



STX275, STX325, STX375, STX425, STX450 Steiger Tractors

P.I.N. JEE0102001 and After

Service Manual

Rac 6-13290

MidWestTech | Case STX275, STX325, STX375, STX425, STX450 Steiger Tractor Service Manual | Publication 6-13290

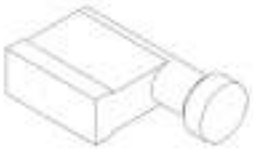
Order the manual at mid-west-tech.com >

Fuse Number	Circuit	Fuse Amperage
1	Ignition Switch	15
2	Radio / Dome / Map Lights	10
3	Open	
4	Accessory Power Ports	20
5	Horn	5
6	Electronic Flasher	20
7	FNRP Universal Switch	20
8	Service Tool	5
9	ICU / PMU Display	10
10	Open	
11	Electronic Engine Governor	30
12	Cigar Lighter	10
13	Open	
14	Open	
15	Worklights, Rear Roof	30
16	Worklights, Front Roof	30
17	Worklights, Interlock	10
18	Strobe Lamp	15
19	Seat Power	15
20	PTO / Starter Solenoids	10
21	Front / Rear Diff Locks	7.5
22	Electronic Engine Governor	5
23	Axle Lube Temperature Switch	5
24	Open	
25	HVAC Microprocessor B+	5
26	HVAC Module B+ ATC	30
27	Ether	10
28	Diode/Rear Diff Lock	1

Fuse Number	Circuit	Fuse Amperage
29	Front Wiper / Washer	20
30	Rear Wiper / Washer	20
31	Front Lower Wiper	30
32	Blower, Cab Pressurizer	15
33	Accessory Power Ports	20
34	Electric Mirrors / Radio	15
35	Open	
36	Data Bus	5
37	ICU / PMU Display	10
38	Open	
39	Park Brake	20
40	Open	
41	Open	
42	AFS / True Ground Speed Radar	10
43	Open	
44	Side Worklights	20
45	Center High Beam	15
46	Left High Beam	15
47	Right High Beam	15
48	Left Low Beam	15
49	Right Low Beam	15
50	Worklights, Rear Frame	25
51	Worklights, Rear Frame	25
52	Headlight / Tail / Position / Hazard	10
53	Impl Power Switch B+	20
54	Armrest	15
55	Rear Tail Lamps	10
56	Diode/Front Diff Lock	1

MidWestTech | Case STX275, STX325, STX375, STX425, STX450 Steiger Tractor Service... Order the manual at mid-west-tech.com >

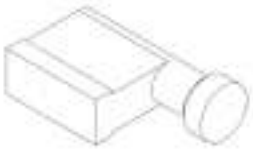
224 & 225
1/4 FLAG TERM
UT 371630-AL02
SOCKET



RI20E016

CONNECTOR 224		
RIGHT FRONT TURN SIGNAL		
CAV	WIRE NUMBER	CIRCUIT REFERENCE
1	48C	B+

224 & 225
1/4 FLAG TERM
UT 371630-AL02
SOCKET



RI20E016

CONNECTOR 225		
RIGHT FRONT TURN SIGNAL		
CAV	WIRE NUMBER	CIRCUIT REFERENCE
1	47B	GROUND

226
323464A1
PIN HARNESS
FNRP HARNESS



323464A1

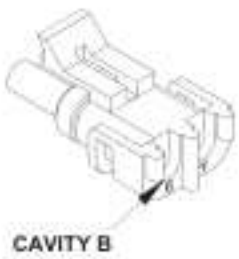
CONNECTOR 226		
LIMP HOME (CONNECTS TO 26)		
CAV	WIRE NUMBER	CIRCUIT REFERENCE
1	243	REV LIMP HOME
2	---	PLUG
3	239	FWD LIMP HOME
4	---	PLUG
5	---	PLUG
6	---	PLUG
7	345	4F/4R SOL GROUND
8	---	PLUG
9	---	PLUG
10	346	SF SOL GROUND
11	---	PLUG
12	---	PLUG

227F
245483C1
PIN HOUSING
WORKLAMP

245483C1

CONNECTOR 227F		
LH INNER FIELD LAMP		
CAV	WIRE NUMBER	CIRCUIT REFERENCE
A	LAMP WIRE	B+
B	LAMP WIRE	GROUND

227M
245482C1
SOCKET HOUSING
REAR FRAME
HARNESS



245482C1

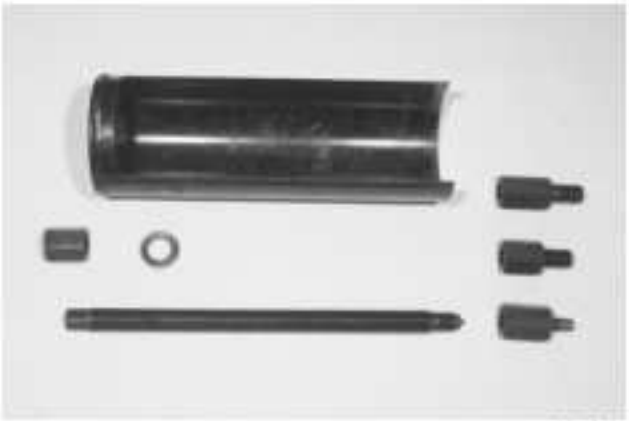
CONNECTOR 227M		
LH INNER FIELD LAMP		
CAV	WIRE NUMBER	CIRCUIT REFERENCE
A	143C	B+
B	GND AR	GROUND

Order the manual at mid-west-tech.com >

SPECIAL TORQUE VALUES

	Metric Value	U.S. Value
Oscillation Pin Retaining Bolts	215 to 245 Nm	160 to 180 lb ft
Tensioning Cylinder Hose Clamp Bolts	27 to 31 Nm	20 to 23 lb ft
Drive Wheel Mounting Bolts	515 to 570 Nm	380 to 420 lb ft
Alignment Plate Mounting Bolts	425 to 465 Nm	315 to 345 lb ft

SPECIAL TOOLS



MK30E074

CAS 2697 PIVOT PIN PULLER

Printed in U.S.A.

MidWestTech | Case STX275, STX325, STX375, STX425, STX450 Steiger Tractor Service... Order the manual at mid-west-tech.com >

FAULT CODE TRANS 56093 System Pressure is Out of Range High

Cause:
This fault code occurs when the transmission system pressure in the regulator valve is above 2413 kPa (350 PSI) or there is a failure in the pressure sensing circuit for more than one second.

Possible failure mode:

1. Regulated transmission system pressure too high.
2. Transmission pressure sensor failure.
3. Transmission pressure sensor wiring failure.
4. Transmission controller failure.

Solution:

The transmission controller measures the hydraulic pressure in the regulator valve with the transmission system pressure sensor. The valve distributes this regulated pressure to all clutch valves, the lube valve and the 4F clutch lube valve.

1. Determine whether the failure is with the hydraulic system or the electrical sensing circuit.
   A. The system hydraulic pressure can be viewed in the instrumentation controller display using TRANS VIEW and monitoring the Press screen or in the service tool by using the MONITOR window and selecting TRANS SYSTEM PRESSURE.
   B. With the tractor in park, slowly move the throttle lever from low idle to high idle and then from high idle to low idle. The pressure should increase with speed increase and decrease with speed decrease. If the pressure follows the change of the throttle, it is probably a hydraulic problem. If the pressure does not follow the change of the throttle, it is probably the sensor or its wiring that has failed.
2. Troubleshooting a hydraulic problem:
   If it is suspected that the problem is with the hydraulic system, check the function of the regulator valve.
   A. Install a pressure gauge on the transmission system (MAIN) pressure test port. With the tractor in park and the engine speed at high idle, the pressure should be less than 2068 kPa (300 PSI). If the pressure is too high, the hydraulic system is not functioning properly. Refer to the service manual for proper transmission hydraulic troubleshooting procedures.
   B. Compare the pressure gauge reading with the instrumentation controller display. If the display shows more than 70 kPa (10 PSI) greater than an accurate gauge, there is a problem with the pressure sensor wiring.
3. Troubleshooting an electrical problem. If it is suspected that the problem is with the electrical system, do the following:
   A. Check for an open circuit or high resistance connection in the ground wire. Measure the resistance from connector C044 cavity A to C157 cavity 9. If the resistance is greater than 2 ohms, troubleshoot the wiring for an open circuit or high resistance connection.
   B. Check for a short to power on the signal wire. Measure the voltage at C044 cavity C (harness side). There should be no voltage. If there is voltage, troubleshoot the wiring from C044 cavity C to C157 cavity 11 for a short to power.
   C. Check for a short to power on the power wire. Measure voltage at C044 cavity B. If the voltage is greater than 5.5 volts, the wire is shorted to an external power source or the transmission controller has failed.

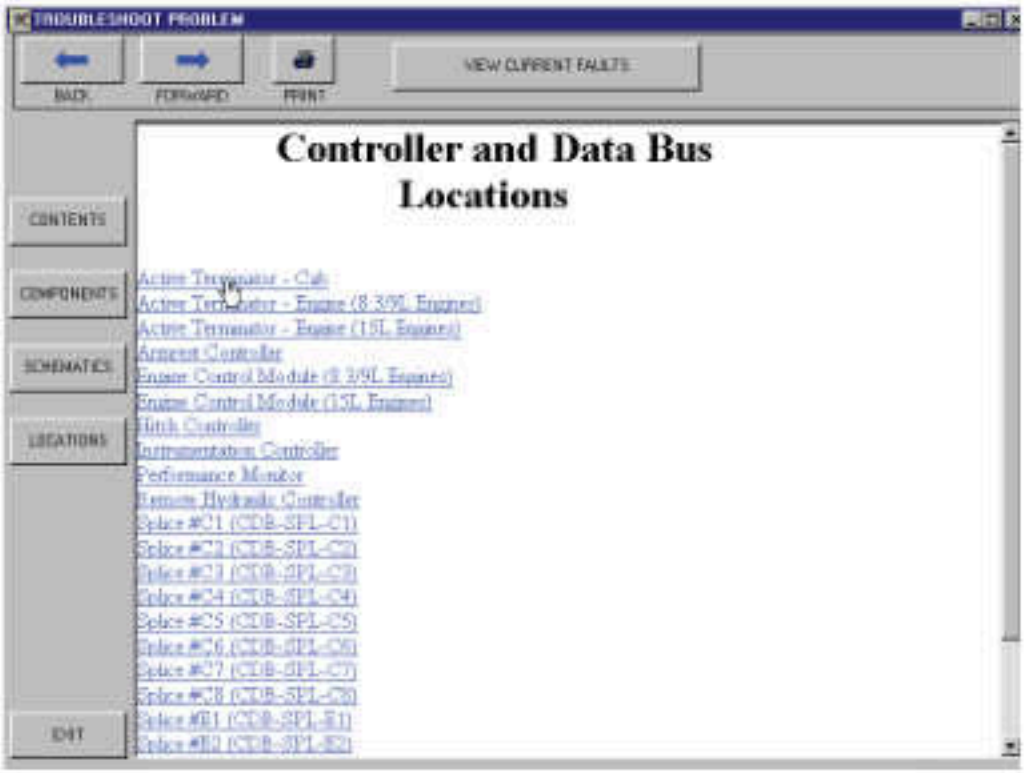
NOTE: *If the supply voltage to the sensor is greater than 5.5 volts, the sensor may have become permanently damaged. Replace the sensor.*

   D. Check controller function. Clear fault codes. Disconnect C044. Fault code 55094 should occur. Short C044 cavity B to cavity C. Fault code 55093 should occur. If not, the transmission controller has failed. Replace the controller.
   E. Replace the pressure sensor.

NOTE: *Always inspect connector ends for damaged, bent or dislocated pin when troubleshooting.*

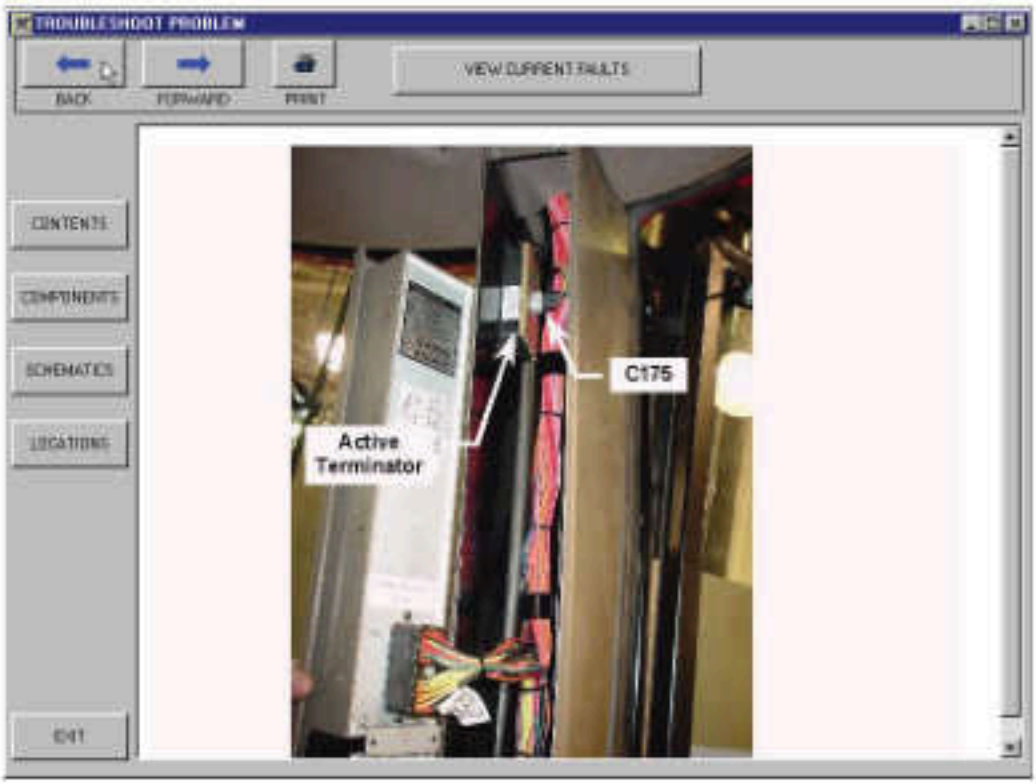
MidWestTech | Case STX275, STX325, STX375, STX425, STX450 Steiger Tractor Service... Order the manual at mid-west-tech.com >

Left Click Mouse On: Active Terminator - Cab



RZ00M231

Left Click Mouse On:BACK



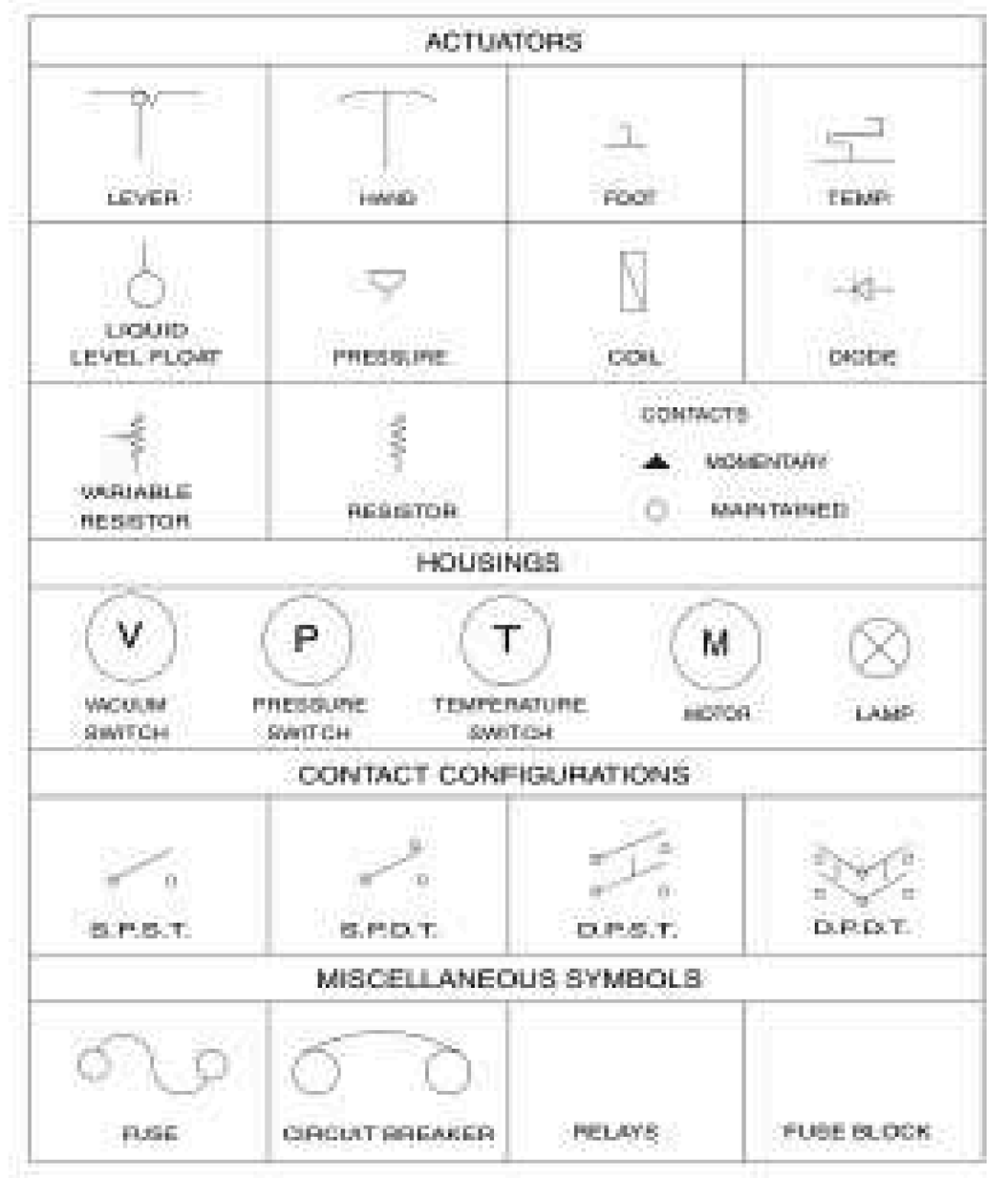
RZ00M232

MidWestTech | Case STX275, STX325, STX375, STX425, STX450 Steiger Tractor Service... Order the manual at mid-west-tech.com >

CIRCUIT DESCRIPTION	FRAME	CIRCUIT DESCRIPTION	FRAME
AIR CONDITIONING	59-62	-STANDARD FRONT LAMPS (STX)	30-31
ARMREST CONTROLLER	45-48	-STANDARD FRONT LAMPS (TJ)	30-31
AUXILIARY CONTROL SYSTEM	52-53	-OPTIONAL HIGH INTENSITY LAMP	30-31
AUXILIARY POWER CONN.-(IMPLEMENT)	67	-OPTIONAL CAB REAR ROOF	28
AXLE LUBE SYSTEM	44	-OPTIONAL REAR FENDER WORK	29
BLOWER MOTOR (CAB PRESSURE)	61	-OPTIONAL MARKER	33
BACKUP ALARM	36	-ROOF HEAD LIGHTS	29
CHARGING SYSTEM	19	-OPTIONAL MAP	68
CAB/CONTROLLER POWER	20	-STANDARD REAR FENDER	29
CIGAR LIGHTER	67	-STANDARD CAB FRONT ROOF	29
COMMUNICATIONS RADIO SYSTEM	66	-FENDER TAIL	32-33
CONSTANT SPEED CONTROL	56	-FENDER TURN SIGNAL	32-33
CNH DATA BUS (TRACTOR)	12-18	-ROOF WARNING NAO	32
DIFFERENTIAL LOCK	49	MEGAFLOW HYDRAULIC SYSTEM	54
ELECTRONIC ENGINE CONTROLLER	55-58	PERFORMANCE MONITOR	27
ETHER START	36	POWER DISTRIBUTION SYSTEM	20-23
FLASHER MODULE	32	POWER MIRRORS	64
FOOT DECELERATOR	58	PTO SYSTEM	19-20
FORWARD/NEUTRAL/REVERSE-SHUTTLE SYSTEM	34-35	RADIO ANTENNA (AM/FM/WB)	65
GPS SYSTEM	70-73	RADIO SOUND SYSTEM	65
HITCH CONTROL SYSTEM	50-51	ROTARY LIGHT SWITCH	28
HEADLIGHT SWITCH	29	SCHEMATIC LEGEND	1-11
HORN	36	-SYMBOL DEFINITIONS	2
HVAC CLIMATE CONTROL SYSTEM	59-62	SEAT	66
HYDRAULIC FAN DRIVE SYS (4WD/HP ONLY)	56	START / CRANK SYSTEM	19
IGNITION SWITCH	22	STEERING CONTROLLER SYSTEM	41-42
INSTRUMENT CLUSTER	24-26	TRAILER CONNECTOR (7-POLE)	33
LIGHTS-STANDARD HEAD LIGHTS	30-31	TRANSMISSION CONTROL SYSTEM	37-40
-BEACON/STROBE	43	WINDSHIELD WIPER/WASHER-FRONT	65
-DOME/CONSOLE/MAP	68	WINDSHIELD WIPER/WASHER-REAR	66

ELECTRICAL SCHEMATIC DIAGRAM
INF11575
NAO STX SERIES TRACTOR
POWERSHIFT VERSION

FRAME 1

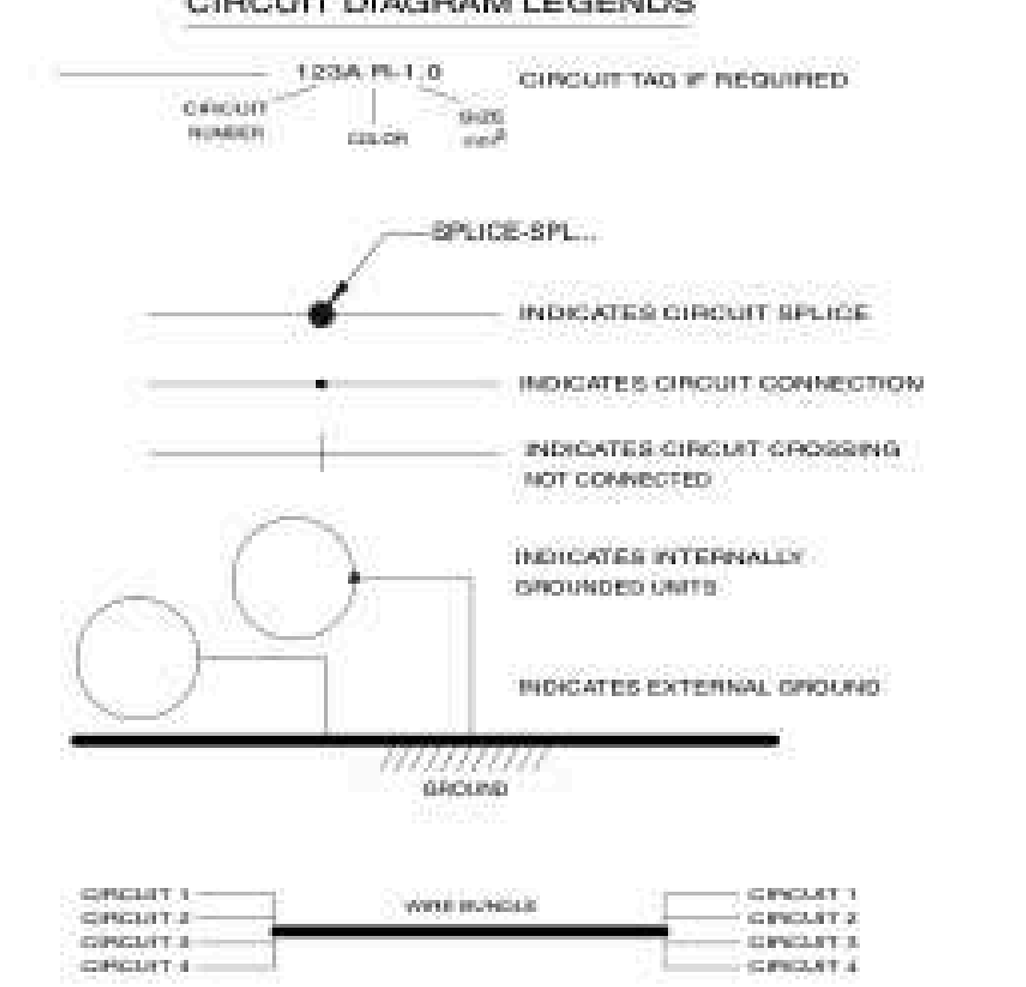


FRAME 2

COLOR ABBREVIATIONS

ABBREVIATION---COLOR	ABBREVIATION---COLOR
R---RED	OR---ORANGE
T---TAN	K---PINK
W---WHITE	V---VIOLET (PURPLE)
Y---YELLOW	DU---DARK BLUE
BK---BLACK	LU---LIGHT BLUE
N---BROWN	DG---DARK GREEN
S---GREY	LG---LIGHT GREEN

CIRCUIT DIAGRAM LEGENDS



FRAME 3

TABLE OF FUSES

1	FRAME 21	IGNITION SWITCH	29	FRAME 65	FRONT WIPER / WASH
2	FRAME 68	RADIO / DOME / MAP	30	FRAME 66	REAR WIPER / WASH
3	FRAME 21	IMPL AUX POWER	31	FRAME 65	FRONT LOWER WIPER
4	FRAME 67	POWER PORTS UNSW	32	FRAME 61	CAB PRESS BLOWER
5	FRAME 36	HORN	33	FRAME 67	POWER PORTS ACCY
6	FRAME 32	FLASHER	34	FRAME 63	MIRRORS / RADIO
7	FRAME 34	FNRP SWITCH	35	FRAME 66	SEAT HEATER
8	FRAME 13	SERVICE TOOL	36	FRAME 13	CASE DATA BUS
9	FRAME 24	ICU / PMU DISPLAY	37	FRAME 25	ICU / PMU DISPLAY
10	FRAME 71	GPS CCU	38	FRAME 47	ARMREST (ARU)
11	FRAME 57	ENGINE GOV UNSW	39	FRAME 37	TRANSMISSION (TRCU)
12	FRAME 67	CIGAR LIGHTER 1	40	FRAME 52	ELEC HYDRAULICS (AUX)
13	FRAME 67	CIGAR LIGHTER 2	41	FRAME 50	TPH (EDC)
14	FRAME 67	CIGAR LIGHTER 3	42	FRAME 35	GPS / RADAR
15	FRAME 28	REAR ROOF LAMPS	43	FRAME 42	STEERING (STCU)
16	FRAME 28	FRONT ROOF LAMPS	44	FRAME 30	SIDE HIGH BEAM
17	FRAME 28	WORKLIGHT INTERLOCK	45	FRAME 30	CENTER HIGH BEAM
18	FRAME 72	STROBE LAMP	46	FRAME 30	LEFT HIGH BEAM
19	FRAME 66	SEAT POWER	47	FRAME 30	RIGHT HIGH BEAM
20	FRAME 19	PTO / STARTER SOL	48	FRAME 30	LEFT LOW BEAM
21	FRAME 49	DIFF LOCK SOLENOIDS	49	FRAME 30	RIGHT LOW BEAM
22	FRAME 57	ENGINE GOV SW	50	FRAME 29	REAR FENDER LAMPS
23	FRAME 44	AXLE LUBE TEMP SW	51	FRAME 29	REAR FENDER LAMPS
24	FRAME 61	HVAC PUC - CONVERSION	52	FRAME 29	TAIL / POS / HAZ
25	FRAME 61	HVAC MICROPROCESSOR	53	FRAME 54	COM RADIO
26	FRAME 61	HVAC MODULE	54	FRAME 36	BACKUP ALARM
27	FRAME 36	ETHER	55	FRAME 33	BRAKE LIGHTS
28	FRAME 49	REAR DIFF LOCK LATCH	56	FRAME 49	FRONT DIFF LOCK LATCH

TABLE OF RELAYS

			FUNCTION				FUNCTION
R1	FRAME 30	183	FRONT HIGH BEAM	R16	FRAME 38	284	NEUTRAL LATCH
R2	FRAME 29	184	REAR FENDER LAMPS	R17	FRAME 38	284	NEUTRAL
R3	FRAME 22	183	IGNITION POWER	R18	FRAME 61	285	CAB PRESSURE BLOWER
R4	FRAME 20	284	CONTROLLER POWER	R19	FRAME 21	285	IMPL AUXILIARY POWER
R5	FRAME 20	222	ACCESSORY POWER	R20	FRAME 31	285	FRONT LOW BEAM
R6	FRAME 49	283	REAR DIFF LOCK	R21	FRAME 19	285	PTO
R7	FRAME 49	283	FRONT DIFF LOCK	R22	FRAME 19	285	FNRP START
R8	FRAME 36	283	COLD START ETHER	R23	FRAME 38	285	TRANSMISSION POWER
R9	FRAME 28	283	REAR ROOF	R24	FRAME 72	282	GPS IMPLEMENT PWR
R10	FRAME 28	283	FRONT ROOF				
R11	FRAME 28	283	WORK INTERLOCK				
R12	FRAME 38	284	PARK BRAKE				
R13	FRAME 42	284	STEERING CONTROL				
R14	FRAME 36	284	BACKUP ALARM				
R15	FRAME 37	284	BOTTOM OF CLUTCH				

FRAME 4

TABLE OF CONNECTOR LOCATIONS

		HARNESS			HARNESS
1	21	FRONT FRAME	31M & 31F	32	DASH / FNRP
2	21	FRONT FRAME	32	38	DASH
3	30	FRONT FRAME	33	62	CAB
4	30	FRONT FRAME	34	52	CAB
5	30	FRONT FRAME	35	14 50	CAB
6	30	FRONT FRAME	36	41	CAB
7M & 7F	21 34 36 37 49 57 61	CAB / DASH	37	15 41	CAB
8M & 8F	25 29 32 35 48 51 53	CAB / REAR FRAME	38	50	CAB
9M & 9F	24	DASH / FNRP	39	14 50	CAB
10M & 10F	28 32 64 65 70	CAB / ROOF	60M & 60F	10 35 36 55 56 57 62	FRONT FRAME/ENGINE
11	29	CAB	61	12 24	CAB
12	29	CAB	62	10 27	CAB
13	17 56	ENGINE			
14M & 14F	34	DASH / FNRP	64M & 64F	42	FRONT FRAME
15	31	DASH	65M & 65F	40	FRONT FRAME
16M & 16F	28	ROOF	66M & 66F	26	REAR FRAME
17M & 17F	28	ROOF	67A & 67B	26	FRONT FRAME/ENGINE
18M & 18F	28	ROOF	68M & 68F	26	FRONT FRAME
19M & 19F	28	ROOF	69M & 69F	26	TRANSMISSION
20			70	62	DASH
21			71A & 71B	62	FRONT FRAME/ENGINE
22	28	FRONT FRAME	72M & 72F	62	ENGINE
23	28	FRONT FRAME	73	36	ETHER
24	28	FRONT FRAME	74A & 74B	36	FRONT FRAME
25M & 25F	28	FRONT FRAME/ETHER	75		
26	27	CAB	76		
27	27	CAB	77M & 77F	20	FRONT FRAME/ENGINE
28	13 27	CAB	78	10	FRONT FRAME
29M & 29F	40	TRANSMISSION	79	10	FRONT FRAME
30M & 30F	40	TRANSMISSION	80M & 80F	19 30	FRONT FRAME
31M & 31F	40	TRANSMISSION	81	19	FRONT FRAME/ENGINE
32M & 32F	40	TRANSMISSION	82	19	FRONT FRAME
33M & 33F	40	TRANSMISSION	83		
34M & 34F	40	TRANSMISSION	84	19	FRONT FRAME
35M & 35F	40	TRANSMISSION	85M & 85F	44	FRONT FRAME
36M & 36F	40	TRANSMISSION	86		
37M & 37F	40	TRANSMISSION	87M & 87F	20	FRONT FRAME/ENGINE
38M & 38F	40	TRANSMISSION	88	19	FRONT FRAME
39	40	TRANSMISSION	89	26	FRONT FRAME
40M & 40F	40	FRONT FRAME/RCS	90	61	CAB
41M & 41F	40	FRONT FRAME	91	67	CAB
42M & 42F	40	FRONT FRAME			
44	40	TRANSMISSION	94M & 94F	66	CAB
45	65	WIPER	95A-D	63	CAB
46	65	WIPER	96M & 96F	63	CAB
47M & 47F	28	ROOF	97M & 97F	63	CAB
48M & 48F	28	ROOF	98	66	ROOF
49	39	FRONT FRAME	99	65	ROOF
50	38	DASH	100		

FRAME 5

TABLE OF CONNECTOR LOCATIONS (CONTINUED)

		HARNESS			HARNESS
101	21	DASH	151M & 151F	31	REAR FRAME
102A-C	68	CAB	152M & 152F	31	REAR FRAME
103A-C	68	CAB	153	33	CAB
104	32	ROOF	154	33	CAB
105	32	ROOF	155	31	REAR FRAME
106	32	ROOF			
107	32	ROOF	157	67	CAB
108M & 108F	68	AM/FM/WB ANTENNA	158	49	AXLE
109	63		159	20	REAR FRAME
110	36	DASH	160	49	FRONT FRAME
			161	21	DASH
112M & 112F	64	ROOF	162	63	DASH
113M & 113F	64	ROOF	163	30	CAB
114M & 114F	70	ROOF	164	68	DASH
115	65	ROOF	165	67	CAB
116	65	ROOF	166		
117M & 117F	43	FRONT FRAME	167M & 167F	67	CAB
118	33	ROOF	168M & 168F	67	CAB
119	43	FRONT FRAME	169M & 169F	67	CAB
120	32	ROOF	170	65	CAB
121	63	AM/FM/WB ANTENNA	171	25	CAB
122	65	CAB	172A & 172D	60	CAB
123	62	CAB	173A-E	21 22	CAB
124M & 124F	62	CAB	174	13	CAB
125M & 125F	61	CAB	175	12	CAB
126	63	CAB	176		
127	65	CAB	177		
128	32	CAB	178		
129	70	CAB	179		
130	64	CAB	180		
			181		
132M & 132F	32	CAB	182		
133M & 133F	66	CAB	183		
134A-C	22	CAB	184	30	NH LIGHT BAR
135	30	CAB	185	30	NH LIGHT BAR
136	30	CAB	186	31	NH LIGHT BAR
137	15 47	CAB	187	31	NH LIGHT BAR
138A-C	23	CAB	188		
139	58 65 61	CAB	189		
140	53	REAR FRAME	190		
141	53	REAR FRAME	191		
142	53	REAR FRAME	192		
143	53	REAR FRAME	193		
144	53	REAR FRAME	194	13	CAB
145	41	RCS CAB			
146	41	RCS CAB			
147	33	REAR FRAME	197	13	CAB
148	27	FRONT FRAME	198	13	CAB
149	37	REAR FRAME	199		
150M & 150F	53	REAR FRAME	200A & 200D	24	CAB

FRAME 6

TABLE OF CONNECTOR LOCATIONS (CONTINUED)

		HARNESS			HARNESS
201	44	FRONT FRAME	251	58	NON ARU
			252M & 252F	25	FRONT FRAME
			253	58	NON ARU
			254M & 254F	71	GPS CAB/GPS ARU
205	17 18	ENGINE	255A-D	58	CAB
206	16	ENGINE	256		
207F	55	ENGINE	257		
208M	55	ENGINE	258A-G	58	CAB
209M	55	ENGINE	259M & 259F	63	CAB
210	61	ENGINE	260		
211M & 211F	27	CAB	261	FUSE BLOCK	CAB
212	65	FRONT FRAME	262	FUSE BLOCK	CAB
213	65	FRONT FRAME	263	RELAY BLOCK	CAB
214M & 214F			264	RELAY BLOCK	CAB
215	65	WIPER	265	RELAY BLOCK	CAB
216	65	FRONT FRAME	266A & 266B	29	CAB
217	65	WIPER	267A & 267B	25	CAB
218	33	REAR FRAME	268A & 268B	25	CAB
219	35	FNRP	269	67	CAB
220A-J	35	FNRP	270	67	AUX POWER PORT
221	35	FNRP	271	67	AUX POWER PORT
222	20	CAB	272M	19	CAB & GPS CAB
223M & 223F			273M & 273F	71	CAB & GPS CAB
224	32	ROOF	274M & 274F	42	CAB & RCS
225	32	ROOF	275		
226	36	CAB	276		
227M & 227F	20	REAR FRAME	277M & 277F	15	CAB & RCS
228M & 228F			278M & 278F	72	GPS CAB/GPS CHAS
229M & 229F	33	REAR FRAME	279M & 279F	61	CAB
230M & 230F	20	REAR FRAME	280	55	ENGINE
231	36	CAB	281		
232M & 232F	20	REAR FRAME	282	72	GPS CHASSIS
233	33	REAR FRAME	283	72	GPS CHASSIS
234	32	REAR FRAME	284	20	CAB
235M & 235F	20	REAR FRAME	285	71	GPS ARU
236M & 236F	33	MARKER LIGHT	286	71	GPS ARU
237M & 237F	33	MARKER LIGHT	287		
238	58	CAB	288		
239	58	CAB	289	71	GPS CAB
240M & 240F	19	CAB	290	71	GPS CAB
241	65	CAB	291	71	GPS CAB
242	31	CAB	292	71	GPS CAB
243M & 243F	61	CAB	293	71	GPS CAB
244	56	ENGINE	294	71	GPS ARU
245			295		
246	58	NON ARU	296	72	GPS CAB
247	58	NON ARU	297	72	GPS CHASSIS
248	58	NON ARU	298	72	GPS CAB
249	58	NON ARU	299	71	GPS CAB
250M & 250F	57	CAB / NON ARU	300	71	GPS CAB

FRAME 7

TABLE OF CONNECTOR LOCATIONS (CONTINUED)

REF. DES.	FRAME LOCATION	HARNESS	REF. DES.	FRAME LOCATION	HARNESS
301	20	BATTERY			
302	19	BATTERY			
303G & 303L	19	BATTERY			
304B & 304L	19	BATTERY			
305S & 305L	19	BATTERY			
306G & 306L	20	BATTERY			
307S & 307L	20	BATTERY			
308	19	BATTERY			
309					
310					
311	19	BATTERY			
312M & 312F	31	REAR FRAME			
313					
314B & 314L	19	BATTERY			
315B & 315L	19	BATTERY			
316	19	BATTERY			
317	19	BATTERY			
318	19	BATTERY			
319	19	BATTERY			
320	21	BATTERY			
321	19	BATTERY			
322	55	ENGINE			
323	67	AUX POWER PORT			
324M & 324F	49	REAR FRAME/AXLE			
325M & 325F	36	REAR FRAME/BACKUP			
326	72	GPS CHASSIS			
327(FL/SE)	72	GPS CHASSIS			
328					
329	31	RCS CAB			
330	63	AM/FM/WB ANTENNA			
331	39	FRONT FRAME			
332M & 332F	65	FRONT FRAME/WIPER			
333M & 333F	16 10 33 30 36 38 57 61 65	CAB & FRONT FRAME			
334M & 334F	10 33 30 36 38 44 49 63	CAB & FRONT FRAME			
335M & 335F	38 40	FRONT FRAME/TRANS			
336					
337A & 337B	36	BACKUP ALARM			
338					
339	20	BATTERY			
340	53	REAR FRAME			
341	53	REAR FRAME			
342M & 342F	49 53	REAR FRAME			
343	53	REAR FRAME			
344	53	REAR FRAME			
345	19	BATTERY			
346	19	BATTERY			
347	54	CAB			
348	54	CAB			
349	54	CAB			
350	31	RCS CAB			

FRAME 8

TABLE OF SPLICES

SPLICE NAME	DIAGRAM LOCATION	HARNESS USED ON	CIRCUIT
SPL-A1	56	ARMREST HARNESS NON ARU	SWITCHED B+
SPL-AFS1	FRAME 72	GPS CHASSIS HARNESS	SWITCHED B+
SPL-AFS2	FRAME 71	GPS CHASSIS HARNESS	IMPL SWITCHED B+
SPL-AFS3	FRAME 71	GPS CHASSIS HARNESS	GPS CLEAN GROUND
SPL-C1	FRAME 25	CAB HARNESS	OVERHEAD BACKLIGHTING
SPL-C2	FRAME 24	CAB HARNESS	ICU/PMU CLEAN GROUND
SPL-C3	FRAME 24	CAB HARNESS	LUBE FILTER SWITCH
SPL-C4	FRAME 24	CAB HARNESS	LUBE FLTR +5V PULLUP
SPL-C5	FRAME 68	CAB HARNESS	OVERHEAD BACKLITES B+
SPL-C6	FRAME 68	CAB HARNESS	RADIO/DOME B+ UNSW
SPL-C7	FRAME 68	CAB HARNESS	OVERHEAD BACKLITES GND
SPL-C8	FRAME 68	CAB HARNESS	OVERHEAD BACKLITES GND
SPL-C9	FRAME 61	CAB HARNESS	TEMP/VAC/BLWR POT GND
SPL-C10	FRAME 66	CAB HARNESS	SEAT POWER
SPL-C11	FRAME 22	CAB HARNESS	TPH/AUX/RCS CLN GND
SPL-C12	FRAME 38	CAB HARNESS	FNRD LMP FNRP
SPL-C13	FRAME 38	CAB HARNESS	RVRS LMP FNRP
SPL-C14	FRAME 38	CAB HARNESS	TRANSMISSION B+
SPL-C15	FRAME 38	CAB HARNESS	NEUTRAL RELAY COMMON
SPL-C16	FRAME 67	CAB HARNESS	POWER PORTS ACCY PWR
SPL-C17	FRAME 67	CAB HARNESS	POWER PORTS UNSW B+
SPL-C18	FRAME 13	CAB HARNESS	CDB B+
SPL-C19	FRAME 13	CAB HARNESS	CDB CLEAN GROUND
SPL-C20	FRAME 25	CAB HARNESS	TGS RADAR/AFS ACCY PWR
SPL-C21	FRAME 25	CAB HARNESS	ICU/AUX/AFS RADAR SIG
SPL-C22	FRAME 32	CAB HARNESS	LEFT TURN
SPL-C23	FRAME 32	CAB HARNESS	RIGHT TURN
SPL-C24	FRAME 34	CAB HARNESS	DASH/ACCY CHASSIS GND
SPL-C25	FRAME 49	CAB HARNESS	FRONT DIFF LOCK
SPL-C26	FRAME 49	CAB HARNESS	REAR DIFF LOCK
SPL-C27	FRAME 34	CAB HARNESS	HI BEAM/HAZ UNSW B+
SPL-C28	FRAME 58	CAB HARNESS	CRUISE DRIVE

FRAME 9

TABLE OF SPLICES (CONTINUED)

SPLICE NAME	DIAGRAM LOCATION	HARNESS USED ON	CIRCUIT
SPL-CD1	FRAME 21	CAB DASH HARNESS	IGN SW CHASSIS GROUND
SPL-CD2	FRAME 34	CAB DASH HARNESS	HI BEAM & SELF CANCL B+
SPL-CD3	FRAME 34	CAB DASH HARNESS	DASH CHASSIS GROUND
SPL-CD4	FRAME 62	CAB DASH HARNESS	VENT SIG (STD ONLY)
SPL-CD5	FRAME 62	CAB DASH HARNESS	VENT SIG (STD ONLY)
SPL-CR1	FRAME 32	CAB ROOF HARNESS	CAB RIGHT TURN SIGNAL
SPL-CR2	FRAME 32	CAB ROOF HARNESS	CAB LEFT TURN SIGNAL
SPL-CR3	FRAME 28	CAB ROOF HARNESS	REAR CAB WORKLITES B+
SPL-CR4	FRAME 28	CAB ROOF HARNESS	REAR CAB WORKLITES GND
SPL-CR5	FRAME 32	CAB ROOF HARNESS	REAR HAZARD LITES GND
SPL-CR6	FRAME 32	CAB ROOF HARNESS	FRONT HAZARD LITES GND
SPL-CR7	FRAME 29	CAB ROOF HARNESS	FRONT CAB WRKLITE GND
SPL-CR8	FRAME 29	CAB ROOF HARNESS	FRONT CAB WORKLITES B+
SPL-CR9	FRAME 64	CAB ROOF HARNESS	ELEC MIRROR COMMON
SPL-E1	FRAME 56	ENGINE HARNESS - 15.0L	HAND THROTTLE GROUND
SPL-E2	FRAME 56	ENGINE HARNESS - 15.0L	HAND THROTTLE B+
SPL-E3	FRAME 56	ENGINE HARNESS - 15.0L	ENG GOVERNOR UNSW B+
SPL-E4	FRAME 56	ENGINE HARNESS - 15.0L	ENG GOVERNOR UNSW B+
SPL-E5	FRAME 56	ENGINE HARNESS - 15.0L	CLEAN GROUND
SPL-E6	FRAME 55	ENGINE HARNESS - 8.0L & 9.0L	ENG GOVERNOR UNSW B+
SPL-E7	FRAME 55	ENGINE HARNESS - 8.0L & 9.0L	ENG GOVERNOR UNSW B+
SPL-E8	FRAME 55	ENGINE HARNESS - 8.0L & 9.0L	CLEAN GROUND
SPL-E9	FRAME 55	ENGINE HARNESS - 8.0L & 9.0L	DECELERATOR / WIF END
SPL-E10/E11	FRAME 62	ENGINE HARNESS 8.0L/15.0L	ETHER/COMP GROUND
SPL-E12	FRAME 56	ENGINE HARNESS - 15.0L	CRUISE GROUND
SPL-F1	FRAME 57	FRONT FRAME HARNESS	ENGINE GOV CLN GND
SPL-F2	FRAME 44	FRONT FRAME HARNESS	CHASSIS GROUND
SPL-F3	FRAME 44	FRONT FRAME HARNESS	CHASSIS GROUND
SPL-F4	FRAME 40	FRONT FRAME HARNESS	RCE SOLENOID B+
SPL-F5	FRAME 31	FRONT FRAME HARNESS	CHASSIS GROUND
SPL-F6	FRAME 30	FRONT FRAME HARNESS	FRONT SIDE WRKLITES
SPL-F7	FRAME 30	FRONT FRAME HARNESS	CENTER HIGH BEAM
SPL-M1	FRAME 33	MARKER LIGHT HARNESS	CHASSIS GROUND
SPL-M2	FRAME 33	MARKER LIGHT HARNESS	CHASSIS GROUND RIGHT
SPL-M3	FRAME 33	MARKER LIGHT HARNESS	MARKER LIGHT B+ RIGHT
SPL-M4	FRAME 33	MARKER LIGHT HARNESS	MARKER LIGHT B+ LEFT
SPL-M5	FRAME 33	MARKER LIGHT HARNESS	CHASSIS GROUND LEFT

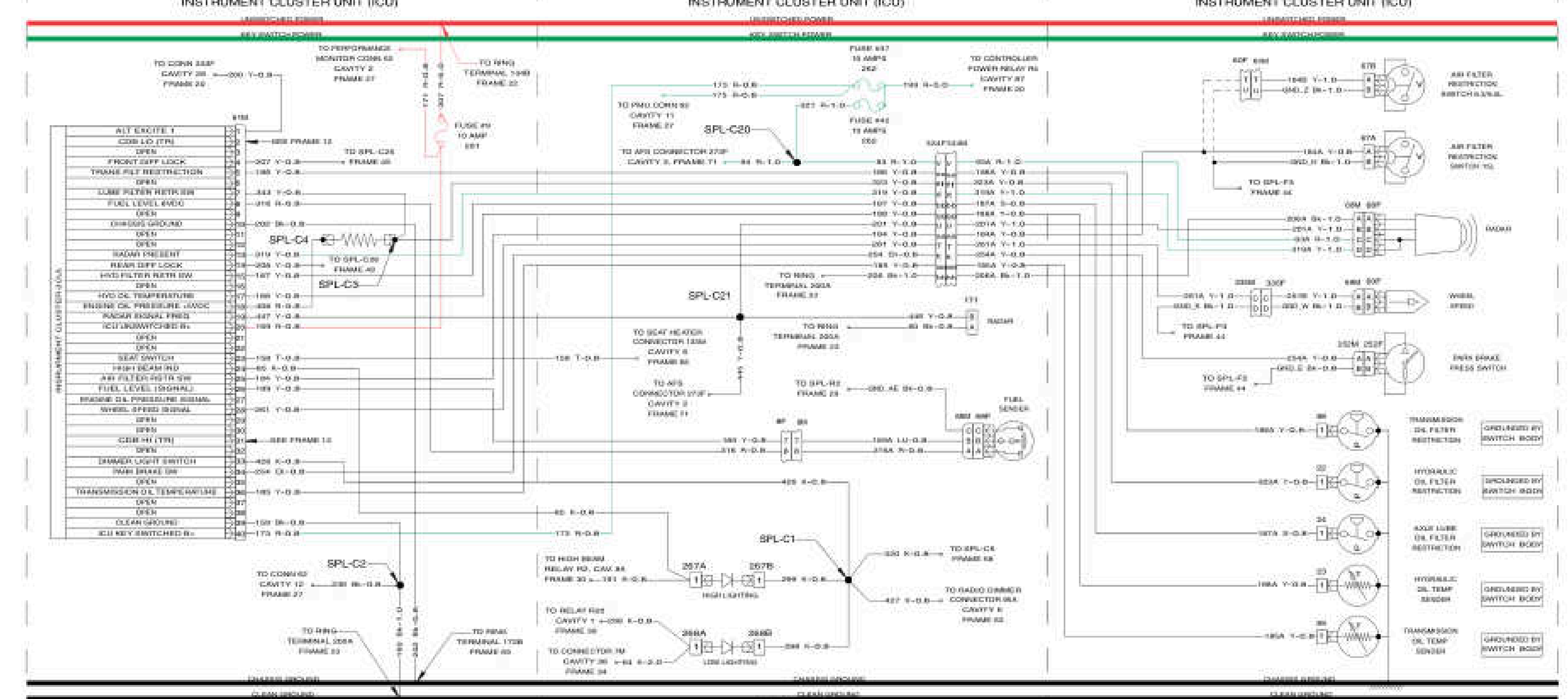
FRAME 10

TABLE OF SPLICES (CONTINUED)

SPLICE NAME	DIAGRAM LOCATION	HARNESS USED ON	CIRCUIT
SPL-R1	FRAME 51	REAR FRAME HARNESS	TPH SOLENOIDS B+
SPL-R2	FRAME 29	REAR FRAME HARNESS	CHASSIS GROUND
SPL-R3	FRAME 33	REAR FRAME HARNESS	RIGHT TURN
SPL-R4	FRAME 33	REAR FRAME HARNESS	LEFT TURN
SPL-R5	FRAME 33	REAR FRAME HARNESS	TAIL LAMPS
SPL-R6	FRAME 29	REAR FRAME HARNESS	REAR RT FENDER WRKLTS
SPL-R7	FRAME 29	REAR FRAME HARNESS	REAR RT FENDER GROUND
SPL-R8	FRAME 29	REAR FRAME HARNESS	REAR LT FENDER WRKLTS
SPL-R9	FRAME 29	REAR FRAME HARNESS	REAR LT FENDER GROUND
SPL-R10	FRAME 33	REAR FRAME HARNESS	BRAKE LIGHTS GROUND
SPL-S1	FRAME 41	RCS CAB HARNESS	+5V SUPPLY
SPL-S2	FRAME 41	RCS CAB HARNESS	SOLENOID CLAMP 1
SPL-T1	FRAME 40	TRANSMISSION CHASSIS HARNESS	8FSR PWM SOLENOIDS
SPL-T2	FRAME 40	TRANSMISSION CHASSIS HARNESS	SOLENOIDS B+ FEED
SPL-W1	FRAME 65	WIPER HARNESS	RT WIPER LO (ANODE)
SPL-W2	FRAME 65	WIPER HARNESS	RT WIPER LO (CATHODE)
SPL-W3			LT WIPER LO (ANODE)
SPL-W4			LT WIPER LO (CATHODE)
SPL-W5			WIPER PARK
SPL-W6			WIPER CHASSIS GROUND
CDB-SPL-AFS1	FRAME 71	GPS CAB HARNESS	GPS CONNECTOR (IMPL)
CDB-SPL-AFS2	FRAME 71	GPS CAB HARNESS	GPS CONNECTOR (IMPL)
CDB-SPL-AFS3	FRAME 72	GPS CAB HARNESS	GPS CONNECTOR (IMPL)
CDB-SPL-C1	FRAME 12	CAB HARNESS	CASE DATA BUS (TR)
CDB-SPL-C2	FRAME 12	CAB HARNESS	CASE DATA BUS (TR)
CDB-SPL-C3	FRAME 13	CAB HARNESS	CASE DATA BUS (TR)
CDB-SPL-C4	FRAME 13	CAB HARNESS	CASE DATA BUS (TR)
CDB-SPL-C5	FRAME 14	CAB HARNESS	CASE DATA BUS (TR)
CDB-SPL-C6	FRAME 14	CAB HARNESS	CASE DATA BUS (TR)
CDB-SPL-C7	FRAME 15	CAB HARNESS	CASE DATA BUS (TR)
CDB-SPL-C8	FRAME 15	CAB HARNESS	CASE DATA BUS (TR)
CDB-SPL-E1	FRAME 17	ENGINE HARNESS	CASE DATA BUS (TR)
CDB-SPL-E2	FRAME 18	ENGINE HARNESS	CASE DATA BUS (TR)

FRAME 11

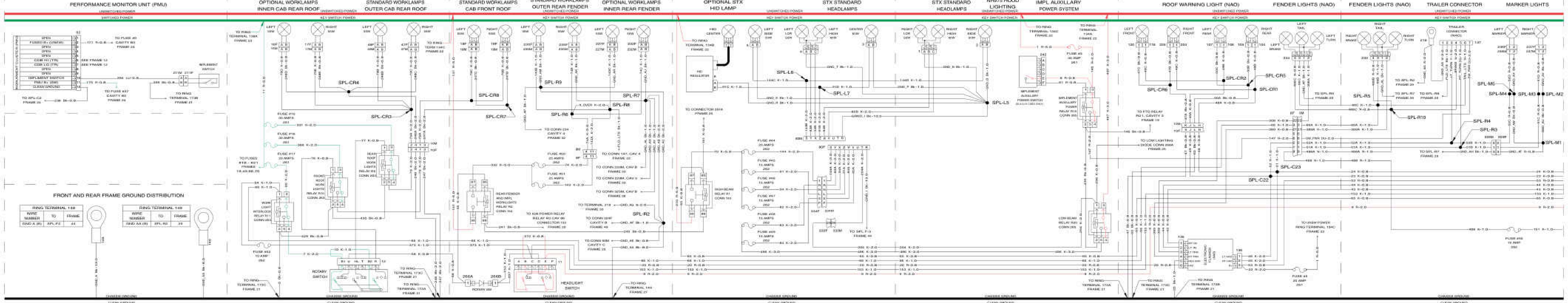
INSTRUMENT CLUSTER UNIT (ICU)



FRAME 24 FRAME 25 FRAME 26

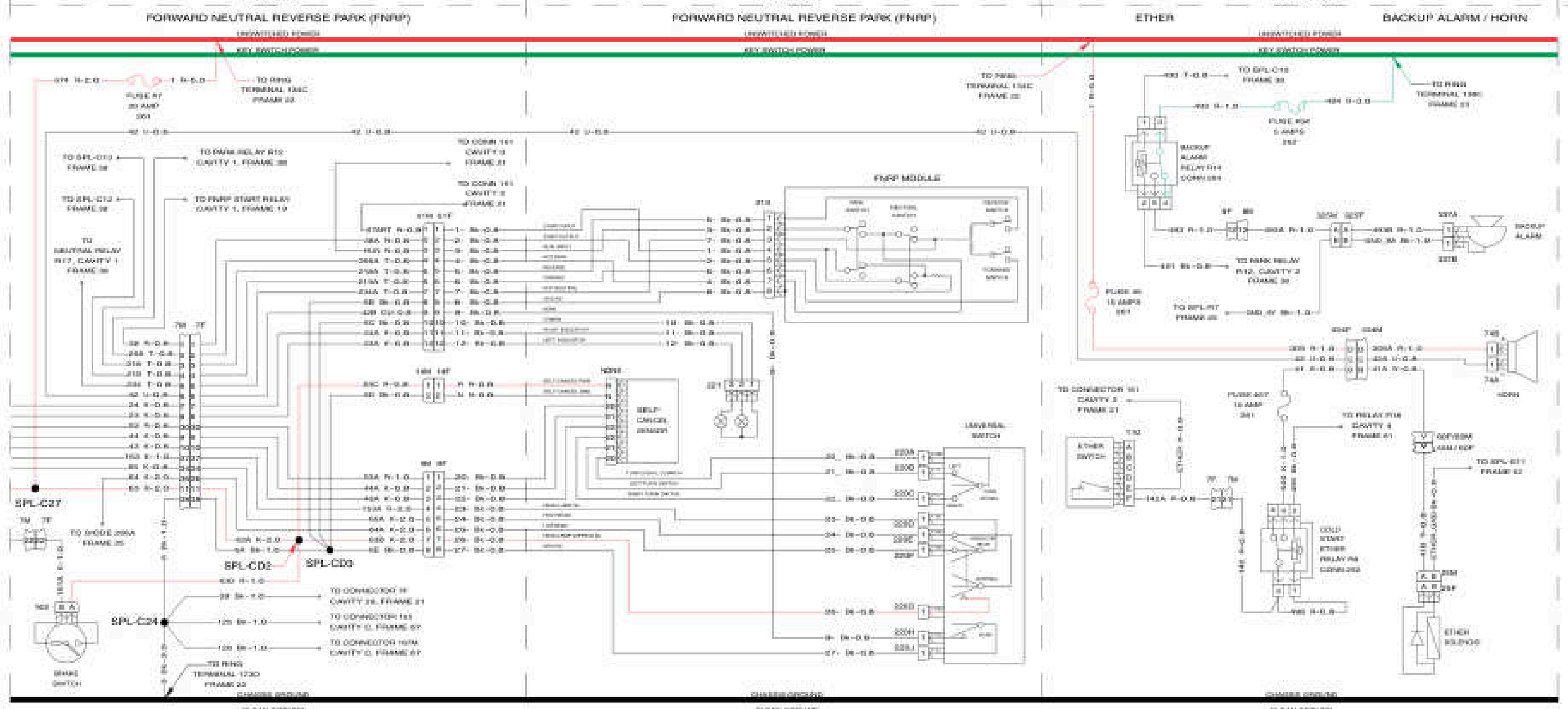
PERFORMANCE MONITOR UNIT (PMU) | OPTIONAL WORKLAMPS INNER CAB REAR ROOF | STANDARD WORKLAMPS OUTER CAB REAR ROOF | STANDARD WORKLAMPS CAB FRONT ROOF | STANDARD WORKLAMPS OUTER REAR FENDER | OPTIONAL WORKLAMPS INNER REAR FENDER | OPTIONAL STX HID LAMP | STX STANDARD HEADLAMPS | STX STANDARD HEADLAMPS | NH975 HOOD LIGHTING | IMPL AUXILLARY POWER SYSTEM | ROOF WARNING LIGHT (NAO) | FENDER LIGHTS (NAO) | FENDER LIGHTS (NAO) | TRAILER CONNECTOR | MARKER LIGHTS

FRONT AND REAR FRAME GROUND DISTRIBUTION



FRAME 27 FRAME 28 FRAME 29 FRAME 30 FRAME 31 FRAME 32 FRAME 33

FORWARD NEUTRAL REVERSE PARK (FNRP) | FORWARD NEUTRAL REVERSE PARK (FNRP) | ETHER | BACKUP ALARM / HORN



FRAME 34 FRAME 35 FRAME 36

STX SERIES TRACTORS
STX-275/325, STX-375/425/450
P.I.N. JEE 0099501 AND AFTER
POWERSHIFT TRANSMISSION
ELECTRICAL SCHEMATIC
RAC. 6-12250

LEGEND

INDICATES CONSTANT POWER (red)

INDICATES POWER WHEN KEY SWITCH IS ON (green)

NOTE: TRANSMISSION CONTROL LEVER IN PARK

Order the manual at mid-west-tech.com >