

X-7205

GMC TRUCK WIRING DIAGRAMS



THE TRUCK PEOPLE FROM GENERAL MOTORS

**ALL MODELS
BUILT AFTER
AUGUST 2, 1971**

**GMC TRUCK & COACH DIVISION
GENERAL MOTORS CORPORATION
Pontiac, Michigan**

INTRODUCTION

This booklet contains Wiring Diagrams for GMC Trucks built after August 2, 1971.

To determine which diagrams are applicable to a specific truck series, refer to the "Wiring Diagram Index" which follows. For convenience, the index is divided into four groups in the following order: "Gasoline Engine Models," "GMC (Turbium) Diesel Models," "Detroit Diesel Models," and "Cummins Diesel Models."

NOTE: Five diagrams (T-7305 through T-7309-1) do not appear in the index. These are schematic diagrams of "Body Builder's Connections."



THE TRUCK PEOPLE FROM GENERAL MOTORS

GMC TRUCK & COACH DIVISION

GENERAL MOTORS CORPORATION

Pontiac, Michigan

WIRING DIAGRAM INDEX

Diagrams are Bound in Numerical (MD No. and "T" No.) Sequence

GASOLINE ENGINE MODELS

TRUCK SERIES	CAB, ENGINE, & CHASSIS	FOOTNOTES
CE/CS-1500 (03-04-06-14-16-34)	T-9333	(1)
GE-1500 (05-06-36)	T-9335	
GS-1500 (05-06)	T-9335	
KE/KS-1500 (04-06-14-16-34)	T-9333	(1)
PS-1500 (35-42)	T-9336	(2)
CE/CS-2500 (03-04-06-34); CE-2500 (16)	T-9333	(1)
GE/GS-2500 (05-06); GE-2500 (36)	T-9335	
KE-2500 (03-04-06-16-34)	T-9333	(1)
KS-2500 (03-04-34)	T-9333	(1)
PE/PS-2500 (35-42-55)	T-9336	(2)
CE/CS-3500 (02)	T-9337	(1)
CE/CS-3500 (03-04-34)	T-9333	(1)
GE/GS-3500 (05-06); GE-3500 (36)	T-9335	
PE-3500 (32)	T-9338	(3)
PE-3500 (35-42-55)	T-9336	(4)
PS-3500 (35-42-55)	T-9336	(3)
CE/CS-4500 (02)	MD-8417	
CE/CS-4500 (03)	MD-8443	
CE-5500 (02); CS-5500 (02)	MD-8417	
CE/CM/CS-5500 (03); CE-5500 (13)	MD-8443	(5)
SE/SM/SS-5500 (02); SE/SM-5500 (62)	MD-8441	
TE/TM-5500 (03)	MD-7890	
CE-6500 (02)	MD-8417	
CE/CM/ME-6500 (03-13)	MD-8443	(5)
TE/TM-6500 (03-13)	MD-7890	
HM/JM-7500 (03)	MD-7736	
HM/JM-7500 (13)	MD-7737	
RM-7500 (52) With Mechanical Trans.	MD-6321	(6)
RM-7500 (52) With Allison Transmission	MD-7565	(7)
TM/WM-7500 (13); TM-7500 (03)	MD-7890	
HM-8721B	MD-7917	
HE/JE-9500	MD-7742	
TE-9500	MD-6431	

WIRING DIAGRAM INDEX (CONT'D)

GMC TURBIUM DIESEL ENGINE MODELS

TRUCK SERIES	CAB, ENGINE, & CHASSIS	FOOTNOTES
CG-5500 (03-13)	MD-8443	
CG-5500 (13)	MD-8443	(5)
SG-5500 (02-62)	MD-8441	
TG-5500 (03-13)	MD-7885	

DETROIT DIESEL ENGINE MODELS

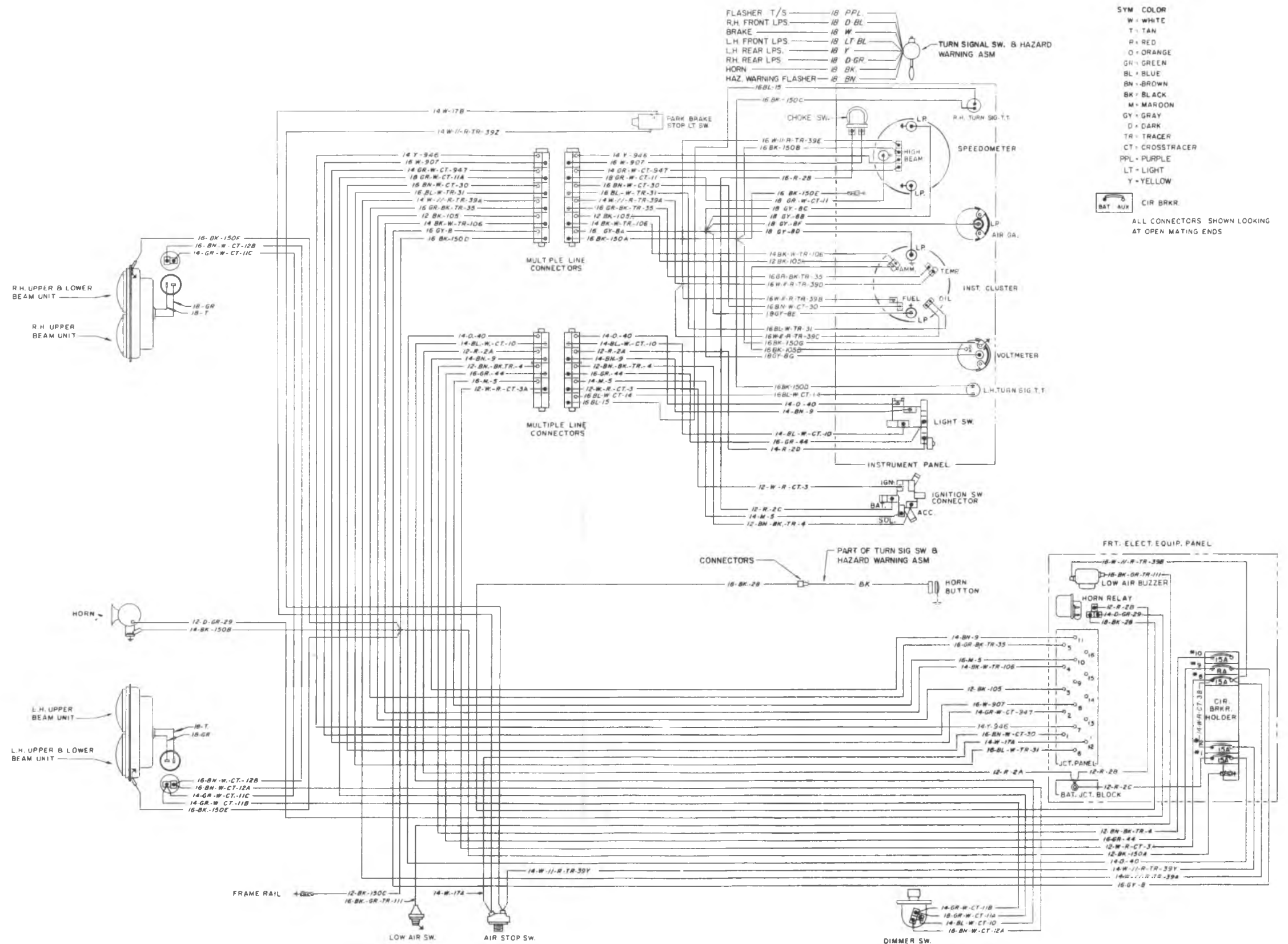
HV/JV-7500 (13)	MD-7739
TV/WV-7500 (13)	MD-6430
HH/JH-9500	MD-7743
HI/JI/MH-9500	MD-7772
DH/DI/FH/FI-9502	MD-7591
DP-9502	MD-8325

CUMMINS DIESEL ENGINE MODELS

HC/JC-9500	MD-7773
HN/JN-9500	MD-7749
JB/MB/MC-9500	MD-8164
DB/FB-9502	MD-8162
DC/DN/FC/FN-9502	MD-7592

FOOTNOTES FOR MISC. R.P.O. EQUIPMENT

FOOTNOTE NO.	DIAGRAM TITLE	DIAGRAM NO.
1	Miscellaneous R.P.O. Equipment	T-9334
2	Engine Wiring With T.C.S.	T-9339
3	Engine Wiring Without T.C.S.	T-9340
4	Engine Wiring	T-9341
5	Trailer, 7 Wire Light Cable With Brake Controls	MD-8440
6	Instrument and Front End Wiring	MD-6320
7	Instrument and Front End Wiring—With Allison Trans.	MD-7566



SYM COLOR
 W = WHITE
 T = TAN
 Y = YELLOW
 GR = GREEN
 R = RED
 BK = BLACK
 BL = BLUE
 M = MAROON
 N = NATURAL
 CT = CROSSTRACER
 TR = TRACER
 // = PARALLEL

NOTES #1 DESIGNATED CIRCUIT FOR 61 AMP GEN.-STD.
 62 AMP GEN.-R.P.O.-K81
 #2 DESIGNATED CIRCUIT FOR 130 AMP GEN.-R.P.O.-L05
 A VOLT. REGULATOR USED WITH 61 AMP GEN.-STD.
 B VOLT. REGULATOR USED WITH 130 AMP GEN.-R.P.O.-L05
 MASTER CIRCUIT BREAKER 70A (SEE NOTE #1)
 90A (SEE NOTE #2)

BAT. C. AUX. CIRCUIT BREAKER

FRAME RAIL GROUND

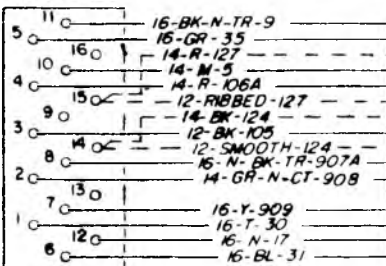
* ALL CONNECTORS SHOWN
 LOOKING INTO OPEN MATING ENDS
 DOTTED LINES DENOTE R.P.O.
 WIRING OR PARTS

AXLE SHIFT
 MTR. SW.

HI.
 LO.

FRT. ELECT. EQUIP. PANEL
 (SEE FRT. END WIRING DIAGRAM)

JCT. PANEL



BATT. JCT. BLOCK

FUEL GA.
 TANK UNIT

AMMETER
 SHUNT

3 WAY CONN.

RED SLEEVE

SEE NOTE C

REAR ELECT. EQUIP. PANEL

IGN. COIL
 RESISTOR

STARTER
 MAG. SW.

CHOKE
 RELAY

ENG. CONT.
 SW.
 SHOWN IN
 NORMAL
 POSITION

STARTER
 SW.

CHOKE
 SW.

10-AMP LINE FUSE

BATTERY
 (12V.)

ENGINE

TEMP. GA.
 SENDER UNIT

ENG.

SPEEDO.
 GEN.

16-BK-150

SPEEDO.
 ADAPTER

OIL PRESS. GA.
 SENDER UNIT

16-BK-31

DISTRIBUTOR
 FIRING ORDER
 1-6-5-4-3-2

COIL

BACKUP LAMP SW.

10-BK-6

4-BK-2A

1 BAT. CABLE

16-BK-7

SOL. STARTER

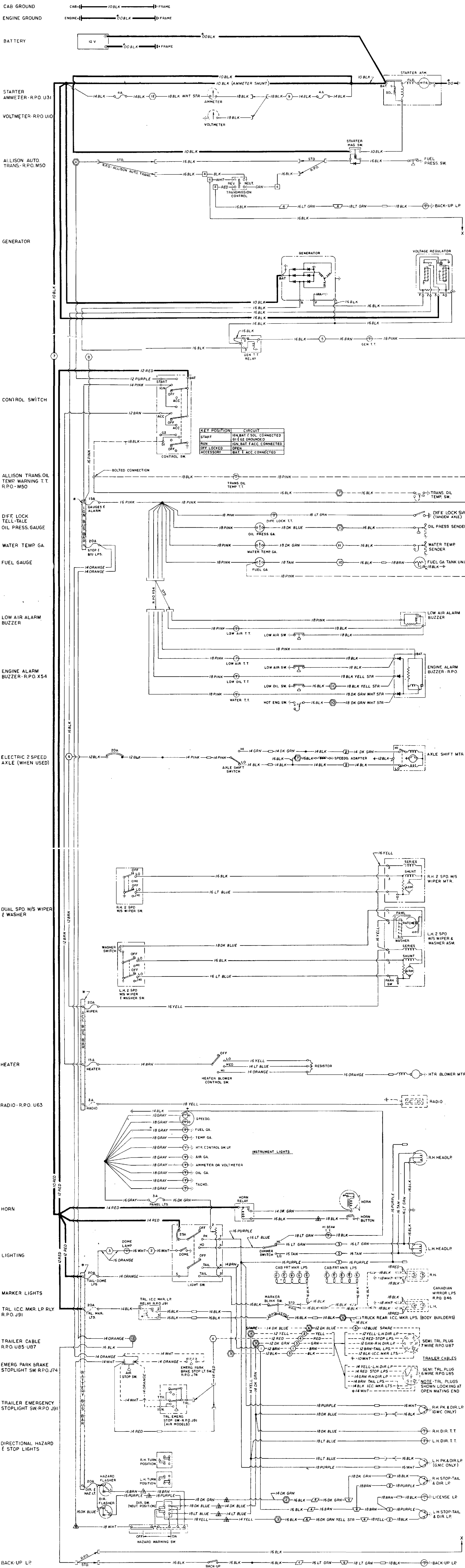
15-BLK-24

16-BK-17

16-BK-9

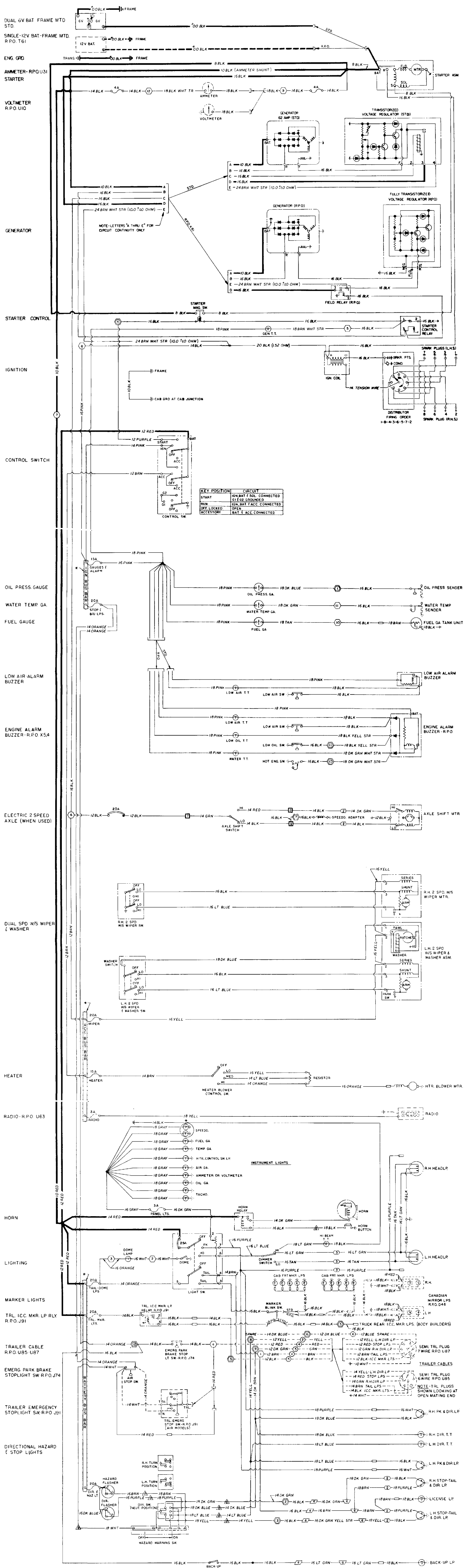
STOP & TAIL LAMP

CONNECTOR * X



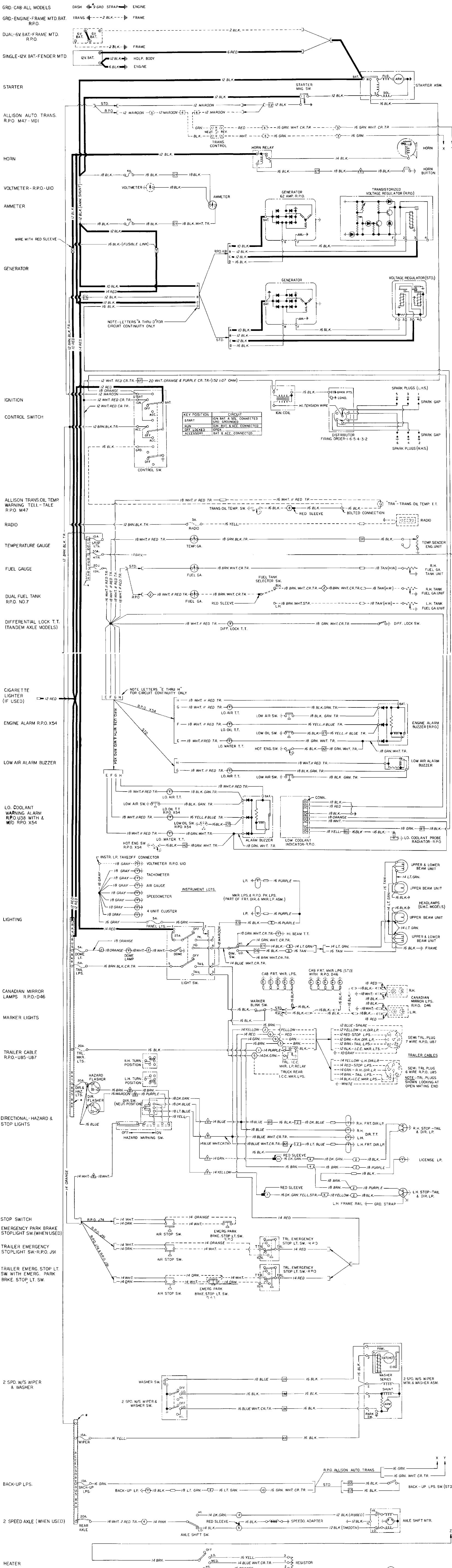
SYMBOL	JUNCTION	FUNCTION	LOCATION
○	12 POST JCT BLOCK (1 THRU 12) L.H.	INSTR. PANEL HORN TO INSTR. PANEL DOME LP	CAB JCT. BELOW FLOOR AT L.H. FRNT. STEP RISER
⊗	12 POST JCT BLOCK (1 THRU 12) R.H. WIRES WITH RED SLEEVE	WIRE ASM. & TRL. WRG. HARN.	UNDER CAB AT CAB REAR
○	6 POST JCT BLOCK (1 THRU 6)	TRL. WRG. HARN. TO TRL. CABLE ASM.	UNDER INSTR. PANEL AT STEERING COLUMN
△	5WAY MULTIPLE CONNECTOR	DIRECT SW. ASM. TO INSTR. PNL. HARN.	BELOW FLOOR AT L.H. HDLP. ASM.
③	3WAY MULTIPLE CONNECTOR	INSTR. PANEL HARN. TO HDLP. & PARK LP. HARN.	L.H. FRAME RAIL AT BACK OF CAB
④	4WAY MULTIPLE CONNECTOR	ENG. HARN. TO STOP-TAIL LP. FRNT. EXT. HARN.	L.H. FRAME RAIL AT BACK OF CAB
⑤	4WAY MULTIPLE CONNECTOR	STOP-TAIL LP. FRNT. EXT. HARN. TO REAR STOP-TAIL LP. HARN.	L.H. FRAME RAIL AT BACK OF CAB
⑥	2WAY MULTIPLE CONNECTOR	REAR STOP-TAIL LP. HARN. TO STOP-TAIL LP. ASM.	AT STOP-TAIL LP. ASM.
⑦	2WAY MULTIPLE CONNECTOR	ENG. HARN. TO AXLE SHIFT MTR. CABLE	L.H. FRAME AT BACK OF CAB
⋈	BUS BAR PART OF FUSE BLOCK - FUSE BLOCK PART OF INSTR. PANEL HARN. ASM.		
—	FUSE		FUSE BLOCK - INSIDE CAB L.H. SIDE COWL PANEL
—	CIRCUIT BREAKER		CAB JCT. BELOW FLOOR AT L.H. FRNT. STEP RISER
—	SINGLE LINE CONNECTOR		
○	TERMINAL OR CONNECTOR TERMINATION		RELATED CIRCUITS
•	SPLICE		
—	LINE FUSE		
---	BROKEN LINES & SPECIFIED R.P.O. DENOTE WRG. & PARTS OTHER THAN STD. & NOT IN STD. WRG. HARN. ASM.		
④	4WAY MULTIPLE CONNECTOR	ENG. HARN. TO TRANS. CONTROL ASM.	ON CONTROL ISLAND PNL.

Cab, Engine and Chassis Wiring-TV/WV-75013
(See opposite side for MD-6431)



Cab, Engine and Chassis Wiring—TE-9500

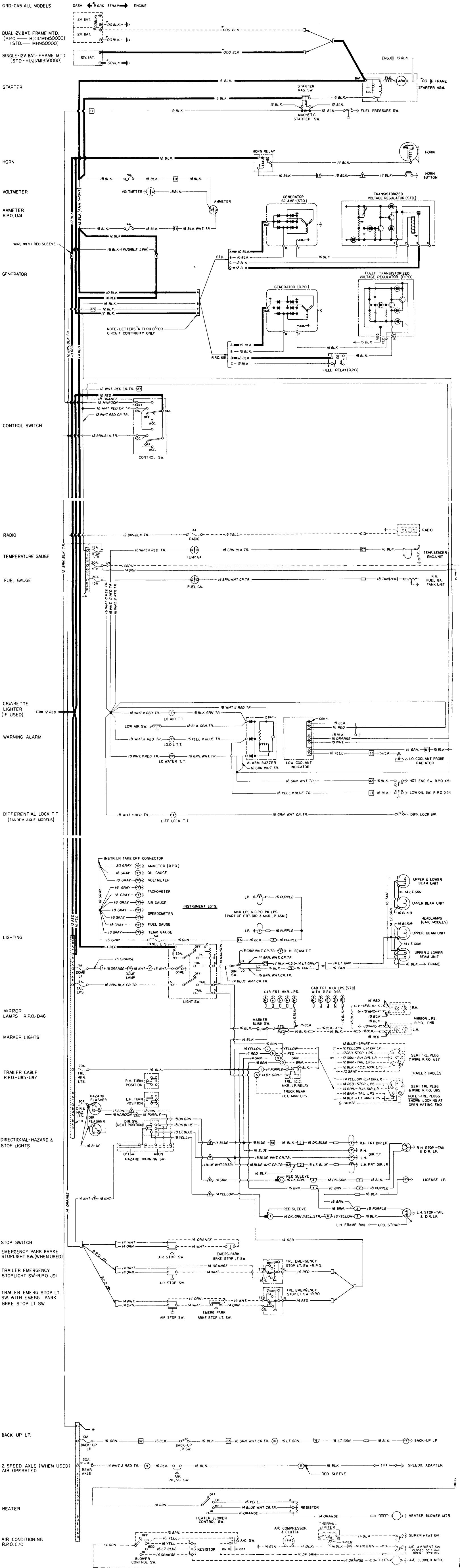
MD-6437



SYMBOL	FUNCTION	LOCATION
[Symbol]	THRU	LETTERED TERM. WIRE CAVITY AT WIRE END OF 32 WAY CONN. (PART OF INSTR. PNL. HARN. ASM.)
[Symbol]	TERM. JCT. STUD INNER L.H.	INSTR. PNL. HARN. TO ENG. HARN.
[Symbol]	TERM. JCT. STUD OUTER R.H.	ENG. COMPARTMENT - DASH PANEL - UPPER R.H. SIDE
[Symbol]	2 WAY MULTIPLE CONNECTOR	INSTR. PANEL HARN. TO DOME L.P. WIRE ASM.
[Symbol]	8 WAY MULTIPLE CONNECTOR	INSTR. PANEL HARN. TO DIR. SW. HARN.
[Symbol]	2 WAY MULTIPLE CONNECTOR	FUEL TANK SELECTOR SW. WIRE TO FUEL GAUGE TO INSTR. PANEL HARN.
[Symbol]	3 WAY MULTIPLE CONNECTOR	ENG. HARN. TO HD. L.P. & PARKING L.P. HARN.
[Symbol]	2 WAY MULTIPLE CONNECTOR	STOP & TAIL L.P. FR. EXT. HARN. TO REAR STOP & TAIL L.P. HARN.
[Symbol]	4 WAY MULTIPLE CONNECTOR	REAR STOP & TAIL L.P. HARN. TO STOP & TAIL L.P. ASM.
[Symbol]	SINGLE LINE CONNECTOR	RELATED CIRCUITS
[Symbol]	12 POST JCT. BLOCK (1 THRU 12)	INSTR. PANEL HARN. TO
[Symbol]	LINE FUSE	CIRCUIT PROTECTOR FOR VOLTMETER ALSO ANMMETER (WHEN USED)
[Symbol]	TERM. OR CONNECTOR TERMINATION	RELATED CIRCUITS
[Symbol]	SPLICE	RELATED CIRCUITS
[Symbol]	FUSE	FUSE BLOCK
[Symbol]	CIRCUIT BREAKER	FUSE BLOCK
[Symbol]	BROKEN LINES & SPECIFIED R.P.O. DENOTE WRG. & PARTS OTHER THAN STD. & NOT IN STD. WIRG. HARN. ASM.	
[Symbol]	BUS BAR PART OF FUSE BLOCK - FUSE BLOCK PART OF INSTR. PANEL HARN. ASM.	
[Symbol]	4 WAY MULTIPLE CONNECTOR	ALLISON TRANS. AUX. INSTR. PNL. HARN. TO TRANS. CONTROL CONN.
[Symbol]	3 WAY MULTIPLE CONNECTOR	ALLISON TRANS. AUX. INSTR. PNL. HARN. TO INSTR. PNL. HARN.

Cab, Engine and Chassis Wiring—HM/JM-7500(13)

MD-7737



SYMBOL	JUNCTION	FUNCTION	LOCATION
[Symbol]	THRU [Symbol]	LETTERED TERM WIRE CAVITY AT WIRE END OF 32 WAY CONN. (PART OF INSTR. PNL. HARN. ASM.)	INSTR. PNL. HARN. TO ENG. HARN.
[Symbol]	TERM JCT. STUD INNER (L.H.)		ENG. COMPARTMENT - DASH PANEL - UPPER R.H. SIDE
[Symbol]	TERM JCT. STUD OUTER (R.H.)		UNDER INSTR. PANEL AT STEERING COLUMN
[Symbol]	8 WAY MULTIPLE CONNECTOR	INSTR. PANEL HARN. TO DIR. SW. HARN.	AT 12 POST JCT. BLOCK INSIDE CAB - R.H. REAR SIDE
[Symbol]	2 WAY MULTIPLE CONNECTOR	INSTR. PANEL HARN. TO DOME LP. WIRE ASM.	AT HEADLAMP ASM.
[Symbol]	3 WAY MULTIPLE CONNECTOR	ENG. HARN. TO HD. LP. & PARKING LP. HARN.	AT STOP & TAIL LP. ASM.
[Symbol]	4 WAY MULTIPLE CONNECTOR	STOP & TAIL LP. FRT. EXT. HARN. TO REAR STOP & TAIL LP. HARN.	L.H. FRAME RAIL (REAR)
[Symbol]	2 WAY MULTIPLE CONNECTOR	REAR STOP & TAIL LP. HARN. TO STOP & TAIL LP. ASM.	AT STOP & TAIL LP. ASM.
[Symbol]	SINGLE LINE CONNECTOR	RELATED CIRCUITS	
[Symbol]	12 POST JCT. BLOCK (1 THRU 12)	INSTR. PANEL HARN. TO STOP & TAIL LP. FRT. EXT. HARN.	INSIDE CAB R.H. REAR SIDE
[Symbol]	LINE FUSE	CIRCUIT PROTECTOR FOR VOLTMETER ALSO AMMETER (WHEN USED)	AT 32 WAY BULKHEAD CONNECTOR
[Symbol]	TERM OR CONNECTOR TERMINATION	RELATED CIRCUITS	
[Symbol]	FUSE	FUSE BLOCK	IN GLOVE BOX COMPARTMENT
[Symbol]	CIRCUIT BREAKER		

Cab, Engine and Chassis Wiring—H/J/J/MH-9500
(See opposite side for MD-7773)

MD-7772

DUAL 6V BAT FRAME MTD.
R.P.O. T66 (TM/WM7500A)

BATTERY

STARTER
AMMETER -R.P.O. U31
VOLTMETER-R.P.O. U10

ALLISON AUTOMATIC
TRANSMISSION-R.P.O.

GENERATOR

IGNITION

CONTROL SWITCH
ELECTRIC TACHO.
R.P.O. U16
MODELS TS & TE

ALLISON TRANS.OIL
TEMP WARNING T.T.
R.P.O. M47

ENGINE OVERSPEED
TELL-TALE

DIFF LOCK
TELL-TALE

OIL PRESS. GAUGE

WATER TEMP GA.

FUEL GAUGE

LOW AIR WARNING
TELL-TALE

LOW OIL WARNING
TELL-TALE

LOW AIR ALARM
BUZZER

ENGINE ALARM
BUZZER-R.P.O. X54

ELECTRIC 2 SPEED
AXLE (WHEN USED)

DUAL SPD W/S WIPER
& WASHER

HEATER

RADIO-R.P.O. U63

HORN

LIGHTING

MARKER LIGHTS

TRL. ICC. MKR. LP RLY.
R.P.O. J91

EMERG. PARK BRAKE
STOPLIGHT SW-R.P.O. J69
(R.P.O. U85)

TRAILER CABLE
R.P.O. U85-U87

EMERG. PARK BRAKE
STOPLIGHT SW-R.P.O. J69

TRAILER EMERGENCY
STOPLIGHT SW-R.P.O. J91
(AIR MODELS ONLY)

DIRECTIONAL HAZARD
& STOP LIGHTS

BACK-UP LP

CIRCUIT
IDENTIFICATION

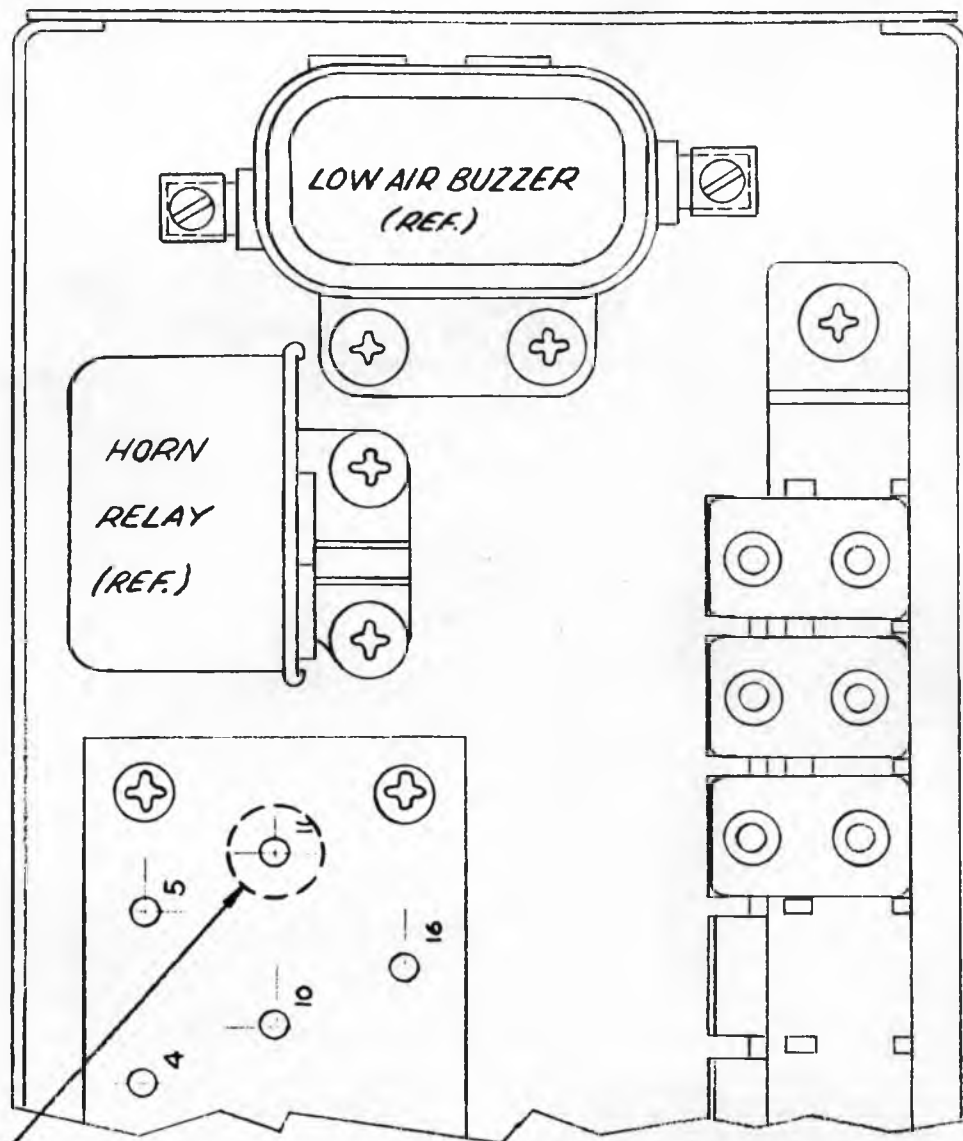
LEGEND

SYMBOL	JUNCTION	FUNCTION	LOCATION
3	3 POST JCT BLOCK (1 THRU 3)	ENG HARN TO SHIFT SW JCT CABLE TO AXLE SHIFT SW	ON CONTROL ISLAND PNL SUPT FRT SILL BRKT
12	12 POST JCT BLOCK (1 THRU 12) L.H.	INSTA PANEL HARN TO ENG. HARN. DOME LP	CAB JCT BELOW FLOOR AT L.H. FRT. STEP RISER
12	12 POST JCT BLOCK (1 THRU 12) R.H. WIRES WITH RED SLEEVE	TRL. WRG. HARN. TO TRL. CABLE ASM	UNDER CAB AT CAB REAR
6	6 POST JCT BLOCK (1 THRU 6)	DIRECT SW ASM TO INSTR. PNL. HARN.	UNDER INSTR. PANEL AT STEERING COLUMN
8	8 WAY MULTIPLE CONNECTOR	INSTA. PANEL HARN. TO HDLP & PARK LP HARN	BELOW FLOOR AT L.H. HDLP ASM
4	4 WAY MULTIPLE CONNECTOR	ENG. HARN. TO STOP-TAIL LP. FRT. EXT. HARN	L.H. FRAME RAIL AT BACK OF CAB
4	4 WAY MULTIPLE CONNECTOR	STOP-TAIL LP. FRT. EXT. HARN. TO REAR STOP-TAIL LP. HARN	L.H. FRAME RAIL AT REAR AXLE
2	2 WAY MULTIPLE CONNECTOR	REAR STOP-TAIL LP. HARN. TO STOP-TAIL LP. ASM	AT STOP-TAIL LP. ONLY
2	2 WAY MULTIPLE CONNECTOR	INSTA. PANEL HARN. TO ENG. HARN.	CAB JCT. BELOW FLOOR AT L.H. FRT. STEP RISER (TS & TE MODELS ONLY)
2	2 WAY MULTIPLE CONNECTOR	ENG. HARN. TO AXLE SHIFT MTR. CABLE	L.H. FRAME AT BACK OF CAB
FUSE			FUSE BLOCK-INSIDE CAB L.H. SIDE COWL PANEL
BAT. AUX.			CAB JCT. BELOW FLOOR AT L.H. FRT. STEP RISER
SINGLE LINE CONNECTOR			
TERMINAL OR CONNECTOR TERMINATION			
SPLICE			RELATED CIRCUITS
LINE FUSE			
BROKEN LINES & SPECIFIED R.P.O. DENOTE WRG. & PARTS OTHER THAN STD. & NOT IN STD. WRG. HARN. ASM.			
BUS BAR PART OF FUSE BLOCK-FUSE BLOCK PART OF INSTR. PANEL HARN. ASM			
4	4 WAY MULTIPLE CONNECTOR	ENG. HARN. TO TRANSMISSION CONTROL ASM.	ON CONTROL ISLAND PNL
4	4 WAY MULTIPLE CONNECTOR	TRANS. CONT. HARN. TO NEUT. START & SU. LP SW.	UNDER CONTROL ISLAND
4	4 WAY MULTIPLE CONNECTOR	ENG. HARN. TO TRANS. CONT. HARN.	BACK OF ENG.

Cab, Engine and Chassis Wiring-TE/TM-5500003;
TE/TM-6500003-13; TM/WM-7500

MD-7890

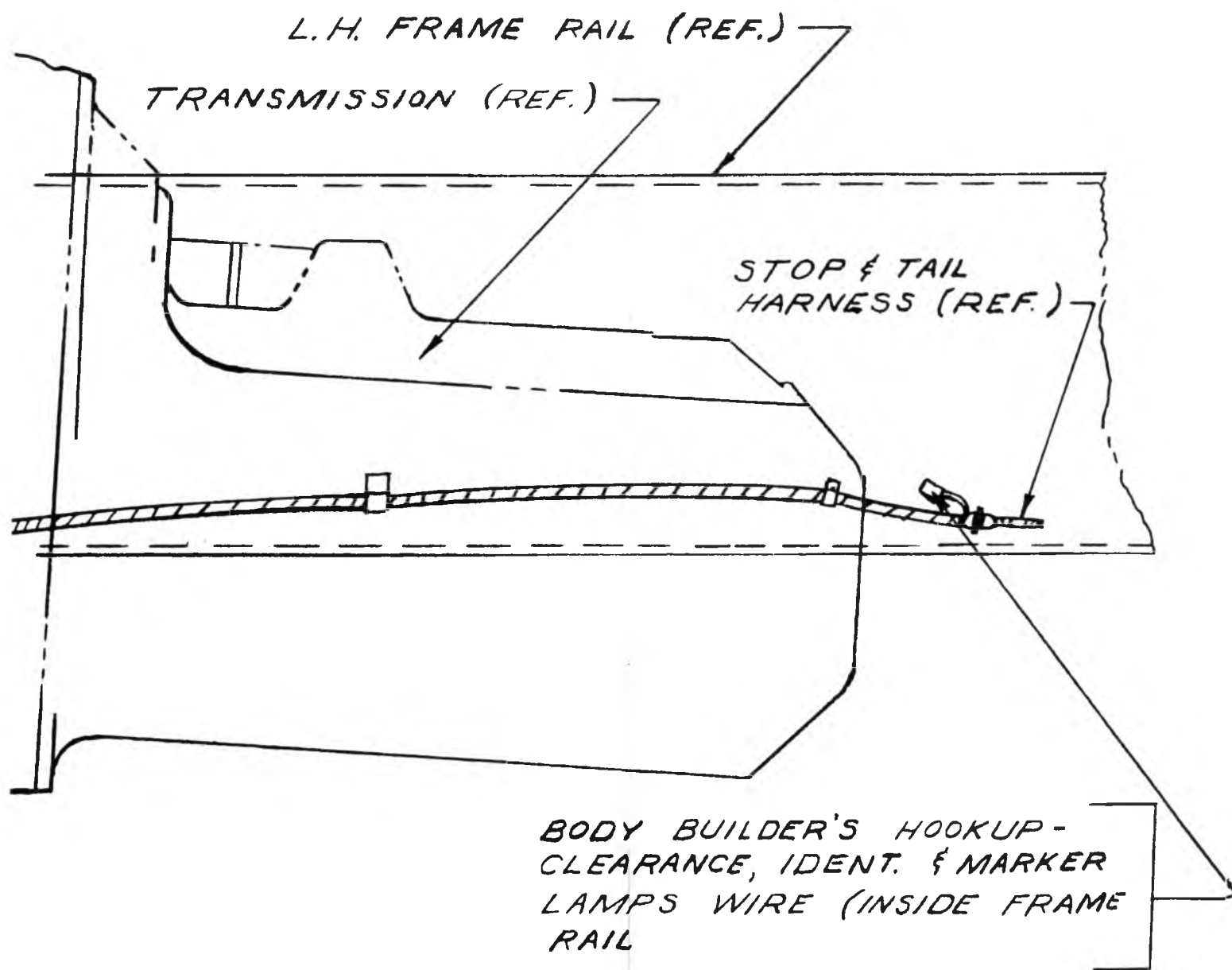
NOTE: WIRING DIAGRAMS
TE/TM-5500003-13
TE/TM-6500003-13
TM/WM-7500



BODY BUILDER'S HOOKUP - CLEARANCE, IDENT & MARKER LAMPS WIRE

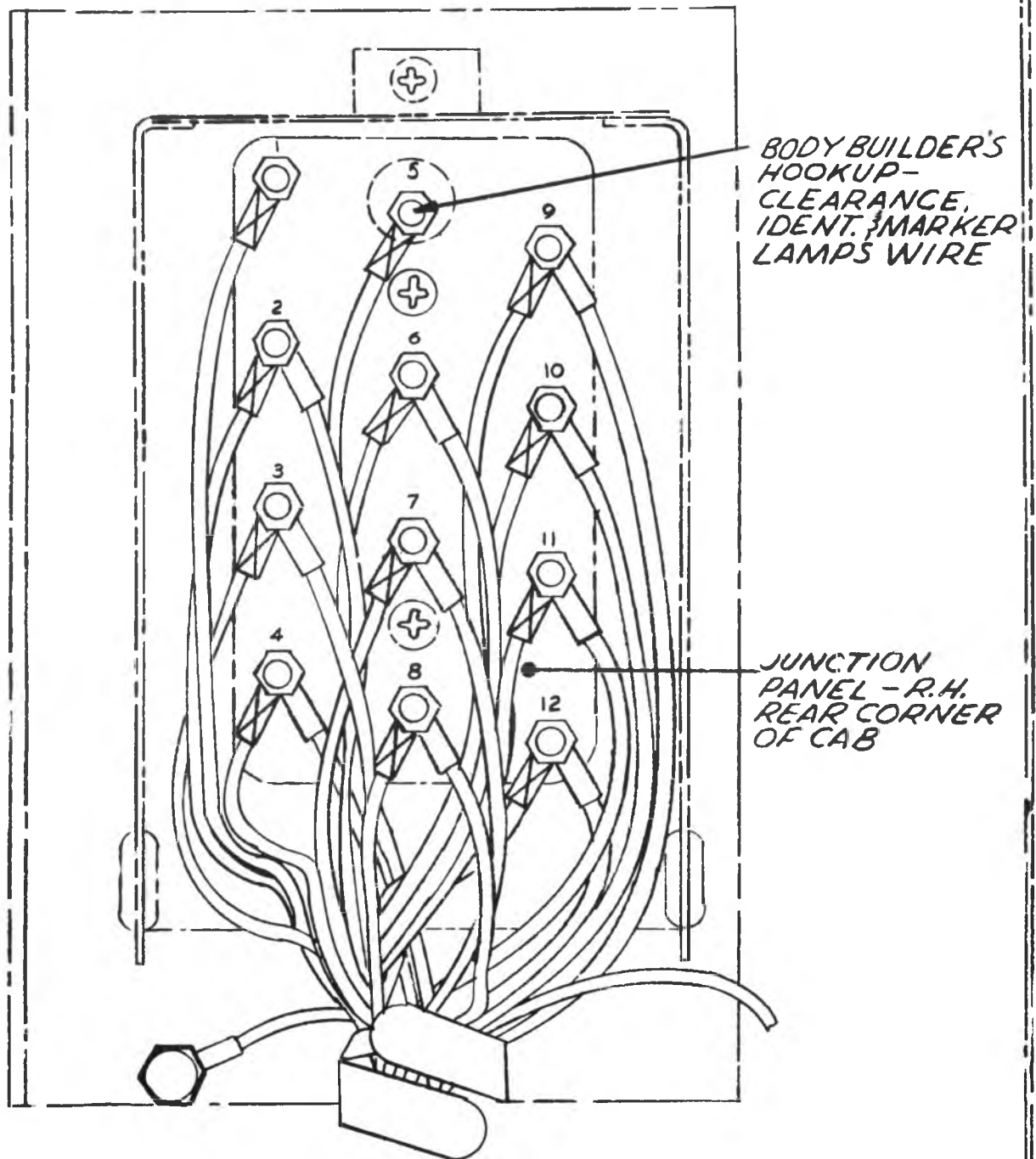
LOCATION - FRONT ELECTRICAL EQUIPMENT PANEL

Body Builder's Connections—"R" Models T-7305



Body Builder's Connections—Aluminum Tilt Cab Models
(See opposite side for T-7307)

T-7306



Body Builder's Connections—"H," "J," and "M" Models
(See opposite side for T-7309-1)

T-7308

