

KENWORTH WIRING DIAGRAMS

T4, T6 & T9 CONVENTIONAL MODELS

DESCRIPTION	DRAWING No	PAGE. REV
Master Wiring Diagram (Conventional Models)	P94-1730	2 pages 2 Rev. -
ABS, Bendix Gen 6 ABS/ATC/HSA/ESP/ACB/TRM		
ABS, Trailer ABS & Active Cruise Braking	P94-1857	5 Page 4 Rev. -
Air Dryer, Horn & Wipers	P94-1899	2 Pages 9 Rev. -
Air Switch Control, Diff & Interaxle Lock & Susp Air Dump	P94-1901	1 Page 11 Rev. -
Ashdown Battery Isolation Switch	P94-1902	3 Pages 12 Rev. -
Brake pad Wear Indicator (Meritor Disc Brakes)	P94-1692	2 Pages 15 Rev. B
CD/Tuner/CB Radio/Mobile Phone/MP3 Interface	P94-1907	3 Pages 17 Rev. -
Central Locking, Keyless Entry & Dome Lights	P94-1953	3 Pages 20 Rev. -
Charging & Starting, Battery & Alternator	P94-1919	4 Pages 23 Rev. -
Cruise Brake KWSW4 Controller	P94-1785	1 Page 27 Rev. -
Defroster Fan, Door Controls Power Windows, Mirror Control		
Mirrors Heat, Power Socket, Auxiliary/Seat Base	P94-1951	3 Pages 28 Rev. -
Door Open Park Brake OFF Warning Light	P94-1914	1 Page 31 Rev. -
Engine, ISX ADR 80/03	P94-1924	4 Pages 32 Rev. -
Engine, ISX ADR 80/02	P94-1978	4 Pages 36 Rev. -
Engine, ISX/Signature ADR 80/00	P94-1993	4 Pages 40 Rev. -
Engine ISM11e5 (T403)	P94-1997	5 Pages 44 Rev. -
Gauges, Warning Lights and Alarms	P94-1915	4 Pages 49 Rev. -
Gearbox, Eaton Gen 3 AutoShift/UltraShift Plus	P94-1862	2 Pages 53 Rev. -
Gearbox Low Oil Warning	P94-1640	1 Page 55 Rev. -
Heater/Air Conditioner, Delphi K1	P94-1895	4 Pages 56 Rev. B
J1939-15 Canbus Overview	P94-1913	7 Pages 60 Rev. -
Low Fuel Alarm	P94-1937	1 Page 67 Rev. -
Low Axle Oil Pressure Warning	P94-1903	1 Page 68 Rev. -
Lumens Bluetooth System	P94-1848	1 Page 69 Rev. -
Power Mirrors (Traditional Doors)	P94-1987	1 Page 70 Rev. -
Trailer Air Enable	P94-1921	1 Page 71 Rev. -
Trailer Lighting (Narva/Phillips)	P94-1922	1 Page 72 Rev. -
Trailer Power Distribution Box (Bulkhead Connectors) Narva	P94-1995	1 Page 73 Rev. A
Trailer Power Distribution Box (Bulkhead Connectors) Phillips	P94-2000	1 Page 74 Rev. -
Truck Lighting, Dome Lights	P94-1953	3 Pages 75 Rev. -
Two Speed Axles	P94-1959	1 Page 78 Rev. -

WIRING COLOURS

B = Black E = Grey G = Green F = Light Green L = Blue N = Brown O = Orange
 P = Pink R = Red T = Tan K = Light Blue Y = Yellow U = Purple (Violet)
 Example L/E = Blue Base with Grey Stripe

Note: This issue of wiring diagrams contains information on systems currently in production; out-of-date and seldom used systems have been omitted. Updates are published regularly. For new systems released during the year contact the Customer Service Department. All diagrams are valid for vehicles built from January 2011 or until superceded.

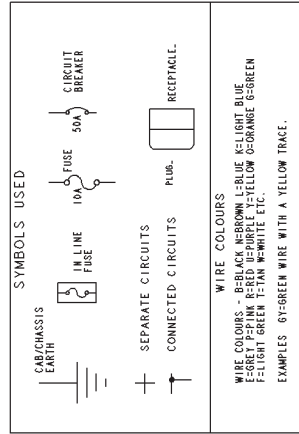
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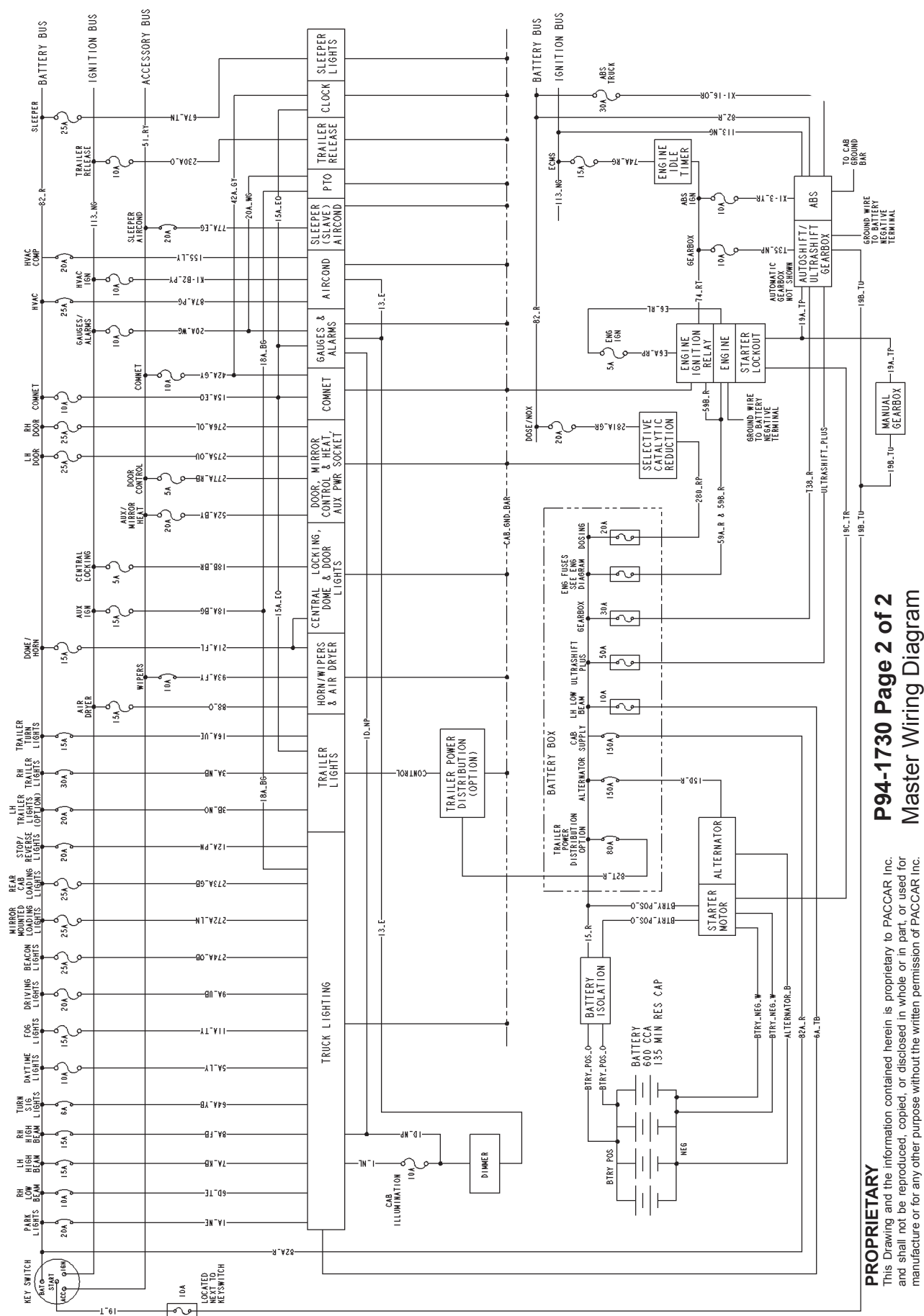
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P94-1730 Page 1 of 2
Master Wiring Diagram

	DESCRIPTION	1349	1403 1409 1409SAB	1659 C509	FROM
ABS	BENDIX GEN 8 ABS/ATC/ESA/ESP/ABS/TRM ANTI LOCK BRAKING	P94-1837	P94-1837	P94-1837	AUG 2010
	TRAILER ABS	P94-1837	P94-1837	P94-1837	AUG 2010
AIRCONDITIONING	DELPHI KI HVAC	P94-1895-1033	P94-1895-1001	P94-1895-002	AUG 2010
AIR DRYER	SINGLE AND DUAL AIR DRYERS	P94-1889	P94-1889	P94-1889	AUG 2010
AIR SWITCH CONTROL ASSY	DIFF LOCK, INTERAXLE, CROSS WHEEL, SUSPENSION DUMP	P94-1901	P94-1901	P94-1901	AUG 2010
		P94-1959	P94-1959	P94-1959	AUG 2010
	DIFF LOCK, INTERAXLE, CROSS WHEEL, SUSPENSION DUMP	P94-1901	P94-1901	P94-1901	AUG 2010
AXLE LOW OIL PRESSURE	AXLE LOW OIL PRESSURE WARNING	P94-1903	P94-1903	P94-1903	AUG 2010
BATTERY ISOLATION	ASHDOWN LED INDICATOR ISOLATION SWITCH	P94-1902	P94-1902	P94-1902	AUG 2010
BLUETOOTH	LUMENS BLUETOOTH SYSTEM	P94-1848	P94-1848	P94-1848	AUG 2010
BRAKE PAD WEAR	MERTON DISC BRAKES PAD WEAR INDICATOR	P94-1892	P94-1892	P94-1892	AUG 2010
CENTRAL LOCKING, DOME AND DOOR LIGHTS	DELPHI KEYLESS ENTRY, DOOR AND DOME LIGHTS	P94-1953-0033	P94-1953-001	P94-1953-002	AUG 2010
CHARGING	BATTERY CHARGING & ALTERNATOR	P94-1919-002	P94-1919-001	P94-1919-001	AUG 2010
COMMUNICATION EQUIPMENT (COMNET)	CLARION CD/TUNER, CB RADIOS & MOBILE PHONE	P94-1907-002	P94-1907-002	P94-1907-002	AUG 2010
	VPO TUNER, MP3 INTERFACE, CB RADIO & MOBILE PHONE	P94-1907-001	P94-1907-001	P94-1907-001	AUG 2010
CRUISE BRAKE KMSW4 CONTROLLER	ENGINE BRAKE AND CRUISE CONTROLLER FOR STALK SWITCHES	P94-1785	P94-1785	P94-1785	AUG 2010
DEFROSTER FAN	CAB DEFROSTING FAN	P94-1951	P94-1951	P94-1951	AUG 2010
DIFF LOCK	DIFF LOCK, INTERAXLE, CROSS WHEEL, SUSPENSION DUMP	P94-1901	P94-1901	P94-1901	AUG 2010
DOOR CONTROLS	POWER WINDOWS	P94-1951	P94-1951	P94-1951	AUG 2010
	CENTRAL LOCKING	P94-1951	P94-1951	P94-1951	AUG 2010
	MIRROR CONTROL AND MIRROR HEATER	P94-1951	P94-1951	P94-1951	AUG 2010
ENGINE	CUMMINS ISX EGR ADR 80/03	N/A	P94-1924-001	P94-1924-002	AUG 2010
	CUMMINS ISX EGR ADR 80/02	N/A	P94-1978-001	P94-1978-002	AUG 2010
	CUMMINS ISX ADR 80/20	N/A	P94-1993	P94-1993	AUG 2010
	CUMMINS ISL15	P94-1984	N/A	N/A	AUG 2010
	CUMMINS ISM115	P94-1991	N/A	N/A	FEB 2011
FUEL	LOW FUEL ALARM	P94-1937	P94-1937	P94-1937	AUG 2010
GAUGES	GAUGES	P94-1980	P94-1915	P94-1979	AUG 2010
GEARBOX	EATON 6E3 AUTOSHIFT & ULTRASHTIFT PLUS	P94-1862-001	P94-1862-002	P94-1862-002	AUG 2010
	ALLISON GEN 4/3X MY09 AUTOMATIC	P94-1983	N/A	N/A	AUG 2010
HORN	HORN	P94-1899	P94-1899	P94-1899	AUG 2010
ENGINE IDLE TIMER	BOGARD - SEE ENGINE DIAGRAMS				
J1939 DATA BUS NETWORK	J1939 CAN DATA BUS NETWORK	P94-1913	P94-1913	P94-1913	AUG 2010
PARK BRAKE OFF WARNING	DOOR OPEN PARK BRAKE OFF WARNING	P94-1914	P94-1914	P94-1914	AUG 2010
POWER SOCKET	AUX POWER SOCKET (DASH MOUNTED)	P94-1951	P94-1951	P94-1951	AUG 2010
POWER TAKE OFF	CHESEA POWER TAKE OFF	P94-1981	N/A	N/A	AUG 2010
POWER WINDOWS, POWER MIRRORS AND MIRROR HEAT	POWER WINDOWS	P94-1951	P94-1951	P94-1951	AUG 2010
	MOTO & AERO MIRRORS, MIRROR HEAT & MIRROR MARKER LIGHTS	P94-1951	P94-1951	P94-1951	AUG 2010
	TRADITIONAL DOORS	N/A	P94-1987	P94-1987	AUG 2010
STARTING	ELECTRIC START (EATON GEARBOX)	P94-1919-002	P94-1919-001	P94-1919-001	AUG 2010
	ELECTRIC START (ALLISON AUTOMATIC GEARBOX)	P94-1919-003	N/A	N/A	AUG 2010
	AIR START	N/A	P94-1919-004	P94-1919-004	AUG 2010
SUSPENSION AIR DUMP	SUSPENSION AIR DUMP	P94-1901	P94-1901	P94-1901	AUG 2010
TRAILER AIR ENABLE SYSTEM	TRAILER BRAKE RELEASE	P94-1921	P94-1921	P94-1921	AUG 2010
TRAILER LIGHTING	TRAILER LIGHTS MARVA/PHILLIPS CONNECTIONS	P94-1922	P94-1922	P94-1922	AUG 2010
TRUCK LIGHTING	ALL TRUCK LIGHTS	P94-1879	P94-1923	P94-2003	AUG 2010
	DOME LIGHTS	P94-1953-003	P94-1953-001	P94-1953-002	AUG 2010
	MODULAR SLEEPER 36 INCH	N/A	P94-1923	P94-2003	AUG 2010
	MODULAR SLEEPER 50 INCH	N/A	P94-1923	P94-2003	AUG 2010
TRAILER POWER DISTRIBUTION BOX	MARVA AS3513	P94-1985	P94-1985	P94-1985	AUG 2010
	PHILLIPS 3549	P94-2000	P94-2000	P94-2000	AUG 2010
WARNING	ALL WARNING LIGHTS AND ALARMS	P94-1980	P94-1915	P94-1979	AUG 2010
WIPERS	WIPERS	P94-1899	P94-1899	P94-1899	AUG 2010

	VALUE	MIN WIRE SIZE (mm ²)	MIN WIRE SIZE (AWG)
CIRCUIT BREAKER	10A	0.8	16
	20A	2	14
	30A	5	12
FUSE	3A (VIOLET)	0.3	
	5A (BLUE)	0.3	
	7.5A (RED)	0.5	20
	10A (GREEN)	0.5	20
	15A (BLUE)	0.8	16
	20A (YELLOW)	1.25	14
WIRE SIZES & RATINGS (CONTINUOUS LOAD) PVC AT 80°C 8XL AT 120°	30A (GREEN)	2	12
	WIRE SIZE (mm ²)	WIRE TYPE V165 (PVC)	WIRE TYPE 8XL IN CAB/OUTSIDE CAB USE
	0.3	IN CAB ONLY	
	0.5	5A	
	0.8	7.5A	8.5A
	1.25	15A	
	2	30A	10A
	5	75A	
	12.5	9A	14.5A
	20	12A	20.5A
	31A	23A	27.5A

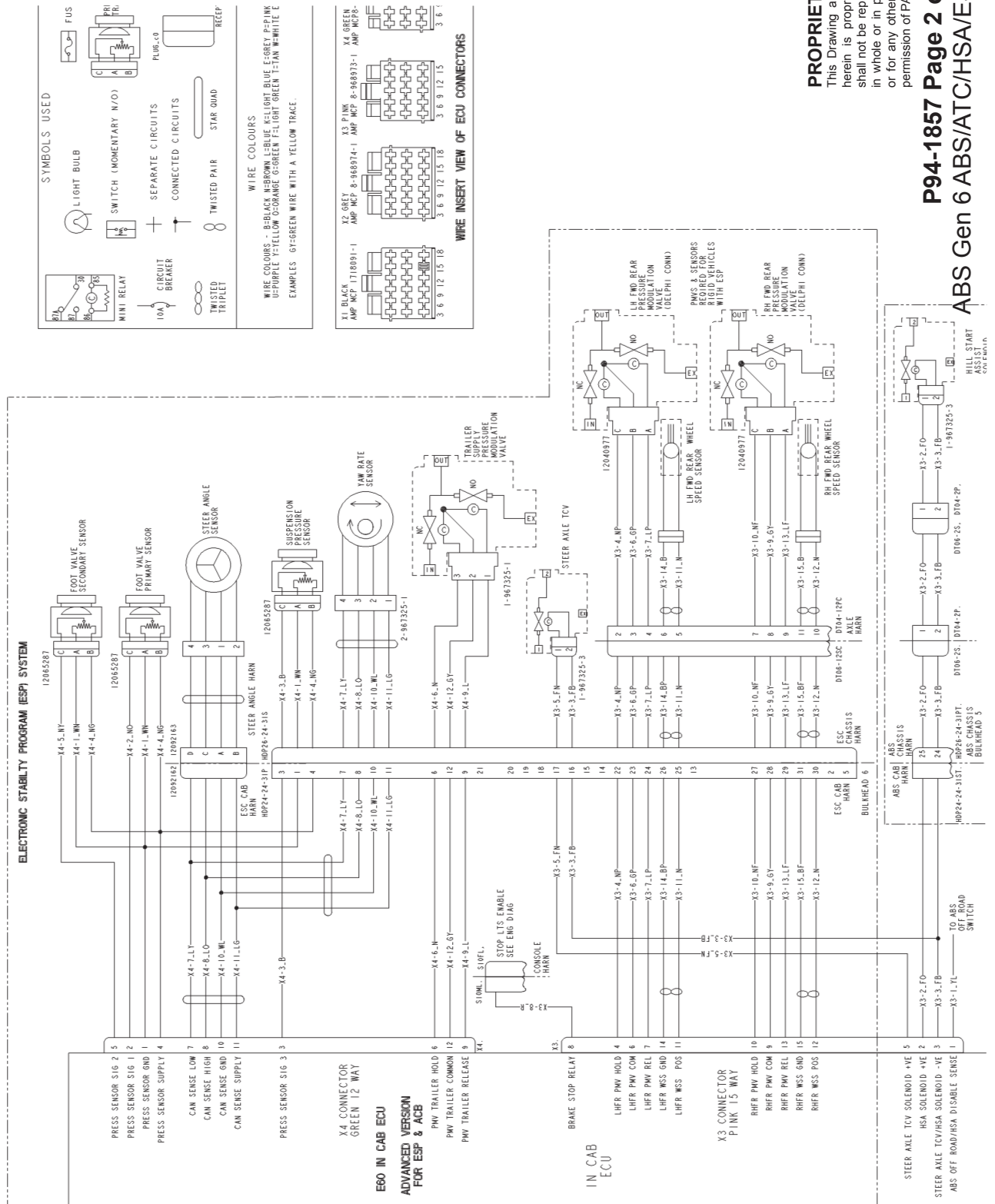




MAINTENANCE MANUAL



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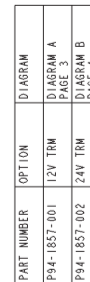


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ABS Gen 6 ABS/ATC/HSA/ESP/ACB/TRM



ABS Gen 6 ABS/ATC/HSA/ESP/ACB/TRM

TRAILER FAULT
INDICATION CIRCUIT

ABS Gen 6 ABS/ATC/HSA/ESP/ACB/TRM

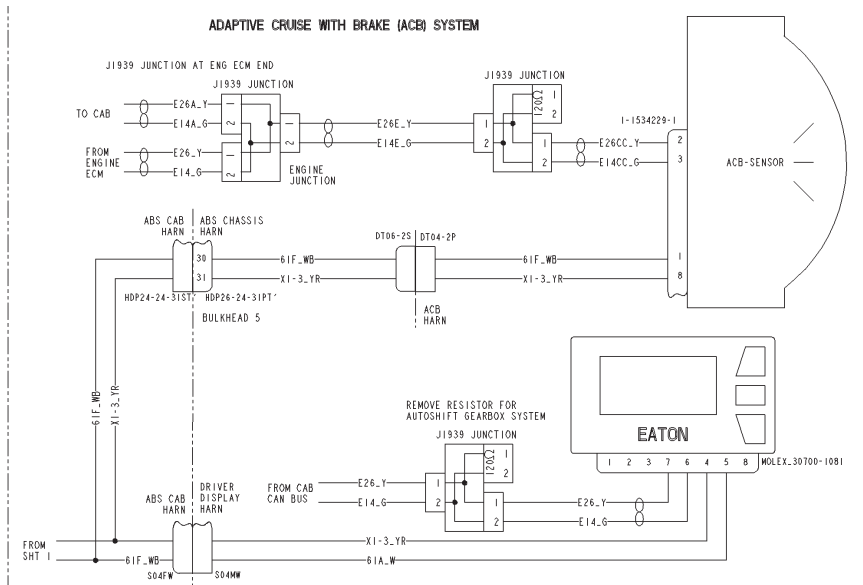


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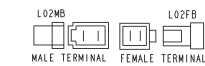
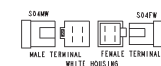
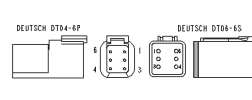
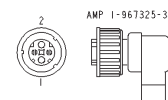
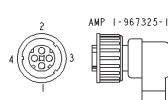
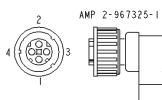
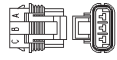
ABS Gen 6 ABS/ATC/HSA/ESP/ACB/TRM



PACKARD 12065287



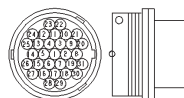
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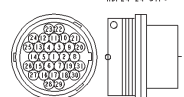
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DEUTSCH HDP26-24-31S*



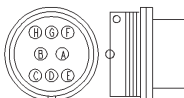
DEUTSCH HDP24-24-31P*



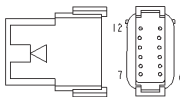
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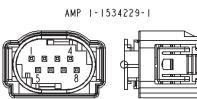
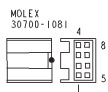
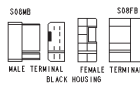
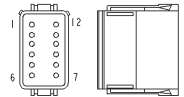
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DEUTSCH DT04-12PB



DEUTSCH DT06-12SB

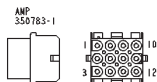
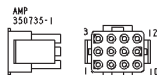
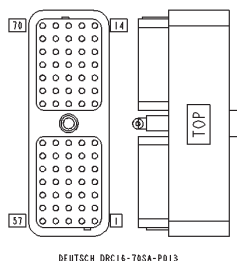
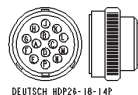
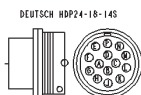
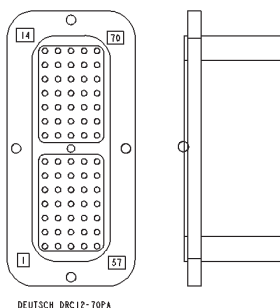
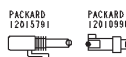


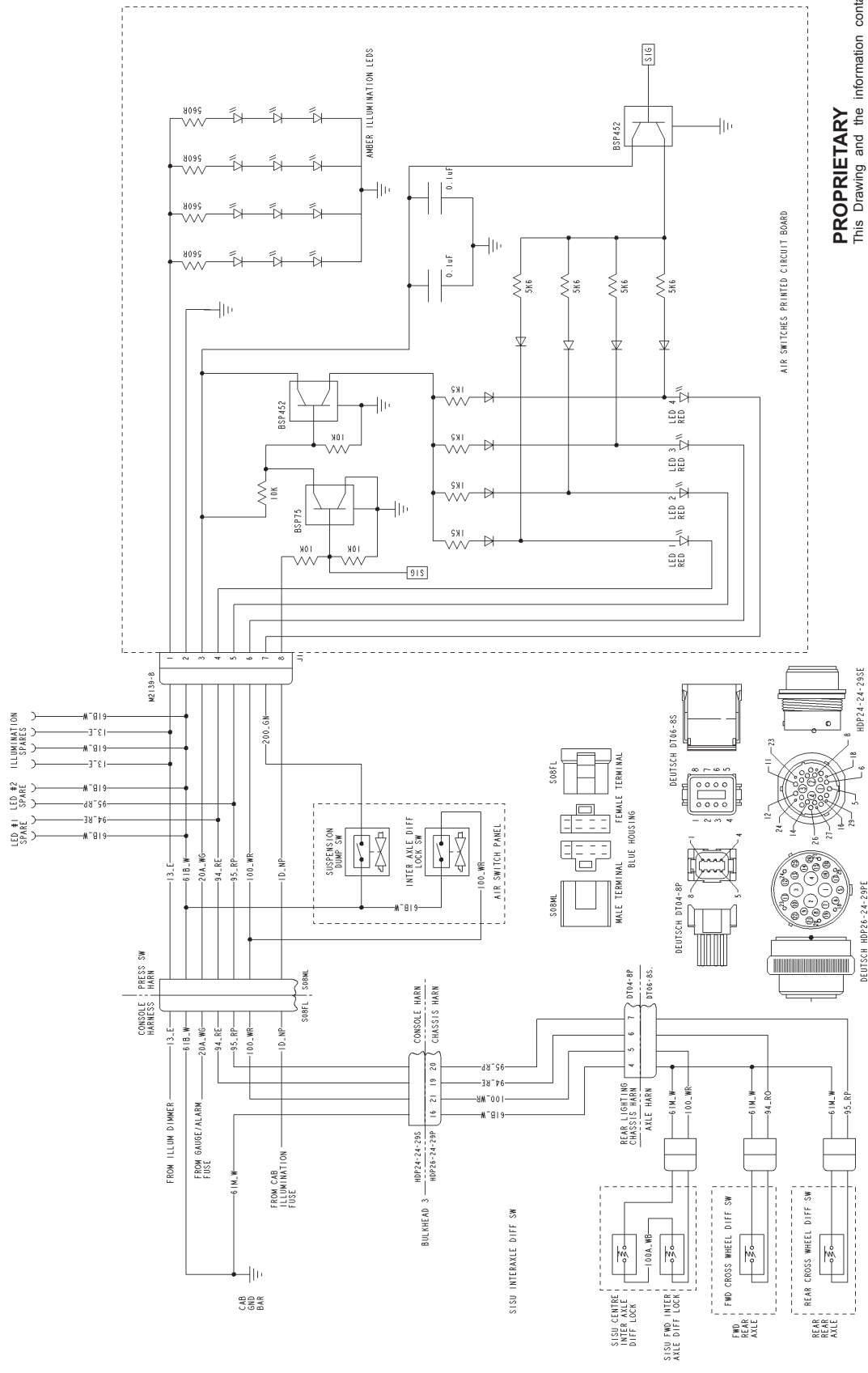


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Air Dryer, Horn & Wipers




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Air Switch Controls, Diff and Interaxle Locks & Susp Air Dump

SYMBOLS USED				WIRE COLOURS			
	SEPARATE CIRCUITS		EARTH OR GND		AIR/ELEC SW ELEC-NO AIR-NC		SWITCH NORMALLY OPEN
	PLUG		RECEPTACLE		0.1uF CAPACITOR		TRANSISTOR
	RESISTOR		LIGHT EMITTING DIODE		DIODE	WIRE COLOURS - B-BLACK W-BROWN L-BLUE F-LIGHT BLUE R-RED Y-YELLOW G-GREEN P-PINK R-RED U-ULTRAVIOLET F-LIGHT GREEN I-IVAN W-WHITE ETC. EXAMPLES G-Y-GREEN WIRE WITH A YELLOW TRACE.	

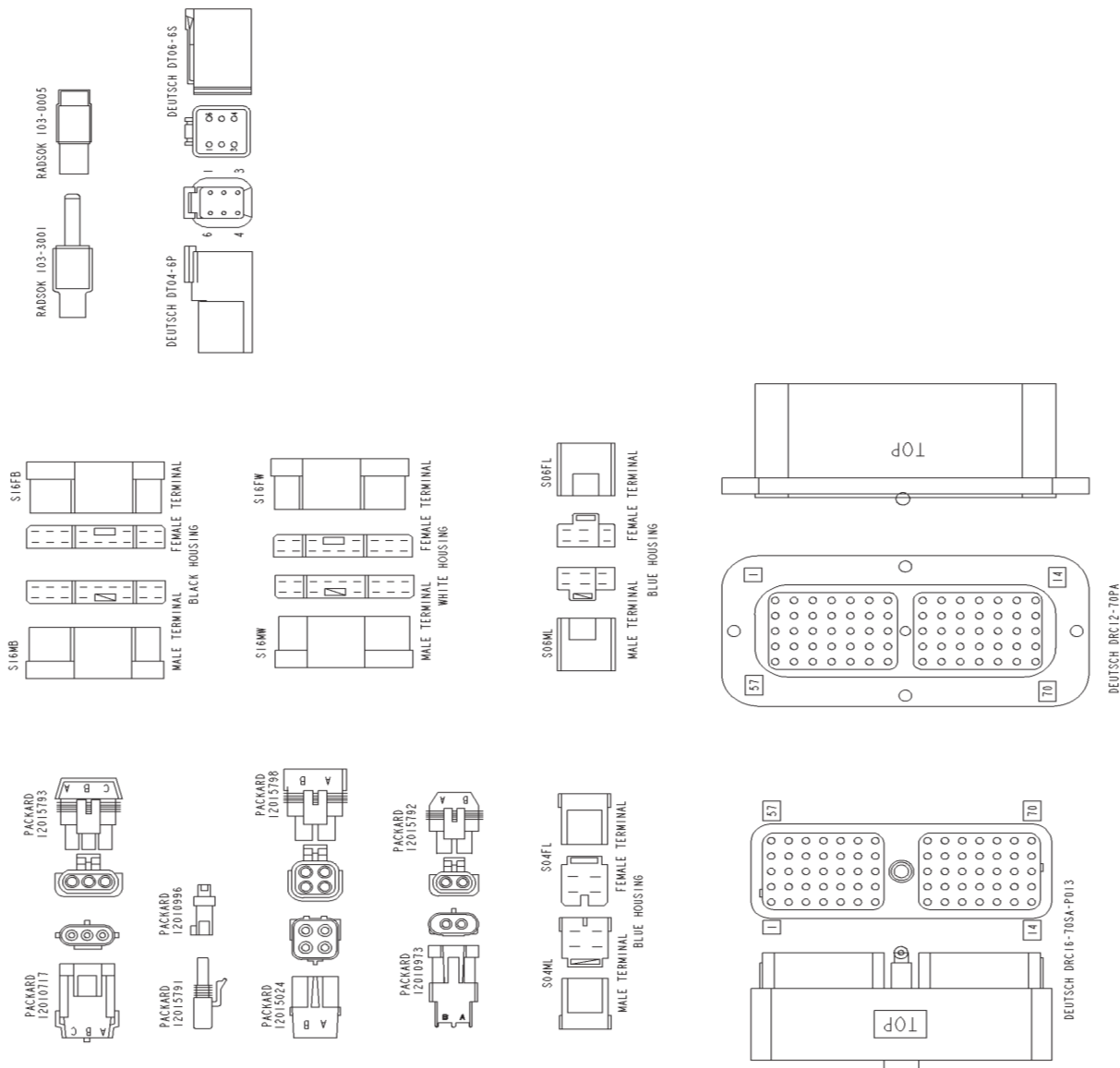


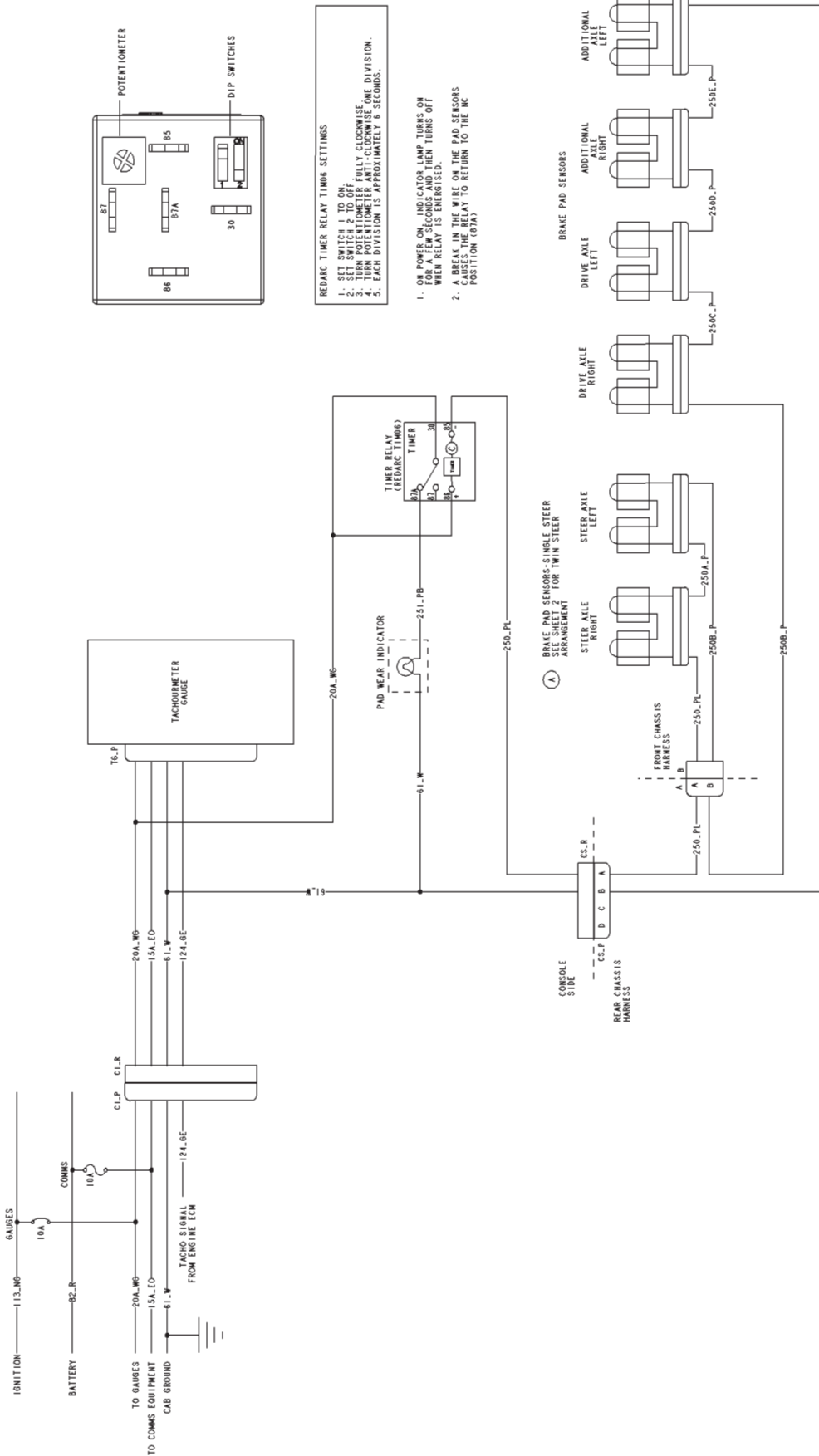


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Battery Isolation Switch





- REDARC TIMER RELAY TIMING SETTINGS**
1. SET SWITCH 1 TO ON
 2. SET SWITCH 2 TO OFF
 3. TURN POTENTIOMETER FULLY CLOCKWISE (ONE DIVISION)
 4. TURN POTENTIOMETER FULLY COUNTERCLOCKWISE (ONE DIVISION)
 5. TURN POTENTIOMETER APPROXIMATELY 6 SECONDS.
1. ON POWER ON INDICATOR LAMP TURNS ON FOR A FEW SECONDS AND THEN TURNS OFF WHEN RELAY IS ENERGISED.
 2. A BREAK IN THE WIRE ON THE PAD SENSORS CAUSES THE RELAY TO RETURN TO THE NC POSITION (87A).

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P94-1692 Page 1 of 2 Brake Pad Wear Indicator

WIRE COLOURS

WIRE COLOURS - BLACK, BROWN, LIGHT BLUE, BLUE, GREY, PINK, RED, PURPLE, YELLOW, ORANGE, LIGHT GREEN, TEAL, WHITE, ETC.

EXAMPLES: 01-GREEN WIRE WITH A YELLOW TRACE.

WIRE COLOURS

WIRE COLOURS - BLACK, BROWN, LIGHT BLUE, BLUE, GREY, PINK, RED, PURPLE, YELLOW, ORANGE, LIGHT GREEN, TEAL, WHITE, ETC.

EXAMPLES: 01-GREEN WIRE WITH A YELLOW TRACE.

TIMER RELAY

LIGHT BULB

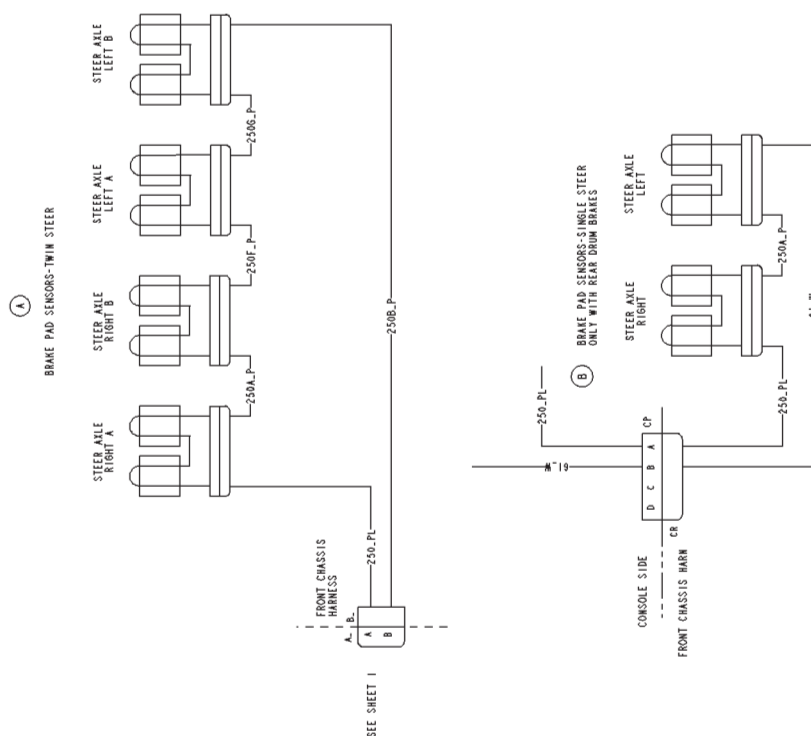
BRAKE PAD SENSORS
(PART OF BRAKE ASSEMBLY)

PLUG

RECEPTACLE

SEPARATE CIRCUITS

CONNECTED CIRCUITS



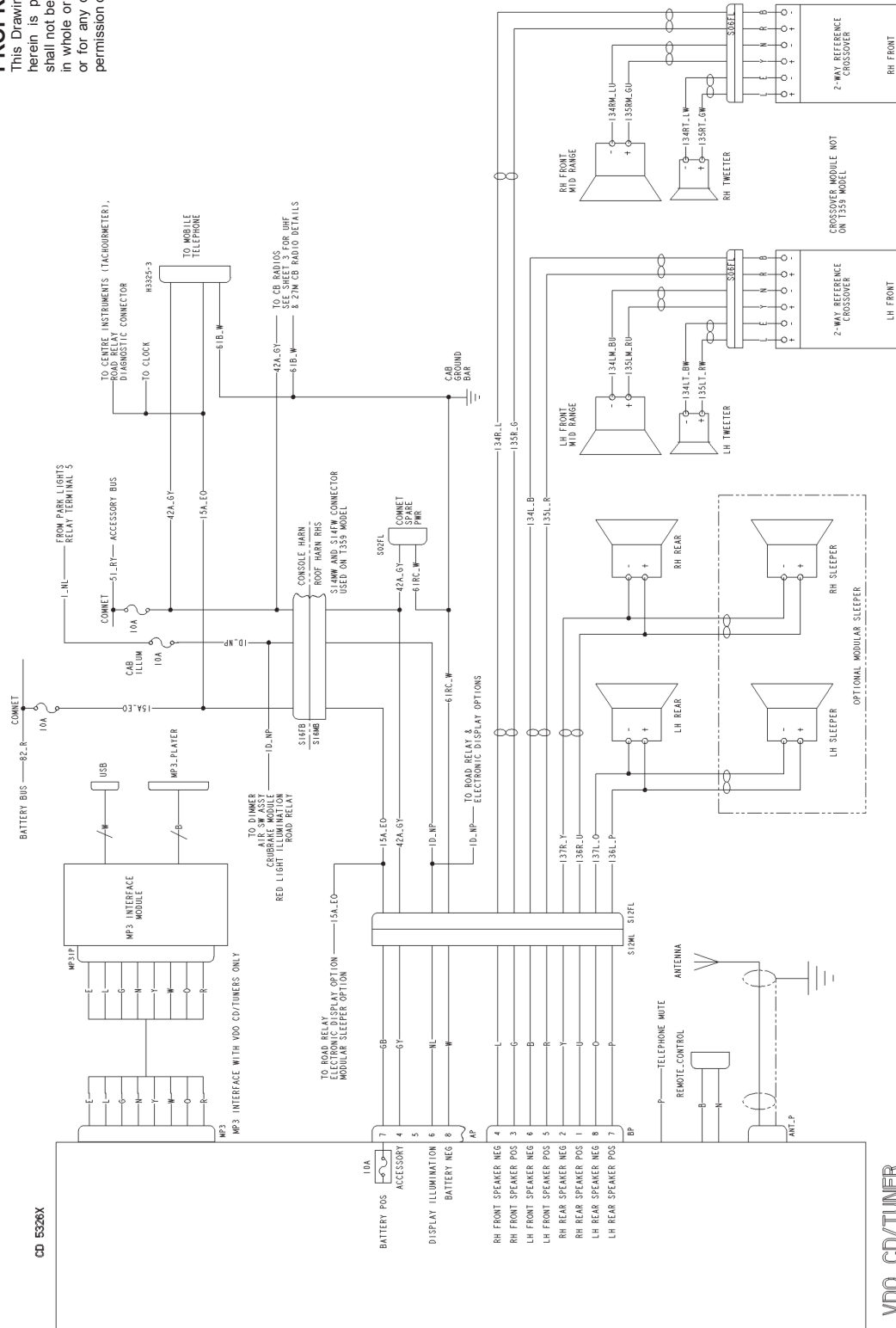
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Brake Pad Wear Indicator

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VDO CD/TUNER

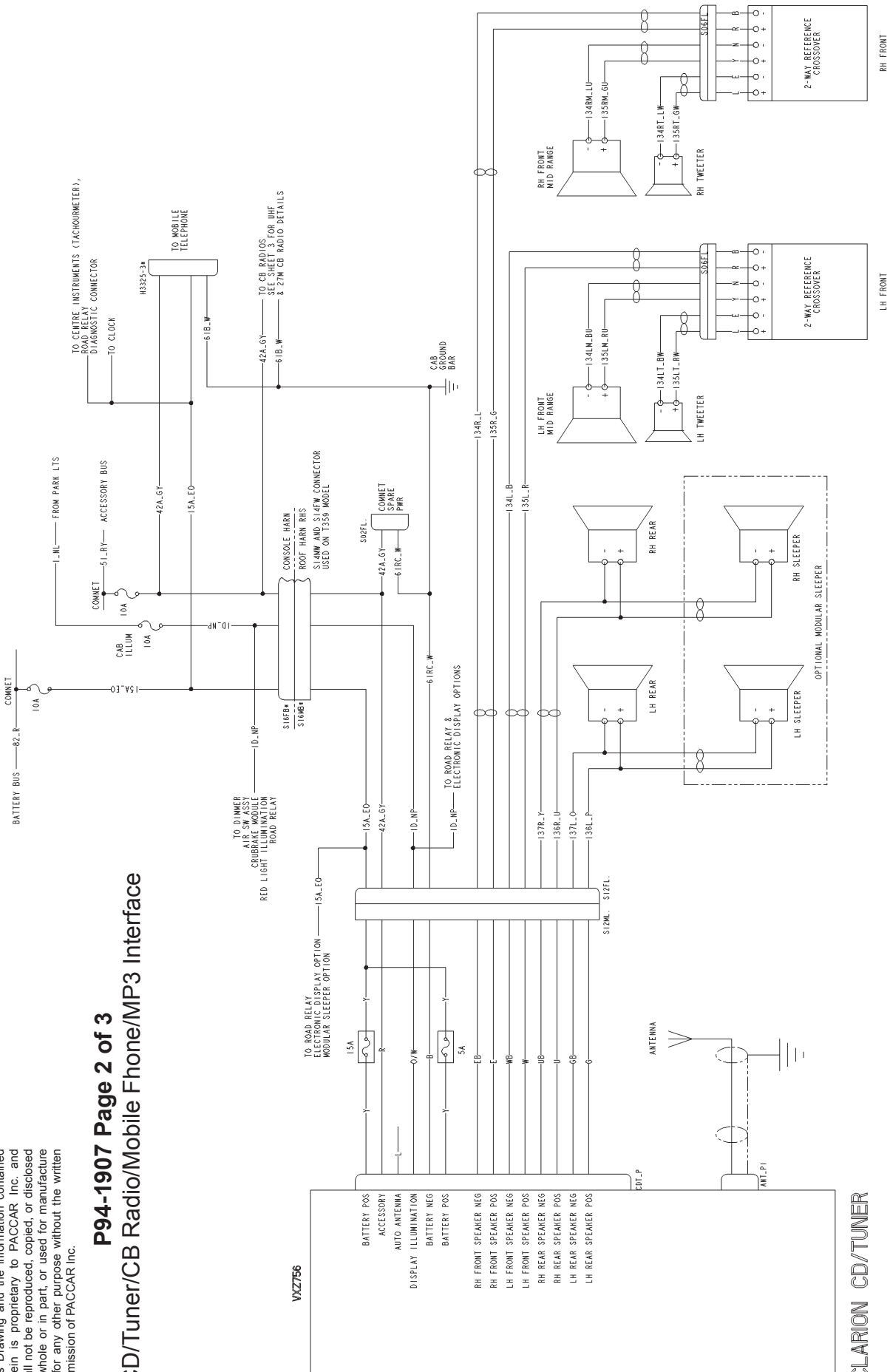
P94-1907-001

SYMBOLS USED		WIRE COLOURS	
+	SEPARATE CIRCUITS	WIRE COLOURS -	B-BLACK, N-BROWN, L-BLUE, K-LIGHT BLUE, EG-GREY, P-PINK, RED, U-PURPLE, Y-YELLOW, G-GREEN, F-LIGHT GREEN, T-TAN, W-WHITE, ETC.
+	CONNECTED CIRCUITS	EXAMPLES	G-Y-GREEN WIRE WITH A YELLOW TRACE.
+	RECEPTACLE		
+	FUSE		
+	IN LINE FUSE		
+	CIRCUIT BREAKER		
+	CAB EARTH		
+	SPEAKER		
+	MICROPHONE		

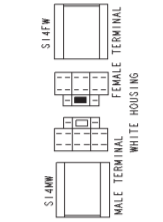
P94-1907 Page 1 of 3
CD/Tuner/CB Radio/Mobile Phone/MP3 Interface

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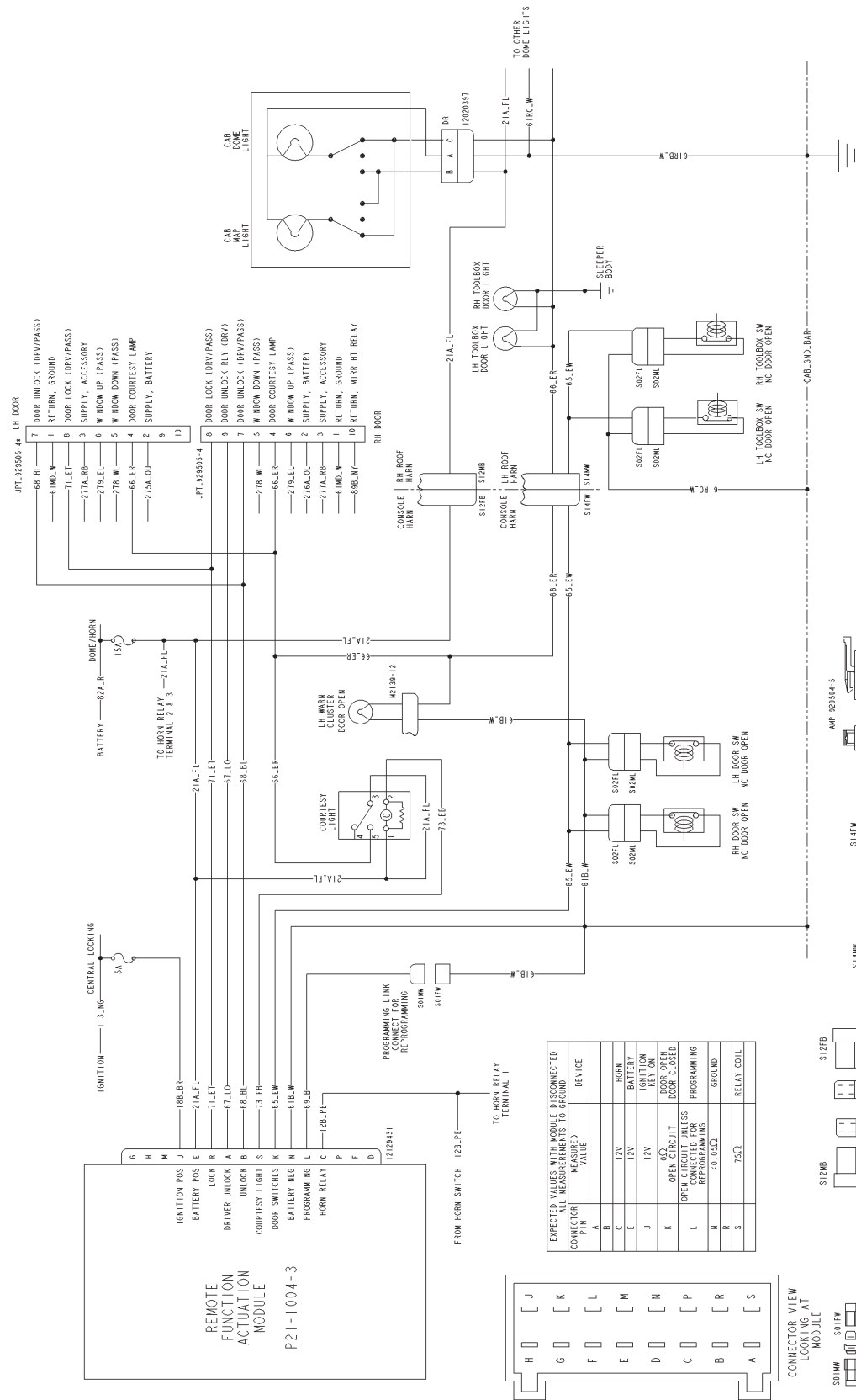
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CD/Tuner/CB Radio/Mobile Phone/MP3 Interface



CLARION CD/TUNER



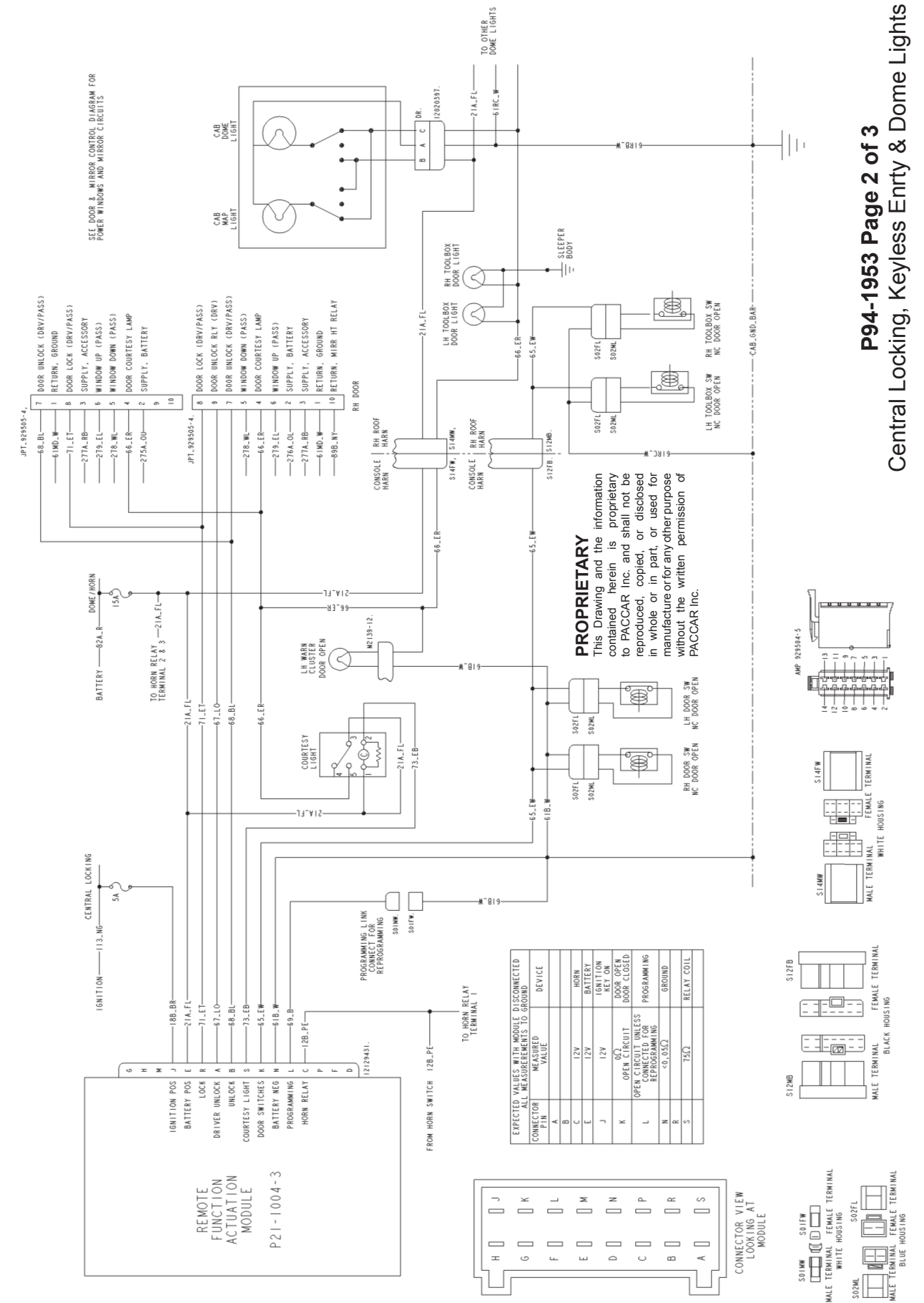
CD/Tuner/CB Radio/Mobile Phone/MP3 Interface



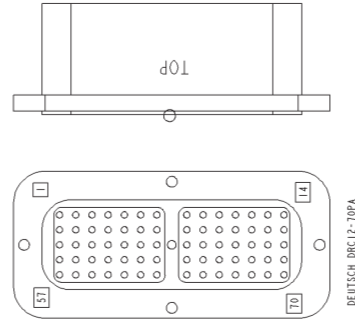
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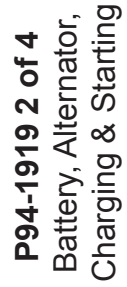
Central Locking, Keyless Entry & Dome Lights

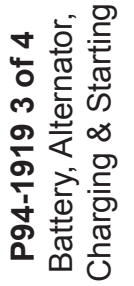


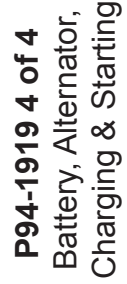




P94-1919 1 of 4

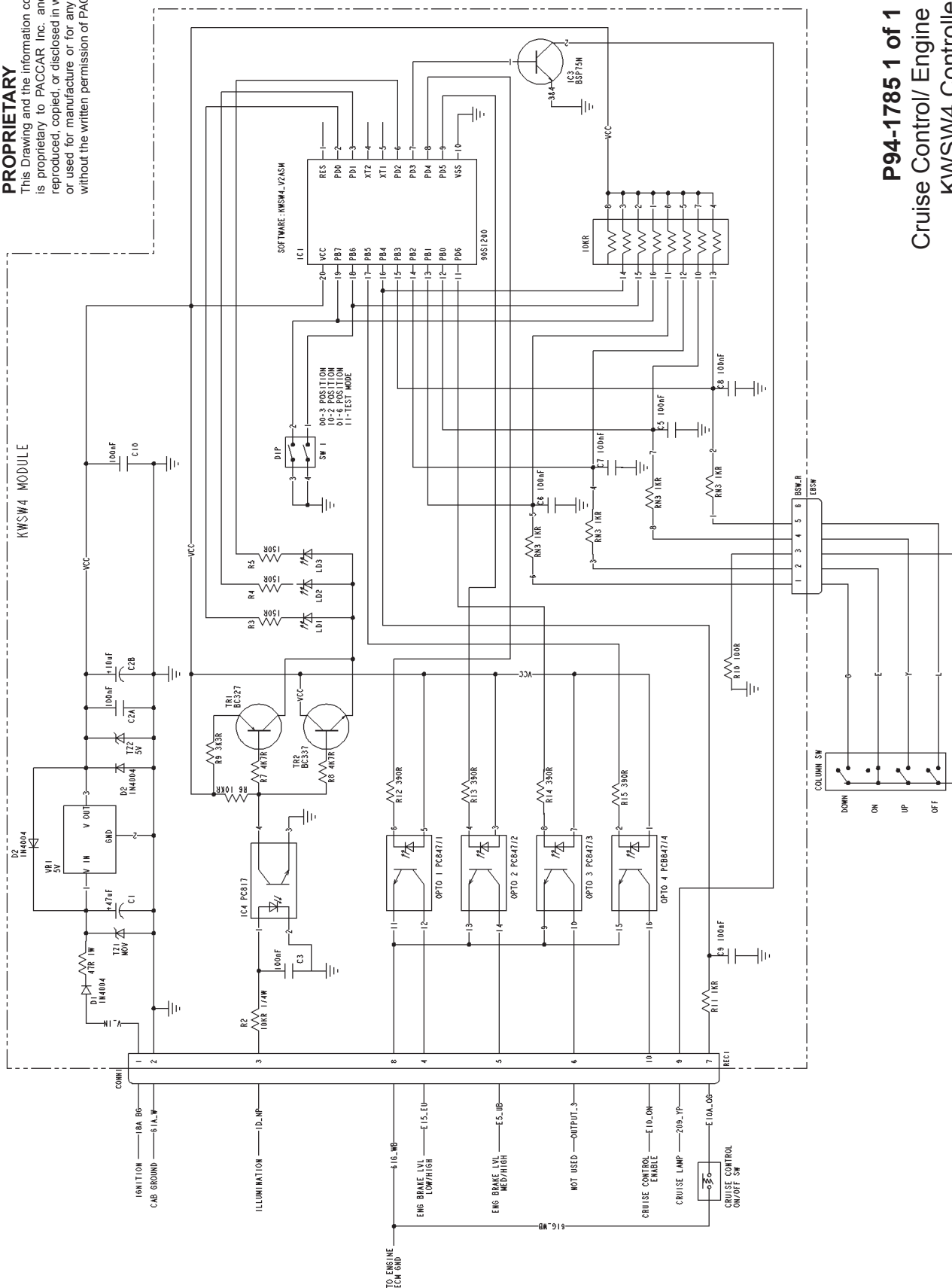




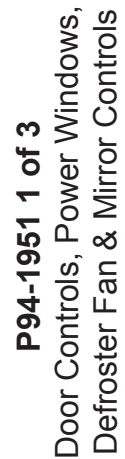


PROPRIETARY

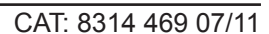
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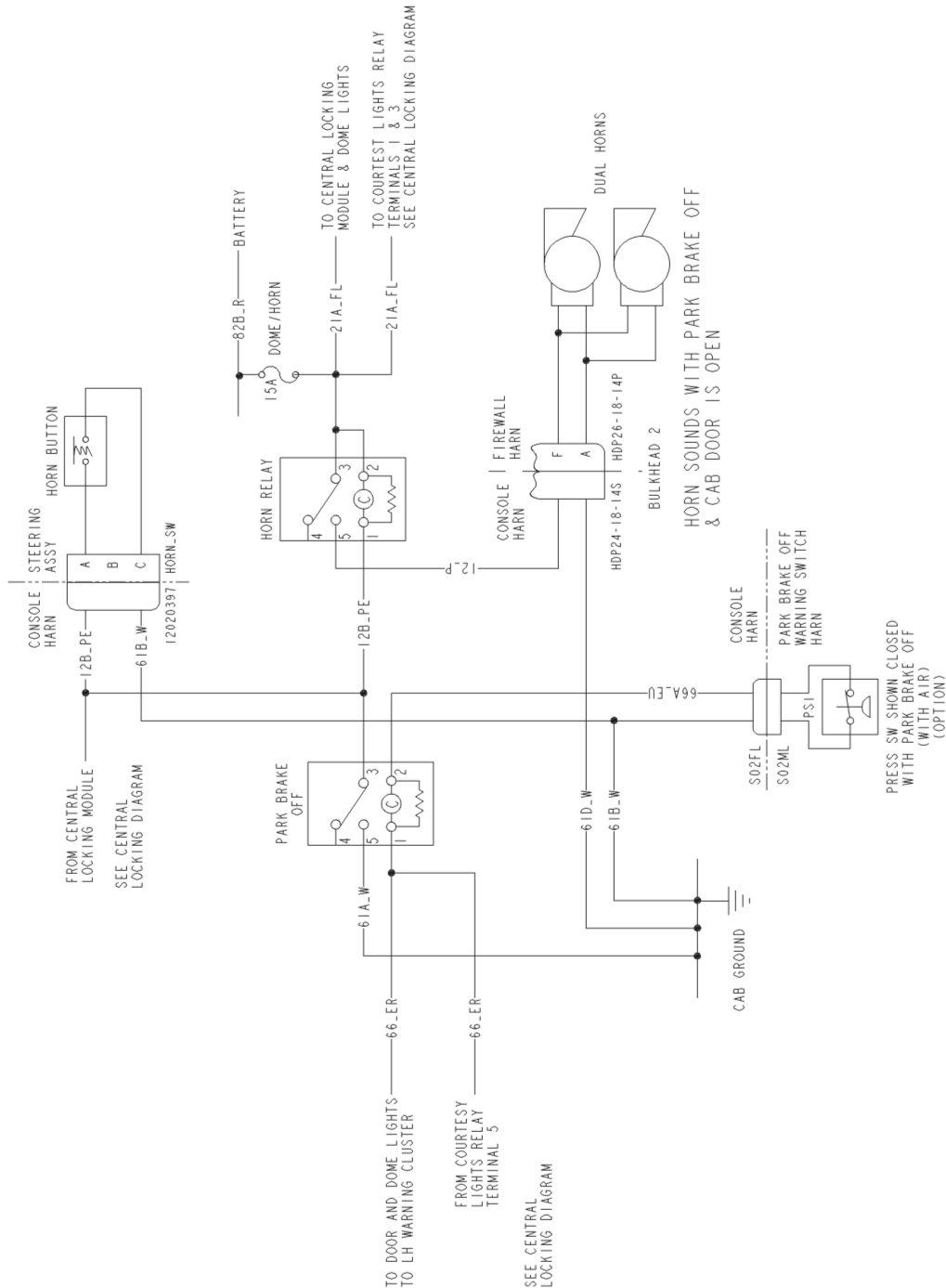


P94-1785 1 of 1
Cruise Control/ Engine Brake
KWSW4 Controller



29





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Open Door Park Brake OFF Warning Light

WIRE COLOURS

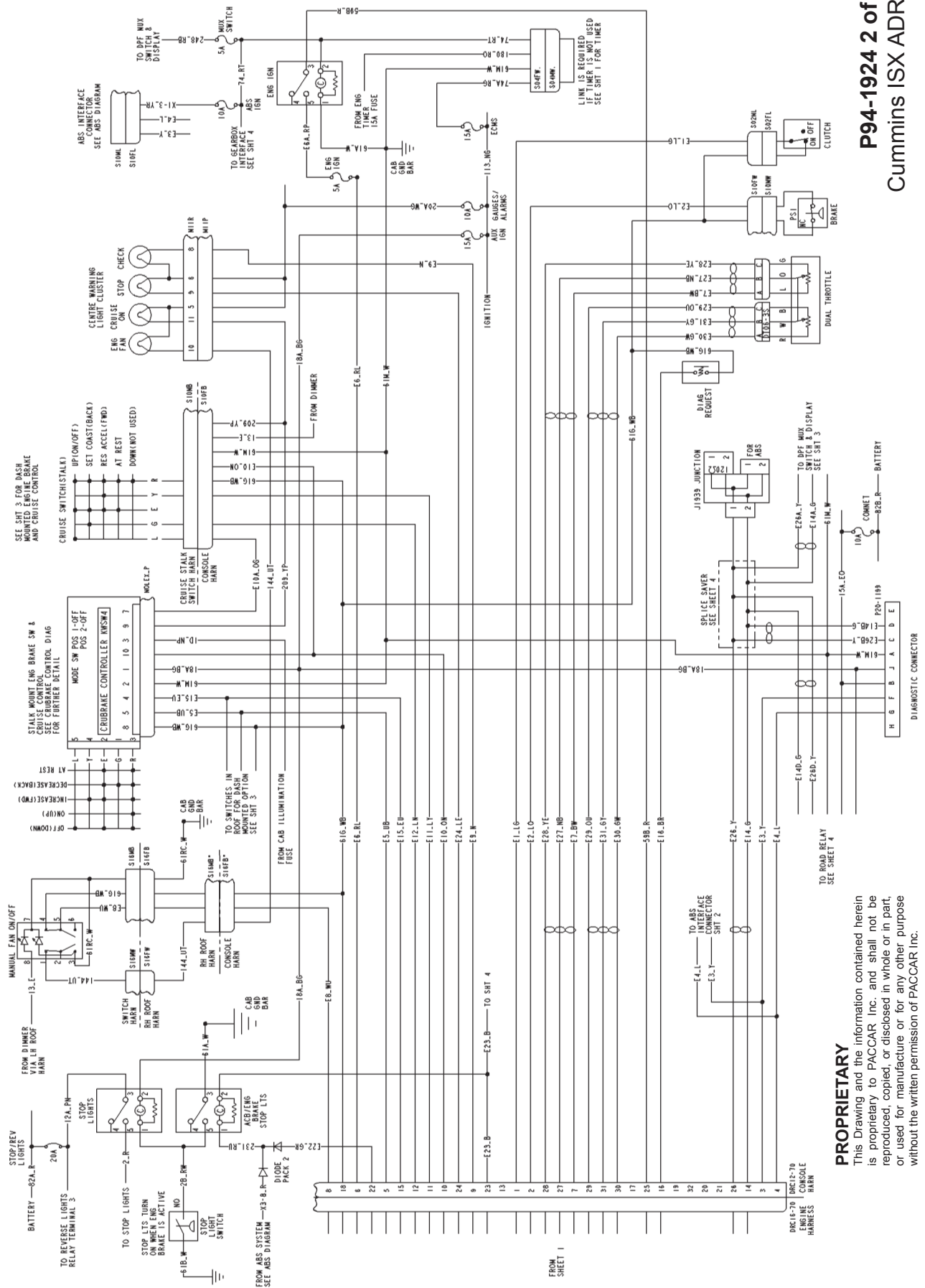
WIRE COLOURS - B=BLACK N=BROWN L=BLUE K=LIGHT BLUE
E=GREY P=PINK R=RED U=PURPLE Y=YELLOW O=ORANGE G=GREEN
F=LIGHT GREEN T=TAN W=WHITE ETC.

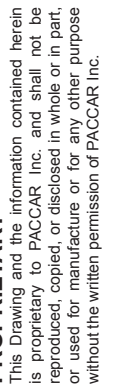
EXAMPLES GF=GREEN WIRE WITH A YELLOW TRACE.

SYMBOLS USED





33

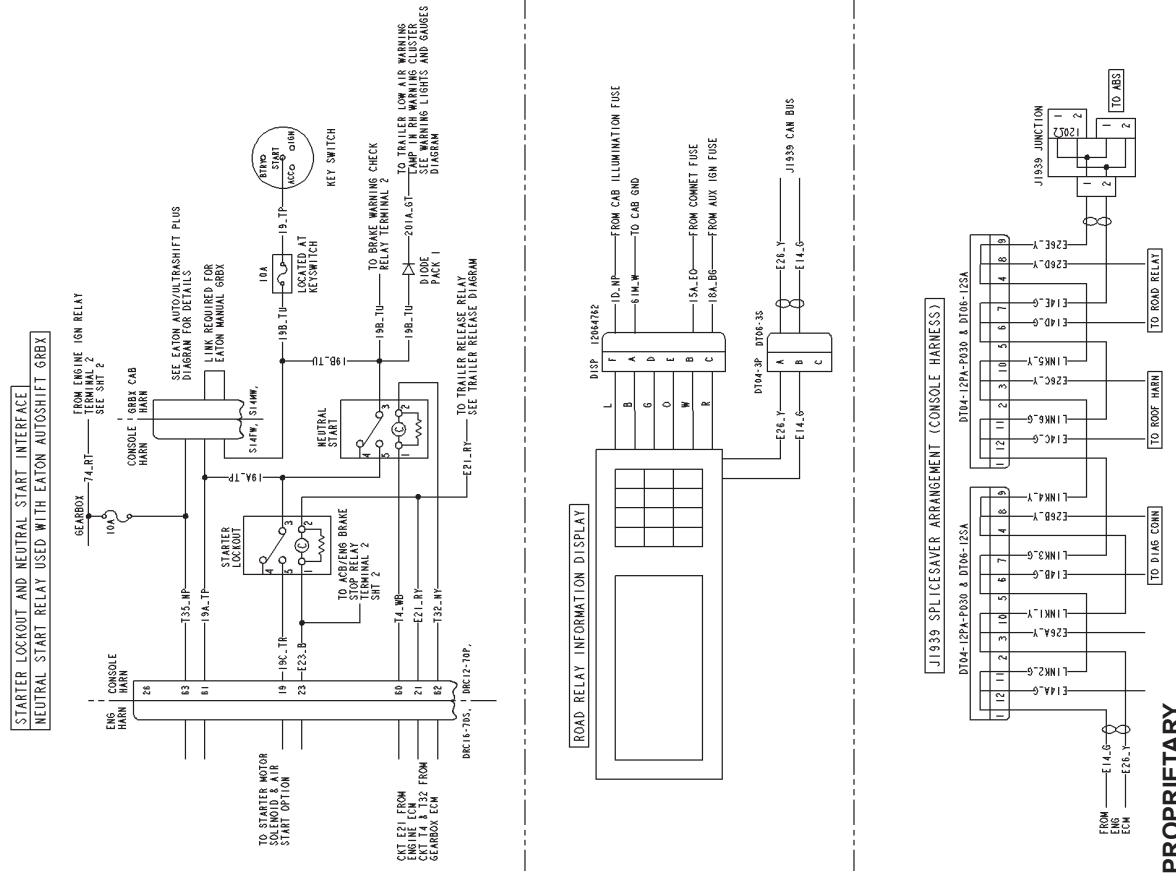
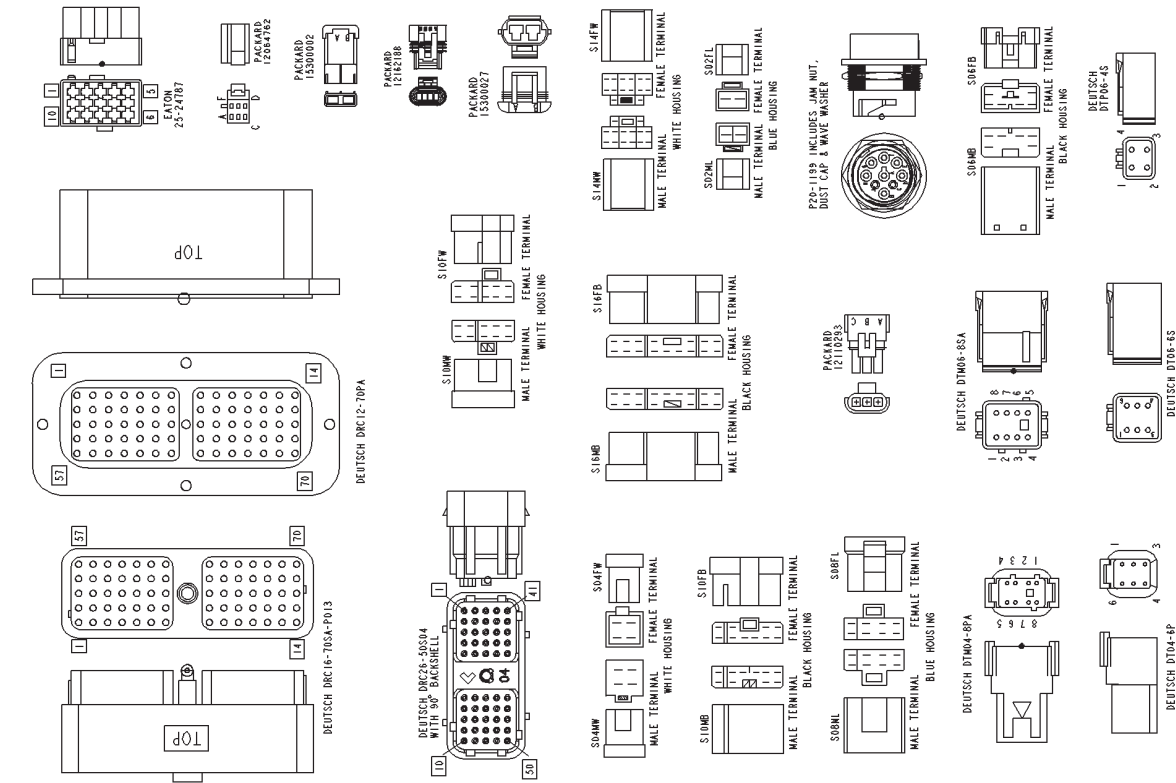






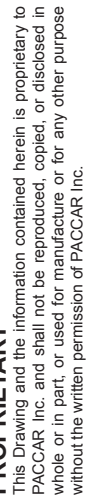


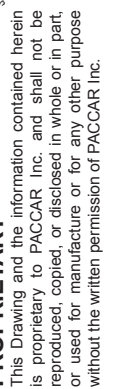
Cummins ISX ADR 80/02



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FLAT DASH MOUNTED ENG/BRAKE & CRUISE CONTROL OPTION (TO66LE SWITCHES)

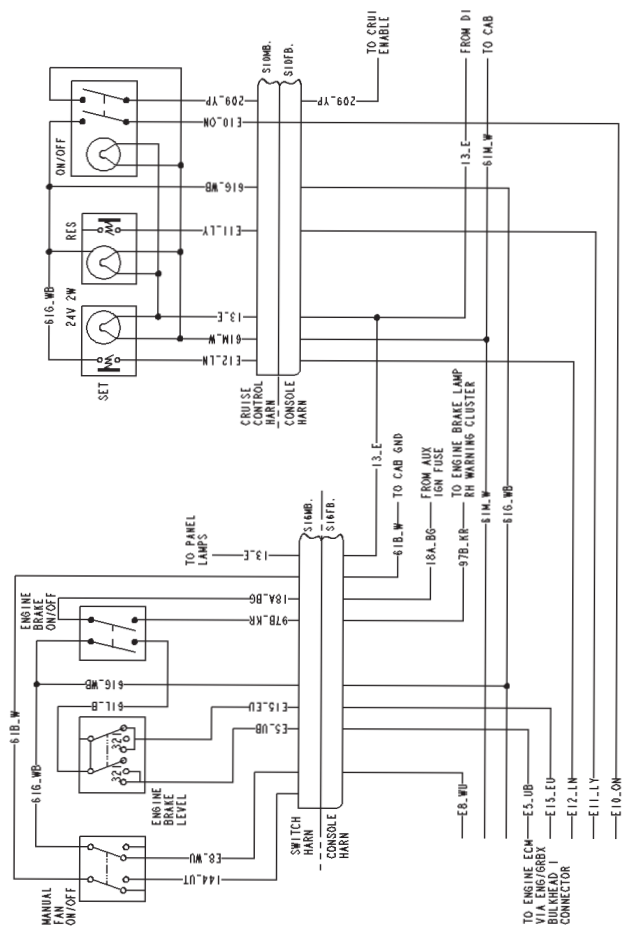


DIAGRAM B

CURVED DASH MOUNTED ENG/BRAKE & CRUISE CONTROL OPTION (ROCKER SWITCHES)

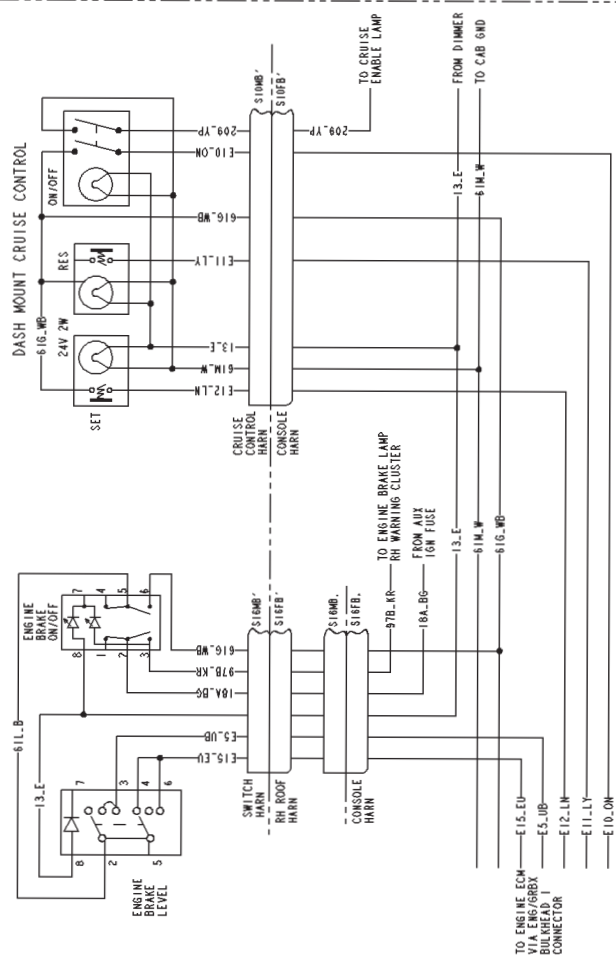
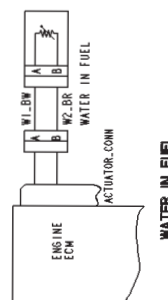


DIAGRAM A



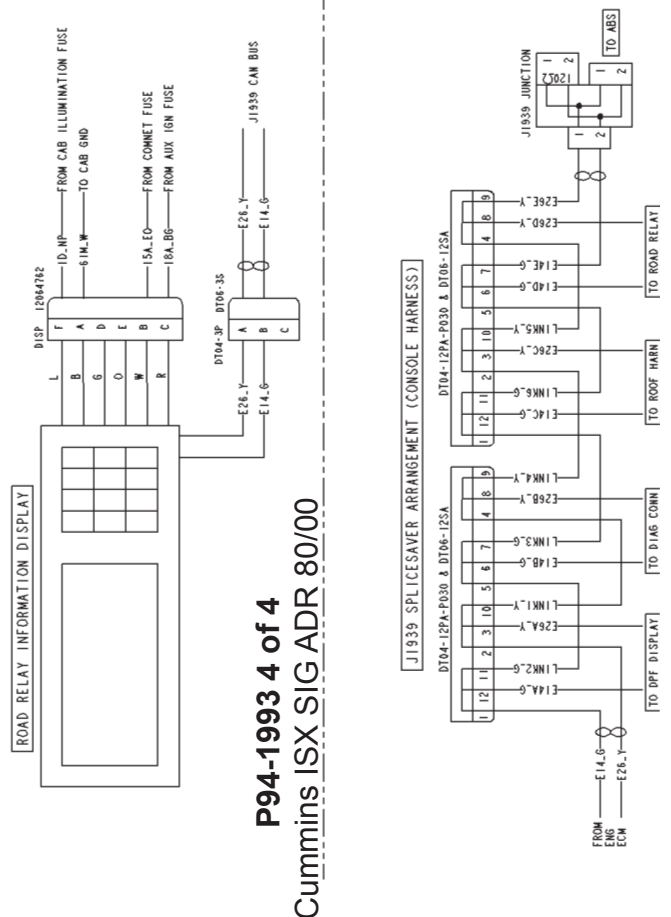
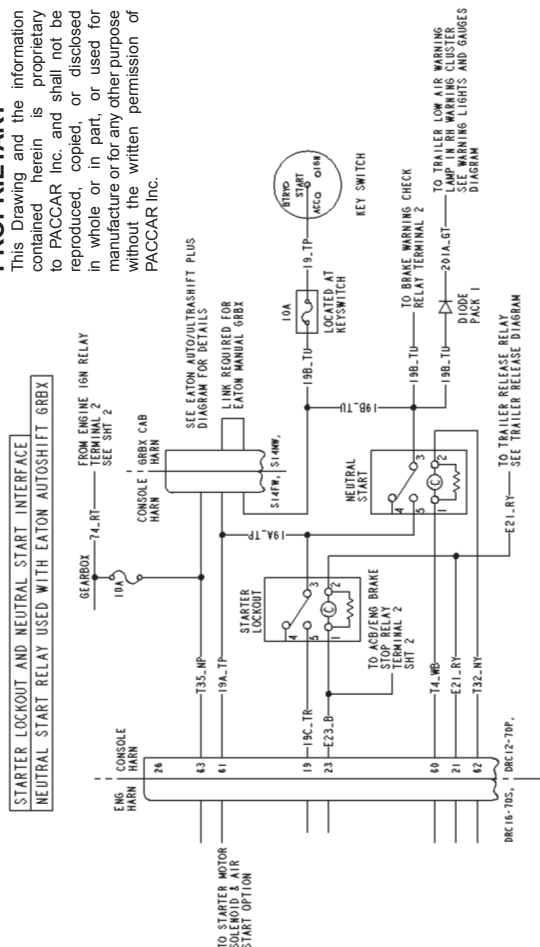
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P94-1993 3 of 4

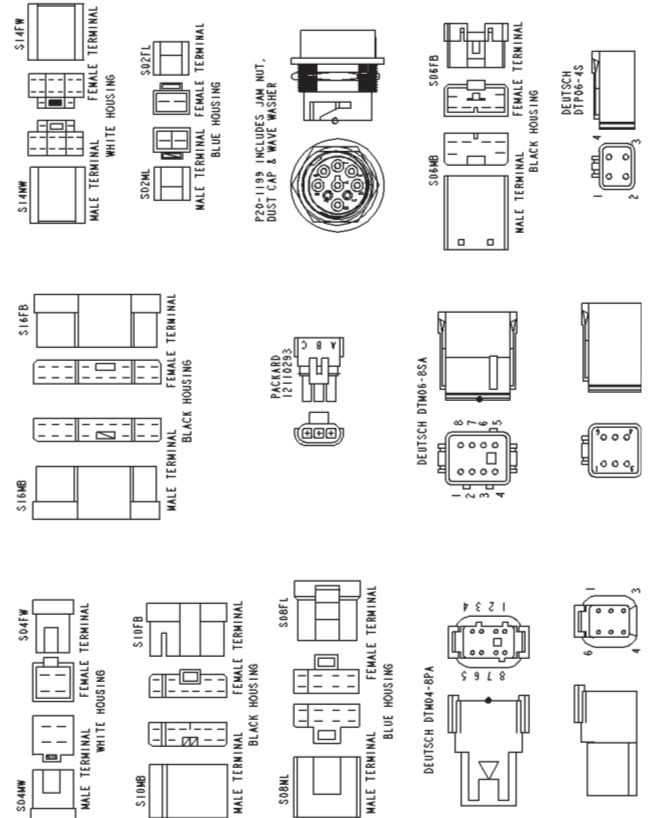
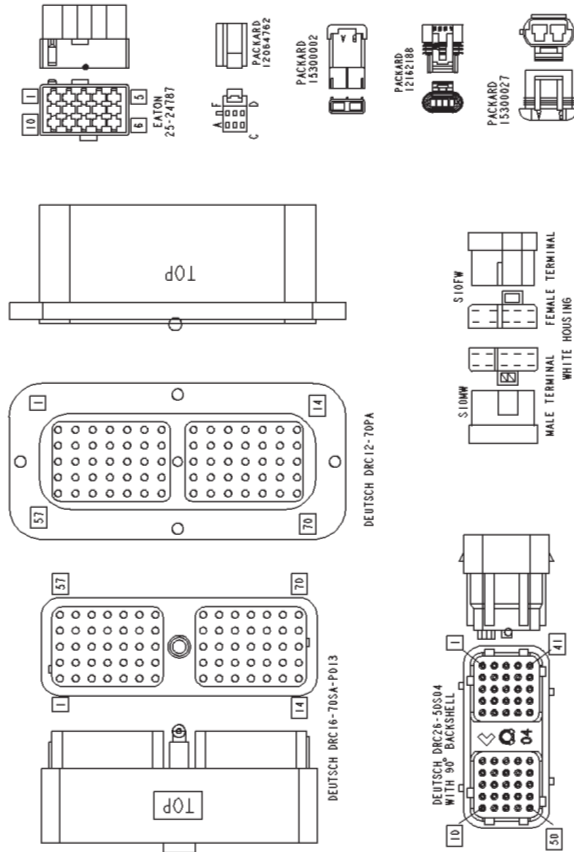
Cummins ISX SIG ADR 80/00

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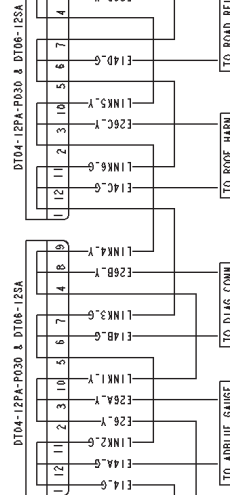
P94-1993 4 of 4

Cummins ISX SIG ADR 80/00



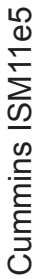




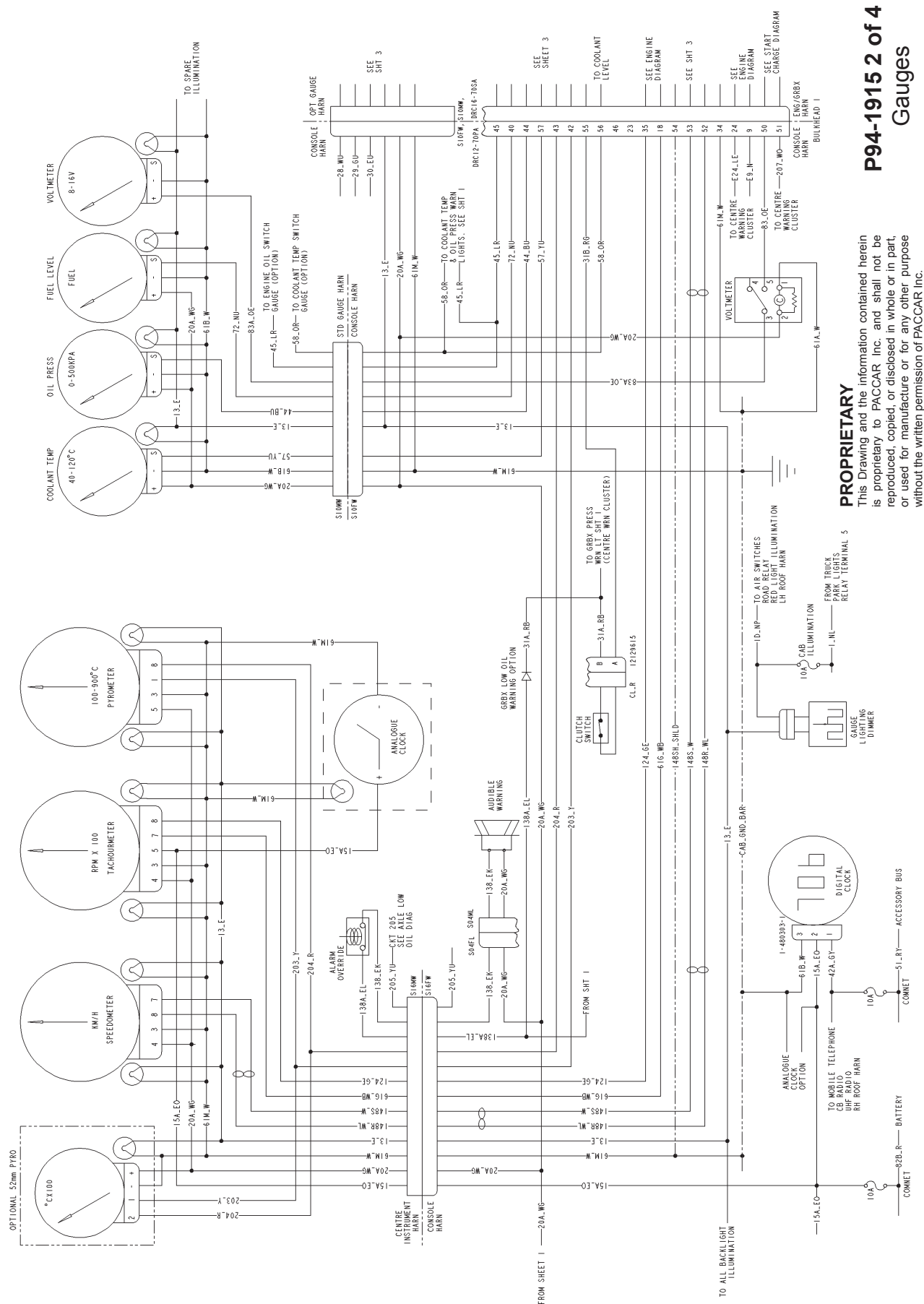


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Cummins ISM11e5







P94-1915 2 of 4 Gauges

PROPRIETARY

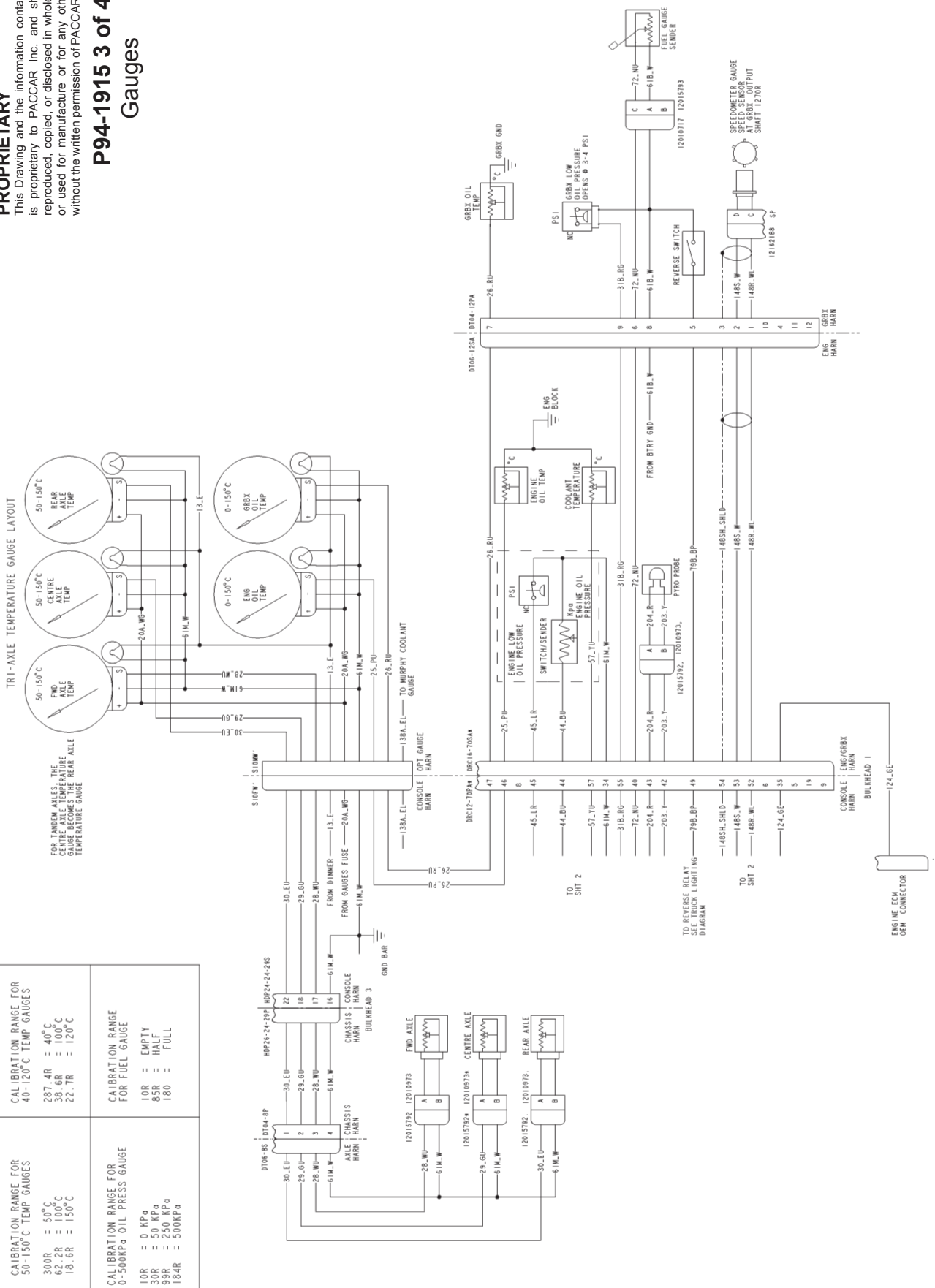
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PROPRIETARY

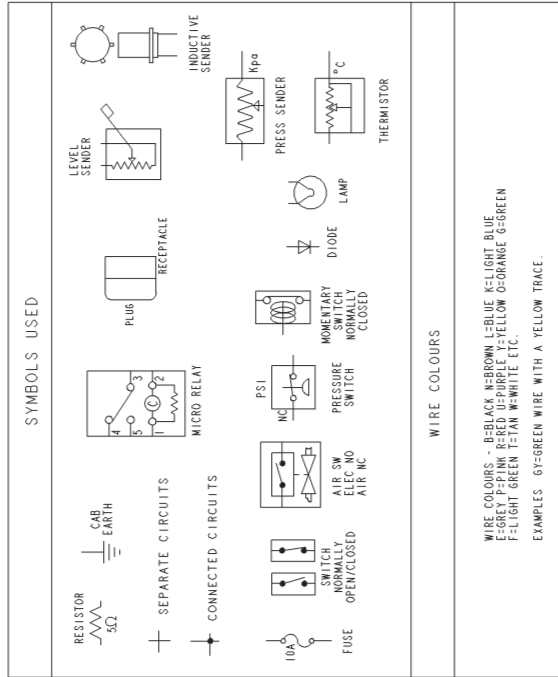
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Gauges



CALIBRATION RANGE FOR 50-150°C TEMP. GAUGES 30R = 50°C 42.2R = 100°C 18.6R = 150°C	CALIBRATION RANGE FOR 0-500KPa OIL PRESS GAUGE 10R = 0 KPa 30R = 50 KPa 99R = 250 KPa 184R = 500KPa
CALIBRATION RANGE FOR 40-120°C TEMP. GAUGES 287.4R = 40°C 38.6R = 100°C 22.7R = 120°C	CALIBRATION RANGE FOR FUEL GAUGE 10R = EMPTY 85R = HALF 180 = FULL

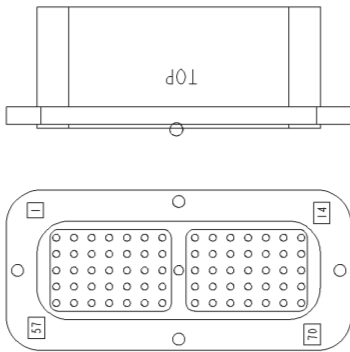


PROPRIETARY

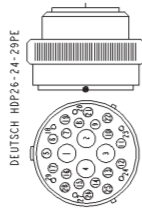
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P94-1915 4 of 4

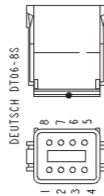
Gauges



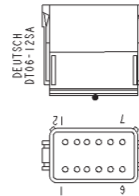
DEUTSCH DRC12-70PA



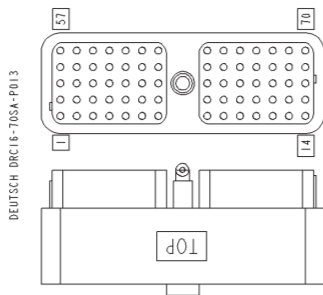
DEUTSCH HDP26-24-29PE



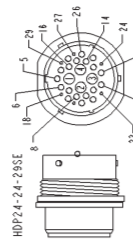
DEUTSCH DT06-8S



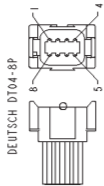
DEUTSCH DT06-12SA



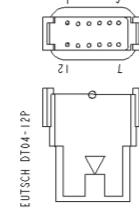
DEUTSCH DRC16-70SA-P013



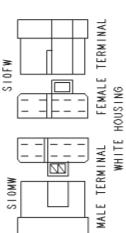
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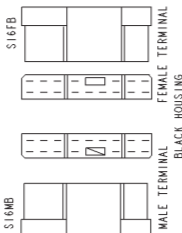
DEUTSCH DT04-8P



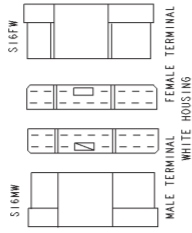
DEUTSCH DT04-12P



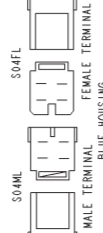
S10FW



S16FB



S16FW



S04FL



PACKARD 12015792



PACKARD 12015793



PACKARD 12162188



AMP 1-480303-0





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TO CALCULATE VALUES : TACHO PULSES X ENG RPM DIVIDED BY 60

TO TEST SYSTEM:

1. DISCONNECT GEARBOX OIL PRESS SW & SHORT OUT TERMINALS.

2. START UP ENGINE & REV OUT ABOVE 800 RPM

3. GEARBOX OIL PRESS LIGHT MUST COME ON

3. GLARBOX OIL PRESS LIGHT MUST COME ON
4. DECOMPOSE ALL DEEP OILS

- #### 4. RECONNECT OIL PRESS SWITCH

- ## 5. REPEAT STEP 2

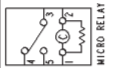
- 6.6 GEARBOX PRESS LIGHT MUST GO OFF

[illegible]

TO PROGRAM MODULE:

1. SET SW2-1 TO 12V
2. SET SW-1 TO PROGRAM
3. SET SW-2 TO CH1
4. SET SW-3 TO HIGH
5. ENTER HIGH VALUE OBTAINED FROM CALIBRATION TABLE
6. USE UP OR DOWN BUTTON TO INCREASE OR DECREASE VALUE ON DISPLAY
7. PRESS SET BUTTON TO ACCEPT VALUE
8. SET SW-3 TO LOW
9. ENTER LOW VALUE CALIBRATED FROM CALIBRATION CHART
10. REPEAT STEPS 6 & 7
11. SET SW-1 TO RUN
12. LEAVE ALL OTHER SWITCHES AS SHOWN

SYMBOLS USED



TOR



011025410





EARTH



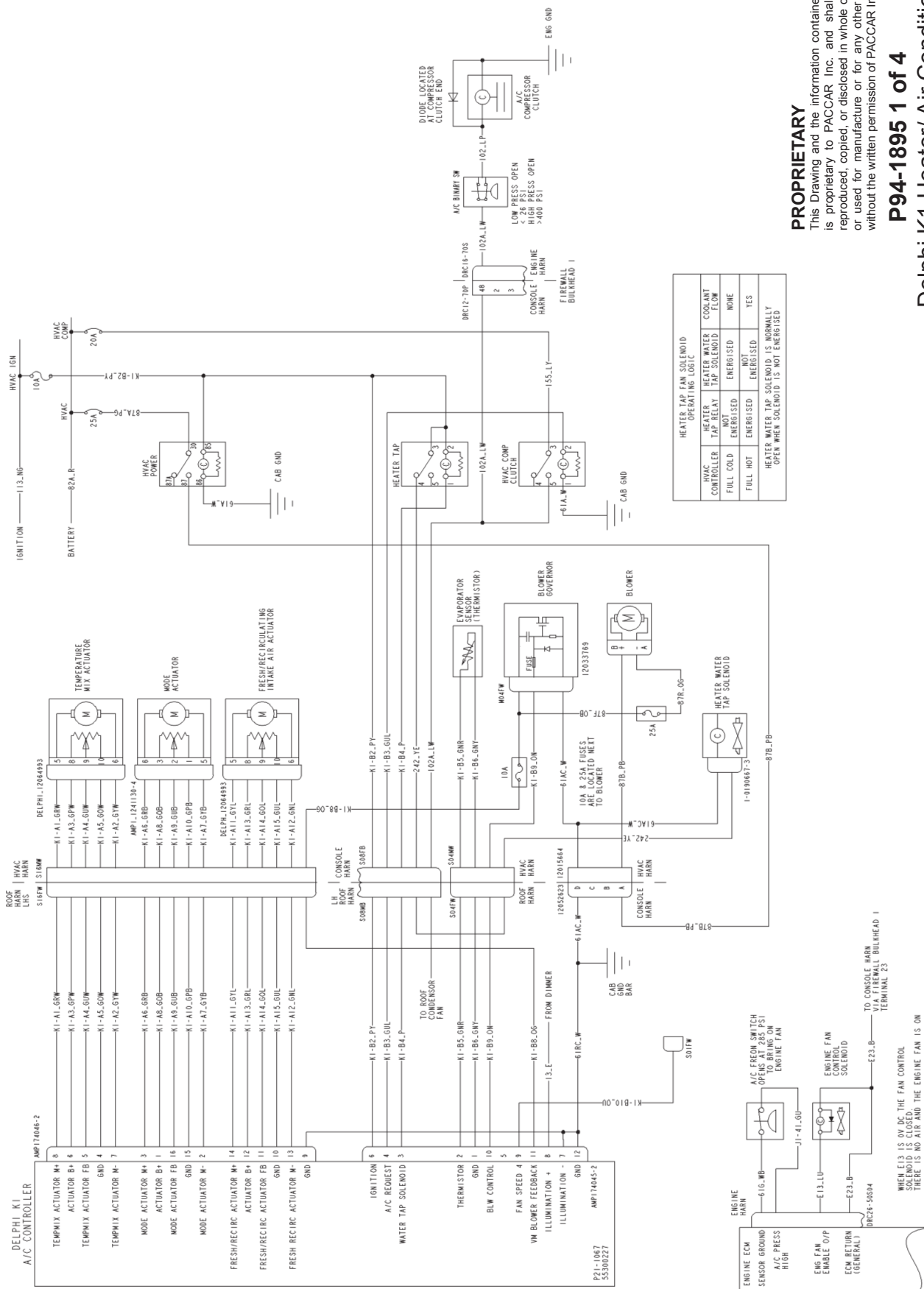
30



**MOMENTARY
SWITCH
NORMALLY
OPEN**

WIRE COLOURS

N=BROWN I=BLUE K=LIGHT BLUE
PURPLE Y=YELLOW O=ORANGE G=GREEN
WHITE ETC.
E WITH A YELLOW TRACE.

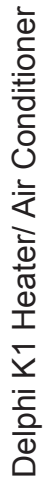
**PROPRIETARY**

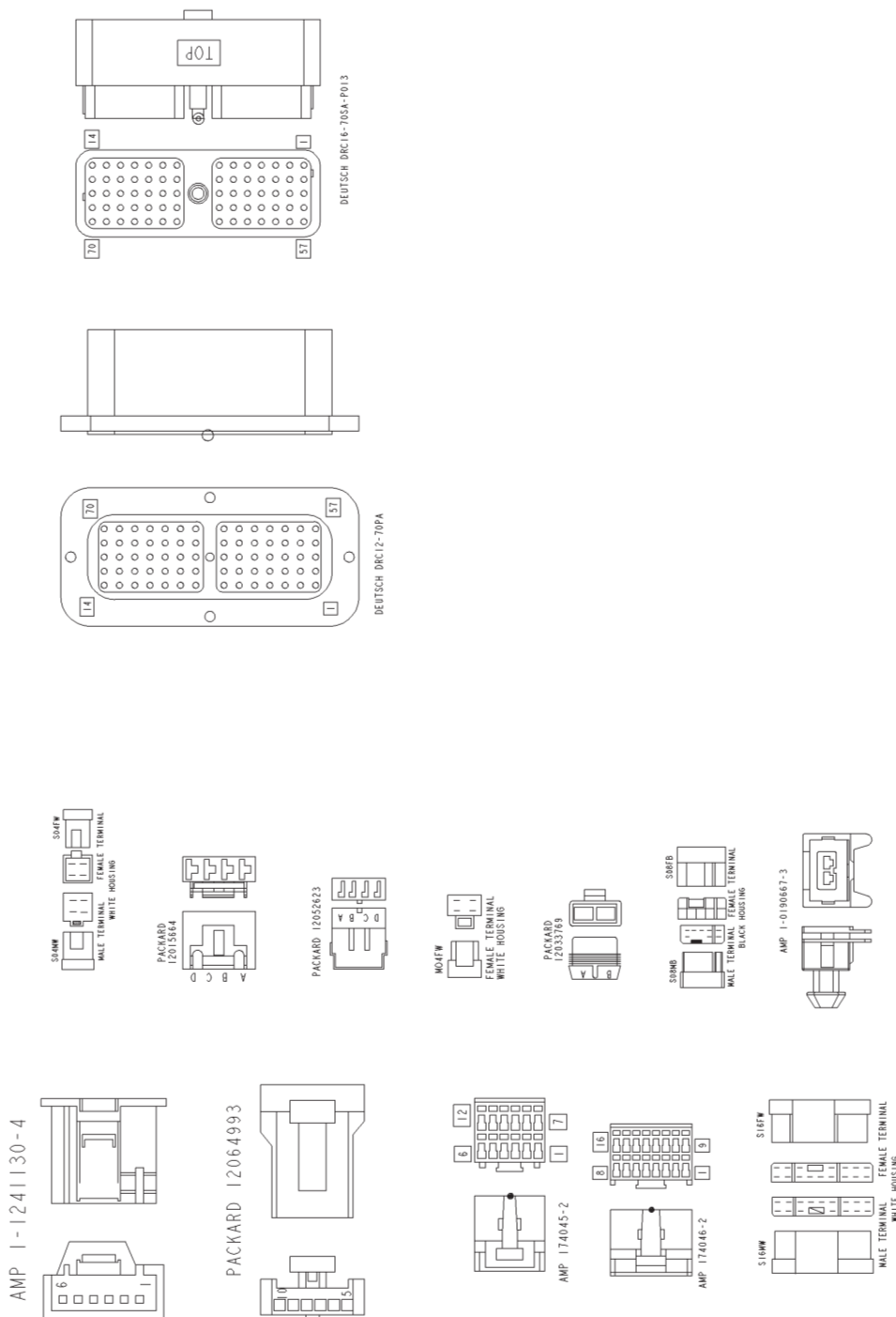
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P94-1895 1 of 4

Delphi K1 Heater/ Air Conditioner







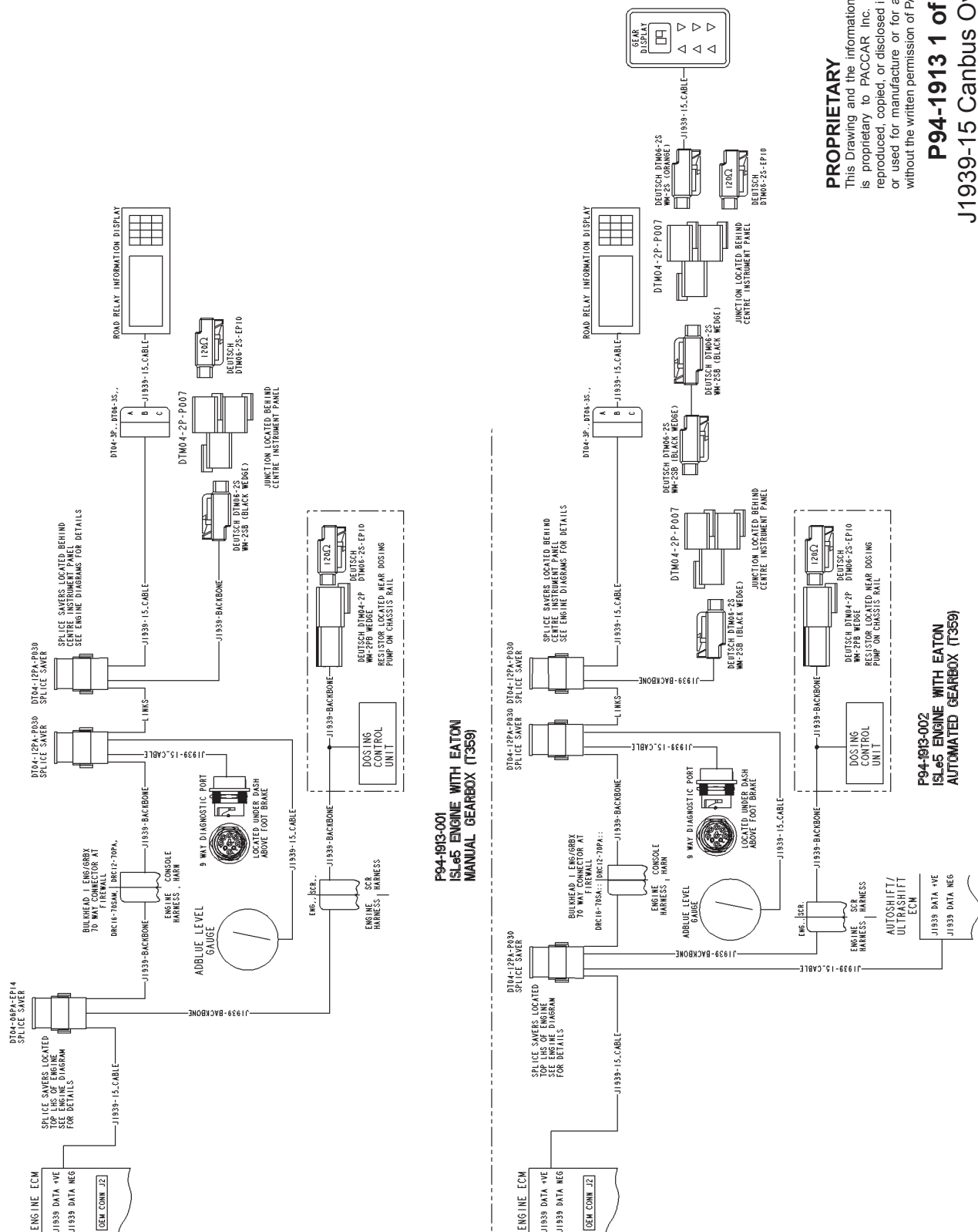
SYMBOLS USED SEPARATE CIRCUITS CONNECTED CIRCUITS	RECEPTAL PLUG 50A CIRCUIT BREAKER IN LINE FUSE FUSE MICRO RELAY MINI RELAY CAB/ENGINE GROUND	WIRE COLOURS WIRE COLOURS - BLACK, BROWN, BLUE, LIGHT BLUE, GREEN, PINK, RED, PURPLE, YELLOW, ORANGE, GREEN, LIGHT GREEN, TAN, WHITE, ETC. EXAMPLES: 01-GREEN WIRE WITH A YELLOW TRACE.
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PROPRIETARY

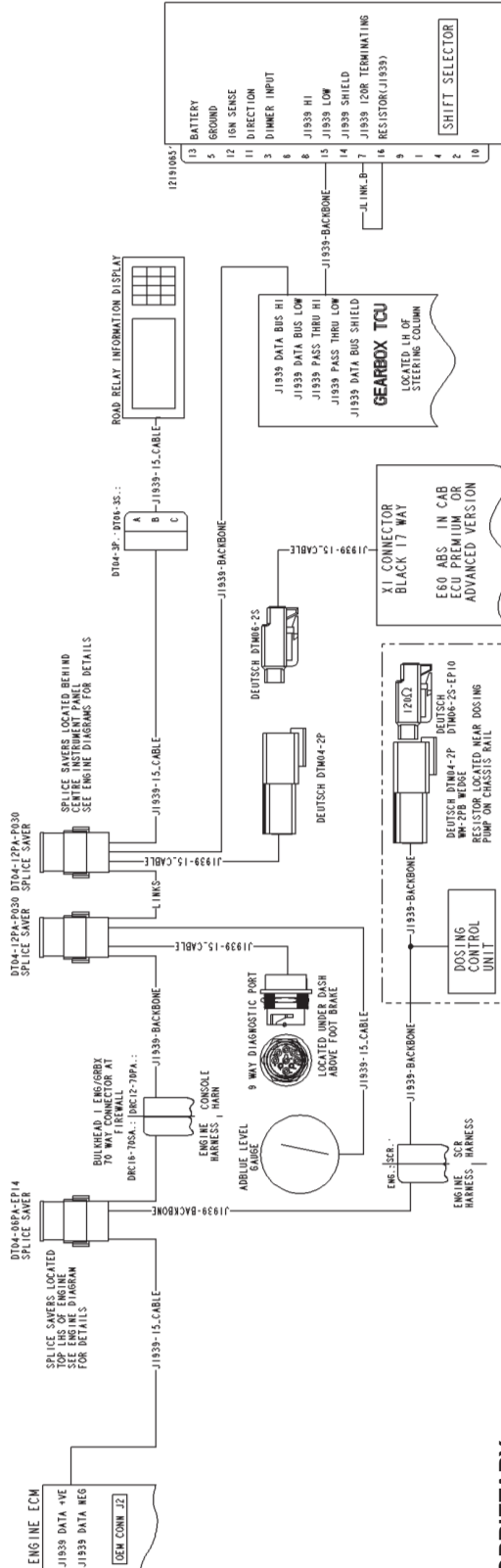
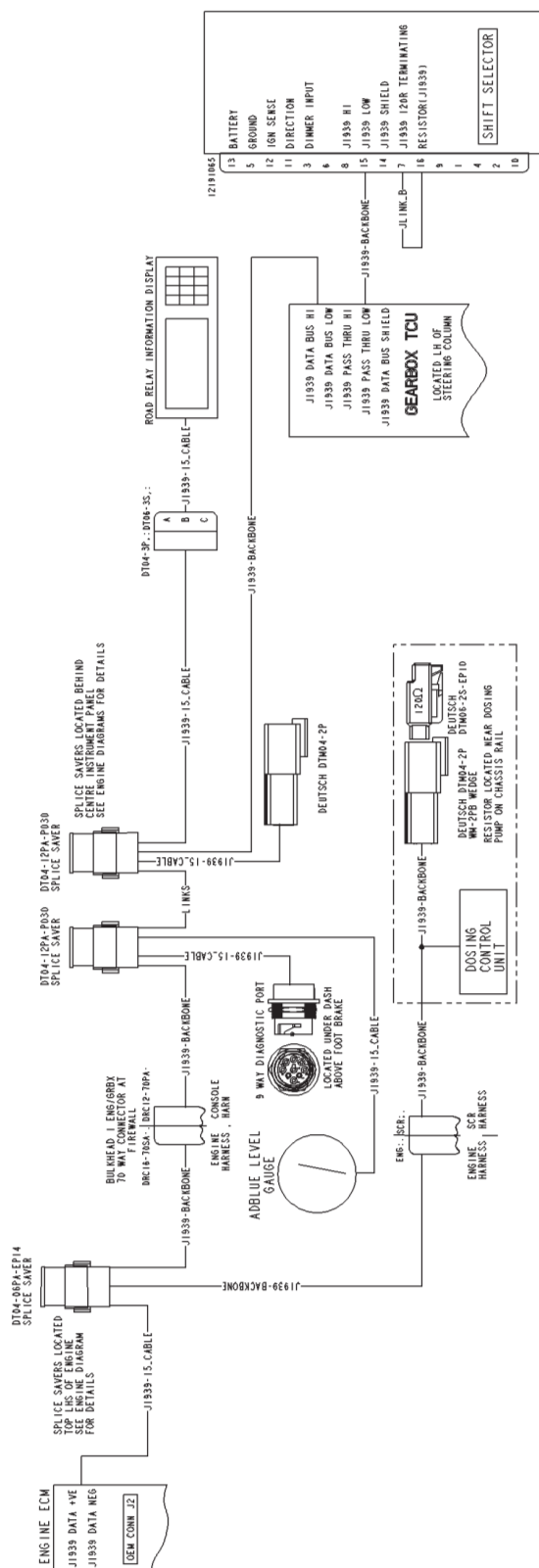
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P94-1895 4 of 4

Delphi K1 Heater/ Air Conditioner







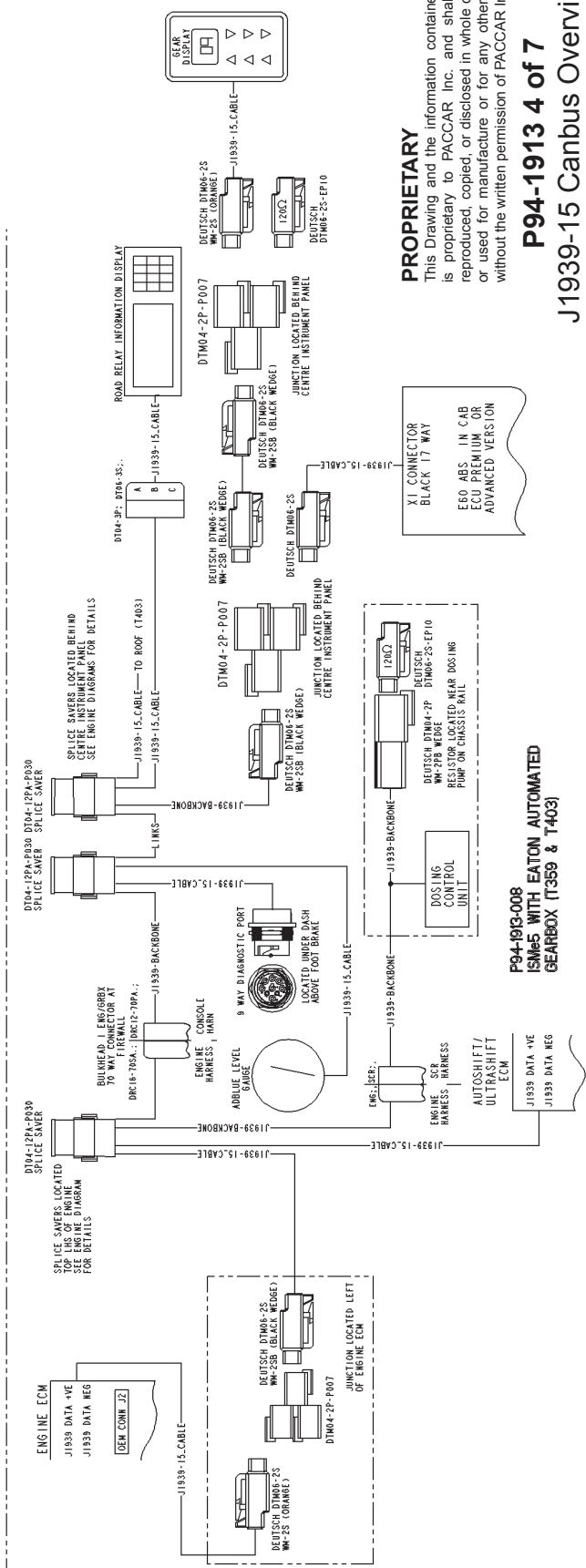
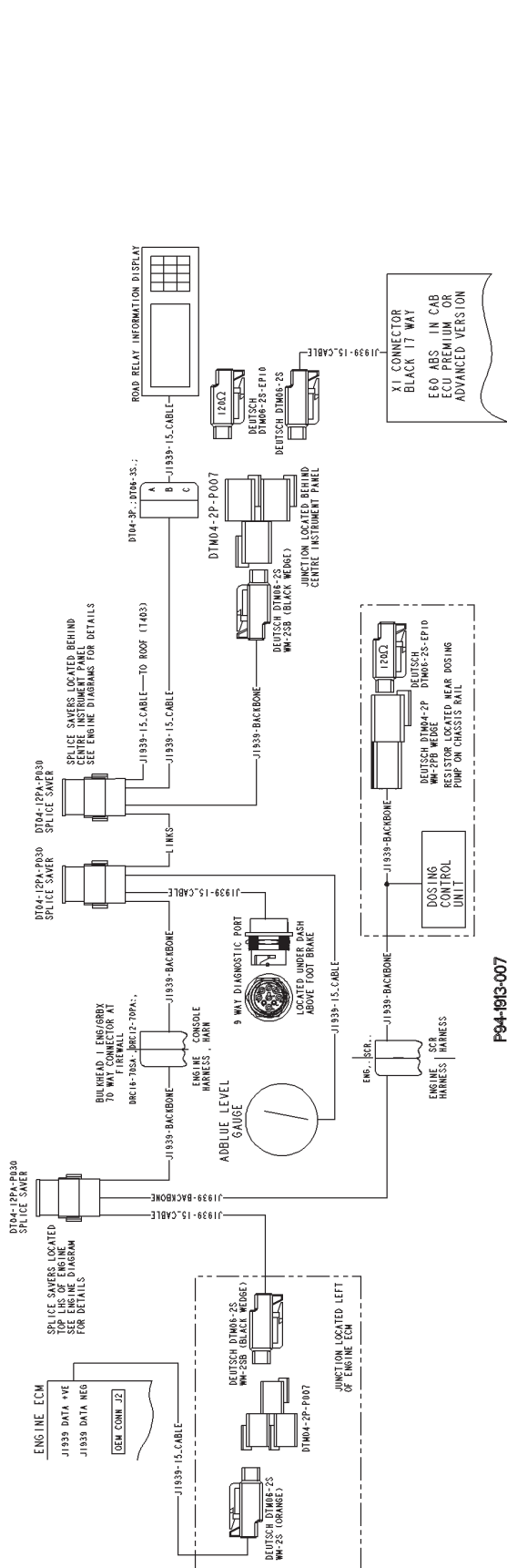
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P94-1913-006
ISLe5 ENGINE WITH ALLISON MY09
AUTOMATIC GEARBOX &
EBSS 1, 2, 3 BRAKING (T359)

P94-1913 3 of 7

J1939-15 Canbus Overview



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J1939-15 Canbus Overview







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NOTE: THE SLOSH DELAY IS APPROXIMATELY 5 TO 10 SECONDS WHEN DIP SWITCH 2 IS SET TO ON.

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Low Fuel Alarm



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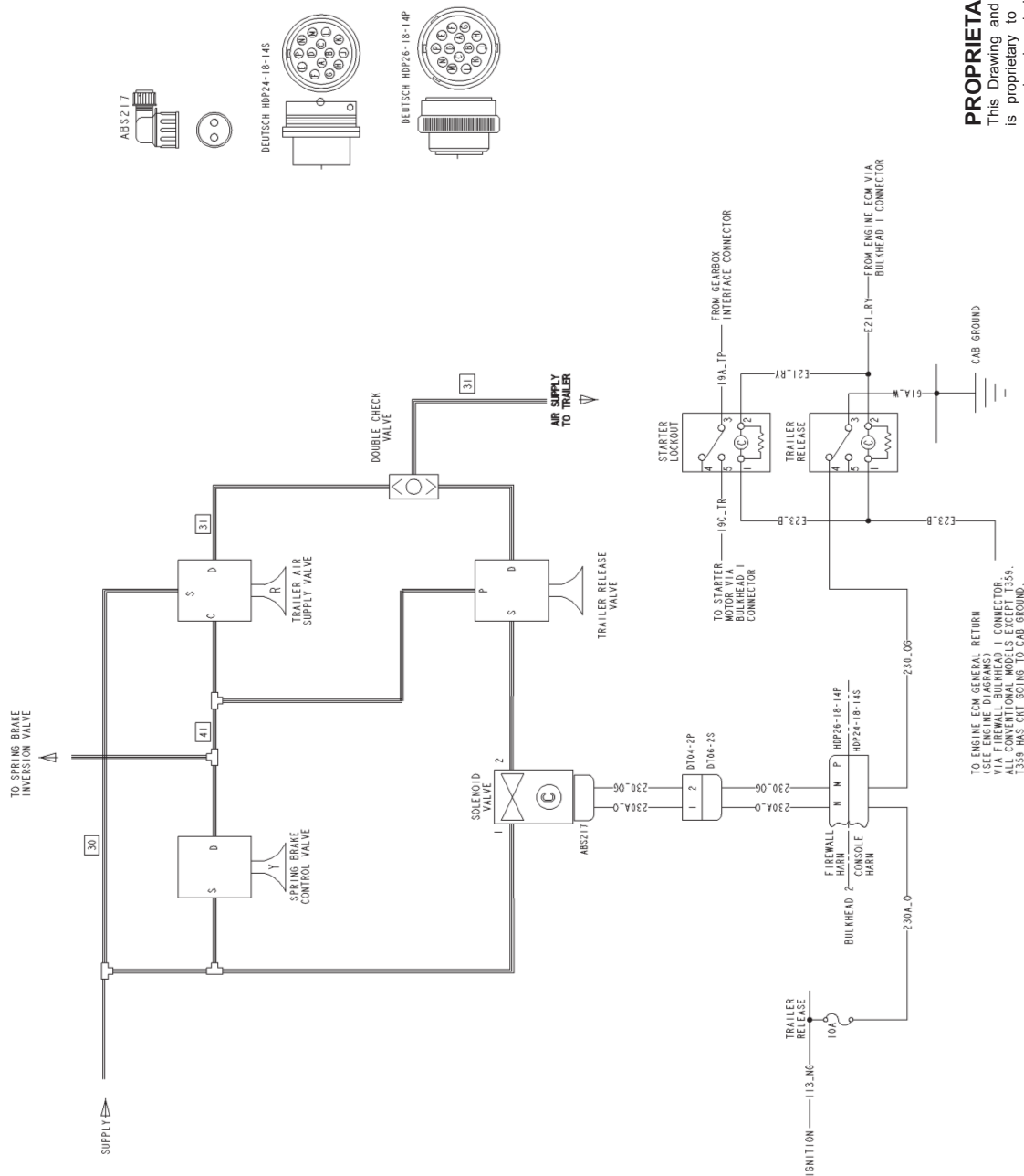
Low Axle Oil Pressure Warning



Power Mirrors (Traditional Doors)



SYMBOLS USED		WIRE COLOURS
 CAB EARTH	 10A FUSE	WIRE COLOURS - B=BLACK N=BROWN L=BLUE X=LIGHT BLUE E=GREY P=PINK R=RED U=PURPLE T=YELLOW O=ORANGE G=GREEN F=LIGHT GREEN T=TAN W=WHITE ETC. EXAMPLES GY=GREEN WIRE WITH A YELLOW TRACE.
 50A CIRCUIT BREAKER	 MICRO RELAY	



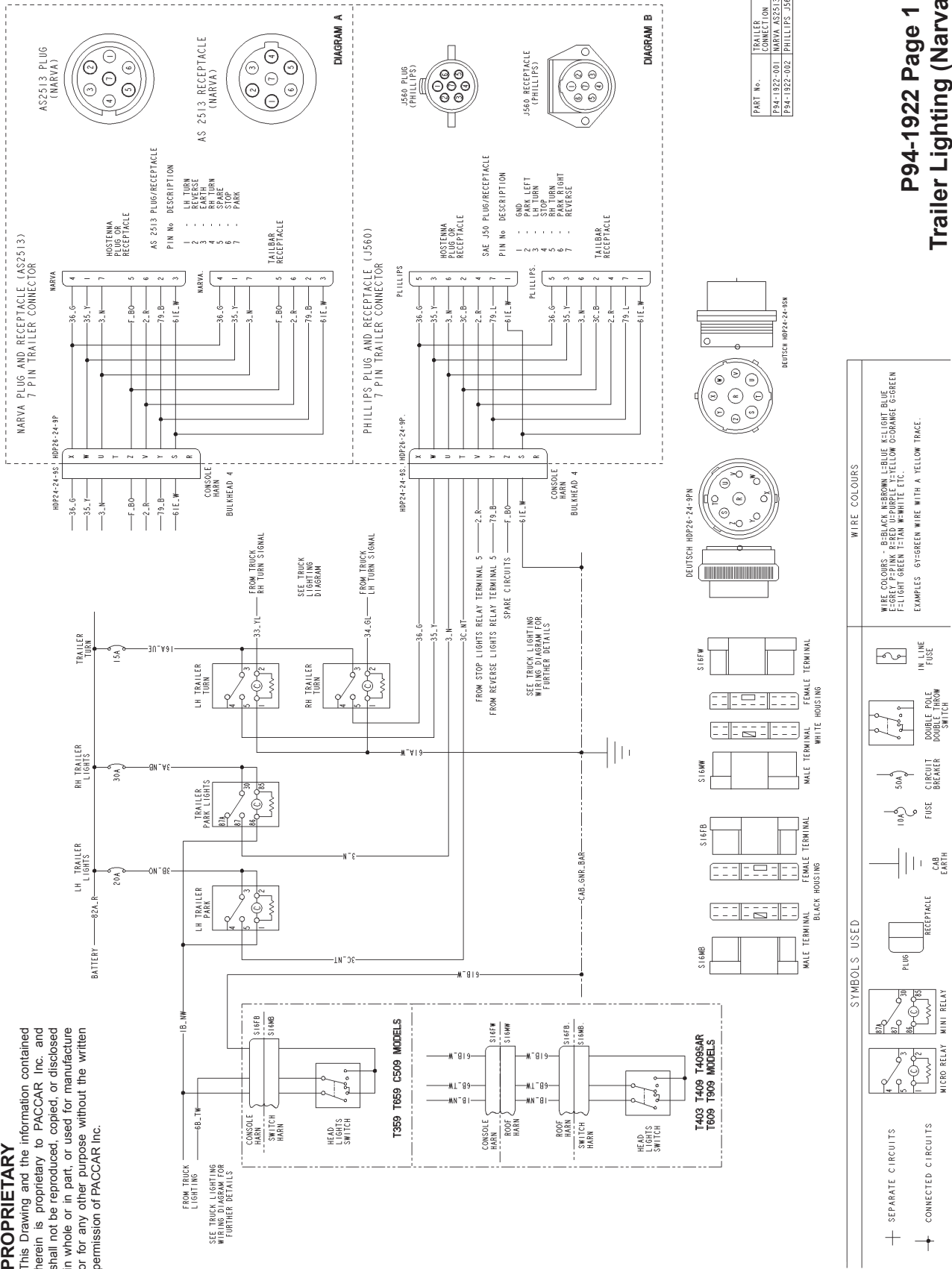
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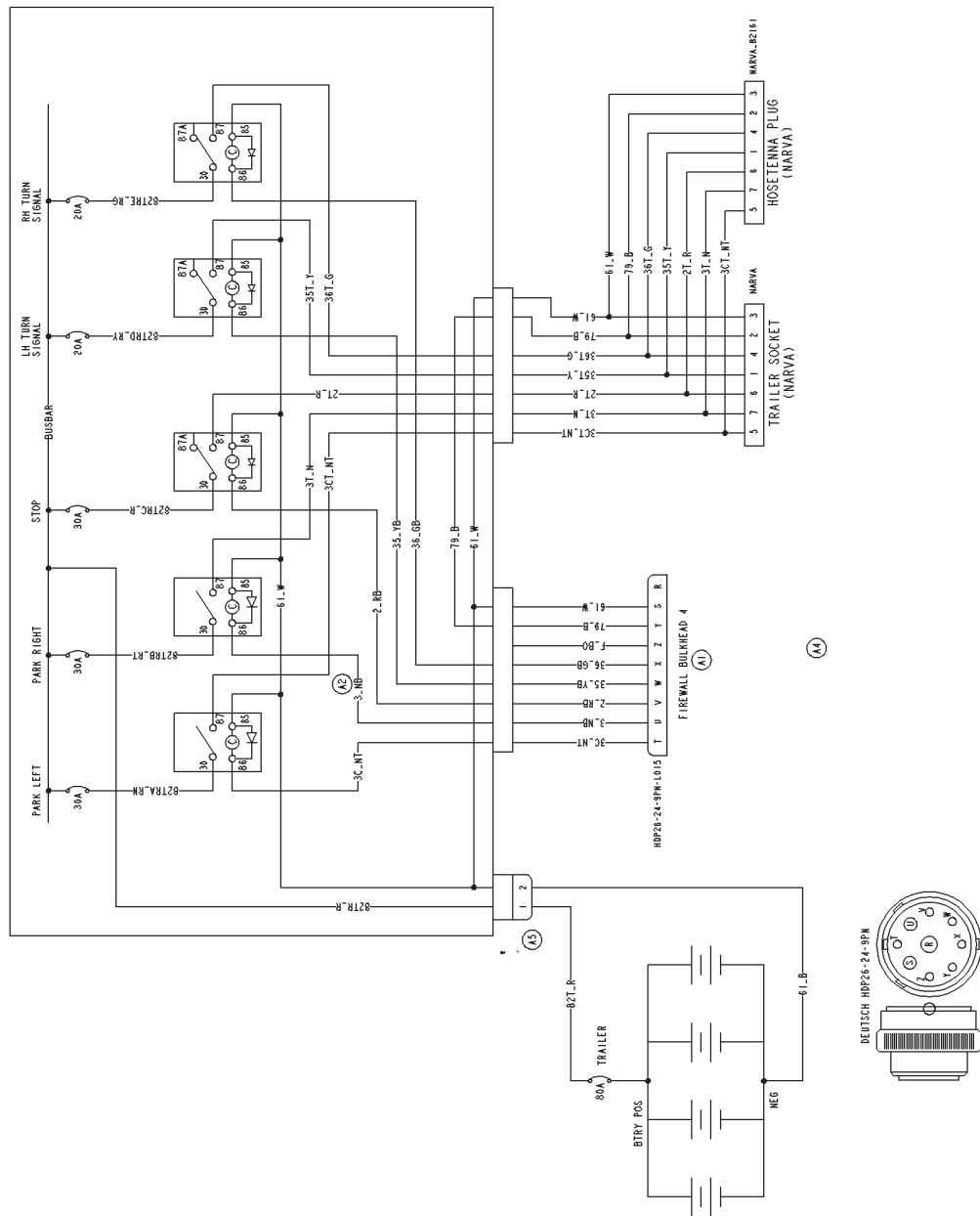
P94-1921 Page 1 of 1

Trailer Air Enable Diagram

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TRAILER POWER DISTRIBUTION BOX



PROPRIETARY

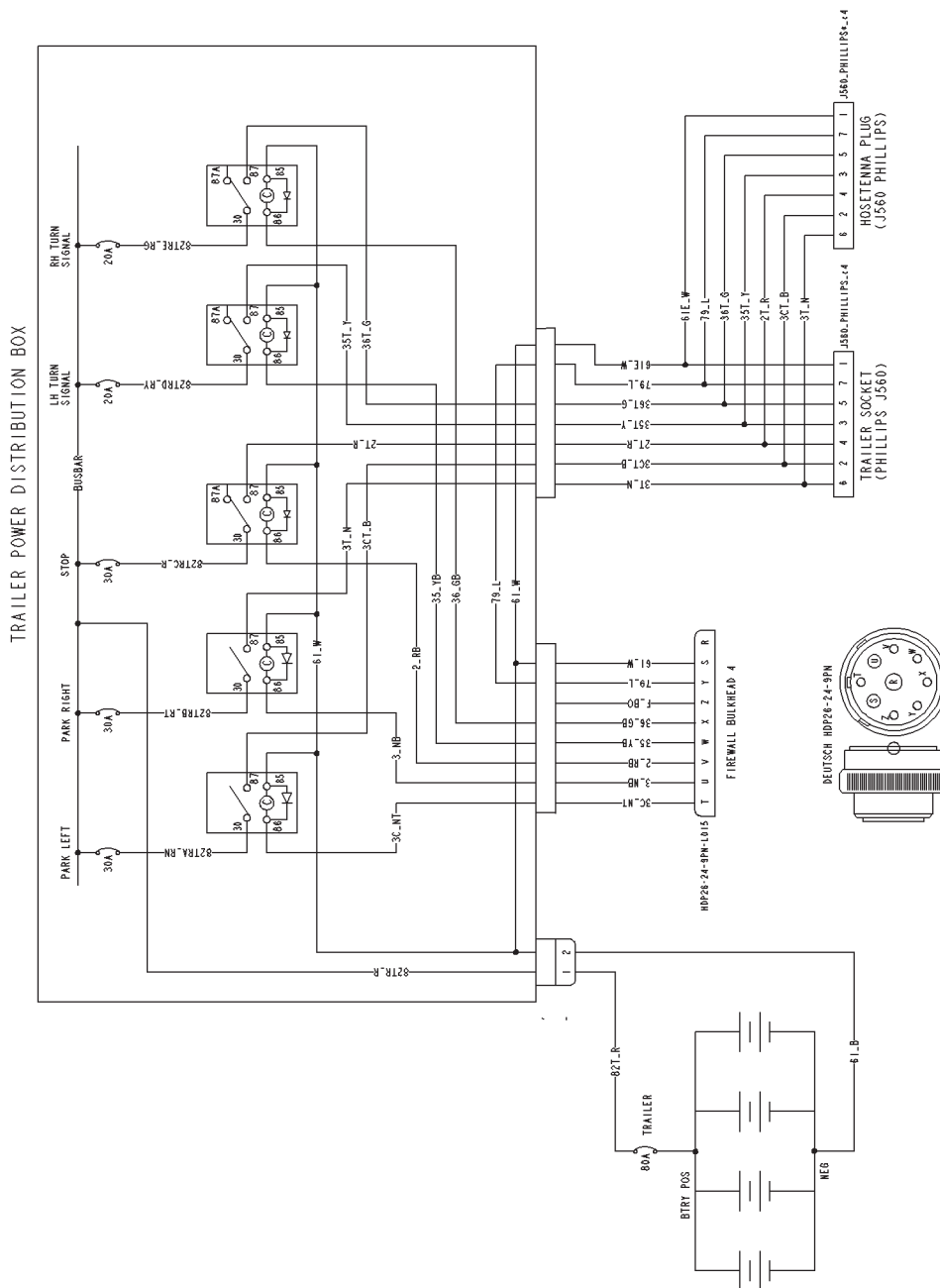
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P94-1995 Page 1 of 1

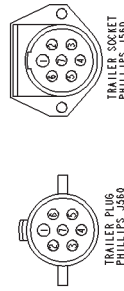
TrailerPower Distribution Box - Narva

SYMBOLS USED		WIRE COLOURS	
RECEPTACLE	BULLET CONN	WIRE COLOURS: - B=BLACK -NBROWN-LEBLUE -K=LIGHT BLUE F=LIGHT GREEN -Y=YELLOW -O=ORANGE -G=GREEN E=LIGHT GREEN -T=TAN -W=WHITE ETC. EXAMPLES: 6Y=GREEN WIRE WITH A YELLOW TRACE.	
PLUG	FEMALE		
SEPARATE CIRCUITS	CONNECTED CIRCUITS		
		MICRO RELAY IN LINE FUSE CIRCUIT BREAKER FUSE C/B EARTH	

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PHILIPS J560 TRAILER SOCKET			
TERMINAL No.	CIRCUIT No.	FUNCTION	WIRE COLOUR
1	61	GROUND	WHITE
2	3C7	PARK LEFT	BLACK
3	33T	LH TURN	YELLOW
4	21	STOP	RED
5	36T	RH TURN	GREEN
6	3T	PARK RIGHT	BROWN
9	3	12V BATT	BROWN

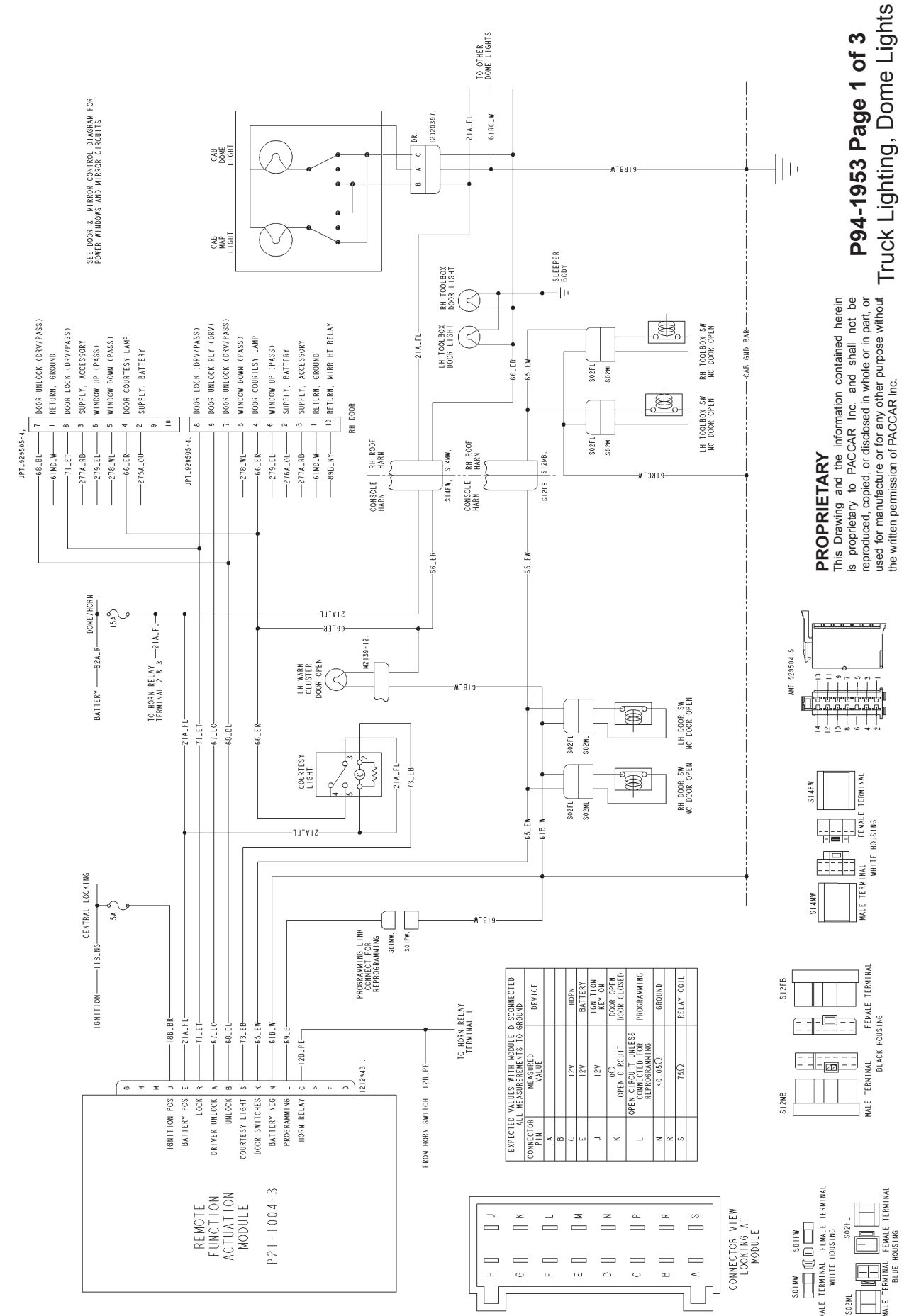


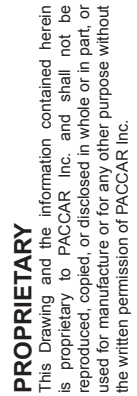
FIRST RELEASED FOR ALL 2011 MODELS FROM FEB 2011 AS AN
INTERMEDIATE FIX WITH BULKHEAD CONNECTION REQUIRING
A POWER DISTRIBUTION BOX WITH PHILLIPS CONNECTION

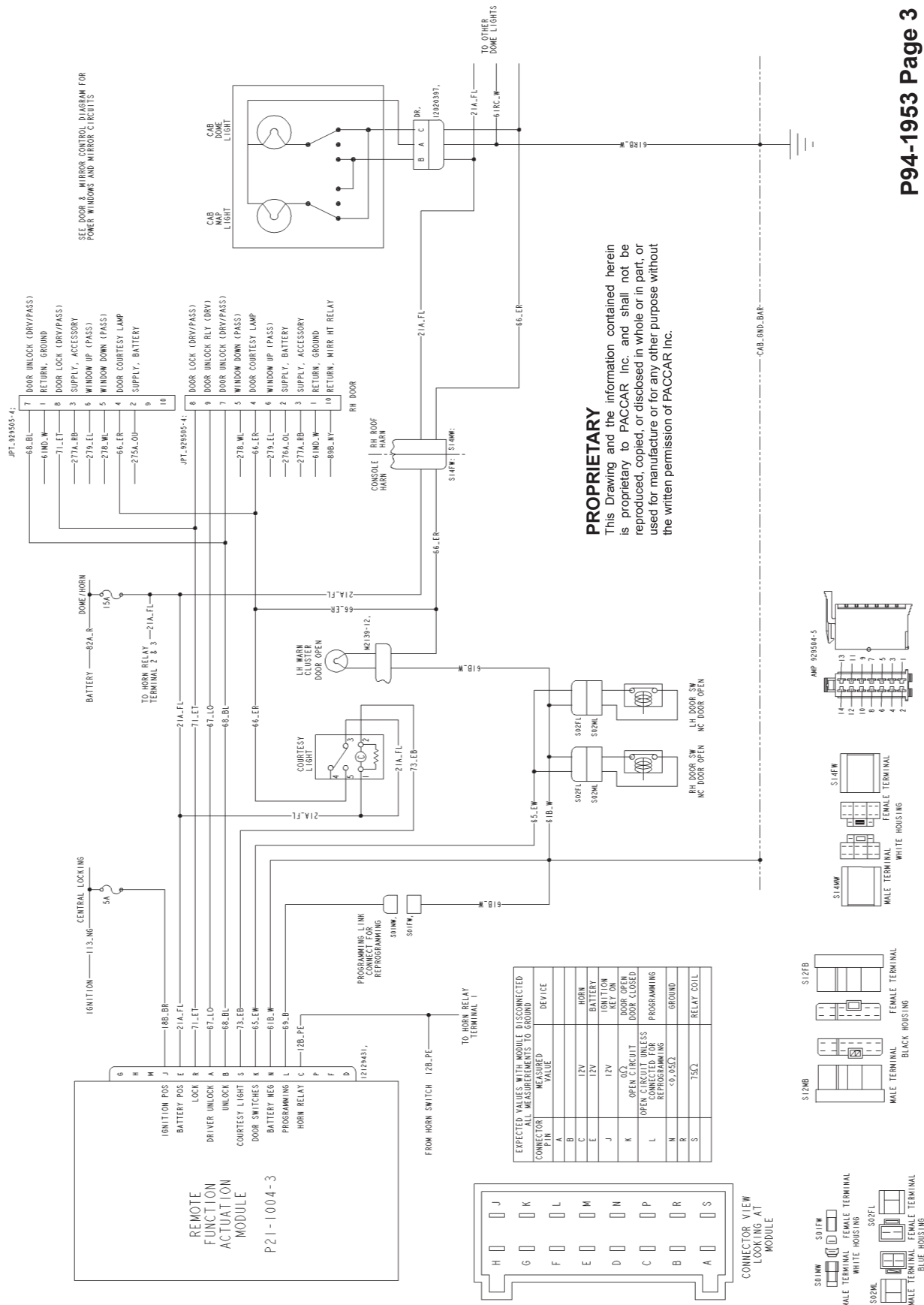
P94-2000 Page 1 of 1

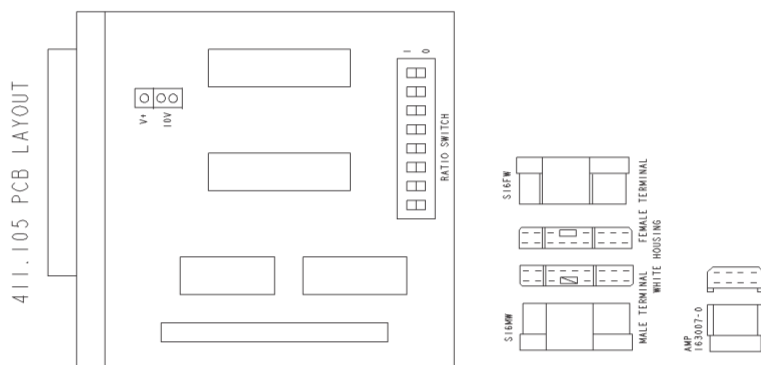
TrailerPower Distribution Box - Phillips

SYMBOLS USED		WIRE COLOURS	
RECEPTACLE		PLUG	
SEPARATE CIRCUITS		CONNECTED CIRCUITS	
BULLET CONN		WIRE COLOURS — BLACK, BROWN, BLUE, LIGHT BLUE, GREEN, PINK, RED, PURPLE, YELLOW, ORANGE, GREEN, F=LIGHT GREEN, T=TAN, W=WHITE ETC.	EXAMPLES: G=GREEN WIRE WITH A YELLOW TRACE.
FEMALE		MALE	
FUSE		CIRCUIT BREAKER	
10A		50A	
FUSE		CIRCUIT BREAKER	
CAB		EARTH	
IN LINE FUSE		MICRO RELAY	



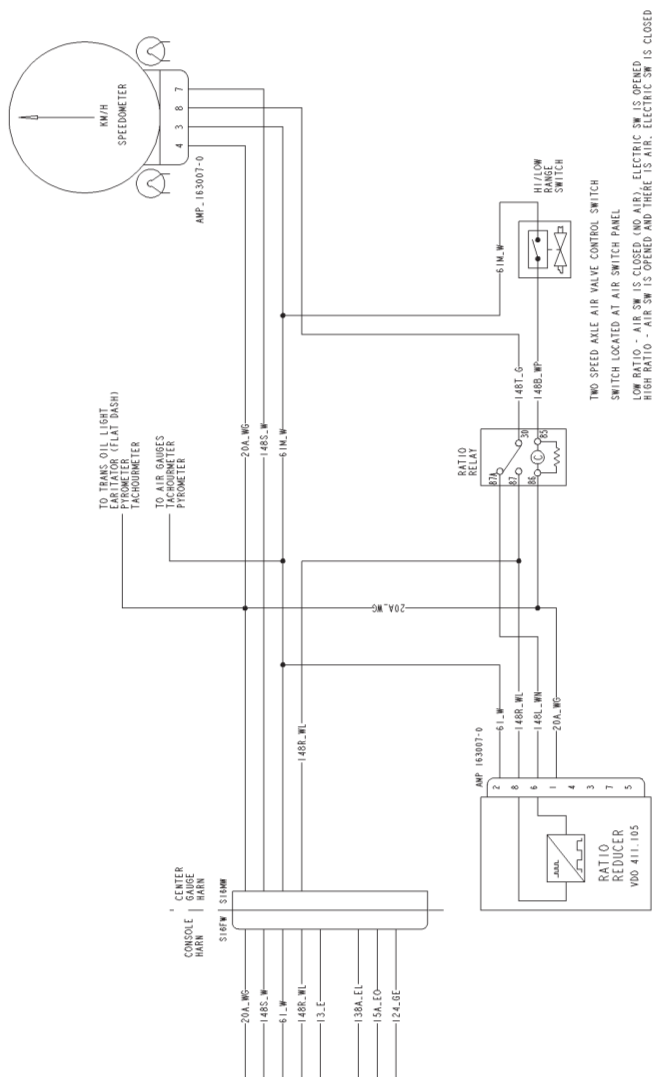




**PROPRIETARY**

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Two Speed Axles

**TWO SPEED AXLE RATIO CALIBRATION PROCEDURE**

REMOVE THE 4 SCREWS ON THE MODULE AND REMOVE THE PCB FROM THE HOUSING.

WORK OUT THE SWITCH SETTINGS AS PER THE PROCEDURE BELOW.

EXAMPLE CALCULATION :-

HIGH BEAR AXLE RATIO = 4.88

LOW BEAR AXLE RATIO = 6.84

USE THIS FORMULA TO WORK OUT THE RATIO.

RATIO = $\frac{\text{HIGH BEAR AXLE RATIO}}{\text{LOW BEAR AXLE RATIO}} = \frac{4.88}{6.84} = 0.734$

LOOK UP THE RATIO TABLE TO OBTAIN THE SWITCH SETTINGS.

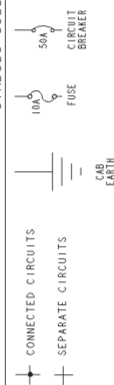
SWITCH SETTINGS FOR 0.734 RATIO IS 0011011.

SET THE SWITCHES ON THE PCB. (0 IS DOWN)

IF THE RATIO VALUE IS NOT FOUND IN THE TABLE CONTACT YOUR RW DEALER.

INSERT PCB INTO HOUSING AND SECURE WITH FOUR SCREWS.

RATIO	SWITCH SETTING
0.4250	00110010
0.4375	00110011
0.4500	00110100
0.4625	00110101
0.4750	00110110
0.4875	00110111
0.5000	00111000
0.5125	00111001
0.5250	00111010
0.5375	00111011
0.5500	00111100
0.5625	00111101
0.5750	00111110
0.5875	00111111
0.6000	01000000
0.6125	01000001
0.6250	01000010
0.6375	01000011
0.6500	01000100
0.6625	01000101
0.6750	01000110

SYMBOLS USED**WIRE COLOURS**

WIRE COLOURS - B-BLACK N-BROWN L-BLUE K-LIGHT BLUE
R-RED P-PINK S-SILVER T-TEAL U-ULTRAVIOLET V-VIOLET
F-LIGHT GREEN G-GRASS W-WHITE Y-YELLOW Z-ZINC
EXAMPLES: 01-GREEN WIRE WITH A YELLOW TRACE.