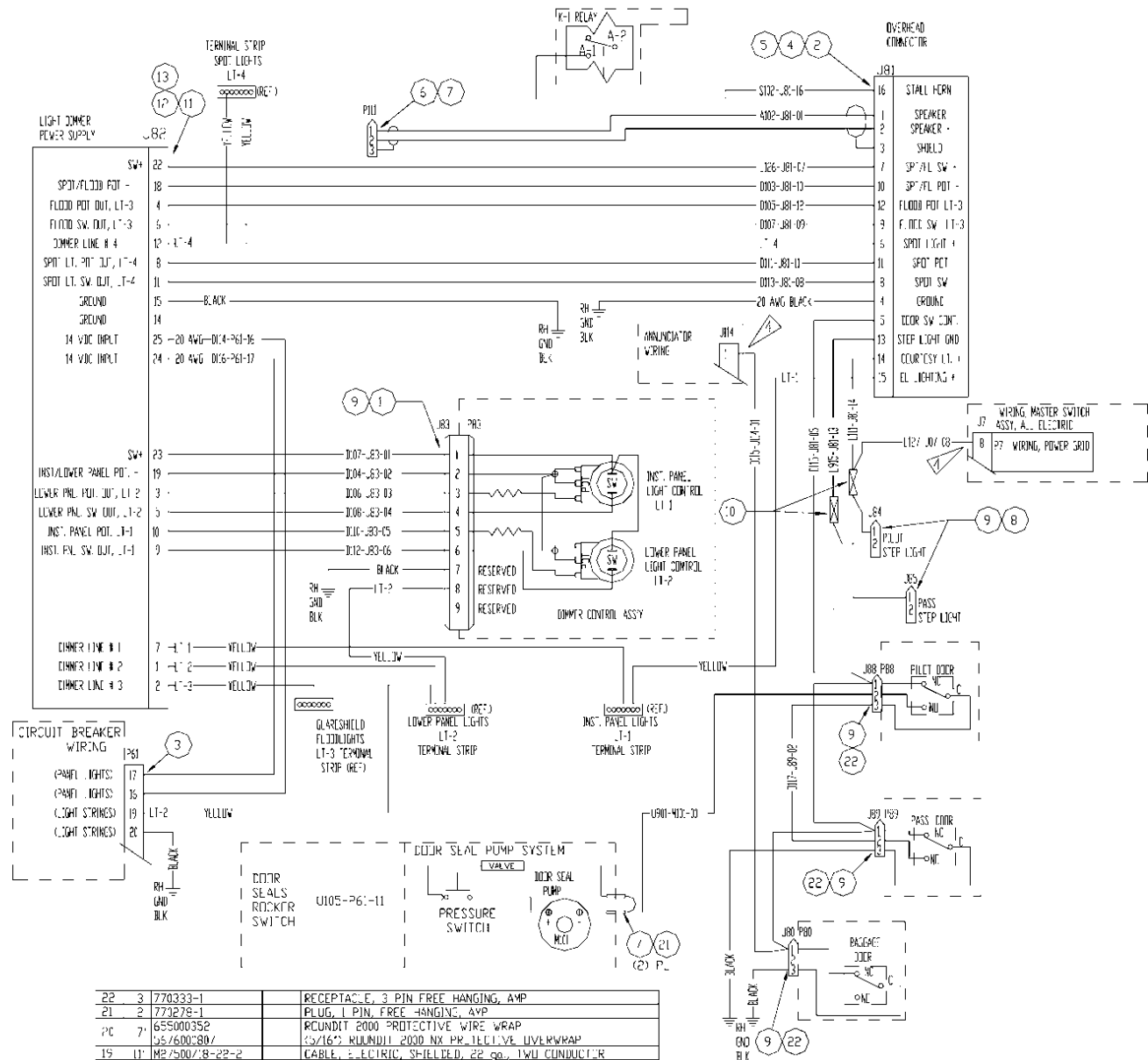
Detail 31 - 1 ELT and HOBBS Wiring (LC53513100A) (1/2)

**Detail 31 - 1 ELT and HOBBS Wiring (2/2)**

- End of Chapter -

NOTES:

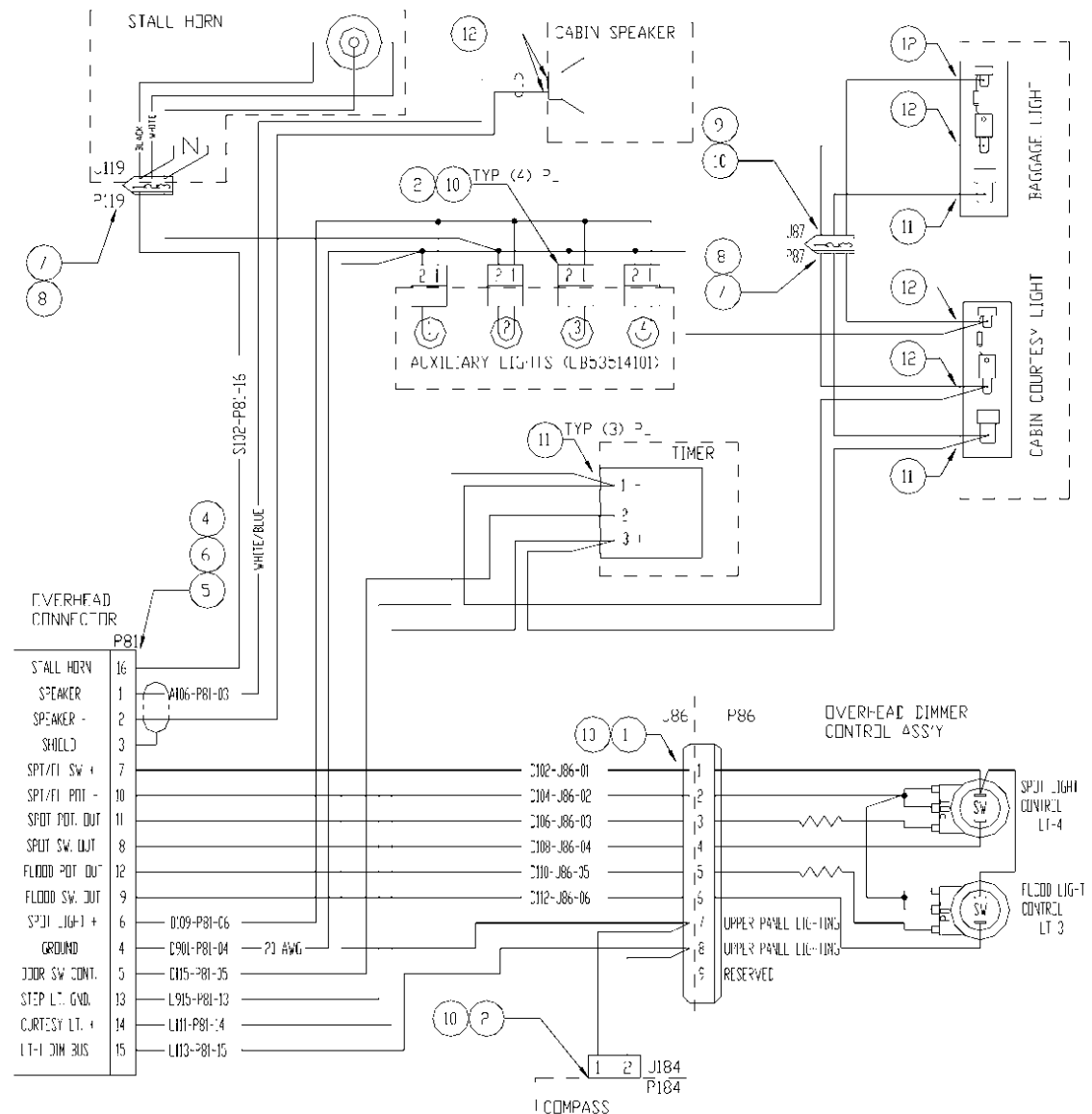
- 1: ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE NOTED
2: DASH ENCLOSURE SHOWS REFERENCE TO ASSOCIATED DWG.
3: NOT USED.
4: THIS WIRE REMAINS UNTERMINATED UNTIL A LATER ASSEMBLY.



22	3	770333-1	RECEPTACLE, 2 PIN FREE HANGING, AMP
22	3	77232-1	PLUG, 1 PIN, FREE HANGING, AMP
PC	7	655000352	ROUND 2000 PROTECTIVE WIRE WRAP
		95/1608/30	1/4"X1/2" ROUND 2000 NIPPLE ULVLY WRAP
15	11	M27500/16-22-2	CABLE - ELECTRIC, SHIELDED, 22 GA., 15W CONDUCTOR
18	2504	M22755/16-22-9	WIRE, E-2CTR, MED. WT, 60C V, 22 GA., WHITE
17	43	M22759/16-22-4	WIRE, ELECTRIC, MED. WT, 500 V, 22 GA., YELLOW
16	32	M22759/16-22-6	WIRE, E-2CTR, MED. WT, 60C V, 22 GA., BLACK
15	20	M22759/16-20-5	WIRE, E-2CTR, MED. WT, 60C V, 20 GA., WHITE
14	10	M2759/16-20-3	WIRE, ELECTRIC, MED. WT, 500 V, 20 GA., BLACK
13	2	206478-3	BACKSHELL, D CONNECTOR, SIZE 3, AMP
12	18	205690-1	SOCKET 24-20 AWG, AMP
11	1	205237-4	RECEPTACLE, 25 PIN HP-20 CONNECTOR, SIZE 3, AMP
10	2	202059	RED BU 1 SP, CL, AMP
9	20	7540-6-1	SOCKET 24-18 AWG, AMP
8	2	170342-1	RECEPTACLE, 2 PIN FREE HANGING, AMP
7	5	754017-1	PLUG 24-18 AWG, AMP
6	1	770331-1	PLUG, HUSING, 3 PIN FREE HANGING, AMP
5	1	P26670-1	SHIELD, SIZE 17 GP, AMP
4	1	P26637-1	PLUG, 17 16 PIN KPC, SIZE 11, AMP
3	5	655-3-4	PLUG 24-20 AWG, AMP
2	17	656-35-4	SOCKET 24-18 AWG, AMP
1	1	170429-1	RECEPTACLE, 2 PIN FREE HANGING, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL

Detail 33 - 1 Wiring For Interior Lighting (LC53514200A) (1/2)



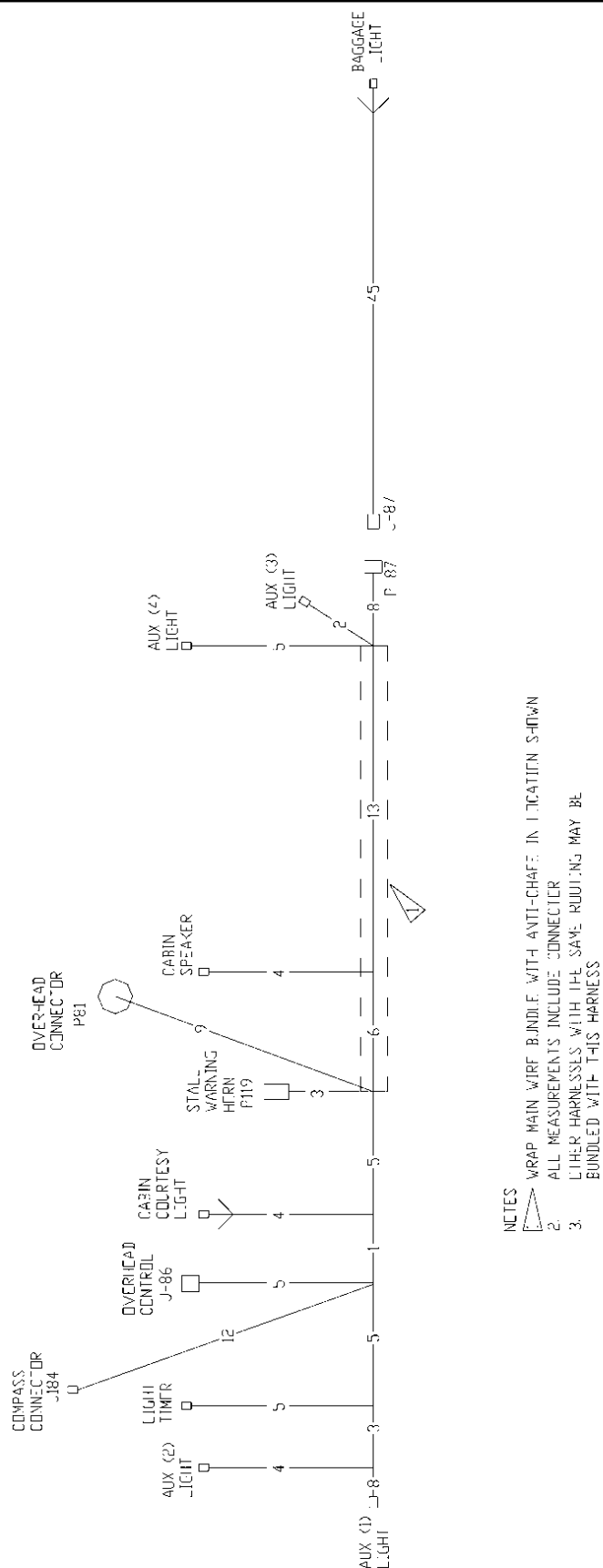


NOTE:

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE NOTED.

ITEM	QTY	PART NUMBER	REV.	DESCRIPTION OR MATERIAL
16	2	M2500/18-22-2		CABLE, ELECTRIC, SHIE. RED, 22 ga., 2 WD CONDUCTOR
15		NUT, LSLT		
14	50	M2759/16-22-9		WIRE, ELECTRIC, MED WT, 600 V, 22 ga., WHITE
13	12	M2759/16-20-9		WIRE, ELECTRIC, MED WT, 600 V, 20 ga., WHITE
12	6	540917-1		CONNECT. QUICK, .187 22-16 AWG, AMP
11	5	540903-1		RECEPTACLE, 250 RED 22-18 AWG, AMP
10	21	754016-1		SOCKET, 24-18 AWG, AMP
9	1	770333-1		RECEPTACLE, 3 PIN FREE HANGING, AMP
8	5	754017-1		PIN 24-18 AWG, AMP
7	2	770331-1		PLUG, HULSING, 3 PIN FREE HANGING, AMP
6	1	206072-1		BACKSHELL, SIZE 17, OPC, AMP
5	1	206035-3		RECEPTACLE, 17-16 PIN 22-18 AWG, AMP
4	16	56103-4		PIN 24-20 AWG, AMP
3				NUT, LSLT
2	5	770342-1		RECEPTACLE, 2 PIN, FREE HANGING, AMP
1	1	772429-1		RECEPTACLE, 9 PIN FREE HANGING, AMP

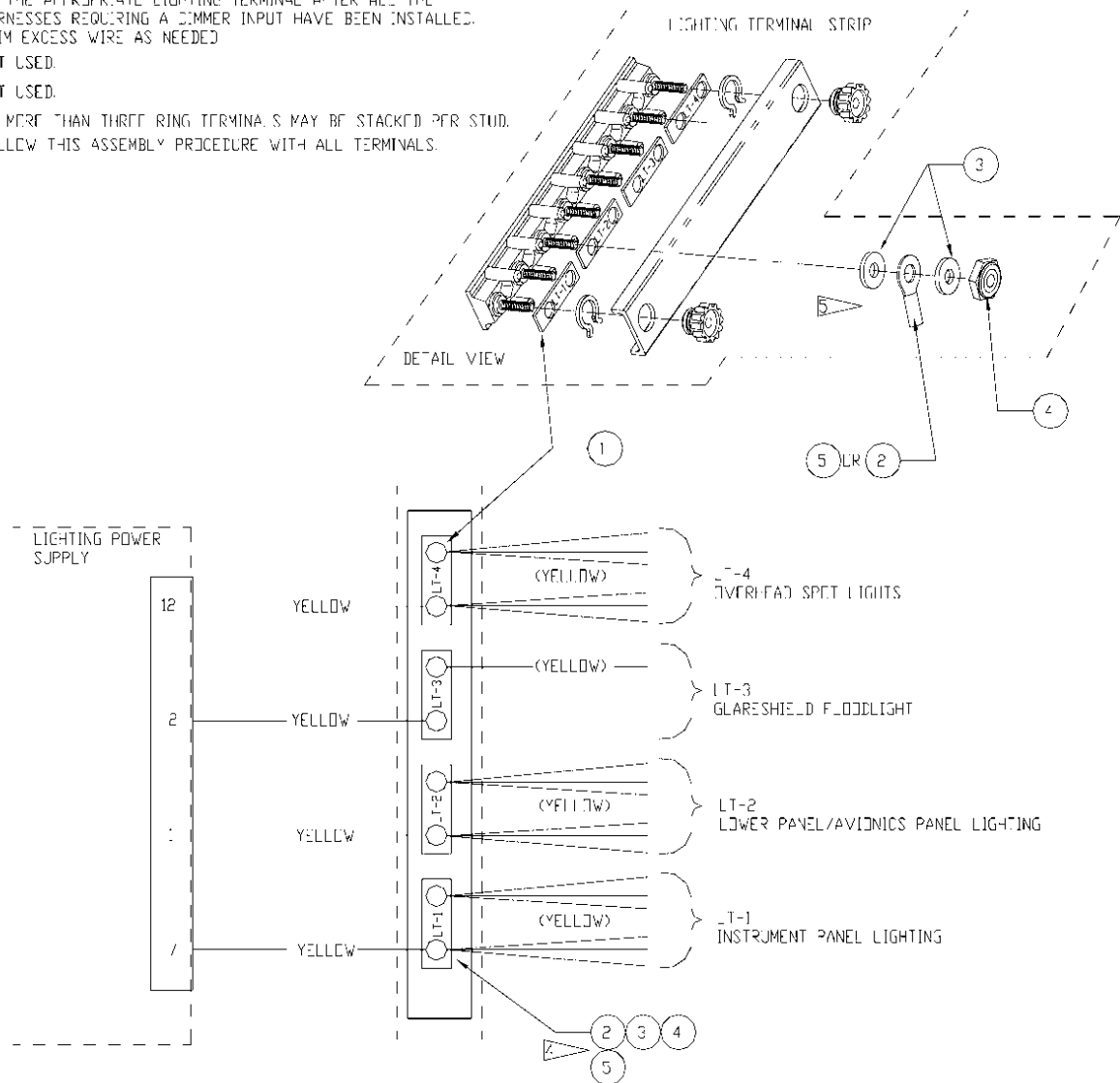
Detail 33 - 2 Overhead Wiring (LB53514100B) (1/2)



Detail 33 - 2 Overhead Wiring (2/2)

NOTES:

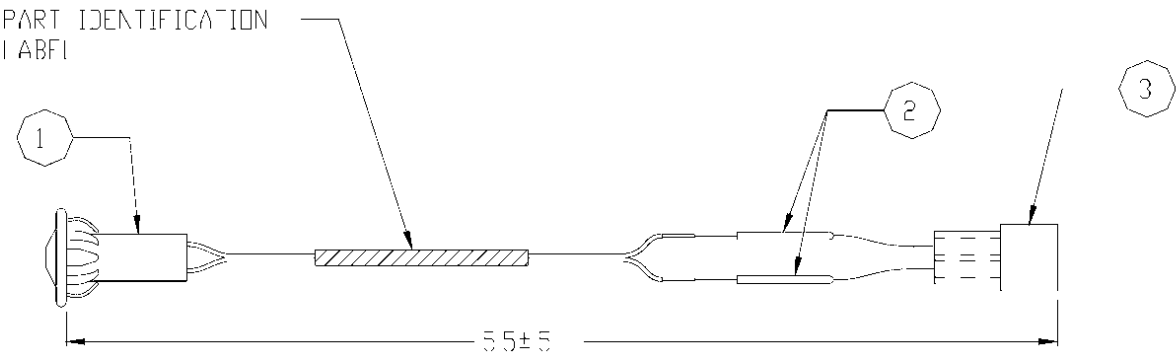
1. TERMINATE YELLOW DIMMER WIRES LABELED LT-1, LT-2, ETC. TO THE APPROPRIATE LIGHTING TERMINAL AFTER ALL THE HARNESSES REQUIRING A DIMMER INPUT HAVE BEEN INSTALLED. TRIM EXCESS WIRE AS NEEDED.
2. NOT USED.
3. NOT USED.
4. NO MORE THAN THREE RING TERMINALS MAY BE STACKED PER STUD.
5. FOLLOW THIS ASSEMBLY PROCEDURE WITH ALL TERMINALS.



5	AR 3658	TERMINAL RING, 16-14 AWG, #6 STUD, BLUE, AMP
4	B MS20364-63PA	NUT, SELF-LOCKING, 1-IN, 250°F, NON-MAGNETIC INSERT, 6-32
3	15 NAS1149N616P	WASHER, THIN #6, (AN950-61)
2	AR 3652	TERMINAL RING, 22-16 AWG, #6 STUD, RED, AMP
1	4 LA53514801	BUSS BAR
ITEM QTY PART NUMBER		DESCRIPTION or MATERIAL
PARTS LIST		

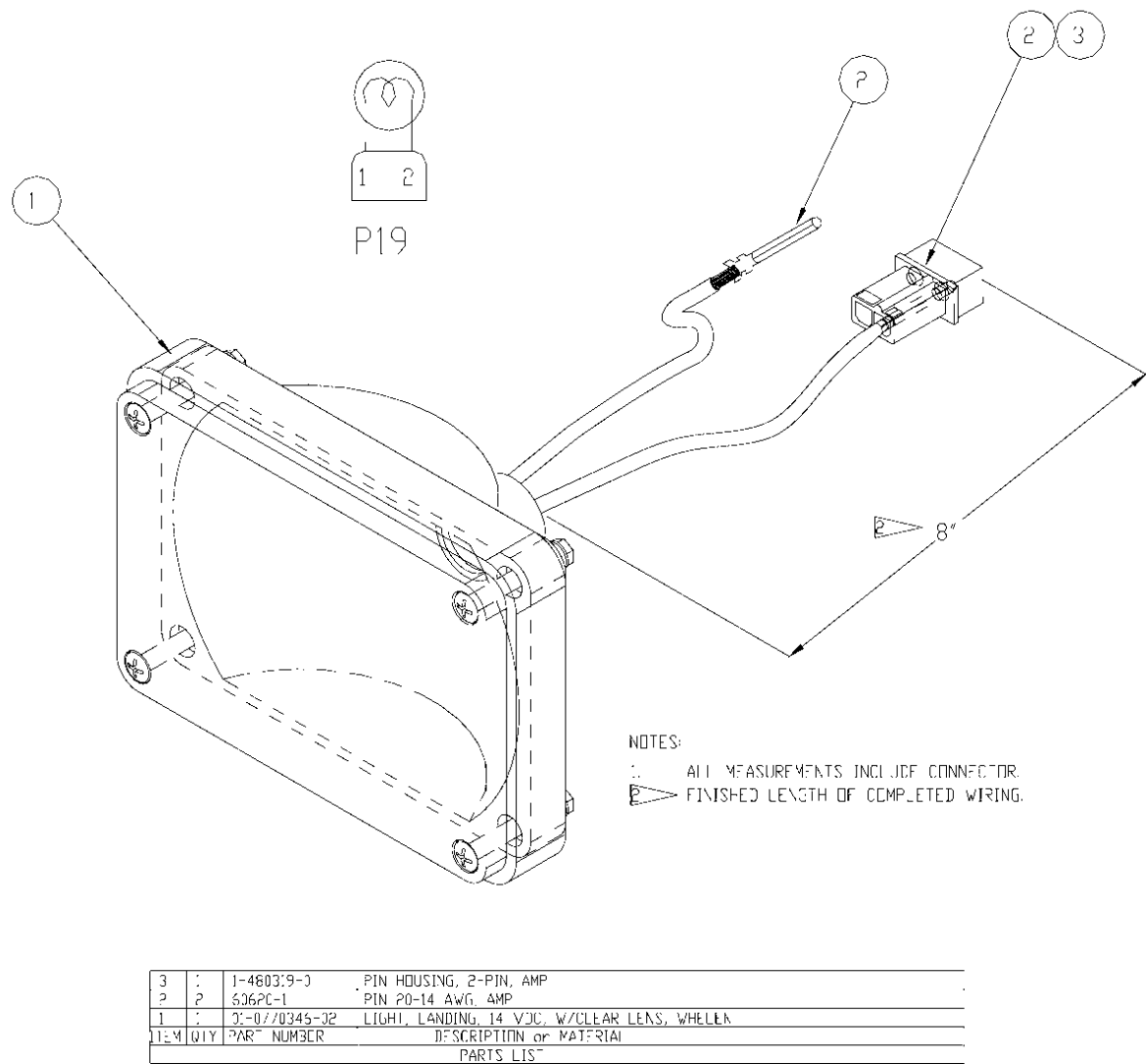
Detail 33 - 3 Wiring for Lighting Terminal Strip (LB53514800-2) (1/1)

- NOTES:
- 1. ALL WIRE WILL BE MIL-W-22759/16 NON-SHIELDED AND MIL-C-27500/18 SHIELDED, EXCEPT AS NOTED. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
 - 2. NOT USED.
 - 3. ALL MEASUREMENTS INCLUDE CONNECTOR.

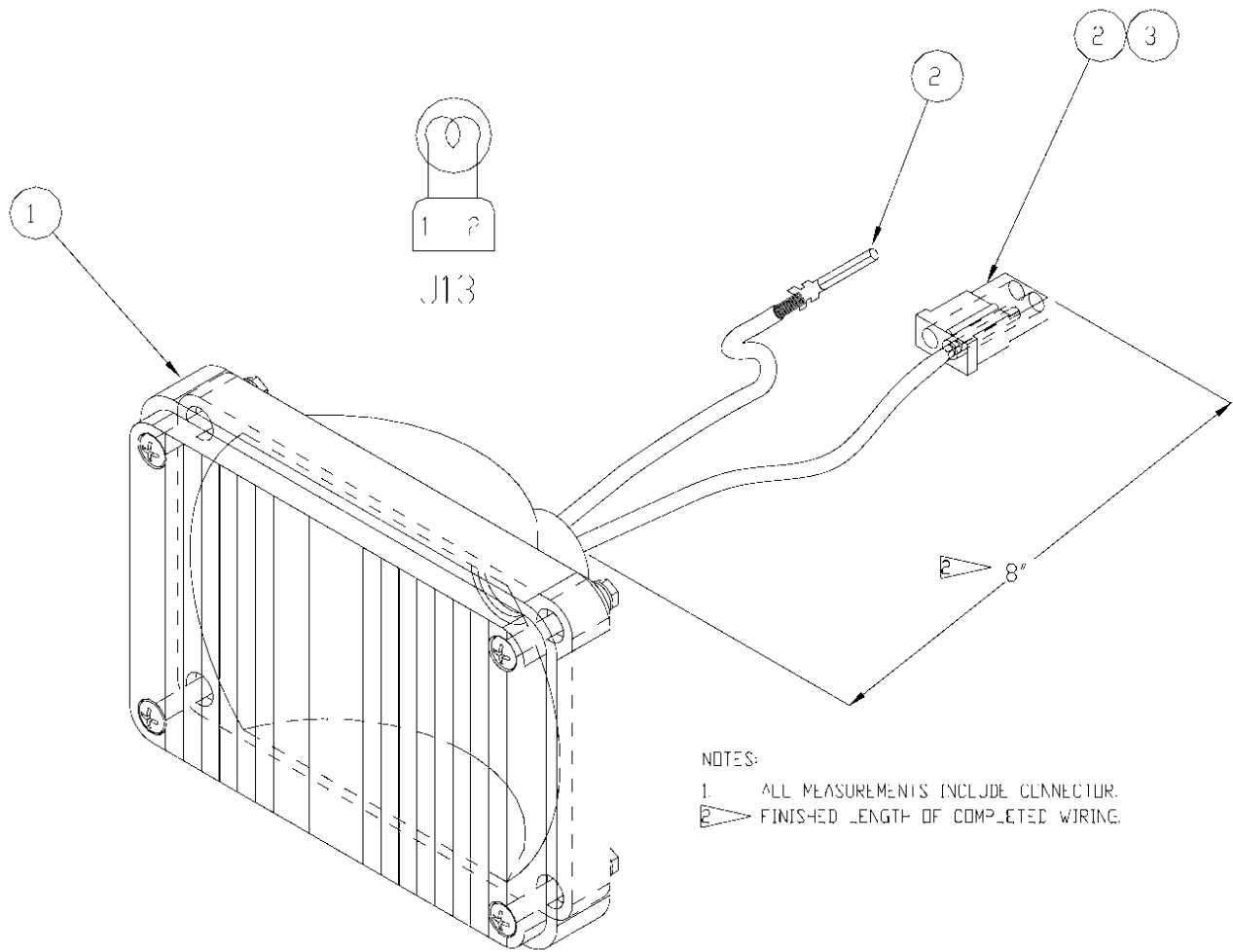


3	1	770340-1	PUG HOUSING, 2-PIN, FREE HANGING	AMP
2	2	794017-1	PIN, 24-18 AWG	AMP
1	1	2990P4-12V	INCANDESCENT INDICATOR LIGHT, 1/2" MOUNTING HOLE, WHITE	IDI
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL	REFERENCE
PARTS LIST				

Detail 33 - 4 Step Light (LA53570005B) (1/1)

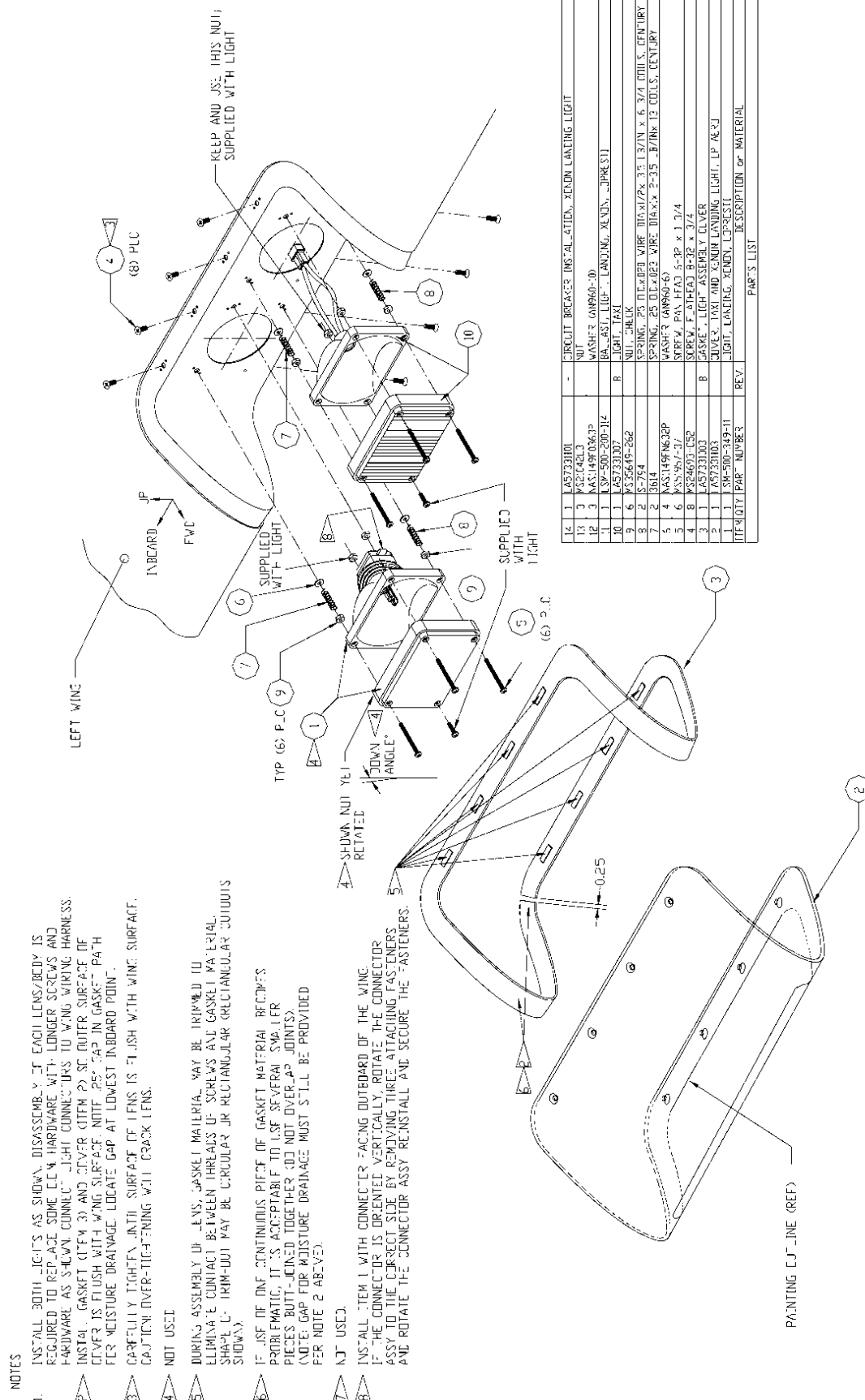


Detail 33 - 5 Whelen Landing Light and Wiring (LA57331005B) (1/1)



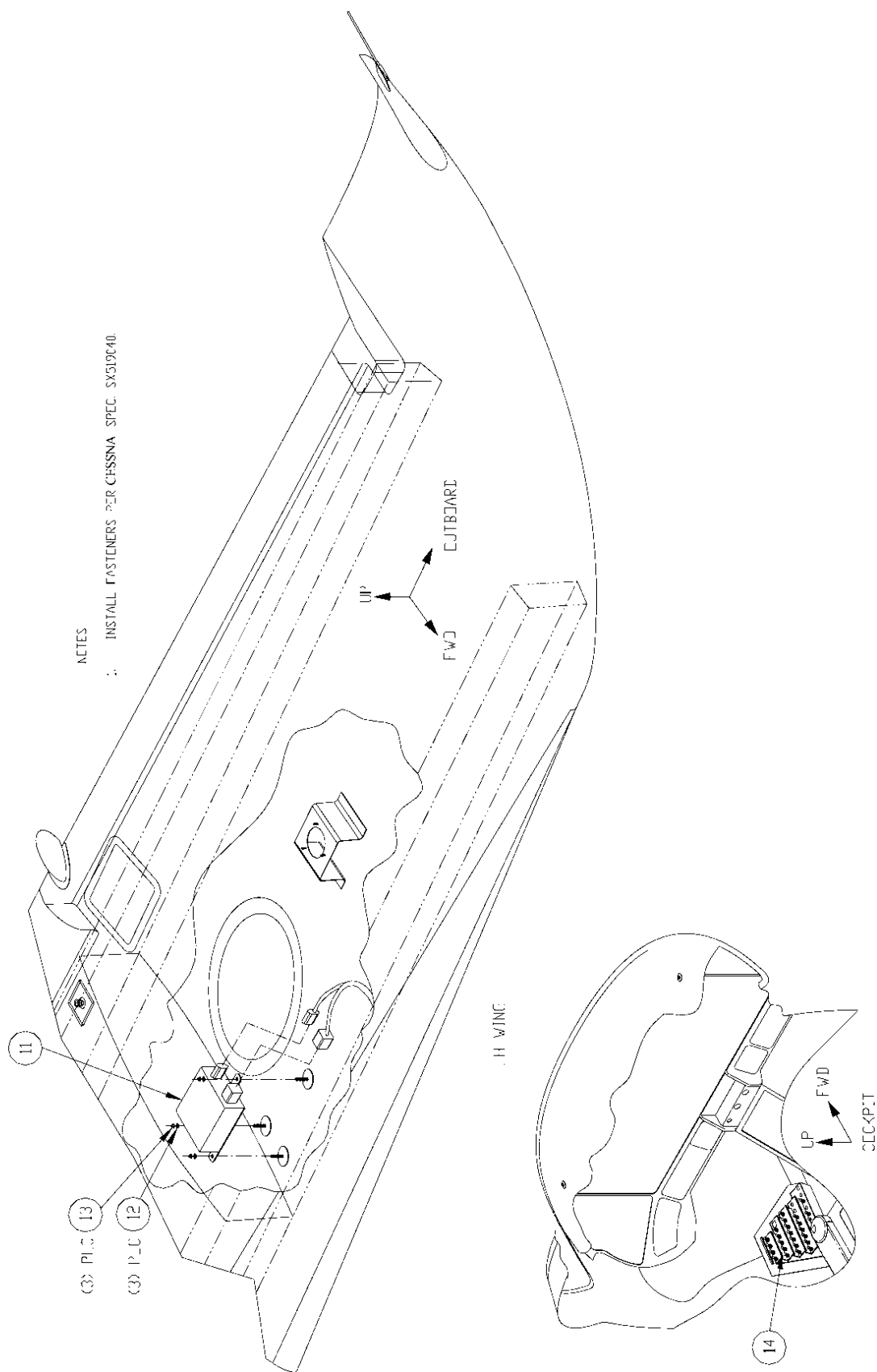
3	1	1-480318-2	SOCKET HOUSING, 2 PIN, AMP
2	2	50619-1	SOCKET 20-14 AWG, AMP
1	1	0770346-04	LIGHT, TAXI, 14 VDC, W/ OPTIC LLNS, WHELEN
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

Detail 33 - 6 Whelen Taxi Light and Wiring (LA57331007B) (1/1)

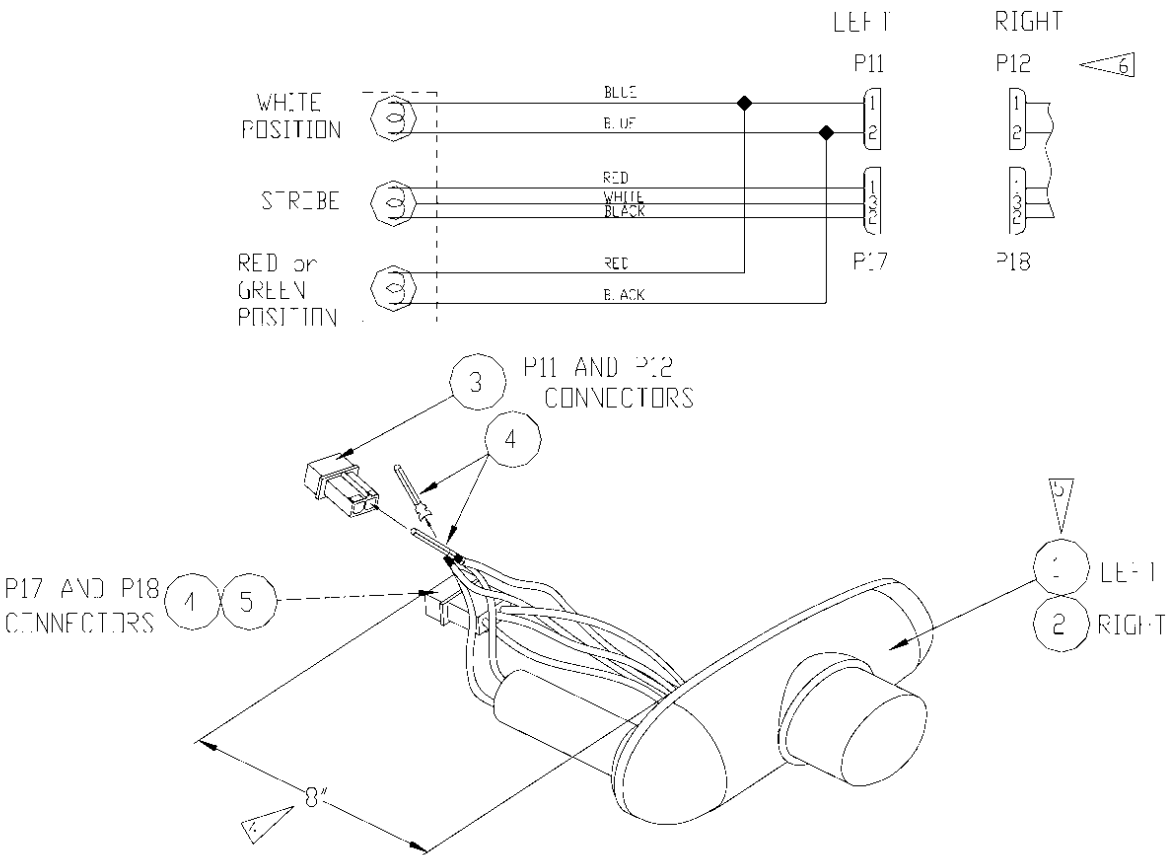


REV	QTY	PAR	NUMBER	DESCRIPTION OR MATERIAL
1	1	1	338-500-349-11	JOINT, LANTING, XENDU, 2P-20511
2	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
3	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
4	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
5	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
6	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
7	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
8	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
9	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
10	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
11	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
12	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
13	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511
14	1	1	457331003	JOINT, LANTING, XENDU, 2P-20511

Detail 33 - 7 Xenon Landing and Taxi Light Assembly (LA57331100A1) (1/2)



Detail 33 - 7 Xenon Landing and Taxi Light Assembly (2/2)



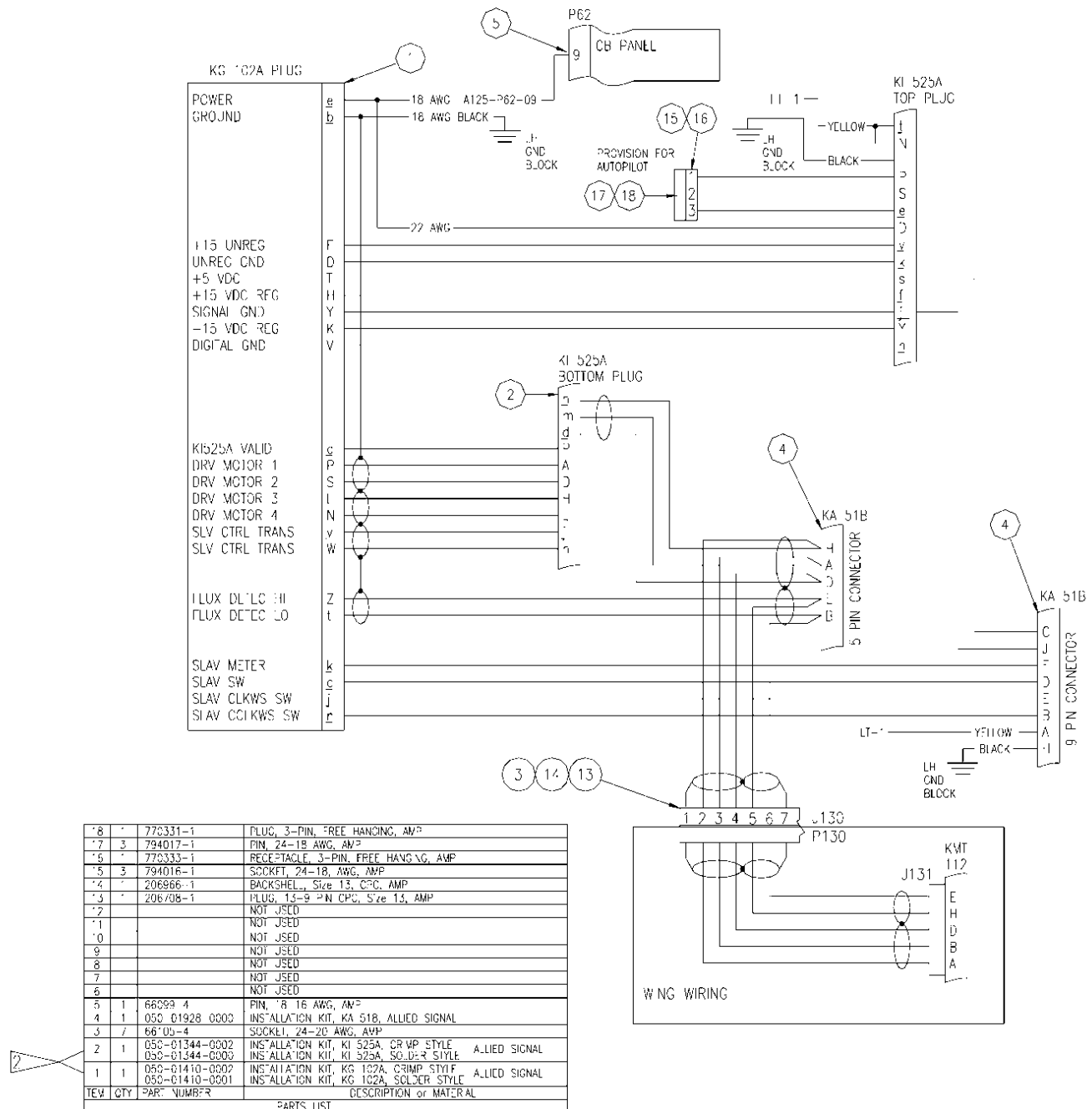
- NOTES:
- 1. NOT USED.
 - 2. NOT USED.
 - 3. ALL MEASUREMENTS INCLUDE CONNECTOR.
 - 4. CRIMP CONNECTORS TO LONGEST LENGTH FROM VENDOR OR TRIM TO CREATE A PIGTAIL NOT TO EXCEED 8".
 - 5. LEFT POSITION LIGHT ASSY AND RIGHT POSITION LIGHT ASSY ARE IDENTICAL EXCEPT FOR LENS COVERS.
 - 6. WIRING FOR LEFT POSITION LIGHT ASSY AND RIGHT POSITION LIGHT ASSY IS IDENTICAL EXCEPT FOR CONNECTOR LABELS, AS SHOWN

	LEFT	RIGHT		
5	1		1-480305-0	PIN HOUSING, 3 PIN, AYP
4	5	5	60620-1	PIN 20-14 AWG, AMP
3	1		1-480319-0	PIN HOUSING, 2 PIN, AYP
2		1	A600PG-14	WING TIP STRIKE/POSITION LIGHT ASSEMBLY (GREEN), WHEEL
1			A600PR-14	WING TIP STRIKE/POSITION LIGHT ASSEMBLY (RED), WHEEL
ITEM	QTY	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST				

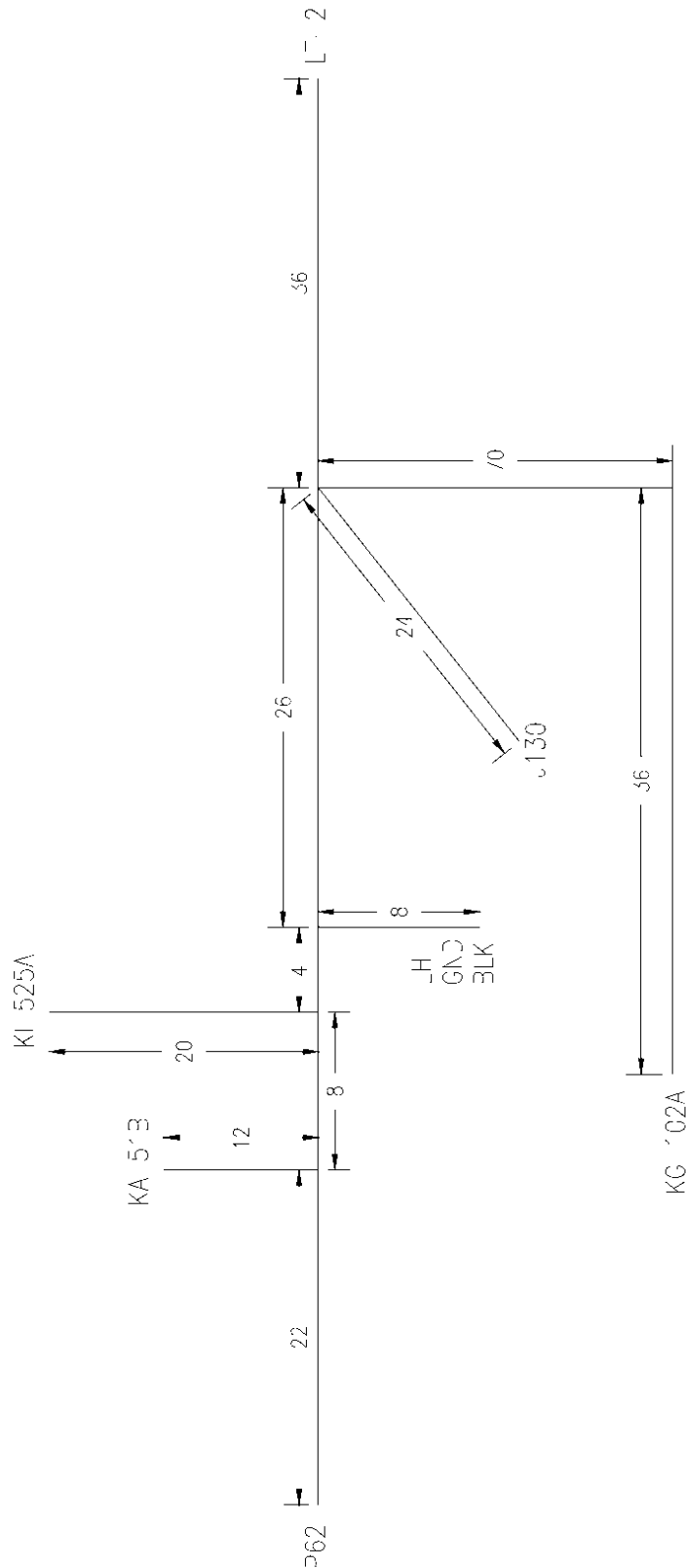
Detail 33 - 8 Position Light and Wiring (LA57332003B) (1/1)

NOTES:

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2.  CRIMP STYLE CONNECTORS, REF. P/N X-002 IS THE PREFERRED OPTION.
3. THIS HARNESS WILL BE USED WITH THE GARMIN RADIO PACKAGE OPTION. USE DETERMINED PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.



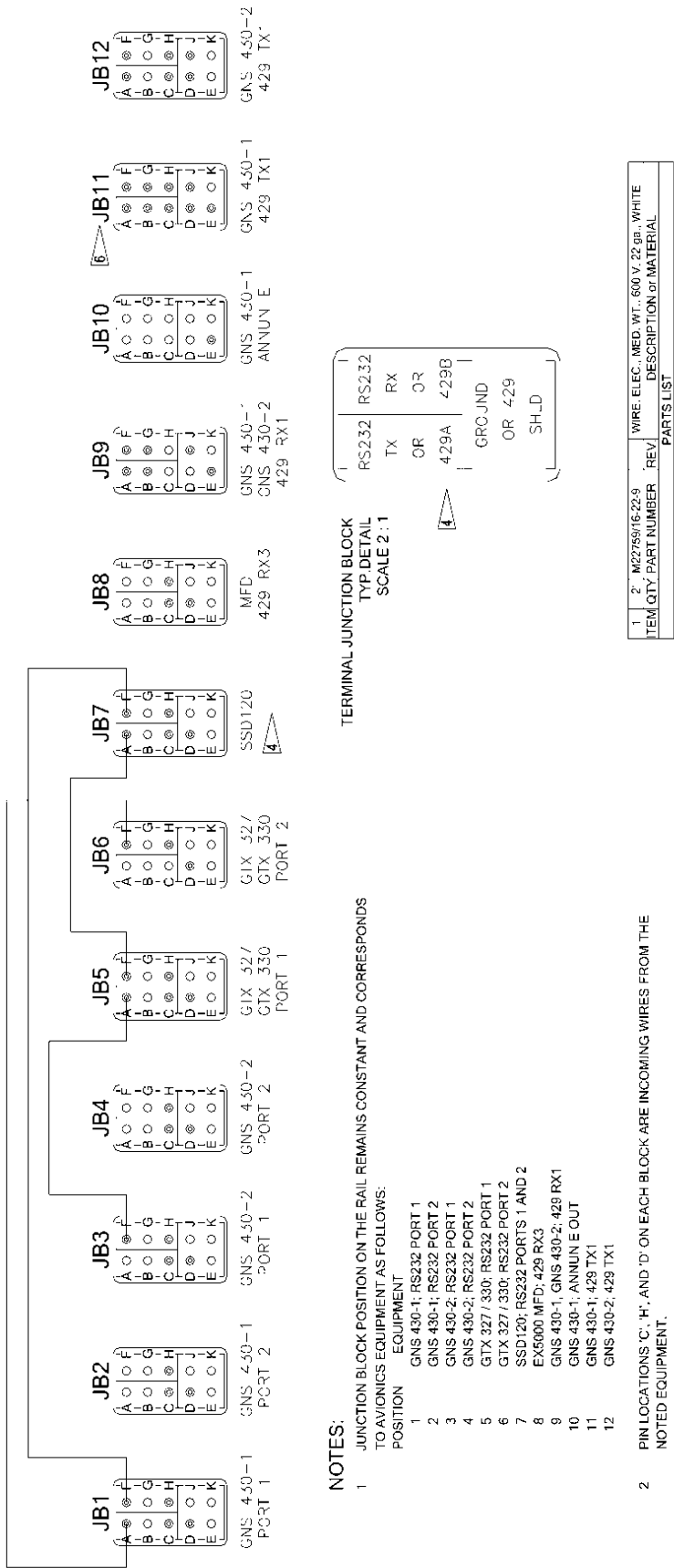
Detail 34 - 1 Horizontal Situation Indicator (HSI) (Garmin) (LB53342203-) (1/2)



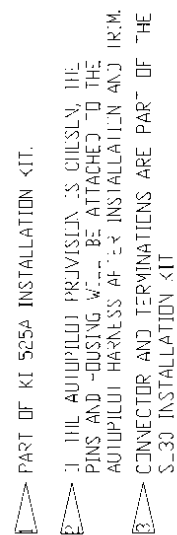
NOTES:

1. ALL WIRE SIZE S 22 AWG UNLESS OTHERWISE SPECIFIED.
2. ALL MEASUREMENTS INCLUDE CONNECTOR.
3. ANTENNA COAX CABLES MAY BE ROUTED SEPARATELY.

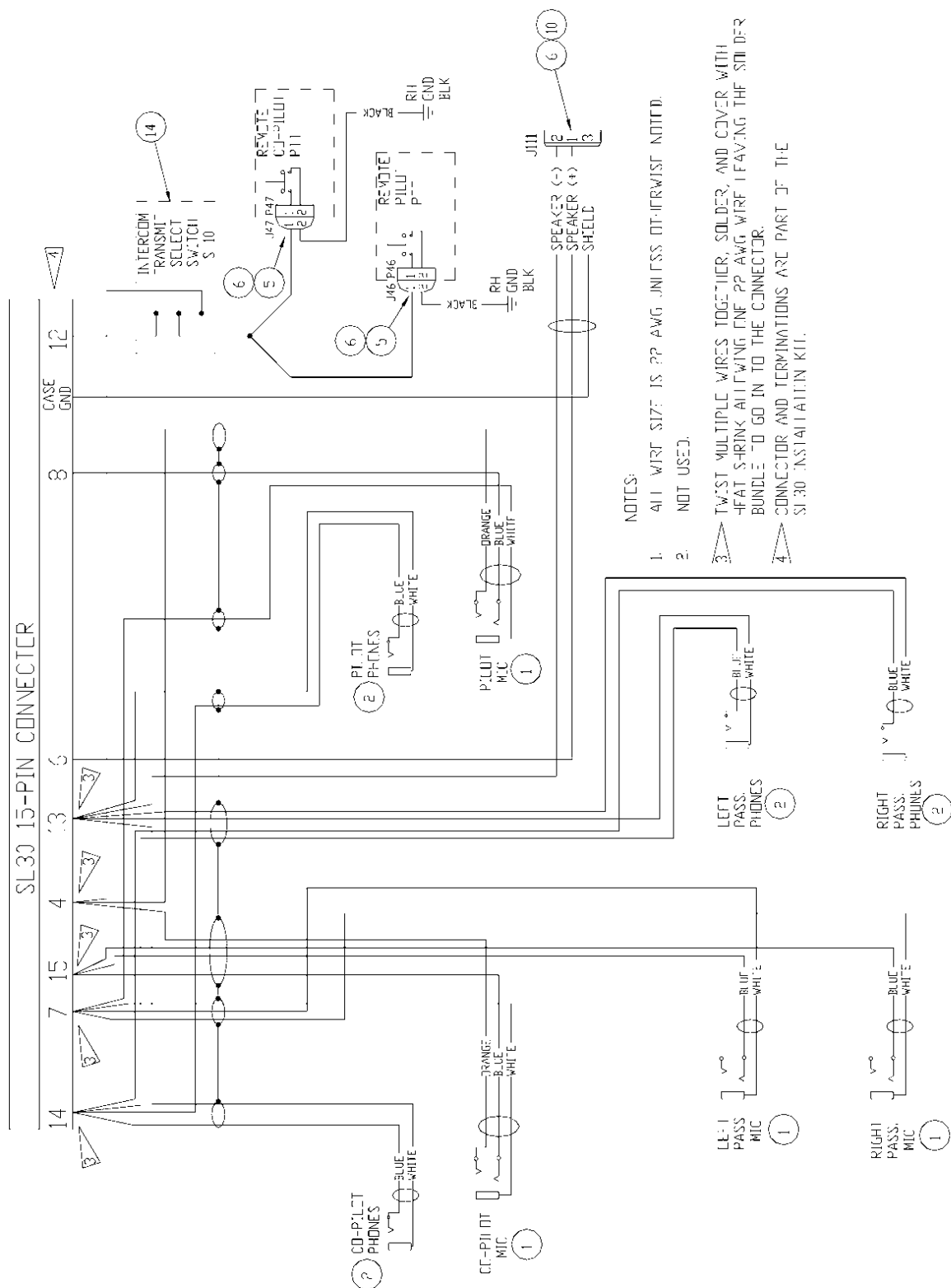
Detail 34 - 1 Horizontal Situation Indicator (HSI) (Garmin) (2/2)



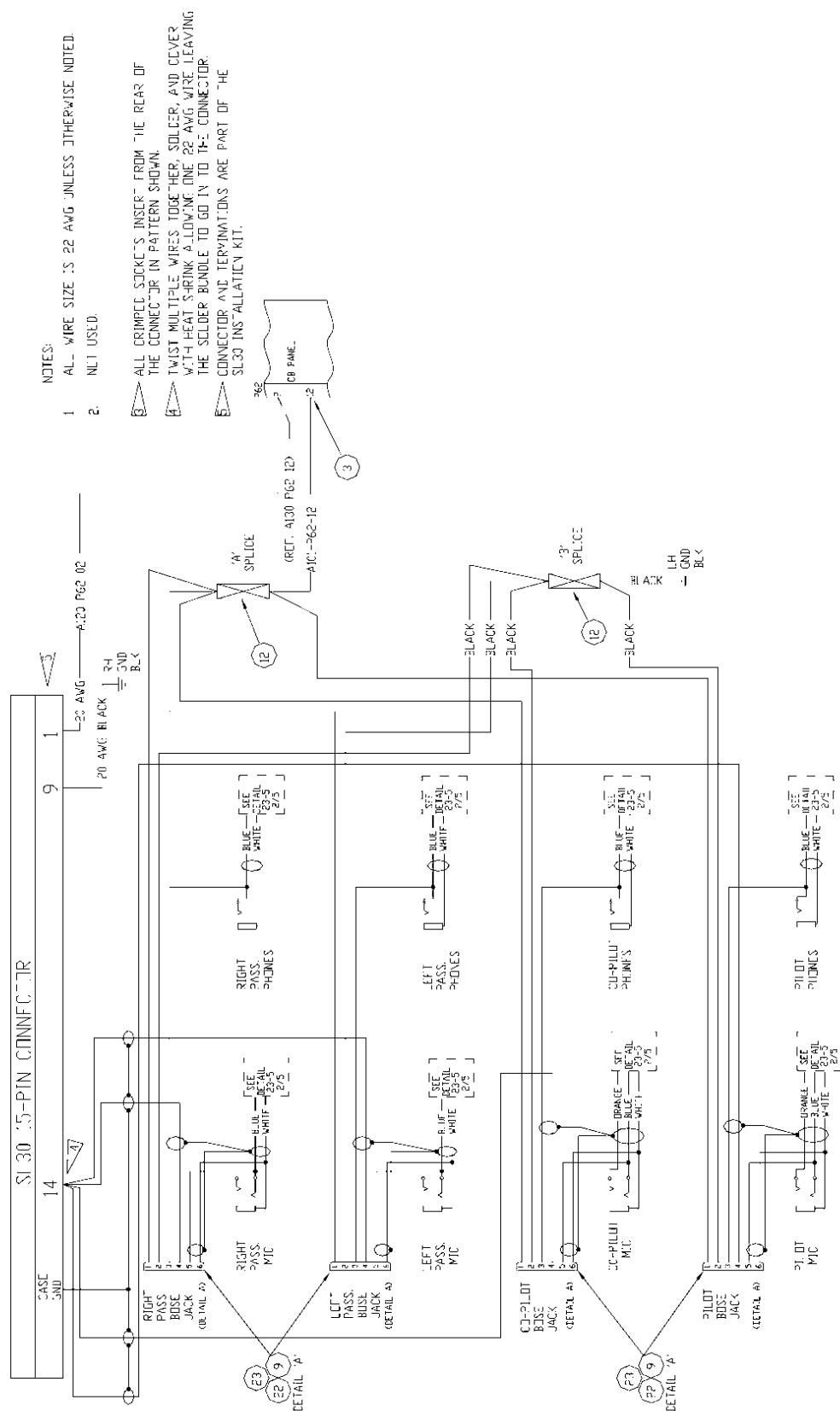
Detail 34 - 2 Terminal Junction Blocks Wiring (Garmin) (LB53343503A) (1/1)



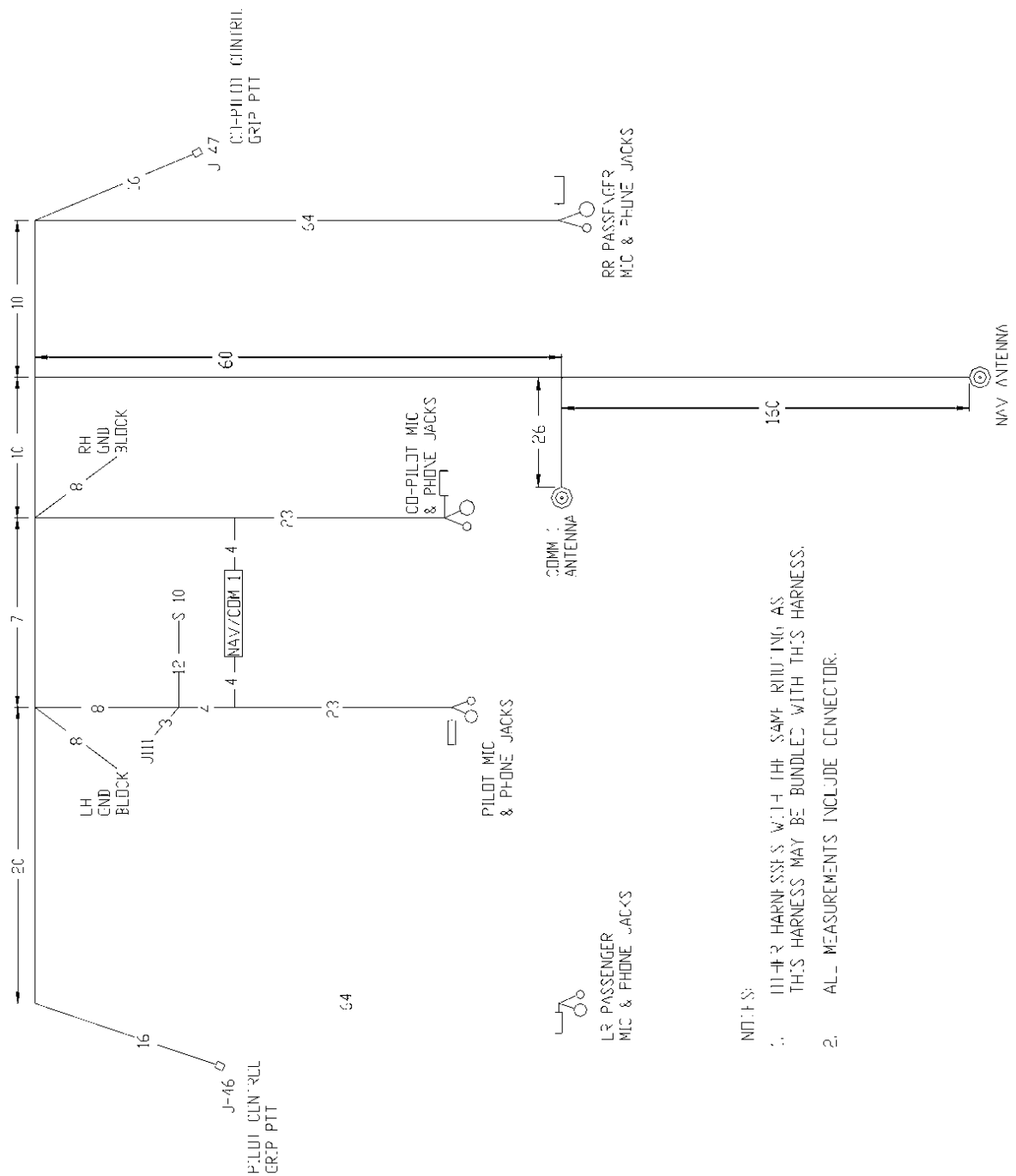
Detail 34 - 3 NAV/COM SL30 Basic Package Wiring (LA53344411-) (1/5)



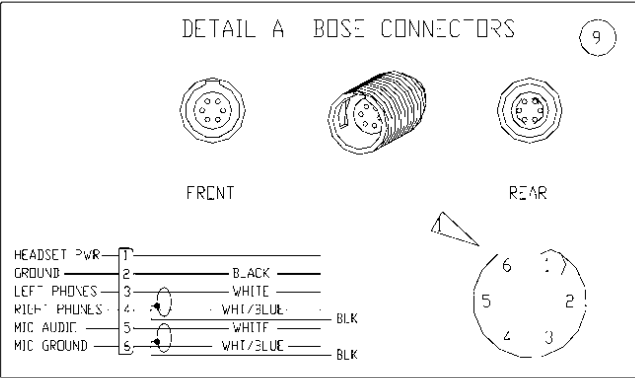
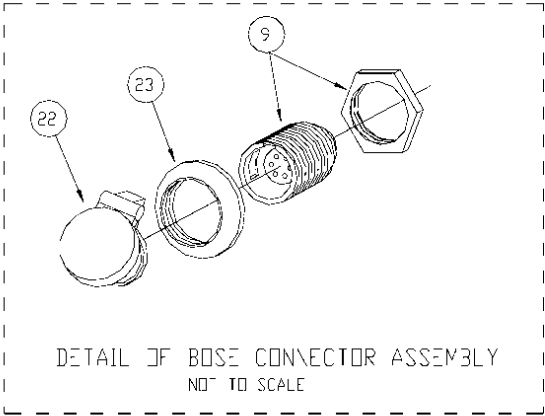
Detail 34 - 3 NAV/COM SL30 Basic Package Wiring (2/5)



Detail 34 - 3 NAV/COM SL30 Basic Package Wiring (3/5)



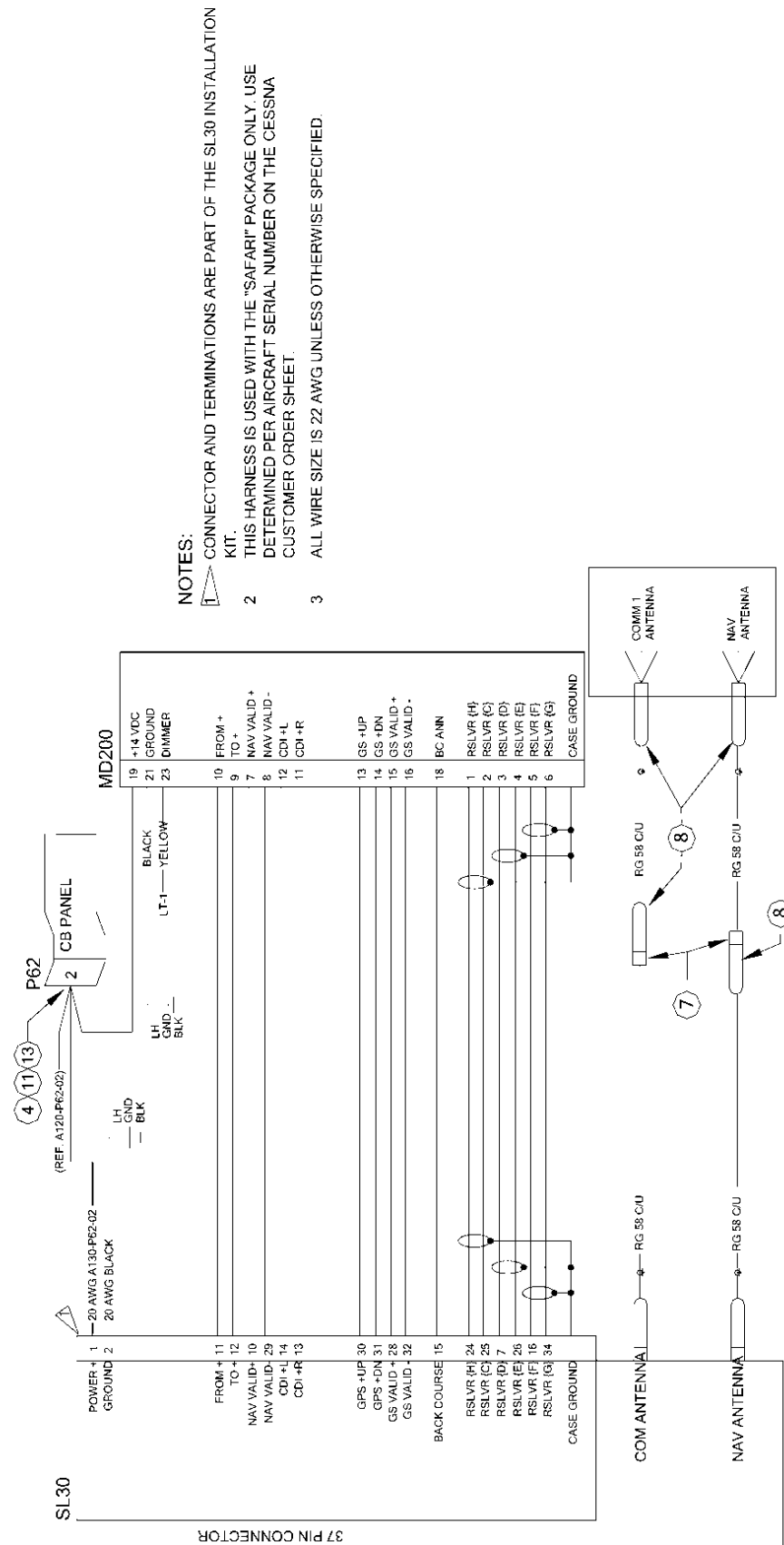
Detail 34 - 3 NAV/COM SL30 Basic Package Wiring (4/5)



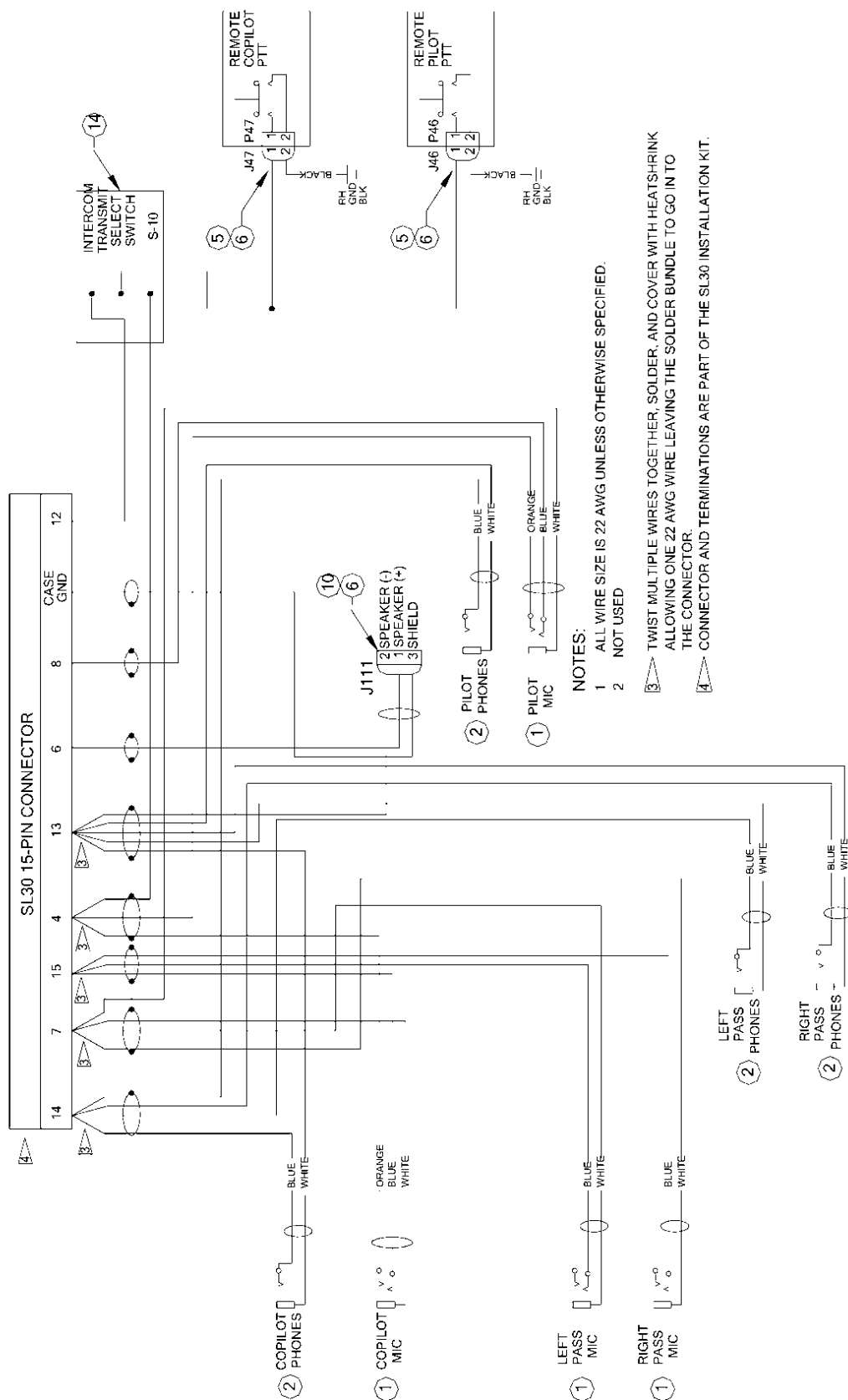
CONNECTOR AND TERMINATIONS ARE PART OF THE
SL30 INSTALLATION KIT.

27	9	794016-1	SOCKET, 24-18 AWG, AMP
26	9	794017-1	PIN, 24-18 AWG, AMP
25	1	770419-1	RECEPTACLE, 9 PIN FREE HANGING, AMP
24	1	770428-1	PLUG HOUSING, 9 PIN FREE HANGING, AMP
23	4	PKG 22 DUNI	CAP NUT, LEMO-USA
22	4	BRR PS 200 P7SN	CAP, LFMJ-USA
21			NOT USED
20			NOT USED
19			NOT USED
18			NOT USED
17			NOT USED
16			NOT USED
15			NOT USED
14	1	A101P3YZ0	SWITCH, SPDT, TGGLE, TYCC-ALCDSWICH
13			NOT USED
12			NOT USED
11	1	66399-4	PIN, 18-15 AWG, AMP
10			NOT USED
9	4	PKG 00 SNL MN	CONNECTOR KIT, LEMO-USA
8	4	225395-1	CONNECTOR, STRAIGHT BNC, R508, AMP
7			NOT USED
6	1	794016-1	SOCKET, 24-18 AWG, AMP
5	2	770342-1	RECEPTACLE, 2 PIN FREE HANGING, AMP
4			NOT USED
3	1	65103-4	PIN, 24-20 AWG, AMP
2	4	J-1034	PHONE JACK, SWITCHCRAFT
1	4	J-1033	MIC JACK, SWITCHCRAFT
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL PARTS LIST

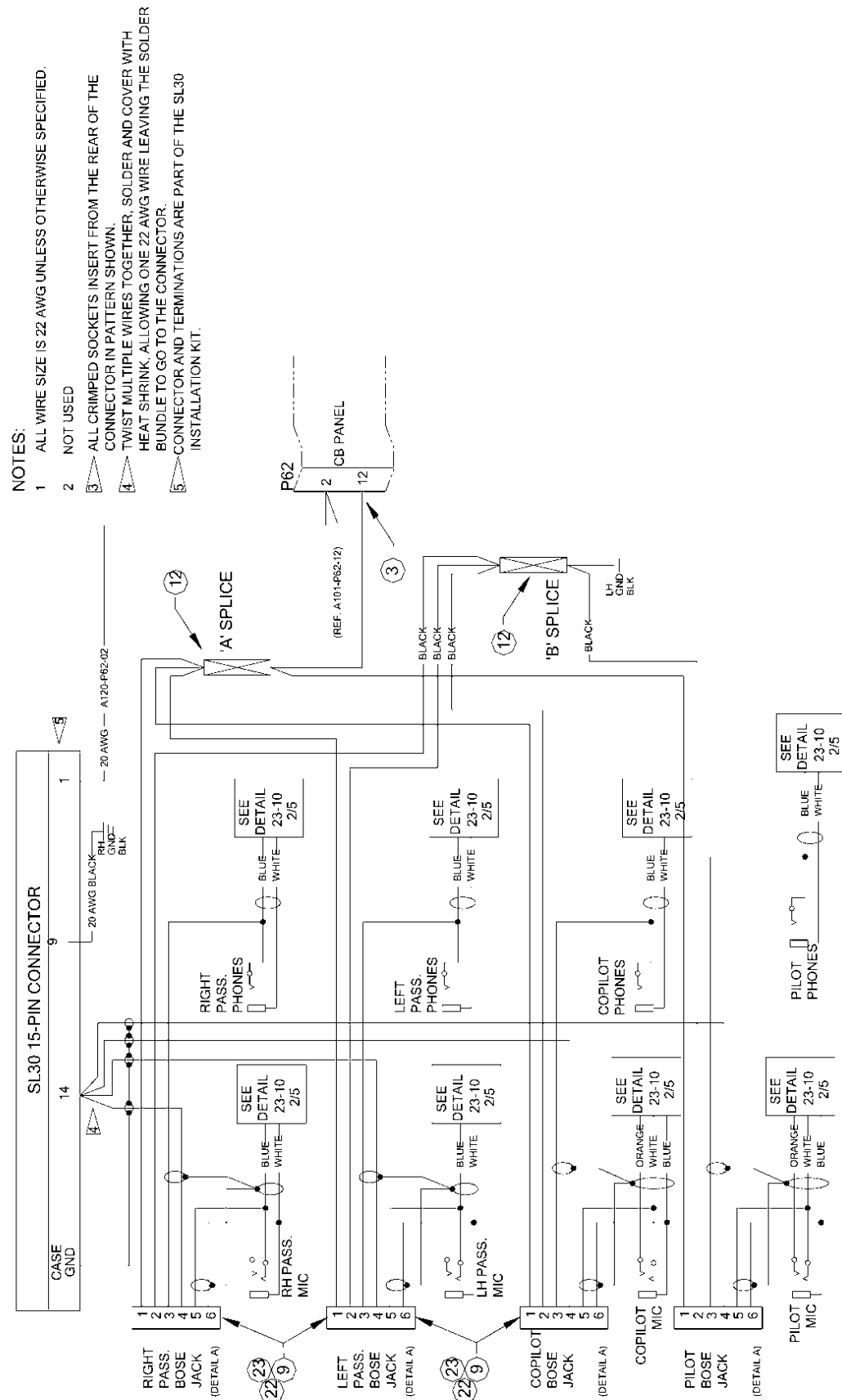
Detail 34 - 3 NAV/COM SL30 Basic Package Wiring (5/5)



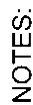
Detail 34 - 4 NAV/COM SL30 Wiring (LB53344411-) (1/5)



Detail 34 - 4 NAV/COM SL30 Wiring (2/5)



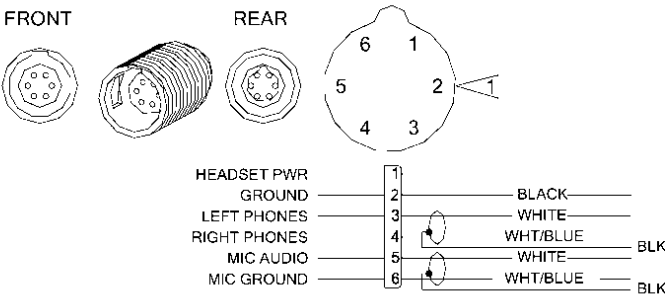
Detail 34 - 4 NAV/COM SL30 Wiring (3/5)



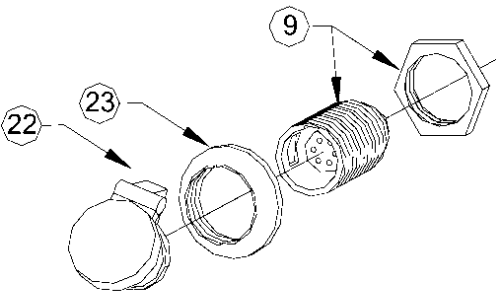
- 1 ALL MEASUREMENTS INCLUDE CONNECTOR.
- 2 OTHER HARNESSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED TOGETHER WITH THIS HARNESS.

Detail 34 - 4 NAV/COM SL30 Wiring (4/5)

DETAIL A
BOSE CONNECTORS



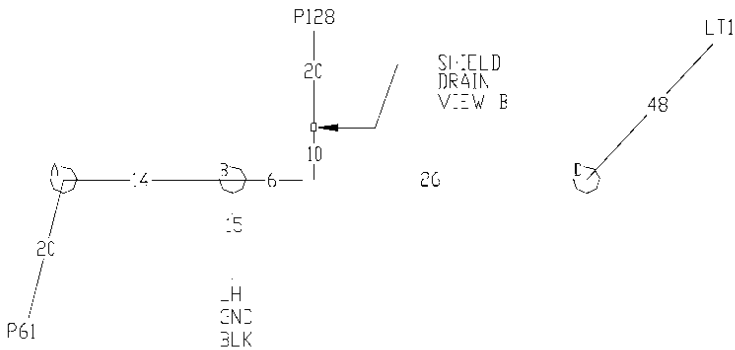
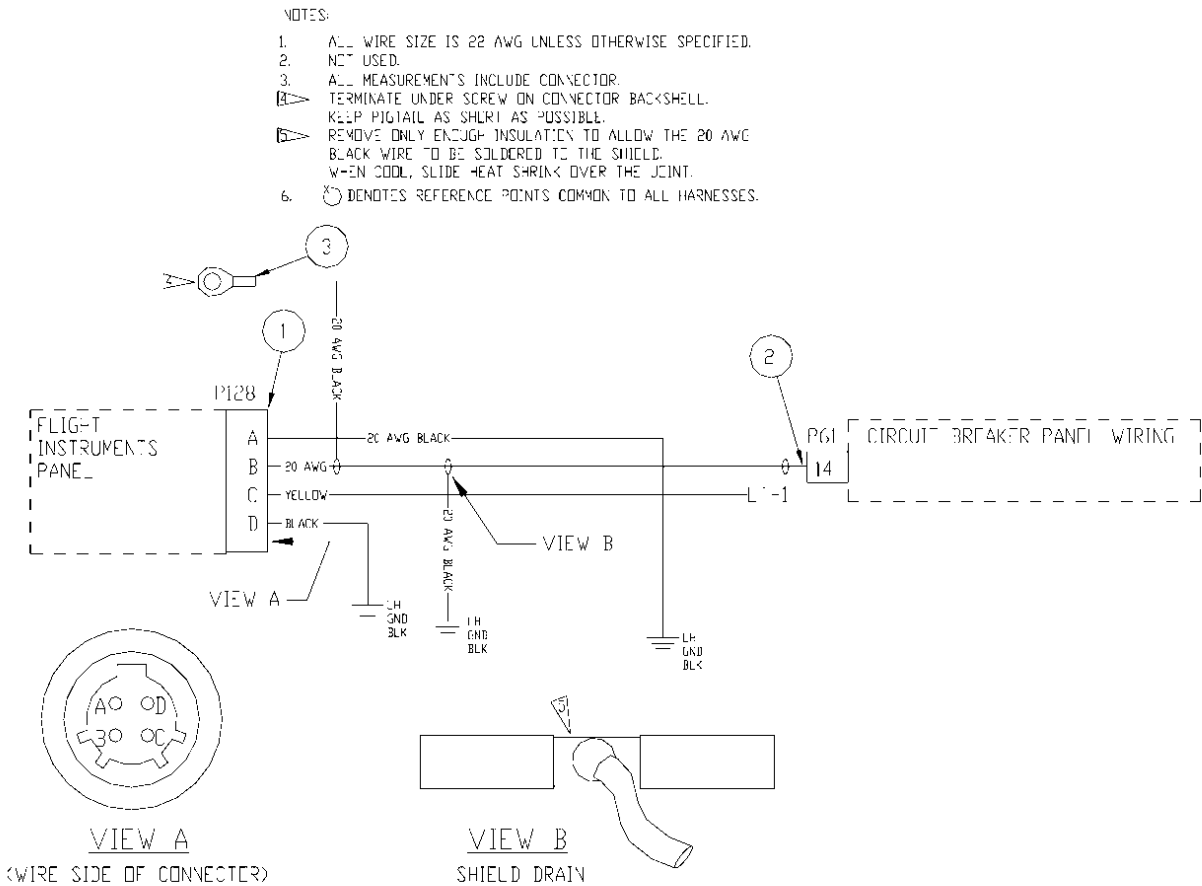
BOSE CONNECTOR ASSEMBLY DETAIL
NOT TO SCALE



1 ALL CRIMPED SOCKETS INSERT FROM THE REAR OF THE CONNECTOR IN PATTERN SHOWN.

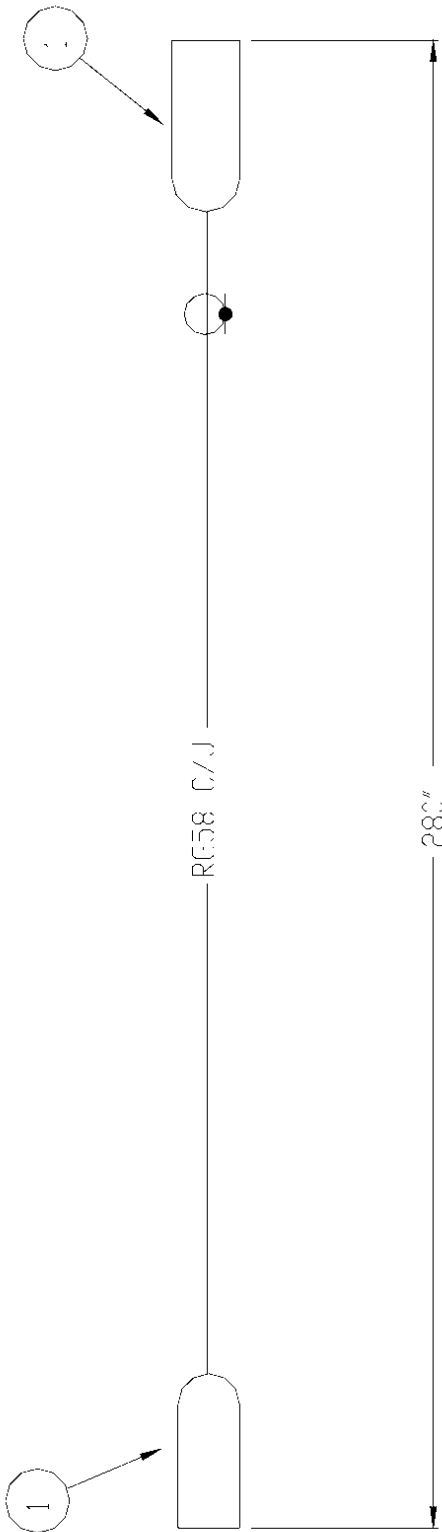
23	4	PKG. 22.DUN.1	CAP NUT, LEMO-USA
22	4	BRR. 2S. 200.PZSN	CAP, LEMP-USA
21			NOT USED
20			NOT USED
19			NOT USED
18			NOT USED
17			NOT USED
16			NOT USED
15			NOT USED
14	1	A101P3YZQ	SWITCH, SPDT, TOGGLE, TYCO-ALCOSWITCH
13	1	206070-1	BACKSHELL, SIZE 17, CPC, AMP
12	2	320559	SPLICE, PIDG, 22-18 AWG, AMP
11	1	66099-4	PIN, 18-16 AWG, AMP
10	2	770333-1	RECEPTACLE, 3-PIN, FREE HANGING, AMP
9	4	PKG. MO.6NL.MN	CONNECTOR KIT, LEMO-USA
8	4	225395-1	CONNECTOR, STRAIGHT, BNC, RG58, AMP
7	2	225396-1	CONNECTOR, STRAIGHT, BNS, RG58, AMP
6	10	794016-1	SOCKET, 24-18 AWG, AMP
5	2	770342-1	RECEPTACLE, 2 PIN, FREE HANGING, AMP
4	1	206036-3	RECEPTACLE, 17-16 PIN, CPC, FREE HANGING, AMP
3	1	66103-4	PIN, 24-20 AWG, AMP
2	4	JJ034	JACK, PHONE, STEREO, SWITCHCRAFT
1	4	JJ033	JACK, MIC, SWITCHCRAFT
ITEM QTY PART NUMBER			DESCRIPTION or MATERIAL
PARTS LIST			

Detail 34 - 4 NAV/COM SL30 Wiring (5/5)



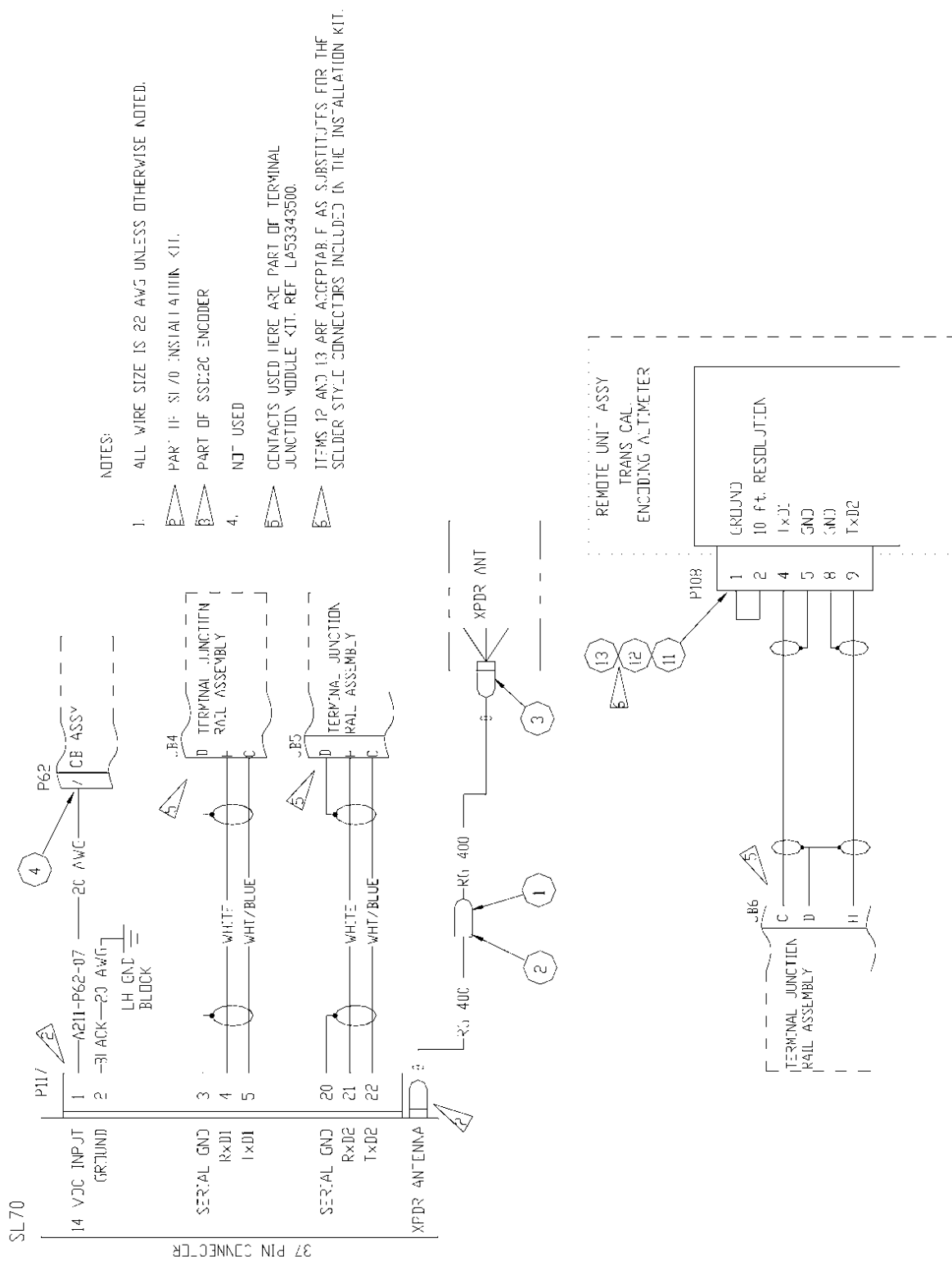
1	8	M22759/16-20-0	WIRE, ELEC., MED. WT., 600 V., 20 ga., BLACK
1	9	M22759/16-20-4	WIRE, ELEC., MED. WT., 600 V., 20 ga., YELLOW
1	5	M22759/16-20-0	WIRE, ELEC., MED. WT., 600 V., 20 ga., BLACK
1	6	M22750/18-20-1	CABLE, ELECTRIC, SHIELD, 20 ga., SINGLE CONDUCTOR
3	1	36152	TERMINAL, RING, 22-18 AWG, #6 STUD, RED, AMP
2	1	66103-4	PKT, 24-20 AWG, AMP
1	1	P106E-8-45(SR)	CONNECTOR, CIRCULAR, STRAIGHT PLUG/W/ ENVIRONMENT-RESISTANT STRAIN RELIEF, AMP-END.
ITEM QTY		PART NUMBER	REV. DESCRIPTION or MATERIAL
PARTS LIST			

Detail 34 - 5 Electric Artificial Horizon Wiring (LB53511405C1) (1/1)

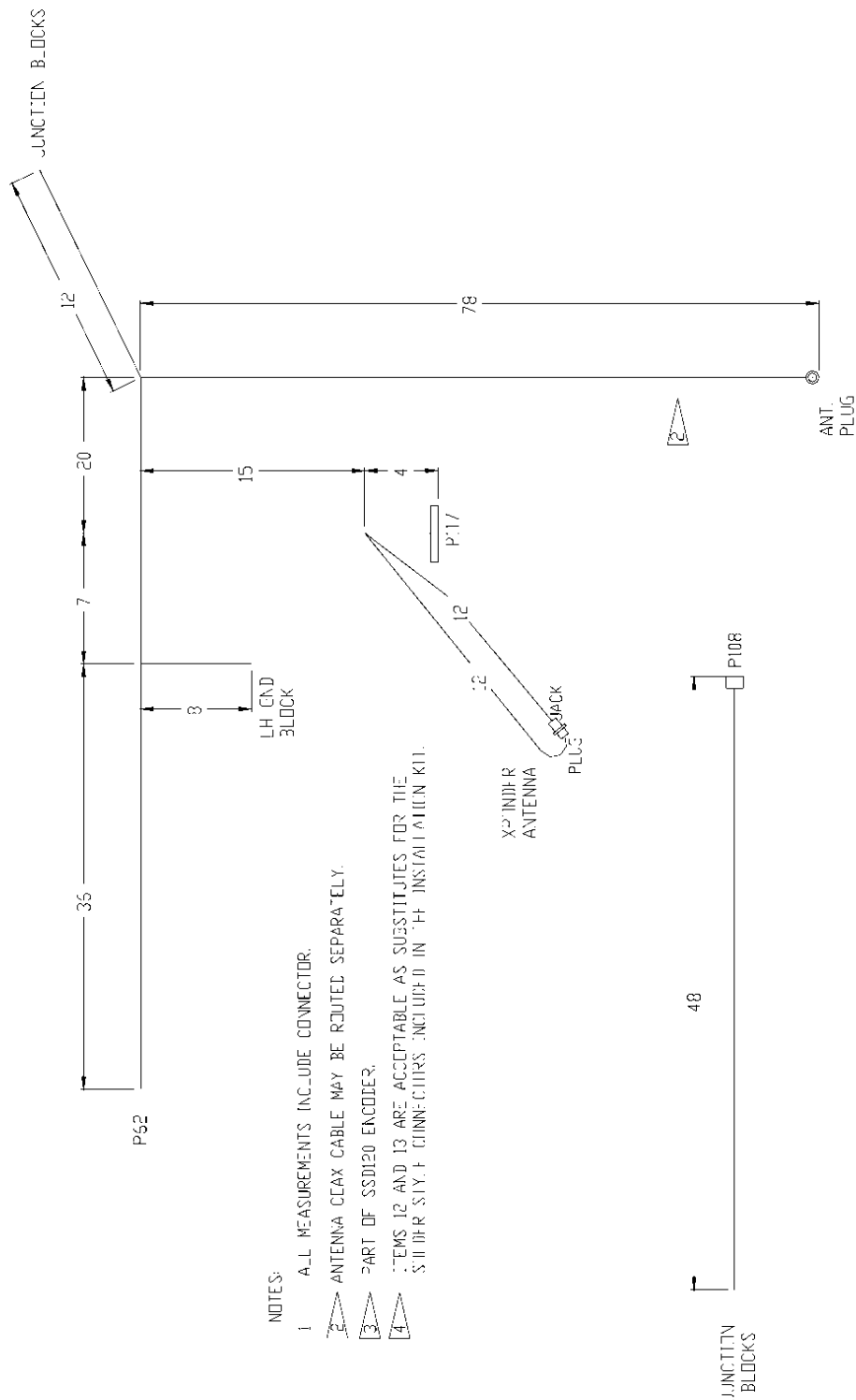


1	2	220390-1	CONNECTOR, STRAIGHT PLUG, BNC, RG58, AMP
ITEM QTY	PART NUMBER	DESCRIPTION or MATERIAL	PARTS LIST

Detail 34 - 6 NAV Antenna Cable Assembly (LA53344407B)



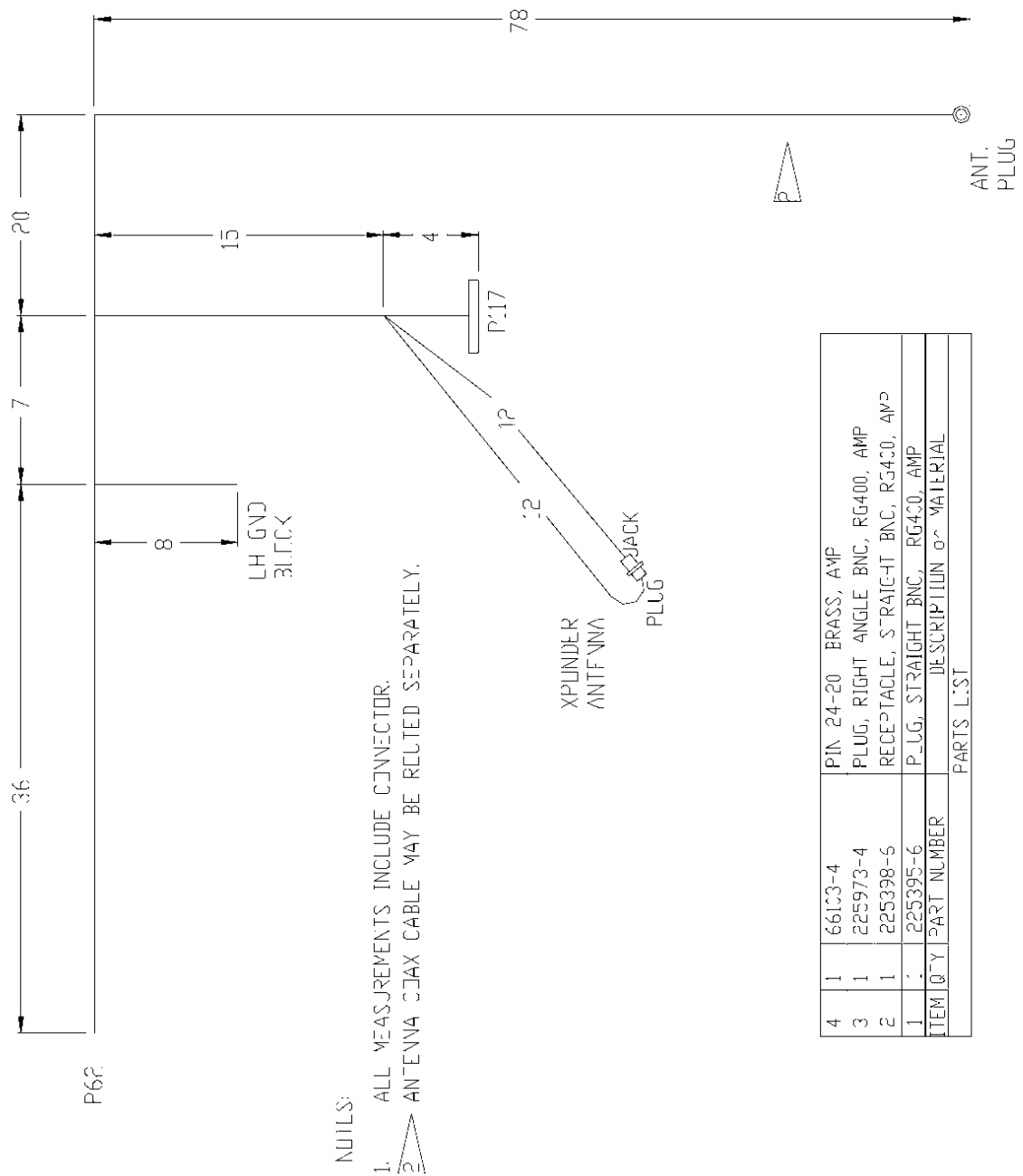
Detail 34 - 7 Transponder SL70/ALT ENC. Premium IFR Wiring (LA53344503D) (1/2)



13	5	205089-1	P.N. 24-20 AWG
12	1	20504-1	CONNECTOR, PLUG, 9-PIN, HD-20
11	1	SSDDP041U6	CONNECTOR TRIM INSTALL KIT, ALUMINUM, SPANCAI
10	1	NTJ US22	NTJ US22
9	9	NTJ US22	NTJ US22
8	9	NTJ US22	NTJ US22
7	1	NTJ US22	NTJ US22
6	1	NTJ US22	NTJ US22
5	1	NTJ US22	NTJ US22
4	1	66103-4	PIN 24-22 BRASS, AMP
3	1	225973-4	P.L.G. 23-GT ANGLE BNC, RG400, AMP
2	1	225398-6	RECEPTACLE, STRAIGHT BNC, RG400, AMP
1	1	225395-6	PLUG, STRAIGHT BNC, RG400, AMP
ITEM QTY	PART NUMBER	PARTS LIST	

Detail 34 - 7 Transponder SL70/ALT ENC. Premium IFR Wiring. (2/2)



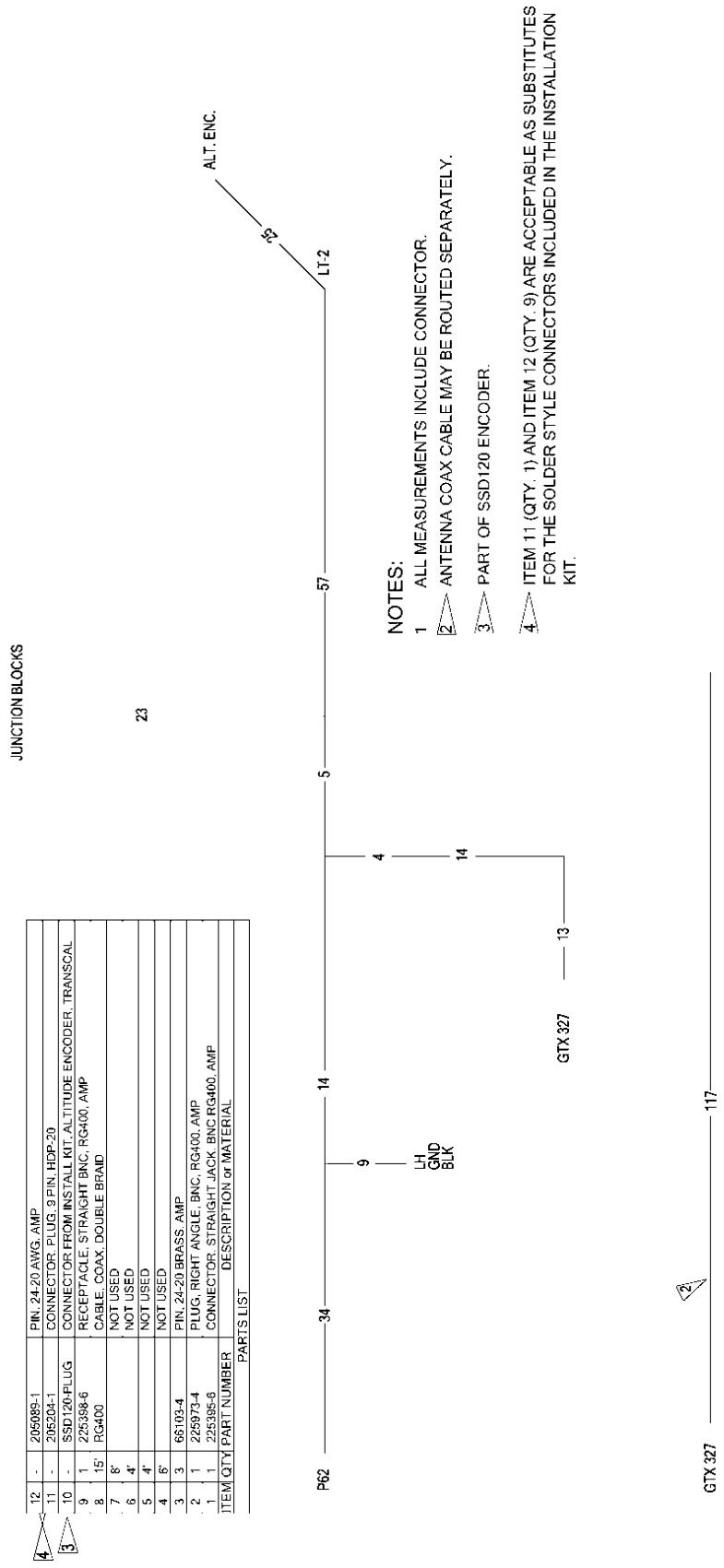


Detail 34 - 8 Transponder SL70/ALT ENC. Basic IFR Wiring (2/2)



- 1 ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
- 2 PART OF GTX 327 INSTALLATION KIT REF. 011-00228-00 INCLUDED WITH GTX 327 UNIT.
- 3 NOT USED.
- 4 NOT USED
- 5 CONTACTS USED HERE ARE PART OF TERMINAL JUNCTION MODULE KIT.

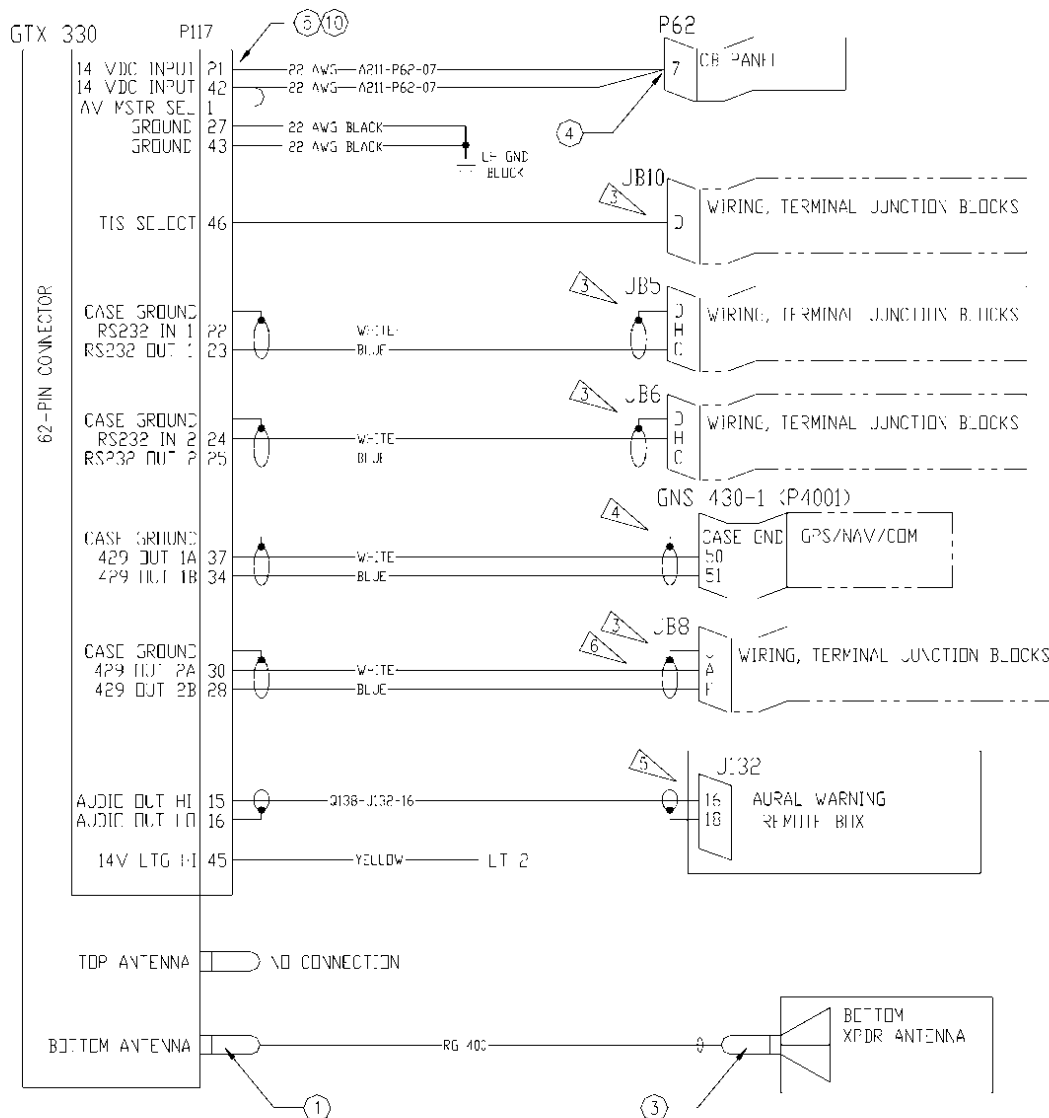
Detail 34 - 9 GTX 327 Transponder/ALT ENC Wiring (LB53344510-) (1/2)



Detail 34 - 9 GTX 327 transponder/ALT ENC Wiring (2/2)

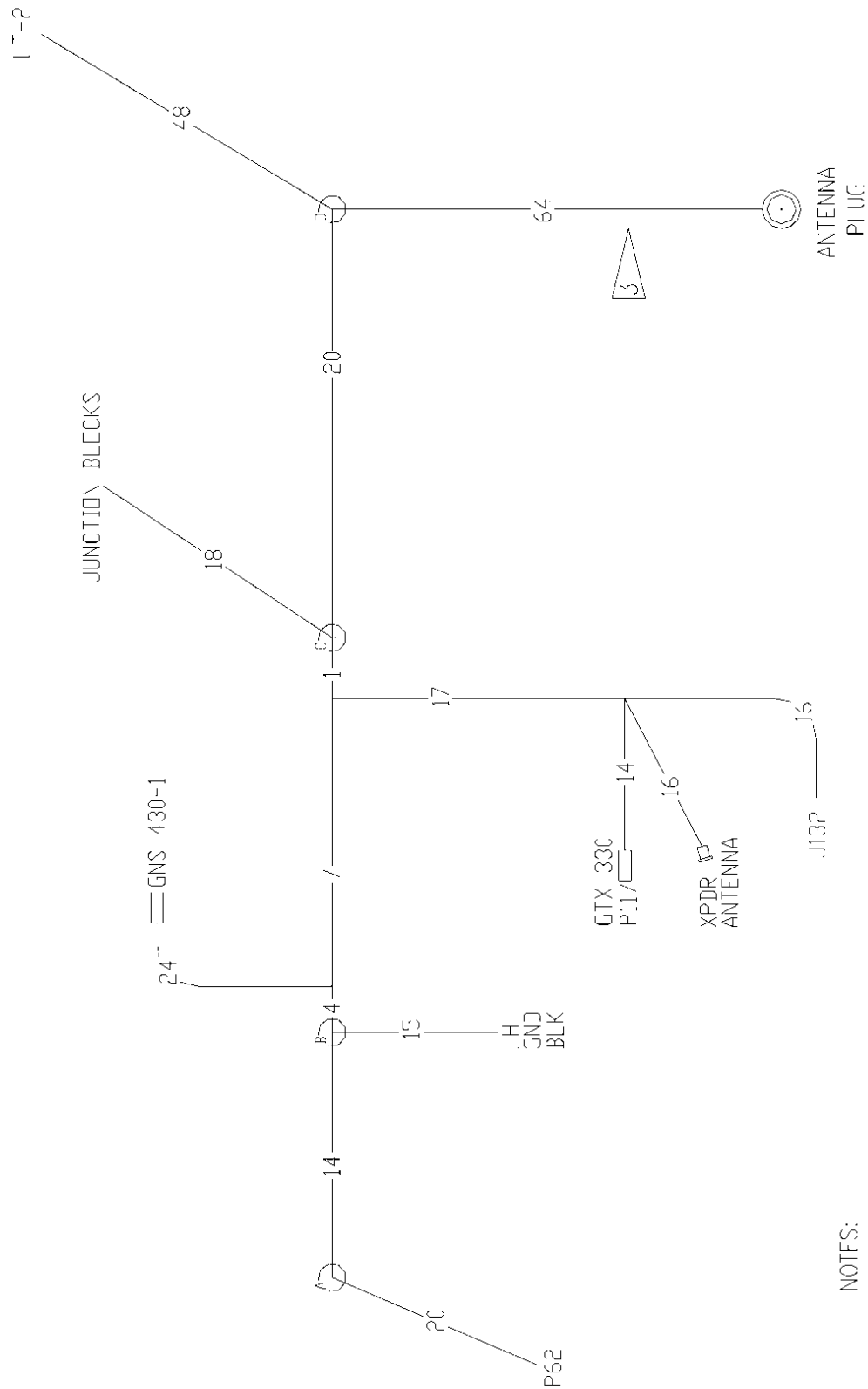
NOTES:

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2. NOT USED.
3. CONTACTS USED ARE PART OF TERMINAL JUNCTION MODULE KIT.
4. TERMINALS ARE PART OF GNS 430 CONNECTOR KIT.
5. THESE WIRES WILL BE TERMINATED IN A LATER ASSEMBLY.
6. THIS WIRING CONNECTION TO JB8 IS REQUIRED IF GTX 330 IS SELECTED FOR TRAFFIC DISPLAY ON EX5000 MFD. IF OTHER TRAFFIC SYSTEM IS SELECTED (E.G. IAS OR CAS) FOR DISPLAY ON THE MFD, CAP AND STOW THIS WIRE END NEAR JB8 JUNCTION BLOCK. USE DETERMINED PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.



12	9'	M22759/16-22-4	WIRE, ELEC., MFD. WT., 600 V., 22 ga., YELLOW
11			NOT USED.
10	1	011-00582-00	BACK PLATE, GTX 330 TRANSPONDER, GARMIN
9	3'	M22750/16-22-1	CABLE, ELEC., SHIELDED, 22 ga., SINGLE CONDUCTOR
8	20'	M27500/18-22-2	CABLE, ELEC., SHIELDED, 22 ga., TWO CONDUCTOR
7	18'	M22759/16-20-9	WIRE, ELEC., MFD. WT., 600 V., 22 ga., WHITE
6	9'	M22759/16-22-0	WIRE, ELEC., MFD. WT., 600 V., 22 ga., BLACK
5	1	011-00583-00	CONNECTOR KIT, GTX 330 TRANSPONDER, GARMIN
4	2	56103-4	PIN, 24-20 AWG, AMP
3	1	225873-4	PLUG, RIGHT ANGLE BNC, RG400, AMP
2	10'	RG400/L	CABLE, COAX, DOUBLE BRAID
1	1	225395-6	CONNECTOR, STRAIGHT JACK, BNC RG400, AMP
ITEM QTY PART NUMBER REV.			DESCRIPTION or MATERIAL
PARTS LIST			

Detail 34 - 10 GTX 330 Transponder Wiring (LB53344511D) (1/2)



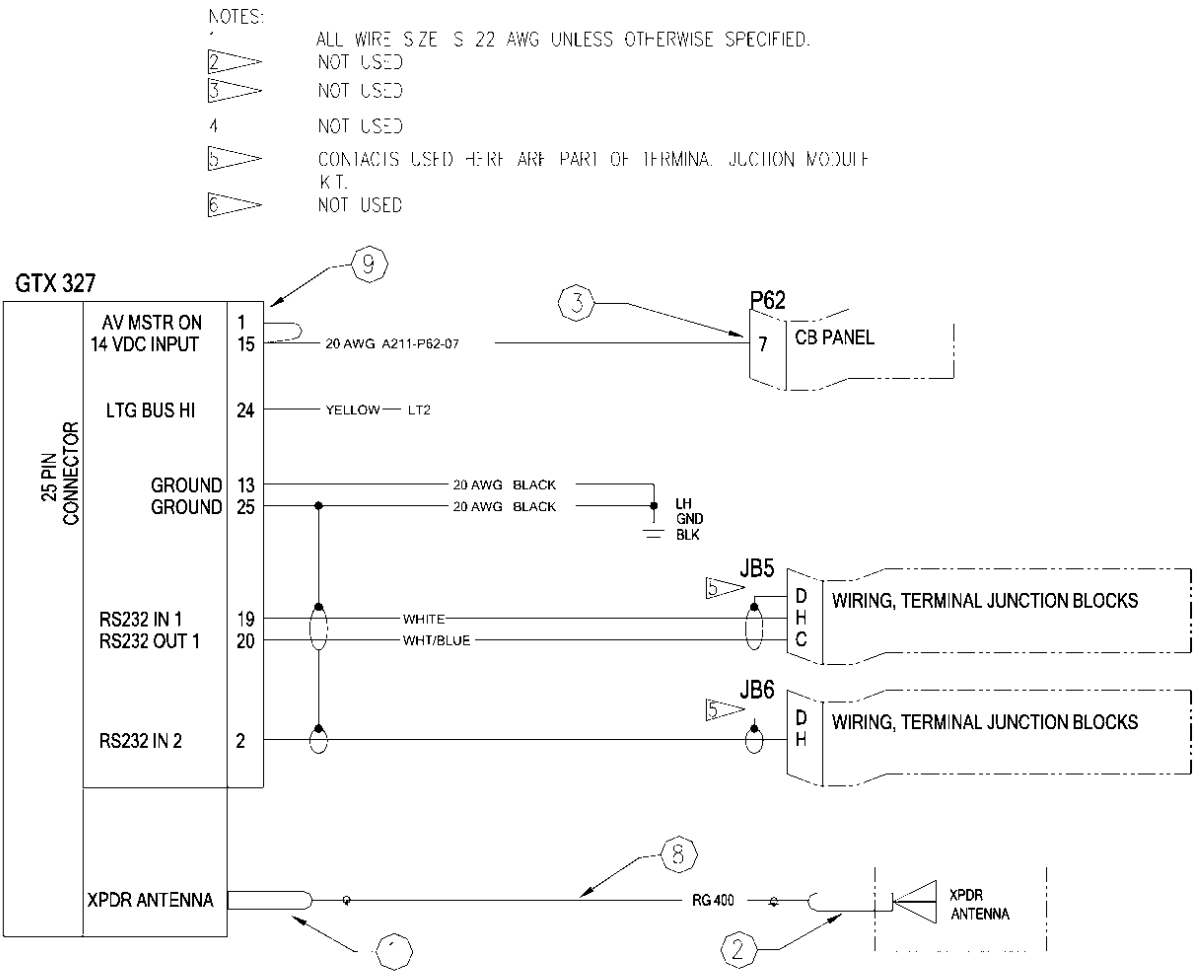
NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. VOLTAGE USED.

3. ANTENNA COAX MAY BE ROUTED SEPARATELY.

4. X DENOTES REFERENCE POINTS COMMON TO ALL HARNESSES.

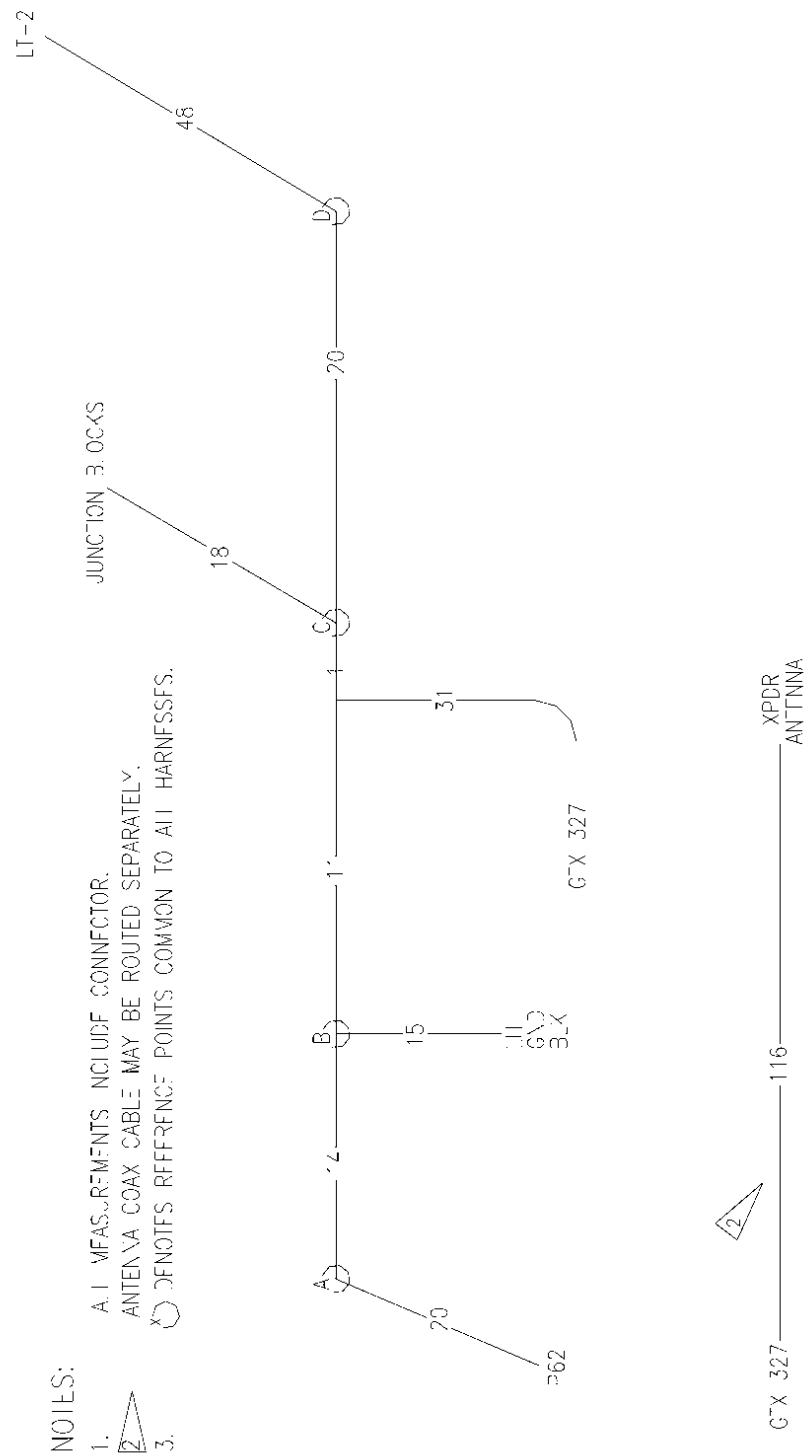
Detail 34 - 10 GTX 330 Transponder Wiring (2/2)



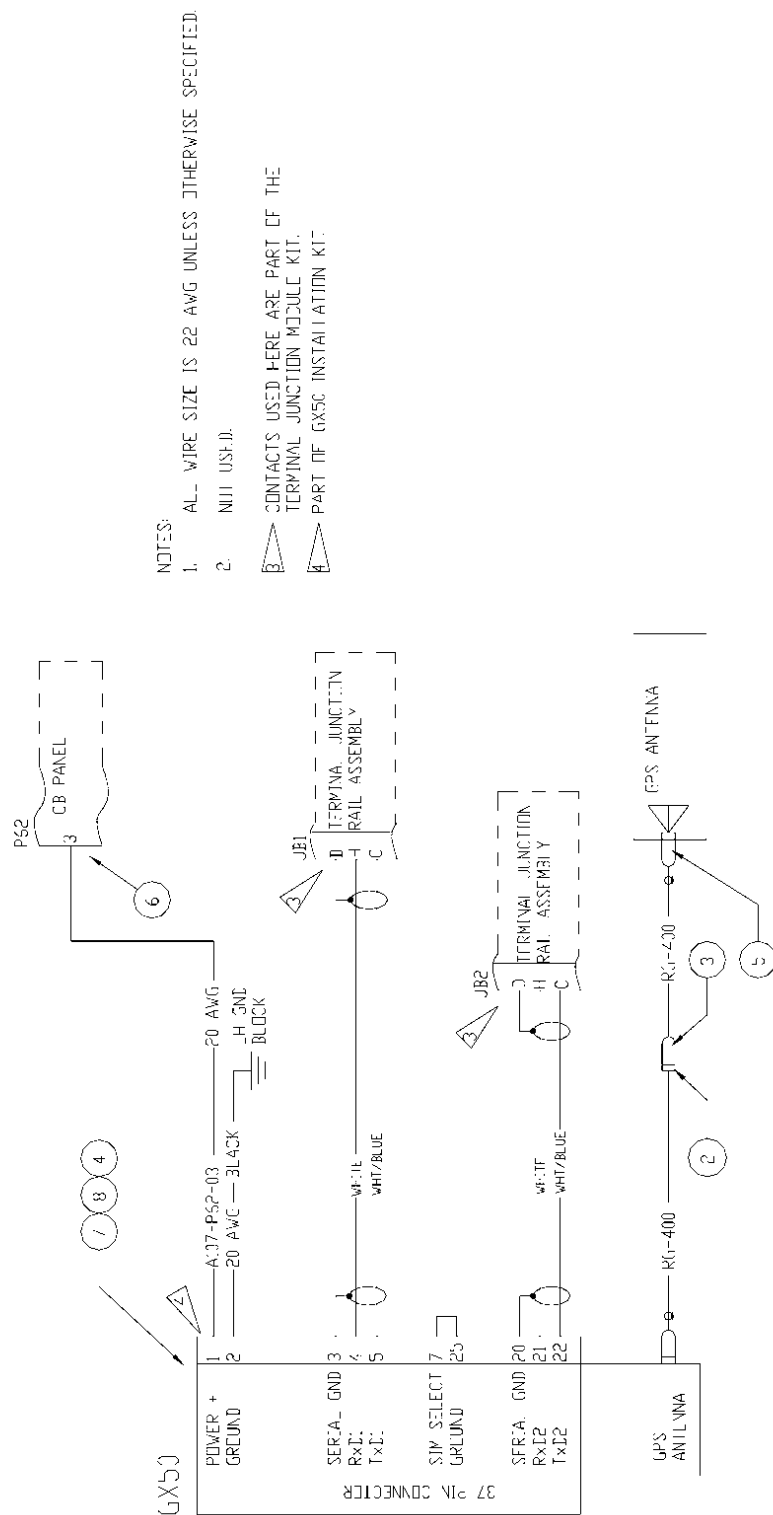
S	QTY	PART NUMBER	DESCRIPTION or MATERIAL
1	1	310-10101-01	INSTALL KIT, TRANSPONDER
6	10'	RG400/U	CABLE, COAX, DUAL Braid
7	5'		
6	5'		
5	10'		
4	7'		
3	2	66103-4	PIN, 24-20 BRASS, AMP
2		225973-4	PLUG, RIGHT ANGLE, BNC, RG400, AMP
1		225395-6	CONNECTOR, STRAIGHT JACK, BNC RG400, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL

PARTS LIST

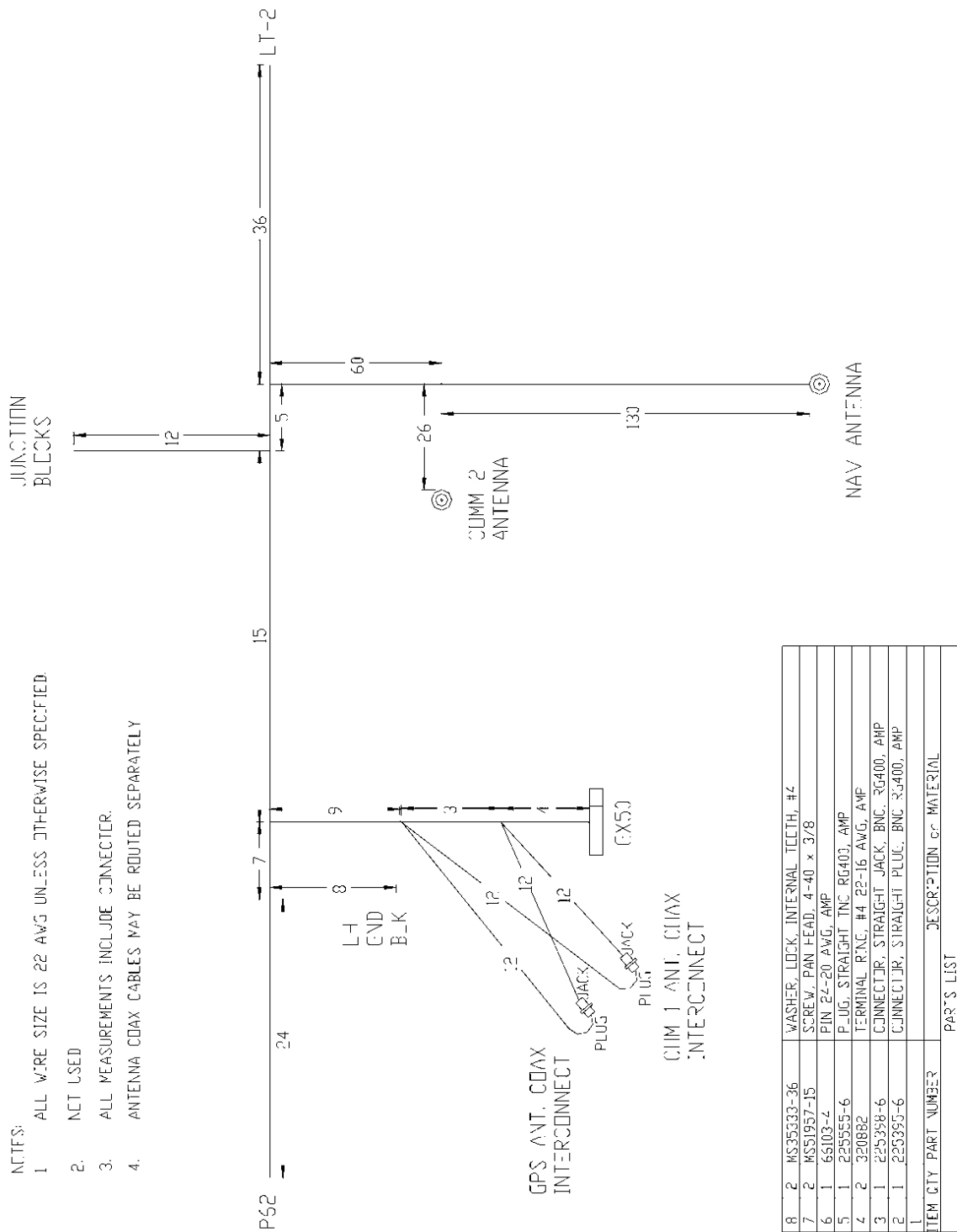
Detail 34 - 11 GTX 327 Transponder Wiring (LB53344510C) (1/2)



Detail 34 - 11 GTX 327 Transponder Wiring (2/2)



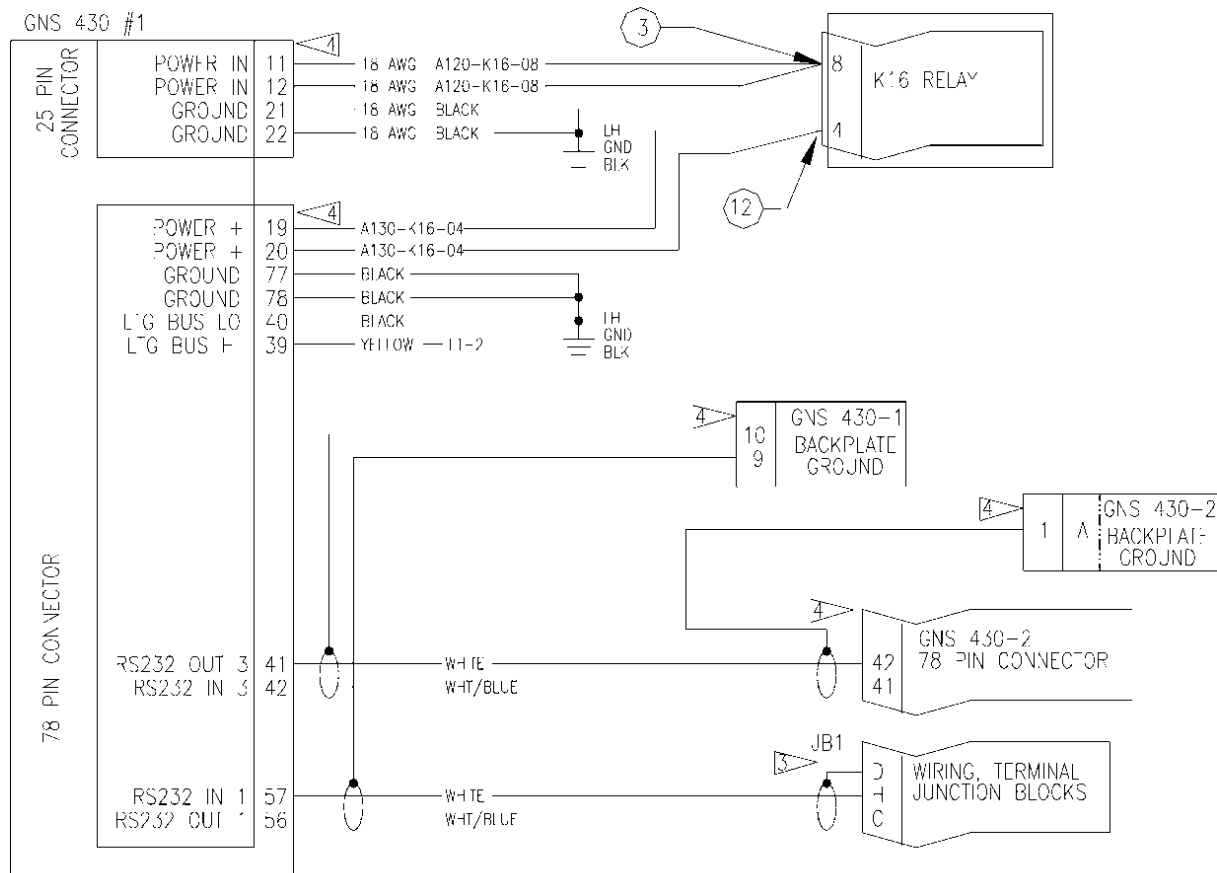
Detail 34 - 12 GX50 Premium IFR Wiring (LA53344601B) (1/2)



Detail 34 - 12 GX50 Premium IFR Wiring (2/2)

NOTES:

1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2. NOT USED.
3. CONTACTS USED HERE ARE PART OF TERMINAL JUNCTION MODULE KIT.
4. PART OF GNS 430 011-00351-00 INSTALLATION KIT

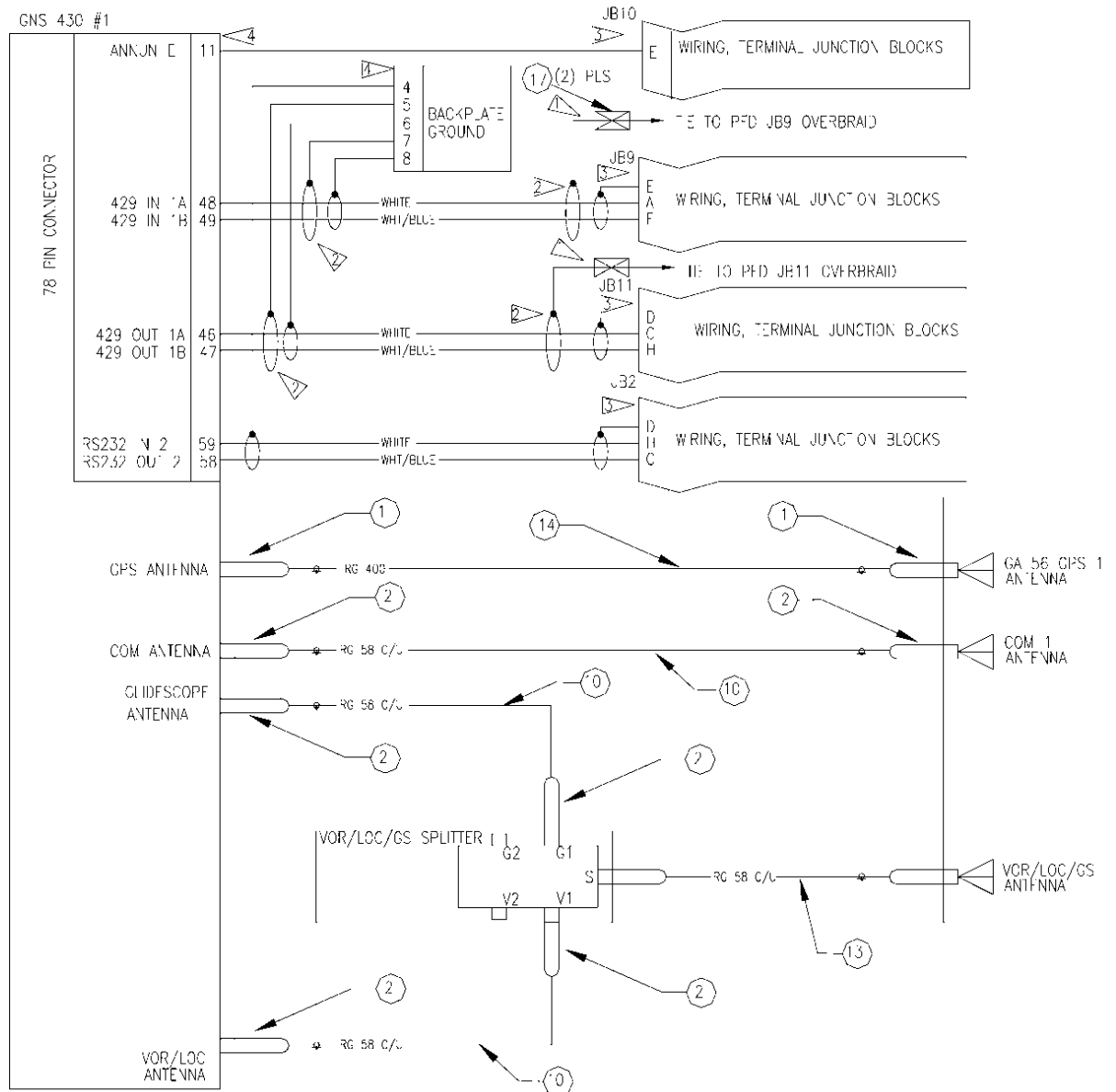


17	2	320559	BUTT SPLICE
16	5'	HIX-1/4	HEAT SHRINK TUBE, 1/4 NOMINAL I.D. EDMC
15	5'	8660	CABLE SHIELD, 1/8" NOMINAL I.D. BELDEN
14	17'	RG400/U	CABLE, COAX
13	1	1A53344407	CABLE ASSEMBLY, NAV ANTENNA
12	1	640903-1	RECEPTACLE, .250, RED, 22-18 AWG, AMP
11	1	011-00280-10	GNS 430, UNIT ONLY, PART OF 010-00139-10
10	22'	RG58 C/U	CABLE, COAX
9			NOT USED
8			NOT USED
7			NOT USED
6			NOT USED
5			NOT USED
4			NOT USED
3	1	640905-1	RECEPTACLE, .250, BLUE, 16-14 AWG, AMP
2	6	225395-1	CONNECTOR, STRAIGHT PLUG, RNC RG58, AMP
1	2	225395-6	CONNECTOR, STRAIGHT JACK, RNC RG400, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION OF MATERIAL
PARTS LIST			

Detail 34 - 13 GNS 430-1 GPS/COM/NAV, Entegra (LB53344612-) (1/3)

NOTES:

- 1 THE GNS 430-1 JB9 AND JB11 OVERBRAID WITH PFD JB9 AND JB11 OVERBRAID RESPECTIVELY.
- 2 CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD AS CLOSE TO THE PIN AS POSSIBLE. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEAT SHRINK.
- 3 CONTACTS USED HERE ARE PART OF TERMINAL JUNCTION MODULE KIT.
- 4 PART OF GNS 430 INSTALLATION KIT.



Detail 34 - 13 GNS 430-1 GPS/COM/NAV, Entegra (2/3)

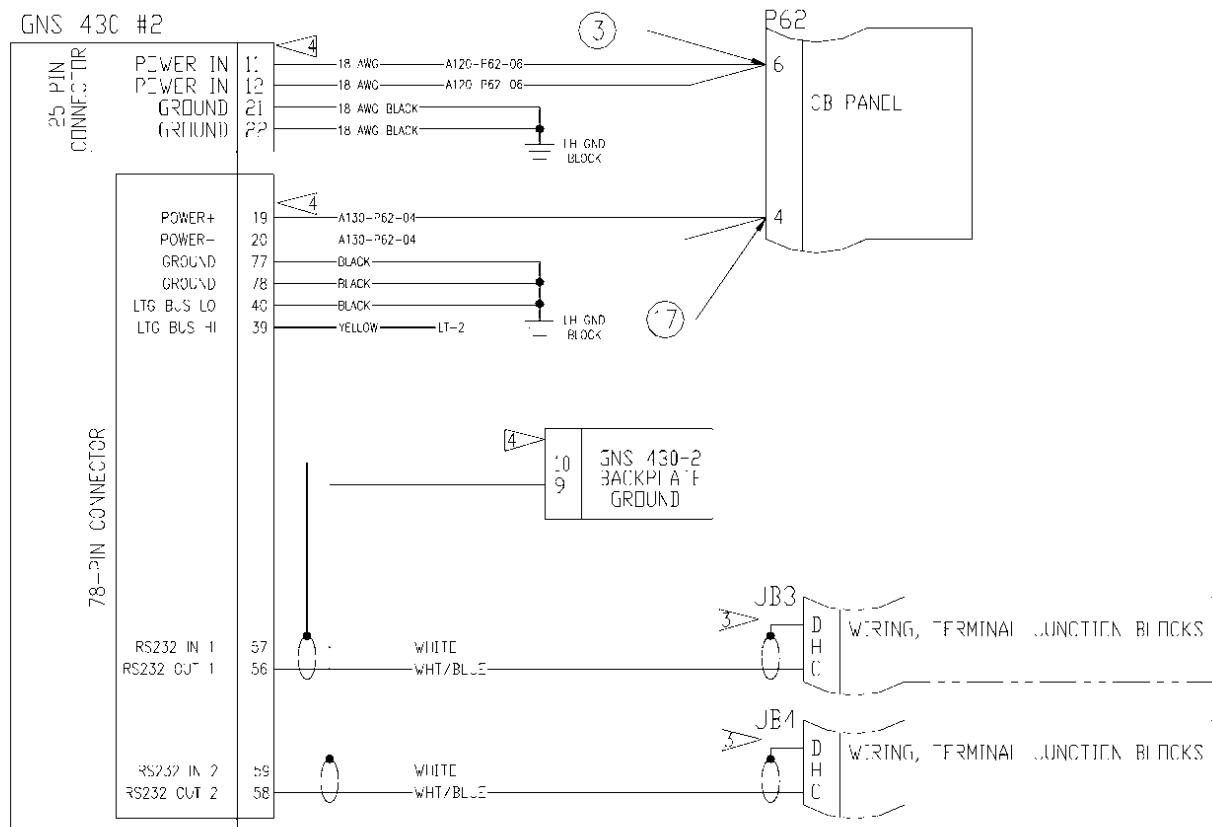
1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. NOT USED.

GNS 430 1 GS ANTENNA	50	CI 1125 DIPLEXER
GNS 430 1 V/LOC ANTENNA	50	CI 1125 DIPLEXER
GNS 430 1 COMM ANTENNA	160	COMM 1 ANTENNA
GNS 430 1 GPS ANTENNA	200	CA 56 GPS ANTENNA

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Initial Issue of Manual: 12/20/04

NOTES:

- 1 ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
- 2 NOT USED.
- 3 CONTACTS USED ARE PART OF TERMINAL JUNCTION MODULE KIT.
- 4 PART OF GNS 430 011-00351-00 INSTALLATION KIT.



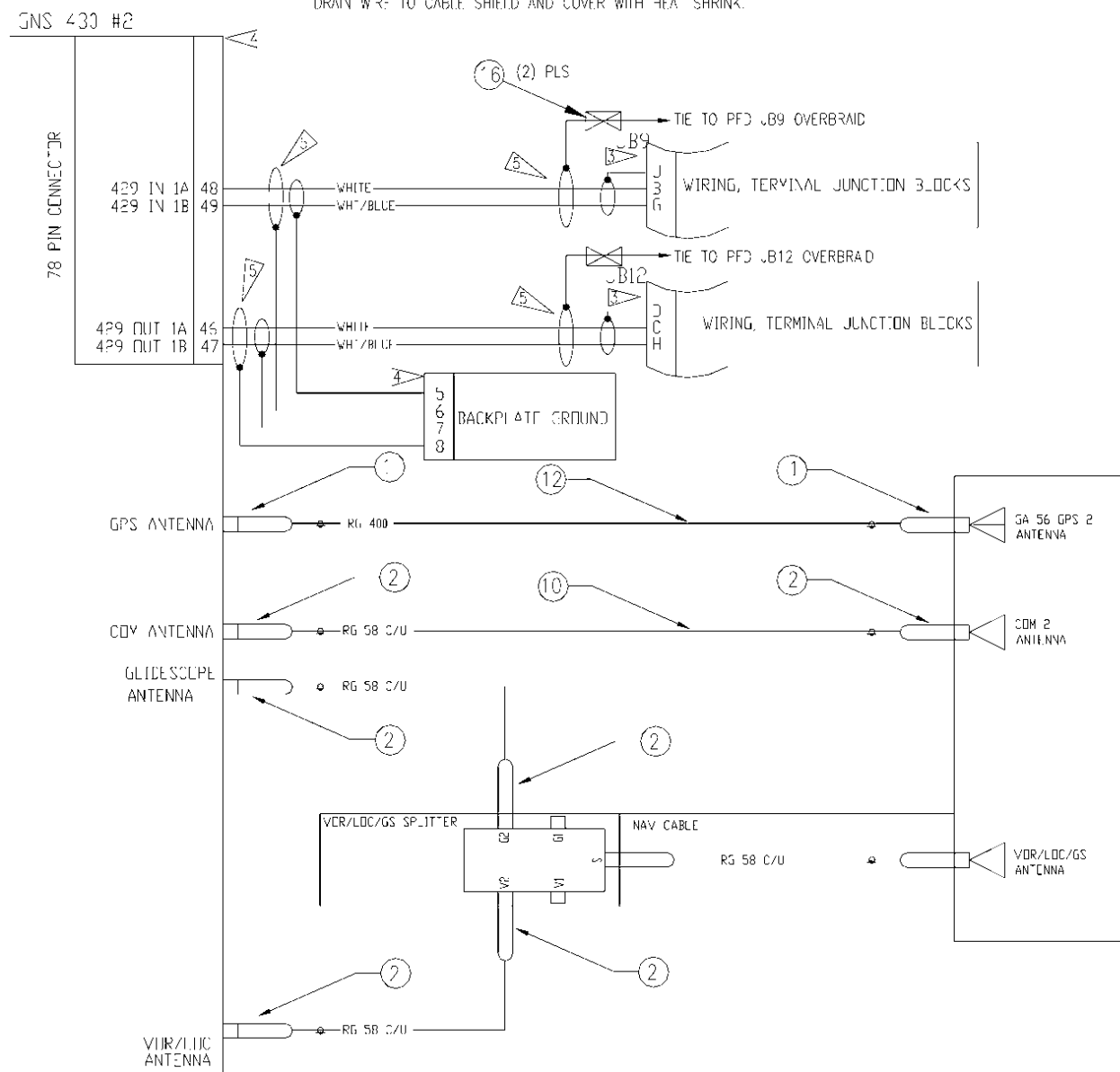
17	1	66103-4	PIN, 24-20 AWG, AMP
16	2	320559	BUTT SPLICE
15	4	HIX-1/4	FEAL SHRINK TUBE, 1/4 NOMINAL I.D. EDMO
14	4	8660	CABLE SHIELD (BRAID), 1/8" NOMINAL I.D. Belden
13			NOT USED
12	18'	RG400	CABLE, COAX
11		01' 00280 10	GNS 430, UNIT ONLY, PART OF 010-00139-10
10	20'	RG58 C/U	CABLE, COAX
9	17'	M27500/18-22-2	CABLE, ELEC., SHIELDED, 22 ga., TWO CONDUCTOR
8	8'	M22759/16-22-4	WIRE, ELEC., MED. WT., 600 V, 22 ga., YELLOW
7	12'	M22759/16-22-0	WIRE, ELEC., MED. WT., 600 V, 22 ga., BLACK
6	17'	M22759/16-22-9	WIRE, ELEC., MED. WT., 600 V, 22 ga., WHITE
5	8'	M22759/16-18-0	WIRE, ELEC., MED. WT., 600 V, 18 ga., BLACK
4	11'	M22759/16-18-9	WIRE, ELEC., MED. WT., 600 V, 18 ga., WHITE
3	1	66099-4	PIN, 18-16 AWG, AMP
2	6	225395-1	CONNECTOR, STRAIGHT PLUG, ENC RG58, AMP
1	2	225395-6	CONNECTOR, STRAIGHT JACK, ENC RG400, AMP
ITEM	QTY	PART NUMBER	REV. DESCRIPTION or MATERIAL

PARTS LIST

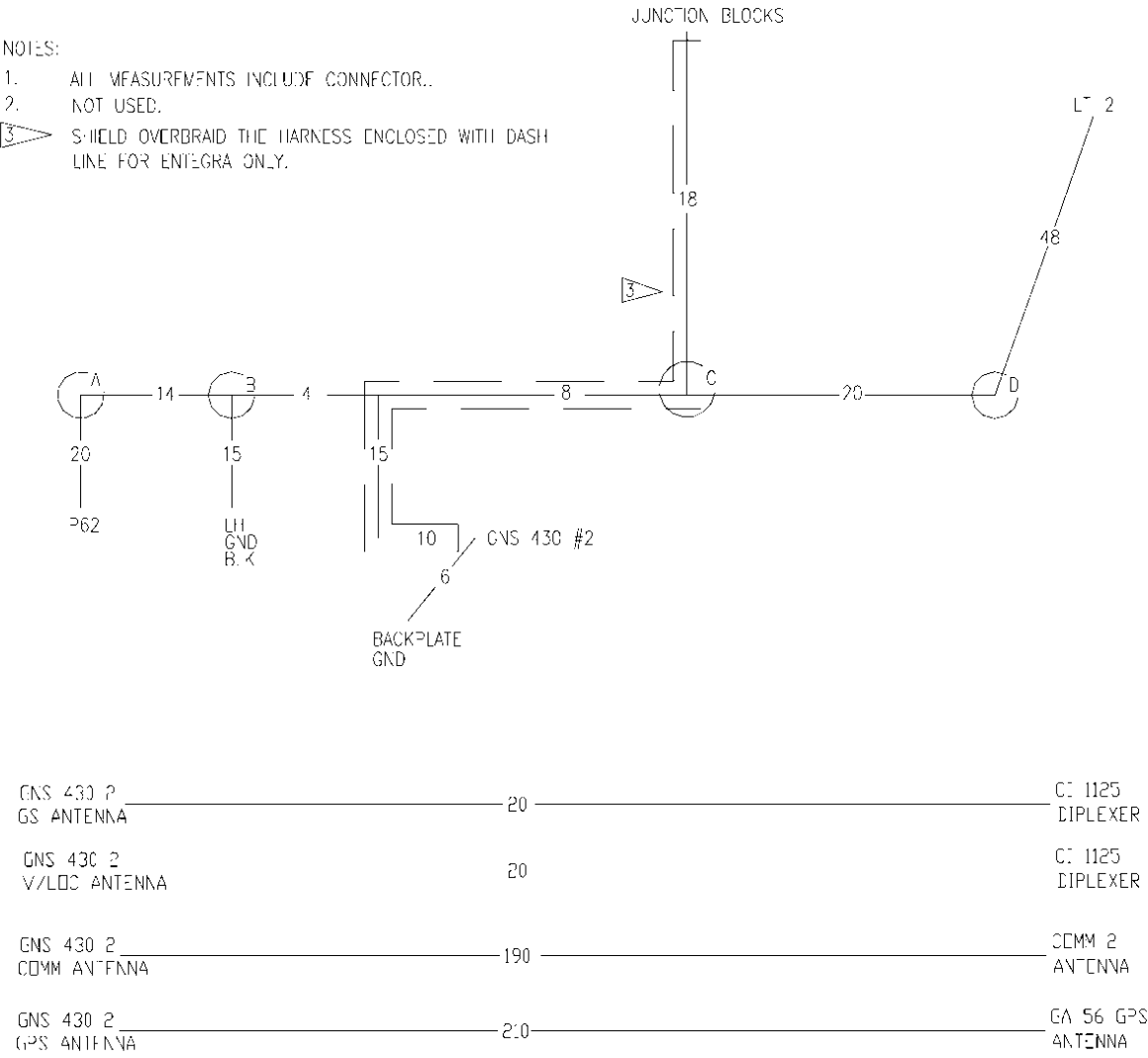
Detail 34 - 14 GNS 430 #2 GPS/COM/NAV, Entegra (LB53344613B1) (1/3)

NOTES:

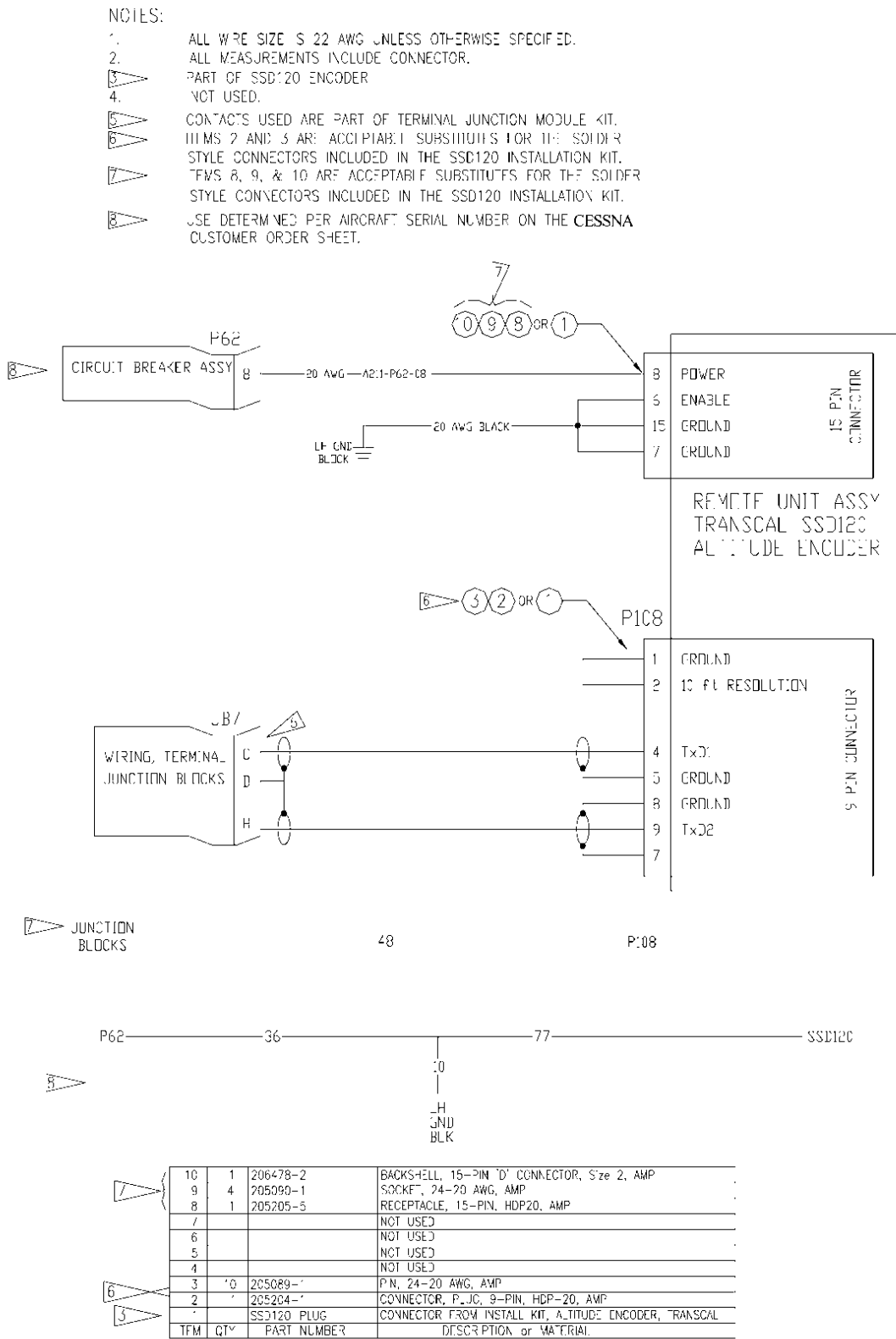
1. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
2. NOT USED.
3. CONTACTS USED ARE PART OF TERMINAL JUNCTION MODULE KIT.
4. PART OF GNS 430 INSTALLATION KIT.
5. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD AS CLOSE TO THE PIN AS POSSIBLE. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEAT SHRINK.



Detail 34 - 14 GNS 430 #2 GPS/COM/NAV, Entegra (2/3)



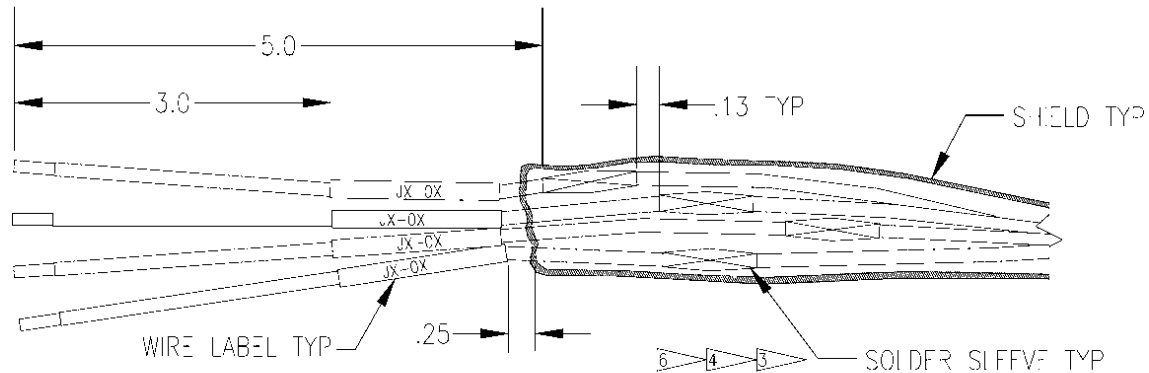
Detail 34 - 14 GNS 430 #2 GPS/COM/NAV, Entegra (3/3)



Detail 34 - 15 SSD120 Altitude Encoder Wiring, Entegra (LB53344513-)

NOTES:

- 1 GO.D PLATED SOCKET, P/N 770144-5 IS THE PREFERRED PART.
- 2 ALL DIMENSIONS ARE $\pm 0.25"$.
- 3 ALL SOLDER SLEEVES SHOULD BE STAGGERED SO AS NOT TO MAKE A LARGE BULGE IN FINISHED BUNDLE.
- 4 ONLY ONE SHIF.D WIRE PER SOLDER SLEEFV. DAISY CHAIN S-FILDS TOGETHER AS REQUIRED.
- 5 FOUR WIRES ARE SHOWN HERE ALL BUNDLES MAY CONTAIN MORE OR LESS.
- 6 A MAXIMUM OF TWO SOLDER SLEEVES MAY LIE ADJACENT TO EACH OTHER.
- 7 THE MS3106F CONNECTOR IS THE PREFERRED ITEM FOR PRODUCTION, WHEN USED ITEM 34 WILL NOT BE NEEDED.



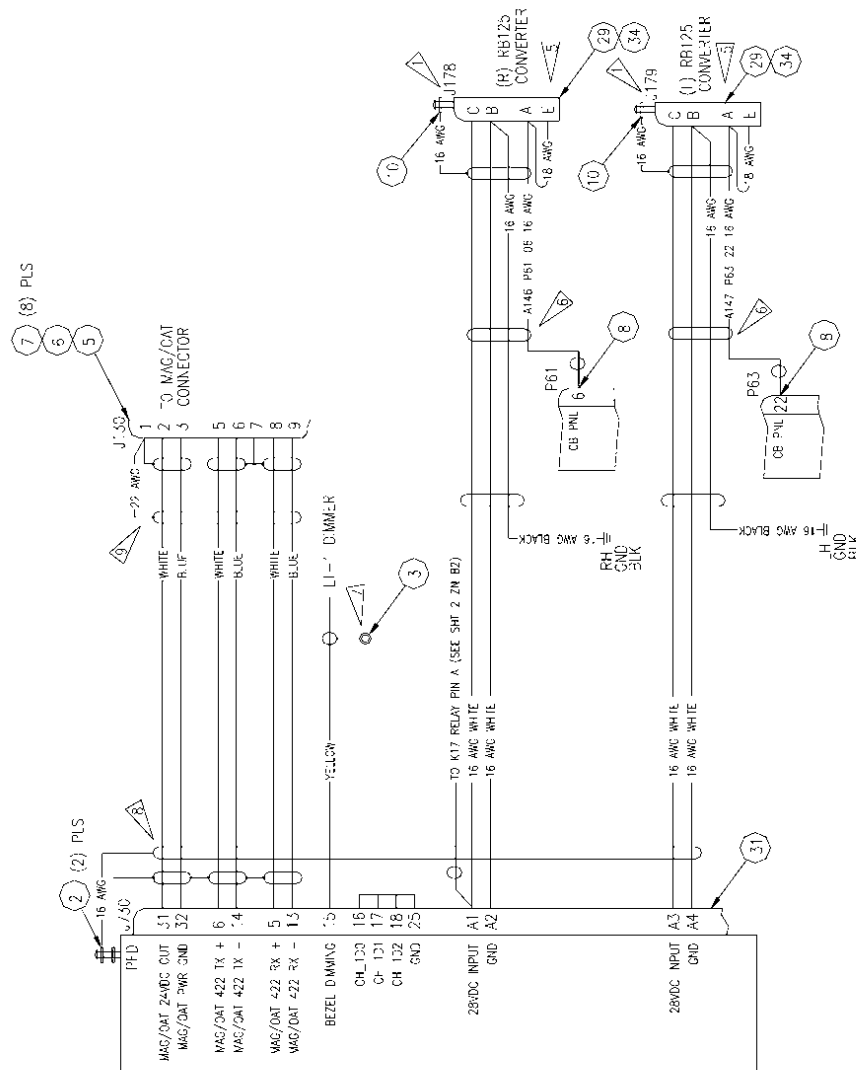
5 2 TYPICAL HARNESS CONSTRUCTION
(SCALE: N.T.S.)

34	2	97-3057-1007	BACKSHELL, SIZE 14, SOLDER TYPE	
33	70	M22759/16-16-9	WIRE, ELECTRIC, MED. WT., 600 V, 16 ga., WHITE	
32	1	2D44F10GEO	CONNECTOR, D-SUB, 44 FEMALE, W/HOOD AND SOCKETS, POSITRONIC	
31	1	36C36W4-20610-0215	CONNECTOR, COMBO, 36W4, W/HOOD AND SOCKETS, EXTENDED BACKSHELL, POSITRONIC	
30	1	2D78F10GEO	CONNECTOR, D-SUB, 78 FEMALE, W/HOOD AND SOCKETS, POSITRONIC	
29	2	MS3106F14S-5S	CONNECTOR PLUG, ENVIRO, STRAIGHT, 5-SOCKET w/ STRAIN RELIEF	
		MS3106A14S-5S	CONNECTOR PLUG, STRAIGHT	
28	AR	8662	CABLE SHIELD (BRAID), 25/32" NOMINAL I.D. BELDEN	
27	AR	8668	CABLE SHIELD (BRAID), 11/64" NOMINAL I.D. BELDEN	
26	AR	HIX-1/2	HEAT SHRINK TUBE, 1/2" NOMINAL I.D.	
25	AR	HIX-3/8	HEAT SHRINK TUBE, 3/8" NOMINAL I.D., EDMO	
24	AR	HIX-1/4	HEAT SHRINK TUBE, 1/4" NOMINAL I.D., EDMO	
23	AR	8669	CABLE SHIELD (BRAID), 1/2" NOMINAL I.D. BELDEN	
22	AR	866	CABLE SHIELD (BRAID), 13/64" NOMINAL I.D. BELDEN	
21	AR	8663	CABLE SHIELD (BRAID), 7/32" NOMINAL I.D. BELDEN	
20	AR	8660	CABLE SHIELD (BRAID), 7/8" NOMINAL I.D. BELDEN	
19	1	770144-5	SOCKET, 20-14 AWG, GOLD, AMP	
		770144-1	SOCKET, 20-14 AWG, BRASS, AMP	
18	2	M22759/16-22-9	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., WHITE	
17	9	M22759/16-22-4	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., YELLOW	
16	5	M22759/16-18-0	WIRE, ELECTRIC, MED. WT., 600 V, 18 ga., BLACK	
15	5	M22759/16-16-0	WIRE, ELECTRIC, MED. WT., 600 V, 16 ga., BLACK	
14	21	M27500/18-22-3	CABLE, ELECTRIC, SHIELDED, 22 ga., THREE CONDUCTOR	
13	102	M27500/18-22-2	CABLE, ELECTRIC, SHIELDED, 22 ga., TWO CONDUCTOR	
12	17	M27500/18-22-1	CABLE, ELECTRIC, SHIELDED, 22 ga., SINGLE CONDUCTOR	
11	60	M27500/18-16-2	CABLE, ELECTRIC, SHIELDED, 16 ga., TWO CONDUCTOR	
10	2	36158	TERMINAL RING, 14-16 AWG, #6 STUD, BLUE	
9	AR	HIX-3/4	HEAT SHRINK TUBE, 3/4" NOMINAL I.D., EDMO	
8	2	56099-4	PIN, 18-16 AWG, AMP	
7	8	66105-4	SOCKET, 24-20 AWG, AMP	
6	1	206966-1	BACKSHELL, SIZE 13, CPC, AMP	
5	1	206708-1	PLUG, 3-9 PIN, CPC, SIZE 13, AMP	
4	1	W389CX-13	RELAY, SPDT, 24 VOLT	
3	1	36154	TERMINAL RING, 22-16 AWG, #10 STUD, RED	
2	3	320882	TERMINAL RINGS, 22-16 AWG, #4 STUD, RED	
1	3	320559	BUTT SPLICE	
ITEM	QTY	PAR. NUMBER	REV.	DESCRIPTION or MATERIAL
				PAR'S LIST

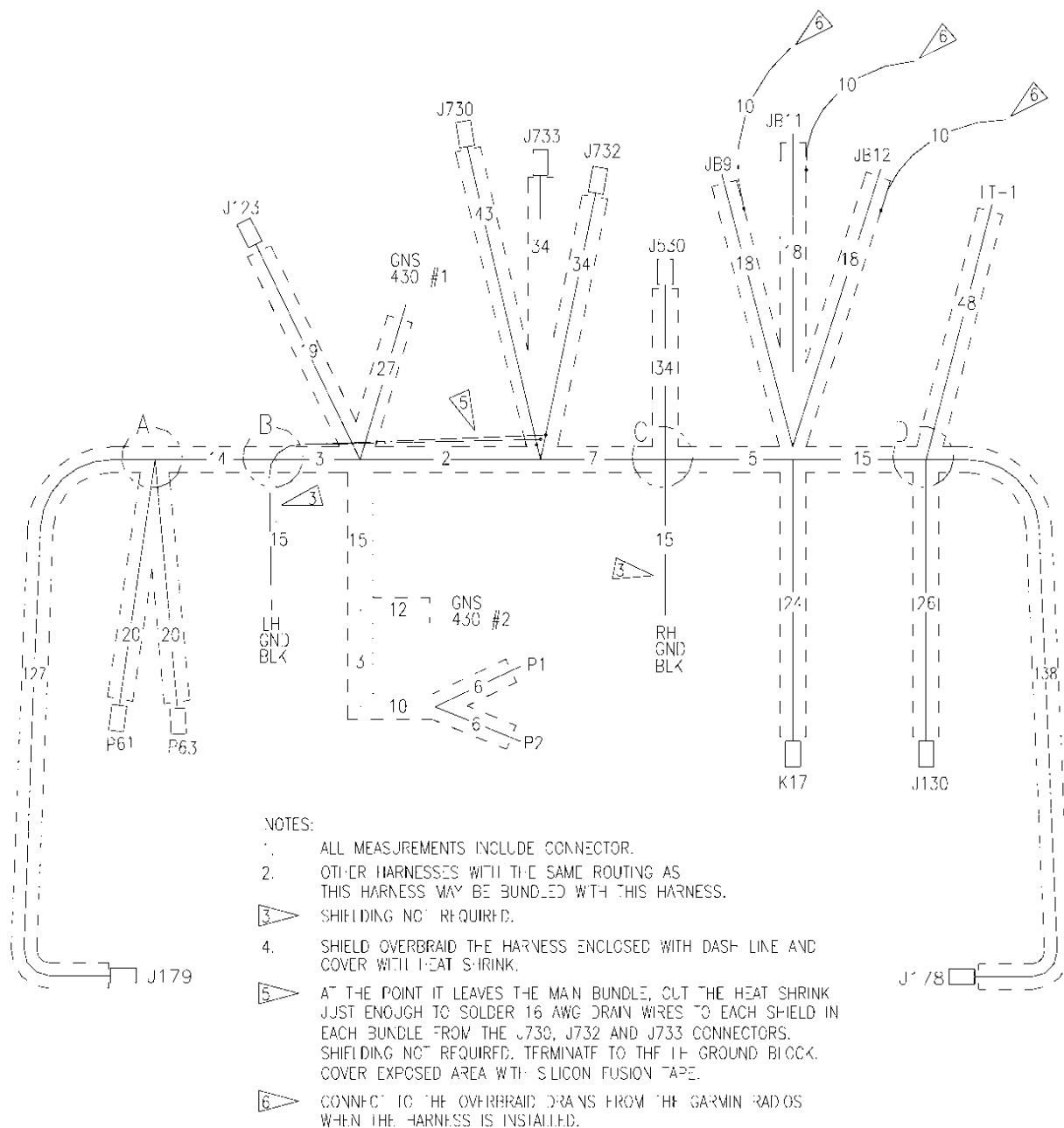
Detail 34 - 16 Primary Flight Display Wiring, Entegra (LB53344809A2) (1/8)



- NOTES:
1. CUT HEAT SHIELD BACK EXPOSING CABLE SHIELD. FOLD CABLE SHIELD BACK OVER HEAT SHIELD. SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEATSHRINK. CRIMP TERMINAL RING AND CONNECT TO THE BACKSHELL.
 2. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE NOTED.
 3. GROUND WIRES CONNECTED TO THE GROUND TERMINAL BLOCK ARE BLACK. LIGHTING WIRES CONNECTED TO THE LIGHTING TERMINAL STRIPS ARE YELLOW.
 4. NOT USED.
 5. CONNECTOR MS3106A AND BACKSHELL MAY BE SUPPLIED WITH THE CONVERTER AND WILL BE USED TOGETHER. WHEN THE PREFERRED PART VS3106E IS USED, ITEM 34 WILL NOT BE NEEDED.
 6. SHIELDING OF THESE WIRES END AT THE CIRCUIT BREAKER PANEL.
 7. CUT HEAT SHIELD BACK EXPOSING CABLE SHIELD. FOLD CABLE SHIELD BACK OVER HEAT SHIELD. SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEATSHRINK. CRIMP TERMINAL RING AND GROUND TO THE LIGHT DIMMER MOUNTING HOLE WITH #10 TERMINAL LUG.
 8. CUT HEAT SHIELD BACK EXPOSING CABLE SHIELD ON EACH BUNDLE GOING TO THE CONNECTOR. ABOUT 6" FROM THE CONNECTOR, FOLD CABLE SHIELD BACK OVER HEAT SHIELD. SHRINK AT LEAST 1/2" ON EACH BUNDLE. TACK SOLDER CABLE SHIELDS TOGETHER AND COVER WITH A LARGE CABLE SHIELD. CONTACTING ALL EXPOSED BRAD AND COVER WITH HEAT SHRINK. FOLD THE LARGE SINGLE CABLE SHIELD OVER HEAT SHIELD. SHRINK NEAR CABLE CLAMP. SOLDER DRAIN WIRE TO CABLE SHIELD. CRIMP TERMINAL RING TO THE OTHER END AND CONNECT TO THE BACKSHELL. COVER WITH HEAT SHRINK.
 9. CUT HEAT SHIELD BACK EXPOSING CABLE SHIELD. FOLD CABLE SHIELD BACK OVER HEAT SHIELD. SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEATSHRINK.



Detail 34 - 16 Primary Flight Display Wiring, Entegra (3/8)



FINISHED HARNESS ASSEMBLY
(SCALE: N.T.S.)

Detail 34 - 16 Primary Flight Display Wiring, Entegra (4/8)

GENERAL NOTES:

1. SEE TABLE 1 FOR SHIELD AND HEAT SHRINK SIZE.

TABLE 1		
SWAG	SHIELD SIZE	HEAT SHRINK SIZE
(A)	1/16"	1/8"
(B)	1/8"	1/4"
(C)	7/32"	3/8"
(D)	1/2"	1/2"
(E)	1/2"	3/4"

2. REFER TO SHEET 4 FOR THE LENGTH OF INDIVIDUAL HARNESS.

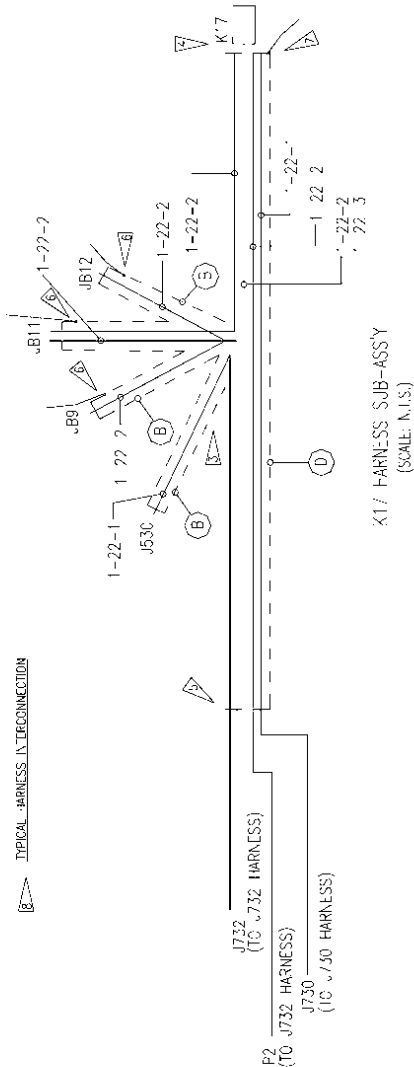
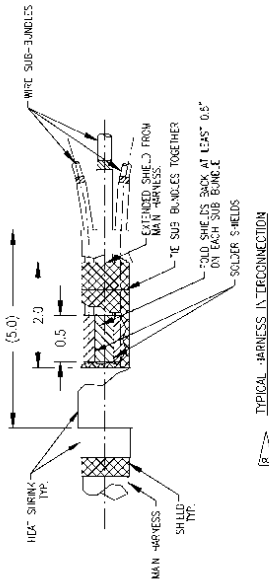
3. ALL DRAIN WIRE SIZE 15-22 AWG AND 18" LONG UNLESS OTHERWISE NOTED.

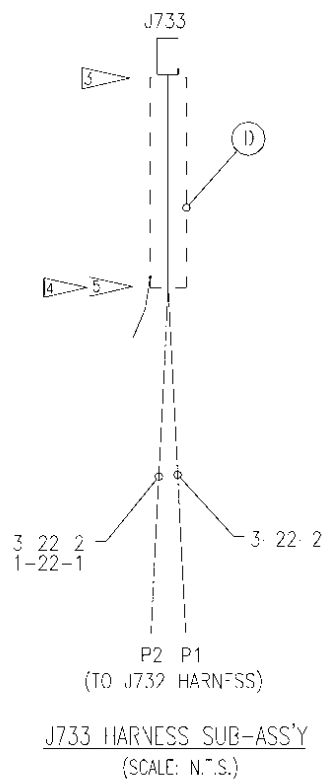
4. LEGENDS: WIRE IDENTIFICATION X-XX-X
WHERE (X) NO. OF WIRES - (XX) WIRE GAUGE - (X) NO. OF CONDUCTOR

5. AND THE MAIN HARNESS IS ENCLOSED IN
WHEREVER TWO OR MORE SUB-BUNDLES TERMINATE, CUT HEATSHRINK BACK EXPOSING CABLE SHIELD ON EACH BUNDLE (± 6" BACK IF AT THE TERMINATED END). FOLD CABLE SHIELD BACK OVER JUNCTION. SHRINK A MINIMUM OF 1/2" ON EACH BUNDLE. ACK-SOLDER CABLE SHIELDS TOGETHER AND COVER WITH A LARGER CABLE SHIELD. CONTACTING ALL EXPOSED BRAID AND COVER WITH HEAT SHRINK. COMPLETE OTHER TERMINATIONS AS SPECIFIED IN THE INSTRUCTIONS FOR EACH SUB-ASSEMBLY.

INSTRUCTIONS:

1. CUT WIRES, SHIELD AND HEAT SHRINK ACCORDINGLY.
2. START TO WORK ON THE SMALL HARNESS ALL THE WAY TO THE MAIN HARNESS.
3. PREPARE EACH WIRE SUB-BUNDLE WITH AT LEAST 0.5" EXTRA LONG SHIELD AS SHOWN ON THE HARNESS INTERCONNECTION DETAIL.
4. SOLDER WIRES TO K-7 RELAY AND COVER WITH HEAT SHRINK ON EACH CONNECTION.
5. PREPARE WIRE BUNDLE WITH AT LEAST 0.5" EXTRA LONG SHIELD.
6. SOLDER 10" LONG 22 AWG DRAIN WIRES (BLACK) TO THE SHIELDS OF EACH JBB, J3-1 AND J8-2 SHIELDS BEFORE SHRINKING THE HEAT SHRINK.
7. SOLDER A 24" LONG 22 AWG DRAIN WIRE (BLACK) TO THE SHIELD BEFORE SHRINKING THE HEAT SHRINK.
8. FOLD SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH SUB-BUNDLE. TACK SOLDER CABLE SHIELDS TOGETHER AND COVER THE SOLDER JOINTS WITH THE MAIN HARNESS SHIELD AT LEAST 2". COVER WITH A HEAT SHRINK.





GENERAL NOTES FROM SHEET 5 APPLY

INSTRUCTIONS:

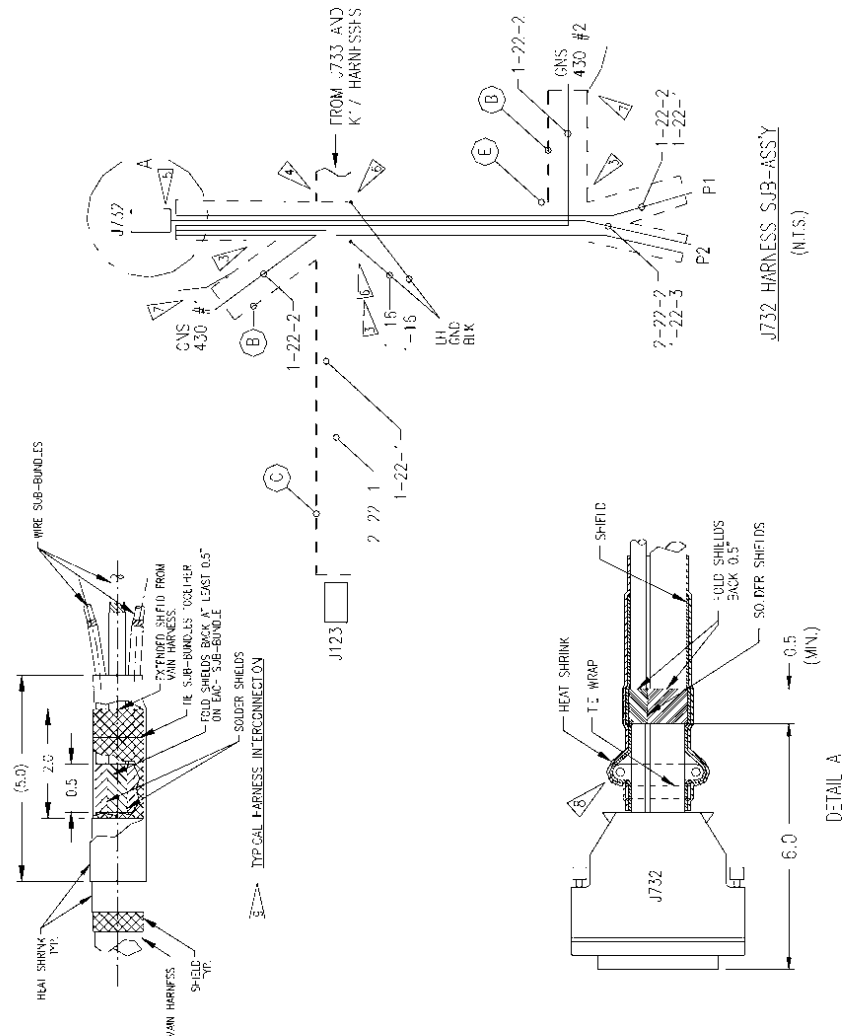
1. CUT WIRES, SHIELD AND HEAT SHRINK ACCORDINGLY.
2. CONNECT ALL WIRES TO J733 CONNECTOR.
3. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD AS CLOSE TO THE CONNECTOR AS POSSIBLE. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEAT SHRINK. CRIMP TERMINAL RING AND CONNECT IT TO THE GROUND INSIDE THE BACKSHELL.
4. PREPARE WIRE BUNDLE WITH AT LEAST 0.5" EXTRA LONG SHIELD.
5. FOLD THE CABLE SHIELD BACK AND SOLDER A 20" 16 AWG DRAIN WIRE (BLACK) TO J733 CONNECTOR.

Detail 34 - 16 Primary Flight Display Wiring, Entegra (6/8)

GENERAL NOTES FROM SHEET 5 APPLY

INSTRUCTIONS:

1. CUT WIRES, SHIELD AND HEAT SHRINK ACCORDINGLY.
2. START TO WORK ON THE SMALL HARNESS ALL THE WAY TO THE MAIN HARNESS.
3. PREPARE EACH WIRE SUB-BUNDLE WITH AT LEAST 0.5" EXTRA LONG SHIELD AS SHOWN ON THE HARNESS INTERCONNECTION DETAIL.
4. SLIDE J733 AND K17 BUNDLE TO THIS HARNESS BEFORE SHRINK THE J732 HARNESS.
5. TERMINATE THE SHIELDS, STAGGERED CUTS OF THE BACKSHIELD, CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD ON EACH BUNDLE GOING TO THE CONNECTOR ABOUT 6" FROM THE CONNECTOR, FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH BUNDLE, TACK SOLDER CABLE SHIELDS TOGETHER AND COVER WITH A LARGE CARF. SHIELD CONTACTING ALL EXPOSED BRAD AND COVER THE BACKSHIELD CLAMP WITH CABLE SHIELD, THE WRAP THE CABLE SHIELD TOGETHER THE BACKSHIELD CLAMP AND COVER ALL OF THE EXPOSED CABLE SHIELD WITH HEAT SHRINK.
6. CUT THE HEAT SHRINK JUST ENOUGH TO SOLDER 16 AWG DRAIN WIRES TO EACH BUNDLE OF THE J732 AND J733 CONNECTORS AT THE POINT IT LEAVES THE MAIN BUNDLE, SOLDERING NOT REQUIRED. TERMINATE TO THE L1 GROUND BLOCK, COVER EXPOSED AREA WITH SILICON TOSOL TAPE.
7. SOLDER 10" LONG 22 AWG DRAIN WIRES (BLACK) TO THE SHIELDS BEFORE SHRINKING THE HEAT SHRINK.
8. TRIM STRAIN RELIEF SCREW AS REQUIRED IF IT IS TOO LONG FOR HEAT SHRINK.
9. FOLD SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH SUB-BUNDLE TACK SOLDER CABLE SHIELDS TOGETHER AND COVER THE SOLDER CABLE SHIELDS WITH THE MAIN HARNESS SHIELD AT LEAST 2". COVER WITH A HEAT SHRINK.

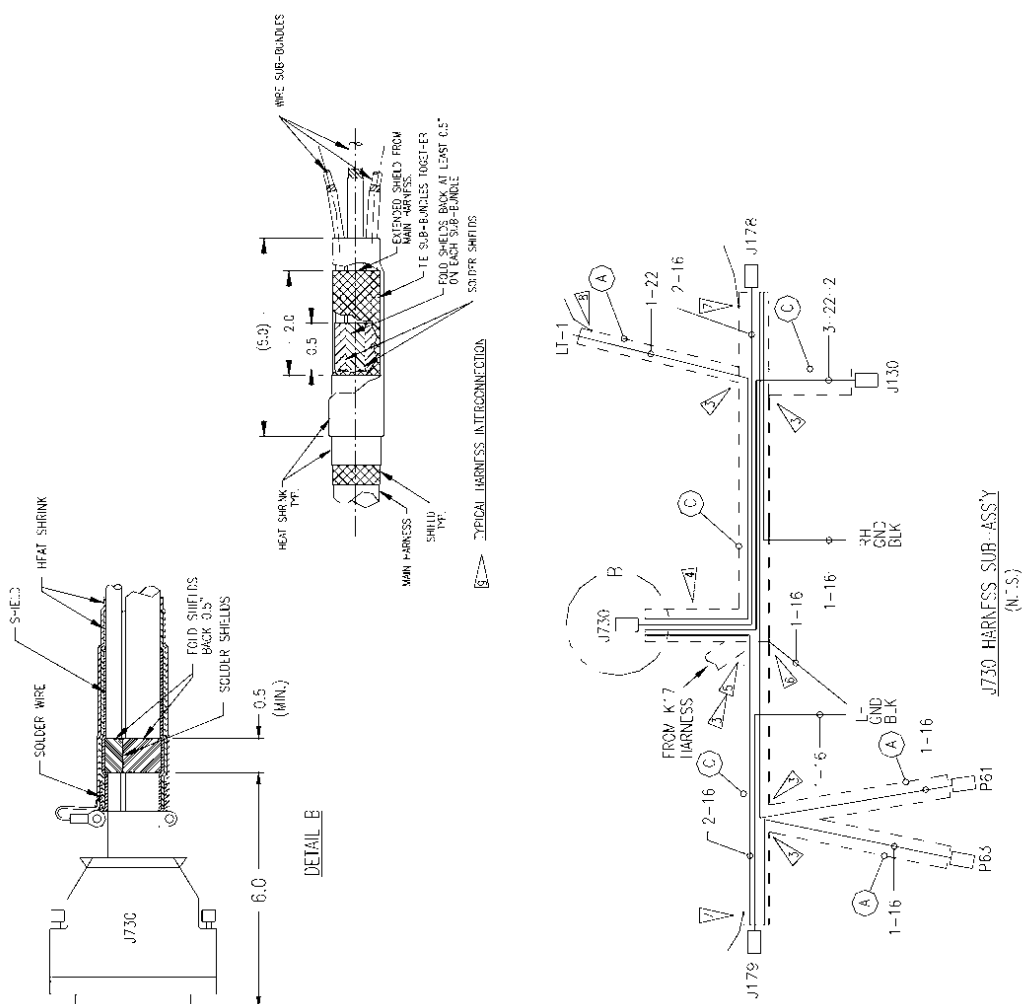


Detail 34 - 16 Primary Flight Display Wiring, Entegra (7/8)

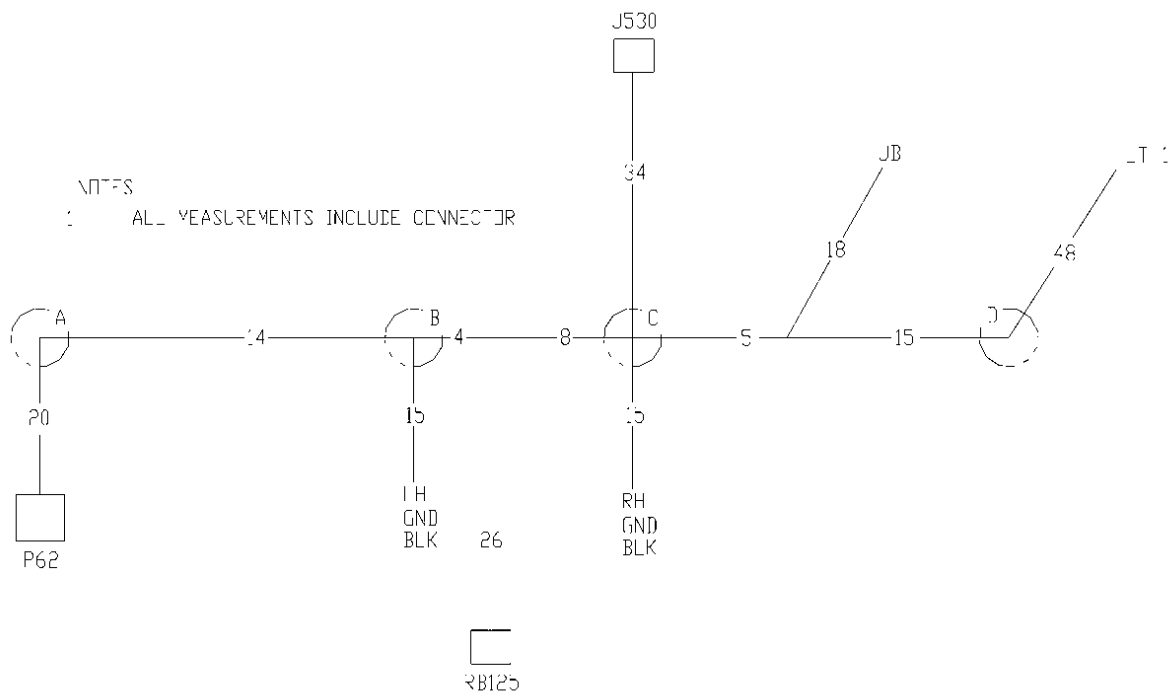
GENERAL NOTES FROM SHEET 5 APPLY ✓

INSTRUCTIONS:

1. CUT WIRES, SHIELD AND HEAT SHRINK ACCORDINGLY.
2. START TO WORK ON THE SMA. - HARNESS ALL THE WAY TO THE MAIN HARNESS. PREPARE EACH WIRE SUB-BUNDLE WITH AT LEAST 0.5" EXTRA LONG SHIELD AS SHOWN ON THE HARNESS INTERCONNECTION DETAIL.
3. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD ON EACH BUNDLE IF GOING TO TIE-CONNECTOR ABOUT 6" FROM THE CONNECTOR. FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH BUNDLE. TACK SOLDER CABLE SHIELDS TOGETHER AND COVER WITH A LARGE CABLE SHIELD CONTACTING ALL EXPOSED BRAD AND COVER WITH 1" HEAT SHRINK. COLD TIE LARGE SINGLE CABLE SHIELD BRAD OVER HEAT SHRINK NEAR CABLE CLAMP. SOLDER DRAIN WIRE TO CABLE SHIELD, CRIMP TERMINAL RING TO THE OTHER END AND CONNECT TO THE BACKSHEILD. COVER WITH HEAT SHRINK.
4. SLIDE A WIRE FROM K17 TO J330 BUNDLE BEFORE SHRINK THE J330 HARNESS.
5. CUT THE HEAT SHRINK JUST ENOUGH TO SOLDER A 16 AWG DRAIN WIRE (BLACK) TO J330 CONNECTOR AT THE POINT IT LEAVES THE MAIN BUNDLE. SHIELDING NOT REQUIRED. TERMINATE TO THE 1" GROUND BLOCK COVER EXPOSED AREA WITH SILICON FUSION TAPE.
6. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD AND FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEATSHRINK. CRIMP TERMINAL RING AND CONNECT IT TO THE BACKSHEILD.
7. CUT HEAT SHRINK BACK EXPOSING CABLE SHIELD AND FOLD CABLE SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2". SOLDER DRAIN WIRE TO CABLE SHIELD AND COVER WITH HEATSHRINK. CRIMP TERMINAL RING AND GROUND TO THE EGT DYMER MOUNTING HOLE WITH #10 TERMINAL LUG.
8. FOLD SHIELD BACK OVER HEAT SHRINK AT LEAST 1/2" ON EACH SUB-BUNDLE. TACK SOLDER CABLE SHIELDS TOGETHER AND COVER THE SOLDER CABLE SHIELDS WITH THE MAIN HARNESS SHIELD AT LEAST 2". COVER WITH A HEAT SHRINK.

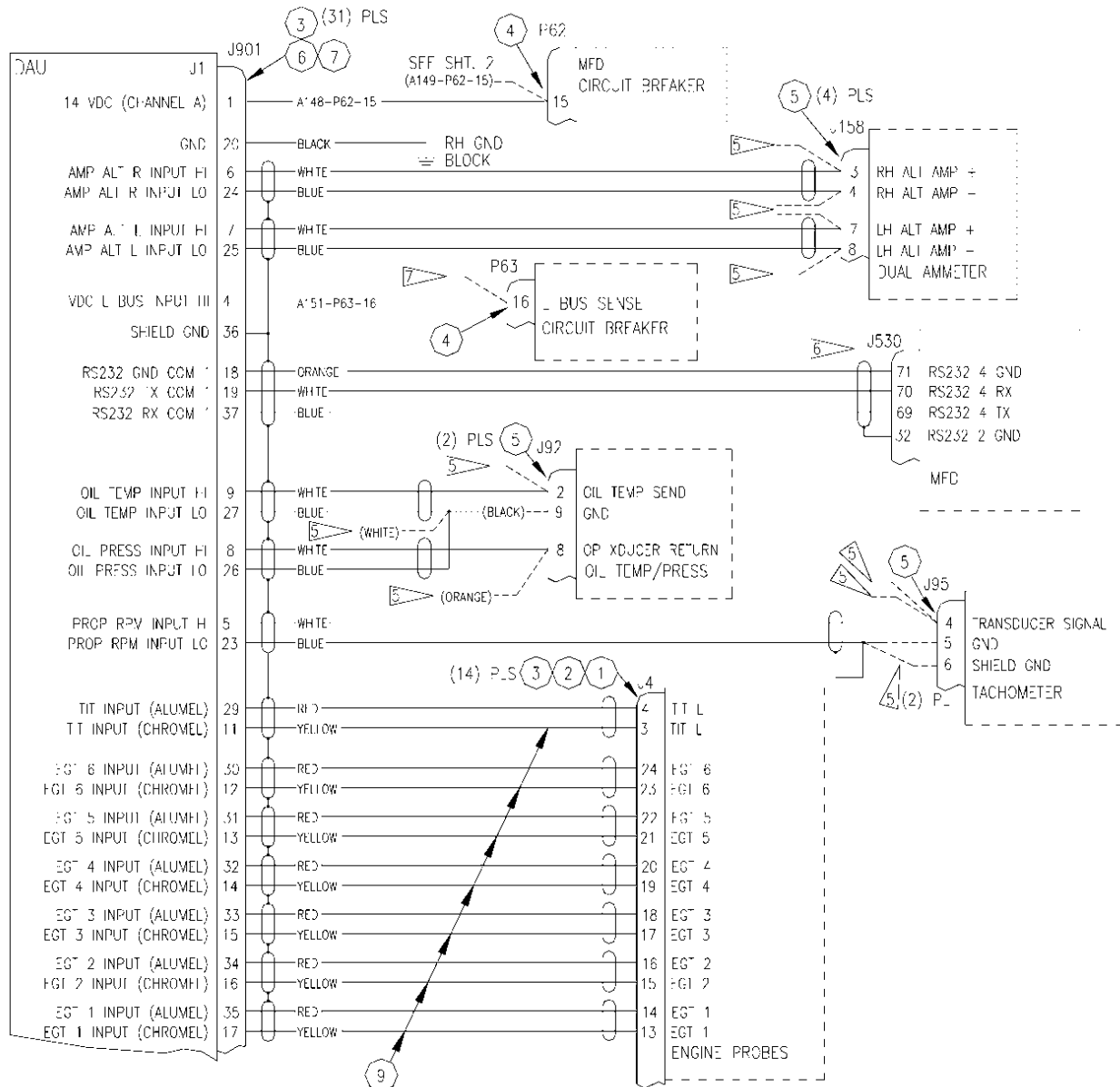


Detail 34 - 16 Primary Flight Display Wiring, Entegra (8/8)

**Detail 34 - 17 EX5000, MFD, Wiring (2/2)**

NOTES:

1. NOT USED.
2. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
3. GROUND WIRES CONNECTED TO THE GROUND TERMINAL BLOCK ARE BLACK.
4. DASHED LINE FOR REFERENCE ONLY.
5. REFERENCE TO WIRING SHOWN ON DETAIL 77-2 (ENGINE INSTRUMENTS WIRING).
6. TERMINALS ARE SUPPLIED WITH POSITRONIC CONNECTOR (DD7870000).
7. REFERENCE TO WIRING SHOWN ON DETAIL 24-4 (CIRCUIT BREAKER PANEL WIRING).



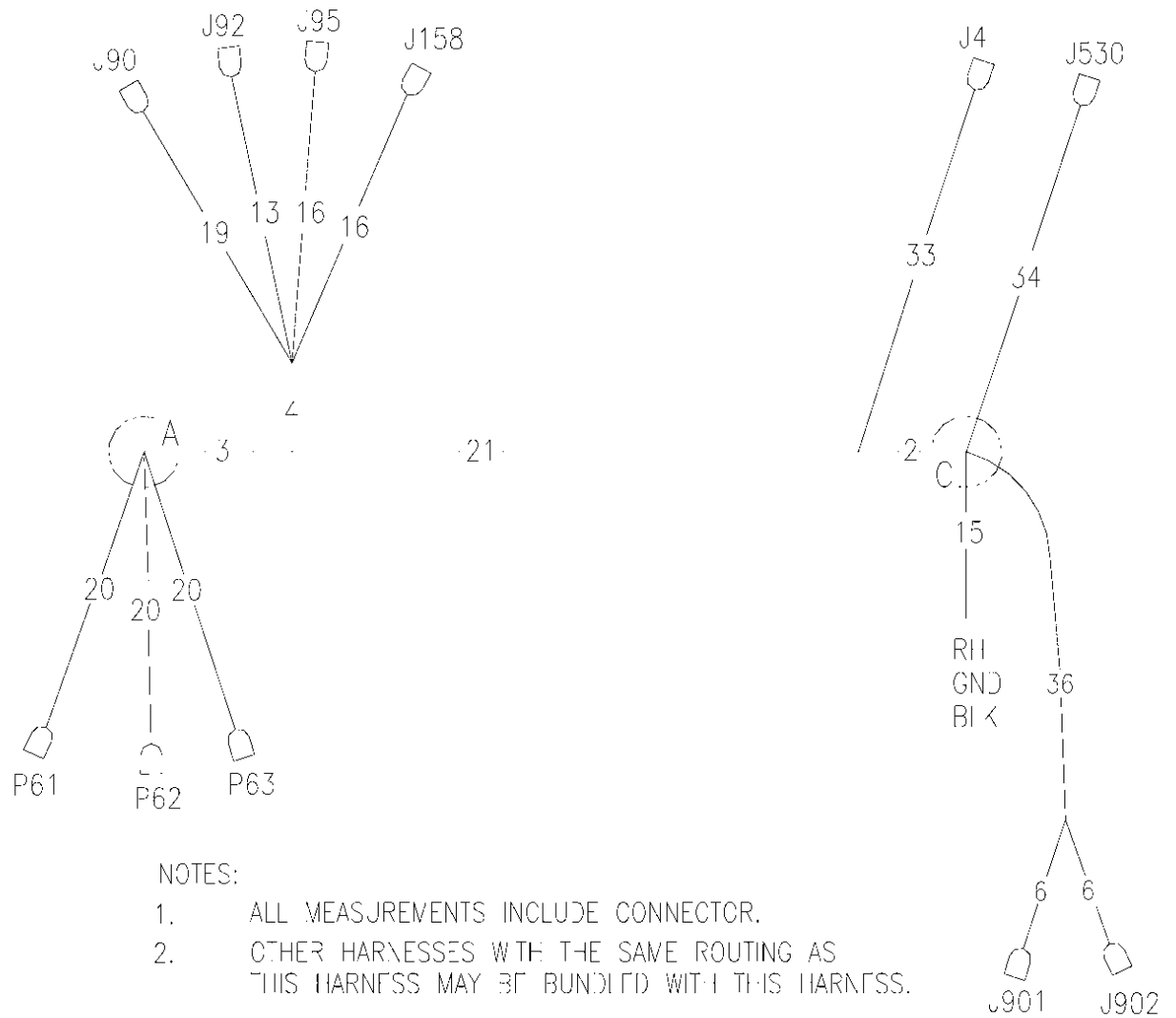
13	6.5' M27500/18-22-3	CABLE, ELECTRIC, SH-ELDED, 22 ga., THREE CONDUCTOR
12	50' M27500/18-22-2	CABLE, ELECTRIC, SH-ELDED, 22 ga., TWO CONDUCTOR
11	65' M27500/16-22-5	WIRE, ELECTRIC, MED. WT., 600 V., 22 ga., WHITE
10	47' M27500/16-22-0	WIRE, ELECTRIC, MED. WT., 600 V., 22 ga., BLACK
9	40' 83892	HERMO-COUPLE WIRES, KX TYPE, OVE PAR (RED & YELLOW) 20 AWG, BELDEN
8	4' FC60180	SOCKET, 6 AWG, POSITRONIC
7	2' 206478-4	BACKSHELL, D-CONNECTOR, SIZE 4
6	2' 205209-1	RECEPTACLE, 37 PIN, HDP-20 CONNECTOR, SIZE 4
5	7' 56362-4	SOCKET, 18-14 AWG, AMP
4	3' 56361-4	PIN, 18-14 AWG, AMP
3	77' 225090-1	SOCKET, 24-20 AWG, AMP
2	1' 226070-1	BACKSHELL, CPC, SIZE 7, AMP
1	1' 226038-1	RECEPTACLE, SIZE 17, 28 PIN, REV. SFX, CPC, FREE HANGING, AMP
ITEM QTY PART NUMBER	REV.	DESCRIPTION or MATERIAL
PARIS LUS		

Detail 34 - 18 Data Acquisition Unit Wiring, EX5000 MFD (LC53344902B) (1/3)



1. REFERENCE TO WIRING SHOWN ON DETAIL 77-2 (ENGINE INSTRUMENTS WIRING).
2. DASHED LINE FOR REFERENCE ONLY.
3. COVER WITH HEAT-SHRINK SLEEVE OVER EXPOSED CRIMPED TERMINAL SECTION.
4. REFERENCE TO WIRING SHOWN ON DETAIL 24-4 (CIRCUIT BREAKER PANEL WIRING).

Detail 34 - 18 Data Aquisition Unit Wiring, EX5000 MFD (2/3)

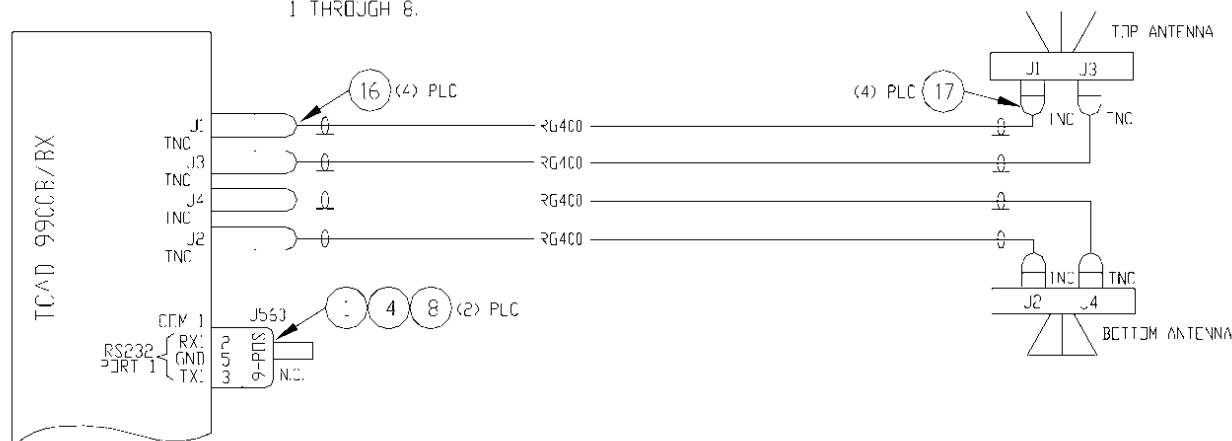


Detail 34 - 18 Data Acquisition Unit Wiring, EX5000 MFD (3/3)

NOTES:

1. NOT USED.
2. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
3. NOT USED.
4. RYAN TCAD SYSTEM IS AN OPTIONAL EQUIPMENT. USE DETERMINED PER 4/C SERIAL NO. ON THE CESSNA CUSTOMER ORDER SHEET.

RYAN KIT P/N 62-2031 MAY BE USED AS ALTERNATIVE PARTS FOR ITEMS 1 THROUGH 8.

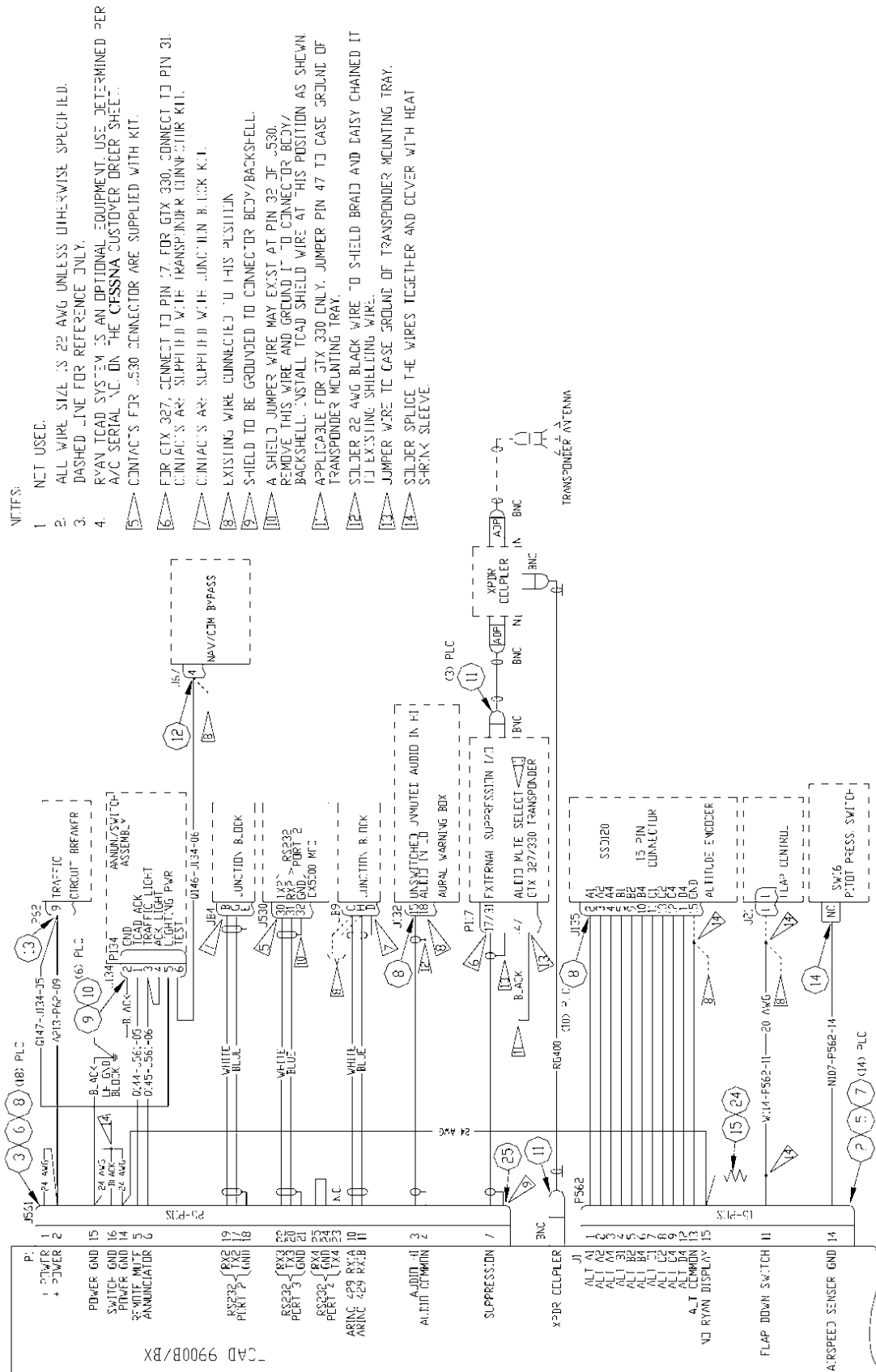


25	1	32C882	TERMINAL, RING, 22-18 AWG, AMP
24	AR	1/4	SLEEVE, HEAT-SHRINKABLE, 1/4"
23	47	M2750C/18-22-2	CABLE, ELECTRIC, SHIEDED, 22 ga., TWO CONDUCTOR
22	34	M2750C/18-22-2	CABLE, ELECTRIC, SHIEDED, 22 ga., SINGLE CONDUCTOR
21	18	M22759/16-24-9	WIRE, ELECTRIC, MED. WT., 600 V, 24 ga., WHITE
20	250	M22759/16-22-9	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., WHITE
19	20	M22759/16-22-0	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., BLACK
18	91	R5400	CABLE, COAXIAL
17	4	31-2381	PLUG, RIGHT ANGLE, TNC, AMPHENOL
16	4	31-2373	PLUG, STRAIGHT, TNC, AMPHENOL
15	1	CF1/4-821	RESISTOR, 82C OHM, 1/4 W, 5 %, KOA
14	1	640917-1	CONNECTOR, QUICK, 187, 22-16 AWG
13	1	66361-4	PIN, 18-14 AWG, AMP
12	1	66362-4	SOCKET, 18-14 AWG, AMP
11	4	225395-6	PLUG, STRAIGHT BNC, RG400, AMP
10	6	794016-1	SOCKET, 24-18 AWG, AMP
9	1	770356-1	RECEPTACLE, 3-POS, FREE-HANGING, AMP
8	31	2C5090-1	SOCKET, 24-20 AWG, AMP
7	14	205089-1	PIN, 24-20 AWG, AMP
6	1	748677-3	BACKSHELL, PLATED PLASTIC, SIZE 3, AMP
5	1	748677-2	BACKSHELL, PLATED PLASTIC, SIZE 2, AMP
4	1	748677-1	BACKSHELL, PLATED PLASTIC, SIZE 1, AMP
3	1	205207-4	RECEPTACLE, D-SUB, 25 POS, AMP
2	1	205206-1	PLUS, D-SUB, 15-POS, AMP
1	1	205203-1	RECEPTACLE, D-SUB, 9-POS, AMP

ITEM QTY PART NUMBER REV. DESCRIPTION or MATERIAL

PARTS LIST

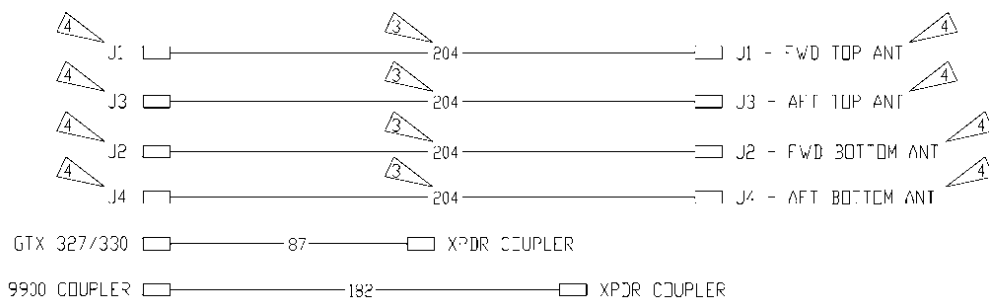
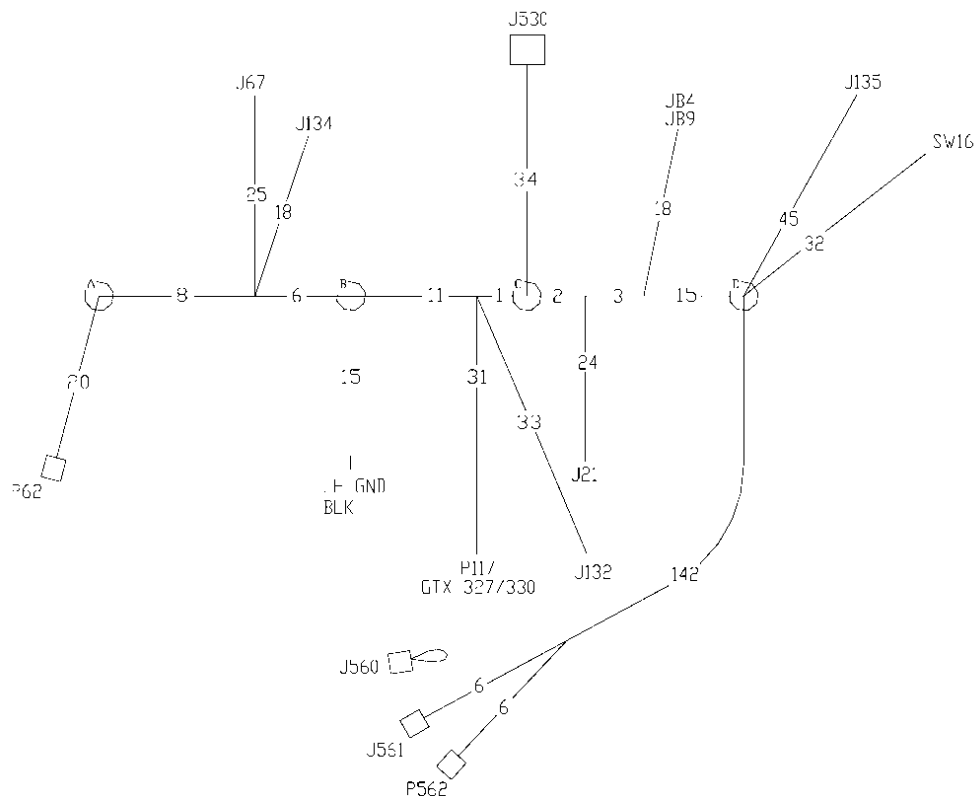
Detail 34 - 19 Ryan TCAD Wiring (LB53345201A) (1/3)



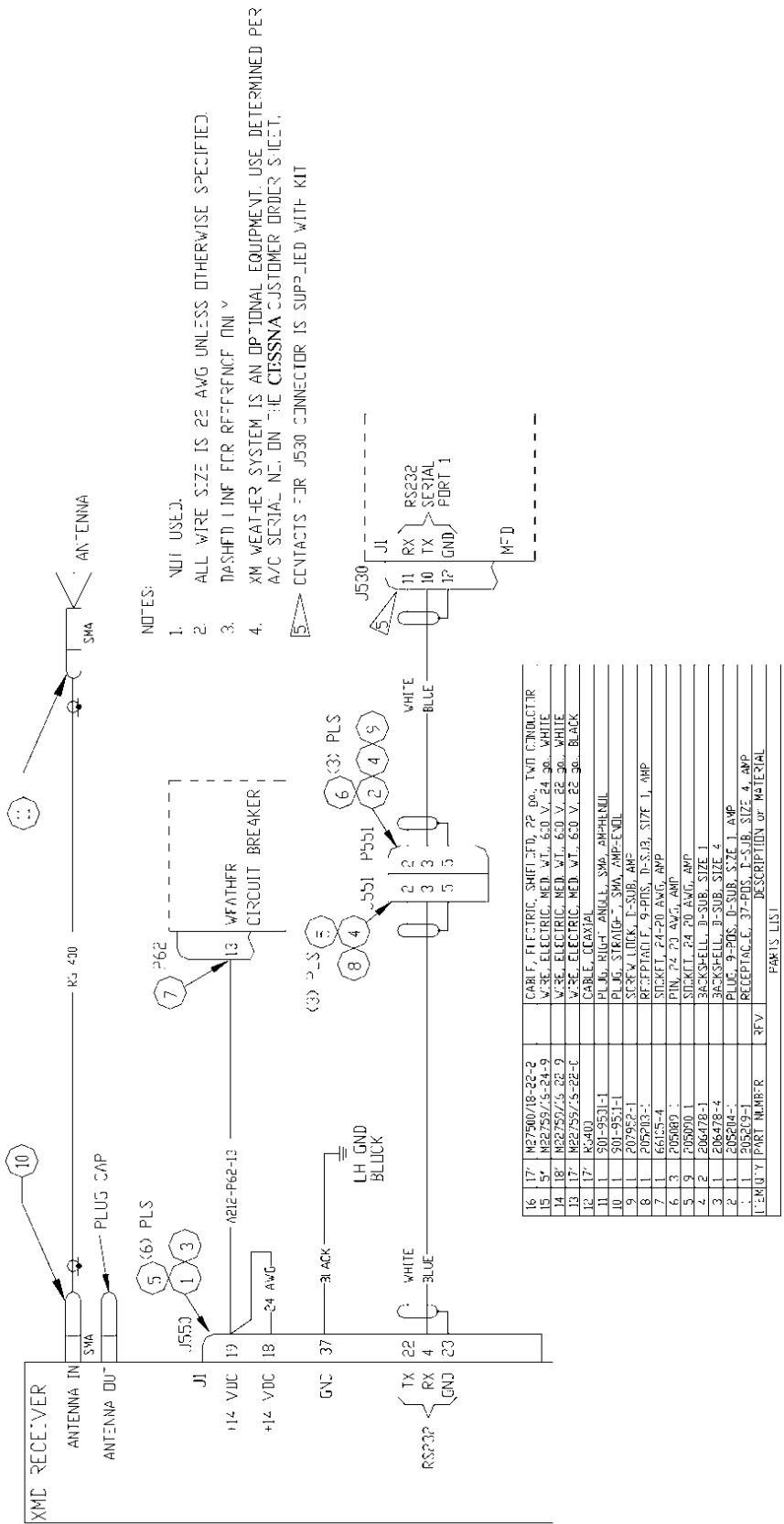
Detail 34 - 19 Ryan TCAD Wiring (2/3)

NOTES:

1. ALL MEASUREMENTS INCLUDE CONNECTOR.
2. THIS HARNESS MAY BE RUN IN SAME BUNDLE AS OTHER HARNESSES IN SAME LOCATION.
3. EACH OF THESE FOUR COAX CABLE LENGTHS MUST BE WITHIN + 1.0 INCH FROM SPECIFIED LENGTH SHOWN.
4. LABEL EACH CONNECTOR END AS SHOWN.



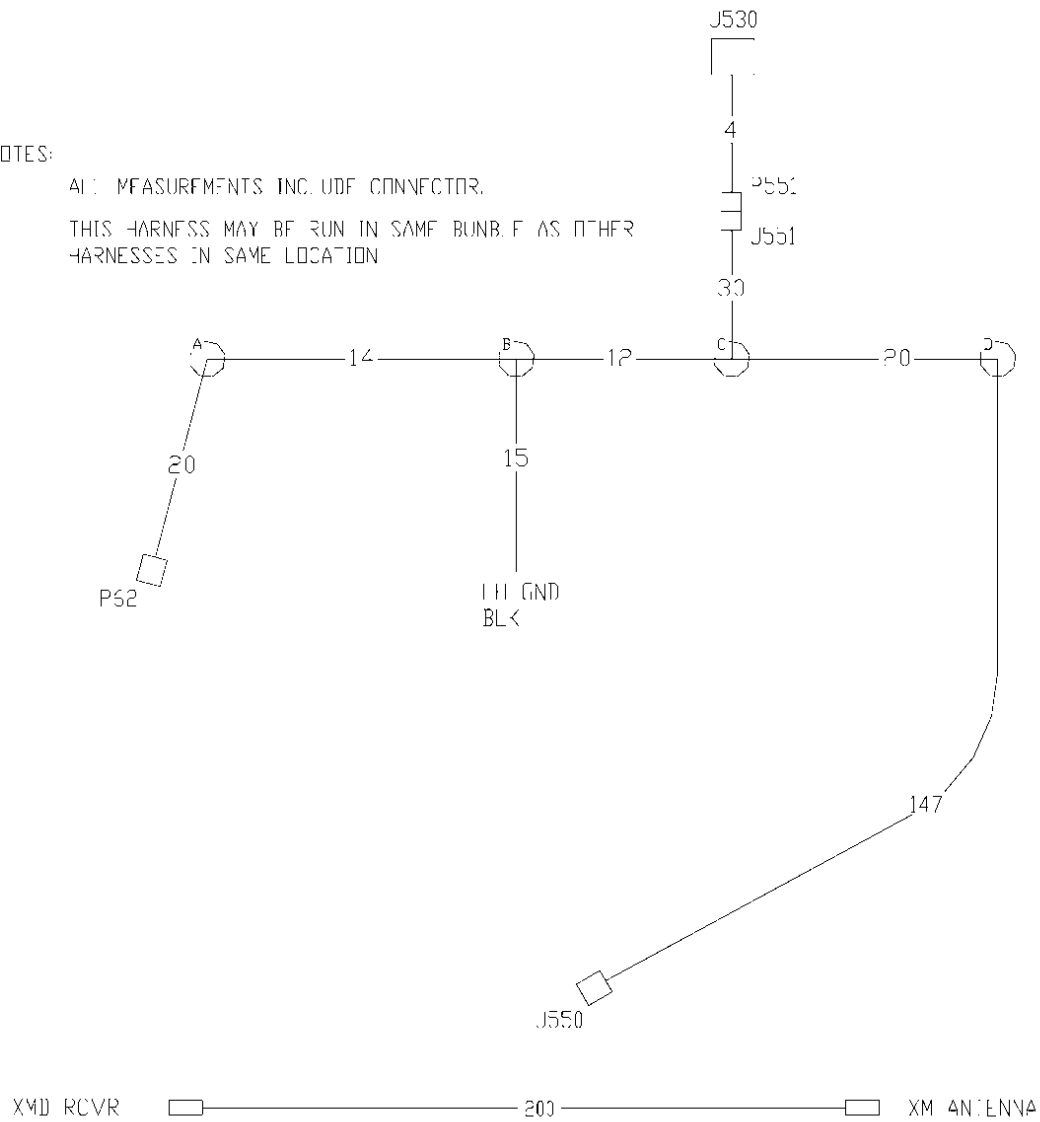
Detail 34 - 19 Ryan TCAD Wiring (3/3)



Detail 34 - 20 XM Weather Wiring (LB53345101-) (1/2)

NOTES:

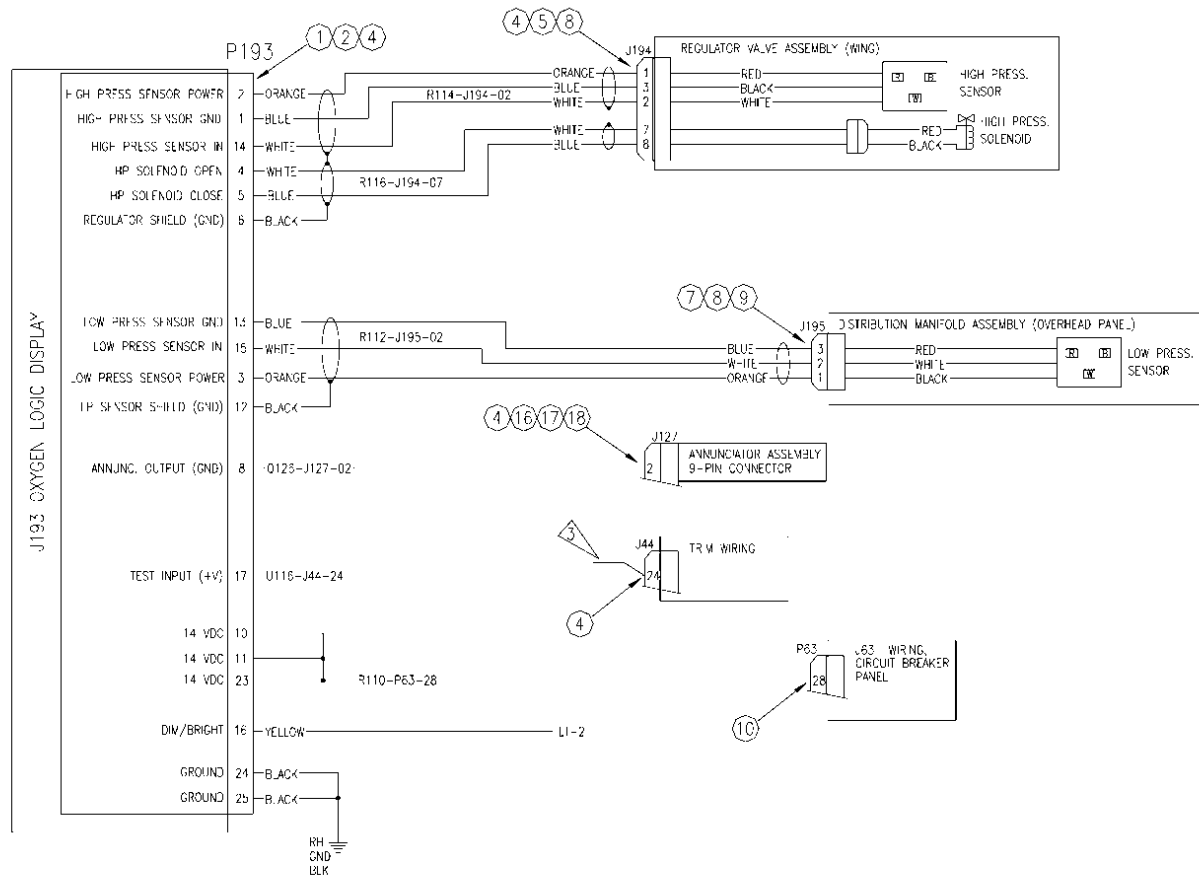
1. ALL MEASUREMENTS INCLUDING CONNECTOR.
2. THIS HARNESS MAY BE RUN IN SAME BUNDLE AS OTHER HARNESSES IN SAME LOCATION.

**Detail 34 - 20 XM Weather Wiring (2/2)**

- End of Chapter -

NOTES:

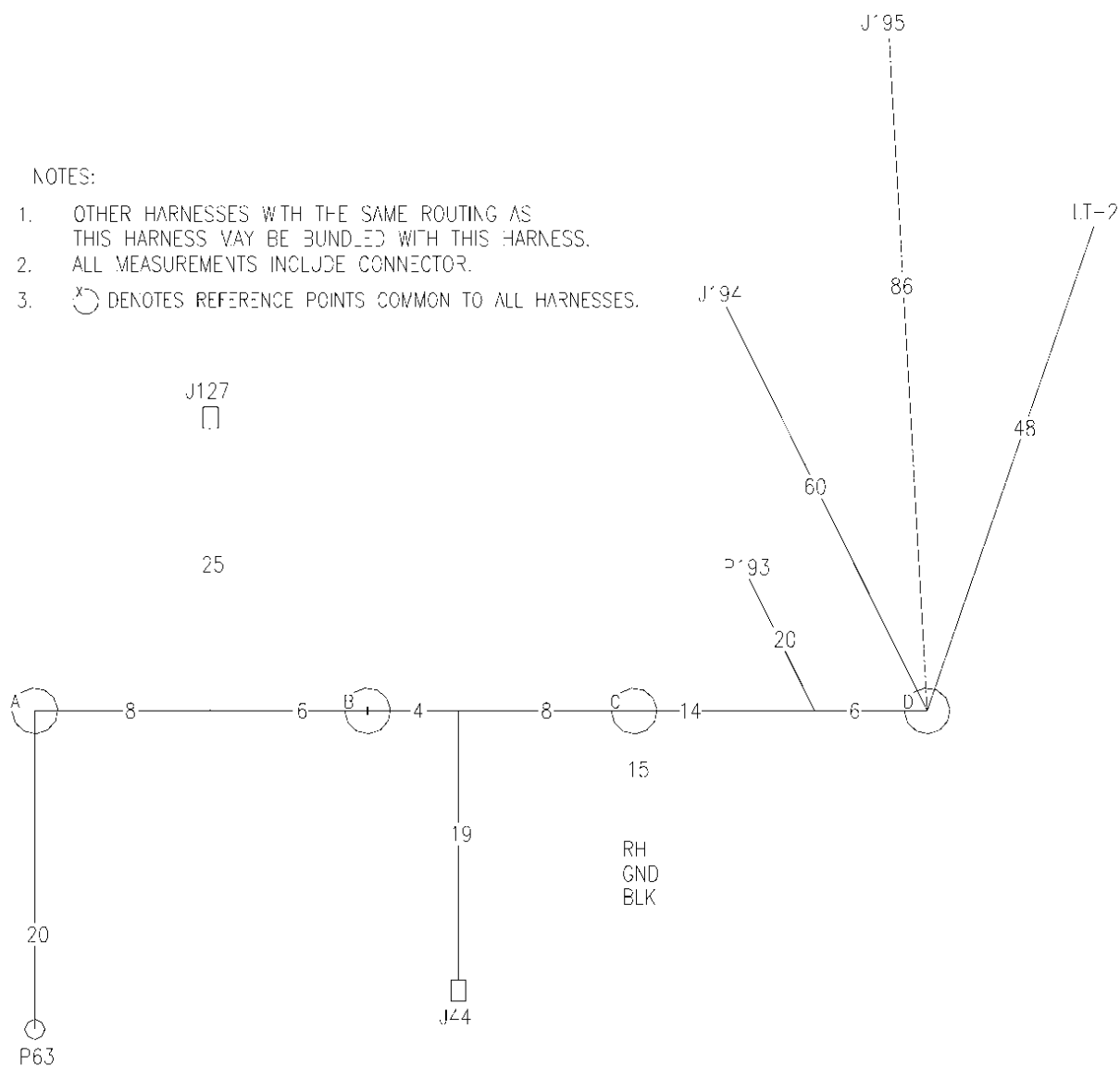
1. THE OXYGEN SYSTEM IS AN OPTION AVAILABLE TO THE CUSTOMER.
JST DETERMINED PER AIRCRAFT SERIAL NUMBER ON THE
CESSNA CUSTOMER ORDER.
2. NOT USED.
3. THIS WIRE NOT PRESENT ON MODEL 400 AIRCRAFT.
4. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.



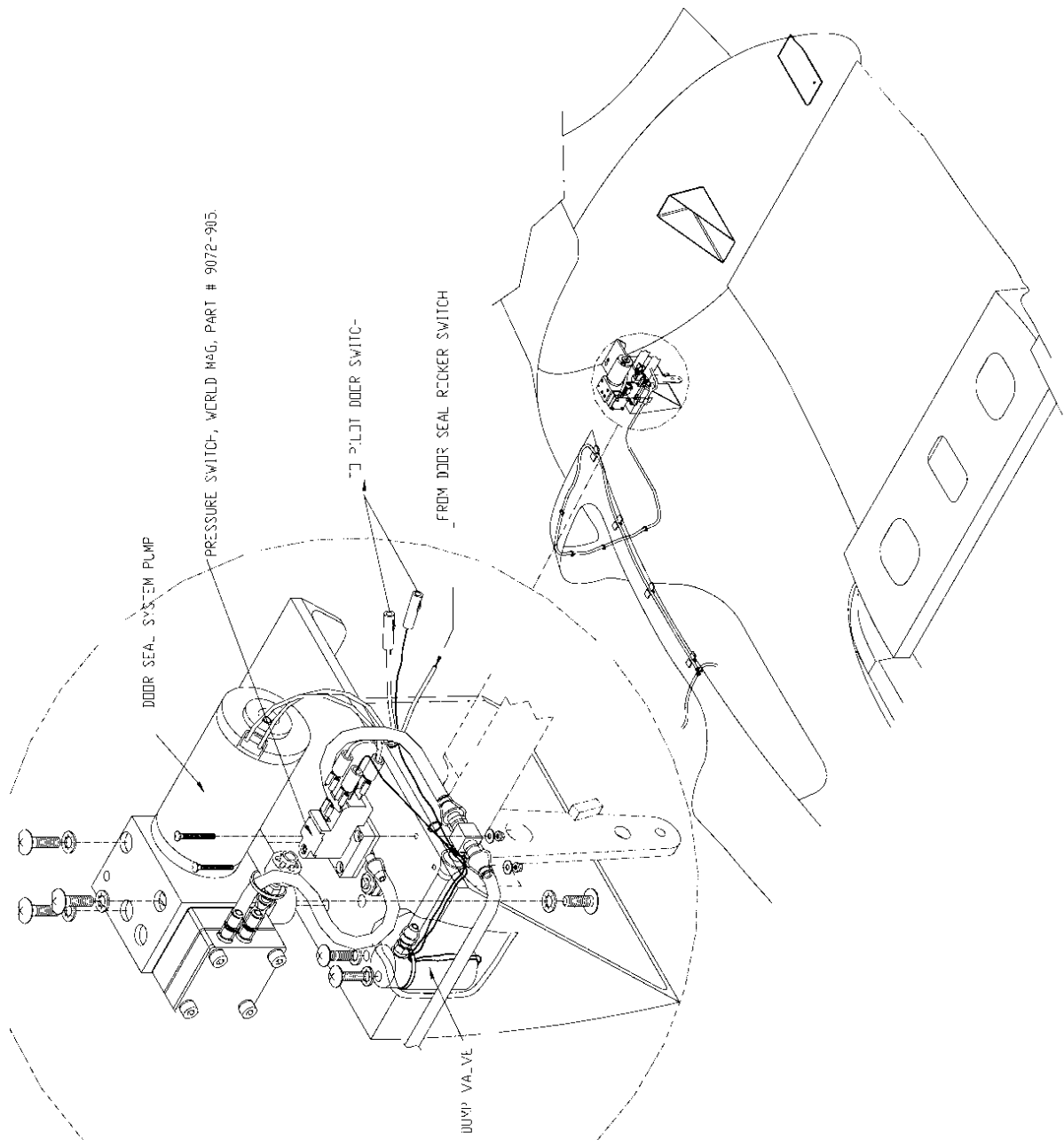
Detail 35 - 1 Oxygen System Wiring (LB53351000C) (1/2)

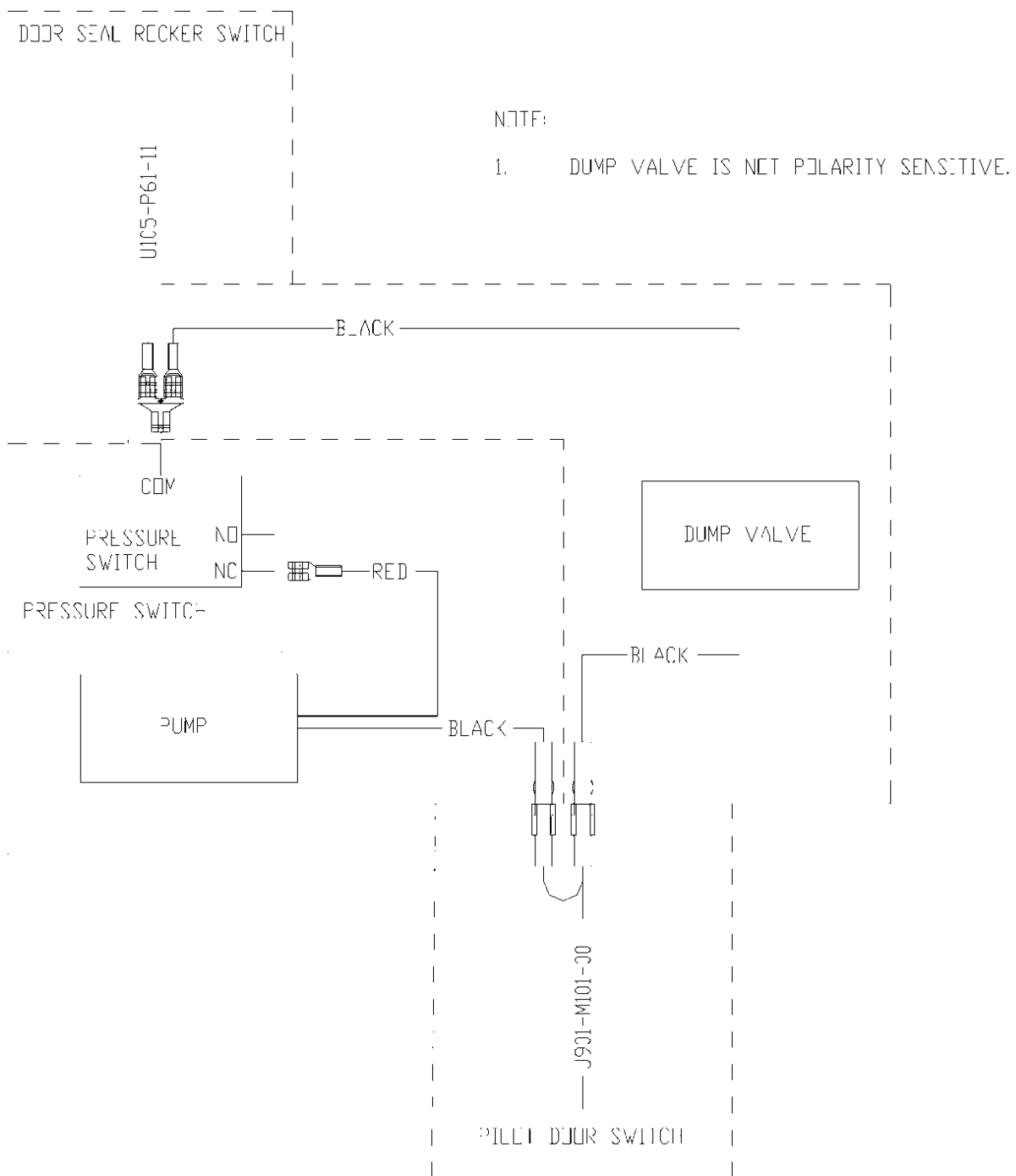
NOTES:

1. OTHER HARNESSSES WITH THE SAME ROUTING AS THIS HARNESS MAY BE BUNDLED WITH THIS HARNESS.
2. ALL MEASUREMENTS INCLUDE CONNECTOR.
3.  DENOTES REFERENCE POINTS COMMON TO ALL HARNESSSES.

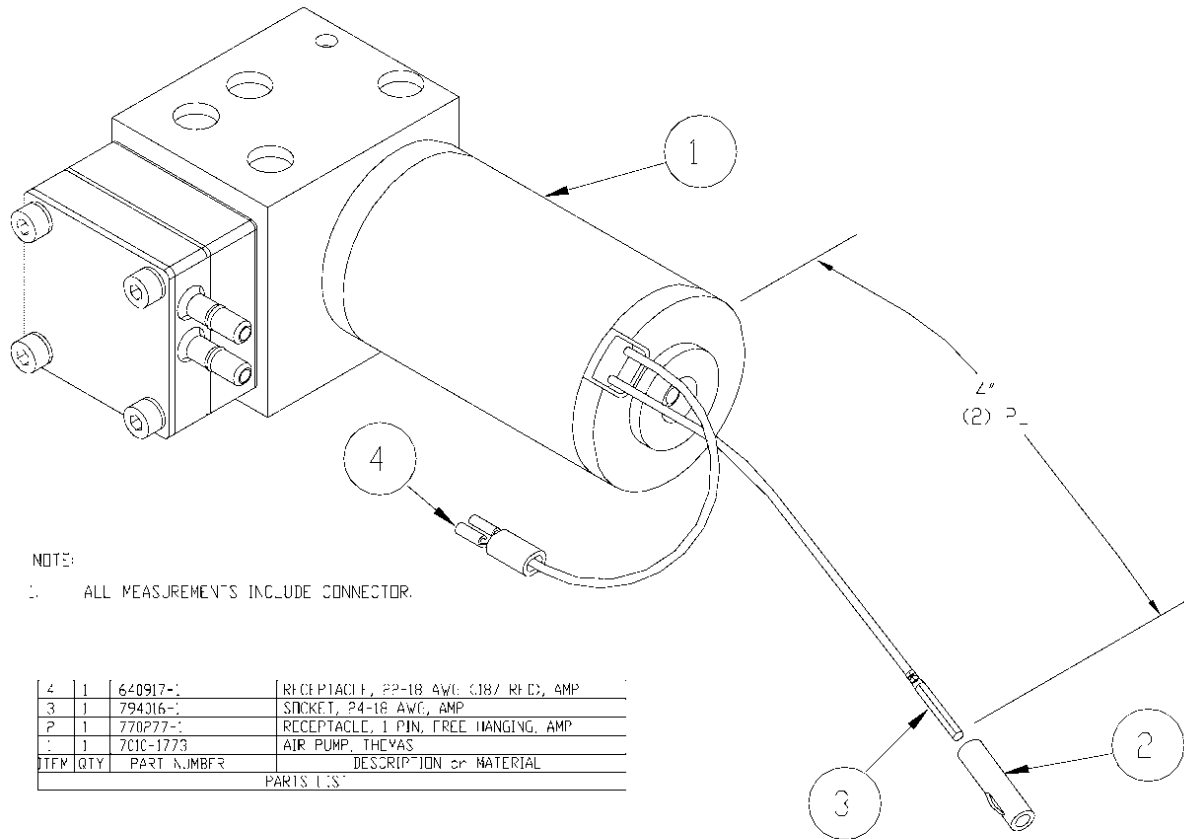
**Detail 35 - 1 Oxygen System Wiring (2/2)**

- End of Chapter -

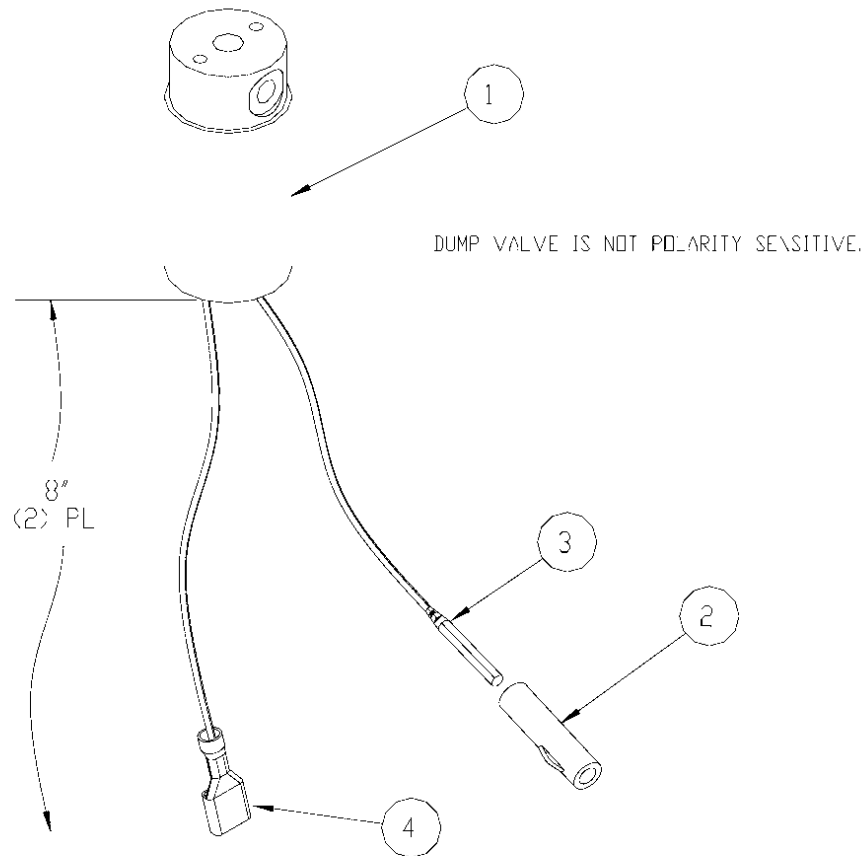
**Detail 52 - 1 Door Seal System (LA53254500-) (1/1)**



Detail 52 - 2 Door Seal Pump System Wiring (LA53254503B) (1/1)



Detail 52 - 3 Door Seal System Pump (LA53254507A) (1/1)

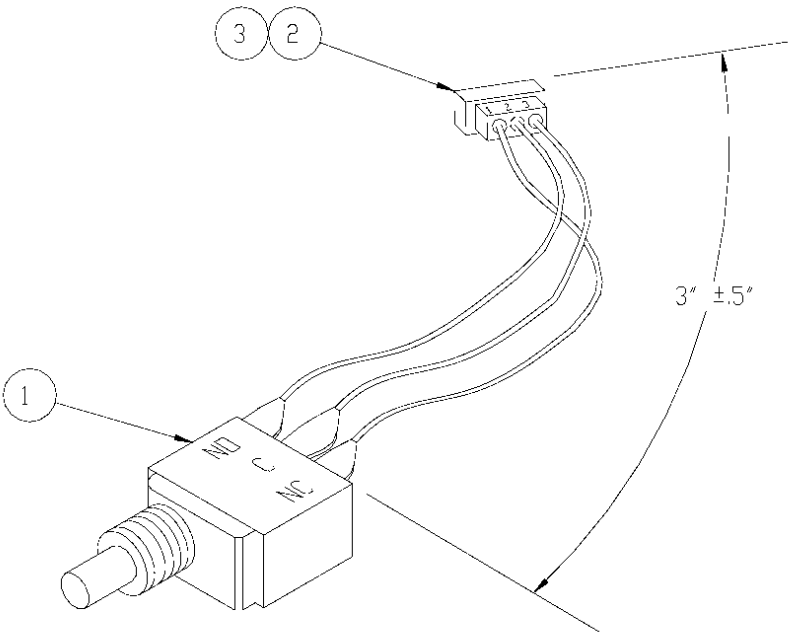


4	1	64C91/-1	RECEPTACLE, 2P 18 AWG (187 RCD), AMP
3	1	794016-1	SOCKET, 2P-18 AWG, AMP
2	1	77C277-1	RECEPTACLE, 2 PIN, FREE HANGING, AMP
1	1	971122	DUMP VALVE, 12VDC, KIP
ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL
PARTS LIST			

Detail 52 - 4 Door Seal System Dump Valve (LA53254505A) (1/1)

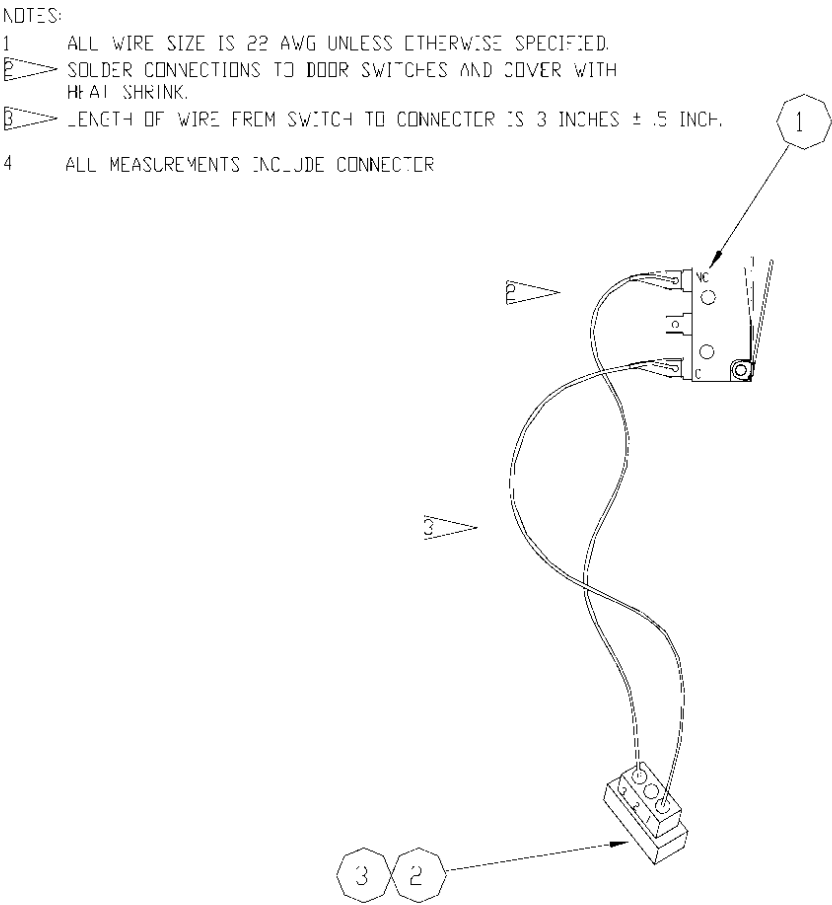
NOTES:

- 1. ALL WIRE WILL BE MIL W 22/59/16 NON SHIELDED AND MIL-C-27500/18 SHIELDED, EXCEPT AS NOTED. ALL WIRE SIZE IS 22 AWG UNLESS OTHERWISE SPECIFIED.
- 2. ALL MEASUREMENTS INCLUDE CONNECTOR.



3	:	770331-1	PLUG HOUSING, 3-PIN FREE HANGING	AMP
2	:	794017-1	PIN 24-20 AWG	AMP
1	:	8943128	SWITCH, SPDT, (MCM) (NEWARK H 237122)	EATCH.
ITEM	QTY	PART NUMBER	DESCRIPTION of MATERIAL	SUPPLIER REF.
PARTS LIST				

Detail 52 - 5 Cabin Door Switch Assembly (LA53514201B) (1/1)



ITEM	QTY	PART NUMBER	DESCRIPTION or MATERIAL
3	1	77933-1	P.LUG HOUSING, 3 PIN FREE HANGING, AMP
2	2	79407-1	PIN, 24-20 AWG, AMP
1	1	DCIC-A1-3	SWITCH, SUBMINIATURE, WATERPROOF, 5 AMP, CHERRY
PARTS LIST			

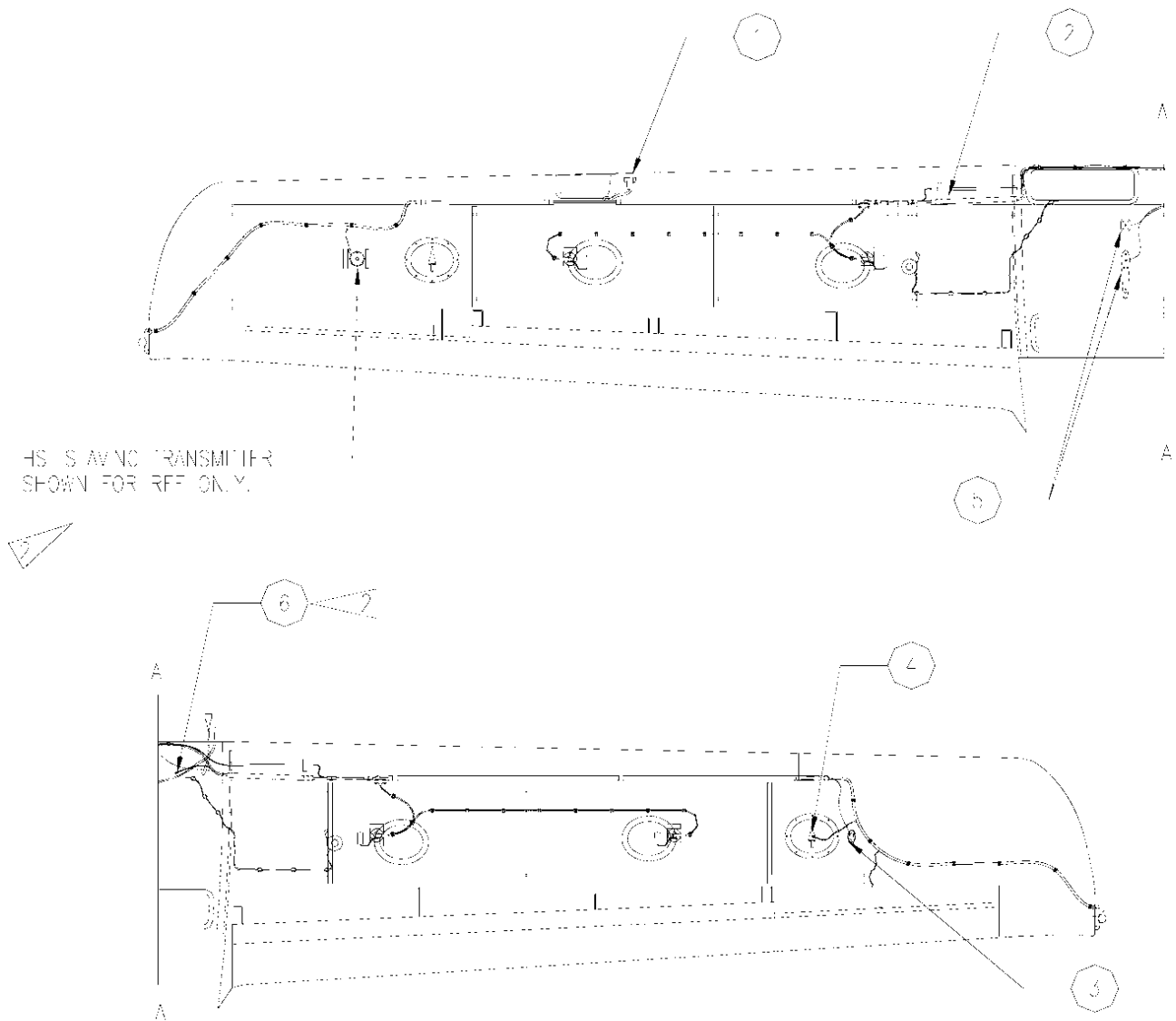
Detail 52 - 6 Baggage Door Switch Assembly (LA53514203B) (1/1)

- End of Chapter -

	PS W/O SPEED BRAKES W/ X-RAY ILL.	HS W/ SPEED BRAKES W/ X-RAY ILL.	"INTERIOR W/O SPEED BRAKES W/ X-RAY ILL."	IN ILL W/ SPEED BRAKES W/ X-RAY ILL.	HS W/O SPEED BRAKES	HS W/ SPEED BRAKES	"INTERIOR W/O SPEED BRAKES"	INTERIOR W/ SPEED BRAKES		
1	1	1	1					SM 500-350-1	WIRE HARNESS, X-RAY, LAMP TO BE LAST, CRPST	
2	1	1	1					SM 500-350-3	WIRE HARNESS, X-RAY, POWER G BALLAS, LAMPST	
3			1					BS751000-7	A WING, WING ASSEMBLY, (INTERIOR SPLIT) BRAKE BOX OPTION	
4								BS751000-5	A WING, WING ASSEMBLY, (INTERIOR SPLIT) BRAKE BOX OPTION	
5		1				1		BS751000-3	A WING, WING ASSEMBLY, (INTERIOR SPLIT) BRAKE BOX OPTION	
6								BS751000	A WING, WING ASSEMBLY, (HS W/ SPLIT BRAKE BOX OPTION)	
7		1						BS751000	A WING, WING ASSEMBLY, (HS W/ SPLIT BRAKE BOX OPTION)	
8		1	1			1		BS751000	C ANTENNA INSTALLATION ASSEMBLY	
9		1	1			1		BS7514000	CAT PROTECT INSTALLATION ASSEMBLY	
10		1	1			1		BS7512000	K PROTECT ASSEMBLY	
11		1	1			1		BS7516000	R CONTROL WING ASSEMBLY	
12		1	1			1		BS7513000	C SAIL MARKING INSTALLATION ASSEMBLY	
13	QTY	QTY	QTY	QTY	QTY	QTY	QTY	PART NUMBER	REMARKS	DESCRIPTION OF MATERIAL

Detail 57 - 1 Wing Electrical System Assembly (LB57310000A1) (1/9)

WING ELECTRICAL SYSTEM ASSEMBLY (S WITHOUT SPEED BRAKES OPTION INSTALLED)

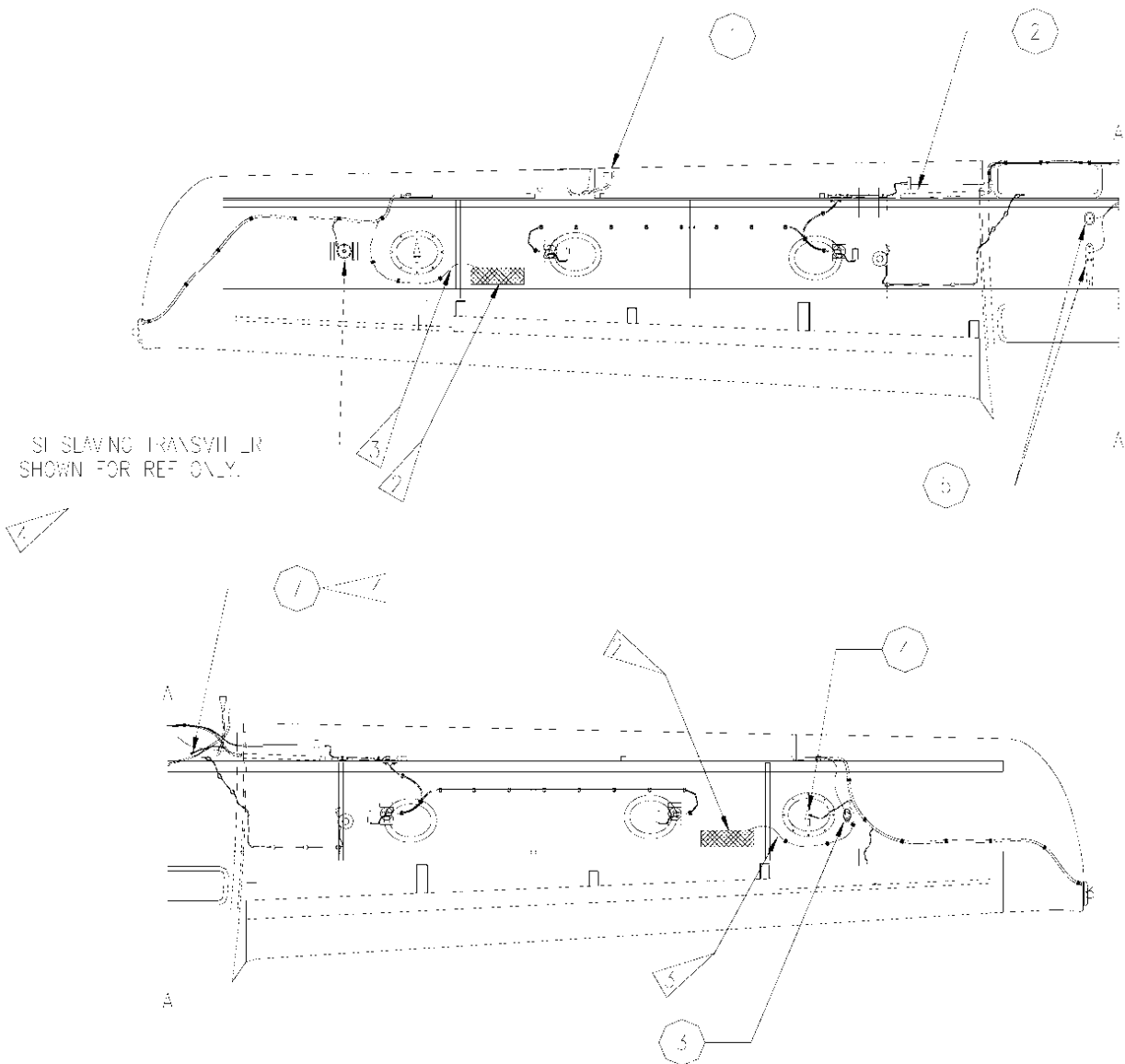


NOTES:

1. SEE INDIVIDUAL ASSEMBLIES FOR INSTALLATION DETAILS.
2. USE OF FUEL VALVE SWITCH ARCHIVE SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.
3. X-RAY LANDING LIGHTS ARE OPTIONAL EQUIPMENT.

Detail 57 - 1 Wing Electrical System Assembly (2/9)

WING ELECTRICAL SYSTEM ASSEMBLY HS WITH SPEED BRAKE OPTION INSTALLED

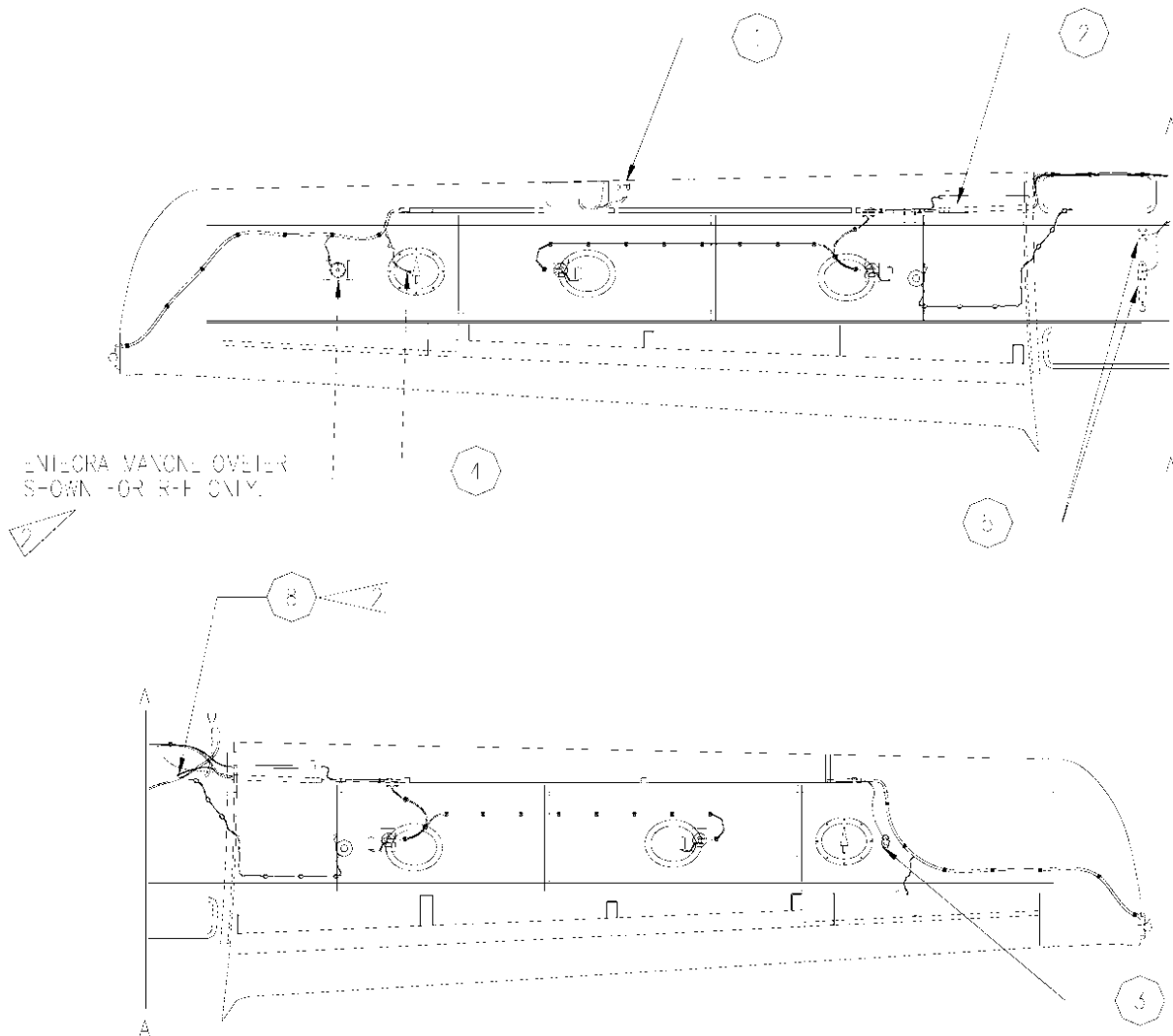


NOTES:

1. SEE INDIVIDUAL ASSEMBLIES FOR INSTALLATION DETAILS.
2. OPTIONAL SPEED BRAKE BOXES.
3. THIS WING PRESENT ONLY IF SPEED BRAKE BOX OPTION IS CHOSEN.
4. USE DETERMINED PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.

Detail 57 - 1 Wing Electrical System Assembly (3/9)

WIND ELECTRICAL SYSTEM ASSEMBLY
INTEGRATION OF SPEED BRAKES ON AS A 12

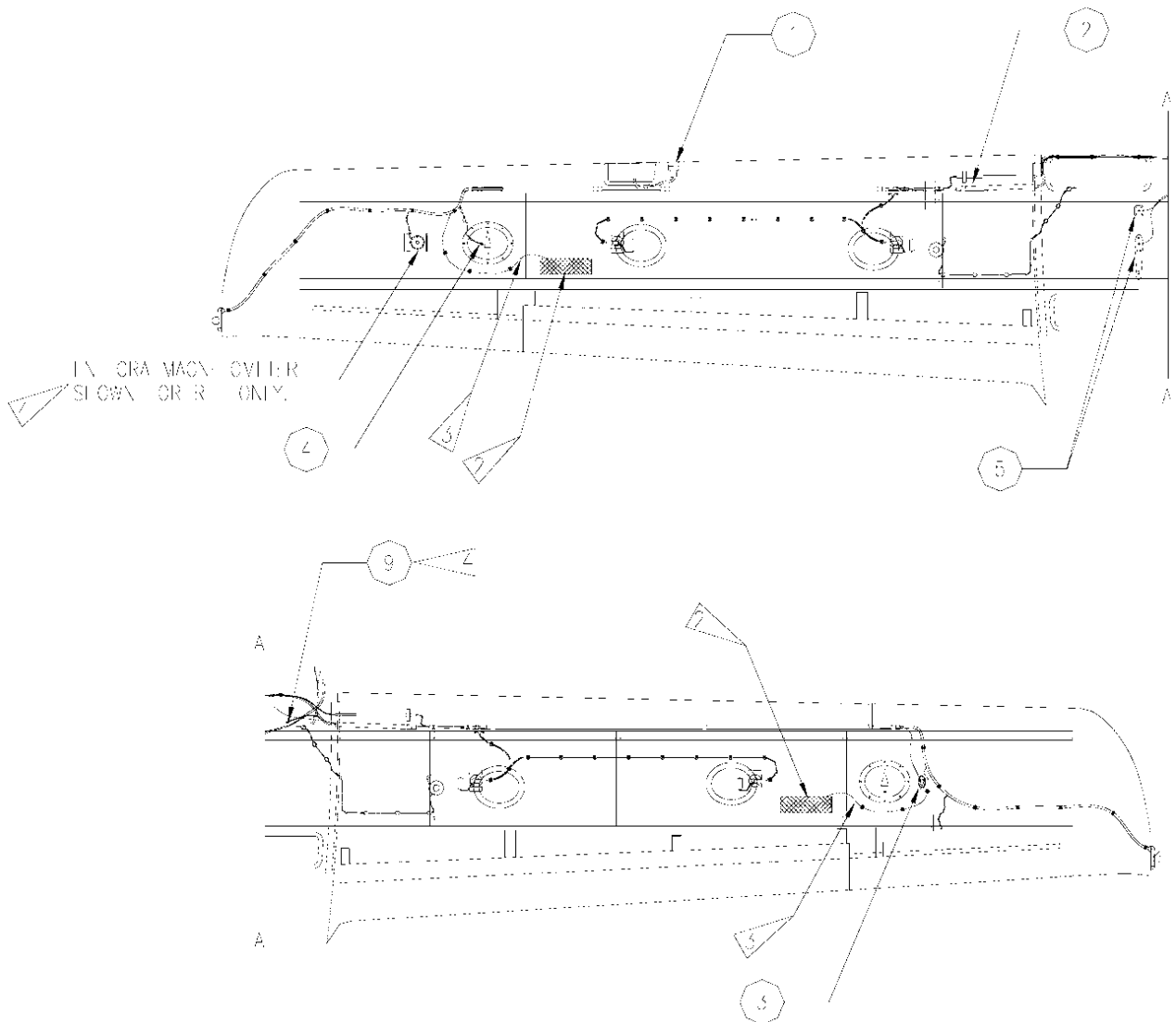


NOTES:

2. SEE ADVISORY ASSEMBLY'S FOR INSTALLATION DETAILS.
3. USE DETERMINED PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.

Detail 57 - 1 Wing Electrical System Assembly (4/9)

WING ELECTRICAL SYSTEM ASSEMBLY ENTIRE WITH SPEED BRAKE OPTION INSTALLED

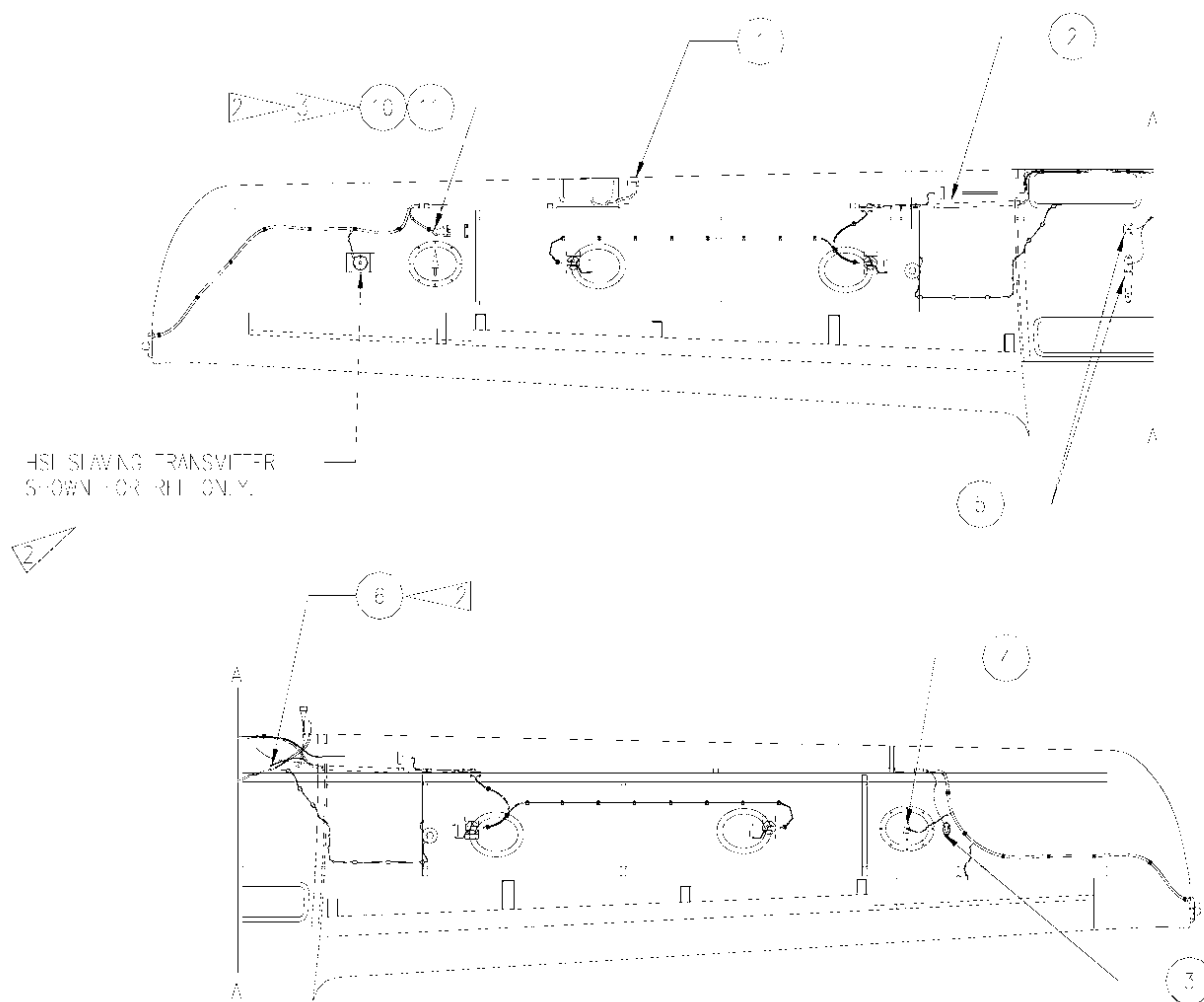


- NOTES:
1. SEE INDIVIDUAL ASSEMBLY OR INSTALLATION DETAILS.
 2. OPTIONAL SPEED BRAKE BOXES.
 3. THIS WIRING PRESENT ONLY IF SPEED BRAKE BOX OPTION IS CHOSEN.
 4. USE DETERMINED PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.

Detail 57 - 1 Wing Electrical System Assembly (5/9)

WING ELECTRICAL SYSTEM ASSEMBLY

WITHOUT SPEED BRAKES & WHEEL X-ON AND NO LOC OPTION INSTALLED



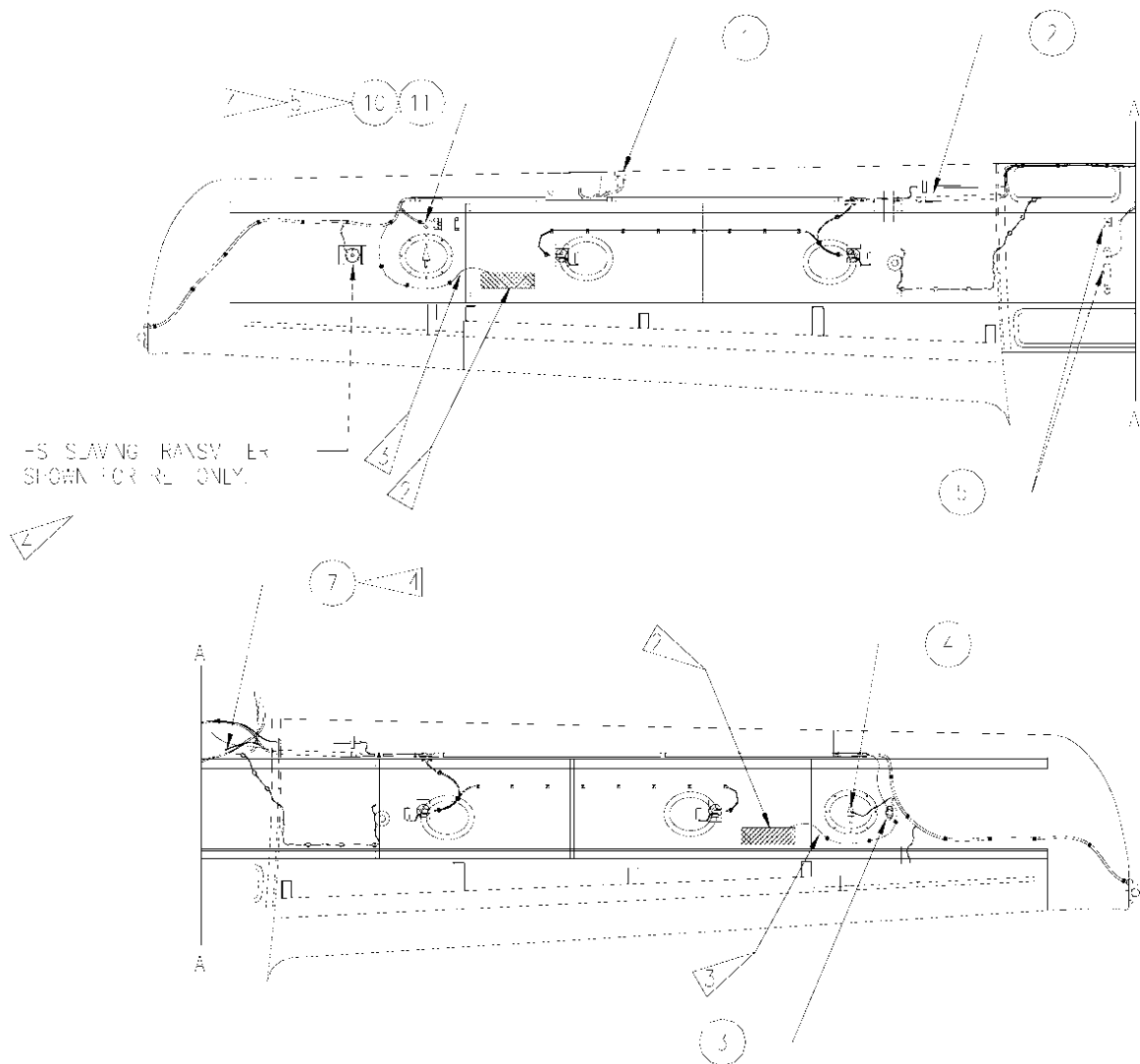
NOTES:

1. SEE INDIVIDUAL ASSEMBLIES FOR INSTALLATION DETAILS.
2. JUST DETERMINED FOR AIRCRAFT SERIAL NUMBER ON THE CESSNA CUS OVER ORDER SHEET.
3. X-ON AND NO LOC IS AN OPTIONAL EQUIPMENT. INSTALL WIRE HARNESS ASSEMBLIES (TEVS 10 & 11) FROM AND NO LOC POSITION TO OUTBOARD ACCESS PANEL AREA AS SHOWN. ROUT WIRE HARNESS THROUGH SPAR CONDUIT TOGETHER WITH OTHER WIRE HARNESS.

Detail 57 - 1 Wing Electrical System Assembly (6/9)

WING ELECTRICAL SYSTEM ASSEMBLY

-S W - SPEED BRAKES OPTION & W - XENON LANDING LIGHT- OPTION INSTALLED

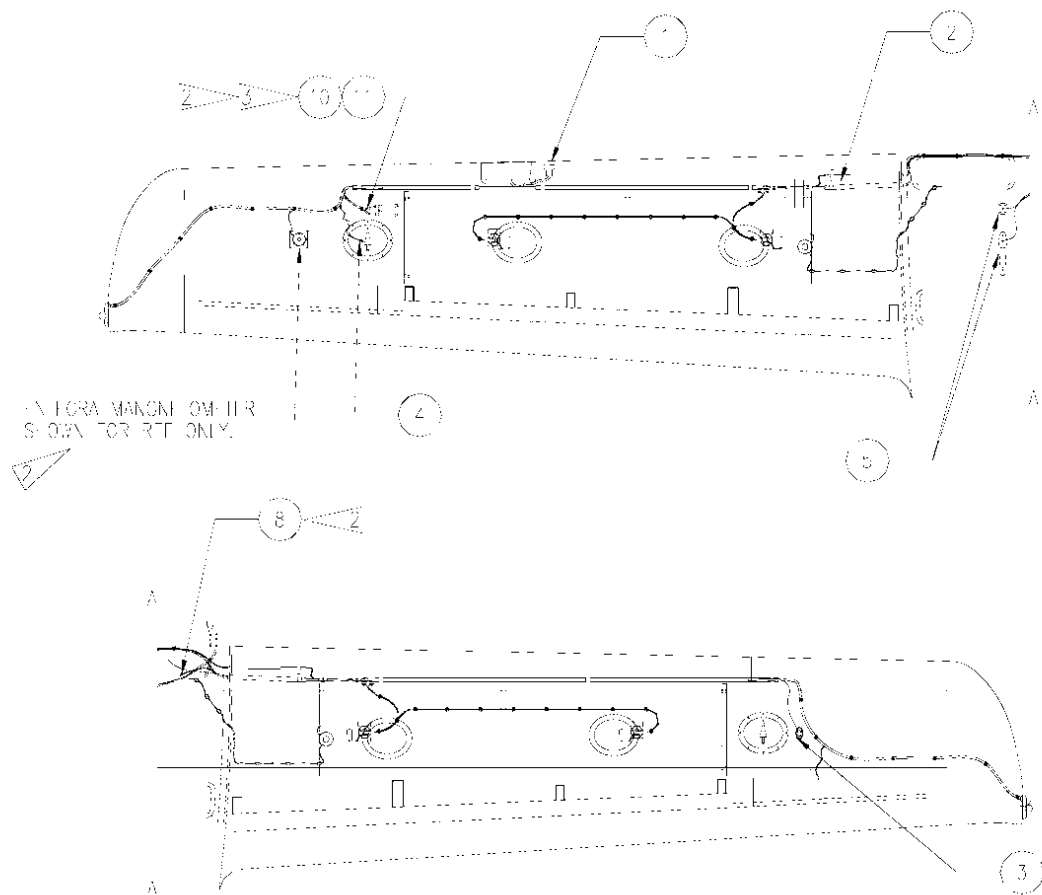


NOTES:

1. SEE INDIVIDUAL ASSEMBLYS FOR INSTALLATION DETAILS.
2. OPTIONAL SPEED BRAKE BOXES.
3. THIS WIRING PATTERN ONLY. SPEED BRAKE BOX OPTION IS CLOSING.
4. USE DETERMINED FOR AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.
5. XENON LANDING LIGHT IS AN OPTIONAL EQUIPMENT. INSTALL WIRE HARNESS ASSEMBLIES (EVS 10 & 11) - ROV LANDING LIGHT POSITION TO OUTBOARD ACCESS PANEL AREA AS SHOWN. ROUT WIRE HARNESS THROUGH TWO SPAR CONDUIT TOGETHER WITH OTHER WIRE HARNESS.

Detail 57 - 1 Wing Electrical System Assembly (7/9)

WING ELECTRICAL SYSTEM ASSEMBLY
 ENHANCED WING SPEED BRAKES OPTION & WITH XENON LANDING LIGHT OPTION INSTALLED



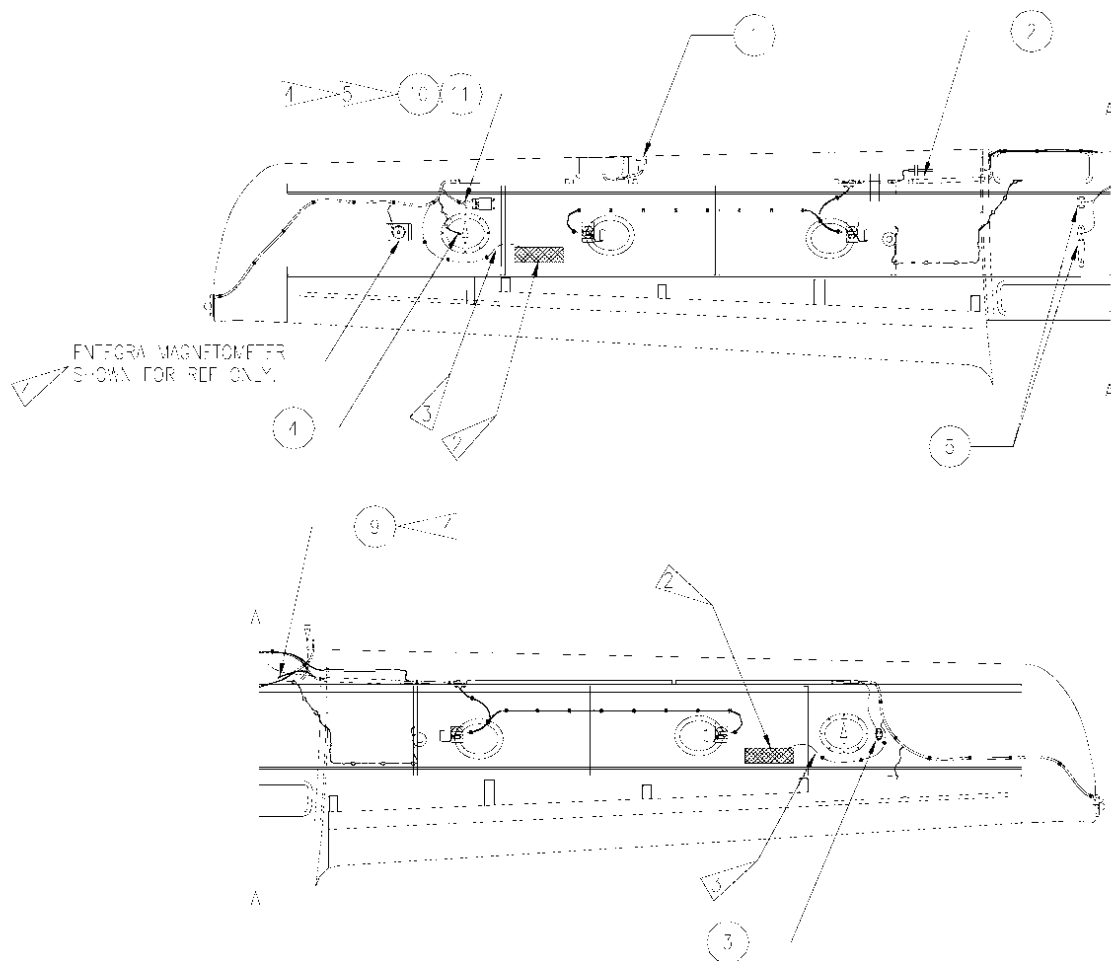
NOTES:

1. SEE NOVELLA ASSEMBLY FOR INSTALLATION DETAILS.
2. USE IDENTIFIED PER ABOVE SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.
3. XENON LANDING LIGHT IS AN OPTIONAL EQUIPMENT. INSTALL WIRE HARNESS ASSEMBLIES (TEWS 10 & 11) FROM LANDING LIGHT POSITION TO OUTBOARD ACCESS PANEL AREA AS SHOWN. ROUTE WIRE HARNESS THROUGH FWD SPAR CONDUIT TOGETHER WITH OTHER WIRE HARNESS.

Detail 57 - 1 Wing Electrical System Assembly (8/9)

WING ELECTRICAL SYSTEM ASSEMBLY

ALTCRA WITH SPEED BRAKE OPTION & WITH XENON AND NO LIGHT OPTION (AS APPLIED)



NOTES:

1. SEE INDIVIDUAL ASSEMBLIES FOR INSTALLATION DETAILS.
2. OPTIONAL SPEED BRAKE BOXES.
3. THIS WIRING PRESENT ONLY - SPEED BRAKE BOX OPTION IS CHOSEN.
4. USE DETERMINED PER AIRCRAFT SERIAL NUMBER ON THE CESSNA CUSTOMER ORDER SHEET.
5. XENON AND NO LIGHT IS AN OPTIONAL EQUIPMENT. INSTALL WIRE HARNESS ASSEMBLIES (VS 10 & 11) FROM LANDING LIGHTS ON TO OUTBOARD ACCESS PANEL AREA AS SHOWN. ROUTE WIRE HARNESS TO ROUGH FWD STAR CONDUIT TOGETHER WITH OTHER WIRE HARNESS.

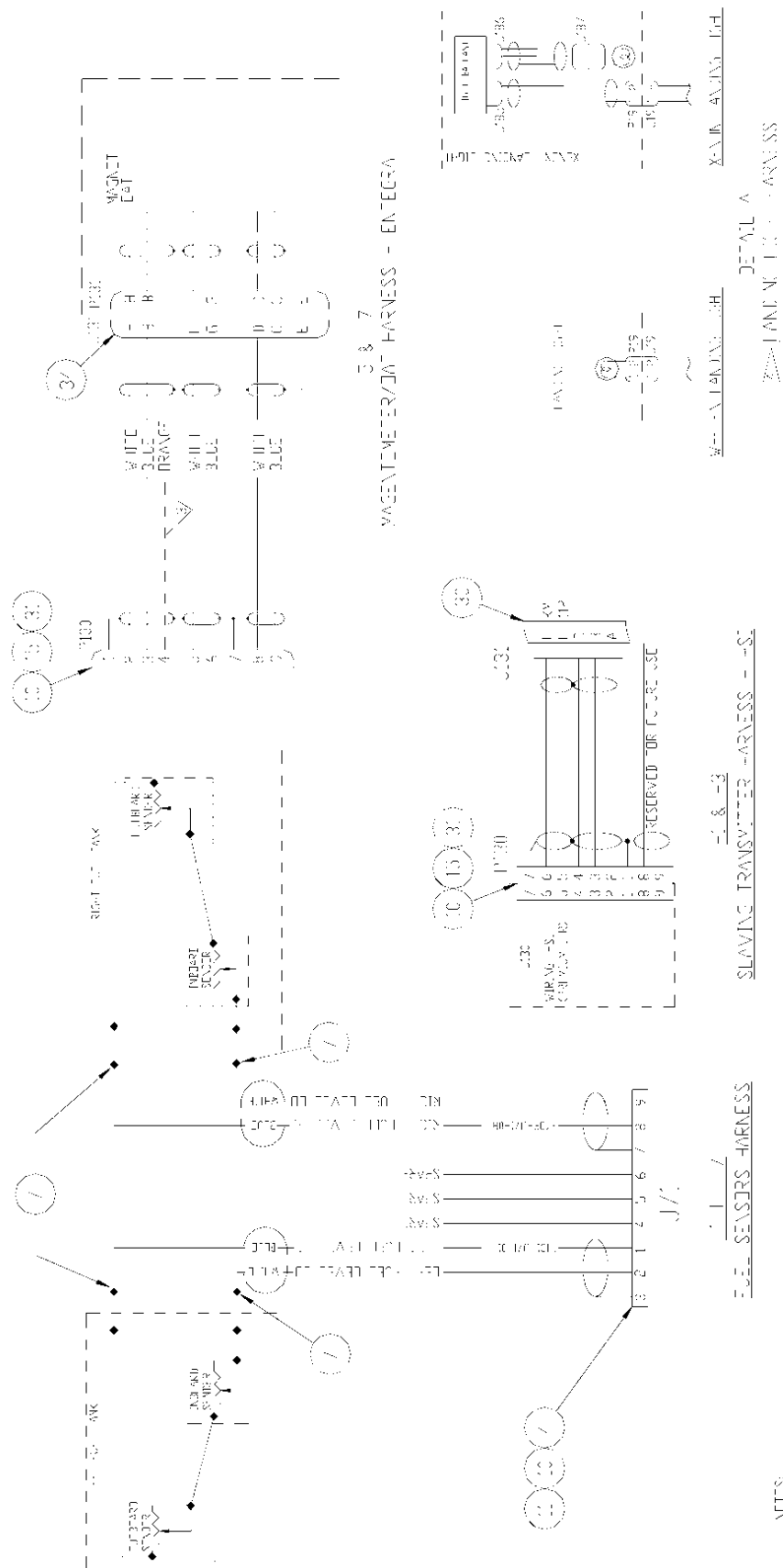
Detail 57 - 1 Wing Electrical System Assembly (9/9)

NOTES

THIS WIRE WILL BE USED ONLY WHEN THE SPEED BRAKE BOXES ARE TO BE INSTALLED IN THE WING. SPEED BRAKE FIXES ARE AN OPTIONAL EQUIPMENT CHOSEN BY THE CUSTOMER IN THE CESSNA CUSTOMER ORDER SHEET.

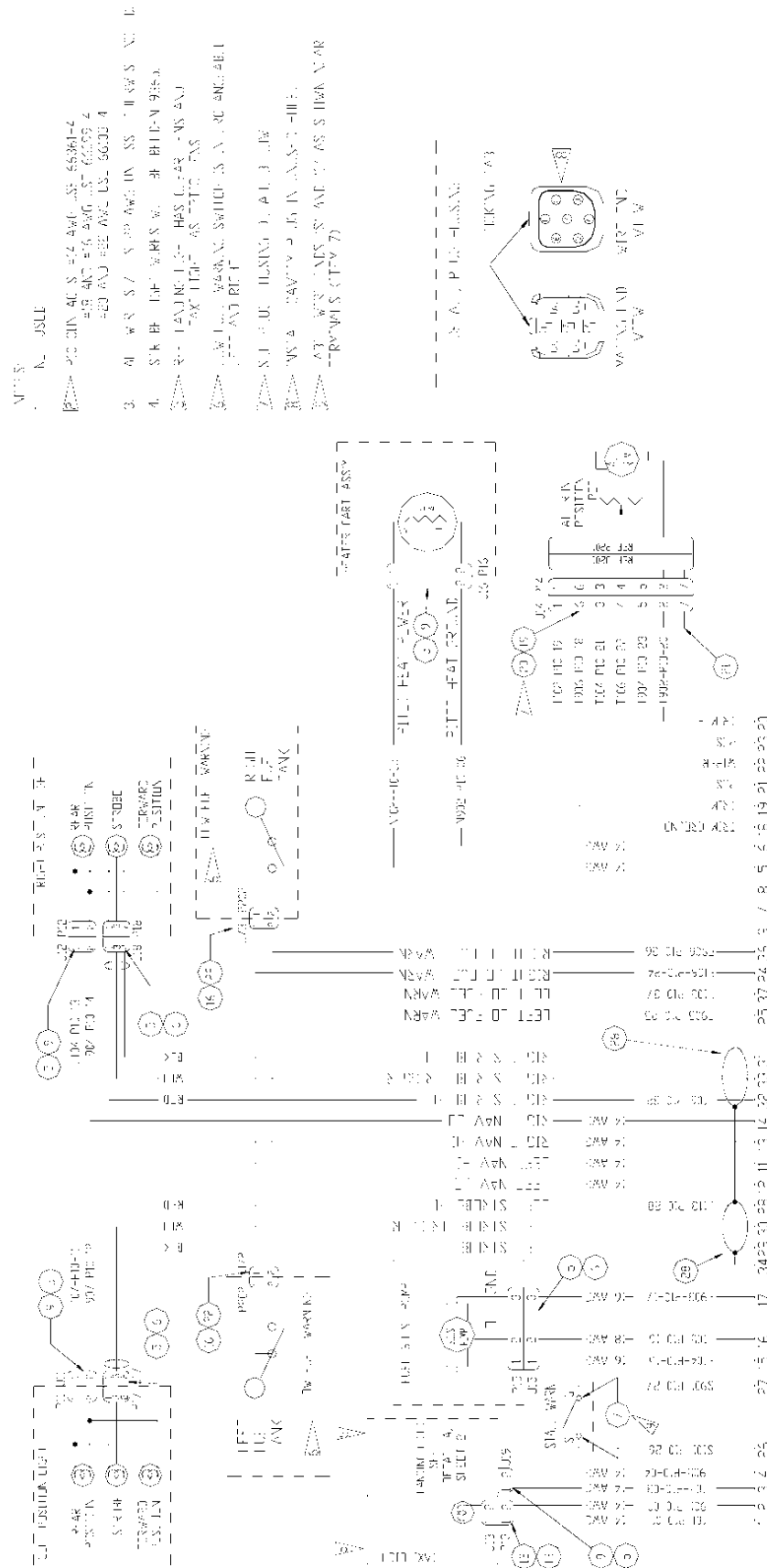
2000 RELUCTIVE WIRE WRAP 655300352 IS THE PREFERRED PART.

	-1- ST	-3- ST & SB	-1- N & V	-1- N & S		
34					MS3106-10S	CONNECTOR, PLUG, ELECTRIC, CRIMP TYPE, STRAIGHT
35					MS3106-10S	WIRING, SPEED BRAKES, WING
36	20'	20'	20'	20'	ME7500/18-22-9	CABLE, FIBER, SHIELDED, 22 ga., THREE CONDUCTOR
37					206705-2	RECEPTACLE, FREE HANGING, 13-9
38	1'	1'	1'	1'	650-01961-0000	INSTALL KIT KIT 112
39	59'	59'	59'	59'	ME7500/18-22-9	CABLE, FIBER, SHIELDED, 22 ga., TWO CONDUCTOR
40	46'	46'	46'	46'	9355-13-1-1-1-1	CABLE, 300 V, 11 ROAD, 18 AWG, 18 AWG, 18 AWG, 18 AWG
41	176'	176'	176'	176'	Y22750/16-14-9	WIRE, ELEC, MED WT, 500 V, 14 ga., WHITE
42	18'	18'	18'	18'	Y22750/16-14-9	WIRE, ELEC, MED WT, 500 V, 14 ga., WHITE
43	5'	5'	5'	5'	Y22750/16-18-9	WIRE, ELEC, MED WT, 500 V, 18 ga., WHITE
44	162'	162'	162'	162'	Y22750/16-22-9	WIRE, ELEC, MED WT, 500 V, 22 ga., WHITE
45	AR	AR	AR	AR	655300352	3/4" ROUND 2000 RELUCTIVE WIRE WRAP
46	4'	4'	4'	4'	794015-1	3/4" ROUND 2000 AX RELUCTIVE WIRE WRAP
47	4'	4'	4'	4'	794015-1	3/4" ROUND 2000 AX RELUCTIVE WIRE WRAP
48	6'	6'	6'	6'	917308-1	SOCKET, 24-18 AWG
49	6'	6'	6'	6'	917308-1	PLUG, CAVITY
50	6'	6'	6'	6'	917308-1	PLUG, CAVITY
51	6'	6'	6'	6'	917308-1	PLUG, CAVITY
52	10'	10'	10'	10'	65530-1	PLUG, 18-14 AWG
53	2'	2'	2'	2'	7703/2-1	RECEPTACLE, 2 PIN FREE HANGING
54	24'	24'	24'	24'	65530-4	PIN 24-20 AWG
55	10'	10'	10'	10'	65530-1	PIN 18-16 AWG
56	2'	2'	2'	2'	60620-1	PIN 20-14 AWG
57	1'	1'	1'	1'	480319-1	PIN PLUGGING, 2 PIN
58	1'	1'	1'	1'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
59	2'	2'	2'	2'	206966-1	BACKSHELL, SIZE 13 CPC
60	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
61	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
62	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
63	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
64	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
65	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
66	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
67	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
68	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
69	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
70	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
71	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
72	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
73	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
74	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
75	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
76	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
77	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
78	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
79	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
80	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
81	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
82	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
83	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
84	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
85	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
86	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
87	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
88	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
89	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
90	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
91	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
92	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
93	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
94	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
95	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
96	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
97	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
98	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
99	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
100	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
101	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
102	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
103	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
104	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
105	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
106	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
107	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
108	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
109	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
110	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
111	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
112	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
113	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
114	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
115	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
116	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
117	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
118	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
119	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
120	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
121	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
122	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
123	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
124	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
125	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
126	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
127	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
128	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
129	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
130	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
131	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
132	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
133	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
134	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
135	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
136	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
137	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
138	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
139	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
140	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
141	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
142	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
143	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
144	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
145	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
146	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
147	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
148	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
149	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
150	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
151	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
152	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
153	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
154	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
155	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
156	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
157	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
158	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
159	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
160	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
161	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
162	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
163	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
164	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
165	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
166	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
167	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
168	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
169	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
170	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
171	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
172	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
173	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
174	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
175	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
176	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
177	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
178	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
179	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
180	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
181	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
182	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
183	3'	3'	3'	3'	480323-1	SOCKET, PLUGGING, 3 PIN
184	17'	17'	17'	17'	60619-1	SOCKET, 20-14 AWG
185	6'	6'	6'	6'	65530-1	SOCKET, 20-24 AWG
186	3'	3'	3'	3'	206708-1	PLUG, 18-9 PIN CPC SIZE 13
187	17'	17'	17'	17'	206966-1	BACKSHELL, SIZE 13 CPC
188	4'	4'	4'	4'	480318-1	SOCKET, PLUGGING, 2 PIN
189	1'	1'	1'	1'	770433-1	PLUG, PLUGGING, 4 PIN REL. ANGLED
190	6'	6'	6'	6'	3575P	TERMINAL RING, 46, 22-16 AWG
191	3'	3'	3'	3'</		

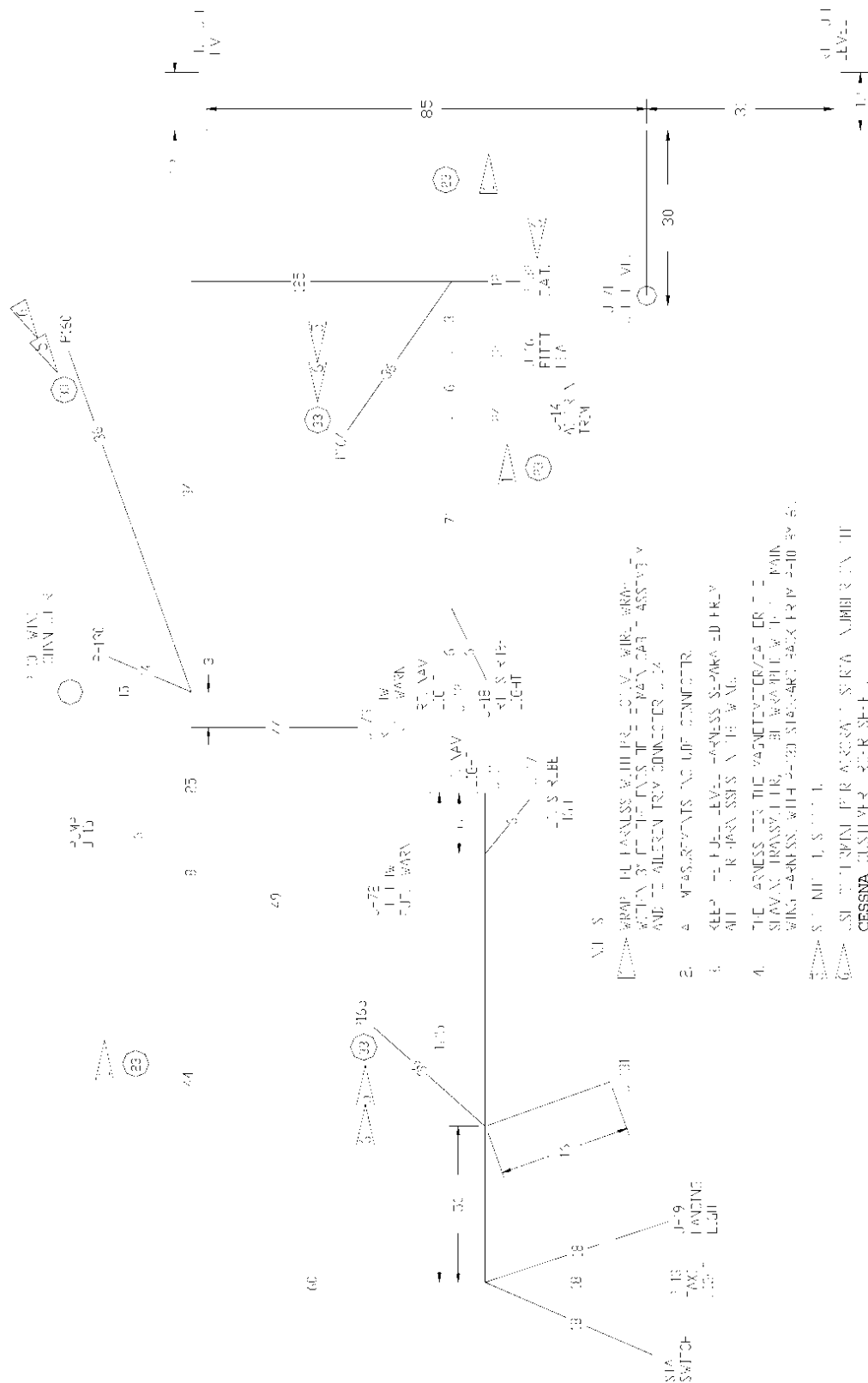


Detail 57 - 2 Wing Assembly Wiring (2/5)

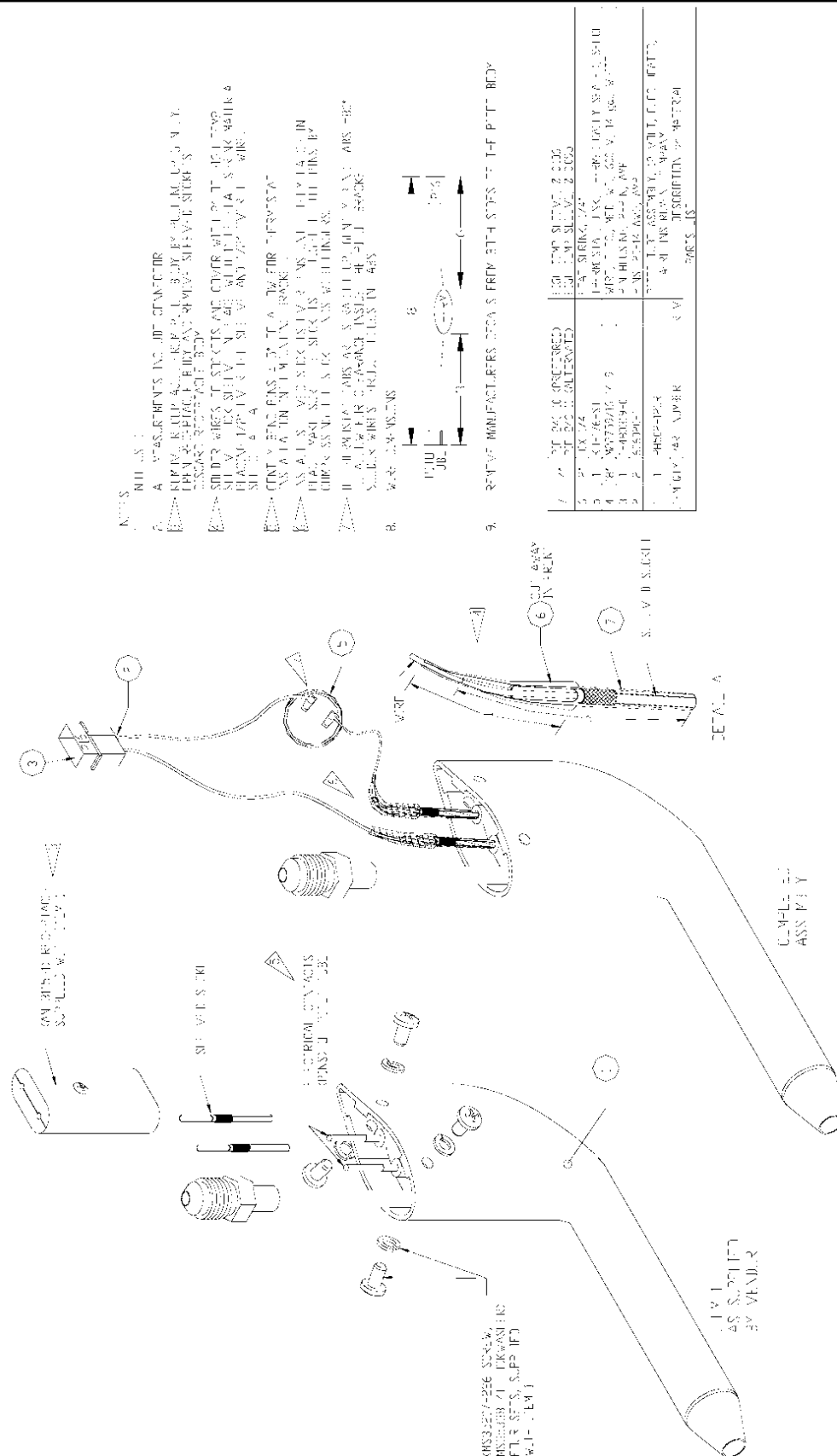




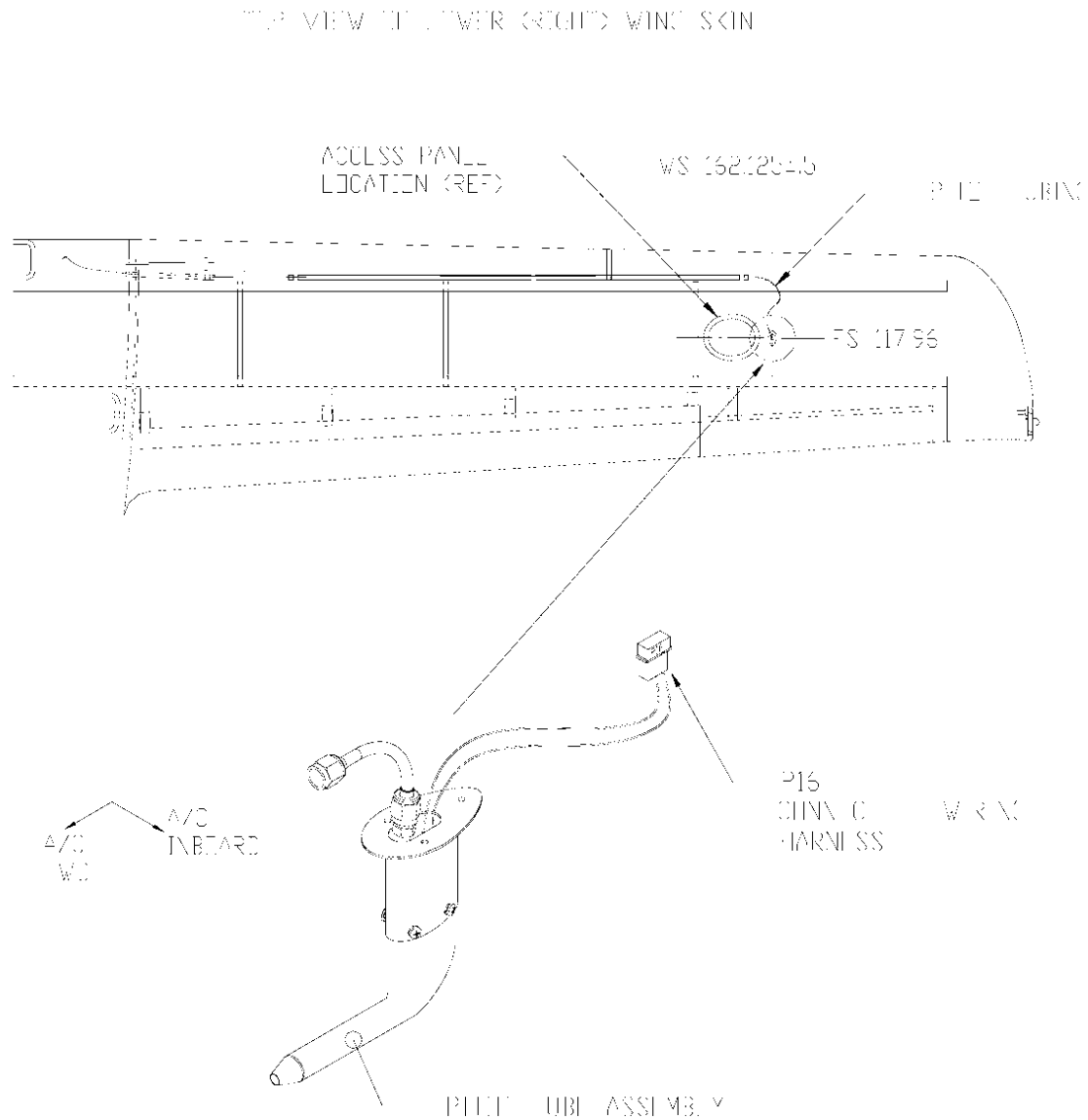
Detail 57 - 2 Wing Assembly Wiring (4/5)



Detail 57 - 2 Wing Assembly Wiring (5/5)

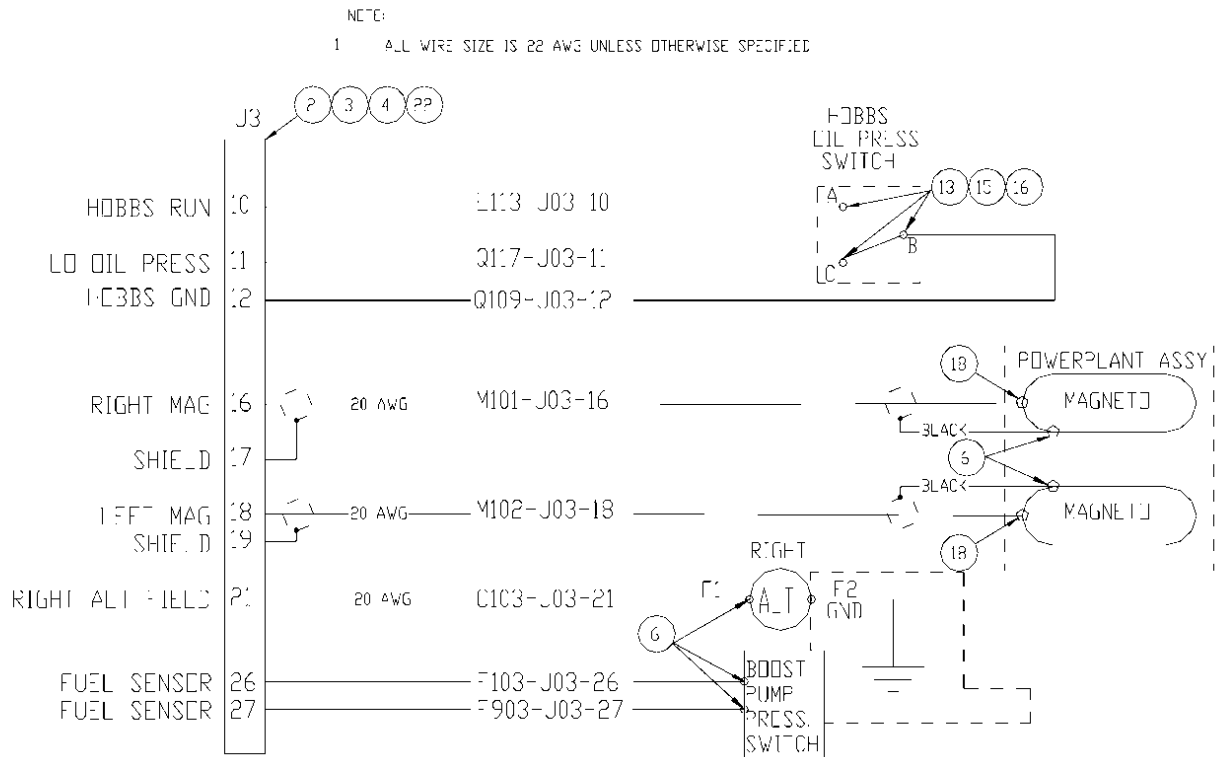


Detail 57 - 3 Pitot Tube Assembly (LA57312024B) (1/1)



Detail 57 - 4 Pitot Tube Installation (LA57312000K1) (1/1)

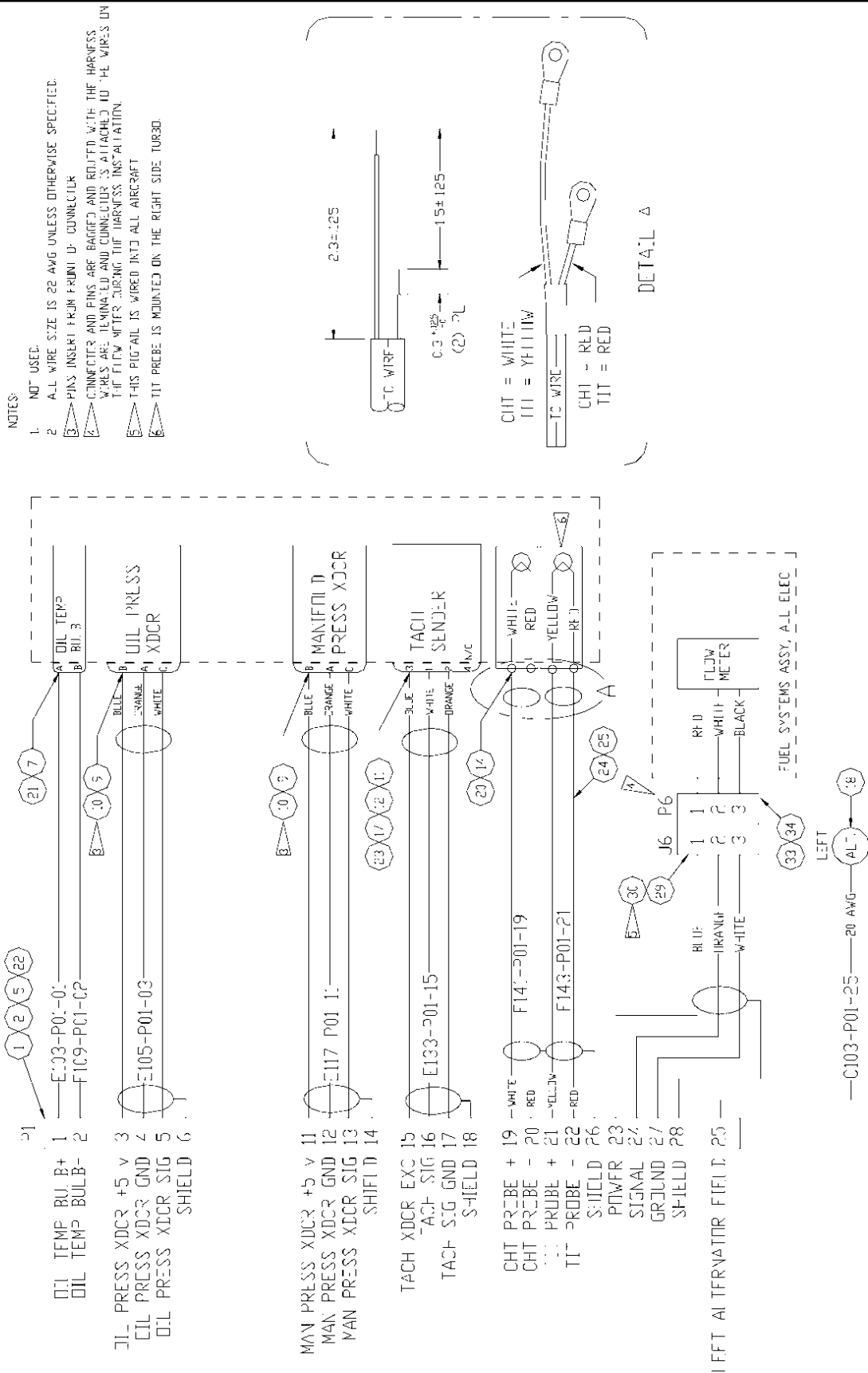
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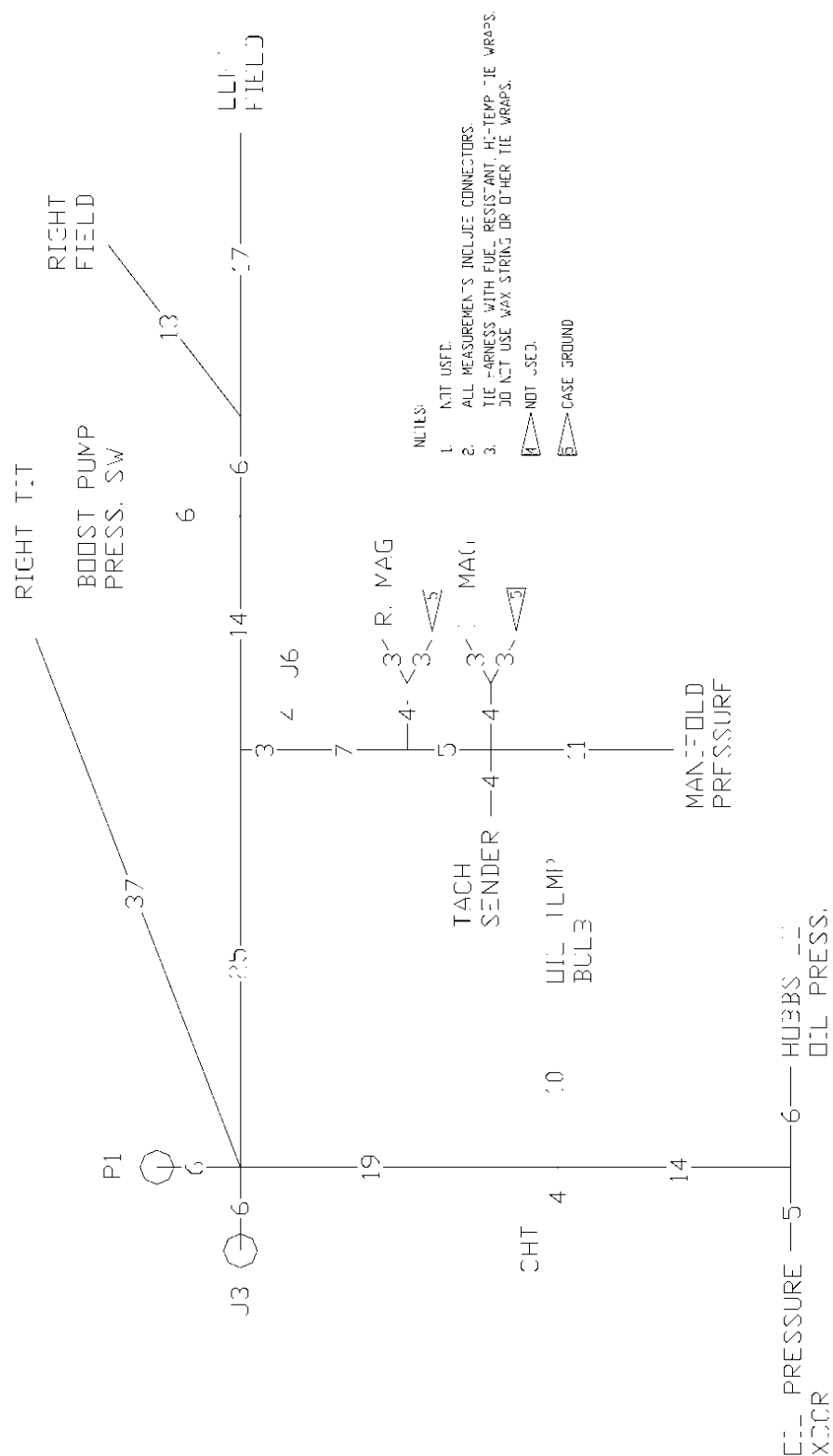
35	8'	M22759/16-22-9	WIRE, ELEC, MED. WT., 600 V, 22 ga., WHITE
34	1	240305-3	PIN HOUSING, 3-PIN, AMP
33	3	60618-1	PIN, 24-18 AWG, AMP
32			NOT USED
31	35	TYZ523M	TIE-WRAP, FUEL RESISTANT, HI-TEMP, SMALL
30	1	240303-3	PLUG, 3 PIN FREE HANGING, AMP
29	3	6173-1	SOCKET, 30-22 AWG, AMP
28	15'	M27500/18-22-3	CABLE, ELEC, SHIELD, 22 ga, THREE COND.
27	7'	M27500/18-22-1	CABLE, ELEC, SHIELD, 20 ga., SINGLE COND.
26	43'	M22759/16-22-9	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., WHITE
25	2	320882	TERMINAL RING #4 22-16 AWG, AMP
24	7'	83952	TYPE KX, PAIRS 20 AWG, THERMOCOUPLE WIRE, BELDEN
23	1	206403-1	SEAL, PERIPHERAL, Size 11, AMP
22	2	206403-2	SEAL, PERIPHERAL, Size 17, AMP
21	1	9779-513-4	BOO, STRAIN RELIEF, AMPHENOL
20	2	36152	TERMINAL RING #6 22-16 AWG, AMP
19			NOT USED
18	3	36154	RING TERMINAL #10 22-16 AWG, AMP
17	3	66105-4	SOCKET 24-20 AWG, AMP
16	3	2084201	PINS, HOBBS CONNECTOR, PIONEER-STD
15	3	2013899	WIRE SUPPORT, PIONEER STD
14	7'	83950	TYPE JX, PAIRS 20 AWG, THERMOCOUPLE WIRE, BELDEN
13	1	2034147	CONNECTOR, HOBBS OIL PRESSURE SWITCH, PIONEER-STD
12	1	206362-3	BACKSHELL, SIZE 11 CPC, AMP
11	1	206060-1	PLUG 11-4 PIN CPC SIZE 11, AMP
10	6	2089290	PINS, TRANSDUCERS, PIONEER-STD
9	2	210192	CONNECTOR ASSEMBLY, TRANSDUCERS, PIONEER STD
8	1'	M22759/16-22-3	WIRE, ELECTRIC, MED. WT., 600 V, 22 ga., BLACK
7	1	MS3105F1PS-3S	CONNECTOR, 30 TAMP SENSOR
6	5	31886	TERMINAL RING #8 22-16 AWG, AMP
5	28	205089-1	PIN 24-20 AWG SIZE 20, AMP
4	1	205839-3	PLUG 17-28 PIN CPC SIZE 17, AMP
3	8	205090-1	SOCKET 24/20, AMP
2	2	206070-1	BACKSHELL, SIZE 17 CPC, AMP
1	1	206039-1	PLUG, 17-28 PIN CPC SIZE 17, AMP
TFM	3"	PART NUMBER	REV DESCRIPTION or MATERIAL

PARTS LIST

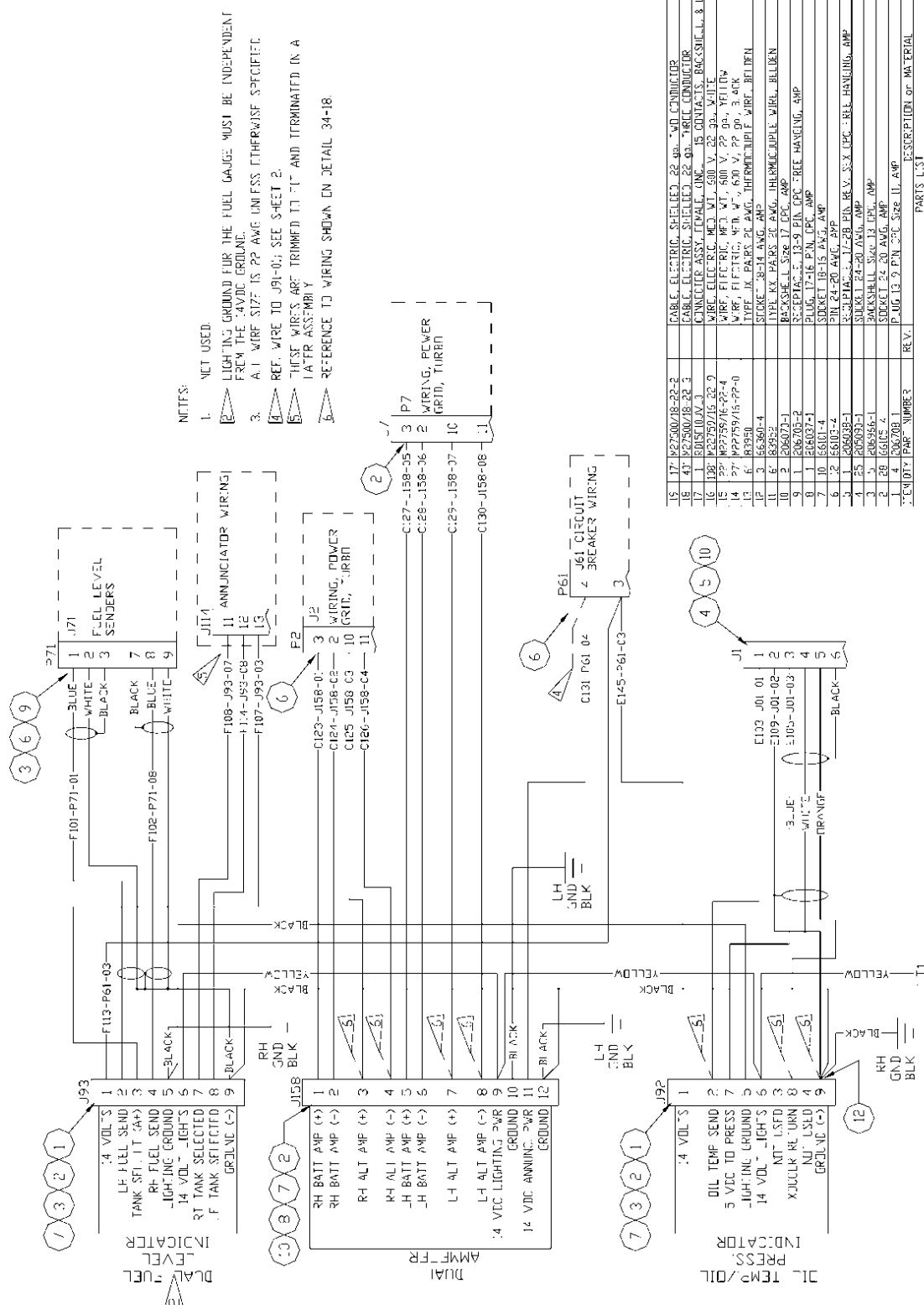
Detail 77 - 1 Engine Sensor Wiring (LC71844505C) (1/3)



Detail 77 - 1 Engine Sensor Wiring (2/3)

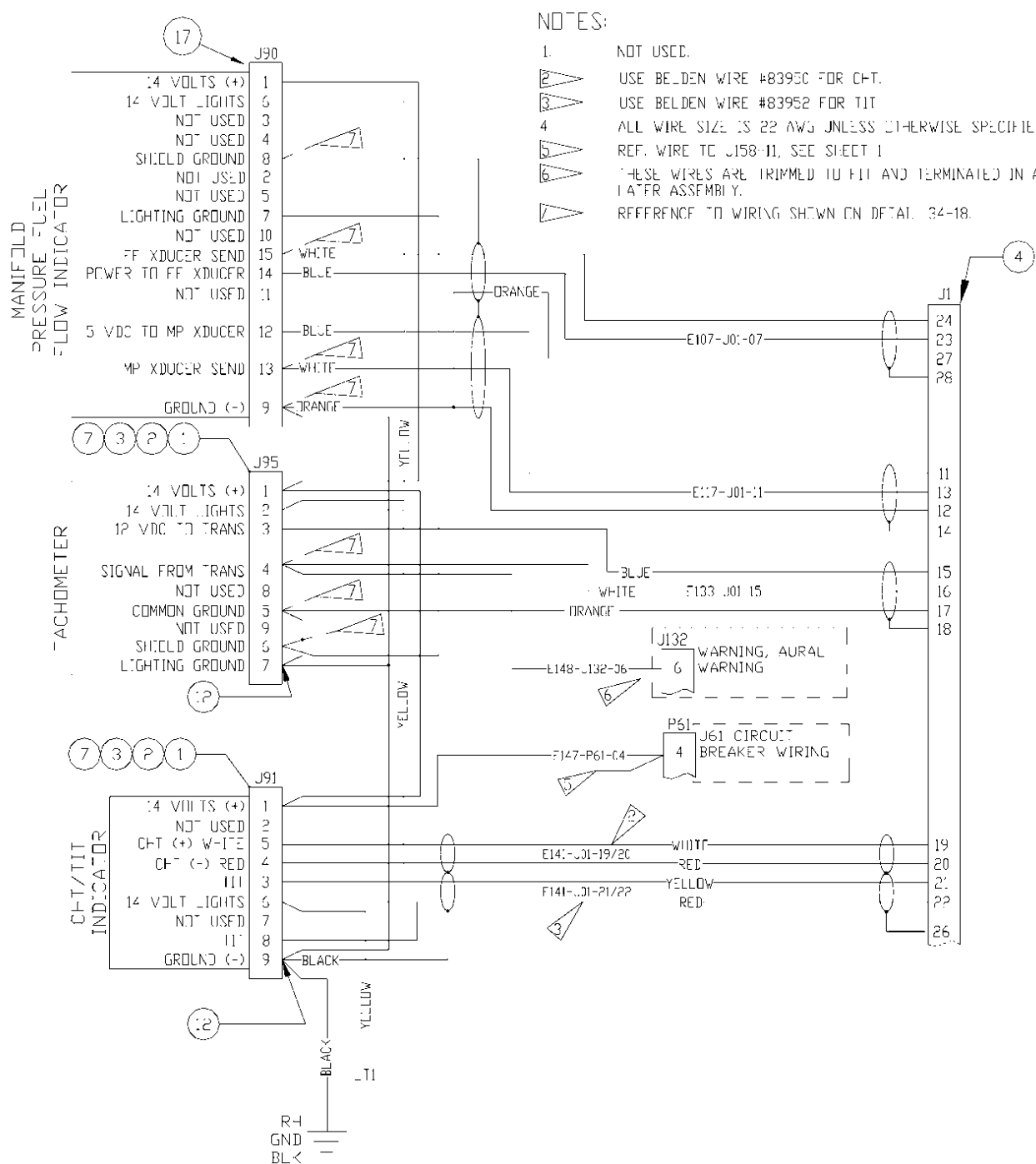


Detail 77 - 1 Engine Sensor Wiring (3/3)

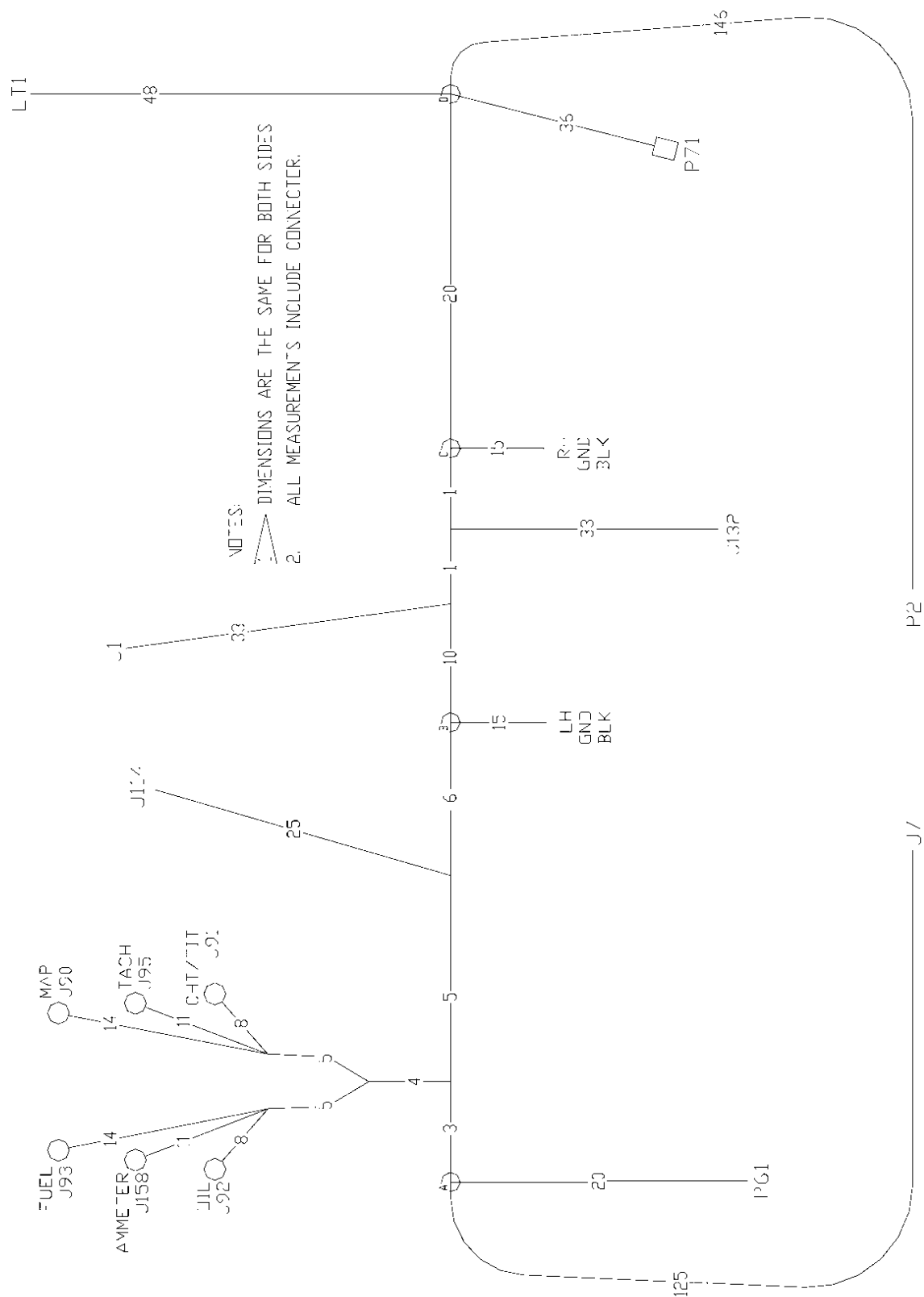


Detail 77 - 2 Engine Instruments Wiring (LC53511500D1) (1/3)

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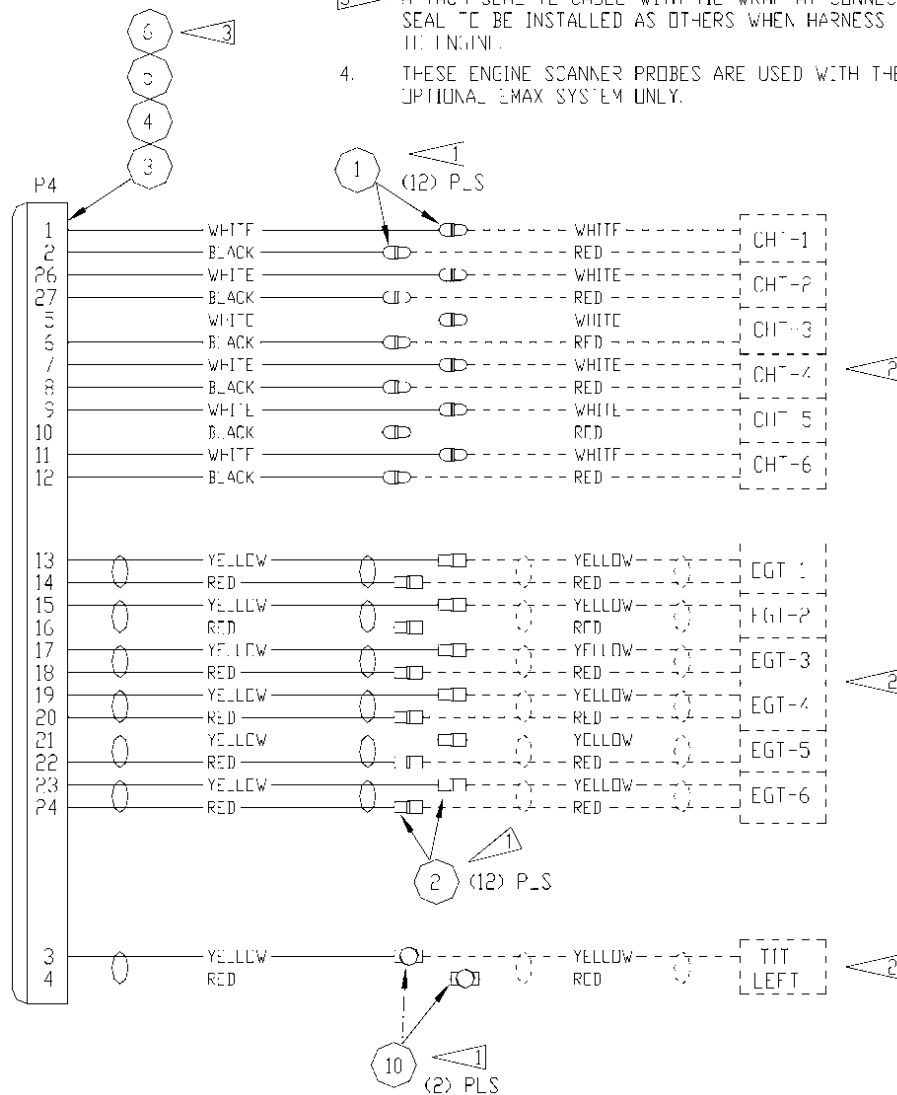
Detail 77 - 2 Engine Instruments Wiring (2/3)



Detail 77 - 2 Engine Instruments Wiring (3/3)

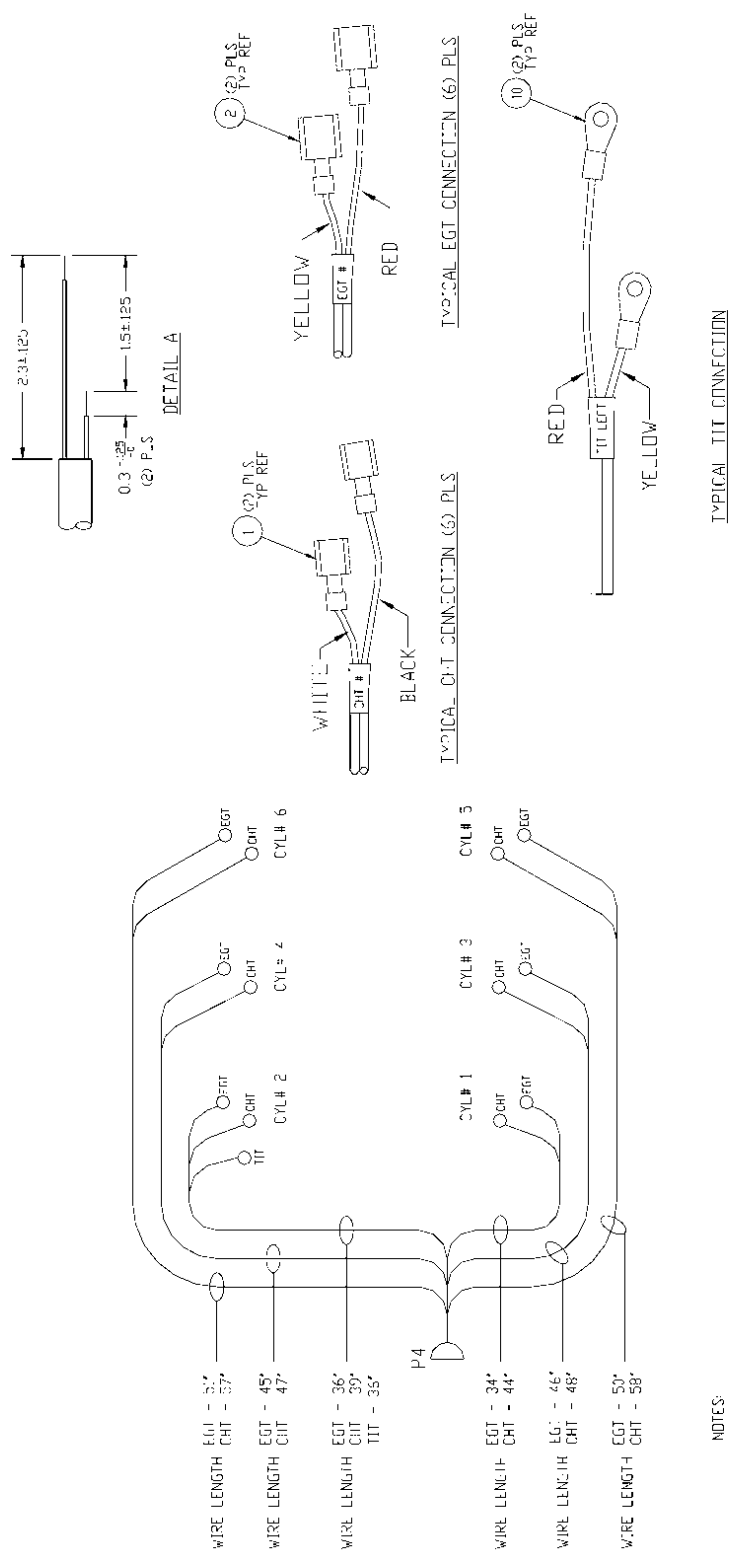
NOTES:

1. OFFSET THE TERMINAL CONNECTIONS, SEE DETAIL A FOR WIRE PREPARATION. STRIP WIRE LONG ENOUGH TO DOUBLE OVER ITSELF.
2. DASHED LINES FOR REFERENCE ONLY.
3. ATTACH SEAL TO CABLE WITH TIE WRAP AT CONNECTOR END. SEAL TO BE INSTALLED AS OTHERS WHEN HARNESS IS ASSEMBLED IN ENGINE.
4. THESE ENGINE SCANNER PROBES ARE USED WITH THE OPTIONAL EMAX SYSTEM ONLY.



10	2	320882	TERMINAL RING, 22-19 AWG, #4 STUD, RED, AMP
9	26'	M22759/16-22-0	WIRE, ELECTRIC, MED. WT. 600V, 22 GA., BLACK
8	25'	M22759/16-22-9	WIRE, ELECTRIC, MED. WT. 600V, 22 GA., WHITE
7	26'	83952	THERMOCOUPLE WIRES, CXTYPE, ONE PAIR (RED & YELLOW), 20 AWG, Belden
6	1	206403-2	SEAL, PERIPHERAL, SIZE 17, AMP
5	1	206039-1	PLUG, 17-28 PIN CPC, SIZE 17, AMP
4	26	205089-1	PIN 24-20 AWG, AMP
3	1	206070-1	BACKSHELL, Size 17 CPC, AMP
2	12	2-520103-2	TAB, 22-18 AWG, FULLY INSULATED FASTON, AMP
1	12	2-520407-2	RECEPTACLE, 22-18 AWG, FULLY INSULATED FASTON, AMP
ITEM	QTY	PART NUMBER	DESCRIPTION OR MATERIAL
PARTS LIST			

Detail 77 - 3 Engine Scanner Probes Wiring Assembly (LC53343802-) (1/2)



Detail 77 - 3 Engine Scanner Probes Wiring Assembly (2/2)

- End of Chapter -

ELECTRICAL MANUAL

LOG OF REVISIONS

The Log of Revisions pages are updated by Cessna each time revisions are issued. The Log of Revisions contains a list of all revisions made to the electrical manual since its original issue. By comparing the Log of Revisions to the Record of Incorporated Revisions, the user of this manual can verify that all applicable revisions are included.

Revision Number	Date Issued	Affected Chapters	Affected pages	Approved By
Original Issue	12/20/04	N/A	N/A	Luann Schweitzer 12/20/04
A	02/04/08	ALL	See Narrative Discussion of Revisions	Tom Bowen 03/05/08

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NARRATIVE DISCUSSION OF REVISIONS		
Revision Level	Page No.	Comment
A	ALL	Updated to reflect company name change to Cessna.

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