



**2004
CLARK COUNTY
ELECTRICAL WIRING
MANUAL**

HDX

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BOARD # 1 "BLUE"						
CONN	PIN	CIRCUIT CODE	WIRE COLOR	CIRCUIT DESCRIPTION	FUSE	RELAY
J1 BUZZER POWER				SHUNT 52004092		
	1	BATT+	N/A	BATTERY POWER		
	2	SA33	N/A	BUZZER+	FUSE #24 (5 AMP)	
	3	IGN+	N/A	IGNITION POWER		
J2 STEP LIGHT POWER				SHUNT 52004092		
	1	LM168	N/A	PARKING LIGHTS		
	2	-	N/A	TO STEP LIGHTS	FUSE #4 (10 AMP)	RELAY #2
	3	IGN+	N/A	IGNITION POWER		
J3 TO MAIN HARNESS				CONN P/N AMP# 173851-1		
	1	LR170A	BLUE	BACK-UP LIGHT FEED		
	2	LS38	PURPLE	STROBE LIGHT		
	3	SA30	TAN	BUZZER-		
	4	SA29	BLUE	REAR DOOR BUZZER		
	5	SA31	GRAY	SIDE DOOR BUZZER (GROUND)		
	6					
	7	FD34	GRAY	LEFT DEFROSTER FAN LOW		
	8	LD21	BLACK	FRONT INTERIOR (DOME) LIGHTS		
	9	GND	WHITE	GROUND		
	10	SA33	PINK	BUZZER+		
	11	F317	ORANGE	HATCH FAN		
	12	DS27	PINK	IDENTIFICATION SIGN		
J4 TO MAIN HARNESS (TAIL LIGHTS)				CONN P/N AMP# 173850-1		
	1	LR13	BLUE	RIGHT BACK-UP LIGHT		
	2	LR14	BLUE/WHITE	LEFT BACK-UP LIGHT		
	3	LB15	RED	RIGHT BRAKE LIGHT		
	4	LT10	YELLOW	LEFT TURN LIGHT		
	5	LT9	GREEN	RIGHT TURN LIGHT		
	6	LM12	BROWN/WHITE	LEFT TAIL LIGHT		
	7	LM11	BROWN	RIGHT TAIL LIGHT		
	8	LB16	RED/WHITE	LEFT BRAKE LIGHT		
J5 INPUT FROM CHASSIS TO BOARD #1				CONN P/N AMP# 173850-1		
	1	LM169	TAN	TAIL LIGHTS	FUSE #10 (15 AMP)	RELAY #8
	2	LB172	RED	BRAKE LIGHTS		
	3	LR170	BLUE	BACK-UP LIGHTS		
	4	SA32	YELLOW	STARTER INTERLOCK		
	5	LP70A	BLACK	PANEL LIGHTS FROM CHASSIS		
	6	KEY SW	BLACK	KEY SWITCH		RELAY #5
	7	LT175	GREEN	RIGHT TURN LIGHTS		
	8	LT174	YELLOW	LEFT TURN LIGHTS		
J6 TO MAIN HARNESS				CONN P/N AMP# 173851-1		
	1	LM40	BROWN	TO MARKER LIGHTS		
	2	LM17	BROWN	TO CLUSTER LIGHTS		
	3	MH468	ORANGE	TO HEATED MIRRORS		
	4	MH469	BLUE	TO HEATED MIRRORS		
	5	SA32	YELLOW	STARTER INTERLOCK		
	6	DF426	GREEN	TO FRONT DOOR SOLENOID		
	7	LD20	TAN	DRIVER'S DOME LIGHT		
	8	LD19	BLACK	REAR INTERIOR (DOME) LIGHTS		

B

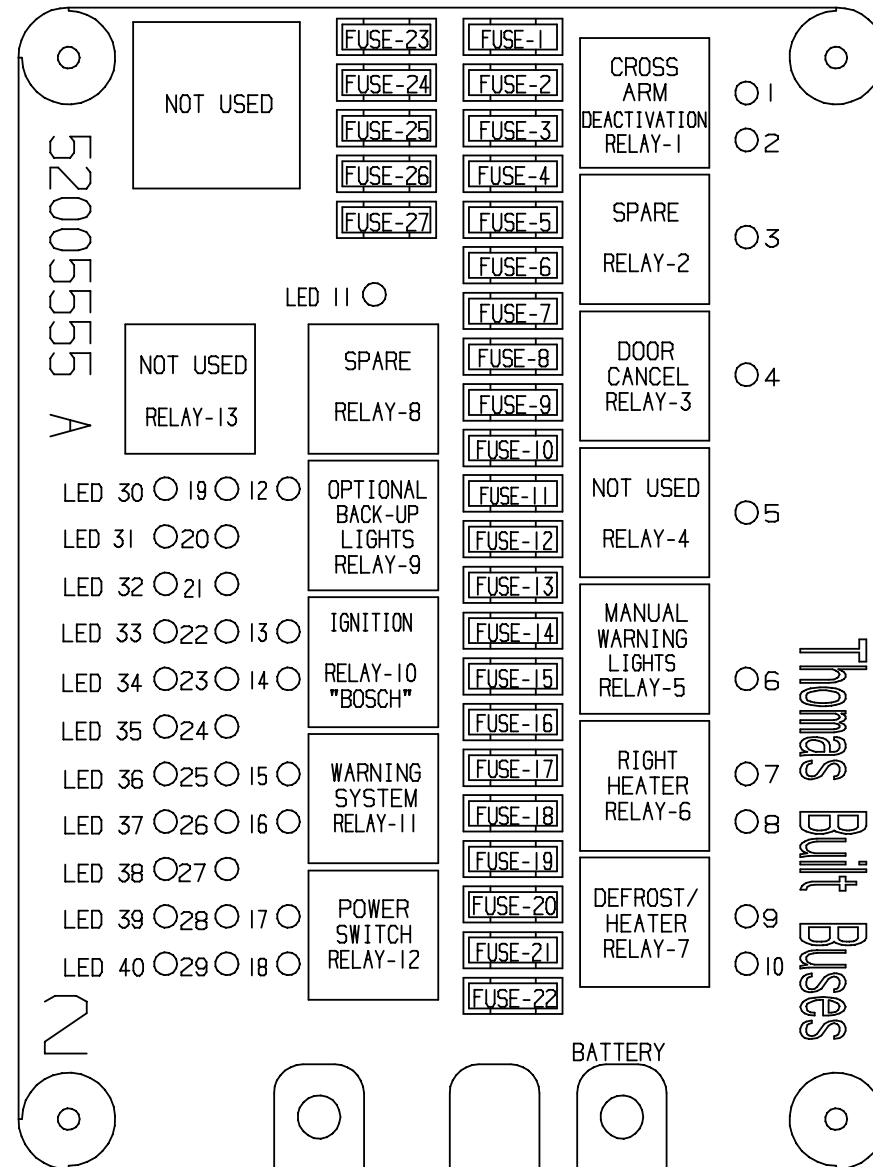
A

BOARD # 1 "BLUE"

CONN	PIN	CIRCUIT CODE	WIRE COLOR	CIRCUIT DESCRIPTION	FUSE	RELAY
	9	FD35	TAN	RIGHT DEFROSTER FAN LOW		
	10	FD37	BLUE	RIGHT DEFROSTER FAN HIGH		
	11	FD36	BLACK	LEFT DEFROSTER FAN HIGH		
	12	AV599	PINK	TO VIDEO L.E.D.		
J7 TO FRONT HEATER				CONN P/N AMP# 171898-1		
	1	L-H-L	GRAY	LEFT HEATER LOW		
	2	D/H-L	BROWN	DEFROST/HEATER LOW		
	3	D-H-H	TAN	DRIVER'S HEATER HIGH		
	4	D/H-H	YELLOW	DEFROST/HEATER HIGH	FUSE #18 (20 AMP)	RELAY #11
	5	L-H-H	YELLOW	LEFT HEATER HIGH	FUSE #22 (20 AMP)	RELAY #12
	6	D-H-L	PURPLE	DRIVER'S HEATER LOW		
J8 FRONT PASSENGER HEATER LOW				CONN P/N AMP# 172128-1		
	1	-	RED/WHITE	FRONT PASSENGER HEATER LOW		
J9 REAR PASSENGER HEATER LOW				CONN P/N AMP# 172128-1		
	1	--	RED/WHITE	REAR PASSENGER HEATER LOW		
J10 DEFROSTER FAN SWITCH				CONN P/N AMP# 173850-1		
	1	FD35	TAN	RIGHT DEFROSTER FAN LOW		
	2	FD37	BLUE	RIGHT DEFROSTER FAN HIGH		
	3	FD34	GRAY	LEFT DEFROSTER FAN LOW		
	4	SW2+	BLUE	RIGHT FAN POWER	FUSE #16 (15 AMP)	
	5	SW1+	BLUE	LEFT FAN POWER	FUSE #17 (15 AMP)	
	6	FD36	BLACK	LEFT DEFROSTER FAN HIGH		
	7	GND	WHITE	GROUND		
	8	LP70	ORANGE	TO PANEL LIGHTS		

	52004778 C
PRINTED CIRCUIT BOARD ASSEMBLY 1	

FUSE NO.	RATING	CIRCUIT DESCRIPTION
1	10A	32-12 SPARE (BATT)
2	5A	CROSS ARM (BATT+)
3	10A	32-11 SPARE (IGN+)
4	10A	17-1 SPARE (SW+)
5	10A	15-2 LIGHT MONITOR (IGN+)
6	7A	CROSS ARM (IGN+)
7	10A	1-2 STOP SIGN (IGN+)
8	20A	7-2 SPARE (SW+)
9	15A	4-3 DEFROST HEATER (SW+)
10	15A	4-7 RIGHT HEATER (SW+)
11	20A	7-1 SPARE (SW+)
12	20A	7-3 SPARE (BATT+)
13	10A	BACK-UP LIGHTS (BATT+)
14	10A	WARNING LIGHT (IGN+)
15	10A	20-1 SPARE (BATT+)
16	10A	21-3 RADIO (BATT+)
17	20A	WARNING LIGHT (BATT+)
18	20A	RIGHT HEATER (BATT+)
19	20A	7-4 SPARE (IGN+)
20	20A	DEFROST HEATER (BATT+)
21	20A	7-5 SPARE (IGN+)
22	20A	7-6 SPARE (BATT+)
23	10A	12-1 SANDERS (IGN+)
24	10A	21-2 RADIO (SW+)
25	10A	11-1 SPARE (IGN+)
26	10A	18-1 SPARE (SW+)
27	10A	19-1 COMP. LIGHTS (IGN+)



LED NO.	COLOR	RELAY NO.
1	AMBER	1
2	GREEN	1
3		
4		
5	AMBER	DOOR OPEN
6	AMBER	5
7	AMBER	6
8	GREEN	6
9	AMBER	7
10	GREEN	7
11	GREEN	8
12		
13		
14		
15	AMBER	11
16	GREEN	11
17	AMBER	12
18		
19		

LED NO.	COLOR	CIRCUIT DESCRIPTION
20	GREEN	LOW DEFROST/HEATERS
21	GREEN	AMBER WARNING LIGHT
22	GREEN	AMBER WARNING LIGHT
23	AMBER	AMBER WARNING LIGHT
24		
25		
26	AMBER	RED WARNING LIGHT
27	GREEN	RED WARNING LIGHT
28	GREEN	RED WARNING LIGHT
29		
30		
31	GREEN	LOW STEP HEATER
32	GREEN	AMBER WARNING LIGHT
33	GREEN	AMBER WARNING LIGHT
34	AMBER	AMBER WARNING LIGHT
35		
36		
37	GREEN	RED WARNING LIGHT
38	AMBER	RED WARNING LIGHT
39	GREEN	RED WARNING LIGHT
40		

NOTE: GREEN LEDs CORRESPONDING TO RELAY INDICATE POWER ON CIRCUIT SIDE OF RELAY
 AMBER LEDs CORRESPONDING TO RELAY INDICATE POWER TO COIL

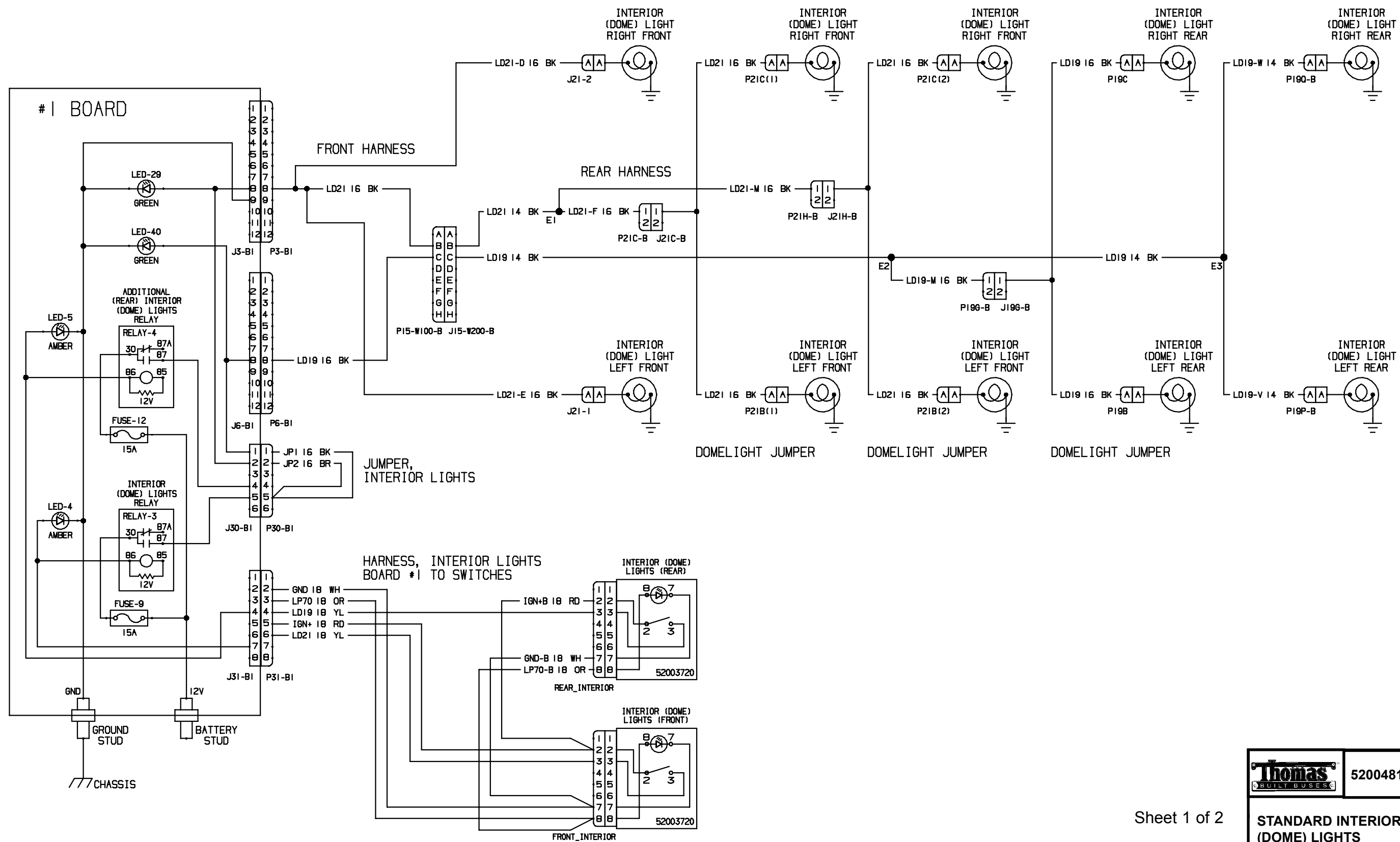
BOARD 2

- NOTE:
- 1) MATERIAL: LABEL SPECIFICATION PER 68001633.
 - 2) BLANK SIZE: 6.00 x 10.00.
 - 3) BACKGROUND COLOR: SAFETY WHITE.
 - 4) LETTER COLOR: SAFETY BLACK.
 - 5) ADHESIVE: BACK FACE.
 - 6) CAMERA READY: FROM "B" SIZE PRINT.
 - 7) LOCATION: INTERIOR USE.

	52005554 A
PC BOARD No. 2, LABEL (52005555)	

**MAIN BODY
SECTION**

**LIGHTS
SECTION**

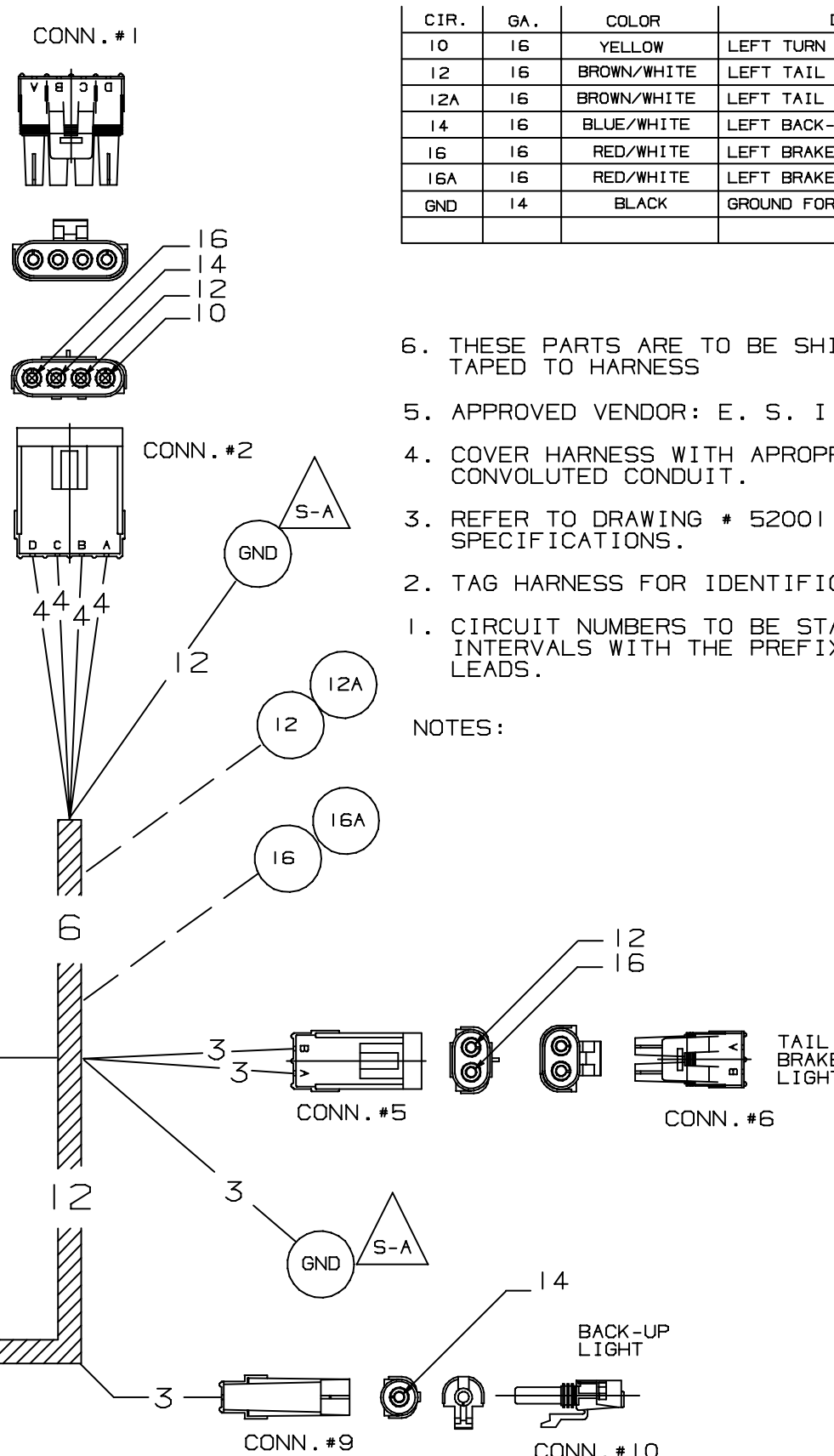


Thomas BULL BUSES	52004812 B
STANDARD INTERIOR (DOME) LIGHTS	

Sheet 1 of 2

CONNECTOR LIST

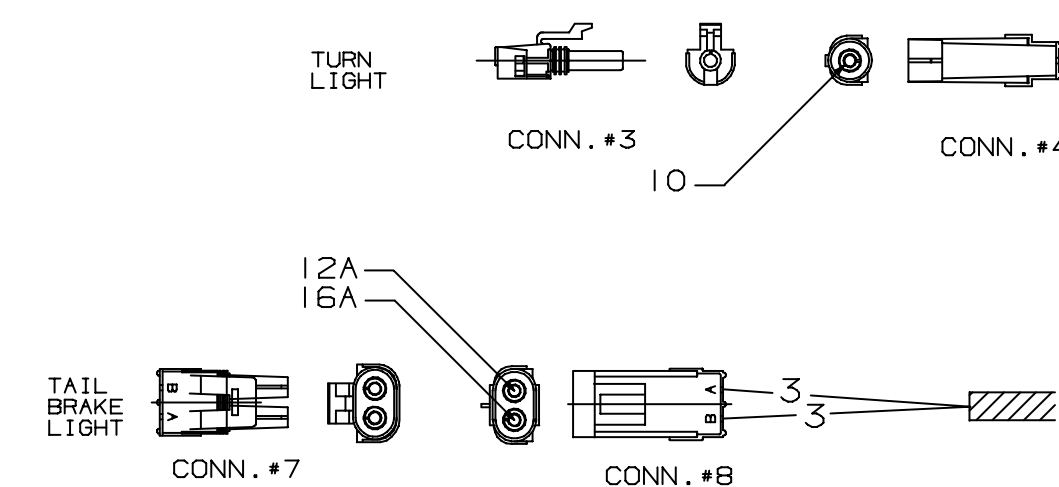
CONN	VENDOR	PART NO.	DESCRIPTION	QTY.
1	PACKARD	12015797	CONNECTOR	1
		.	.	.
		.	.	.
2	PACKARD	12010974	CONNECTOR	1
		12015193	CABLE SEAL	4
		12124582	TERMINAL-MALE RECEPTACLE, 14-16 AWG.	4
3	PACKARD	12015791	CONNECTOR	1
		12124580	TERMINAL-FEMALE SOCKET, 16-14 AWG (SEE NOTE 6)	1
		12015193	CABLE SEAL (SEE NOTE 6)	1
4	PACKARD	12010996	CONNECTOR	1
		12015193	CABLE SEAL	1
		12124582	TERMINAL-MALE RECEPTACLE, 14-16 AWG.	1
5	PACKARD	12010973	CONNECTOR	1
		12015193	CABLE SEAL	2
		12124582	TERMINAL-MALE RECEPTACLE, 14-16 AWG.	2
6	PACKARD	12015792	CONNECTOR	1
		12124580	TERMINAL-FEMALE SOCKET, 16-14 AWG (SEE NOTE 6)	2
		12015193	CABLE SEAL (SEE NOTE 6)	2
7	PACKARD	12015792	CONNECTOR	1
		12124580	TERMINAL-FEMALE SOCKET, 16-14 AWG (SEE NOTE 6)	2
		12015193	CABLE SEAL (SEE NOTE 6)	2
8	PACKARD	12010973	CONNECTOR	1
		12015193	CABLE SEAL	2
		12124582	TERMINAL-MALE RECEPTACLE, 14-16 AWG.	2
9	PACKARD	12010996	CONNECTOR	1
		12015193	CABLE SEAL	1
		12124582	TERMINAL-MALE RECEPTACLE, 14-16 AWG.	1
10	PACKARD	12015791	CONNECTOR	1
		12124580	TERMINAL-FEMALE SOCKET, 16-14 AWG (SEE NOTE 6)	1
		12015193	CABLE SEAL (SEE NOTE 6)	1



CIR.	GA.	COLOR	DESCRIPTION
10	16	YELLOW	LEFT TURN SIGNAL (REAR)
12	16	BROWN/WHITE	LEFT TAIL LIGHT
12A	16	BROWN/WHITE	LEFT TAIL LIGHT
14	16	BLUE/WHITE	LEFT BACK-UP LIGHT
16	16	RED/WHITE	LEFT BRAKE LIGHT
16A	16	RED/WHITE	LEFT BRAKE LIGHT
GND	14	BLACK	GROUND FOR DOOR LIGHTS

6. THESE PARTS ARE TO BE SHIPPED IN BAG TAPED TO HARNESS
5. APPROVED VENDOR: E. S. I.
4. COVER HARNESS WITH APROPRIATE SIZE CONVOLUTED CONDUIT.
3. REFER TO DRAWING # 52001136 FOR HARNESS SPECIFICATIONS.
2. TAG HARNESS FOR IDENTIFICATION.
1. CIRCUIT NUMBERS TO BE STAMPED AT 4" INTERVALS WITH THE PREFIX "B" ON ALL LEADS.

NOTES:



TERMINAL	DESCRIPTION
S-A	RING TERMINAL, #10 STUD, 16-14 AWG HEAT SHRINK

Thomas BUILT BUSES

52003029 A

HARNESS, ENGINE DOOR REAR LIGHTS, FOR LEFT SIDE REAR ENGINE

WIRE TABLE
SORTED BY FROM CONNECTOR AND PIN NO.

WIRE CKT CODE	FROM		TO		COLOR	GAUGE	CIRCUIT DESCRIPTION
	CONNECTOR	PIN NO.	CONNECTOR	PIN NO.			
GND-T	E1	A	P40GND-T	B	WHITE (WH)	16	GROUND
GND	E-GND1	I	P17GND-W	B	WHITE (WH)	16	GROUND
GND-G	E-GND1	I	E1	A	WHITE (WH)	16	GROUND
---	FUSE-10	B	BAT_STUD	12V	-	-	BOARD #1 BATTERY 12V
LM17-B	J15-W200-B	D	P17A-B	A	BROWN (BR)	16	CLUSTER LIGHTS
LM17-C	J15-W200-B	D	P17B-B	A	BROWN (BR)	16	CLUSTER LIGHTS
LM17-D	J15-W200-B	D	P17C-B	A	BROWN (BR)	16	CLUSTER LIGHTS
LM40-B	J15-W200-B	E	P40A-B	A	BROWN (BR)	16	MARKER LIGHTS
LM40-C	J15-W200-B	E	P40B-B	A	BROWN (BR)	16	MARKER LIGHTS
LM40-E	J15-W200-B	E	P40C-B	A	BROWN (BR)	16	MARKER LIGHTS
LM40-F	J15-W200-B	E	P40D-B	A	BROWN (BR)	16	MARKER LIGHTS
-	J20-B1	1	RELAY-8	87	-	-	BOARD #1 SIGNAL TRACE
--	J3-B1	9	GND_STUD	GND	-	-	BOARD #1 GROUND
-	J5-B1	1	RELAY-8	86	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	1	J20-B1	2	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	1	LED-25	1	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	2	J20-B1	3	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	2	LED-36	1	-	-	BOARD #1 SIGNAL TRACE
-	LED-11	1	RELAY-8	86	-	-	BOARD #1 SIGNAL TRACE
--	LED-11	2	GND_STUD	GND	-	-	BOARD #1 GROUND
--	LED-25	2	GND_STUD	GND	-	-	BOARD #1 GROUND
--	LED-25	2	J3-B1	9	-	-	BOARD #1 GROUND
--	LED-36	2	GND_STUD	GND	-	-	BOARD #1 GROUND
--	LED-36	2	J3-B1	9	-	-	BOARD #1 GROUND
LM17-D	P15-W100-B	D	P17-B-3	A	BROWN (BR)	16	CLUSTER LIGHTS
LM17-E	P15-W100-B	D	P17-B-2	A	BROWN (BR)	16	CLUSTER LIGHTS
LM17-F	P15-W100-B	D	P17-B-1	A	BROWN (BR)	16	CLUSTER LIGHTS
LM40-D	P15-W100-B	E	P40-B-2	A	BROWN (BR)	16	MARKER LIGHTS
LM40-E	P15-W100-B	E	P40-B-1	A	BROWN (BR)	16	MARKER LIGHTS
GND	P17GND-U	B	E-GND1	I	WHITE (WH)	16	GROUND
GND	P17GND-V	B	E-GND1	I	WHITE (WH)	16	GROUND
JP1	P20-B1	1	P20-B1	3	BROWN (BR)	18	P20-B1 JUMPER 1
JP2	P20-B1	1	P20-B1	2	BROWN (BR)	18	P20-B1 JUMPER 2
GND-A	P3-B1	9	E1	A	WHITE (WH)	16	GROUND
GND-X	P40GND-X	B	E-GND1	I	WHITE (WH)	16	GROUND
LM40-A	P6-B1	1	P15-W100-B	E	BROWN (BR)	16	MARKER LIGHTS
LM17-A	P6-B1	2	P15-W100-B	D	BROWN (BR)	16	CLUSTER LIGHTS
-	RELAY-8	30	FUSE-10	A	-	-	BOARD #1 SIGNAL TRACE

WIRE TABLE
SORTED BY WIRE CIRCUIT CODE

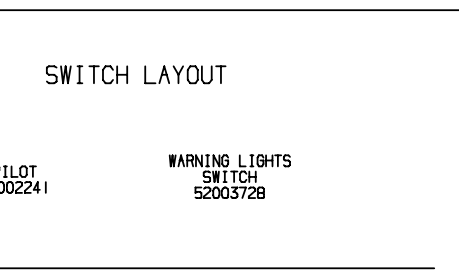
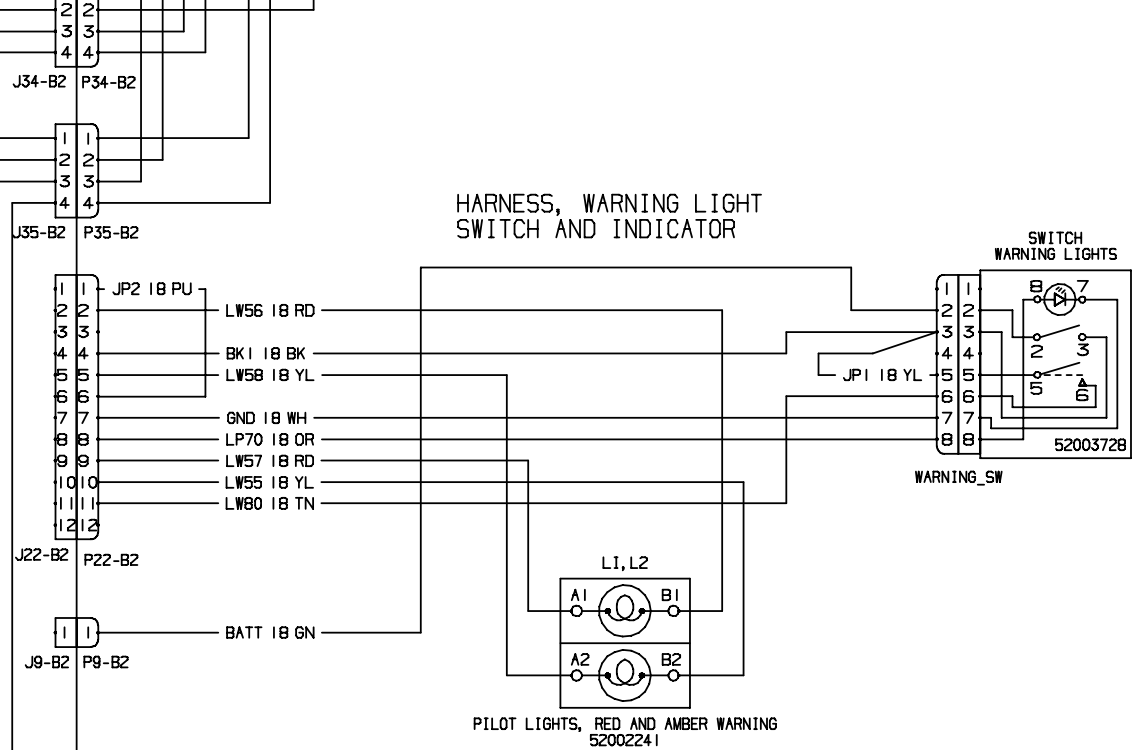
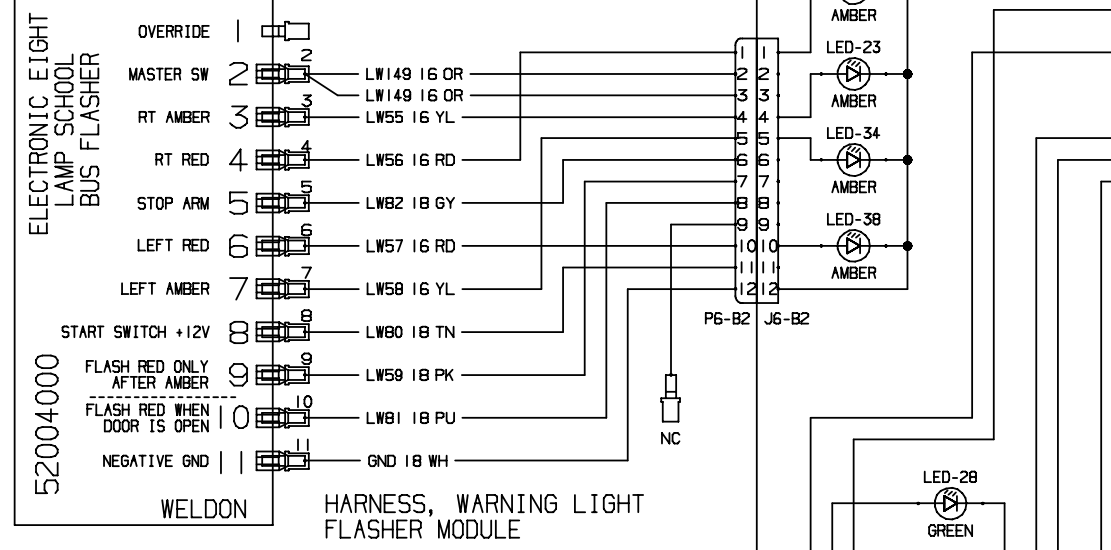
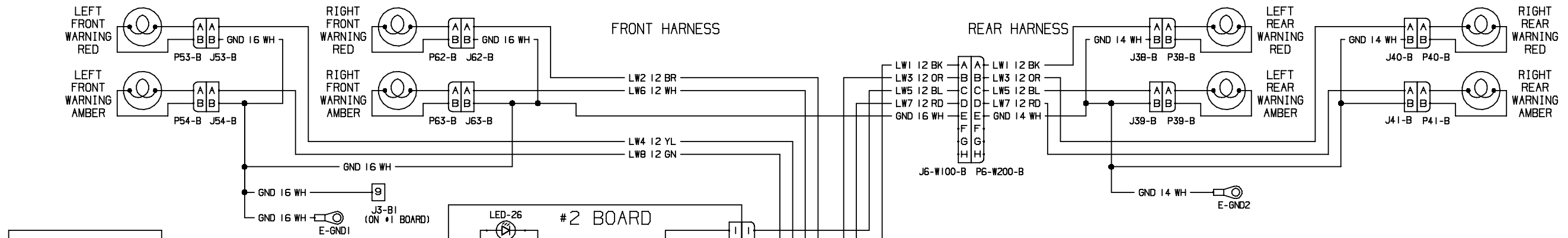
WIRE CKT CODE	FROM		TO		COLOR	GAUGE	CIRCUIT DESCRIPTION
	CONNECTOR	PIN NO.	CONNECTOR	PIN NO.			
-	J20-B1	1	RELAY-8	87	-	-	BOARD #1 SIGNAL TRACE
-	J5-B1	1	RELAY-8	86	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	1	J20-B1	2	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	1	LED-25	1	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	2	J20-B1	3	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	2	LED-36	1	-	-	BOARD #1 SIGNAL TRACE
-	LED-11	1	RELAY-8	86	-	-	BOARD #1 SIGNAL TRACE
-	RELAY-8	30	FUSE-10	A	-	-	BOARD #1 SIGNAL TRACE
--	J3-B1	9	GND_STUD	GND	-	-	BOARD #1 GROUND
--	LED-11	2	GND_STUD	GND	-	-	BOARD #1 GROUND
--	LED-25	2	GND_STUD	GND	-	-	BOARD #1 GROUND
--	LED-25	2	J3-B1	9	-	-	BOARD #1 GROUND
--	LED-36	2	GND_STUD	GND	-	-	BOARD #1 GROUND
--	LED-36	2	J3-B1	9	-	-	BOARD #1 GROUND
---	FUSE-10	B	BAT_STUD	12V	-	-	BOARD #1 BATTERY 12V
GND	E-GND1	I	P17GND-W	B	WHITE (WH)	16	GROUND
GND	P17GND-U	B	E-GND1	I	WHITE (WH)	16	GROUND
GND	P17GND-V	B	E-GND1	I	WHITE (WH)	16	GROUND
GND-A	P3-B1	9	E1	A	WHITE (WH)	16	GROUND
GND-G	E-GND1	I	E1	A	WHITE (WH)	16	GROUND
GND-T	E1	A	P40GND-T	B	WHITE (WH)	16	GROUND
GND-X	P40GND-X	B	E-GND1	I	WHITE (WH)	16	GROUND
JP1	P20-B1	1	P20-B1	3	BROWN (BR)	18	P20-B1 JUMPER 1
JP2	P20-B1	1	P20-B1	2	BROWN (BR)	18	P20-B1 JUMPER 2
LM17-A	P6-B1	2	P15-W100-B	D	BROWN (BR)	16	CLUSTER LIGHTS
LM17-B	J15-W200-B	D	P17A-B	A	BROWN (BR)	16	CLUSTER LIGHTS
LM17-C	J15-W200-B	D	P17B-B	A	BROWN (BR)	16	CLUSTER LIGHTS
LM17-D	J15-W200-B	D	P17C-B	A	BROWN (BR)	16	CLUSTER LIGHTS
LM17-D	P15-W100-B	D	P17-B-3	A	BROWN (BR)	16	CLUSTER LIGHTS
LM17-E	P15-W100-B	D	P17-B-2	A	BROWN (BR)	16	CLUSTER LIGHTS
LM17-F	P15-W100-B	D	P17-B-1	A	BROWN (BR)	16	CLUSTER LIGHTS
LM40-A	P6-B1	1	P15-W100-B	E	BROWN (BR)	16	MARKER LIGHTS
LM40-B	J15-W200-B	E	P40A-B	A	BROWN (BR)	16	MARKER LIGHTS
LM40-C	J15-W200-B	E	P40B-B	A	BROWN (BR)	16	MARKER LIGHTS
LM40-D	P15-W100-B	E	P40-B-2	A	BROWN (BR)	16	MARKER LIGHTS
LM40-E	J15-W200-B	E	P40C-B	A	BROWN (BR)	16	MARKER LIGHTS
LM40-E	P15-W100-B	E	P40-B-1	A	BROWN (BR)	16	MARKER LIGHTS
LM40-F	J15-W200-B	E	P40D-B	A	BROWN (BR)	16	MARKER LIGHTS



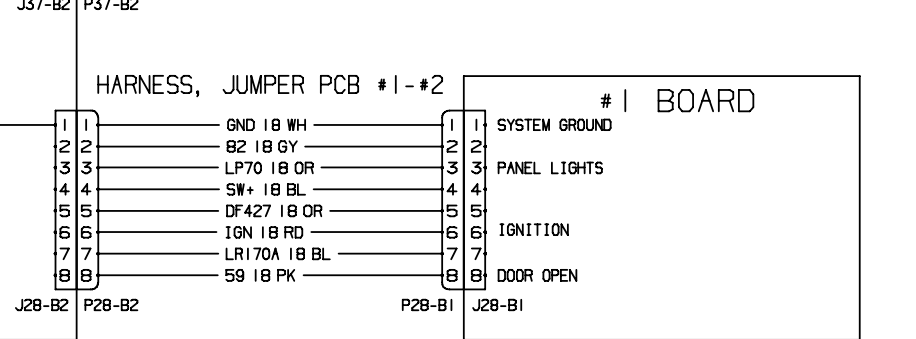
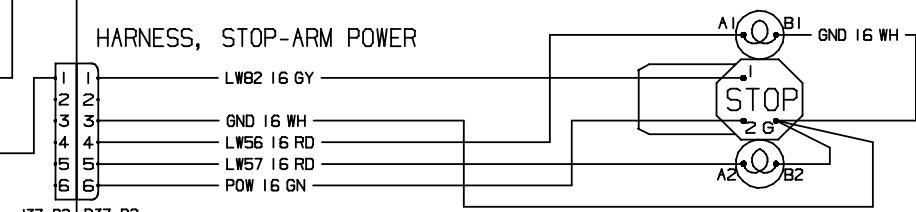
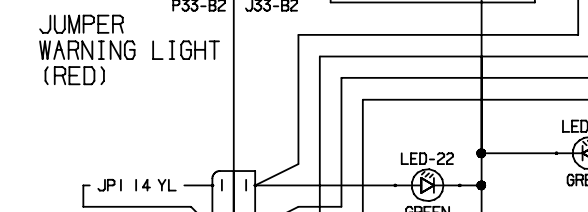
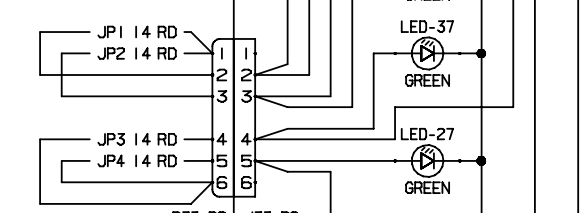
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Sheet 2 of 2

STANDARD MARKER LIGHTS



- B3582-04-000 SYSTEM OPERATION**
- FOUR 7" AMBER LIGHTS AND FOUR 7" RED LIGHTS.
 - AMBER LIGHTS MANUALLY ENERGIZED BY ROCKER SWITCH LOCATED ON THE SWITCH PANEL.
 - RED LIGHTS AUTOMATICALLY ENERGIZED (WITH AMBER LIGHTS AUTOMATICALLY DE-ENERGIZED) WHEN BUS SERVICE DOOR IS OPENED.
 - RED LIGHTS AND STOP ARM ACTIVATED WHENEVER SERVICE DOOR IS OPENED (NONSEQUENTIAL).
 - MASTER SWITCH LOCATED IN SWITCH PANEL.
 - RED AND AMBER PILOT LIGHT IN SWITCH CABINET TO INDICATE SYSTEM OPERATION.
 - WELDON ELECTRONIC FLASHER.



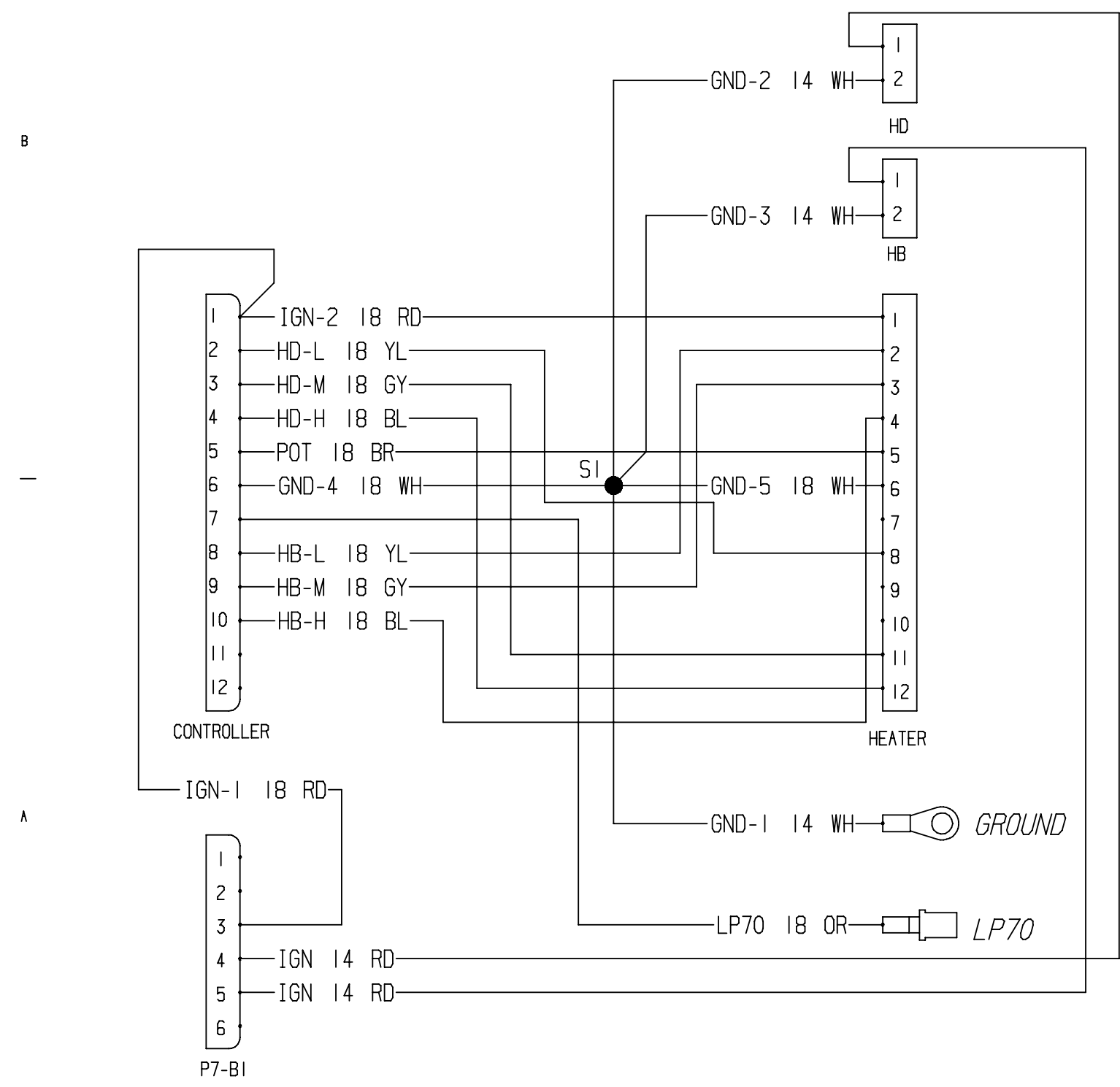
Sheet 1 of 3

Thomas BULLY BUSES
52004956 A

EIGHT LIGHT WARNING SYSTEM

Option: B3582-04-000

**STOP SIGNS &
CROSSING ARM
SECTION**



WIRE CKT CODE	FROM		TO		COLOR	GAUGE	CIRCUIT DESCRIPTION
	CONNECTOR	PIN NO.	CONNECTOR	PIN NO.			
GND-1	SI	A	GROUND	1	WHITE (WH)	14	GROUND
GND-2	HD	2	SI	A	WHITE (WH)	14	GROUND
GND-3	HB	2	SI	A	WHITE (WH)	14	GROUND
GND-4	CONTROLLER	6	SI	A	WHITE (WH)	18	GROUND
GND-5	SI	A	HEATER	6	WHITE (WH)	18	GROUND
HB-H	HEATER	4	CONTROLLER	10	BLUE (BL)	18	DRIVER HEATER HIGH
HB-L	HEATER	2	CONTROLLER	8	YELLOW (YL)	18	DRIVER HEATER LOW
HB-M	CONTROLLER	9	HEATER	3	GRAY (GY)	18	DRIVER HEATER MEDIUM
HD-H	HEATER	12	CONTROLLER	4	BLUE (BL)	18	DEFROSTER HIGH
HD-L	HEATER	8	CONTROLLER	2	YELLOW (YL)	18	DEFROSTER LOW
HD-M	HEATER	11	CONTROLLER	3	GRAY (GY)	18	DEFROSTER MEDIUM
IGN	HB	1	P7-BI	5	RED (RD)	14	BLOWER POWER
IGN	HD	1	P7-BI	4	RED (RD)	14	DEFROSTER POWER
IGN-1	P7-BI	3	CONTROLLER	1	RED (RD)	18	IGNITION
IGN-2	CONTROLLER	1	HEATER	1	RED (RD)	18	IGNITION
LP70	LP70	1	CONTROLLER	7	ORANGE (OR)	18	PANEL LIGHT
POT	CONTROLLER	5	HEATER	5	BROWN (BR)	18	SIGNAL POT

	52006568 C
HARNES, HEATER CON- TROLLER INTERFACE	

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WIRE TABLE
SORTED BY FROM CONNECTOR AND PIN NO.

WIRE CKT CODE	FROM		TO		COLOR	GAUGE	CIRCUIT DESCRIPTION
	CONNECTOR	PIN NO.	CONNECTOR	PIN NO.			
JP1	FAN_SW-1	3	FAN_SW-1	5	TAN (TN)	16	FAN_SW-1 JUMPER 1
JP2	FAN_SW-2	3	FAN_SW-2	5	TAN (TN)	16	FAN_SW-2 JUMPER 2
GND-1	FAN_SW-2	7	FAN_SW-1	7	WHITE (WH)	18	GROUND
LP70-1	FAN_SW-2	8	FAN_SW-1	8	ORANGE (OR)	18	TO PANEL LIGHTS
----	FUSE-20	B	IGN_STUD	IGN	-	-	BOARD #1 IGNITION
-	J10-B1	1	J6-B1	9	-	-	BOARD #1 SIGNAL TRACE
-	J10-B1	2	J6-B1	10	-	-	BOARD #1 SIGNAL TRACE
-	J10-B1	3	J3-B1	7	-	-	BOARD #1 SIGNAL TRACE
-	J10-B1	4	FUSE-16	B	-	-	BOARD #1 SIGNAL TRACE
-	J10-B1	5	FUSE-17	B	-	-	BOARD #1 SIGNAL TRACE
-	J10-B1	6	J6-B1	11	-	-	BOARD #1 SIGNAL TRACE
--	J10-B1	7	GND	GND	-	-	BOARD #1 GROUND
-	J27-B1	1	RELAY-9	86	-	-	BOARD #1 SIGNAL TRACE
-	J27-B1	3	FUSE-20	A	-	-	BOARD #1 SIGNAL TRACE
-	J3-B1	7	LED-20	1	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	9	LED-23	1	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	10	LED-34	1	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	11	LED-22	1	-	-	BOARD #1 SIGNAL TRACE
-	LED-12	1	RELAY-9	86	-	-	BOARD #1 SIGNAL TRACE
--	LED-12	2	GND	GND	-	-	BOARD #1 GROUND
--	LED-20	2	GND	GND	-	-	BOARD #1 GROUND
--	LED-22	2	GND	GND	-	-	BOARD #1 GROUND
--	LED-23	2	GND	GND	-	-	BOARD #1 GROUND
--	LED-34	2	GND	GND	-	-	BOARD #1 GROUND
FD35	P10-B1	1	FAN_SW-2	4	TAN (TN)	18	RIGHT DEFROSTER FAN LOW
FD37	P10-B1	2	FAN_SW-2	6	BLUE (BL)	16	RIGHT DEFROSTER FAN HIGH
FD34	P10-B1	3	FAN_SW-1	4	GRAY (GY)	18	LEFT DEFROSTER FAN LOW
SW2+	P10-B1	4	FAN_SW-2	2	GRAY (GY)	16	RIGHT FAN POWER
SW1+	P10-B1	5	FAN_SW-1	2	GRAY (GY)	16	LEFT FAN POWER
FD36	P10-B1	6	FAN_SW-1	6	BLACK (BK)	16	LEFT DEFROSTER FAN HIGH
GND	P10-B1	7	FAN_SW-1	7	WHITE (WH)	18	GROUND
LP70	P10-B1	8	FAN_SW-1	8	ORANGE (OR)	18	TO PANEL LIGHTS
JP1	P27-B1	1	P27-B1	3	YELLOW (YL)	18	P27-B1 JUMPER 1
FD34	P3-B1	7	J52-B	A	GRAY (GY)	16	LEFT DEFROSTER FAN LOW
FD35	P6-B1	9	J64-B	A	TAN (TN)	16	RIGHT DEFROSTER FAN LOW
FD37	P6-B1	10	J64-B	B	BLUE (BL)	16	RIGHT DEFROSTER FAN HIGH
FD36	P6-B1	11	J52-B	B	BLACK (BK)	16	LEFT DEFROSTER FAN HIGH
---	RELAY-9	30	BAT_STUD	12V	-	-	BOARD #1 BATTERY 12V
--	RELAY-9	85	GND	GND	-	-	BOARD #1 GROUND
-	RELAY-9	87	FUSE-16	A	-	-	BOARD #1 SIGNAL TRACE
-	RELAY-9	87	FUSE-17	A	-	-	BOARD #1 SIGNAL TRACE

WIRE TABLE
SORTED BY WIRE CIRCUIT CODE

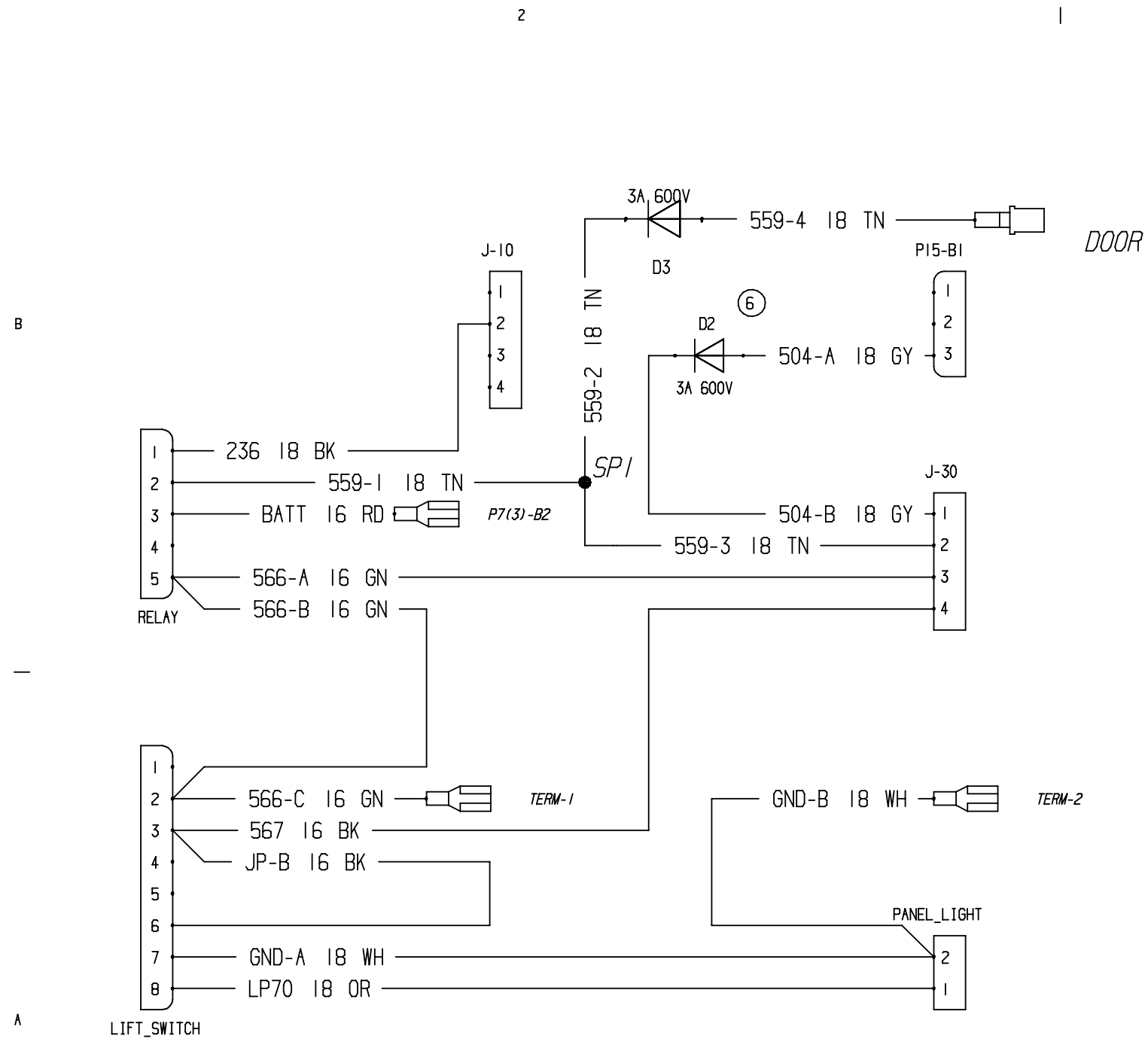
WIRE CKT CODE	FROM		TO		COLOR	GAUGE	CIRCUIT DESCRIPTION
	CONNECTOR	PIN NO.	CONNECTOR	PIN NO.			
-	J10-B1	1	J6-B1	9	-	-	BOARD #1 SIGNAL TRACE
-	J10-B1	2	J6-B1	10	-	-	BOARD #1 SIGNAL TRACE
-	J10-B1	3	J3-B1	7	-	-	BOARD #1 SIGNAL TRACE
-	J10-B1	4	FUSE-16	B	-	-	BOARD #1 SIGNAL TRACE
-	J10-B1	5	FUSE-17	B	-	-	BOARD #1 SIGNAL TRACE
-	J10-B1	6	J6-B1	11	-	-	BOARD #1 SIGNAL TRACE
-	J27-B1	1	RELAY-9	86	-	-	BOARD #1 SIGNAL TRACE
-	J27-B1	3	FUSE-20	A	-	-	BOARD #1 SIGNAL TRACE
-	J3-B1	7	LED-20	1	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	9	LED-23	1	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	10	LED-34	1	-	-	BOARD #1 SIGNAL TRACE
-	J6-B1	11	LED-22	1	-	-	BOARD #1 SIGNAL TRACE
-	LED-12	1	RELAY-9	86	-	-	BOARD #1 SIGNAL TRACE
-	RELAY-9	87	FUSE-16	A	-	-	BOARD #1 SIGNAL TRACE
-	RELAY-9	87	FUSE-17	A	-	-	BOARD #1 SIGNAL TRACE
--	J10-B1	7	GND	GND	-	-	BOARD #1 GROUND
--	LED-12	2	GND	GND	-	-	BOARD #1 GROUND
--	LED-20	2	GND	GND	-	-	BOARD #1 GROUND
--	LED-22	2	GND	GND	-	-	BOARD #1 GROUND
--	LED-23	2	GND	GND	-	-	BOARD #1 GROUND
--	RELAY-9	85	GND	GND	-	-	BOARD #1 GROUND
---	RELAY-9	30	BAT_STUD	12V	-	-	BOARD #1 BATTERY 12V
----	FUSE-20	B	IGN_STUD	IGN	-	-	BOARD #1 IGNITION
FD34	P10-B1	3	FAN_SW-1	4	GRAY (GY)	18	LEFT DEFROSTER FAN LOW
FD34	P3-B1	7	J52-B	A	GRAY (GY)	16	LEFT DEFROSTER FAN LOW
FD35	P10-B1	1	FAN_SW-2	4	TAN (TN)	18	RIGHT DEFROSTER FAN LOW
FD35	P6-B1	9	J64-B	A	TAN (TN)	16	RIGHT DEFROSTER FAN LOW
FD36	P10-B1	6	FAN_SW-1	6	BLACK (BK)	16	LEFT DEFROSTER FAN HIGH
FD36	P6-B1	11	J52-B	B	BLACK (BK)	16	LEFT DEFROSTER FAN HIGH
FD37	P10-B1	2	FAN_SW-2	6	BLUE (BL)	16	RIGHT DEFROSTER FAN HIGH
FD37	P6-B1	10	J64-B	B	BLUE (BL)	16	RIGHT DEFROSTER FAN HIGH
GND	P10-B1	7	FAN_SW-1	7	WHITE (WH)	18	GROUND
GND-1	FAN_SW-2	7	FAN_SW-1	7	WHITE (WH)	18	GROUND
JP1	FAN_SW-1	3	FAN_SW-1	5	TAN (TN)	16	FAN_SW-1 JUMPER 1
JP1	P27-B1	1	P27-B1	3	YELLOW (YL)	18	P27-B1 JUMPER 1
JP2	FAN_SW-2	3	FAN_SW-2	5	TAN (TN)	16	FAN_SW-2 JUMPER 2
LP70	P10-B1	8	FAN_SW-1	8	ORANGE (OR)	18	TO PANEL LIGHTS
LP70-1	FAN_SW-2	8	FAN_SW-1	8	ORANGE (OR)	18	TO PANEL LIGHTS
SW1+	P10-B1	5	FAN_SW-1	2	GRAY (GY)	16	LEFT FAN POWER
SW2+	P10-B1	4	FAN_SW-2	2	GRAY (GY)	16	RIGHT FAN POWER

Sheet 2 of 2




DEFROSTER FANS

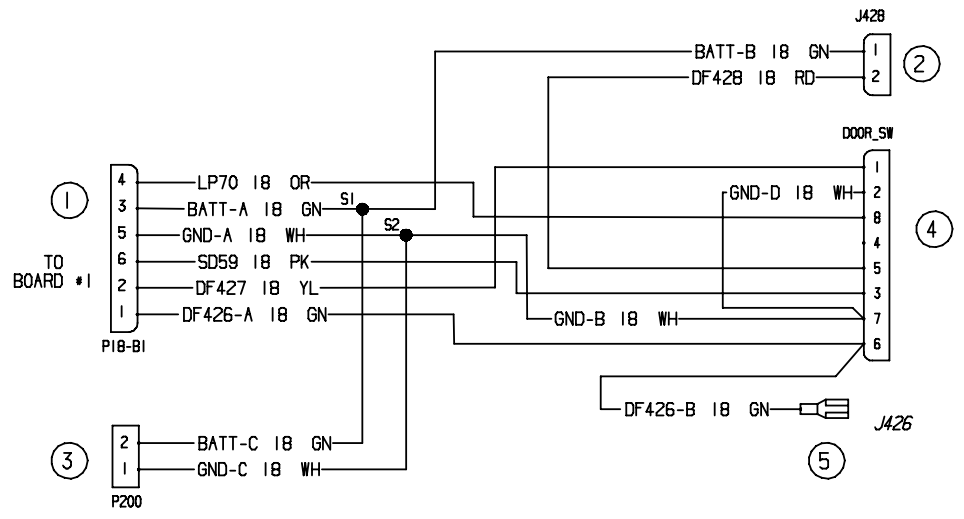
Option: B2160-XX-000



WIRE CKT CODE	FROM		TO		COLOR	GAUGE	CIRCUIT DESCRIPTION
	CONNECTOR	PIN NO.	CONNECTOR	PIN NO.			
236	RELAY	1	J-10	2	BLACK (BK)	18	NEUTRAL FROM CHASSIS
567	LIFT_SWITCH	3	J-30	4	BLACK (BK)	16	LIFT SWITCH TO LIFT
504-A	P15-B1	3	D2	M	GRAY (GY)	18	BUZZER SIGNAL
504-B	D2	P	J-30	1	GRAY (GY)	18	BUZZER SIGNAL
559-1	RELAY	2	SP1	1	TAN (TN)	18	DOOR SWITCH TO RELAY
559-2	SP1	1	D3	P	TAN (TN)	18	DOOR SWITCH TO RELAY
559-3	SP1	1	J-30	2	TAN (TN)	18	DOOR SWITCH TO RELAY
559-4	D3	M	DOOR	1	TAN (TN)	18	DOOR SWITCH TO RELAY
566-A	RELAY	5	J-30	3	GREEN (GR)	16	TO REAR DOOR LIGHTS
566-B	RELAY	5	LIFT_SWITCH	2	GREEN (GR)	16	JUMPER TO LIFT SWITCH
566-C	LIFT_SWITCH	2	TERM-1	1	GREEN (GR)	16	SWITCH POWER
BATT	RELAY	3	P7(3)-B2	1	RED (RD)	16	BATTERY FEED FOR RELAY
GND-A	LIFT_SWITCH	7	PANEL_LIGHT	2	WHITE (WH)	18	GROUND
GND-B	PANEL_LIGHT	2	TERM-2	1	WHITE (WH)	18	GROUND
JP-B	LIFT_SWITCH	3	LIFT_SWITCH	6	BLACK (BK)	16	JUMPER IN LIFT SWITCH
LP70	LIFT_SWITCH	8	PANEL_LIGHT	1	ORANGE (OR)	18	PANEL LIGHT

Sheet 2 of 2

	52006990 A
HARNES, LIFT, PC BOARD	

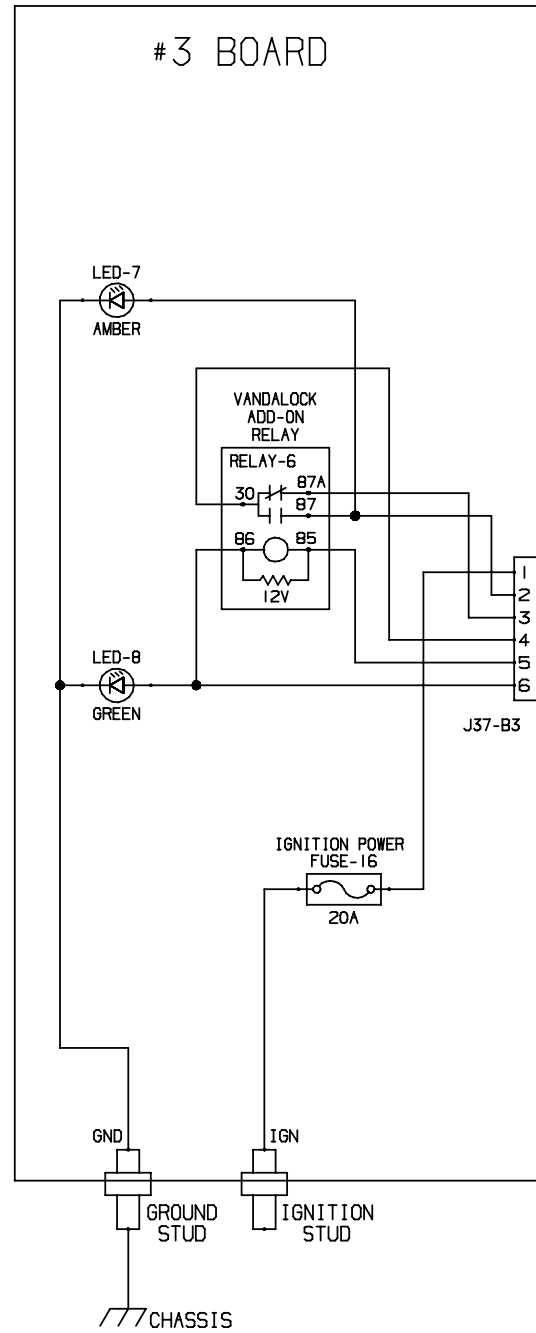
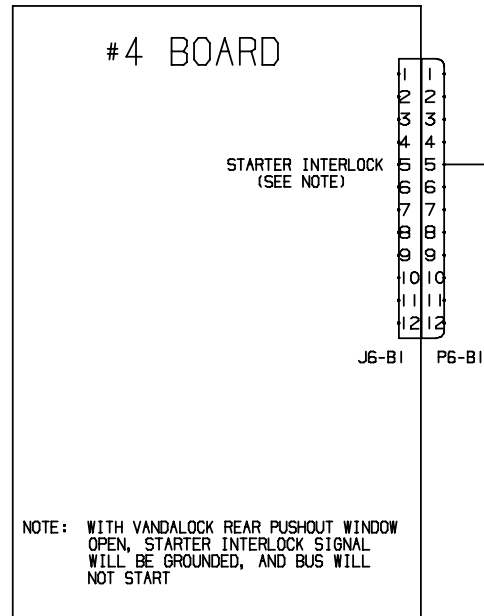


CKT.CODE	GA	COLOR	DESCRIPTION
BATT	18	GREEN	BATTERY POWER
GND	18	WHITE	GROUND
LP70	18	ORANGE	PANEL LIGHTS
SD59	18	PINK	SW SIGNAL (GND) TO WARN LT. FLASHER
DF426	18	GREEN	DOOR CONTROLLER (OPEN)
DF427	18	YELLOW	MANUAL OVERRIDE RELAY
DF428	18	RED	DOOR SIGNAL

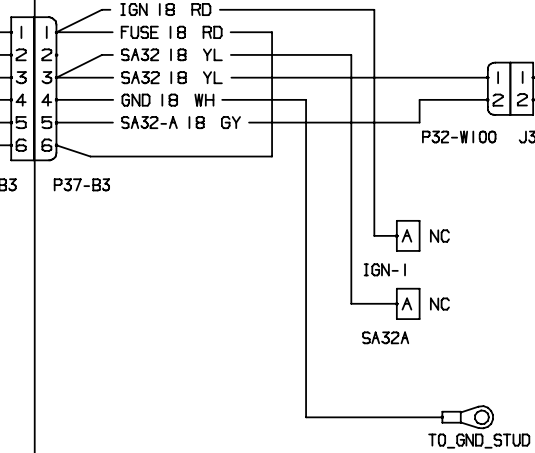
ITEM	VENDOR	PART NO.	DESCRIPTION
1	AMP	174923-1 X	MULTILOCK CONNECTOR, 070 6P FEMALE TERMINALS, TIN/BRONZE
2	AMP	174460-1 X	MULTILOCK CONNECTOR, 070 2P MALE TERMINALS, TIN/BRONZE
3	AMP	174463-1 X	MULTILOCK CONNECTOR, 070 2P FEMALE TERMINALS, TIN/BRONZE
4	CARLING PACKARD	99916716001 X	SWITCH CONNECTOR TERMINAL-FEMALE 630 SERIES TIN/BRASS
5	AMP	XX	TERMINAL, FEMALE-250 FASTON, FULLY INSULATED

Sheet 2 of 2

	52004017 D
HARNES, DOOR FROM PC BOARD 1 TO SWITCH	

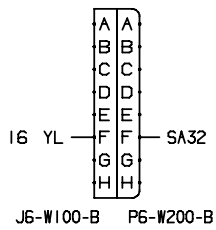


HARNESS, VANDALOCK RELAY

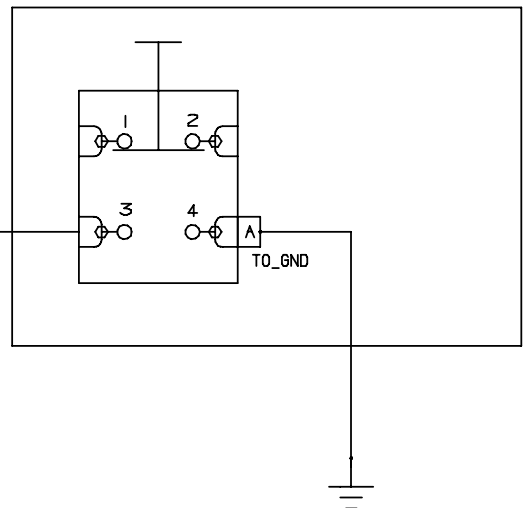


FRONT HARNESS

REAR HARNESS



VANDALOCK - REAR PUSHOUT WINDOW/EXIT DOOR



Thomas
BUILT BUSES

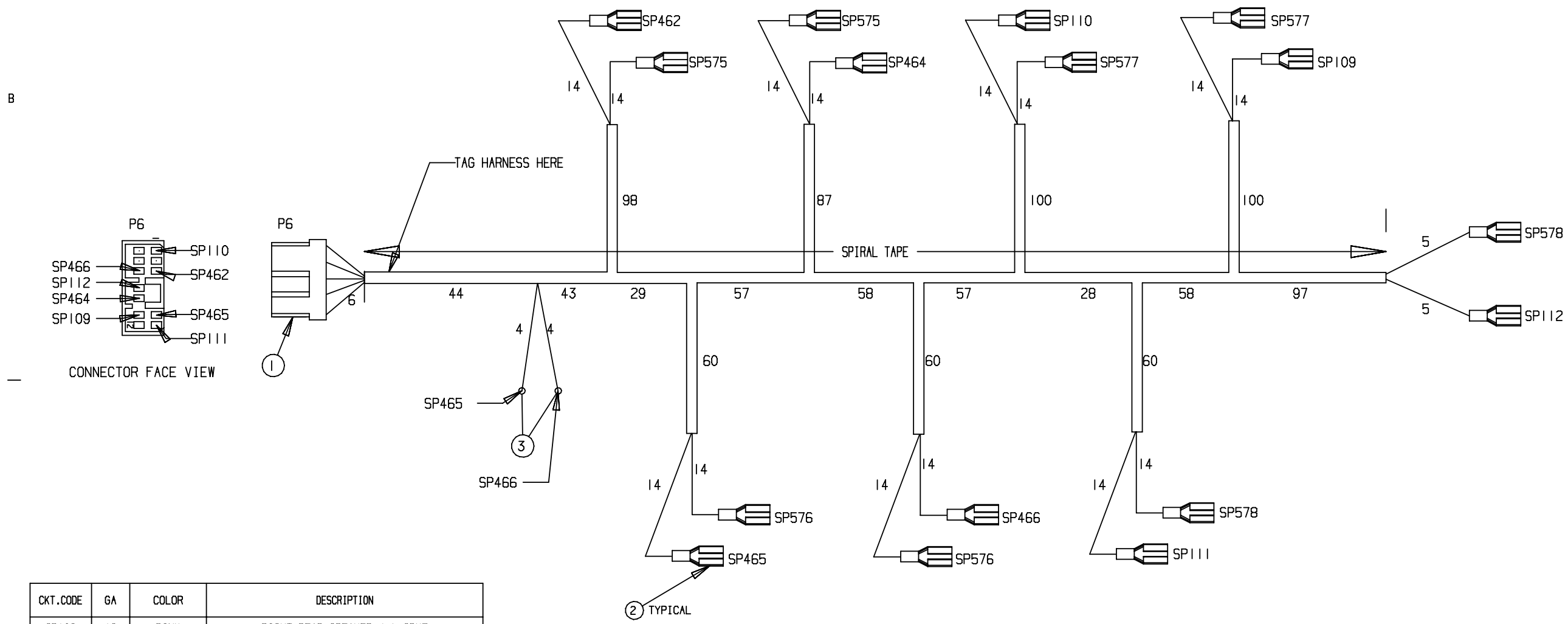
52004959 B

Sheet 1 of 2

VANDALOCK REAR
PUSHOUT WINDOW

Option: B518X-XX-XXX

ITEM	VENDOR	PART NO.	DESCRIPTION
1	AMP	173851-1 X	MULTILOCK CONNECTOR, 070 12P TERMINAL-FEMALE, TIN/BRONZE
2	AMP	XX	TERMINAL-FEMALE, 250 FASTON, FULLY INSULATED
3	AMP	XX	TERMINAL, BUTT SPLICE

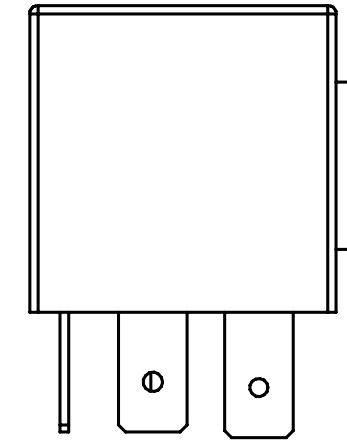
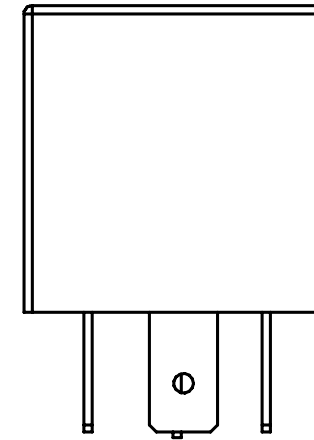


CKT.CODE	GA	COLOR	DESCRIPTION
SP109	18	PINK	RIGHT REAR SPEAKER (-) SPK7
SP110	18	PURPLE	RIGHT REAR SPEAKER (+) SPK5
SP111	18	YELLOW	LEFT REAR SPEAKER (+) SPK6
SP112	18	ORANGE	LEFT REAR SPEAKER (-) SPK8
SP462	18	GRAY	RIGHT FRONT SPEAKER (+) SPK1
SP464	18	BLUE	RIGHT FRONT SPEAKER (-) SPK3
SP465	18	TAN	LEFT FRONT SPEAKER (+) SPK2
SP466	18	BROWN	LEFT FRONT SPEAKER (-) SPK4
SP575	18	RED	FROM SPK1 (-) TO SPK3 (+)
SP576	18	ORANGE	FROM SPK2 (-) TO SPK4 (+)
SP577	18	BLUE	FROM SPK5 (-) TO SPK7 (+)
SP578	18	GREEN	FROM SPK6 (-) TO SPK8 (+)

Thomas BUILT BUSES	5200522 E
HARNES, SPEAKER, EIGHT SPEAKER (13-14 WINDOW SECTION), PC BOARD COMPATIBLE	

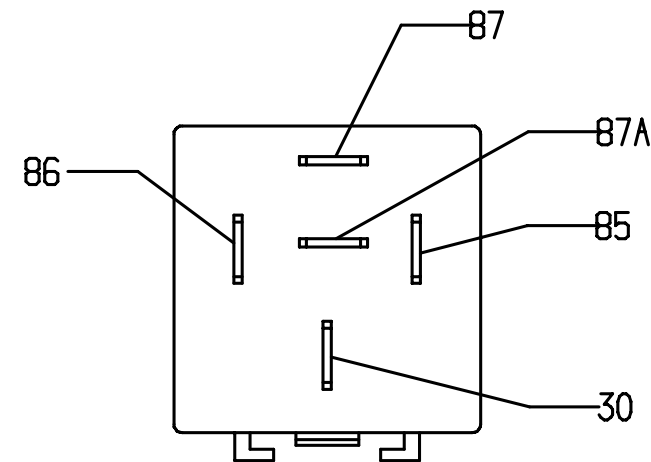
B

RELAY CHARACTERISTICS	
MECHANICAL LIFE (OPERATIONS)	10,000,000
ELECTRICAL LIFE (CYCLES)	100,000
OPERATING TEMP RANG (CELSIUS)	-40 to +70
WEIGHT	40 GRAMS
TERMINAL MOUNTING	STD. ISO
CONTACT RATING N.O. CONT.	50 AMPS
CONTACT RATING N.C. CONT.	30 AMPS
OPERATE TIME	10 MS MAX
RELEASE TIME	10 MS MAX



—

DIAGRAM PIN TO CIRCUIT CONVERSION	
1	86
2	85
3	30
4	87A
5	87

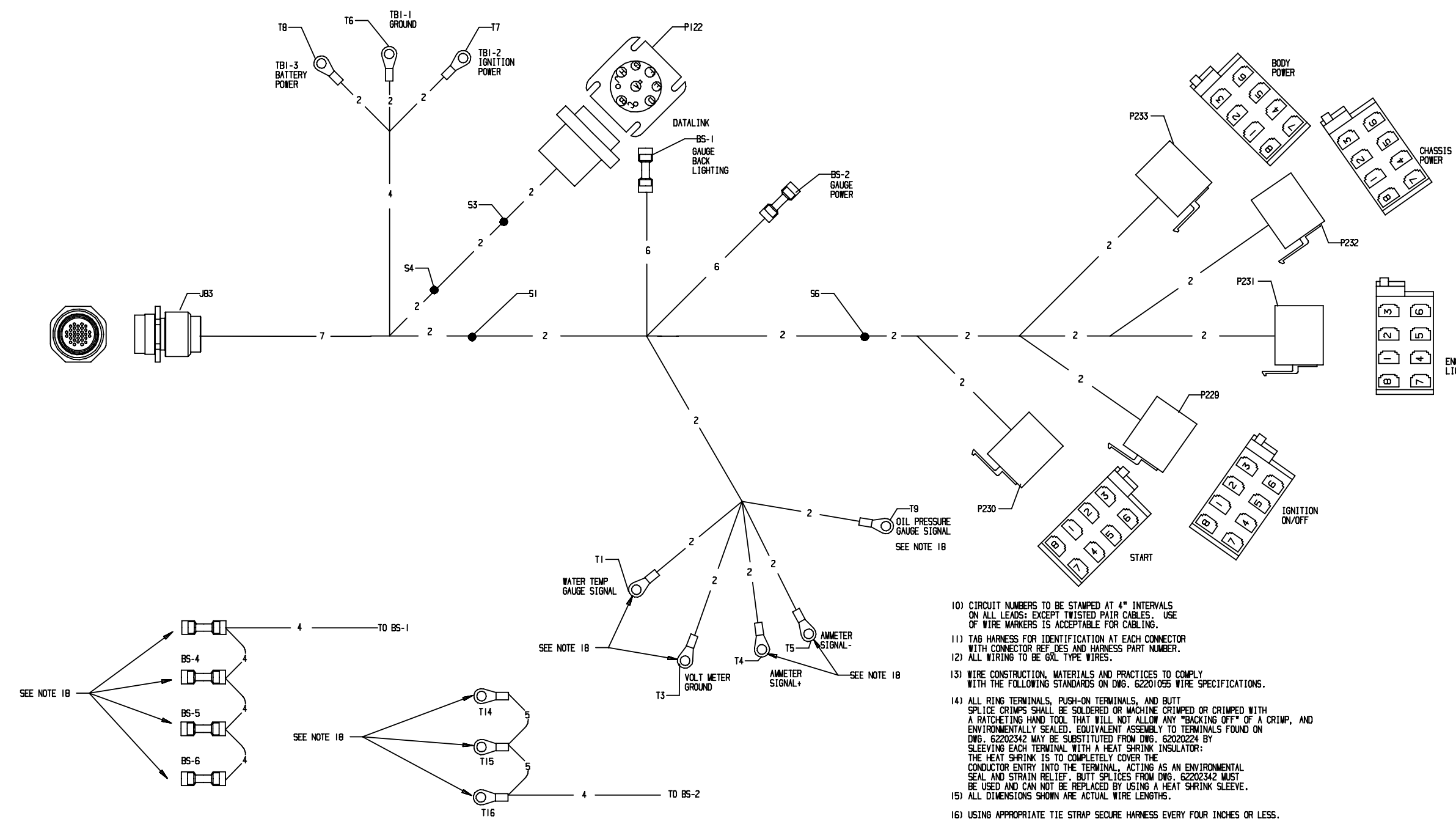


A

Thomas BUILT IN U.S.A.	52005441 B
RELAY 12V, 50 AMP NO MOUNTING EAR	

B 1 7 1 6 1 5 1 4 1 3 1 2 1 1

D
C
B
A



- NOTES:
 1) MATERIAL: N/A
 2) BLANK: N/A
 3) CALCULATED WEIGHT: N/A
 4) BURRS: N/A
 5) FINISH: N/A
 6) COLOR: N/A
 7) BENDS: N/A
 8) WELDS: N/A
 9) REFERENCE: N/A

- 10) CIRCUIT NUMBERS TO BE STAMPED AT 4" INTERVALS ON ALL LEADS; EXCEPT TWISTED PAIR CABLES. USE OF WIRE MARKERS IS ACCEPTABLE FOR CABLING.
 11) TAG HARNESS FOR IDENTIFICATION AT EACH CONNECTOR WITH CONNECTOR REF DES AND HARNESS PART NUMBER.
 12) ALL WIRING TO BE GXL TYPE WIRES.
 13) WIRE CONSTRUCTION, MATERIALS AND PRACTICES TO COMPLY WITH THE FOLLOWING STANDARDS ON DWG. 62201055 WIRE SPECIFICATIONS.
 14) ALL RING TERMINALS, PUSH-ON TERMINALS, AND BUTT SPLICE CRIMPS SHALL BE SOLDERED OR MACHINE CRIMPED OR CRIMPED WITH A RATCHETING HAND TOOL THAT WILL NOT ALLOW ANY "BACKING OFF" OF A CRIMP, AND ENVIRONMENTALLY SEALED. EQUIVALENT ASSEMBLY TO TERMINALS FOUND ON DWG. 62202342 MAY BE SUBSTITUTED FROM DWG. 62202224 BY SLEEVING EACH TERMINAL WITH A HEAT SHRINK INSULATOR: THE HEAT SHRINK IS TO COMPLETELY COVER THE CONDUCTOR ENTRY INTO THE TERMINAL, ACTING AS AN ENVIRONMENTAL SEAL AND STRAIN RELIEF. BUTT SPLICES FROM DWG. 62202342 MUST BE USED AND CAN NOT BE REPLACED BY USING A HEAT SHRINK SLEEVE.
 15) ALL DIMENSIONS SHOWN ARE ACTUAL WIRE LENGTHS.
 16) USING APPROPRIATE TIE STRAP SECURE HARNESS EVERY FOUR INCHES OR LESS.
 17) REFERENCE SAE SPECIFICATION J1939/11 FOR SPLICE INFORMATION.
 18) USE AS NEEDED. INSULATE ANY UNUSED TERMINALS WITH SHRINK WRAP AND TIE BACK.
 19) WIRES SPARE1 AND SPARE4 ARE TO BE SIX INCHES LONG, UTERMINATED AND TIE STRAPPED TO MAIN HARNESS BODY.

Thomas
BUILT BUSES

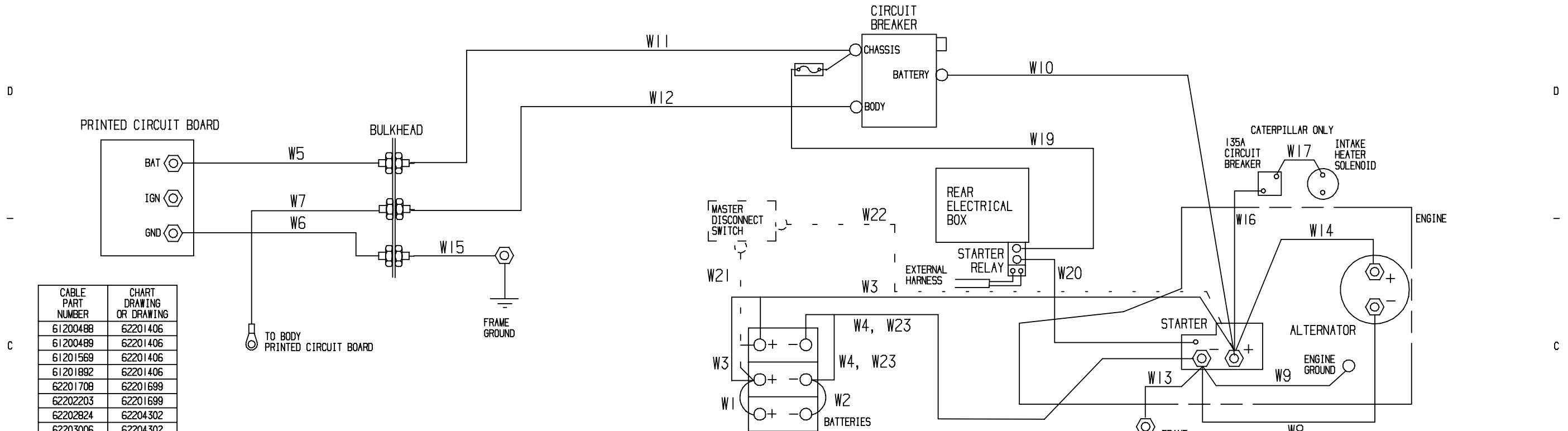
62204270 A

HARNESS, REAR BOX

Sheet 1 of 4

B 1 7 1 6 1 5 1 4 1 3 1 2 1 1

B 1 7 1 6 1 5 1 4 1 3 1 2 1 1



D
-
C
-
B
-
A

CABLE PART NUMBER	CHART DRAWING OR DRAWING
61200488	62201406
61200489	62201406
61201569	62201406
61201892	62201406
62201708	62201699
62202203	62201699
62202824	62204302
62203006	62204302
62204310	62203840
62203333	62201699
62203334	62201699
62203348	62201699
62203762	62204302
62204309	62204302
622043XX	62203840
62204308	62204302
62203960	62201699
62203961	62201699
62203963	62201699
62203964	62201699
62203965	62204302
62204355	62204302
62203968	62204302
62204330	62204302
62204373	62204302
62204372	62204302
62204335	62204302
62204348	62204302
62204459	62201406
62204460	62201406
62204461	62201406
62204462	62201406
62204463	62201406
62204464	62201406
62204465	62201406
62204466	62200556
62204467	62200556
62204468	62200556
62204469	62200556
62204470	62201925
62204472	62201925
62204473	62201925

BATTERY OPTION	C181606000 DUAL 12V GRP 31	C181607000 TRIPLE 12V	C181608000 TRIPLE 12V TYPE 31	C181609000 DUAL 12V GRP 31	C181814000 DUAL 12V ODYSSEY	C181807000 DUAL 12V 8D	C181808000 DUAL 12V 8D 2800 CCA				
LOCATION DESIGNATION	CABLE PART NUMBER	CABLE PART NUMBER	CABLE PART NUMBER	CABLE PART NUMBER	CABLE PART NUMBER	CABLE PART NUMBER	CABLE PART NUMBER	COLOR	DESCRIPTION		
W1	N/U	61200488	61200488	N/U	N/U	N/U	N/U	RED	BATTERY TO BATTERY POSITIVE		
W2	N/U	61200489	61200489	N/U	N/U	N/U	N/U	BLACK	BATTERY TO BATTERY NEGATIVE		
W3	62204459, MBE 62204463						62204466, MBE 62204468		RED	BATTERY TO BATTERY TO STARTER POSITIVE	
W4	62204460, MBE 62204464						62204467, MBE 62204469		BLACK	BATTERY GND TO STARTER B- GND TERMINAL	
W5	62203333									RED	PCB 12V STUD TO BULKHEAD FEEDTHRU BATTERY STUD
W6	62203334									BLACK	PCB GND STUD TO BULKHEAD FEEDTHRU GROUND STUD
W7	62203344									RED	POWER, BULKHEAD TO PCB #1
W8	CAT/CUMMINS/DEERE: 160/175 AMP - 62203348; 200/275 AMP - 62203963 MERCEDES: 175 AMP - 62203762; 200/270 AMP - 62203006										ALTERNATOR GROUND TO STARTER GROUND
W9	62203960									BLACK	ENGINE BLOCK GROUND TO STARTER GROUND
W10	MERCEDES 62204309, CAT/CUMM 62204308, DEERE 62204373									RED	SYSTEM POWER FEED
W11	62204367									RED	CHASSIS POWER DISTRIBUTION, 181 IN WHEEL BASE
	62204368										CHASSIS POWER DISTRIBUTION, 209 IN WHEEL BASE
	62204369										CHASSIS POWER DISTRIBUTION, 238 IN WHEEL BASE
	62204370										CHASSIS POWER DISTRIBUTION, 267 IN WHEEL BASE
	62204371										CHASSIS POWER DISTRIBUTION, 277 IN WHEEL BASE
W12	62204303									RED	BODY POWER DISTRIBUTION, 181 IN WHEEL BASE
	62204304										BODY POWER DISTRIBUTION, 209 IN WHEEL BASE
	62204305										BODY POWER DISTRIBUTION, 238 IN WHEEL BASE
	62204306										BODY POWER DISTRIBUTION, 267 IN WHEEL BASE
	62204307										BODY POWER DISTRIBUTION, 277 IN WHEEL BASE
W13	62203961									BLACK	FRAME GROUND TO STARTER GROUND STUD
W14	CAT/CUMMINS 62203965, MERCEDES 62204348, DEERE 62204330									RED	STARTER POWER STUD TO ALTERNATOR POWER STUD
W15	62204310									BLACK	BULKHEAD STUD TO CHASSIS GROUND
W16	CAT ONLY 62201708									RED	AIR INLET HEATER INPUT
W17	CAT ONLY 62204140									RED	AIR INLET HEATER OUTPUT
W19	CAT/CUMMINS/MERCEDES 62204355, DEERE 62204372									RED	STARTER RELAY TO SYSTEM POWER RELAY
W20	CAT/CUMMINS 62203968, DEERE/MERCEDES 62204335									RED	STARTER RELAY TO STARTER SOLENOID
W21	62204465				62204470				RED	BATTERY POSITIVE TO MASTER DISCONNECT SWITCH IN	
W22	61201276, MBE 61201769				61201198, MBE 61201766				RED	MASTER DISCONNECT SWITCH OUT TO START B+	
W23	62204460, MBE 62204464				62204472, MBE 62204473				BLACK	BATTERY- TO STARTER B- (MAST DISCONNECT SW OPT)	

SOUTH CAROLINA, CATERPILLAR ONLY

C182003000 INDIVIDUAL BAT CABLES	CABLE PART NUMBER	COLOR	DESCRIPTION
	62204461	RED	BATTERY TO BATTERY POSITIVE
	62204462	BLACK	BATTERY TO BATTERY NEGATIVE
	61201569	BLACK	BATTERY, NEGATIVE, SINGLE, 133"
	61201892	RED	BATTERY, POSITIVE SINGLE, 145"

Thomas
BULLY BUSES

62204149 K

**INTERCONNECTION DIA-
GRAM, BATTERY CABLES**

B 1 7 1 6 1 5 1 4 1 3 1 1

P99	
VENDOR	AMP
HOUSING	1355206-1
SECONDARY LOCK	967633-1
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	-
2	-
3	-
4	116 * 1204
5	-
6	-
7	376C * 1701
8	376A * 1701
9	116 * 1204
10	J1587- * 1601
11	J1587+ * 1601
12	-
13	-
14	376R * 1701
15	376L1 * 1701

P109	
VENDOR	CARLING
HOUSING	999-16716-001
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	392 * 170B & 392A * 170B
2	14A * 1106
3	393 * 170B & 393A * 170B
4	393A * 170B
5	GND * 1204
6	392A * 170B
7	GND * 1204
8	E033 * 1803

P120	
VENDOR	YAZAKI
HOUSING	7283-5530-40
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	392 * 170B
2	393 * 170B

P197	
VENDOR	AMP
HOUSING	172128-1
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	406E * 1323

P111	
VENDOR	DEUTSCH
HOUSING	DT06-35-E003
WEDGE	W35
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
A	440P+ * 1506
B	440G * 1205
C	440P- * 1506

P122	
VENDOR	DEUTSCH
HOUSING	HD10-9-1939P
CAP	HDC16-9
PLUG	12129557
-	-
-	-
CAVITY	CIRCUIT CODE
A	13 * 1202
B	14A * 1106
C	J1939+ * 1603
D	J1939- * 1603
E	J1939S * 1603
F	J1587+ * 1601
G	J1587- * 1601
H	-
J	-

J150	
VENDOR	PACKARD
HOUSING	12065172
TPA	12065249
TPA	12065249
CPA	12052834
-	-
-	-
CAVITY	CIRCUIT CODE
1	E1212 * 1803

J198	
VENDOR	AMP
HOUSING	172128-1
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	406D * 1323

P100	
VENDOR	AMP
HOUSING	1-967624-1
TERMINAL LOCK	967634-1
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	378RF1 * 1701
2	378LRF1 * 1701
3	378LF1 * 1701
4	378RFD * 1701
5	378LRD * 1701
6	378LFD * 1701
7	-
8	378RRI * 1701
9	378RRD * 1701
10	377RF- * 1701
11	377LR- * 1701
12	377LF- * 1701
13	377RF+ * 1701
14	377LR+ * 1701
15	377LF+ * 1701
16	-
17	377RR- * 1701
18	377RR+ * 1701

P113	
VENDOR	CARLING
HOUSING	999-16716-001
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	-
2	203 * 1502
3	-
4	-
5	440B * 1205
6	203C * 1502
7	29D * 1303
8	28A * 1304

J123B	
VENDOR	DEUTSCH
HOUSING	DT06-35-P006
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
A	-
B	-
C	-

P190		
VENDOR	PACKARD	
HOUSING	12146815	
SECONDARY LOCK	12146816	
SECONDARY LOCK	12146817	
COVER	15324032	
-	-	
CAVITY	CIRCUIT CODE	BUS BAR
A1	-	
A3	446 * 2109	
A4	BAT * 1107	WITH A6 & AB
A5	OPT 3676-XX-XXX	
A6	-	WITH A4 & AB
A7	-	
A8	-	AITH A4 & A6
A9	148S * 1405	
B1	GND * 1204	
B2	-	
B3	294B * 1706	
B4	439A * 1512	WITH B6 & BB
B5	-	
B6	-	WITH B4 & BB
B7	19A * 1526	
B8	-	WITH B4 & B6
B9	-	
C1	19A * 1526	
C3	439A * 1512	
C4	14A * 1106	
C5	14A * 1106	
C6	-	
C7	-	
C8	-	
C9	-	
D1	GND * 1204	
D2	-	
D3	19 * 1512	
D4	-	
D5	-	
D6	122 * 1322	
D7	122 * 1322	
D8	-	
D9	-	

P199	
VENDOR	AMP
HOUSING	172128-1
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	SPARE-5

J200	
VENDOR	AMP
HOUSING	172128-1
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	SPARE-6


P115	
VENDOR	PACKARD
HOUSING	12160280
SEAL	12110694
SECONDARY LOCK	12160494
PLUG	12129557
-	-
CAVITY	CIRCUIT CODE
A	E170 * 1803
B	E171 * 1803
C	E172 * 1803
D	E173 * 1803
E	E174 * 1803
F	-
G	-
H	-
J	-
K	-
L	E1123 * 1803
M	E180 * 1803
N	E003 * 1803
P	E008 * 1206
R	E002 * 1803
S	E180 * 1803
T	E033 * 1803
U	E008 * 1208
V	E009 * 1208
W	-

P123B	
VENDOR	DEUTSCH
HOUSING	DT04-3P
WEDGE	W3P-1939
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
A	J1939+ * 1603
B	J1939- * 1603
C	J1939S * 1603

P196	
VENDOR	AMP
HOUSING	173851-1
-	-
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	278A * 2102
2	278 * 2102
3	305 * 1106
4	315A * 2102
5	278A * 2102
6	278B * 2102
7	278B * 2102
8	315B * 2102
9	279 * 2102
10	315C * 2102
11	278C * 2102
12	278C * 2102

J201	
VENDOR	AMP
HOUSING	172128-1
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	SPARE-2

P191	
VENDOR	AMP
HOUSING	174463-1
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	443G * 2017
2	443 * 2017


	62204735 A
	HARNES, INTERNAL CAT C7, w/WABCO ABS, 3000 PTS/WTEC III TRANS.

QUANTITY	PART NUMBER	VENDOR	DESCRIPTION
36	0462-201-1631	DEUTSCH	SOCKET, SIZE 16, 16-18 AWG, GOLD, SOLID
6	1060-16-0622	DEUTSCH	PIN, SIZE 16, 16-20 AWG, STAMPED & FORMED
11	1062-12-0166	DEUTSCH	SOCKET, SIZE 12, 12-14 AWG, STAMPED & FORMED
74	1062-16-0122	DEUTSCH	SOCKET, SIZE 16, 16-18 AWG, STAMPED & FORMED
3	1062-16-0622	DEUTSCH	SOCKET, SIZE 16, 16-20 AWG, STAMPED & FORMED
55	114017	DEUTSCH	CAVITY PLUG, SIZE 12-16
4	114018	DEUTSCH	CAVITY PLUG, SIZE 8
2	114019	DEUTSCH	CAVITY PLUG, SIZE 4
16	12010293	PACKARD	CABLE SEAL, 14 AWG
21	12010300	PACKARD	CAVITY PLUG, 280 SERIES/ WEATHER PACK
2	12010717	PACKARD	CONN ASM., WEATHERPACK, 3 WAY, MALE
1	12010974	PACKARD	CONNECTOR ASM., WEATHERPACK, 4 WAY, MALE
1	12010986	PACKARD	CONNECTOR ASM., WEATHERPACK, 1 WAY MALE
3	12015193	PACKARD	CABLE SEAL, W/P 280, BLUE
69	12015323	PACKARD	CABLE SEAL, W/P, 280, 16-20 AWG
5	12015791	PACKARD	CONNECTOR ASSY, 1F, W/P, SEALED
1	12015792	PACKARD	CONNECTOR ASSY, 2F, W/P, SEALED
1	12015797	PACKARD	CONNECTOR ASSY, 4M, W/P, SEALED
3	12015798	PACKARD	CONNECTOR ASSY, 4M, W/P, SEALED
1	12020589	PACKARD	CONNECTOR ASSY, 2F, W/P 280 SEALED
1	12034446	PACKARD	CABLE SEAL, W/P, 280, 14 AWG
6	12045773	PACKARD	WIRE TERMINAL, METRI-PACK, MALE 18-20 AWG
2	12047948	PACKARD	TPA
13	12048074	PACKARD	TERM O F W/P 150 SN SEALED TANG
19	12048086	PACKARD	CABLE SEAL, W/P, 150, 16-20 AWG
3	12048254	PACKARD	WIRE TERMINAL, M/P 280, M, SEALED, 10 AWG
5	12048441	PACKARD	CABLE SEAL, W/P, 480, 16-20 AWG
1	12048442	PACKARD	CABLE SEAL, W/P, 480, 12-14 AWG
5	12048450	PACKARD	WIRE TERMINAL, M/P, 480, F, SEALED, 18-20 AWG
1	12048451	PACKARD	WIRE TERMINAL, M/P, 480, F, SEALED, 14-16 AWG
1	12052364	PACKARD	TPA
2	12052634	PACKARD	SECONDARY LOCK
1	12052848	PACKARD	CONNECTOR ASSY, 6F, W/P 150, SEALED
1	12052850	PACKARD	TPA
1	12065171	PACKARD	CONNECTOR ASSY, 1M, W/P 280 SEALED
2	12065249	PACKARD	TPA
1	12066860	PACKARD	CONNECTOR ASSY, 30F, JUNCTION
2	12066950	PACKARD	SECONDARY LOCK
40	12077411	PACKARD	WIRE TERMINAL, W/P, 280, F, SEALED, 16-18 AWG
3	12084201	PACKARD	WIRE TERMINAL, W/P, 280, F, SEALED, 20-22 AWG
8	12089040	PACKARD	WIRE TERMINAL, W/P, M, SEALED, 18-20 AWG
2	12089188	PACKARD	WIRE TERMINAL, W/P, F, SEALED, 18-20 AWG
2	12124075	PACKARD	WIRE TERMINAL, W/P, 150.2, F, 16-18 AWG
17	12124580	PACKARD	WIRE TERMINAL, WEATHERPACK, FEMALE, 14-16 AWG
3	12124582	PACKARD	WIRE TERMINAL, WEATHERPACK, MALE, 14-16 AWG
2	12129381	PACKARD	CABLE SEAL, W/P, 800, 10 AWG
2	12129383	PACKARD	WIRE TERMINAL, 800 MAXI, F, SEALED, 10 AWG
12	12129493	PACKARD	WIRE TERMINAL, W/P, 280, F, SEALED, 12-14 AWG
3	12162000	PACKARD	CONNECTOR ASSY, 2M, W/P 150, SEALED
2	12162144	PACKARD	CONNECTOR, METRI-PACK 150, 4F
1	12162197	PACKARD	CONNECTOR ASSY, 2F, W/P 150.2, SEALED
1	15300002	PACKARD	CONNECTOR ASSY, 2M, W/P 280, SEALED
8	15300014	PACKARD	TPA
7	15300027	PACKARD	CONNECTOR ASSY, 2F, W/P 280, SEALED
1	32004-A2	BUSSMAN	CONNECTOR, VEC INPUT, MALE, SEALED, BLACK
1	32004-TP2	BUSSMAN	TPA
1	32006-A22	BUSSMAN	CONNECTOR, VEC OUTPUT, MALE, SEALED, BLACK
1	32006-B22	BUSSMAN	CONNECTOR, VEC OUTPUT, MALE, SEALED, GRAY
1	32006-C22	BUSSMAN	CONNECTOR, VEC OUTPUT, MALE, SEALED, GREEN
1	32006-D22	BUSSMAN	CONNECTOR, VEC OUTPUT, MALE, SEALED, BLUE
4	32006-TP2	BUSSMAN	TPA
2	3-520116-2	AMP	FAST-ON INSULATED TERMINAL 14-16 AWG
1	61200175	TBB P/N	DIODE
6	61201312	TBB P/N	RING TERMINAL, #10 STUD, 14-16 AWG
1	61201316	TBB P/N	BUTT SPLICE, 14 AWG
6	61201340	TBB P/N	FEMALE PUSH-ON, 1/4" x 1/32", 90 DEG FLAG, 14-16
1	61201360	TBB P/N	BUTT SPLICE 18 AWG
1	61201370	TBB P/N	RING TERMINAL, 3/8" STUD, 18-20 AWG
1	638082-1	AMP	CONNECTOR, ENDEEL SHROUD
1	776241-1	AMP	CONNECTOR, BODY 70 CAVITIES
1	DRB16-102SAE-L018	DEUTSCH	CONNECTOR, DRB SERIES, 102 PIN, PLUG
2	DT04-3P-E008	DEUTSCH	CONNECTOR ASM., RECEPTACLE
1	DT06-3S-P006	DEUTSCH	CONNECTOR ASM., PLUG
2	DT06-6S	DEUTSCH	CONNECTOR, PLUG, 6P
2	W3P-1939	DEUTSCH	WEDGE RECEPT, J1939 WEDGE
2	W6S	DEUTSCH	WEDGE PLUG
1	WB-51SAL	DEUTSCH	PLUG WEDGE LOCK, DRB SERIES, 102 PIN, LEFT
1	WB-51SAR	DEUTSCH	PLUG WEDGE LOCK, DRB SERIES, 102 PIN, RIGHT

J1939 TWISTED PAIR CABLE SPECIFICATIONS		
TYPE - COMMUNICATION, CONTROL, DATA BUS CABLE, (1) TWISTED PAIR, 2 CONDUCTOR (STRANDED) W/ DRAIN WIRE, 100% SHIELD COVERING, 300V - 600V RATING, 90°C - 150°C TEMP RATING FOR SAE J1939 USAGE, IMPEDANCE AT 120 Ω ± 12 Ω CONDUCTOR NO. 1 (GREEN), CONDUCTOR NO. 2 (YELLOW)		
AWG.	APPROVED VENDORS OF CABLE	PART NUMBER
20	ANIXTER RAYCHEM/STAF-CD CHAMPLAIN	- - -

BILL OF MATERIAL			
QUANTITY	PART NUMBER	VENDOR	DESCRIPTION
1	WB-51SAL	DEUTSCH	PLUG WEDGE LOCK, DRB SERIES, 102 PIN, LEFT
1	WB-51SAR	DEUTSCH	PLUG WEDGE LOCK, DRB SERIES, 102 PIN, RIGHT

COLOR	ABBR
WHITE	W
BLACK	BK
BLACK-WHITE	BK-W
BLUE DK	DKBL
BLUE LT	LTBL
BLUE LT-WHITE	LTBL-W
BROWN	BR
GRAY	GY
GREEN DK	DKG
GREEN DK-WHITE	DKG-W
GREEN LT	LTG
GREEN LT-WHITE	LTG-W
ORANGE	O
PINK	PK
PINK-WHITE	PK-W
PURPLE	PRP
PURPLE-WHITE	PRP-W
RED	R
RED-WHITE	R-W
TAN	T
TAN-WHITE	T-W
YELLOW	Y
YELLOW-WHITE	Y-W
SHIELD	SHIELD

	62204749 A
HARNESS, EXTERNAL CHASSIS/ENG. CAT C7	

**TRANSMISSION
SECTION**

J110	
VENDOR	DEUTSCH
HOUSING	DT04-2P-E003
WEDGE	W2P
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
1	PLUG
2	PLUG

P223	
VENDOR	PACKARD
HOUSING	12015795
-	-
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
A	E009 # 1206
B	262B # 1805
C	E003 # 1803

P117	
VENDOR	PACKARD
HOUSING	12124107
TPA	12052850
CPA	12020833
PLUG	12059168
-	-
CAVITY	CIRCUIT CODE
A	E030 # 1803
B	E030 # 1803
C	E150 # 1406
D	PLUG
E	E008 # 1206
F	262B # 1805

J224	
VENDOR	PACKARD
HOUSING	15300002
TPA	15300014
PLUG	12010300
-	-
-	-
CAVITY	CIRCUIT CODE
A	262K # 1805
B	262J # 1805

P133	
VENDOR	PACKARD
HOUSING	15300027
TPA	15300014
PLUG	12010300
-	-
-	-
CAVITY	CIRCUIT CODE
A	262K # 1805
B	262J # 1805

J225	
VENDOR	PACKARD
HOUSING	15300002
TPA	15300014
PLUG	12010300
-	-
-	-
CAVITY	CIRCUIT CODE
A	262K2 # 1805
B	262J2 # 1805

P134	
VENDOR	PACKARD
HOUSING	15300027
TPA	15300014
PLUG	12010300
-	-
-	-
CAVITY	CIRCUIT CODE
A	262K2 # 1805
B	262J2 # 1805

J226	
VENDOR	PACKARD
HOUSING	15300002
TPA	15300014
PLUG	12010300
-	-
-	-
CAVITY	CIRCUIT CODE
A	262K3 # 1805
B	262J3 # 1805

P135	
VENDOR	PACKARD
HOUSING	15300027
TPA	15300014
PLUG	12010300
-	-
-	-
CAVITY	CIRCUIT CODE
A	262K3 # 1805
B	262J3 # 1805

J287	
VENDOR	DEUTSCH
HOUSING	DT06-3S-P032
WEDGE	W3S-1939
-	-
-	-
-	-
CAVITY	CIRCUIT CODE
A	J1939+ # 1603
B	J1939- # 1603
C	J1939S # 1603

D
-
C
-
B
-
A

D
-
C
-
B
-



**HARNES, EXTERNAL
BENDIX ABS, 3000/WTEC
III TRANSMISSION**

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