WIRING DIAGRAM REVISIONS LIST

WIRING DIAGRAM NUMBER BHT-212-MM	WIRING DIAGRAM NUMBER D212-725-2	PAGE #	REV	DATE	NOTES
N/A	N/A	I	F	20.03.20	-Wiring diagram revisions list page 1
N/A	N/A	II	F	20.03.20	-Wiring diagram revisions list page 2
N/A	N/A	III	F	20.03.20	-Wiring diagram revisions list page 3
N/A	N/A	IV	F	20.03.20	-Wiring diagram revisions list page 4
N/A	N/A	V	F	20.03.20	-Wiring diagram revisions list page 5
N/A	N/A	VI	F	20.03.20	-Wiring diagram revisions list page 6
N/A	N/A	VII	F	20.03.20	-Wiring diagram revisions list page 7
N/A	N/A	VIII	F	20.03.20	-Wiring diagram revisions list page 8
N/A	N/A	IX	F	20.03.20	-Wiring diagram revisions list page 9
N/A	N/A	X	F	20.03.20	-Wiring diagram revisions list page 10
N/A	N/A	XI	F	20.03.20	-Wiring diagram revisions list page 11
98-10	98-10S	1	A	06.12.08	-M13, Dual Ammeter removed and single loadmeter installed from B205. -Removed diodes CR63 through CR66 due Non-Ess. Bus fed from Main DC Bus. -TB52 removed. -#2 28VDC Bus wiring added due no #2 Generator System. -Avionics busses added to allow for Avionics Master Switches. -TB901 and TB902 installed to accommodate feeder wires into each CB Panel.
			B	07.01.30	-Wiring rerouted to allow for correct T5 operation.
			C	07.05.01	-Wiring removed for # 2 dual voltmeter. M21, indicator removed & #1 Dual -Voltmeter moved to the #2 position.

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WIRING DIAGRAM NUMBER BHT-212-MM	WIRING DIAGRAM NUMBER D212-725-2	PAGE #	REV	DATE	NOTES
98-11	98-11S	2	A	06.12.08	-#2 Generator System wiring diagram deleted and replaced with AC & DC power feeder schematic.
			B	07.01.30	-Re-issue of all diagrams.
98-12	98-12S	3	A	06.12.08	-All wiring for # 2 Battery System removed.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Added Master Caution wires to Battery Relay for clarity.
98-13	98-13S	4	A	06.12.08	-#3 Inverter, #3 Inverter switch, #3 AC sense relay, and #2 AC Bus Control Relay removed from system. -Auto switching function for # 2 inverter if # 1 inverter fails. -Both inverters powered from Main DC Bus.
			B	07.01.30	-Re-issue of all diagrams.
98-14	98-14S	5	A	06.12.08	-All #2 engine start components removed. -Engine dual start switch replaced with single engine start switch.
			B	07.01.30	-Start Fuel Solenoid Valve, switch, and wiring installed per STC.
			C	07.05.01	-Added 'Start Signal' wire for Analog/Digital gauge.
98-15	98-15S	6	A	06.12.08	-#2 Idle Stop system removed in addition to the #1 Idle Stop delay relay and dual position Idle Stop switch. -Single position Idle Stop switch installed.
			B	07.01.30	-Re-issue of all diagrams.
98-16	N/A	N/A	N/A	N/A	-Particle Separator system removed and wiring diagram deleted.
98-17	98-17S	7	A	06.12.08	-Inputs and outputs for #2 RPM Warning system removed.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Correction of wiring for RPM Limit Warning box from Gas Prod Tach.
98-18	98-18S	8	A	06.12.08	-Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Correction to Gov RPM Actuator.

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WIRING DIAGRAM NUMBER BHT-212-MM	WIRING DIAGRAM NUMBER D212-725-2	PAGE #	REV	DATE	NOTES
98-19	98-19S	9	A	06.12.08	-#2 Fire Bottle wiring removed. -Single Pole "Discharge" switch to be used.
			B	07.01.30	-Re-issue of all diagrams.
98-20	98-20S	10	A	06.12.08	-B212 Fire Detection system removed and B205 type system installed. -Single "Fire Handle" to be used. -Rotary "Test Switch" replaced by 3 "Press to Test" buttons, one for each detector.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Correction to wire numbers at #1 detector.
98-21	98-21S	11	A	06.12.08	-Engine # 2 and Combining Gearbox systems wiring removed.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Corrector to wire number at J41.
98-22	98-22S	12	A	06.12.08	-Engine # 2 Tach systems wiring removed. -Triple Tach Indicator to be replaced by B205 Dual Tach Indicator.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Correction of wiring for RPM Limit Warning box from Gas Prod Tach.
98-23	98-23S	13	A	06.12.08	-Engine # 2 ITT system wiring removed. -#1 System to be used for EGT/MGT.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Terminology change from ITT to MGT/EGT. -Correction of wire number in CB panel. -Drawing changed due to new Analog/Digital indicator.
98-24	98-24S	14	A	06.12.08	-Engine # 2 Torque Pressure System wiring removed.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Correction of wire numbers to J99 & correction of connector # P64.
98-25	98-25S	15	A	06.12.08	-Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.

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WIRING DIAGRAM NUMBER BHT-212-MM	WIRING DIAGRAM NUMBER D212-725-2	PAGE #	REV	DATE	NOTES
98-26	98-26S	16	A	06.12.08	-Hourmeter now activated by Engine Torque Pressure Switch instead of C Box Oil Pressure Switch.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Correction of torque pressure switch name and connector number.
98-27	98-27S	17	A	06.12.08	-Engine # 2 Fuel Pressure system wiring removed.
			B	07.01.30	-Re-issue of all diagrams.
98-28	98-28S	18	A	06.12.08	-New wiring diagram for pilots and copilots ADI's.
			B	07.01.30	-Re-issue of all diagrams.
98-29	98-29S	19	A	06.12.08	-New wiring diagram for pilots Turn & Bank and Gyro Directional Indicator.
			B	07.01.30	-Re-issue of all diagrams.
98-30	98-30S	20	A	06.12.08	-Fuel Control Heater and Fuel Control Manual Solenoid wiring removed and Fuel Control Solenoid Valve wiring installed for B205 engine. -Engine Governor switch wiring inside Engine Control Panel modified to operate Valve.
			B	07.01.30	-Fuel Interconnect valves wired to allow for Master Caution annunciation. -Start Fuel Solenoid Valve, switch, and wiring installed per STC.
			C	07.05.01	-Fuel Valve wiring modified to remove it from Fire Handle. -Fuel Interconnect Switch removed and wiring removed from Valves. Wiring added to keep Master Caution lights out.
98-31	98-31S	21	A	06.12.08	-Fuel Control Heater and Fuel Control Manual Solenoid wiring removed. -Engine #2 Governor switch removed from Engine Control Panel.
			B	07.01.30	-Re-issue of all diagrams.

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98-32	98-32S	22	A	06.12.08	-Fuel Crossfeed System removed and WD replaced by Engine Control Panel/WD.
			B	07.01.30	-Start Fuel Switch and Fuel Interconnect Master Caution wiring installed.
			C	07.05.01	-Jumper wires added for Fuel Boost Master Caution lights. -Fuel Interconnect Switch removed and wiring removed from Valves. Wiring added to keep Master Caution lights out.
98-33	98-33S	23	A	06.12.08	-Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-No Change
			D	07.12.04	-Removal of Fuel Quantity Select Switch & modification of wiring to accommodate same. -Applicable to ALL EXCEPT S/N's 30687, 30931, & 30576.
98-34	98-34S	24	A	06.12.08	-VSI, Triple Tach, Altimeter, Airspeed Indicator, Attitude Indicator, and Dual Torque Indicator Lighting wiring removed. -Passenger Warning Light power and control added to diagram 98-35S. -LED Post lights installed for Dual Tach and Torque Pressure Indicators. -Power Supply removed due lighting now 28 VDC.
			B	07.01.30	-Wiring modified due LED post lights too bright. Resistor added to 27TB1. -OAT Indicator pot light added.
			C	07.05.01	-LED post lights removed and replaced with incandescent post lights.

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98-35	98-35S	25	A	06.12.08	-VSI, Triple Tach, Altimeter, Airspeed Indicator, Attitude Indicator, Standby Compass and Dual Torque indicator lighting wiring removed. -Passenger Warning Light system removed from this drawing and added to diagram 98-34S. -Nav Command Light relay and wiring removed. -LED Post lights installed for Dual Tach and Torque Pressure Indicators. -Power Supply removed due lighting now 28 VDC.
			B	07.01.30	-Wiring modified due LED post lights too bright. Resistor added to 27TB1.
			C	07.05.01	-LED post lights removed and replaced with incandescent post lights and correction of pin numbers on 27TB1.
98-36	98-36S	26	A	06.12.08	-Engine #2 Instrument Lighting wiring removed because instruments removed. -Combining Gearbox Ind & Integrally lit panel wiring removed.
			B	07.01.30	-Engine instruments converted to 28VDC lighting. Power Supplies removed and wiring changed to accommodate changes.
			C	07.05.01	-LED Post lights installed for Fuel Quantity Select Switch and for upper panel illumination. -M21, #2 Dual Voltmeter wiring removed as indicator removed.
98-37	98-37S	27	A	06.12.08	-Engine # 2 "ENG OUT" light and wiring removed. -New annunciators installed and wiring amend to accommodate them. -Annunciators renamed to Engine RPM (red) and Rotor RPM (amber).
			B	07.01.30	-TB50 & TB51 combined into TB50. -Heater ON/OFF light added to dimming circuit.
			C	07.05.01	-Wiring modified for RPM lights to allow for dimming of lights.(routed to TB50) -Correction make to 27TB1 hookup for Master Caution Lights.

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98-38 Sheet 1	98-38S Sheet 1	28	A	06.12.08	-All Engine # 2 wiring removed. -Electric Oil Cooler wiring added to diagram for M/C annunciations (if used).
			B	07.01.30	-Fuel Interconnect valve lights added to allow for monitoring of valve position.
			C	07.05.01	-Wiring change for Fuel Boost Master Caution lighting inside Engine Control Panel. -Fuel Interconnect Switch removed and wiring removed from Valves. Wiring added to keep Master Caution lights out.
98-38 Sheet 2	98-38S Sheet 2	29	A	06.12.08	-C Box wiring & AC Voltage Sensing wiring removed. -#1 and #2 Hydraulic wiring split to allow for separate Master Caution annunciations. -Heater Air Line and Heater Overheat wiring split to allow for separate Master Caution annunciations.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Correction to positions for 27TB1.
98-38 Sheet 3	98-38S Sheet 3	30	A	06.12.08	-Particle Separator wiring removed. -Fuel Control Manual Solenoid wiring removed and Fuel Control Solenoid Valve wiring installed for T5317A engine. -Engine Governor Switch wiring inside Engine Control Panel modified to operate Valve.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Correction made to Master Caution Buss identification. -Correction made to wire numbers for governor switch.
98-38 Sheet 4	98-38S Sheet 4	31	A	06.12.08	-C Box Chip Detector wiring removed. -42 and 90 GB Chip Detector wiring split to allow for separate Master Caution annunciations. -Wiring provisions added for Transmission Chip Detector 'Latched Indicators'.
			B	07.01.30	-Re-issue of all diagrams.

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98-38 Sheet 5	98-38S Sheet 5	32	A	06.12.08	-Battery Bus #2 and Battery Temp Wiring removed. -Passenger and Cargo Door Lock wiring split to allow for separate Master Caution annunciations.
			B	07.01.30	-ENG ICING & ENG ICE DET wires moved to new locations in connectors.
			C	07.05.01	-Change of terminology from Baggage to Cargo Door.
			E	17.11.17	-Alternate circuit breaker wiring for new MCP.
			F	20.03.20	-New MCP part number.
98-39	98-39S	33	A	06.12.08	-Transistor Stack-up diagram added for reference and convenience. -Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
98-40	98-40S	34	A	06.12.08	-Transistor Stack-up diagram added for reference and convenience. -Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams
98-41	98-41S	35	A	06.12.08	-Transistor Stack-up diagram added for reference and convenience. -Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
98-42	98-42S	36	A	06.12.08	-Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
98-43	98-43S	37	A	06.12.08	-Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
98-44	98-44S	38	A	06.12.08	-Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
98-45	98-45S	39	A	06.12.08	-Upper Anti-collision wiring routed thru J97A/P97A connector due J99/P99 moved to J95 position. -New LED Anti-collision Lights installed.
			B	07.01.30	-New Switch installed to allow operation of upper beacon only in certain circumstances.
98-46	98-46S	40	A	06.12.08	-Wiring routed thru CB panel disconnects. -New LED Red, Green and White Position Lights installed.
			B	07.01.30	-Re-issue of all diagrams.

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98-47	98-47S	41	A	06.12.08	-Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
98-48	98-48S	42	A	06.12.08	-Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Terminology changed from Baggage to Cargo
98-49	98-49S	43	A	06.12.08	-Hydraulic Systems # 1 and # 2 wiring split for Master Caution Annunciation prior to P58. -Wiring added from J58 to P43 on Master Caution Panel for above.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Correction to wiring in Miscellaneous Control Panel.
98-54	98-54S	44	A	06.12.08	-AFCS switches and Attitude Box wiring removed. No AFCS system installed.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Addition of Dual Controls switch per STC C-LSH00-716/D.
98-55	98-55S	45	A	06.12.08	-Wiring changed to accommodate new LED annunciators. No other changes.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Terminology changed from Baggage to Cargo. -Adapter harness drawing added.
98-56	98-56S	46	A	06.12.08	-Wiring routed thru CB panel disconnects. -Static Port Heater not installed. Wiring capped and stowed.
			B	07.01.30	-Re-issue of all diagrams.
98-57	98-57S	47	A	06.12.08	-Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
98-58	N/A	N/A	N/A	N/A	-Wiring diagram deleted.
98-59	98-59S	48	A	06.12.08	-Wiring changed to accommodate new LED annunciators. No other changes made.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-CR129 removed from system as not required. -'2 Button' Cargo release drawing added.

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98-60	98-60S	49	A	06.12.08	-Particle separator wiring and components removed. -Air conditioning wiring and components removed. -Bleed valve wiring and components removed. -Wiring modified to allow for separate Master Caution annunciations for Heater Air Line and Heater Overheat. -Wiring for Winterization Control Valve, Heater Control Line, and Aft Outlet Valve installed. Valves not installed.
			B	07.01.30	-Engine Fire Handle and Bleed Air Priority switch added to wiring to shut down heater per B205 system. -Heater ON/OFF annunciator added.
			C	07.05.01	-Wiring corrected at Bleed Air Priority Switch.
98-61	98-61S	50	A	06.12.08	-Wiring routed thru CB panel disconnects.
			B	07.01.30	-Re-issue of all diagrams.
98-62	98-62S	51	A	06.12.08	-New diagram added for Pilot Collective Stick wiring diagram.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Correction of wire numbers at P48.
98-63	98-63S	52	A	06.12.08	-New diagram added for Copilot Collective Stick wiring diagram.
			B	07.01.30	-Re-issue of all diagrams.
98-64	98-64S	53	A	06.12.08	-New diagram added for Pilot and Copilot Cyclic Stick wiring diagram.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-'China Hat' switch wiring added to both pilot and copilot cyclic.
98-65	98-65S	54	A	06.12.08	-Engine Anti-Icing system added from B205. -Engine De-Ice system to be operable.
			B	07.01.30	-Ice Detector system installed and activated for certification.
98-66	98-66S	55	A	06.12.08	-New diagram added for electric oil cooler system – if installed.
			B	07.01.30	-Re-issue of all diagrams.
			C	07.05.01	-Wiring Diagram removed. Page intentionally left blank.
98-67	98-67S	56	A	06.12.08	-New diagram added for Pilot's and Copilot's Clock.
			B	07.01.30	-Re-issue of all diagrams.

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98-68	**98-68S**	**57**	**A**	**06.12.08**	-Terminal blocks 27TB1 and 27TB2 hookup diagrams showing wire numbers and matrix type block.
			B	**07.01.30**	-Change due to jumpers added for Pilot and Copilot lights.
			C	**07.05.01**	-Changed due to additional Post lights installed for Fuel Quantity Select Switch, upper panel illumination and M21, #2 Dual Voltmeter lighting wiring removed as indicator removed.

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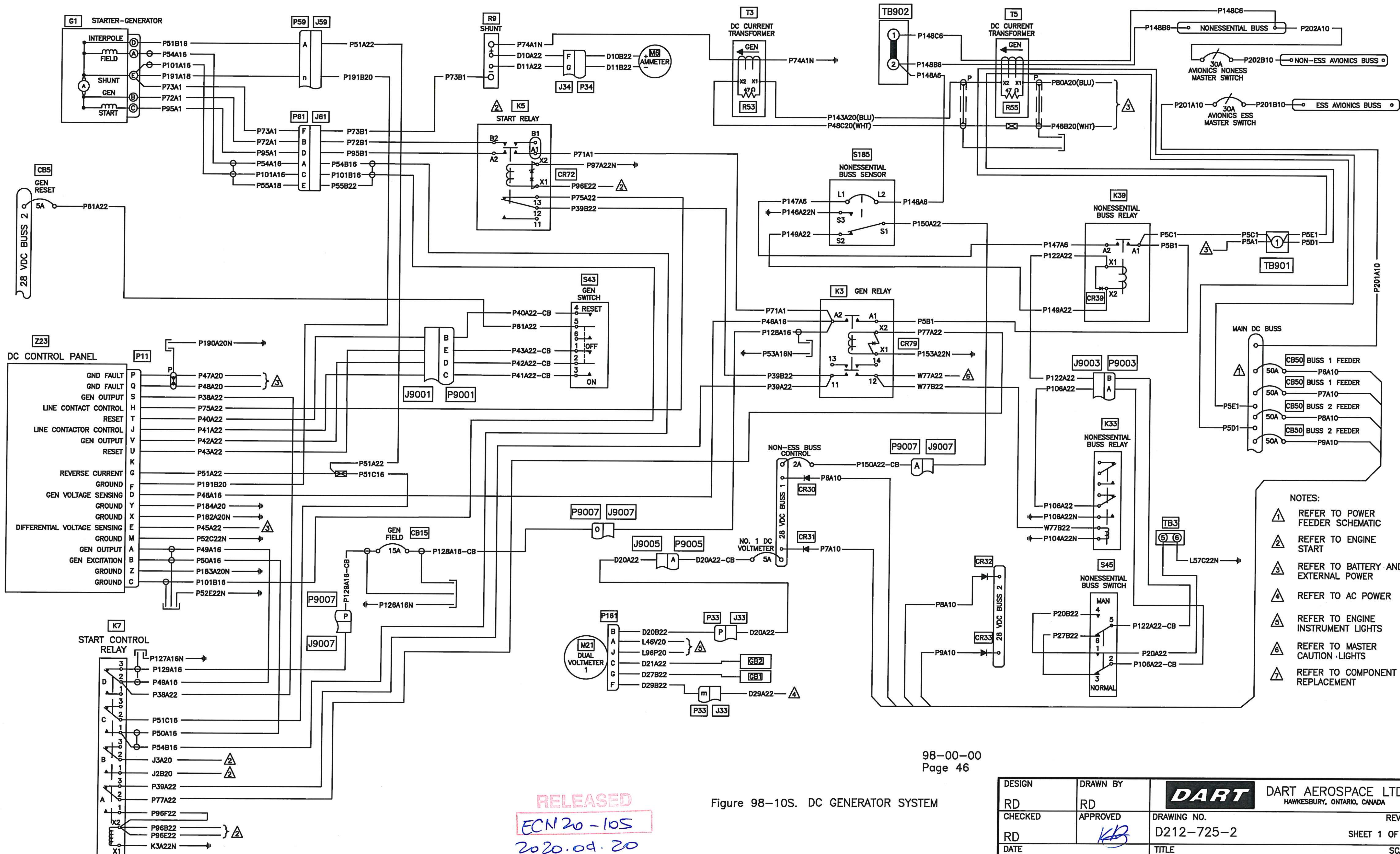

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Figure 98–10S. DC GENERATOR SYSTEM

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DATE		TITLE FIGURE 98–10S	SCALE NTS
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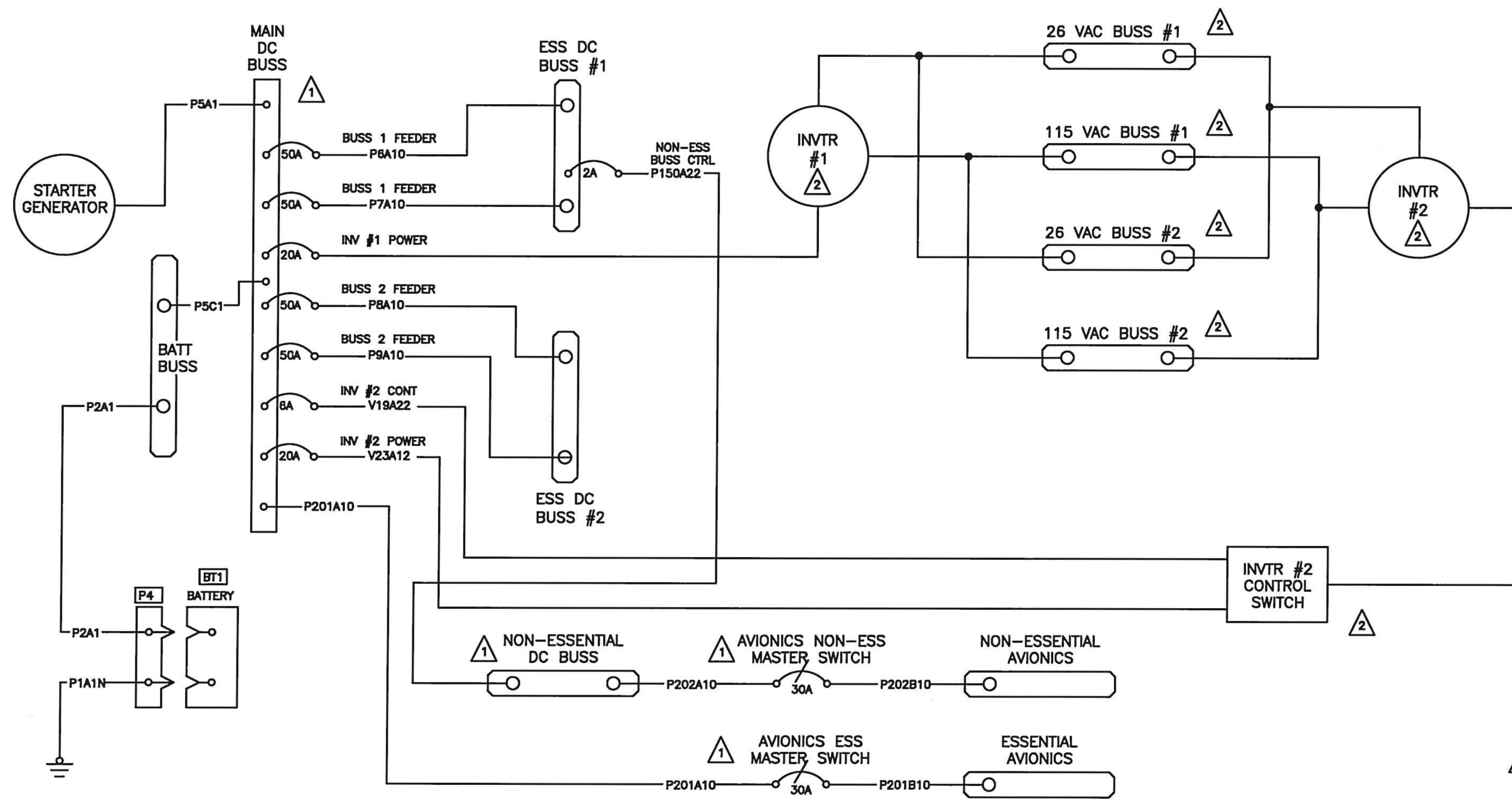

NOTES:

1. REFER TO DC POWER

2. REFER TO AC POWER

Figure 98–11S. DC and AC Power Feeder Schematic (Simplified)

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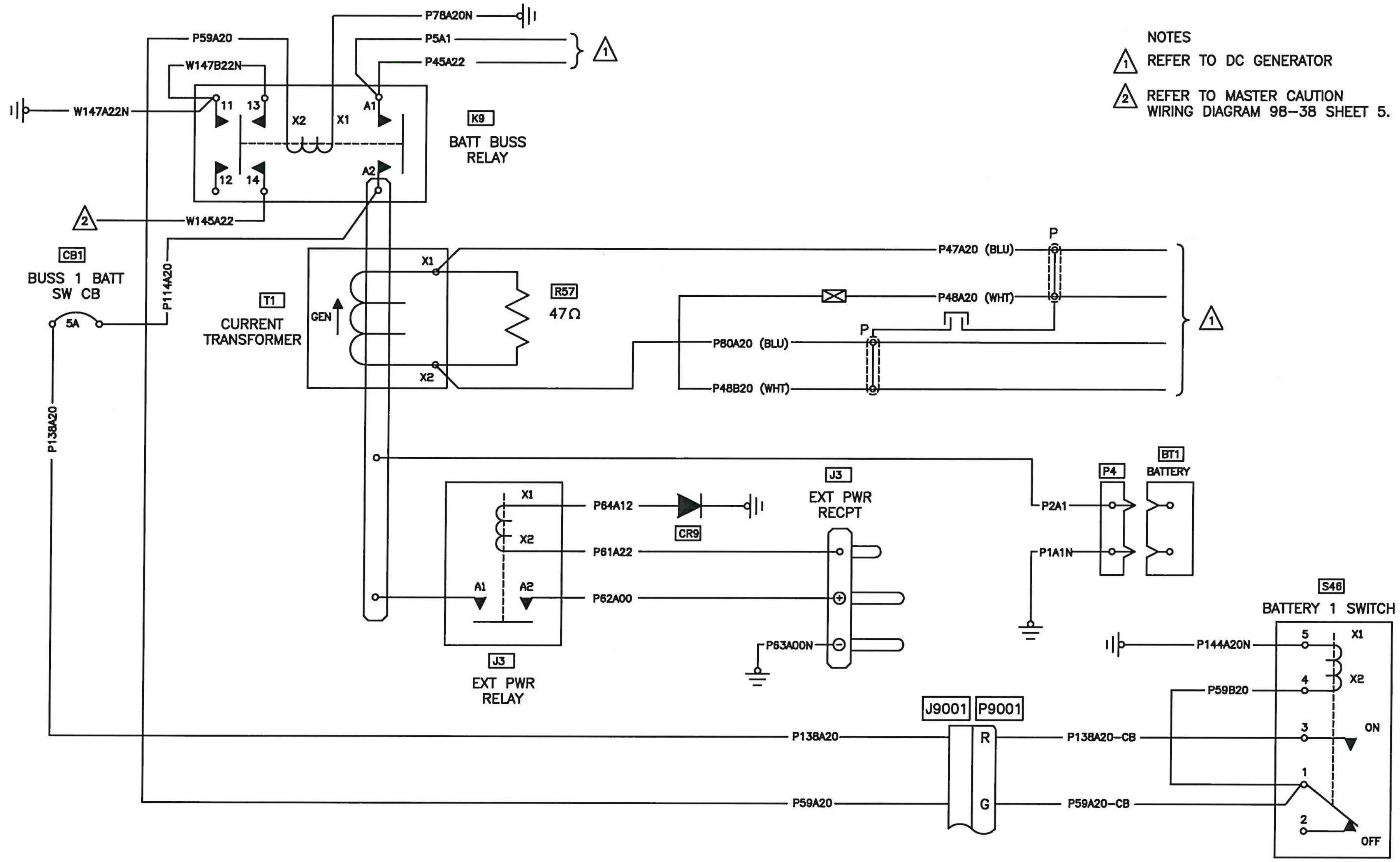

Figure 98–12S. BATTERY AND EXTERNAL POWER

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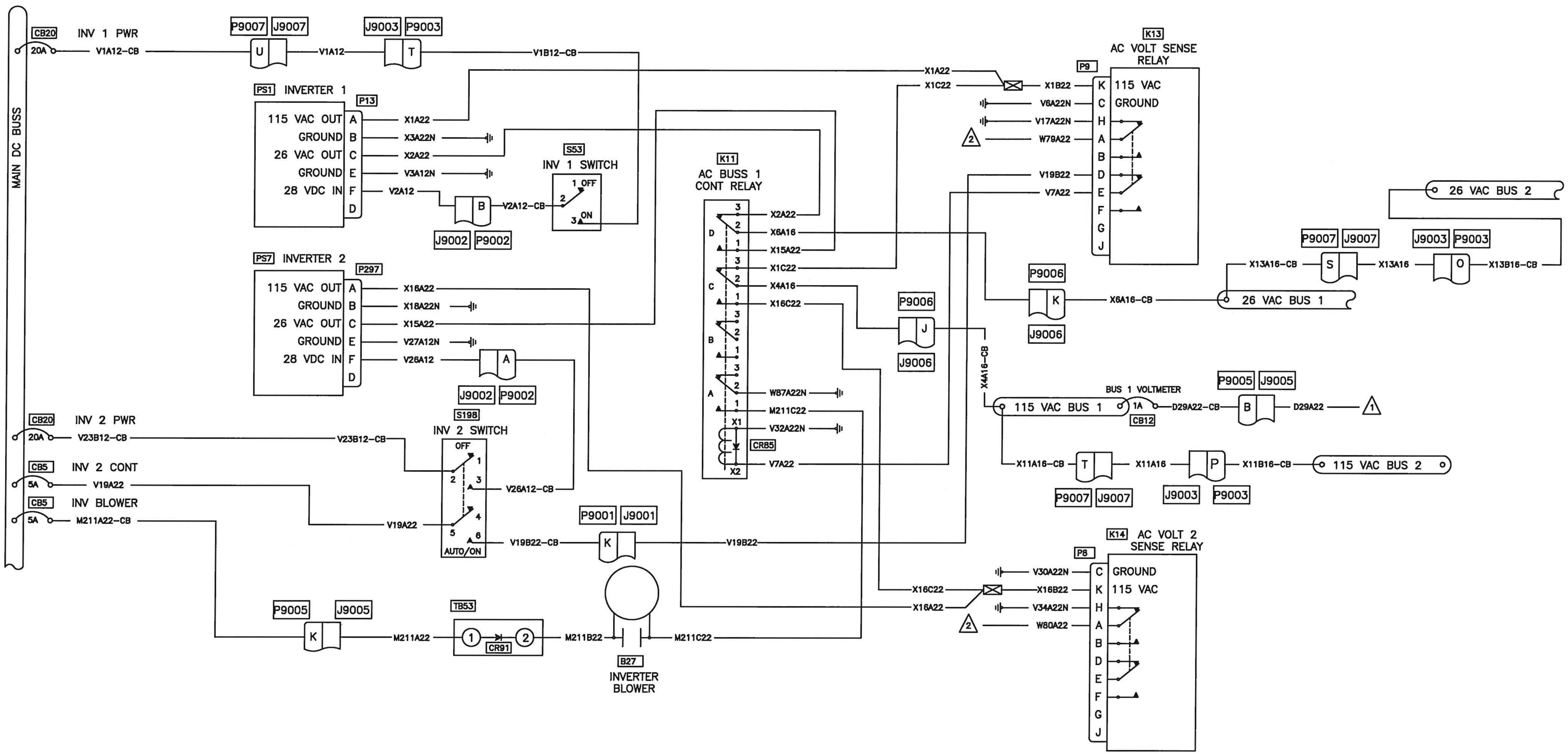

NOTES:

1. REFER TO DC GENERATOR
2. REFER TO MASTER CAUTION LIGHTS

Figure 98–13S. AC POWER

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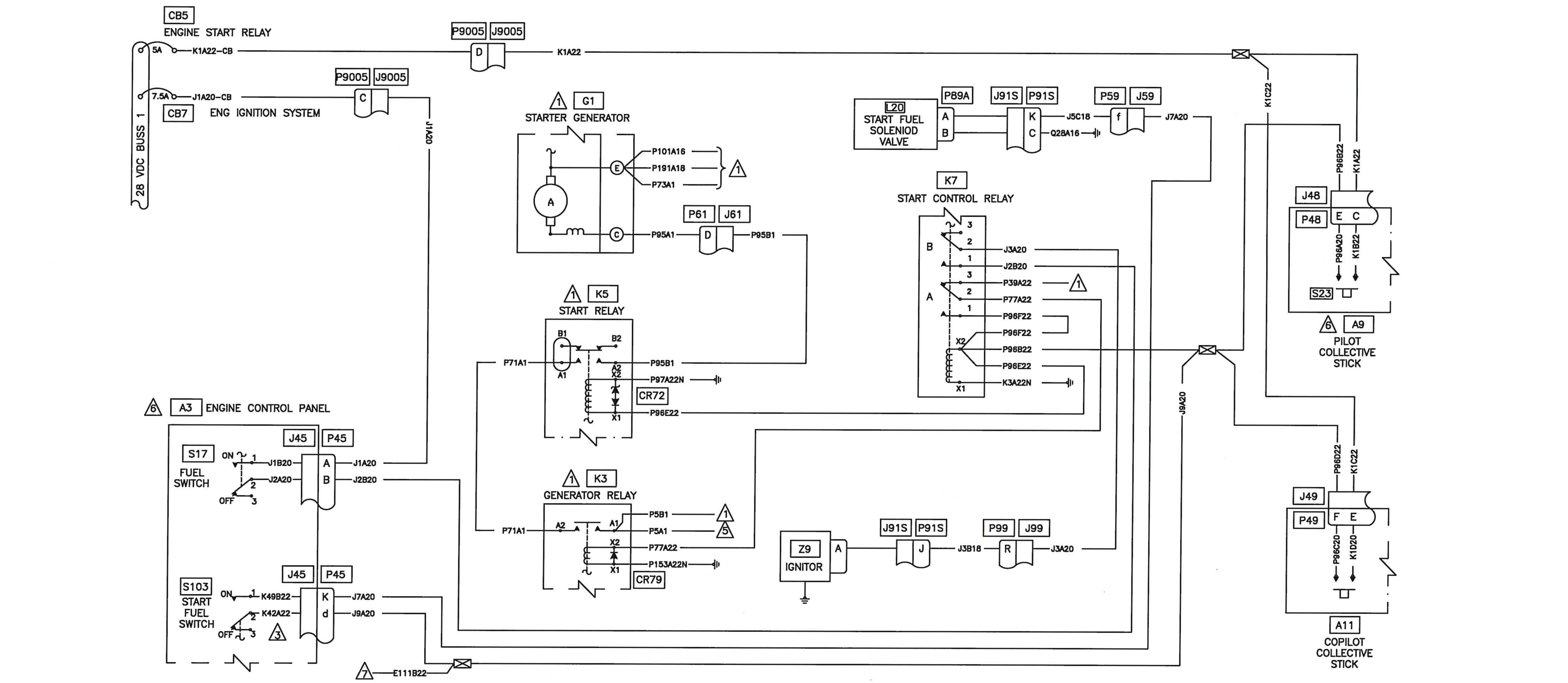
2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
RD	RD	
CHECKED	APPROVED	DRAWING NO. D212–725–2 REV. B SHEET 4 OF 57
RD	KB	
DATE		TITLE FIGURE 98–13S SCALE NTS
07.01.30		



NOTES:

1. REFER TO DC GENERATOR
2. REFER TO FUEL SYSTEM
3. SWITCH INSTALLED PER START FUEL S.T.C. SH4T15NM
4. REFER TO MASTER CAUTION AND RPM CAUTION LIGHTS
5. REFER TO BATTERY AND EXTERNAL POWER
6. REFER TO COMPONENT REPLACEMENT
7. REFER TO MGT INDICATOR WIRING DIAGRAM 98-23S. INSTALLED ONLY IF ANALOG/DIGITAL GAUGE INSTALLED.

Figure 98-14S. ENGINE START

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RD			
DATE		TITLE FIGURE 98-14S	SCALE NTS
07.05.01			

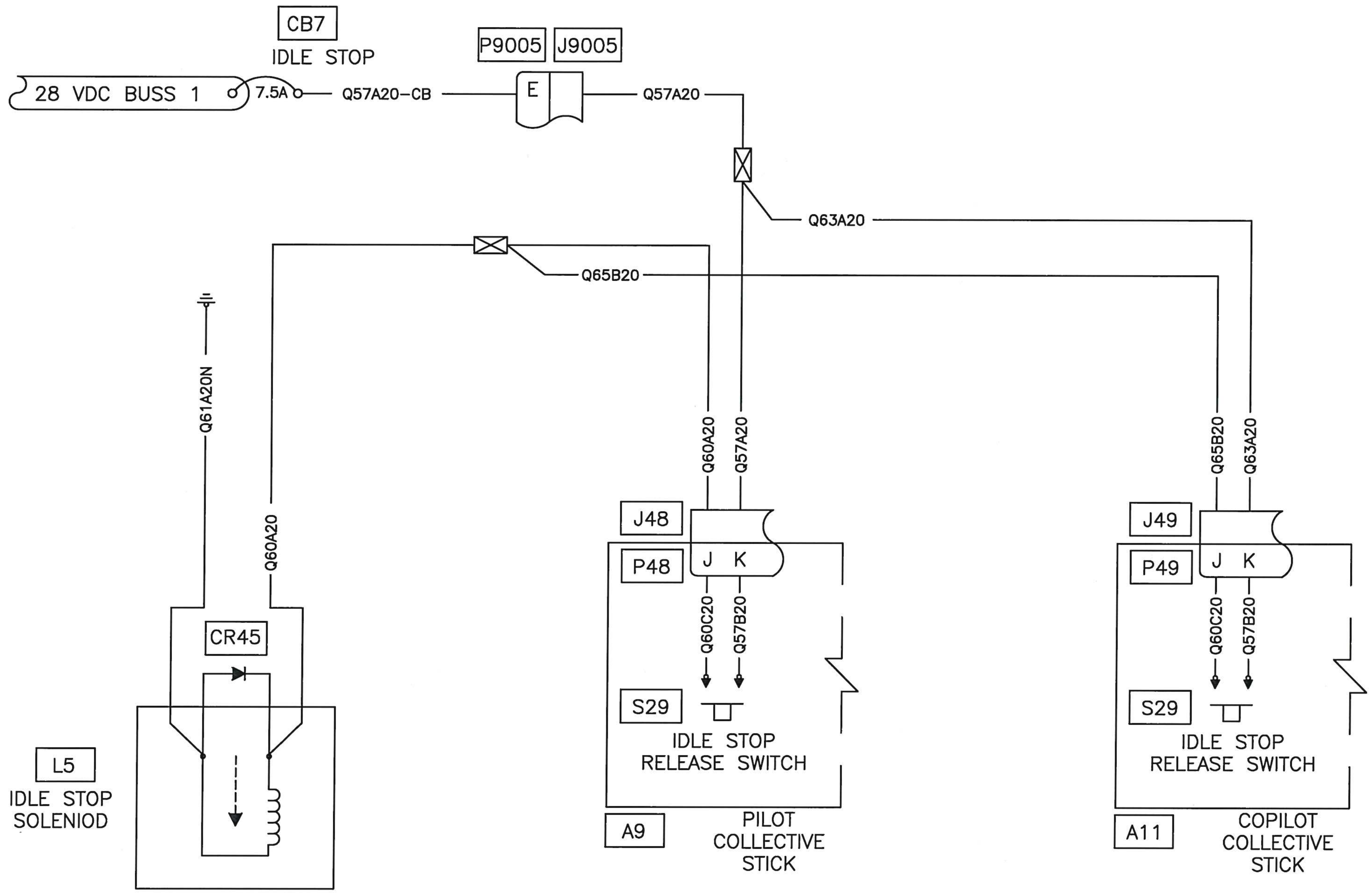

Figure 98–15S. IDLE STOP

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RD	KB	D212–725–2	SHEET 6 OF 57
DATE		TITLE	SCALE
07.01.30		FIGURE 98–15S	NTS

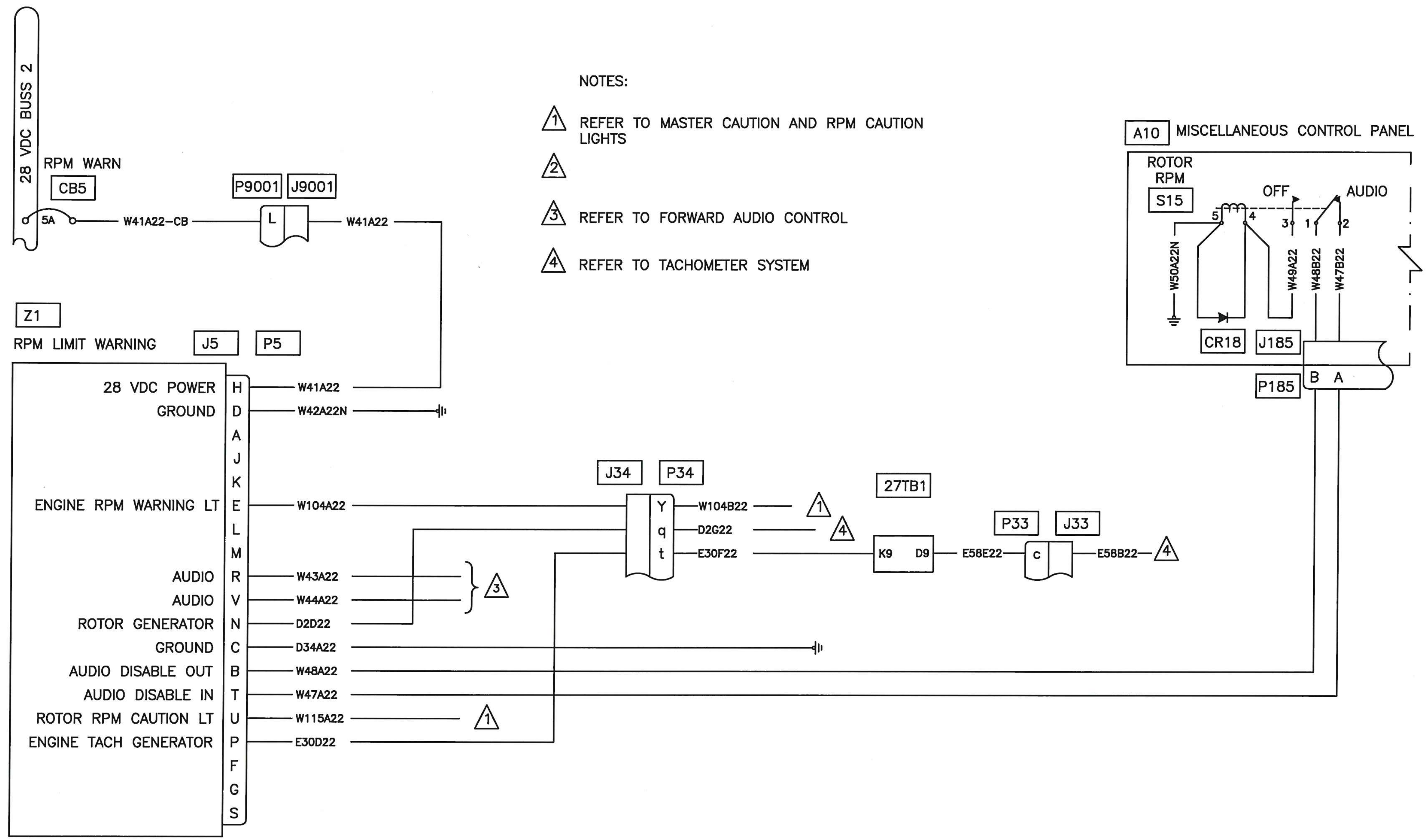

Figure 98–17S. RPM LIMIT DETECTOR

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2020.04.20

DESIGN	DRAWN BY	DART	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
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CHECKED	APPROVED	DRAWING NO.	REV. C
RD	KB	D212–725–2	SHEET 7 OF 57
DATE		TITLE	SCALE
07.05.01		FIGURE 98–17S	NTS

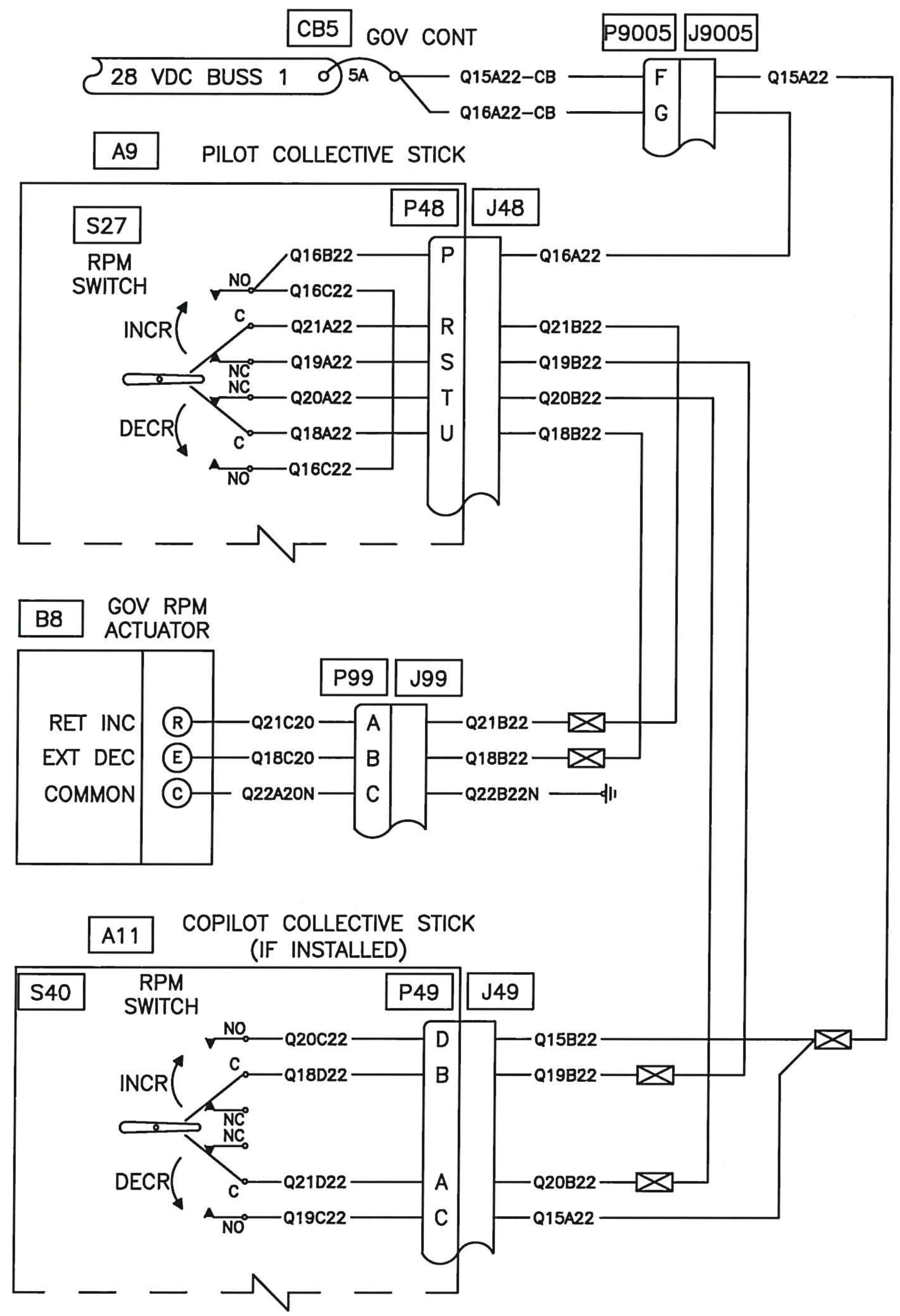

Figure 98–18S. GOVERNOR RPM

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2020. 04. 20

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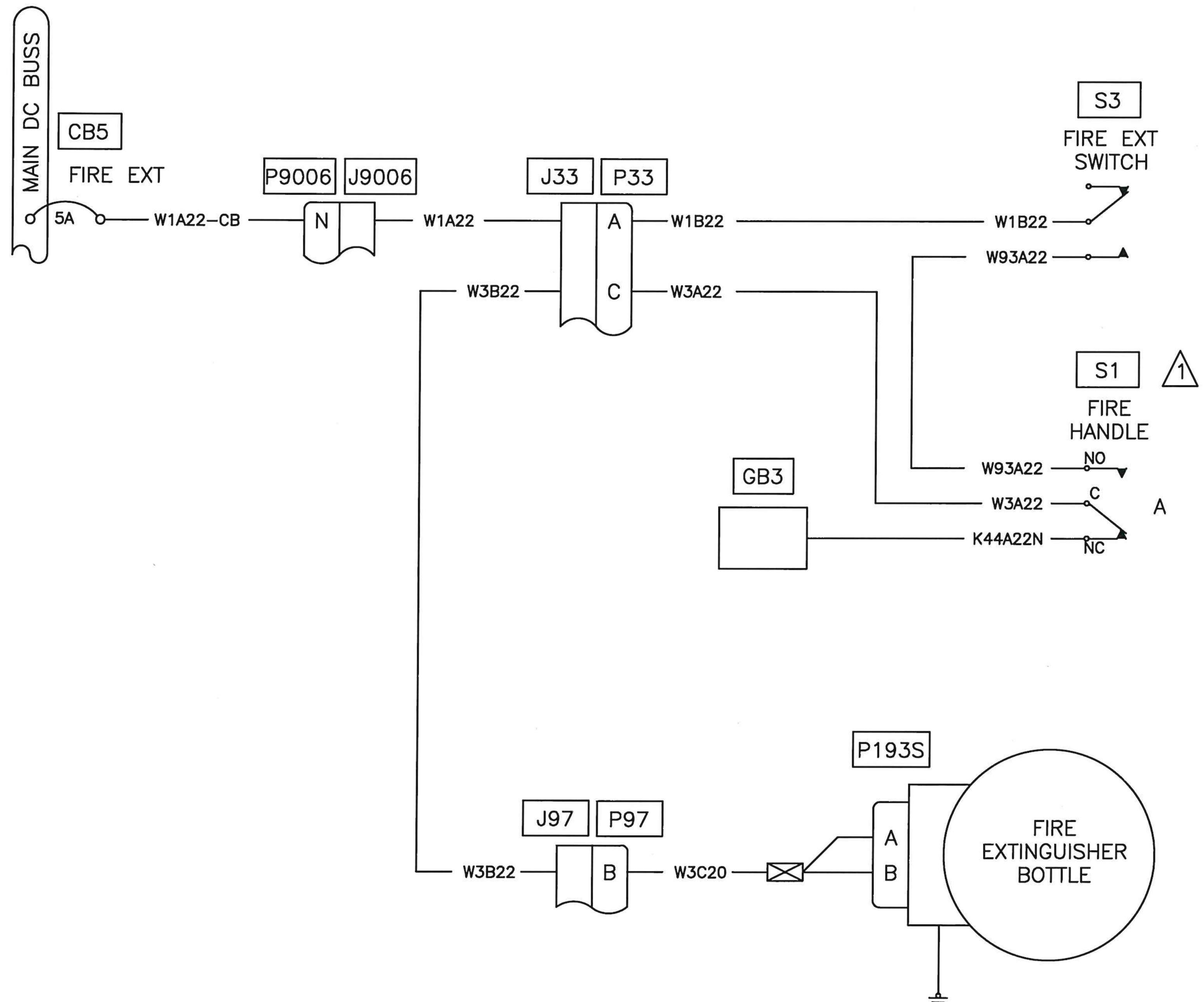
RD	RD		
CHECKED	APPROVED	DRAWING NO.	REV. C
RD	KB	D212–725–2	SHEET 8 OF 57
DATE		TITLE	SCALE
07.05.01		FIGURE 98–18S	NTS



NOTES:

1. REFER TO HEATING/AIR CONDITIONING SYSTEM FOR ADDITIONAL SWITCH POSITION HOOKUP.

Figure 98–19S. FIRE EXTINGUISHER SYSTEM

RELEASED
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2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
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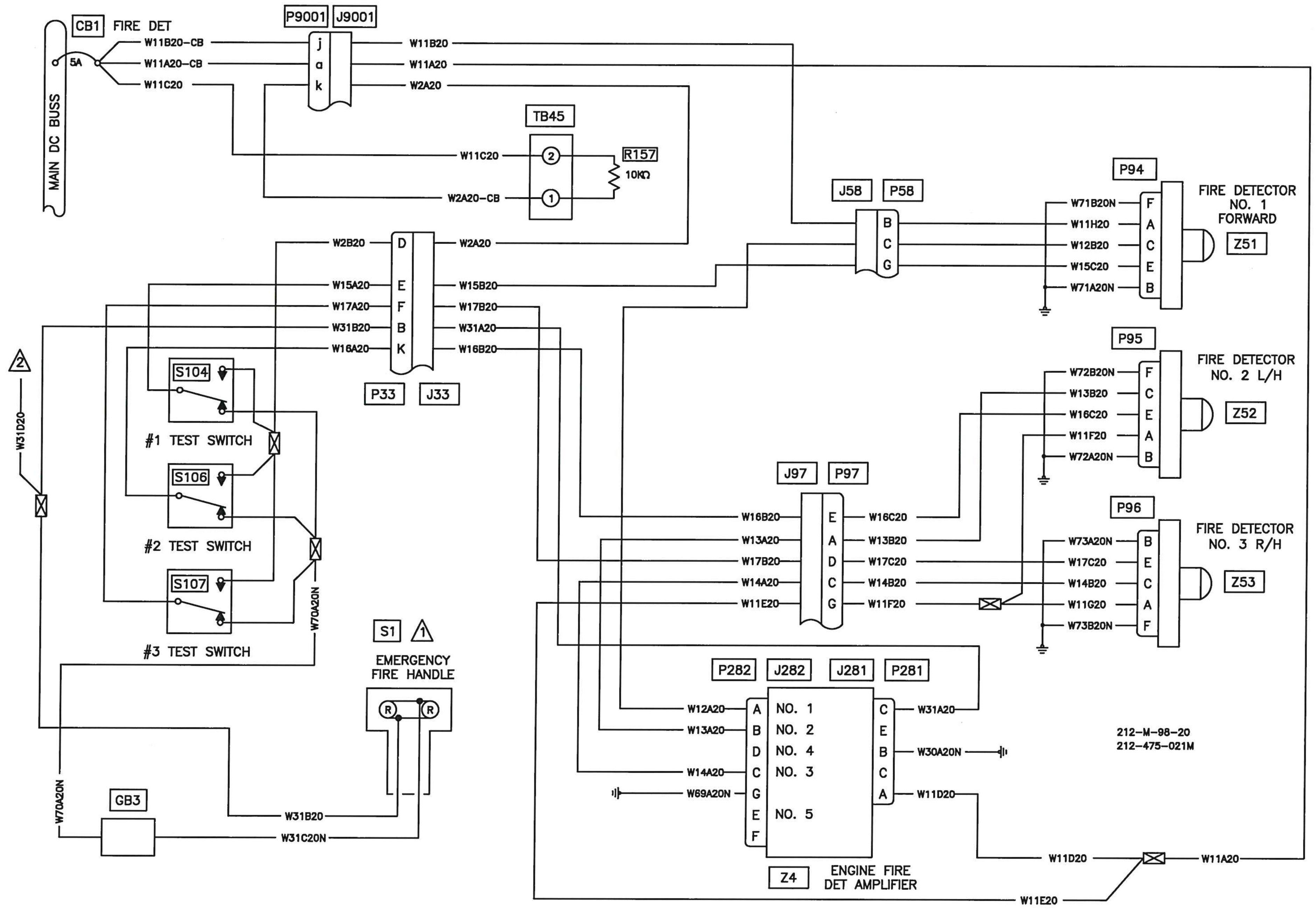
RD	KB	
DATE		TITLE FIGURE 98–19S SCALE NTS
07.01.30		



NOTES:

1. THE HANDLE SWITCHES ARE USED IN THE FIRE EXTINGUISHER SYSTEM AND HEATER/AIR CONDITIONING SYSTEM.
2. REFER TO VERTICAL REFERENCE DOOR WIRING DIAGRAM IF INSTALLED

Figure 98–20S. ENGINE FIRE DETECTION

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2020. 04. 20

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DATE 07.05.01		TITLE FIGURE 98–20S	SCALE NTS

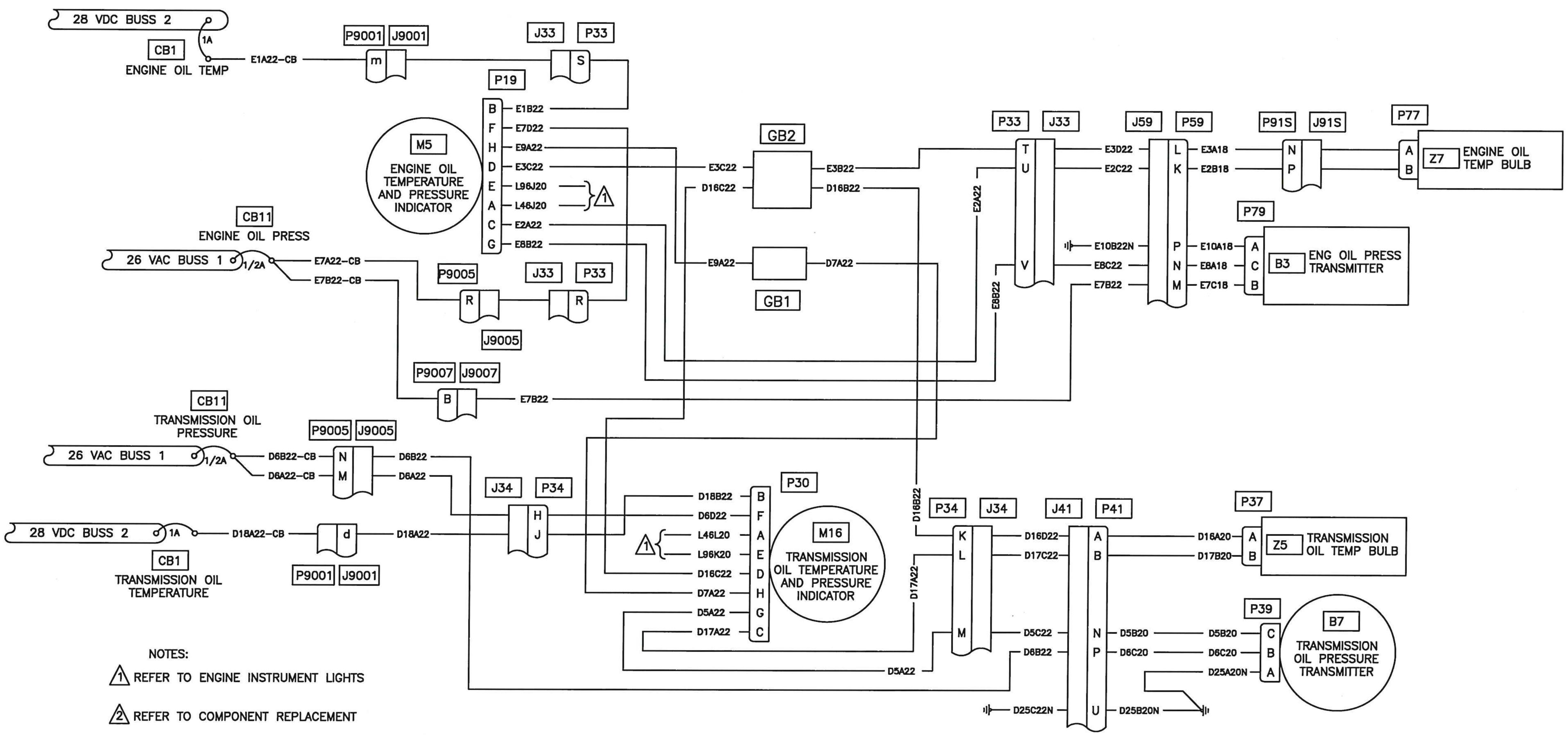

Figure 98–21S. OIL INDICATOR SYSTEM

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ECN 20-105
2020.04.20

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CHECKED	APPROVED	DRAWING NO. D212–725–2 REV. C SHEET 11 OF 57
RD	KB	
DATE		TITLE FIGURE 98–21S SCALE NTS
07.05.01		

NOTES:

1. REFER TO ENGINE INSTRUMENT LIGHTS WIRING DIAGRAM 98-36S.
2. REFER TO RPM LIMIT DETECTOR WIRING DIAGRAM 98-17S
3. REFER TO COMPONENT REPLACEMENT
4. USE MS3456W14S-7S CONNECTORS IN ALL 4 PLACES
5.
6.

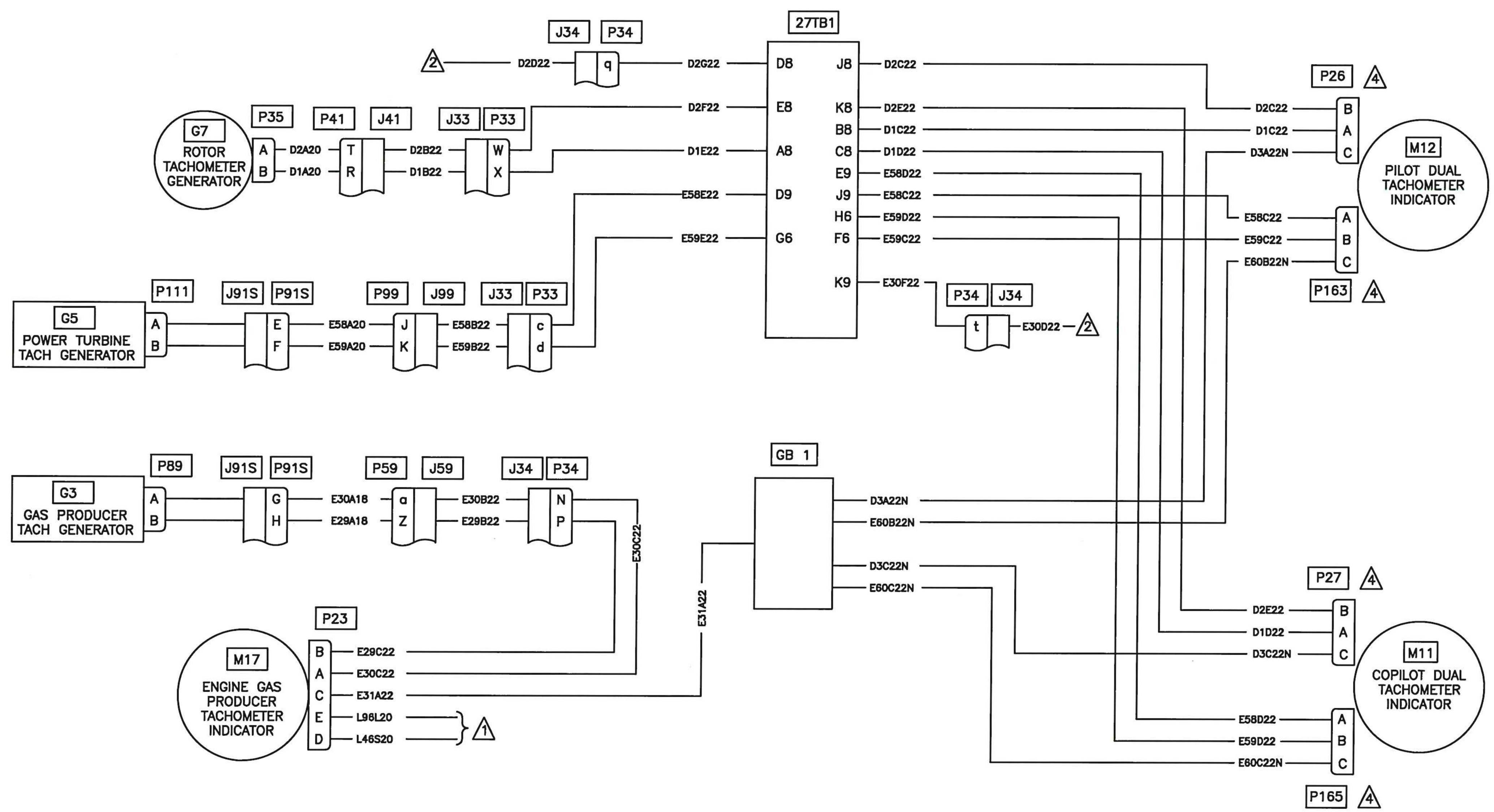

Figure 98-22S. DUAL TACHOMETER AND GAS PRODUCER TACHOMETER INDICATOR SYSTEM

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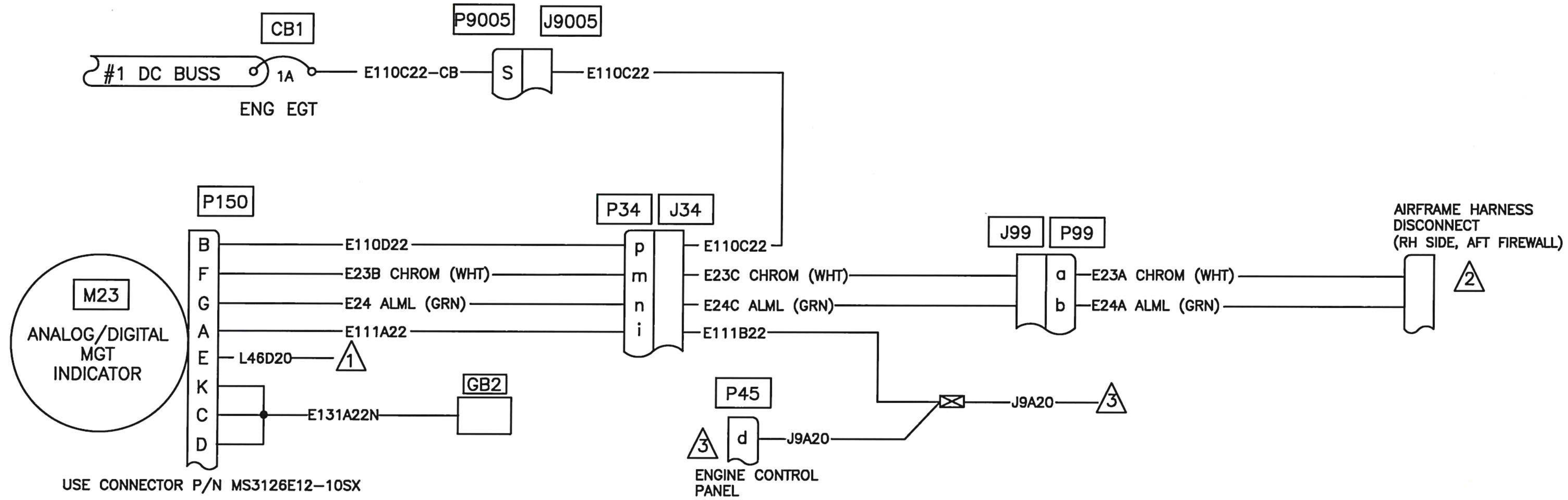
2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
RD	RD		
CHECKED	APPROVED	DRAWING NO.	REV. C
RD	KB	D212-725-2	SHEET 12 OF 57
DATE		TITLE	SCALE
07.05.01		FIGURE 98-22S	NTS



NOTES:

1. REFER TO ENGINE INSTRUMENT LIGHTS WIRING DIAGRAM 98–36S.
2. REFER TO ENGINE MANUFACTURER'S MAINTENANCE MANUAL
3. REFER TO ENGINE START WIRING DIAGRAM 98–14S.

Figure 98–23S. MGT/EGT INDICATOR SYSTEM

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2020.04.20

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RD	KB	
DATE		TITLE FIGURE 98–23S SCALE NTS
07.05.01		

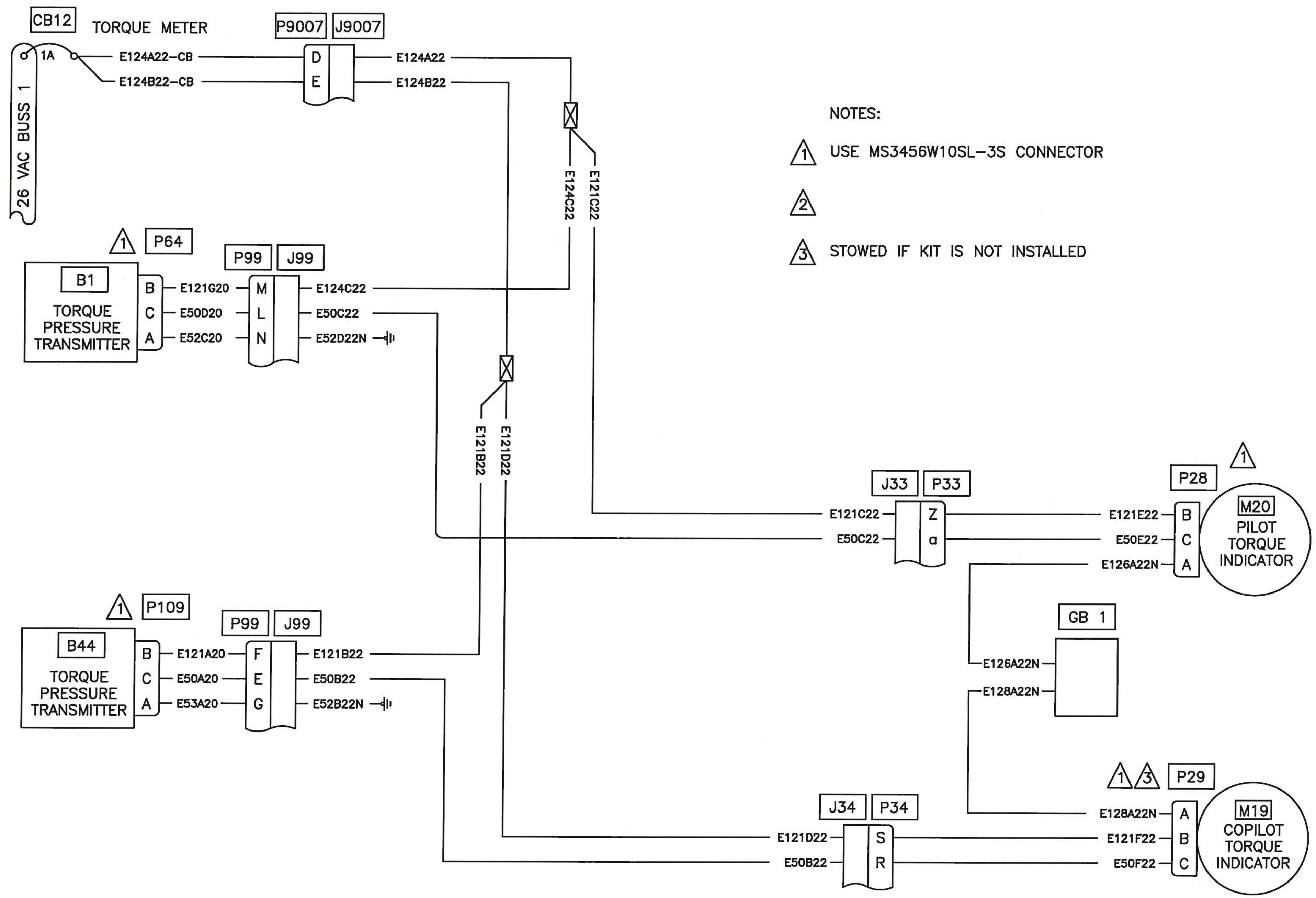

Figure 98–24S. TORQUE INDICATOR SYSTEM

DESIGN RD	DRAWN BY RD	DART	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
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DATE 07.05.01		TITLE FIGURE 98–24S	SCALE NTS

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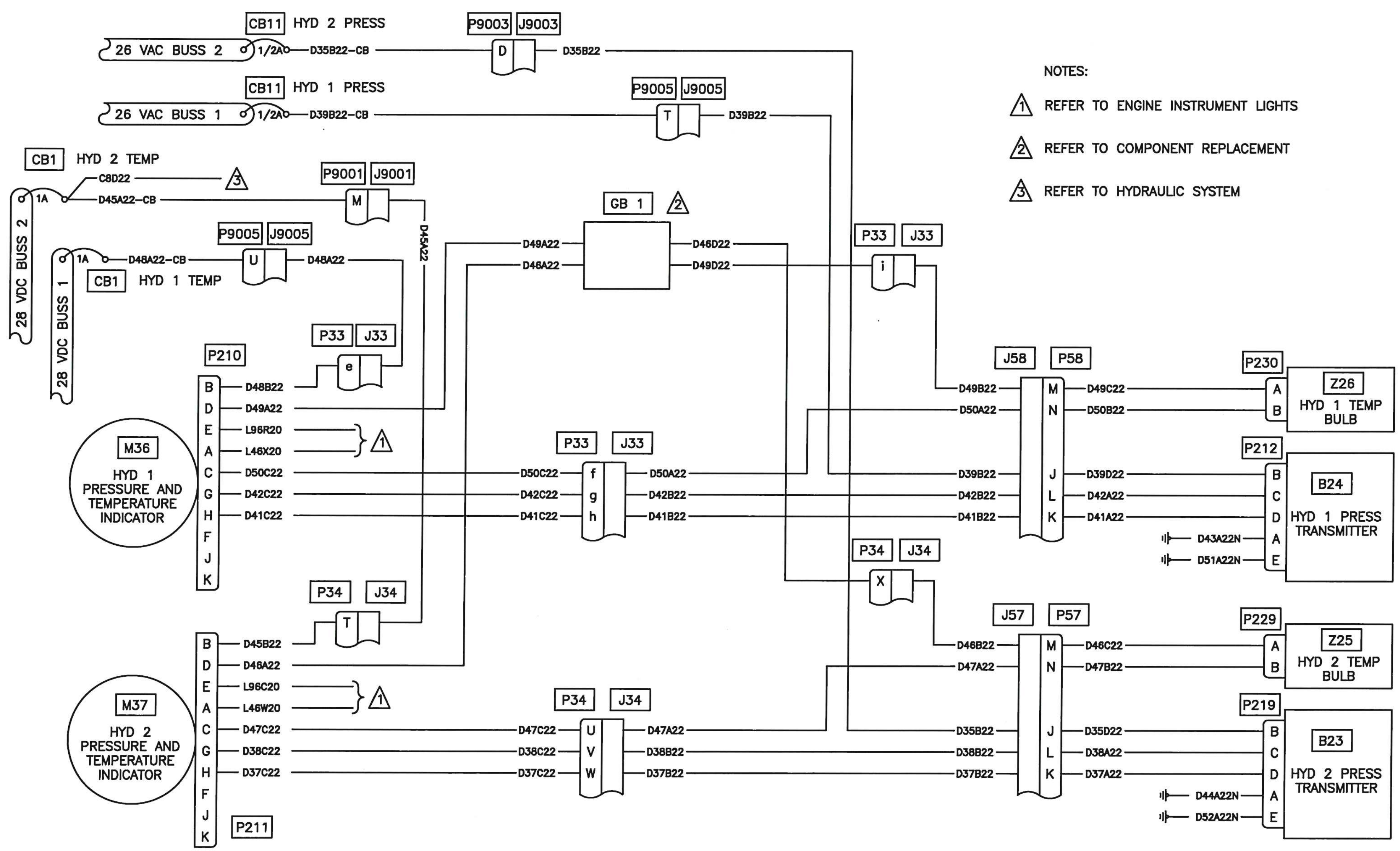

Figure 98–25S. HYDRAULIC PRESSURE AND TEMPERATURE INDICATORS

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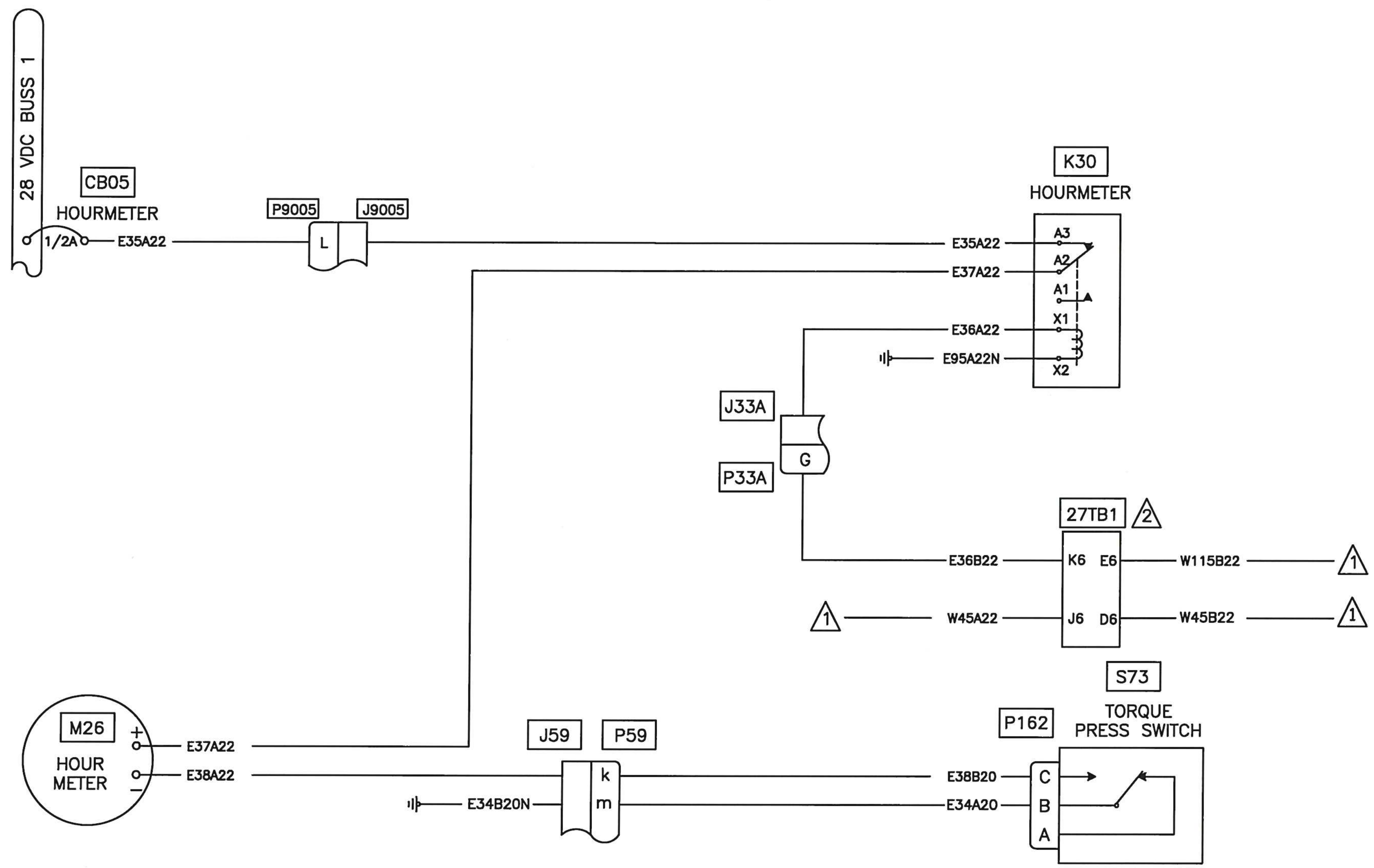
2020.04.20

DESIGN	DRAWN BY	DART	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
RD	RD		
CHECKED	APPROVED	DRAWING NO. D212–725–2	REV. B SHEET 15 OF 57
RD	KB		
DATE		TITLE	SCALE
07.01.30		FIGURE 98–25S	NTS



NOTES:

1. REFER TO MASTER CAUTION AND RPM CAUTION LIGHTS

2. REFER TO COMPONENT REPLACEMENT

Figure 98-26S. HOURMETER

RELEASED
ECN 20-105
2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
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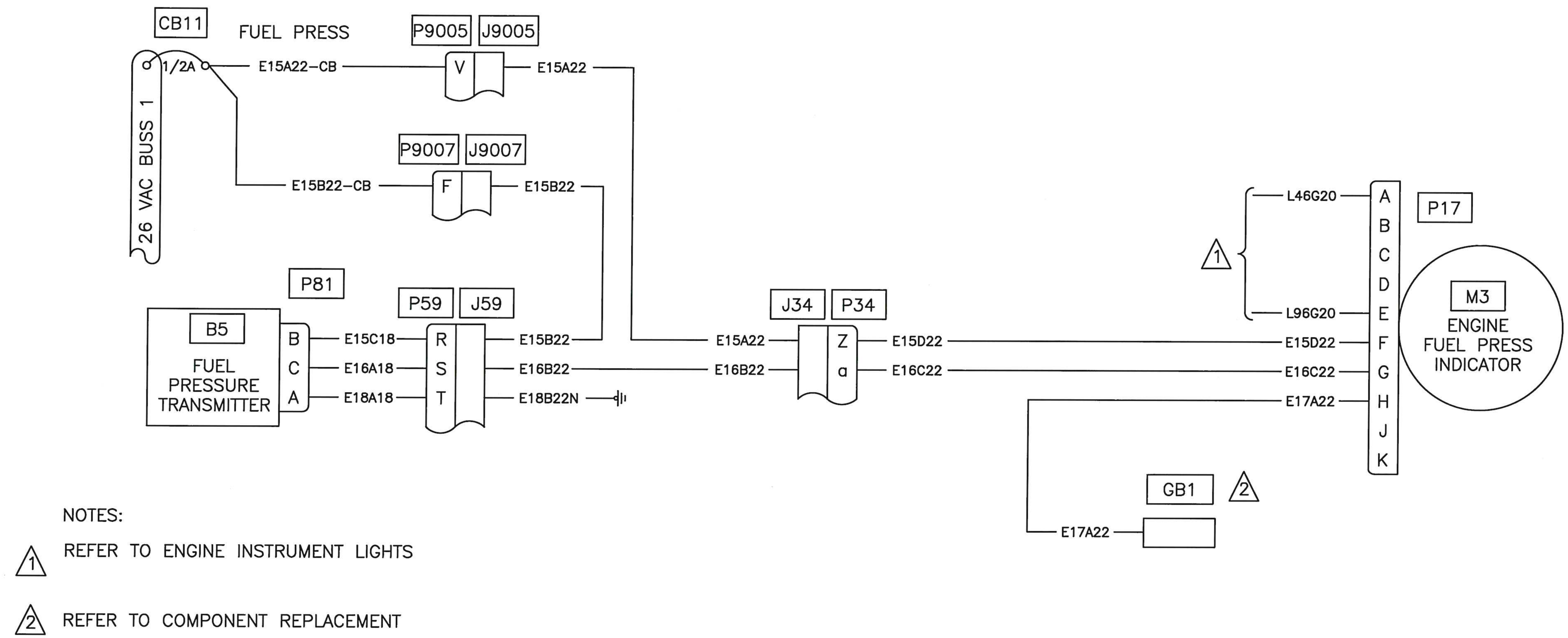
CHECKED	APPROVED	DRAWING NO. D212-725-2 REV. C SHEET 16 OF 57
RD	KB	
DATE		TITLE FIGURE 98-26S SCALE NTS
07.05.01		



NOTES:

1. REFER TO ENGINE INSTRUMENT LIGHTS

2. REFER TO COMPONENT REPLACEMENT

Figure 98-27S. ENGINE FUEL PRESSURE INDICATOR SYSTEM

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ECN 20-105
2020.04.20

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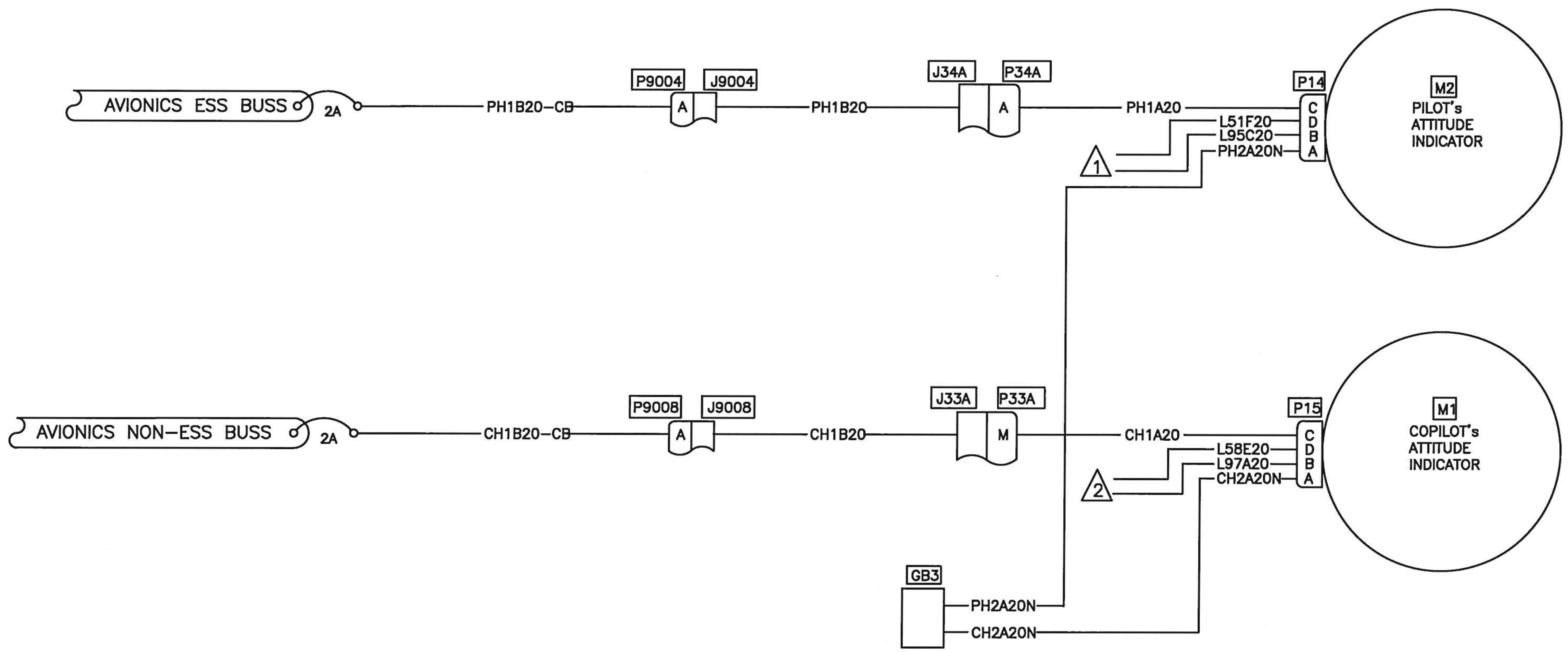
RD	RD		
CHECKED	APPROVED	DRAWING NO.	REV. B
RD	KB	D212-725-2	SHEET 17 OF 57
DATE		TITLE	SCALE
07.01.30		FIGURE 98-27S	NTS



NOTES:

1. REFER TO PILOT's INSTRUMENT LIGHTING
2. REFER TO COPILOT's INSTRUMENT LIGHTING

Figure 98–28S. PILOT AND COPILOT ATTITUDE INDICATORS

DESIGN	DRAWN BY	DART AEROSPACE LTD, HAWKESBURY, ONTARIO, CANADA
RD	RD	
CHECKED	APPROVED	DRAWING NO. D212–725–2 REV. B SHEET 18 OF 57
RD	KB	
DATE		TITLE FIGURE 98–28S SCALE NTS
07.01.30		

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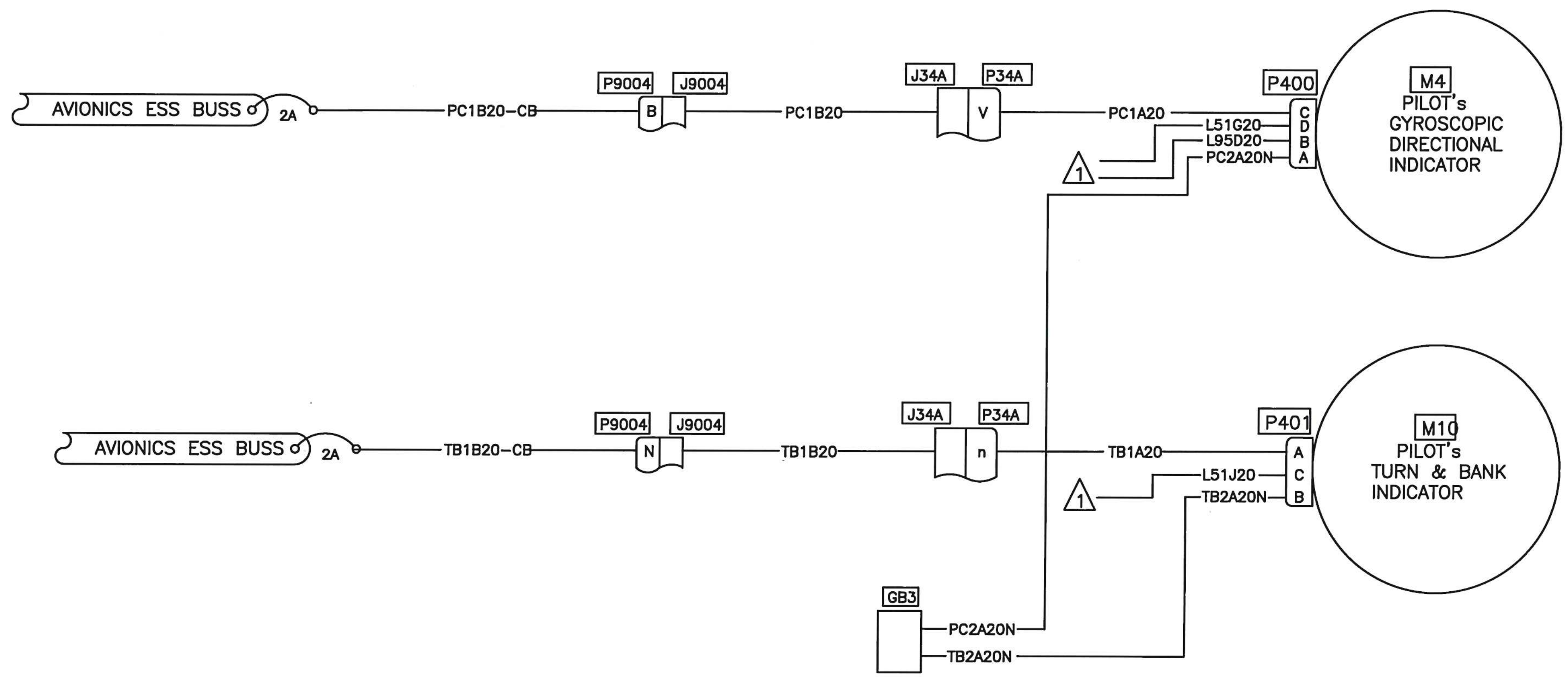
ECN 20-105
2020.04.20



NOTES:

1. REFER TO PILOT's INSTRUMENT LIGHTING

Figure 98–29S. PILOT'S TURN & BANK AND GYRO DIRECTIONAL INDICATORS

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ECN 20-105
2020.04.20

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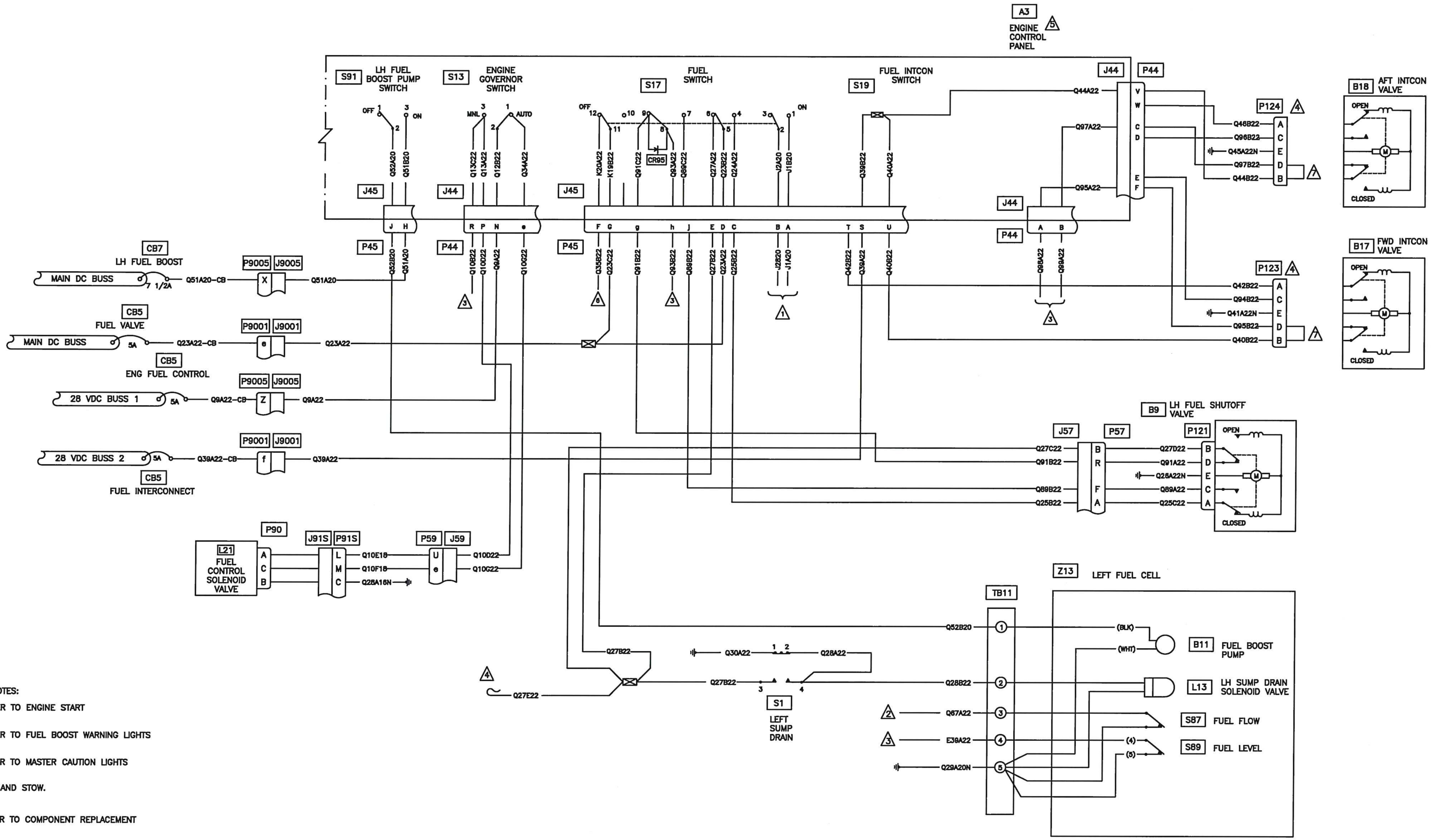
CHECKED RD	APPROVED KB	DRAWING NO. D212–725–2	REV. B SHEET 19 OF 57
DATE 07.01.30		TITLE FIGURE 98–29S	SCALE NTS



NOTES:

1. REFER TO ENGINE START
2. REFER TO FUEL BOOST WARNING LIGHTS
3. REFER TO MASTER CAUTION LIGHTS
4. CAP AND STOW.
5. REFER TO COMPONENT REPLACEMENT
6. REFER TO RH FUEL SYSTEM
7. INSERT JUMPER TO PREVENT MASTER CAUTION SEGMENT FROM ILLUMINATING.

Figure 98–30S. LH FUEL SYSTEM

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2020.09.20

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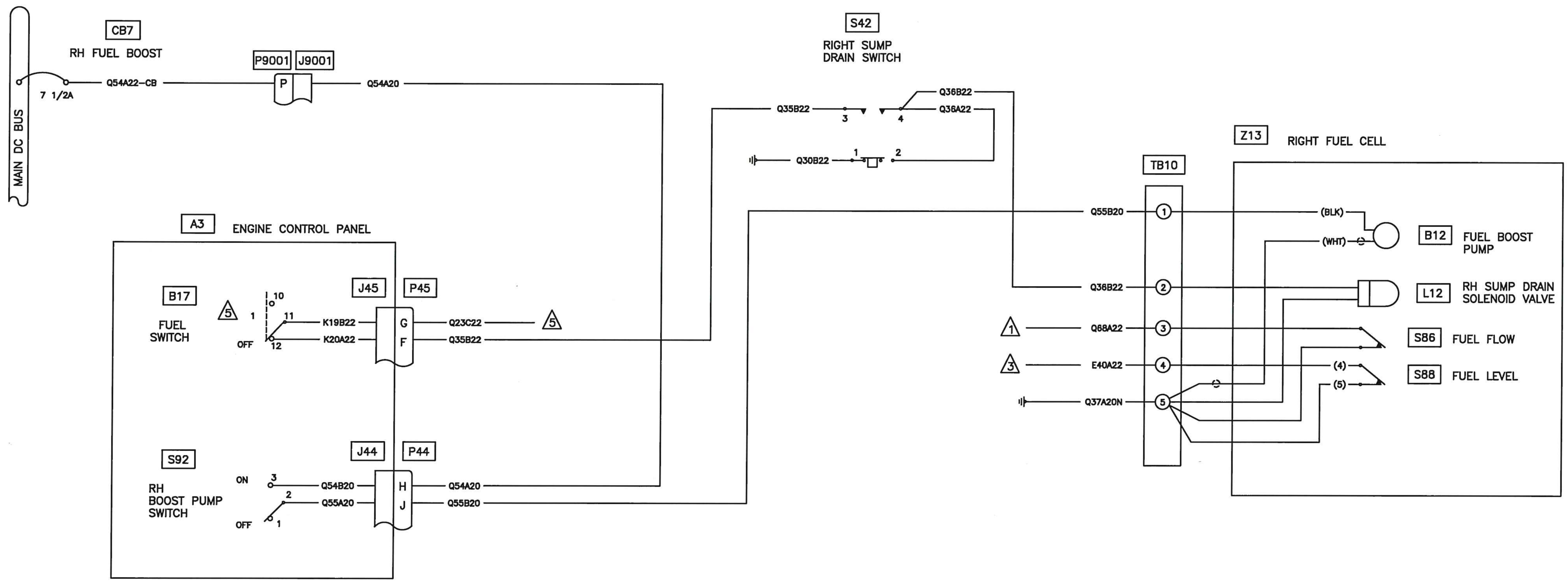
RD	RD		
CHECKED	APPROVED	DRAWING NO. D212–725–2	REV. C SHEET 20 OF 57
RD	KB		
DATE		TITLE	SCALE
07.05.01		FIGURE 98–30S	NTS



NOTES:

1. REFER TO FUEL BOOST WARNING LIGHTS
2. REFER TO ENGINE START
3. REFER TO MASTER CAUTION LIGHTS
4.
5. REFER TO LH FUEL SYSTEM

Figure 98–31S. RH FUEL SYSTEM

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2020. 04. 20

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CHECKED	APPROVED	DRAWING NO. D212–725–2 REV. B SHEET 21 OF 57
RD	KB	
DATE		TITLE FIGURE 98–31S SCALE NTS
07.01.30		

ENGINE CONTROL PANEL MODIFICATION

1. REMOVE GOVERNOR #1 SWITCH AND WIRING.
2. REMOVE PARTICLE SEPARATOR #2 SWITCH AND WIRING.
3. REMOVED RH FUEL VALVE SWITCH AND WIRING.
4. REMOVE FUEL X-FEED SWITCH AND WIRING. REMOVE DIDODES FROM TB4 AND REMOVE RELAY.
5. REMOVE FUEL X-FEED TEST SWITCH AND WIRING.
6. MOVE LH FUEL VALVE SWITCH TO CENTER POSITION WHERE TEST SWITCH WAS.

GOVERNOR #2 SWITCH WIRING CHANGE

1. REMOVED WIRE Q34A22N FROM '1'
2. REMOVE DIODE FROM BETWEEN '1' & '2'
3. MOVE WIRES Q13C22 & Q13A22 FROM '2' TO '3'
4. MOVE WIRE Q12B22 FROM '3' TO '2'
5. ADD WIRE Q34A22 FROM '1' TO J44, PIN e.

FUEL VALVE SWITCH WIRING CHANGE

1. REMOVE WIRE K20A22 FROM 'NO' POSITION ON SECTION 1 OF SWITCH AND MOVE TO 'NC' POSITION. LEAVE WIRE IN J45, PIN F.

FUEL BOOST MASTER CAUTION WIRING CHANGE

1. REMOVE Q67B22 FROM TERMINAL 8 ON TB4 AND INSTALL ON TERMINAL 7 ALONG WITH Q79B22.
2. REMOVE Q68B22 FROM TERMINAL 5 ON TB4 AND INSTALL ON TERMINAL 4 ALONG WITH Q80B22.

ENGINE DE-ICE SWITCH WIRING CHANGE

1. INSTALL SWITCH (MS24523-22) IN OLD GOVERNOR #1 POSITION.
2. ADD WIRE H60C16 FROM '2' ON SWITCH TO J45, PIN L.
3. ADD WIRE H61C16 FROM '3' ON SWITCH TO J45, PIN M.

⚠7 START FUEL SWITCH (POST S.T.C.)

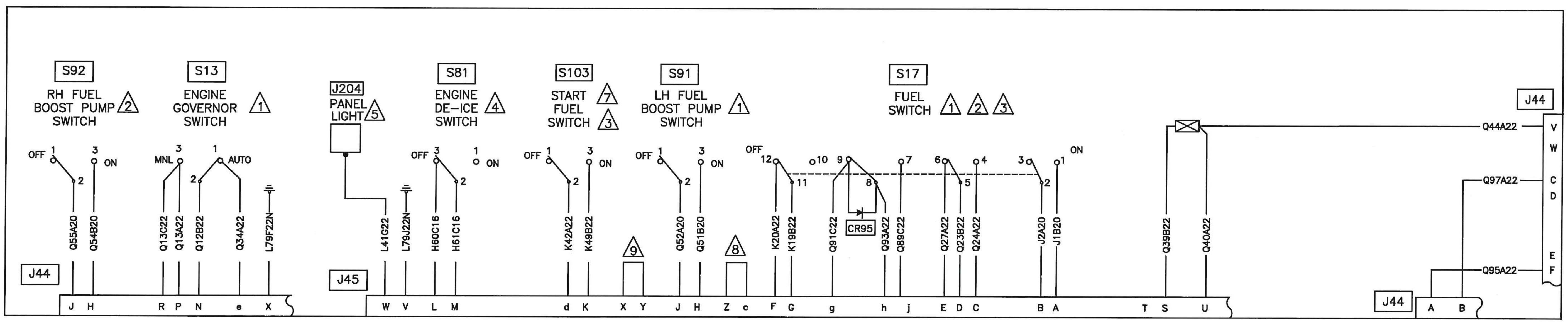
1. REMOVE WIRES K31D22, K50B22, AND K10A22 FROM SWITCH. CAP AND STOW WIRES.

FUEL INTCON SWITCH WIRING CHANGE

1. REMOVE EXISTING FUEL INTCON SWITCH.
2. INSTALL WIRES AS PER DIAGRAM.

A3

ENGINE CONTROL PANEL (MODIFIED)



NOTES:

⚠1 REFER TO WIRING DIAGRAM 98-30

⚠2 REFER TO WIRING DIAGRAM 98-31

⚠3 REFER TO WIRING DIAGRAM 98-14

⚠4 REFER TO WIRING DIAGRAM 98-65

⚠5 REFER TO WIRING DIAGRAM 98-39

⚠6

⚠7 SWITCH INSTALLED AS PER START FUEL STC.

⚠8 REFER TO WIRING DIAGRAM 98-38, Sheet 1

⚠9 REFER TO WIRING DIAGRAM 98-38, Sheet 3

FIG. 98-32S ENGINE CONTROL PANEL(Modified)

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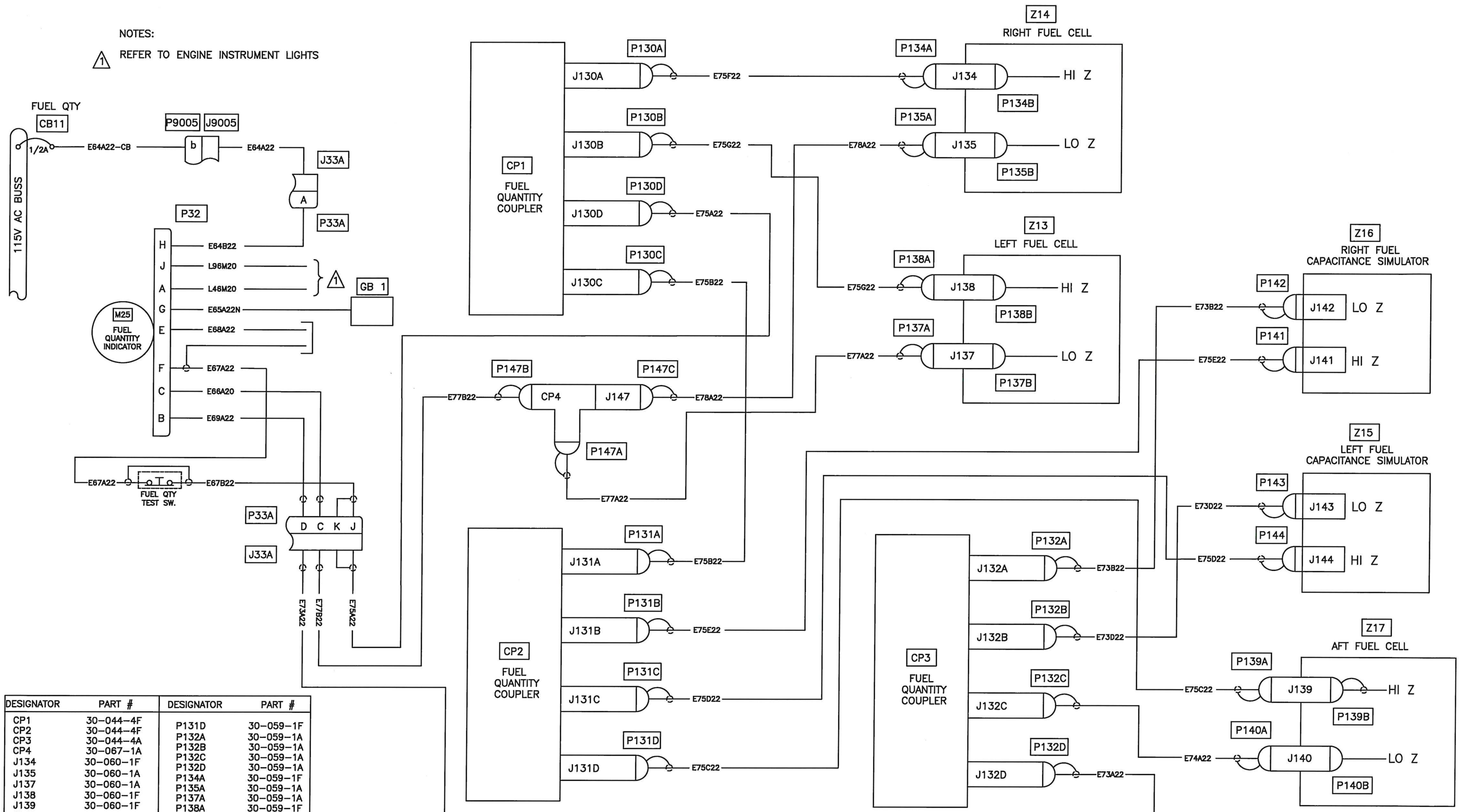
CHECKED	APPROVED	DRAWING NO.	REV. C
RD	KB	D212-725-2	SHEET 22 OF 57
DATE		TITLE	SCALE
07.05.01		FIGURE 98-32S	NTS

NOTES:

⚠1 REFER TO ENGINE INSTRUMENT LIGHTS



DESIGNATOR	PART #	DESIGNATOR	PART #
CP1	30-044-4F	P131D	30-059-1F
CP2	30-044-4F	P132A	30-059-1A
CP3	30-044-4A	P132B	30-059-1A
CP4	30-067-1A	P132C	30-059-1A
J134	30-060-1F	P132D	30-059-1A
J135	30-060-1A	P134A	30-059-1F
J137	30-060-1A	P135A	30-059-1A
J138	30-060-1F	P137A	30-059-1A
J139	30-060-1F	P138A	30-059-1F
J140	30-060-1A	P139A	30-059-1F
J147	30-060-1A	P140A	30-059-1A
P130A	30-059-1F	P141	30-059-1F
P130B	30-059-1F	P142	30-059-1A
P130C	30-059-1F	P143	30-059-1A
P130D	30-059-1F	P144	30-059-1F
P131A	30-059-1F	P147A	30-059-1A
P131B	30-059-1F	P147B	30-059-1A
P131C	30-059-1F	P147C	30-059-1A

Figure 98-33S. FUEL QUANTITY INDICATION SYSTEM

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RD	RD		
CHECKED	APPROVED	DRAWING NO.	REV. C
RD		D212-725-2	SHEET 23 OF 57
DATE		TITLE	SCALE
09.14.07		FIGURE 98-33S	NTS

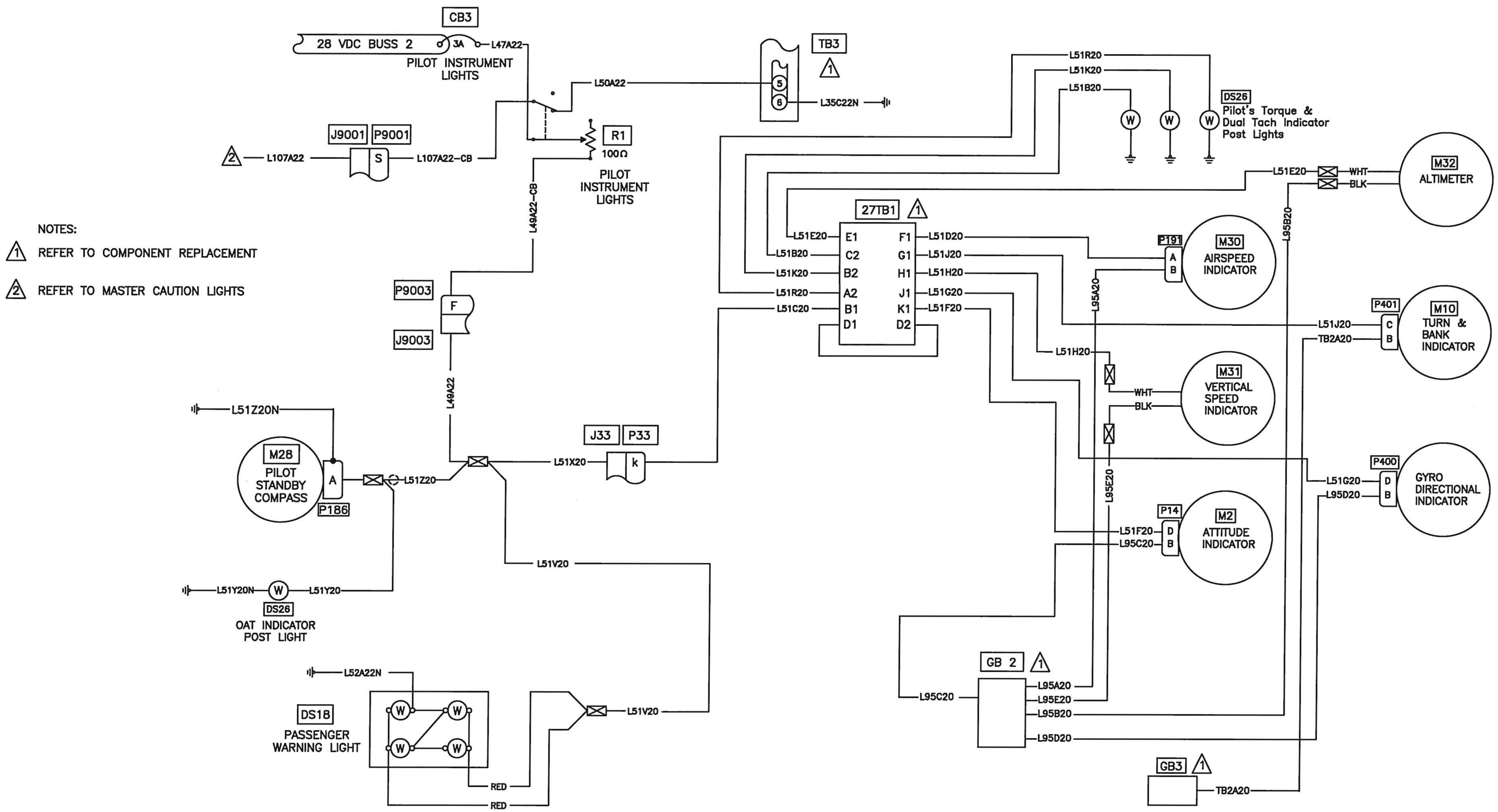

Figure 98–34S. PILOT INSTRUMENT LIGHTS

RELEASED
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2020.04.20

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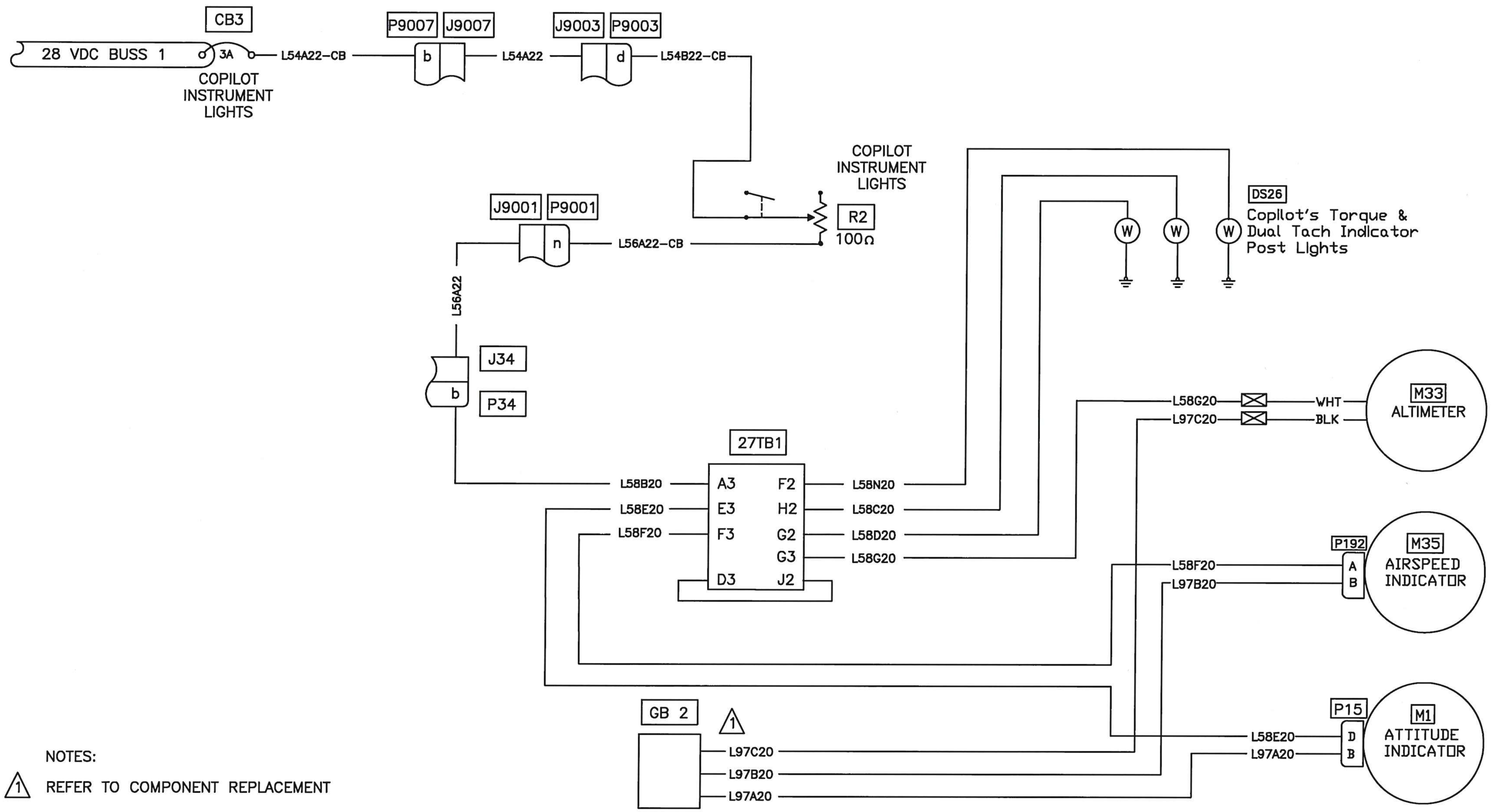
RD	RD		
CHECKED	APPROVED	DRAWING NO.	REV. C
RD		D212–725–2	SHEET 24 OF 57
DATE		TITLE	SCALE
07.05.01		FIGURE 98–34S	NTS



NOTES:

1 REFER TO COMPONENT REPLACEMENT

Figure 98–35S. COPILOT INSTRUMENT LIGHTS

RELEASED
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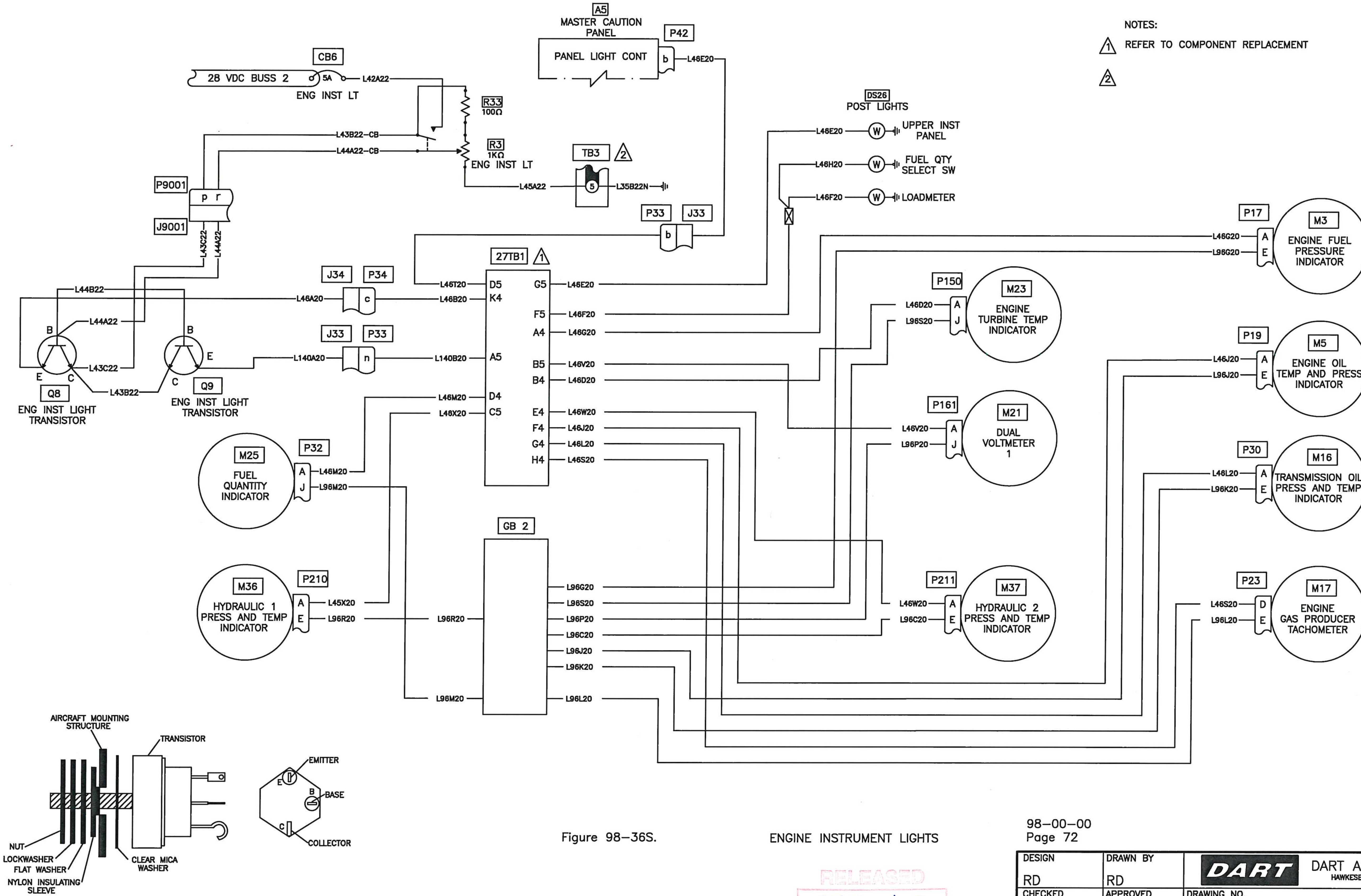
2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD, HAWKESBURY, ONTARIO, CANADA
RD	RD	
CHECKED	APPROVED	DRAWING NO. D212–725–2 REV. C SHEET 25 OF 57
RD	KB	
DATE		TITLE FIGURE 98–35S SCALE NTS
7.05.01		



TRANSISTOR INSTALLATION STACK UP

Figure 98–36S.

ENGINE INSTRUMENT LIGHTS

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2020.04.20

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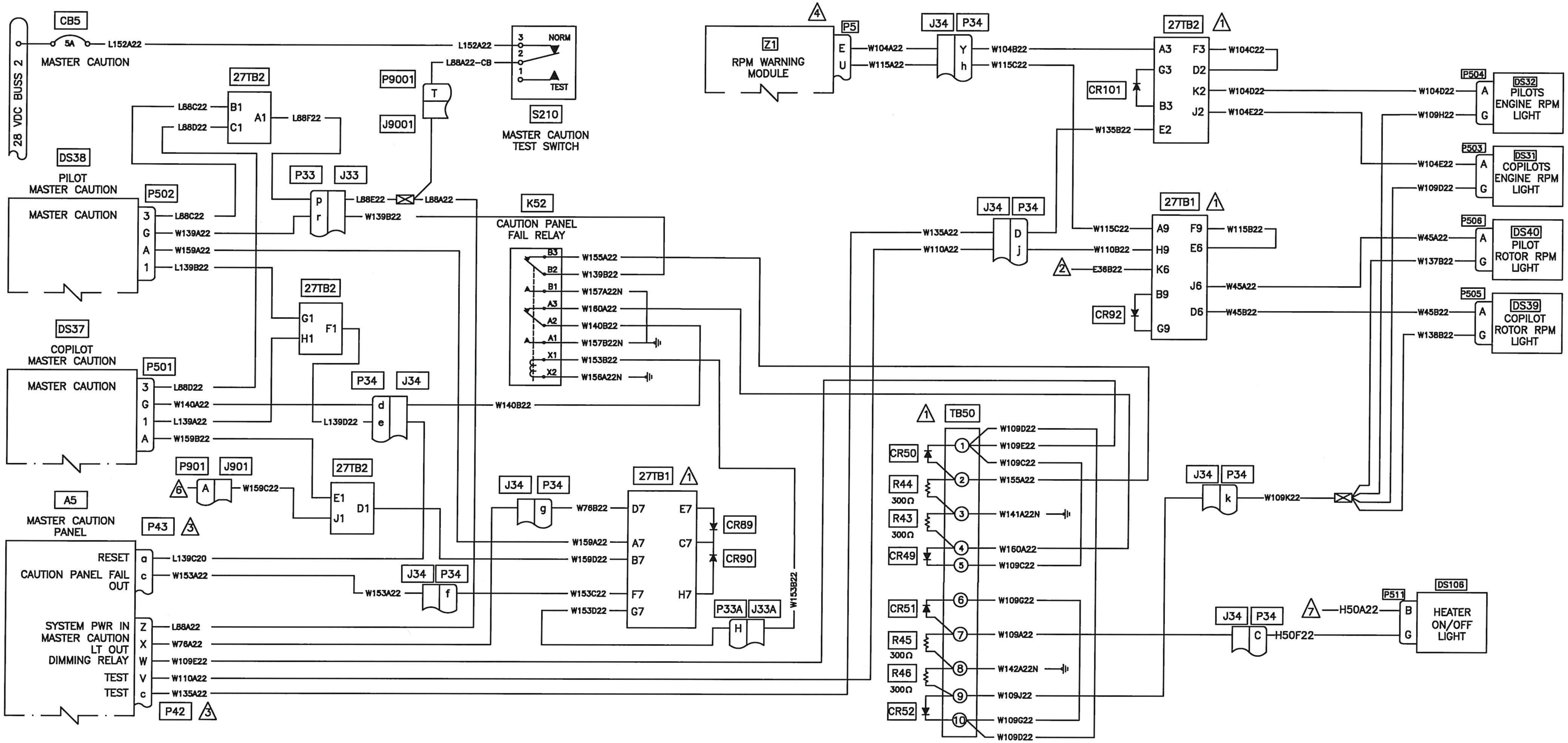
RD	RD	
CHECKED	APPROVED	DRAWING NO. D212–725–2 REV. C SHEET 26 OF 57
RD		
DATE		TITLE FIGURE 98–36S SCALE NTS
07.05.01		



NOTES:

1. REFER TO COMPONENT REPLACEMENT
2. REFER TO HOURMETER
3. REFER TO MASTER CAUTION LIGHTS 98-38, SHEET 3
4. REFER TO RPM LIMIT WARNING
5. REFER TO FLIGHT DATA RECORDER
6. REFER TO VERTICAL REFERENCE DOOR WIRING DIAGRAM IF DOOR INSTALLED
7. REFER TO HEATER SYSTEM DIAGRAM

Figure 98-37S. MASTER CAUTION AND RPM CAUTION LIGHTS

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RD	RD	
CHECKED	APPROVED	DRAWING NO. D212-725-2 REV. C SHEET 27 OF 57
RD		
DATE 07.05.01		TITLE FIGURE 98-37S SCALE NTS

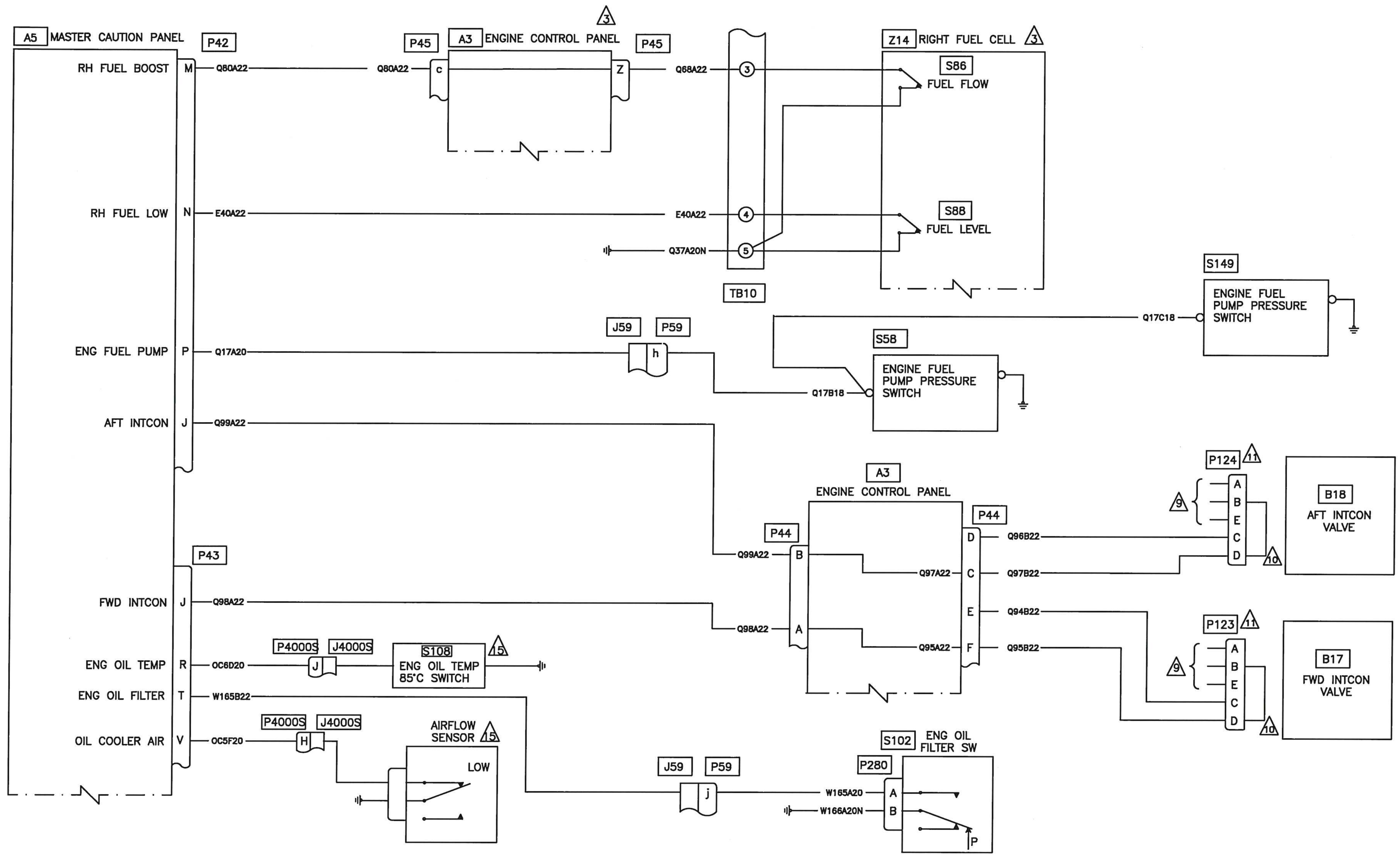

Figure 98–38S. MASTER CAUTION LIGHTS (Sheet 1 of 5)

ECN 20-105
2020.04.20

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CHECKED	APPROVED	DRAWING NO. D212–725–2 REV. C SHEET 28 OF 57
RD	KB	
DATE		TITLE FIGURE 98–38S SHEET 1 OF 5 SCALE NTS
07.05.01		

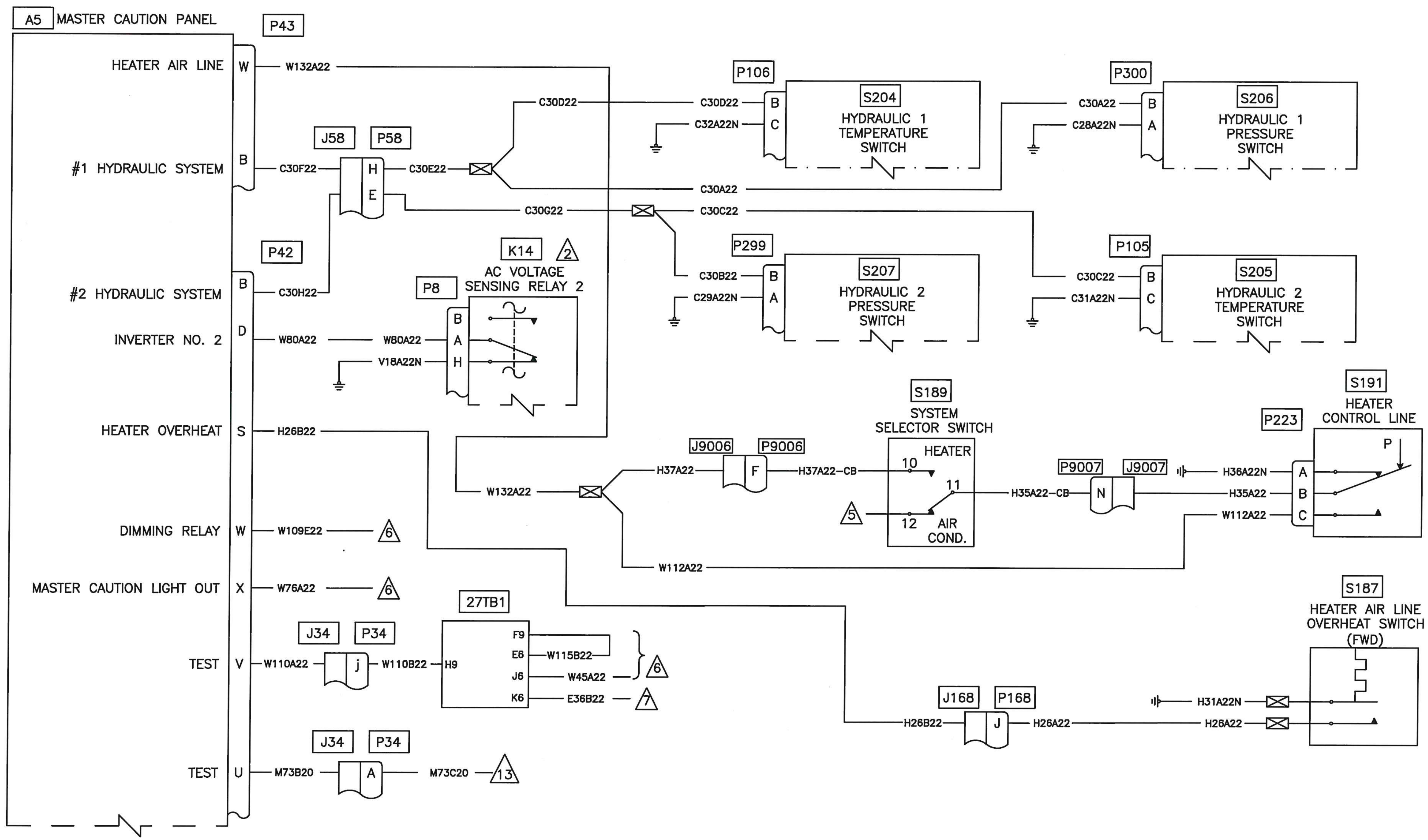

Figure 98–38S. MASTER CAUTION LIGHTS (Sheet 2 of 5)

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DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
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CHECKED RD	APPROVED KB	TITLE FIGURE 98–38S SHEET 2 OF 5 SCALE NTS
DATE 07.05.01		

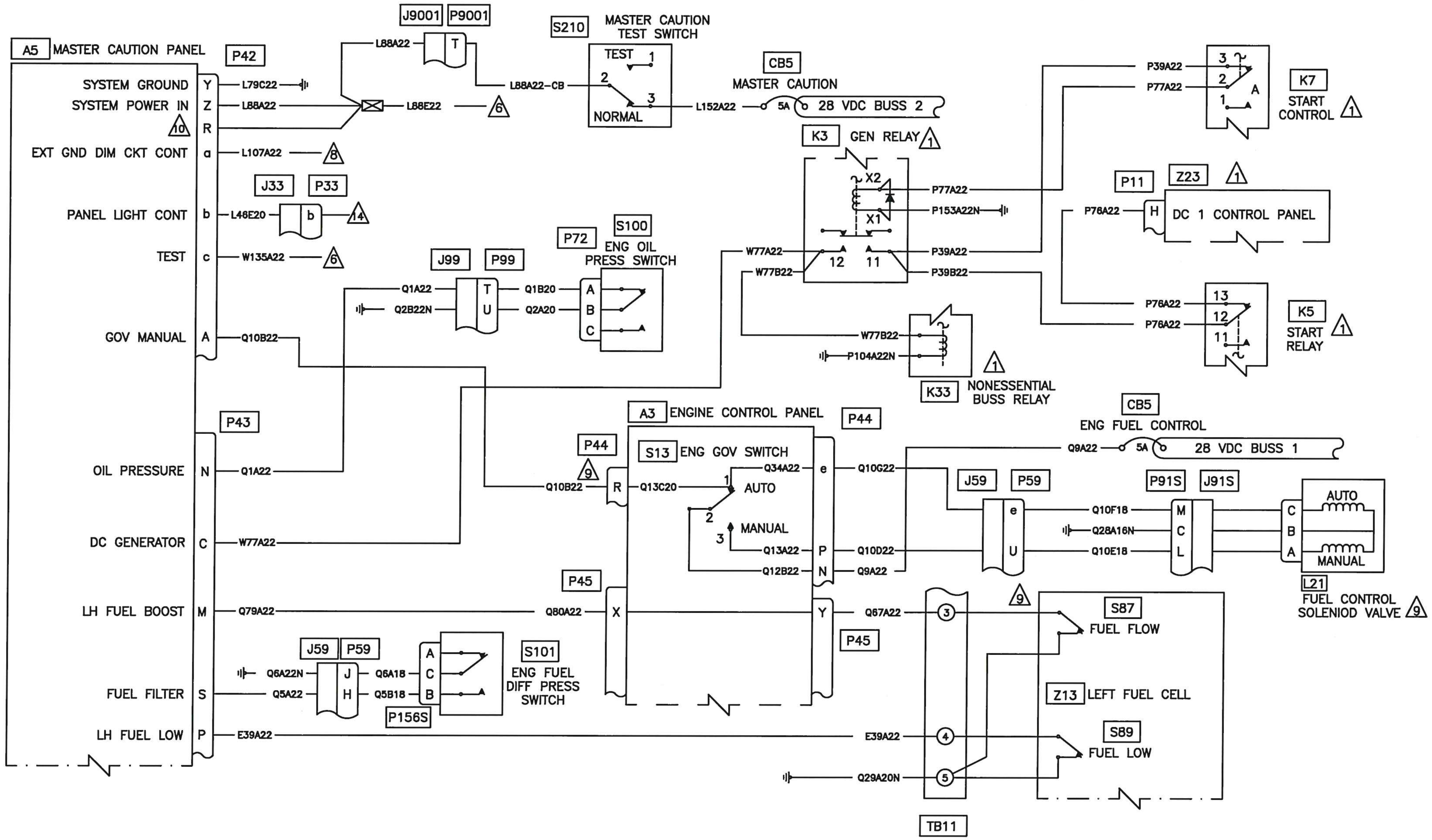

Figure 98–38S. MASTER CAUTION LIGHTS (Sheet 3 of 5)

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RD	RD	
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RD	KB	
DATE		TITLE — SCALE
07.05.01		FIGURE 98–38S SHEET 3 OF 5 — NTS

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2020.04.20

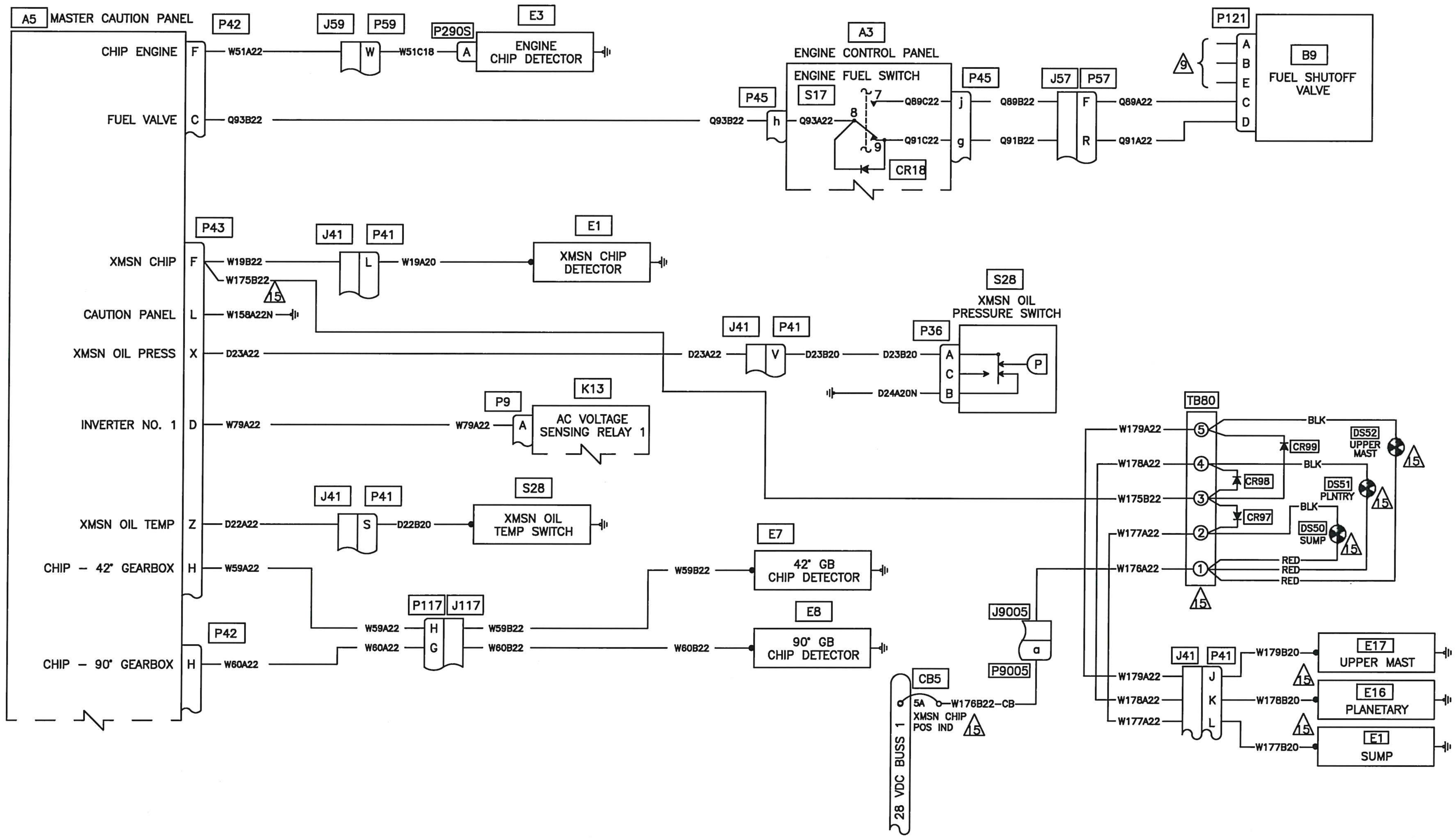

Figure 98–38S. MASTER CAUTION LIGHTS (Sheet 4 of 5)

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RD	RD	
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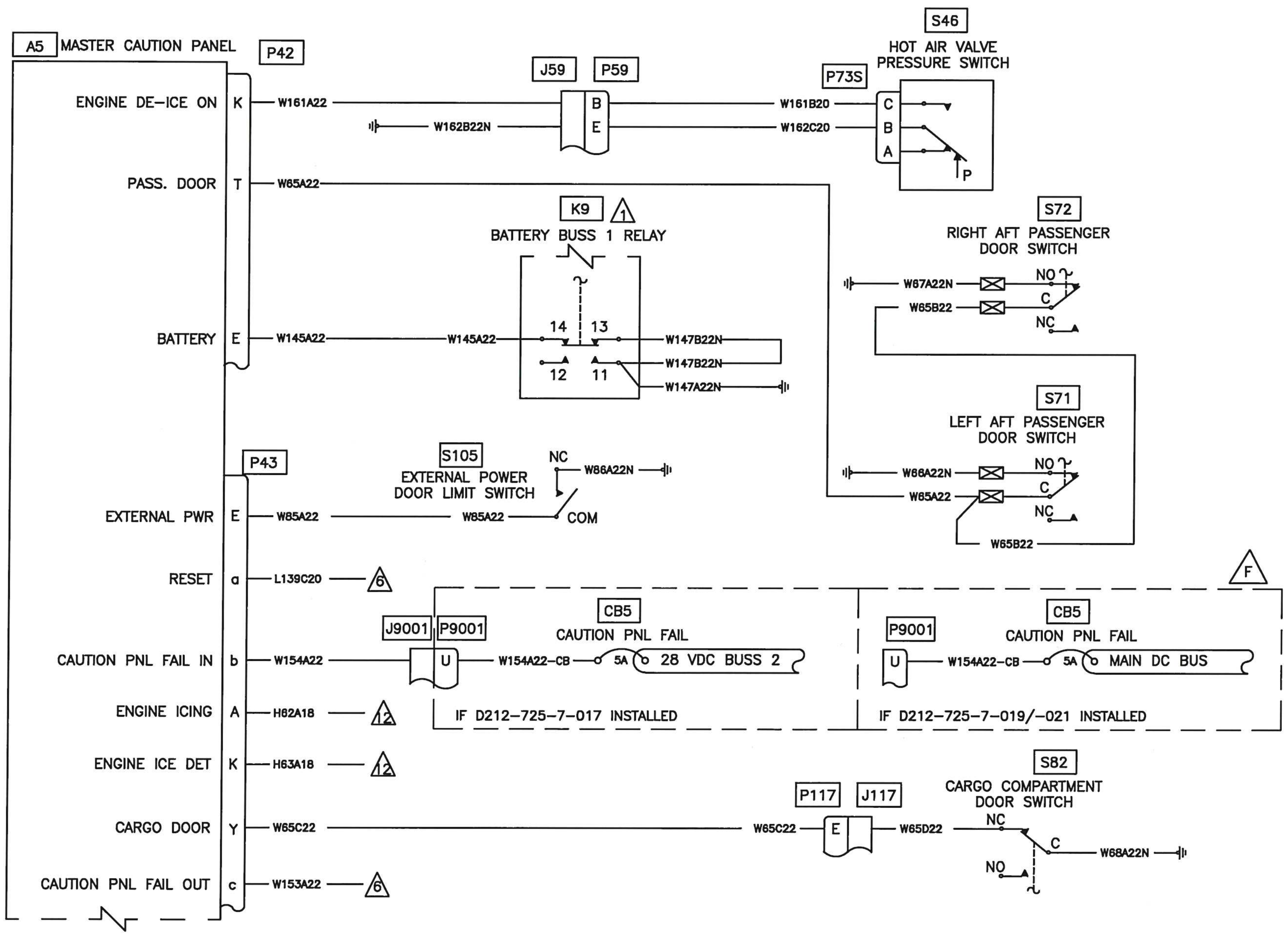
RD		
DATE		TITLE FIGURE 98–38S SHEET 4 OF 5 SCALE NTS
07.01.30		



NOTES:

1. REFER TO GENERATOR 1
2. REFER TO AC POWER SYSTEM
3. REFER TO RH FUEL SYSTEM
4. REFER TO FUEL CROSSFEED
5. REFER TO HEATER/AIR CONDITIONING
6. REFER TO MASTER CAUTION AND RPM CAUTION LIGHTS
7. REFER TO HOURMETER
8. REFER TO PILOT INSTRUMENT LIGHTS
9. REFER TO LH FUEL SYSTEM
10. 28VDC INPUT REQUIRED TO TURN LIGHT OFF ON BLANK SEGMENT.
11. CAP AND STOW.
12. REFER TO ENGINE ANTI-ICING
13. REFER TO CARGO RELEASE SYSTEM
14. REFER TO ENGINE INSTRUMENT LIGHTS
15. IF INSTALLED

Figure 98-38S. MASTER CAUTION LIGHTS (Sheet 5 of 5)

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DESIGN	DRAWN BY	DART AEROSPACE LTD, HAWKESBURY, ONTARIO, CANADA	
RD	WK		
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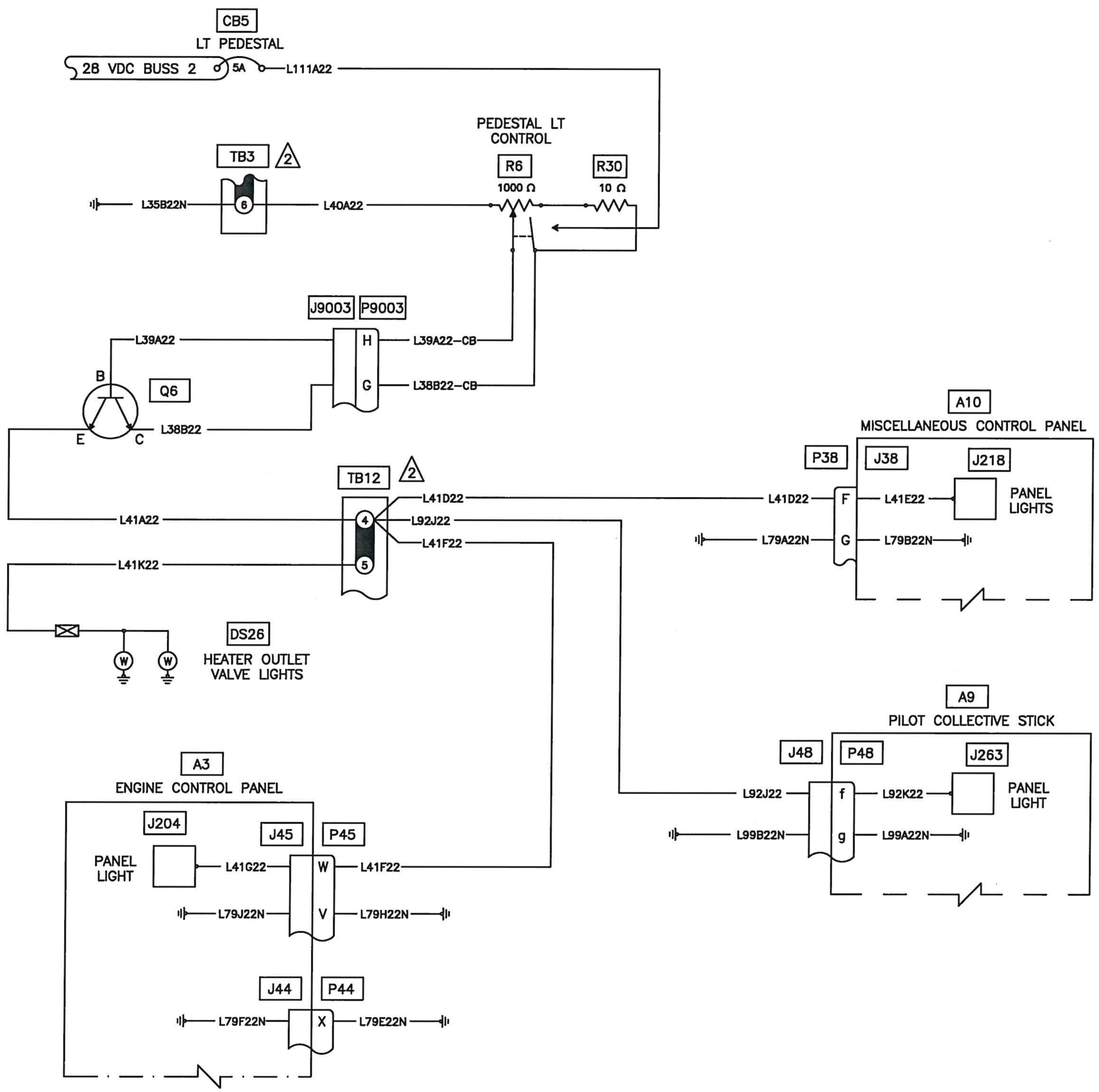
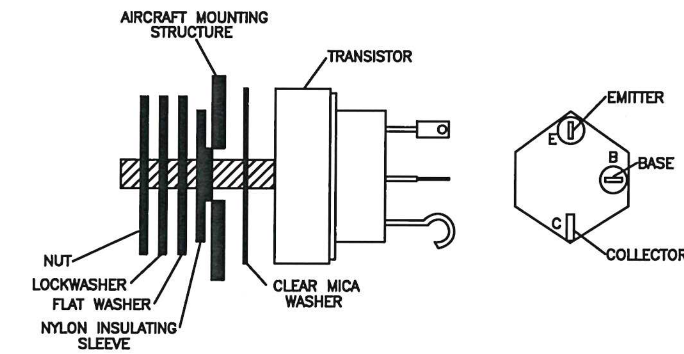
KB	KB	D212-725-2	SHEET 32 OF 57
DATE		TITLE	SCALE
20.03.20		FIGURE 98-38S SHEET 5 OF 5	NTS





TRANSISTOR INSTALLATION STACK UP

NOTES:

1. REFER TO AFCS POWER LIGHTING
2. REFER TO COMPONENT REPLACEMENT

Figure 98–39S. PEDESTAL LIGHTS

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2020.04.20

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RD	RD	
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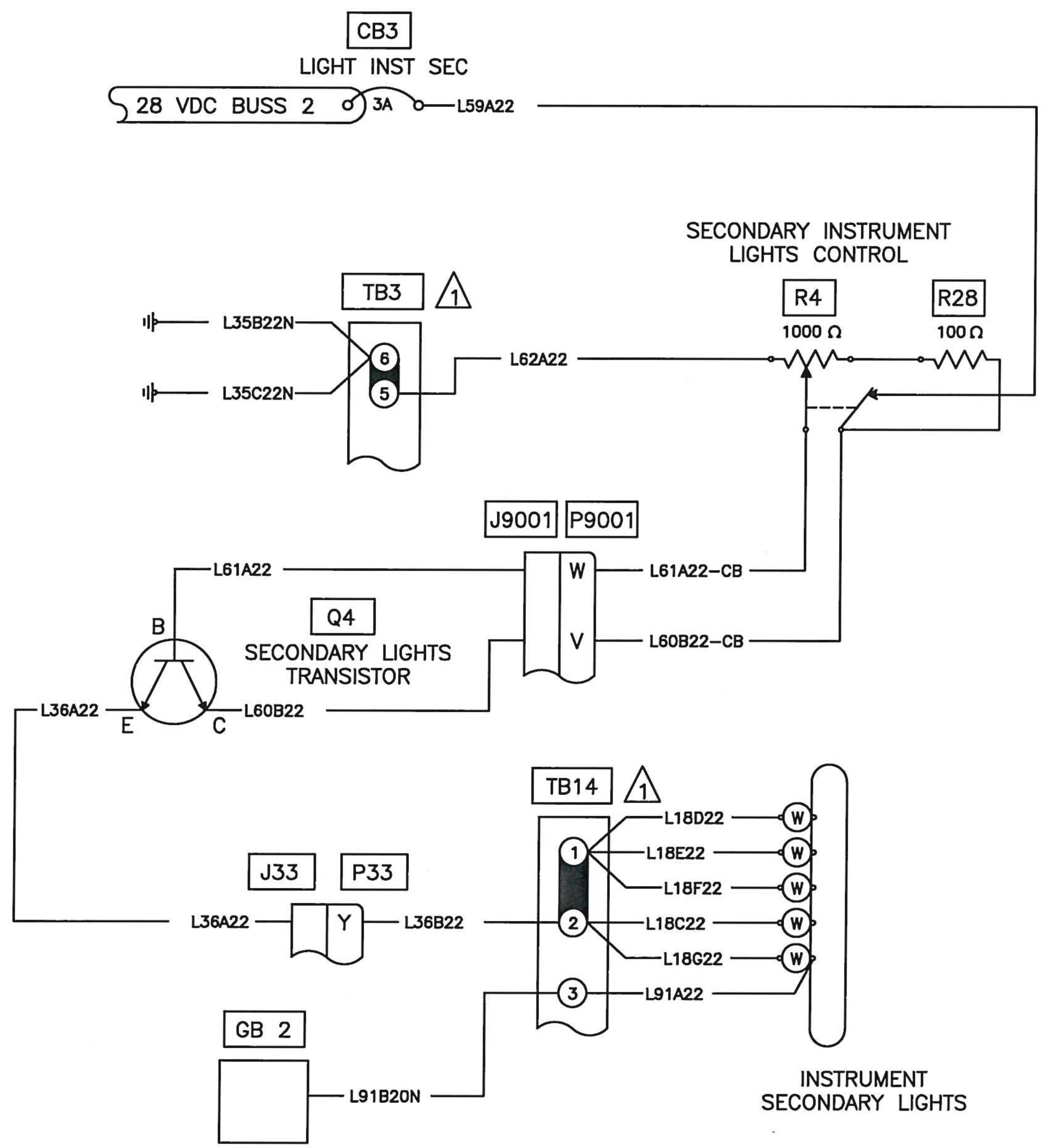
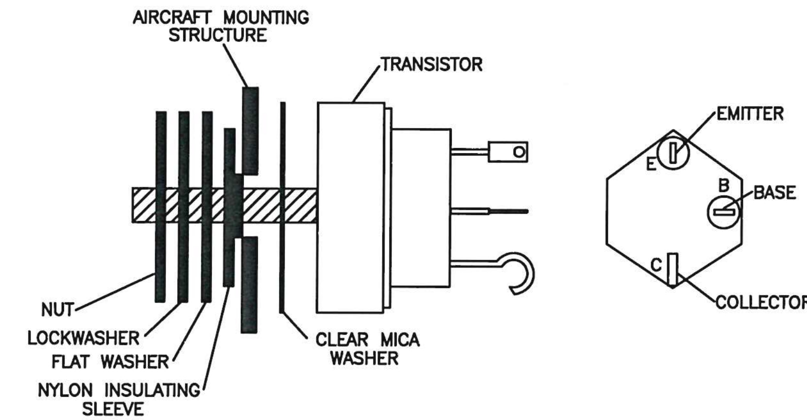
RD	KB	
DATE		TITLE FIGURE 98–39S — SCALE NTS
07.01.30		





TRANSISTOR INSTALLATION STACK UP

NOTES:

1. REFER TO COMPONENT REPLACEMENT

Figure 98-40S. SECONDARY LIGHTS

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2020.04.20

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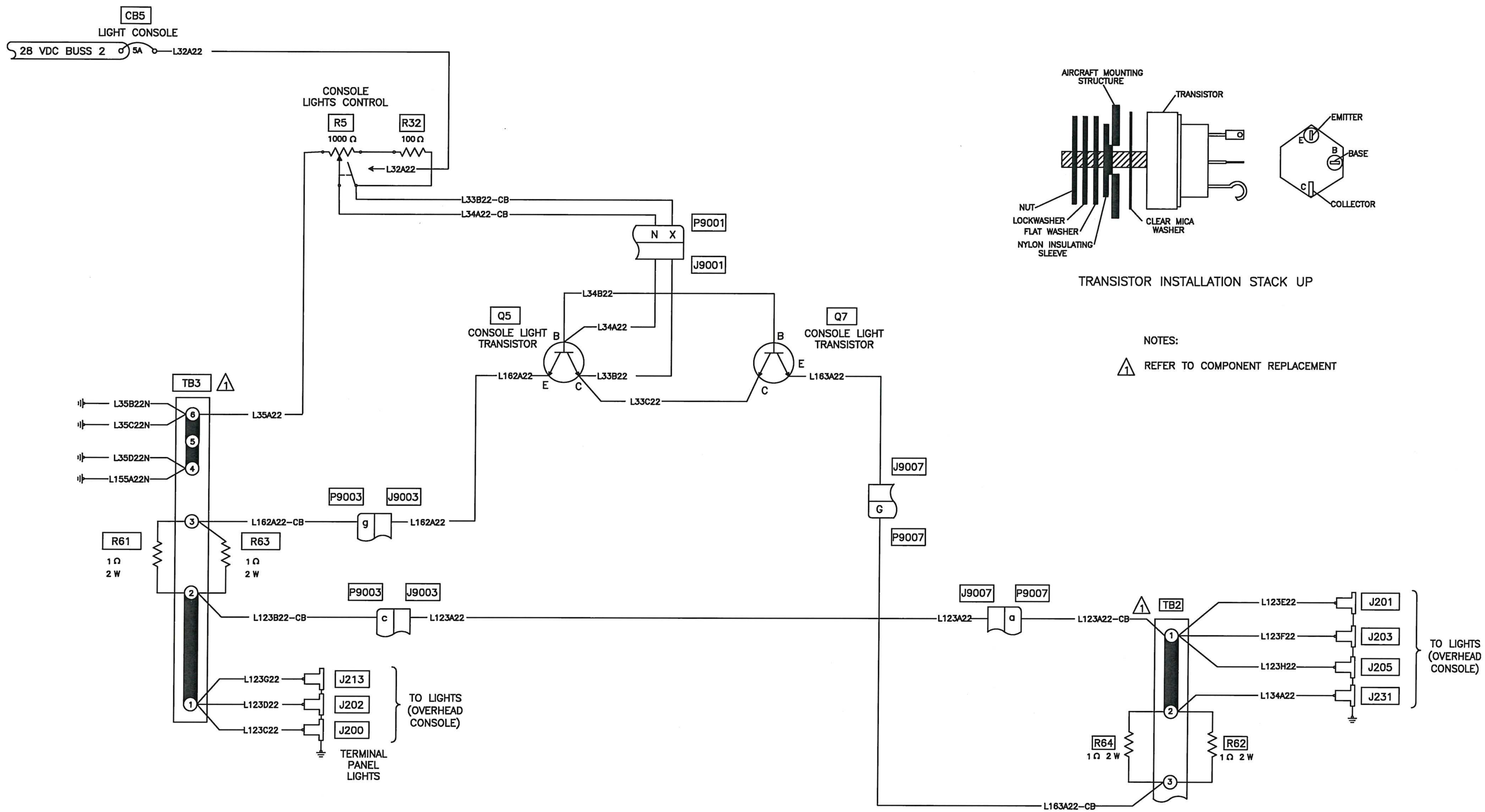
DATE 07.01.30		TITLE FIGURE 98-40S — SCALE NTS



TRANSISTOR INSTALLATION STACK UP

NOTES:

⚠1 REFER TO COMPONENT REPLACEMENT

Figure 98-41S. OVERHEAD LIGHTS

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2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
RD	RD	DRAWING NO. D212-725-2 REV. B SHEET 35 OF 57
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DATE 07.01.30		

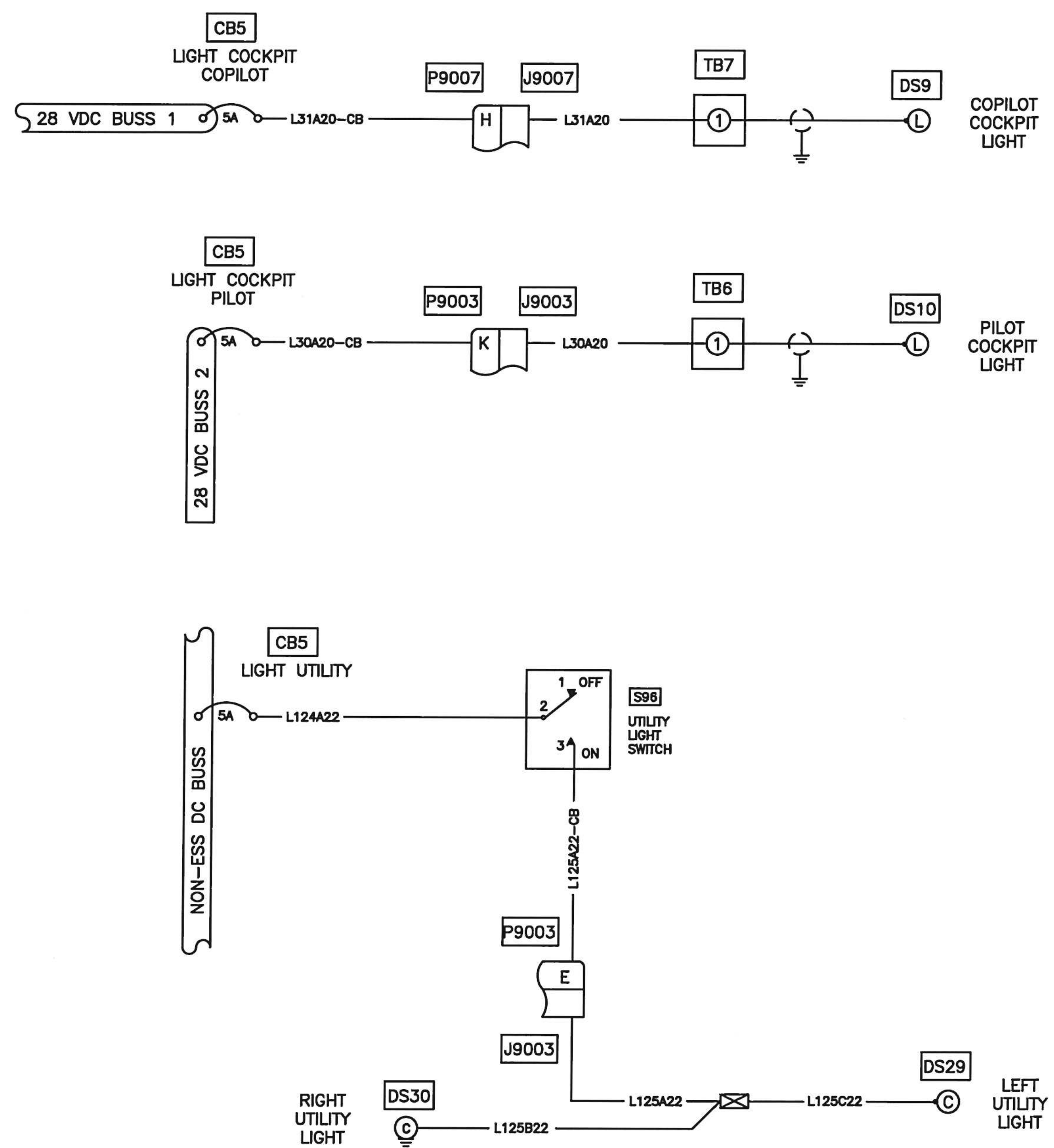

Figure 98-42S. COCKPIT AND UTILITY LIGHTS

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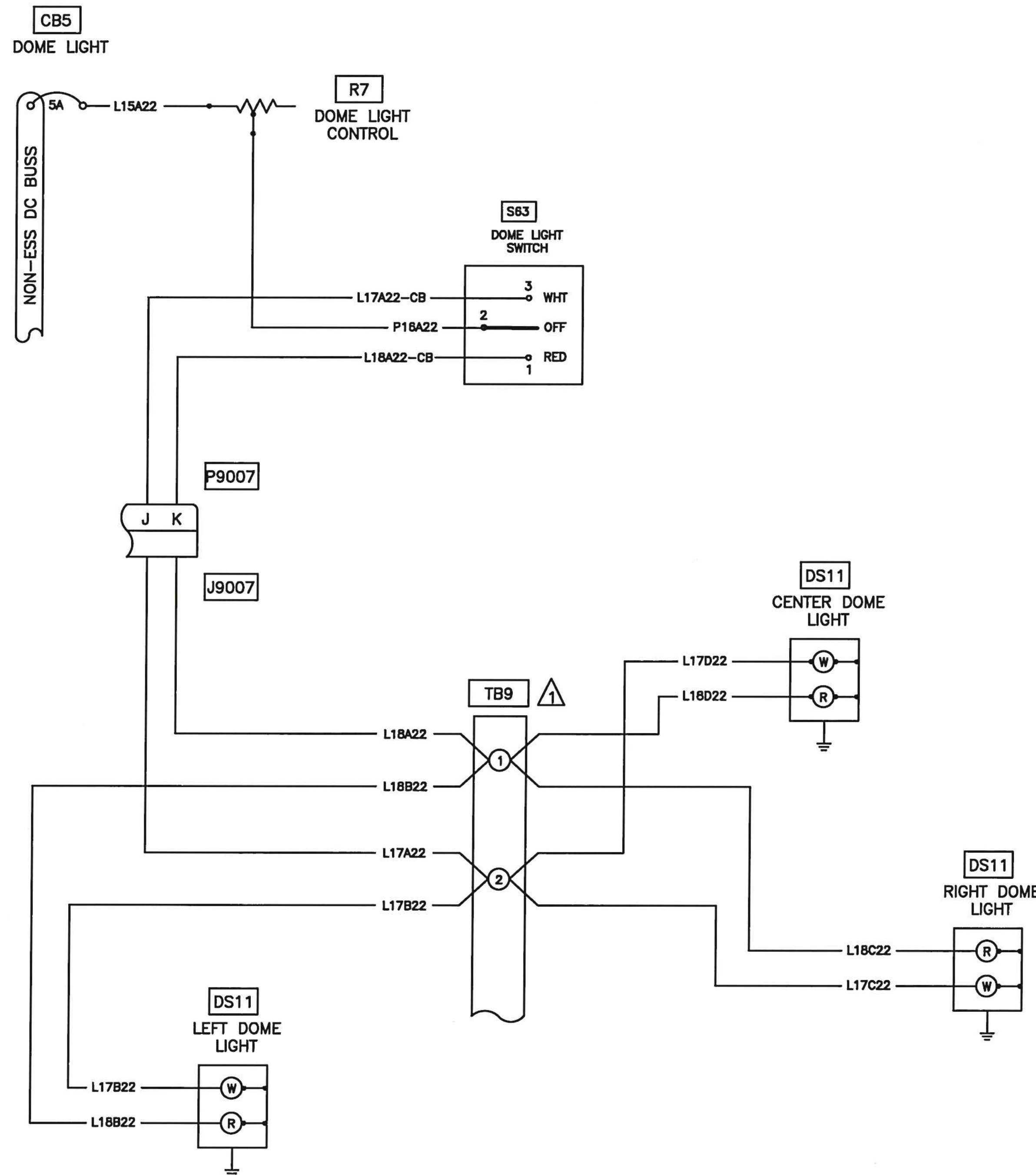
2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD, HAWKESBURY, ONTARIO, CANADA	
RD	RD		
CHECKED	APPROVED	DRAWING NO. D212-725-2	REV. B SHEET 36 OF 57
RD	KB		
DATE		TITLE	SCALE
07.01.30		FIGURE 98-42S	NTS



NOTES:

⚠1 REFER TO COMPONENT REPLACEMENT

Figure 98–43S. DOME LIGHTS

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2020.04.20

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CHECKED	APPROVED	DRAWING NO.	REV. B
RD	KB	D212–725–2	SHEET 37 OF 57
DATE		TITLE	SCALE
07.01.30		FIGURE 98–43S	NTS

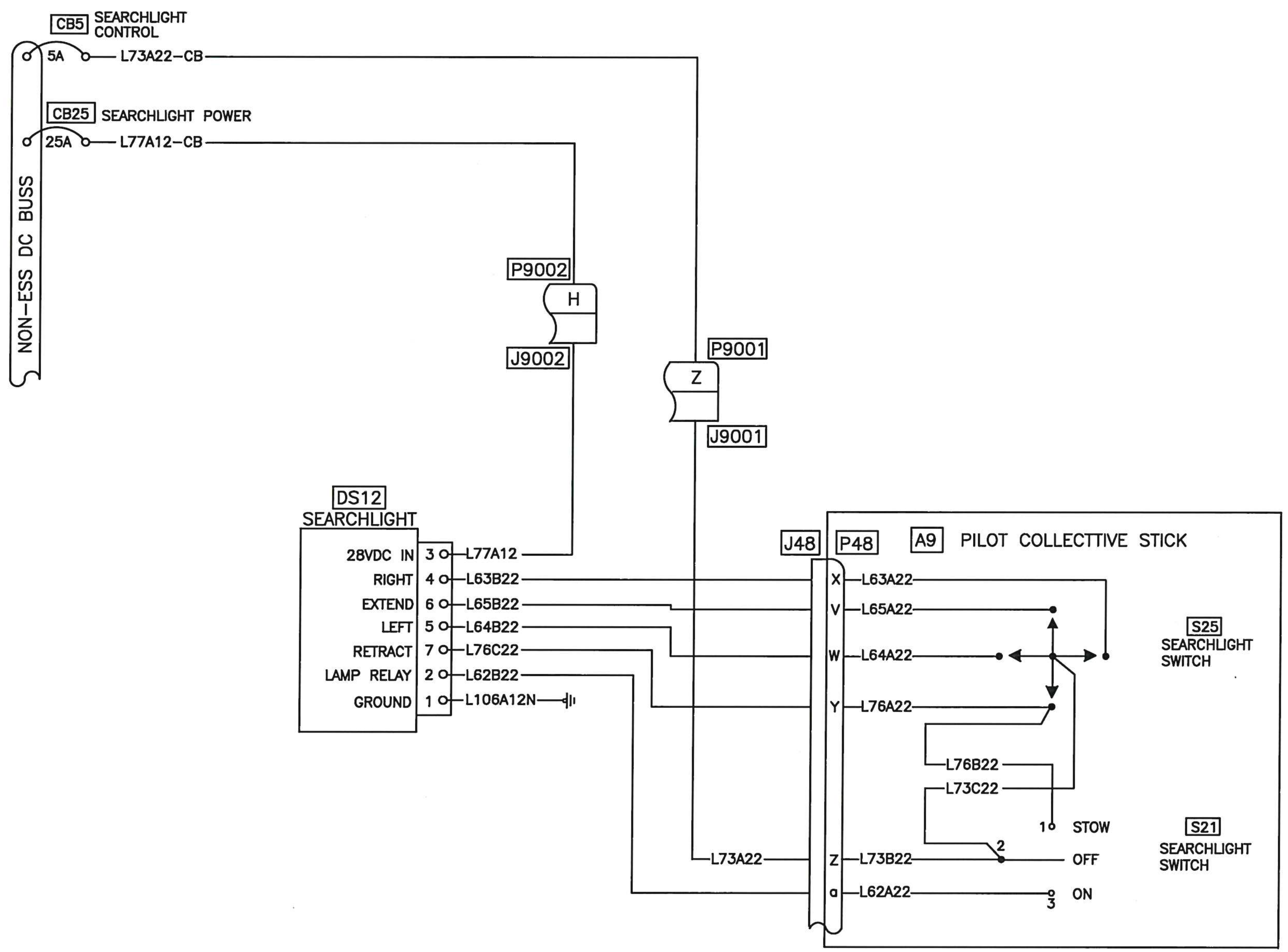

Figure 98-44S. SEARCHLIGHT

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2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
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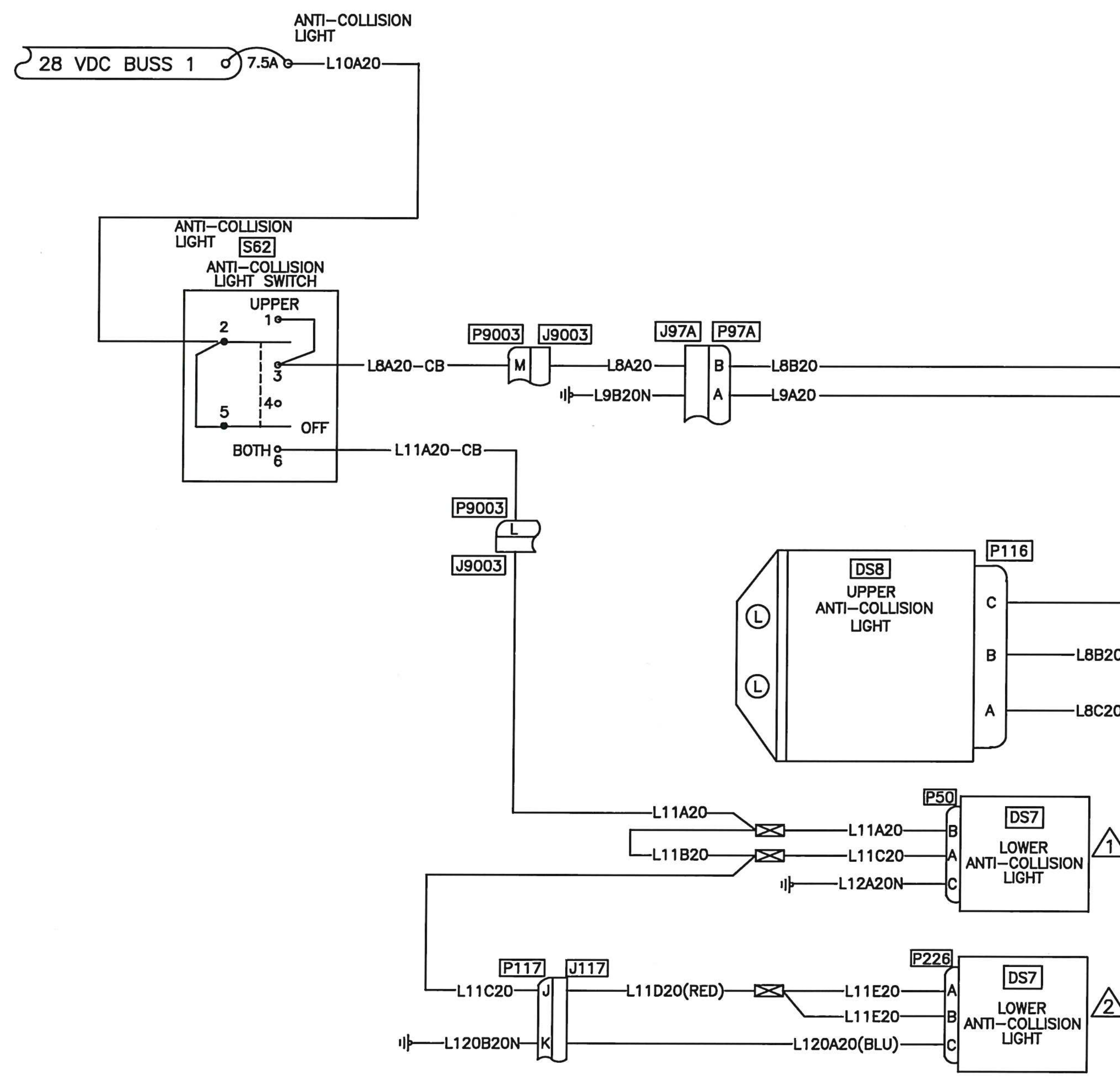
RD	KB	
DATE		TITLE FIGURE 98-44S SCALE NTS
07.01.30		



NOTES:

1. LOCATED UNDER CABIN FOR NORMAL INSTALLATION
2. STOWED EXCEPT WHEN FLOATS ARE INSTALLED. LIGHT IS RELOCATED TO TAIL BOOM USING REVISED WIRING SHOWN.

Figure 98–45S. ANTI–COLLISION LIGHTS

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2020.04.20

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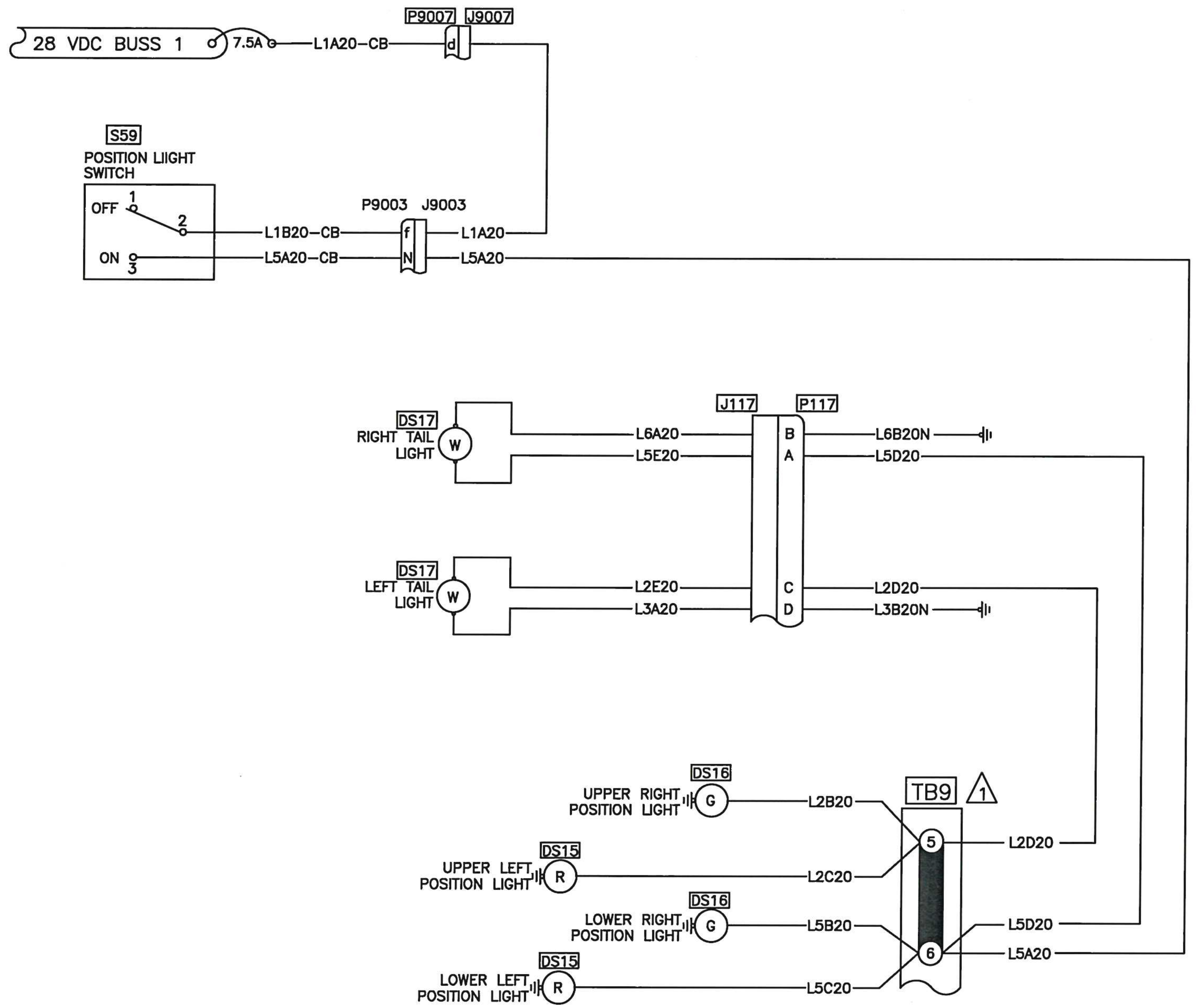
CHECKED	APPROVED	DRAWING NO. D212–725–2	REV. B SHEET 39 OF 57
RD	KB		
DATE 07.01.30		TITLE FIGURE 98–45S	SCALE NTS



NOTES:

1 REFER TO COMPONENT REPLACEMENT

Figure 98–46S. POSITION LIGHTS

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2020.04.20

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RD	RD	
CHECKED	APPROVED	DRAWING NO. — REV. B
RD	KB	D212–725–2 — SHEET 40 OF 57
DATE		TITLE — SCALE
07.01.30		FIGURE 98–46S — NTS

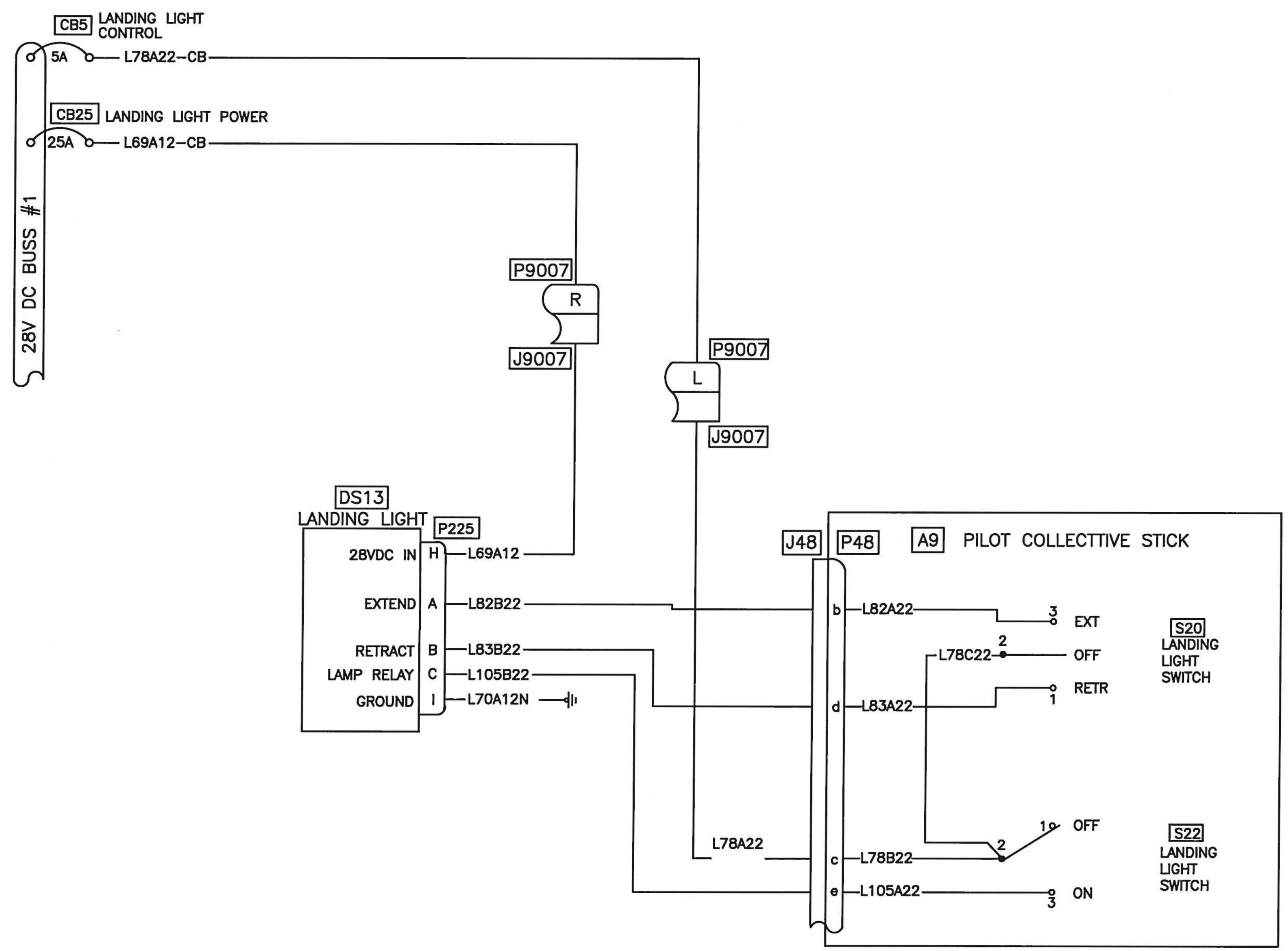

Figure 98-47S. LANDING LIGHTS

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
RD	RD	
CHECKED	APPROVED	DRAWING NO. D212-725-2 REV. B SHEET 41 OF 57
RD	KB	
DATE		TITLE FIGURE 98-47S SCALE NTS
07.01.30		

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2020.09.20

NOTES:

1 REFER TO MASTER CAUTION LIGHTS

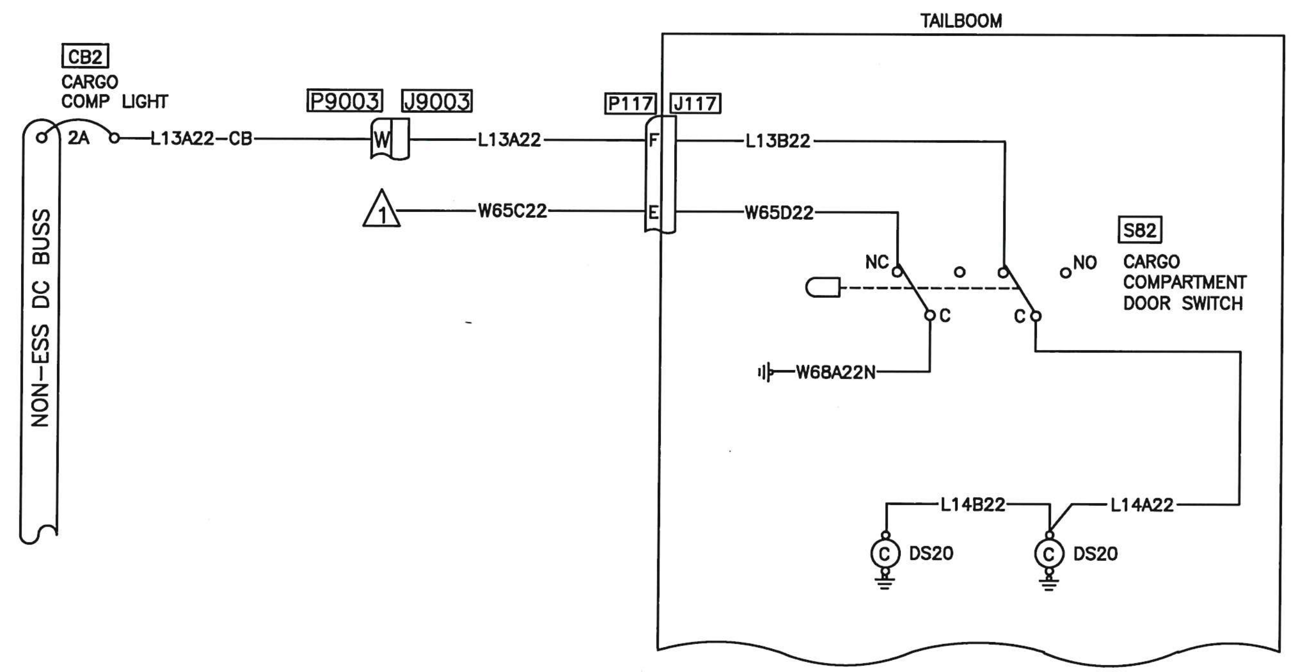

Figure 98–48S. CARGO COMPARTMENT LIGHTS

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2020.04.20

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RD	KB	D212–725–2 SHEET 42 OF 57
DATE		TITLE SCALE
07.05.01		FIGURE 98–48S NTS

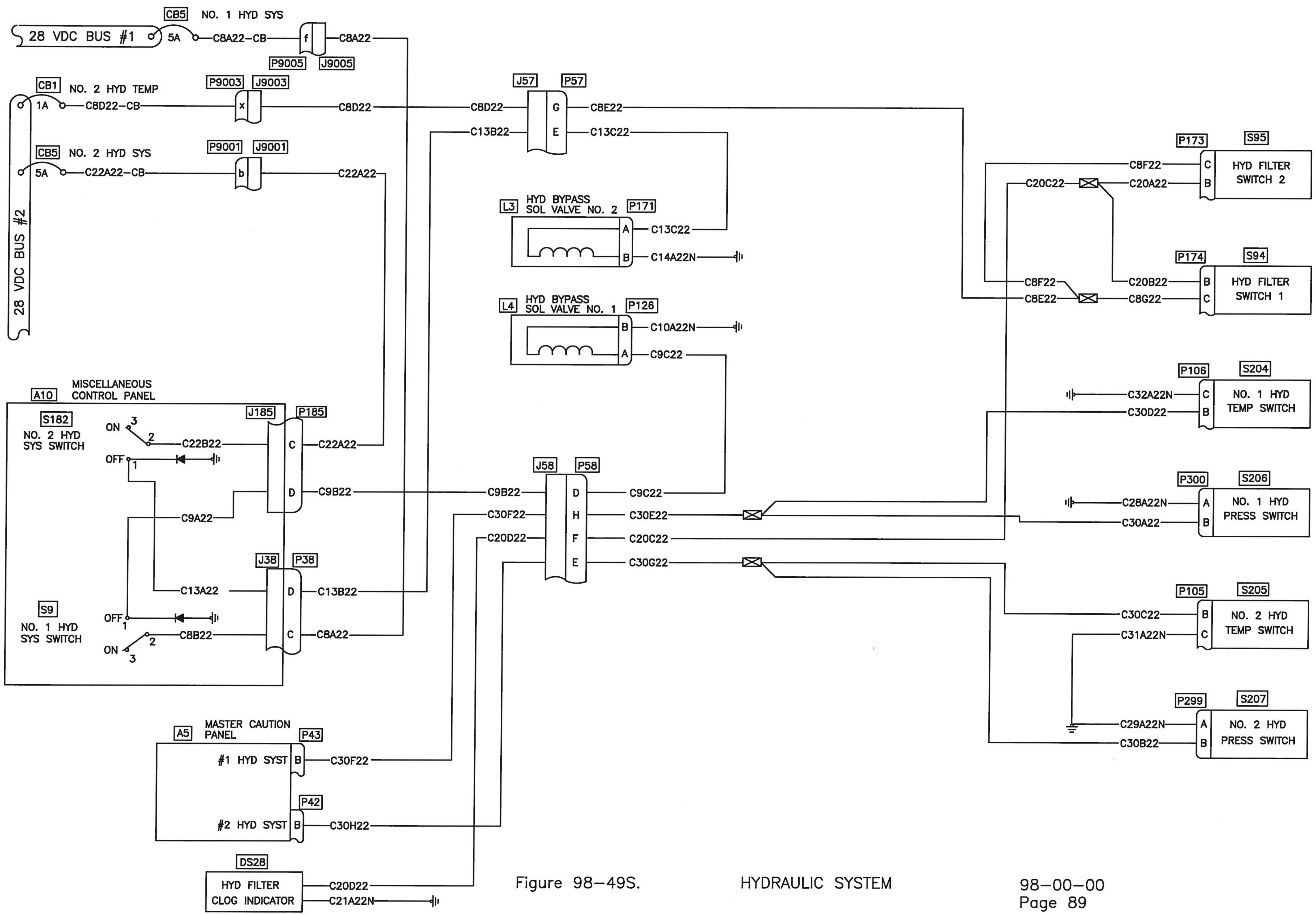

Figure 98–49S. HYDRAULIC SYSTEM

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Page 89

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2020.04.20

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RD	RD		
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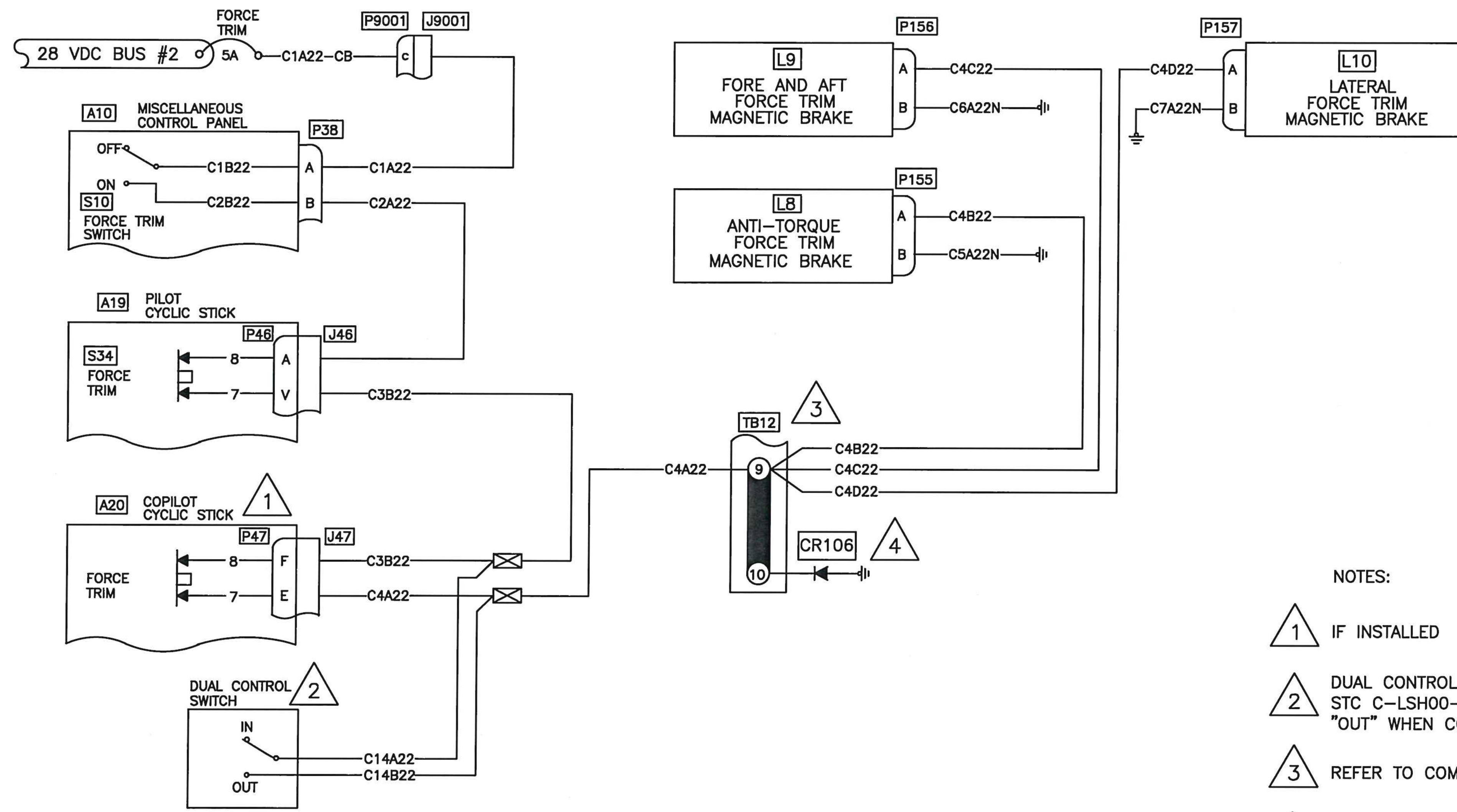
RD	KB	D212–725–2	SHEET 43 OF 57
DATE		TITLE	SCALE
07.05.01		FIGURE 98–49S	NTS



NOTES:

1. IF INSTALLED
2. DUAL CONTROL SWITCH INSTALLED PER STC C–LSH00–716/D. SELECT SWITCH TO "OUT" WHEN COPILOTS CYCLIC REMOVED.
3. REFER TO COMPONENT REPLACEMENT
4. USED FOR TRANSIENT SUPPRESSION

Figure 98–54S. FORCE TRIM

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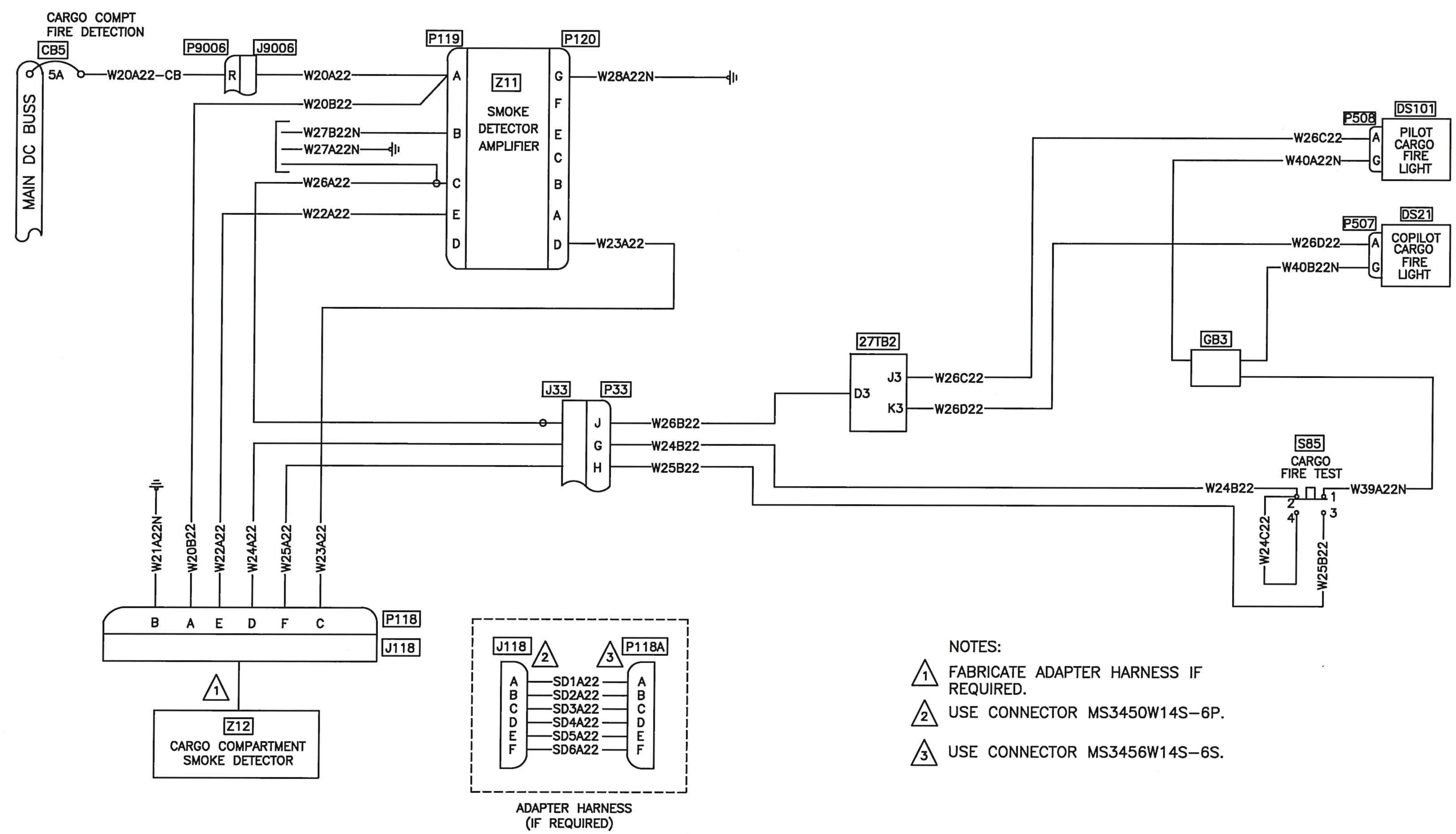
RD	KB	D212–725–2	SHEET 44 OF 57
DATE		TITLE	SCALE
07.05.01		FIGURE 98–54S	NTS



NOTES:

1. FABRICATE ADAPTER HARNESS IF REQUIRED.
2. USE CONNECTOR MS3450W14S–6P.
3. USE CONNECTOR MS3456W14S–6S.

Figure 98–55S. CARGO FIRE DETECTION

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2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
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RD	KB	
DATE		TITLE FIGURE 98–55S SCALE NTS
07.05.01		

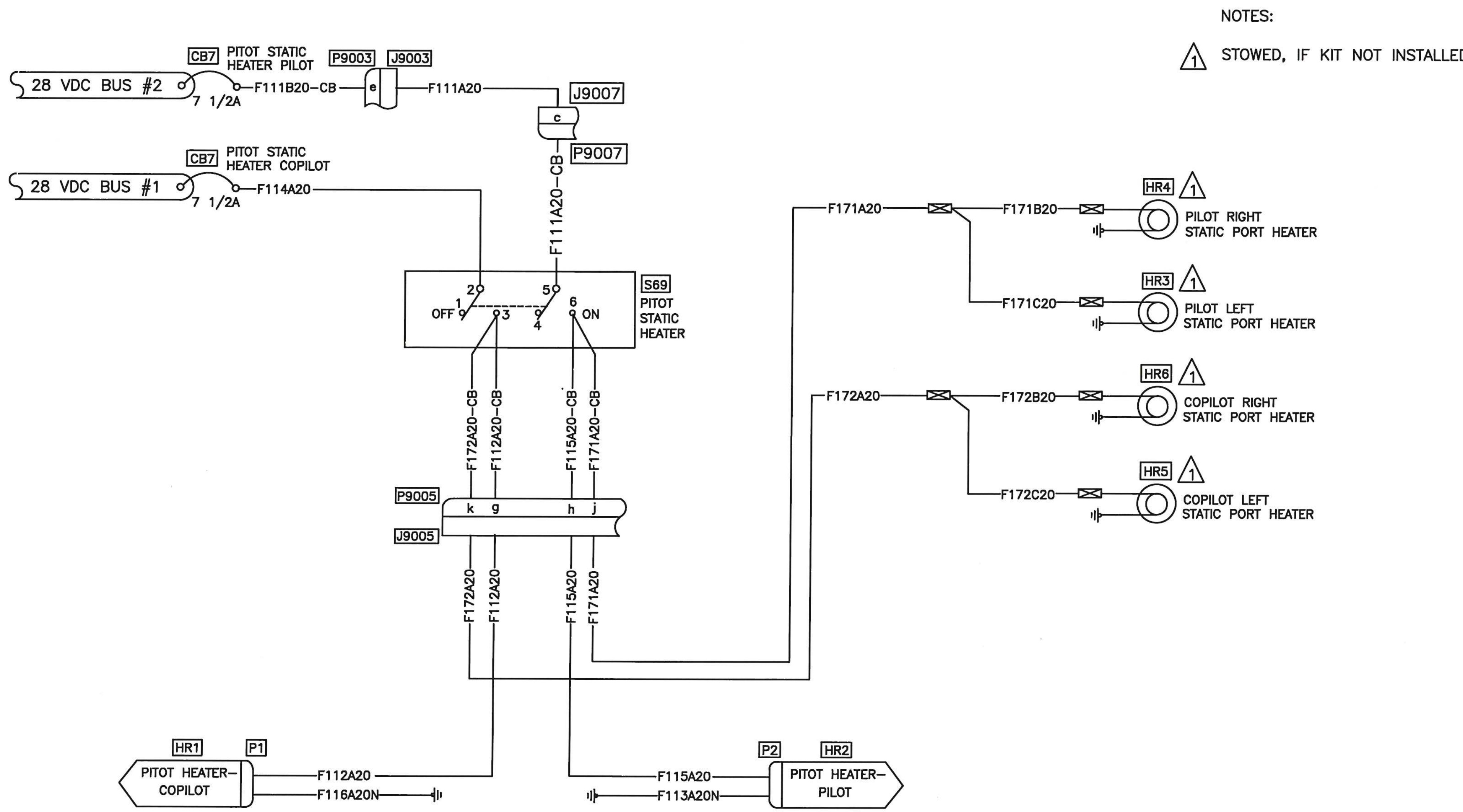

Figure 98–56S. PITOT STATIC HEATERS

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2020.04.20

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RD			
DATE 07.01.30		TITLE FIGURE 98–56S	SCALE NTS

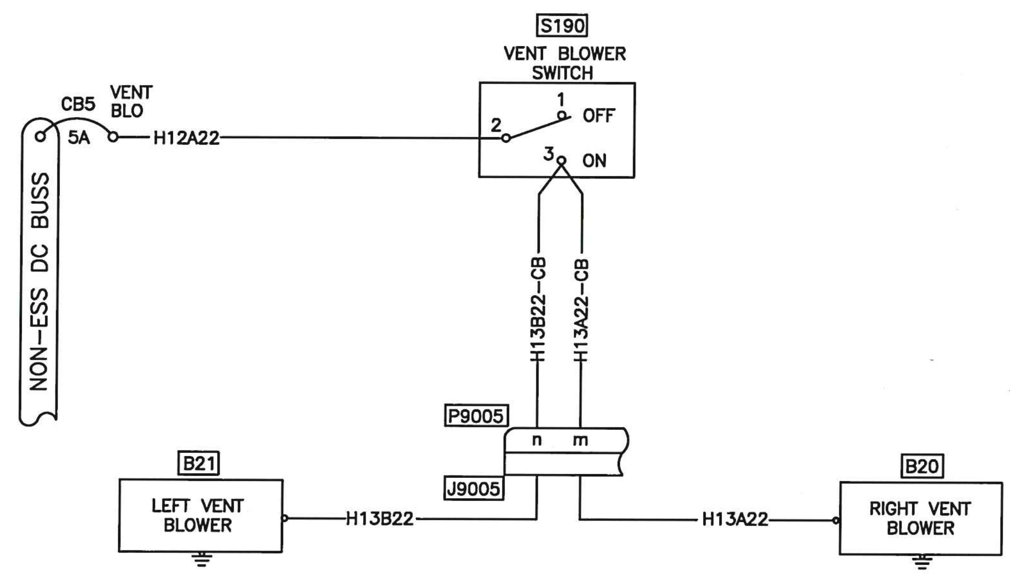

Figure 98–57S. VENT BLOWERS

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2020.04.20

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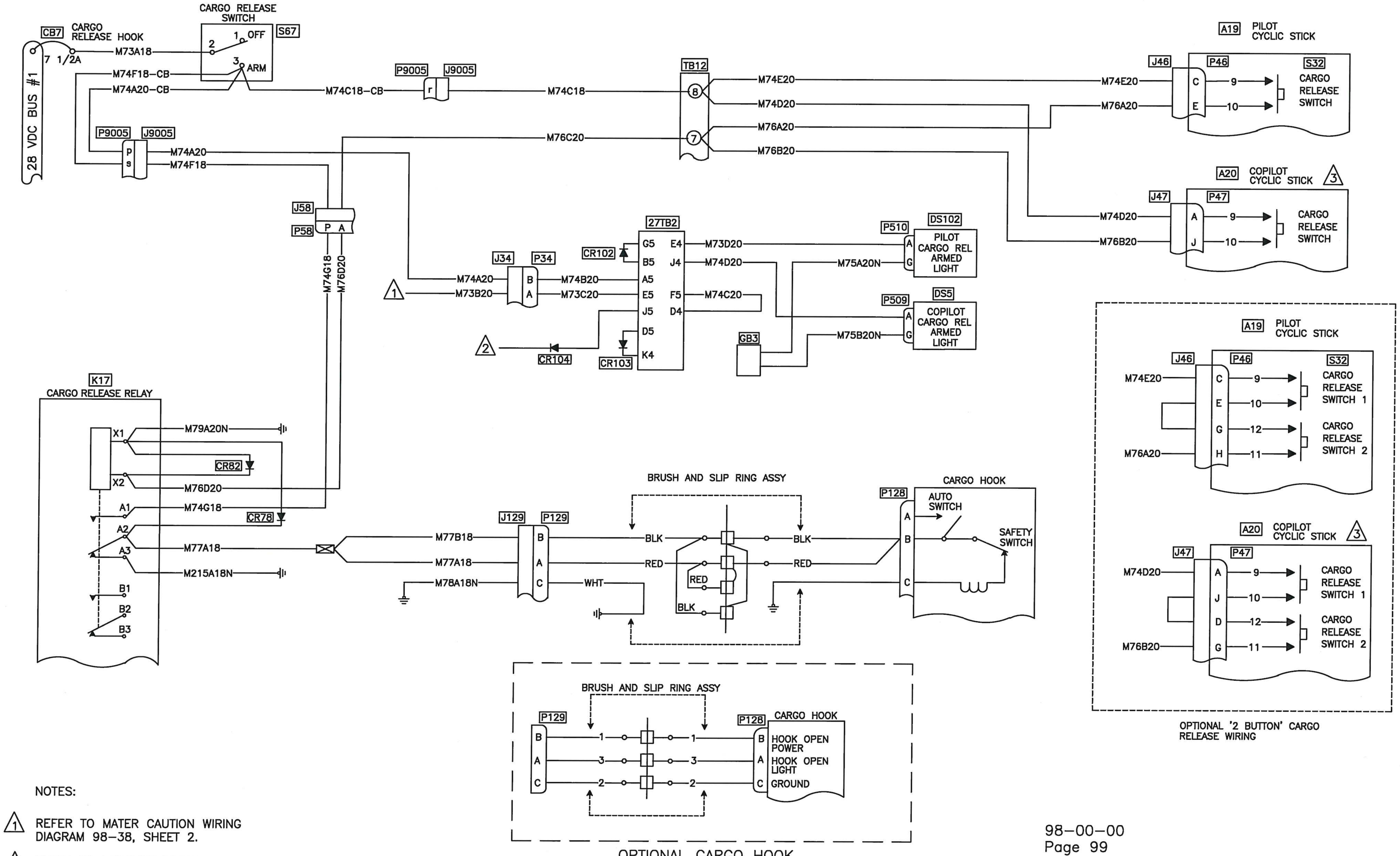
RD	KB	
DATE		TITLE FIGURE 98–57S SCALE NTS
07.01.30		



NOTES:

1. REFER TO MATER CAUTION WIRING DIAGRAM 98–38, SHEET 2.
2. REFER TO LONGLINE/HELITORCH WIRING DIAGRAM
3. IF COPILOT CYCLIC INSTALLED.

Figure 98–59S. CARGO RELEASE

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DESIGN RD	DRAWN BY RD	DART	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
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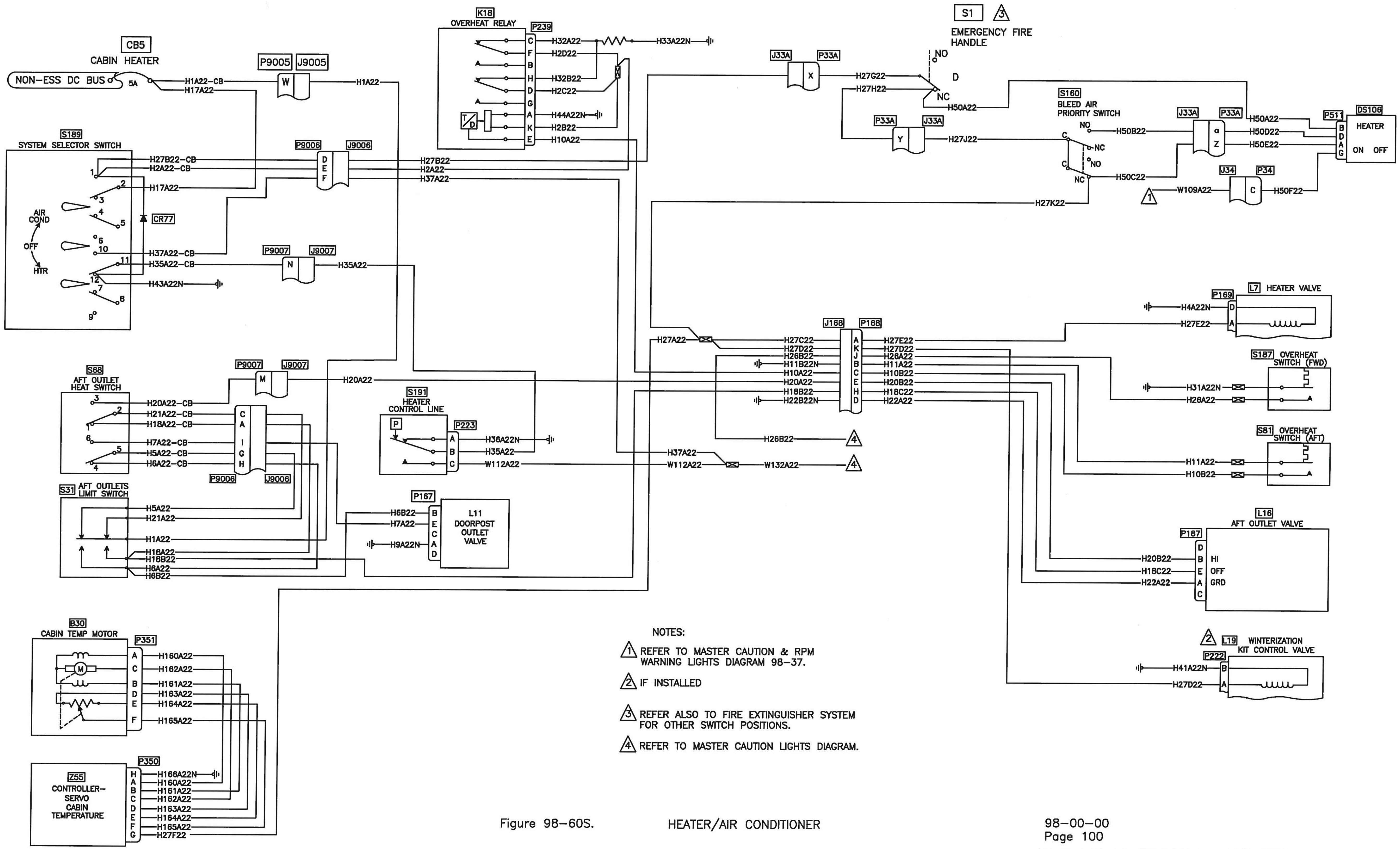
DATE 07.05.01		TITLE FIGURE 98–59S	SCALE NTS



NOTES:

1. REFER TO MASTER CAUTION & RPM WARNING LIGHTS DIAGRAM 98-37.
2. IF INSTALLED
3. REFER ALSO TO FIRE EXTINGUISHER SYSTEM FOR OTHER SWITCH POSITIONS.
4. REFER TO MASTER CAUTION LIGHTS DIAGRAM.

Figure 98-60S. HEATER/AIR CONDITIONER

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Page 100

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CHECKED RD	APPROVED KB	DRAWING NO. D212-725-2	REV. C SHEET 49 OF 57
DATE 07.05.01		TITLE FIGURE 98-60S	SCALE NTS

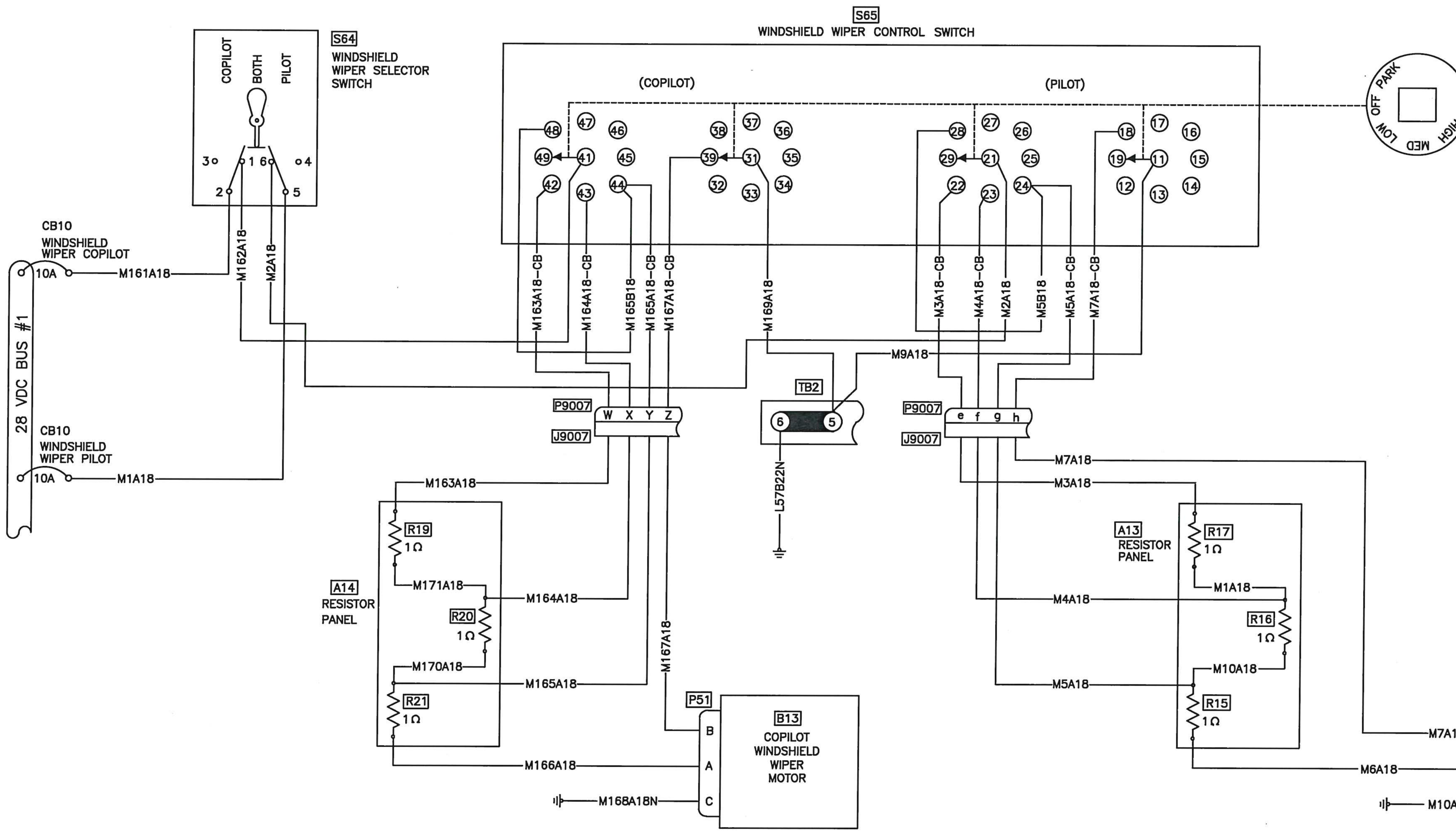

Figure 98–61S. WINDSHIELD WIPERS

98–00–00
Page 101

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2020.04.20

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RD	RD		
CHECKED	APPROVED	DRAWING NO.	REV. B
RD	KB	D212–725–2	SHEET 50 OF 57
DATE		TITLE	SCALE
07.01.30		FIGURE 98–61S	NTS

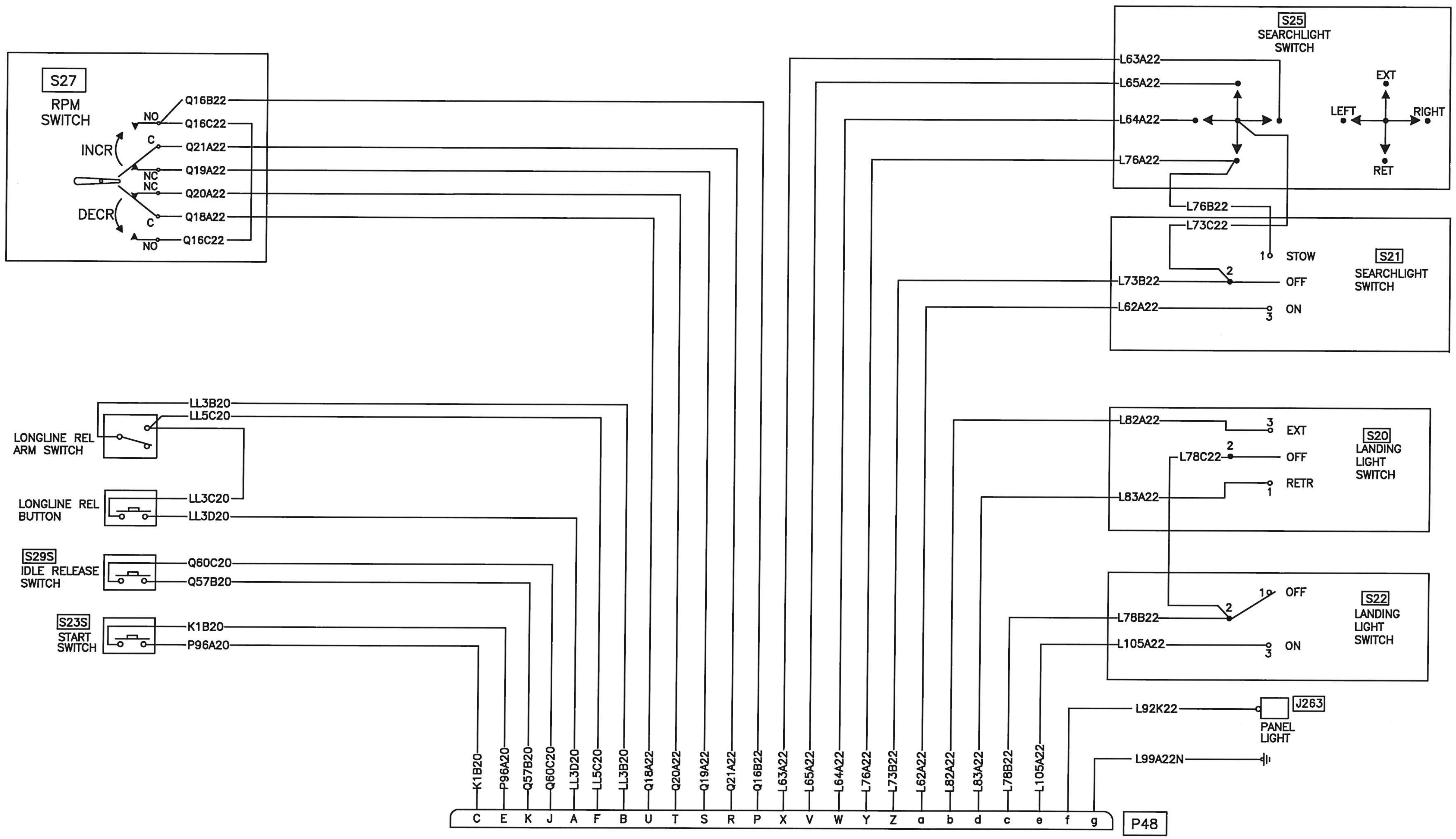

Fig. 98–62S PILOT COLLECTIVE STICK WIRING

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2020.04.20

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RD	RD		
CHECKED	APPROVED	DRAWING NO.	REV. C
RD	KB	D212–725–2	SHEET 51 OF 57
DATE		TITLE	SCALE
07.05.01		FIGURE 98–62S	NTS

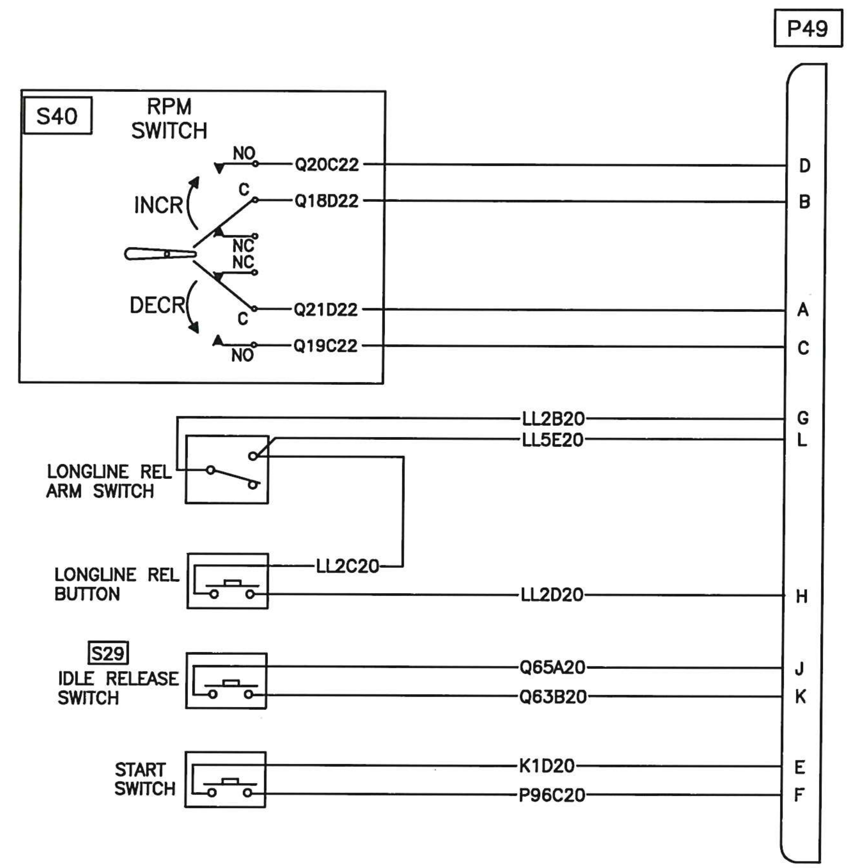

Fig. 98–63S COPILOT COLLECTIVE STICK WIRING (IF INSTALLED)

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2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
RD	RD	
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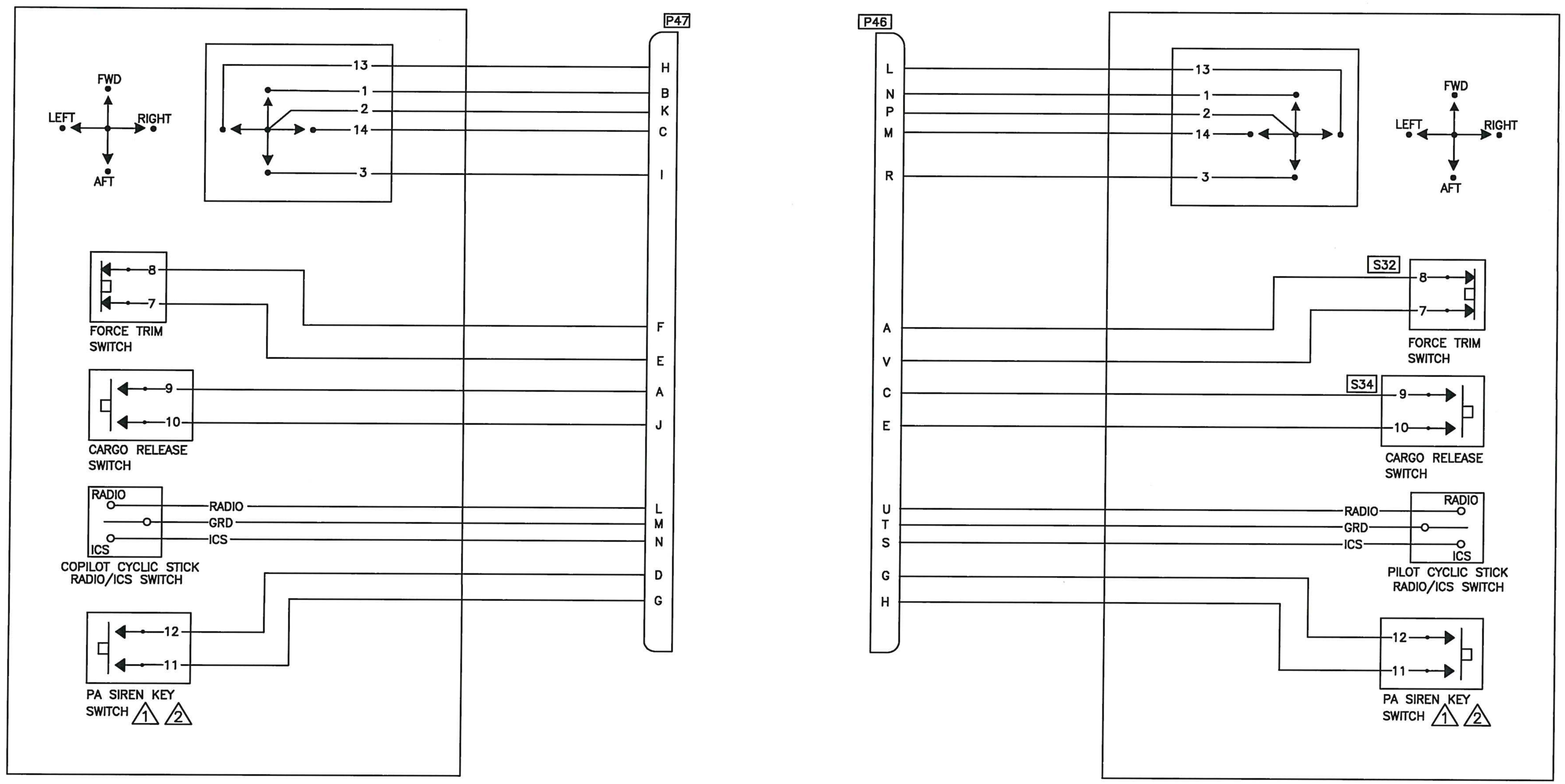
RD	KB	
DATE 07.01.30		TITLE FIGURE 98–63S SCALE NTS



COPILOT's CYCLIC STICK

PILOT's CYCLIC STICK

NOTES:

1. IF INSTALLED

2. MAY ALSO BE USED AS SECOND CARGO RELEASE SWITCH. PA SIREN KEY IS THEN MOVED TO 'LEFT' ON CHINA HAT SWITCH.

Fig. 98–64S PILOT's & COPILOT's CYCLIC STICK WIRING DIAGRAM

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2020.04.20

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DATE 07.05.01		TITLE FIGURE 98–64S	SCALE NTS

NOTES:

1. REFER TO MASTER CAUTION DIAGRAM 98–38, SHEET 5.
2. WIRING PROVISIONS ONLY

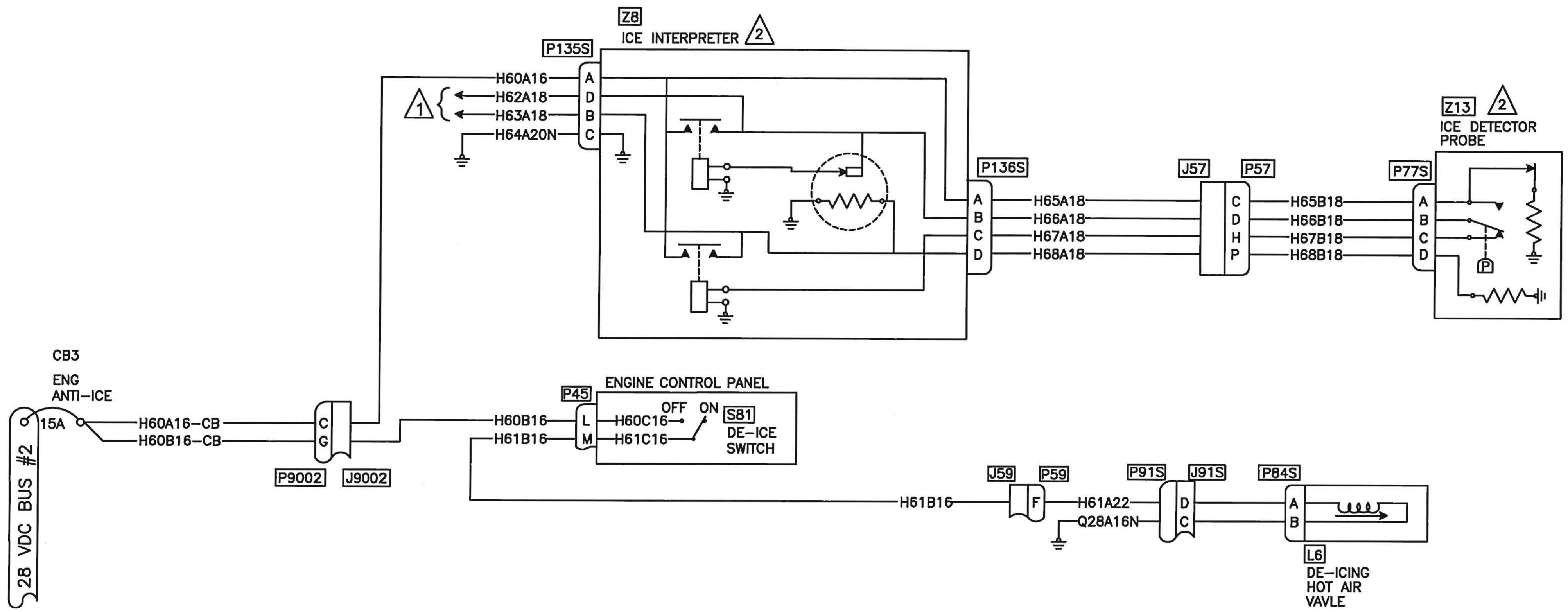

Figure 98–65S. ENGINE ANTI–ICING

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ECN 20-105
2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
RD	RD		
CHECKED	APPROVED	DRAWING NO.	REV. B
RD	KB	D212–725–2	SHEET 54 OF 57
DATE		TITLE	SCALE
07.01.30		FIGURE 98–65S	NTS

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RD	RD		
CHECKED	APPROVED	DRAWING NO.	REV. C
RD	KB	D212-725-2	SHEET 55 OF 57
DATE		TITLE	SCALE
07.05.01		FIGURE 98-66S	NTS

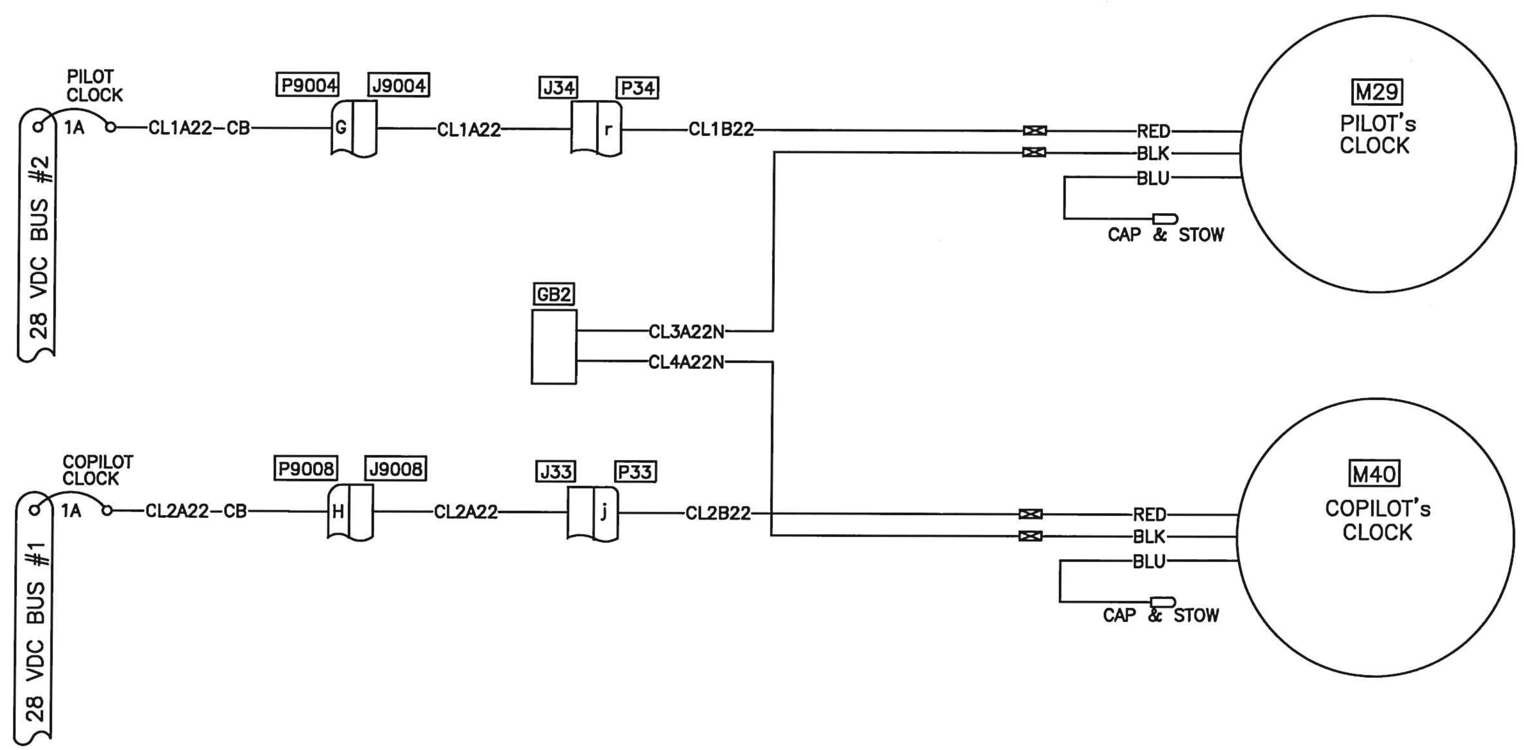

Figure 98–67S. PILOT AND COPILOT CLOCKS

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2020.09.20

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RD	RD		
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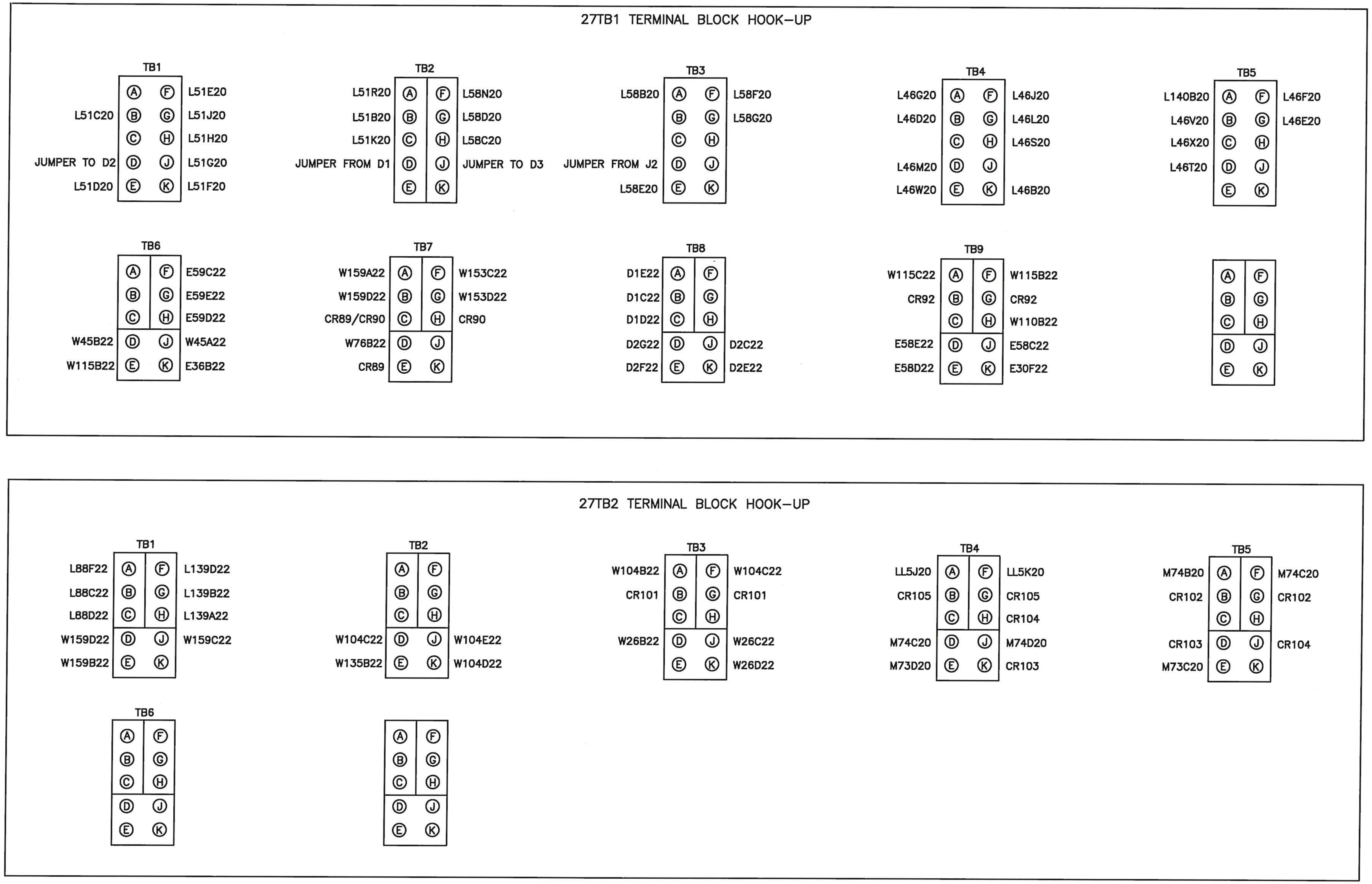
RD	KB	D212–725–2	SHEET 56 OF 57
DATE		TITLE	SCALE
07.01.30		FIGURE 98–67S	NTS



NOTES:

1

Figure 98-68S. TERMINAL BLOCK HOOKUP

ECN20-105
2020.04.20

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
RD	RD		
CHECKED	APPROVED	DRAWING NO. D212-725-2	REV. C SHEET 57 OF 57
RD	KB		
DATE 07.05.01		TITLE FIGURE 98-68S	SCALE NTS