

NEW HOLLAND

REPAIR MANUAL

TJ Series

Complete Contents

NEW HOLLAND

SERVICE

87341388 9/05

MidWestTech | New Holland TJ425, TJ450, TJ500 Tractor Service Manual | Publication 87542227

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TJ SERIES REPAIR MANUAL
COMPLETE CONTENTS

SECTION 00 - GENERAL INFORMATION 2

SECTION 10 - ENGINES 5

SECTION 21 - TRANSMISSIONS 93

SECTION 31 - POWER TAKE-OFF 101

SECTION 33 - BRAKES AND CONTROLS 105

SECTION 35 - HYDRAULIC SYSTEMS 107

SECTION 37 - TOWING HOOKS AND BALLASTING 122

SECTION 39 - FRAMES 123

SECTION 41 - STEERING 124

SECTION 44 - AXLES AND WHEELS 128

SECTION 50 - CAB CLIMATE CONTROL 136

SECTION 55 - ELECTRICAL SYSTEMS 146

SECTION 90 - PLATFORM AND CAB 178

The following pages are the collation of the contents pages from each section and chapter of the TJ Series Repair manual.

The sections used through out all New Holland product Repair manuals may not be used for each product. Each Repair manual will be made up of one or several books. Each book will be labeled as to which sections are in the overall Repair manual and which sections are in each book.

The sections listed above are the sections utilized for the TJ Series Tractors.

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SECTION 00 - GENERAL INFORMATION

BOOK 86642987

Chapter 1 - Standard Torque Specification

CONTENTS

Section	Description	Page
	Torque Specifications - Decimal Hardware	2
	Torque Specifications - Metric Hardware	3
	Torque Specifications - Steel Hydraulic Fittings	4

SECTION 00 - GENERAL INFORMATION

BOOK 86642987

Chapter 2 - Safety

CONTENTS

Section	Description	Page
	Safety	2
	Roll Over Protective Structure (ROPS)	3

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SECTION 00 - GENERAL INFORMATION

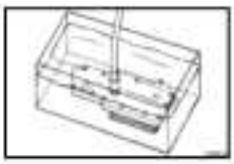
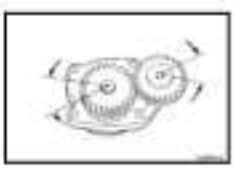
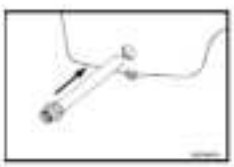
BOOK 86642987

Chapter 3 - General Information and Specifications (All TJ Series Tractors)

CONTENTS

Section	Description	Page
	General Specifications	3
	Tractor Weights	6
	Approximate Travel Speeds (MPH) (TJ275 - TJ325 Wheel Tractors)	7
	Approximate Travel Speeds (KPH) (TJ275 - TJ325 Wheel Tractors)	8
	Approximate Travel Speeds (MPH) (TJ375 - TJ375HD, TJ450 Wheel Tractors)	9
	Approximate Travel Speeds (KPH) (TJ375 - TJ375HD, TJ450 Wheel Tractors)	10
	Approximate Travel Speeds (MPH) (TJ275 - TJ325 Wheel Tractors)	11
	Approximate Travel Speeds (MPH) (TJ375HD Wheel Tractors)	12
	Approximate Overall Measurements	13
	Electrical Specifications	14
	Fuse/Relay Identification - For Deluxe Cab and Powershift Transmission	15
	Fuse/Relay Identification - For Deluxe Cab and 24 Speed Transmission	16
	Fuse/Relay Identification - For Standard Cab and 24 Speed Transmission	17
	Programming the Display Monitor	18
	Instrument Panel Backlight Intensity	19
	Changing the Remote Valve Extend/Retract Values	19
	Changing Tire Radius	20
	Radar Sensor Calibration	20
	Radar Calibration Procedure	20
	Tire Average Rolling Radius Chart	21
	Dynamic Rolling Radius	22
	Critical Warning Displays	23
	Non-Critical Warning Displays	23
	Diagnostic Warning Displays	25
	Information Warning Displays	26
	Performance Monitor Display	27
	Wheel Bolt Torques	38
	Wheel Offset Direction Change	38
	Wheel Tread Settings	40
	Triple Wheel Tread Setting	48

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Component or Assembly (Procedure) Ref. No./StepsMetric			U.S.	
Lubricating Oil System - Specifications				
Lubricating Oil Pump (007-031)				
Backlash Limits				
A	0.076 mm	MIN	0.003 in	
	0.330 mm	MAX	0.013 in	
B	0.076 mm	MIN	0.003 in	
	0.330 mm	MAX	0.013 in	
Lubricating Oil Cooler (007-003)				
Air Pressure Test	449 kPa	MIN	65 psi	
	518 kPa	MAX	75 psi	
Tip Clearance	0.025 mm	MIN	0.001 in	
	0.1778 mm	MAX	0.007 in	
Gerotor Clearance	0.025 mm	MIN	0.001 in	
	0.127 mm	MAX	0.005 in	
Limit	0.1778 mm	MIN	0.007 in	
	0.381 mm	MAX	0.015 in	
Limits (Used Pump)	0.076 mm	MIN	0.003 in	
	0.330 mm	MAX	0.013 in	
Lubricating Oil System - Torque Values				
Engine Oil Heater (007-001)	120 N·m		88 ft-lb	

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STEP 1C: Disconnect the remote throttle connector; check if fault code deactivates.

Condition:
- Disconnect the remote throttle connector.

Action	Specifications/Repair	Next Step
Check for fault code deactivates. • Check for inactive fault codes using an electronic service tool.	**OK** **Fault Code 133 active**	2A
	NOT OK **Go to Fault Code 131** Replace the remote throttle position sensor. Refer to the vehicle troubleshooting and repair manual.	4A

STEP 2: Check the remote throttle position sensor.

STEP 2A: Inspect the harness and the remote throttle position sensor connector pins.

Condition:
- Key switch in the OFF position.
- Disconnect the vehicle harness from the remote throttle position sensor.

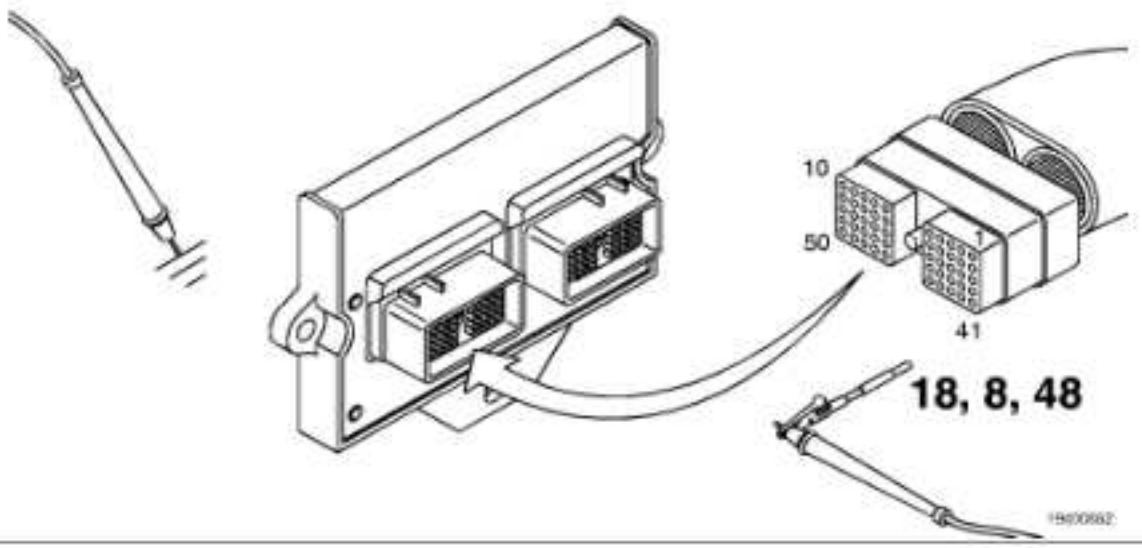
Action	Specifications/Repair	Next Step
Inspect the harness and the remote throttle position sensor connector pins for: • Bent or broken pins • Pushed back or expanded pins • Corroded pins • Moisture in or on the connector • Missing or damaged seals.	**OK** **No damaged pins**	2B
	NOT OK **Repair the damaged pins** Repair or replace the vehicle harness or ECM, whichever has damaged pins. • Repair the vehicle harness. • Replace the vehicle harness. Refer to Procedure 019-071. • Replace the remote throttle position sensor. Refer to the vehicle troubleshooting and repair manual.	4A

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STEP 5C: Check for a short circuit to ground.

Condition:
- Key switch in the OFF position.
- Disconnect the vehicle harness from the ECM.
- Disconnect the vehicle harness from the auxiliary speed or pressure sensor.

Action	Specifications/Repair	Next Step
Check for a short circuit to ground. • Measure the resistance from pin 18 of the vehicle harness to engine block ground. • Measure the resistance from pin 8 of the vehicle harness to engine block ground. • Measure the resistance from pin 48 of the vehicle harness to engine block ground.	**OK** **More than 100k ohms**	5D
	NOT OK **Replace the vehicle harness** Refer to the vehicle troubleshooting and repair manual.	6A



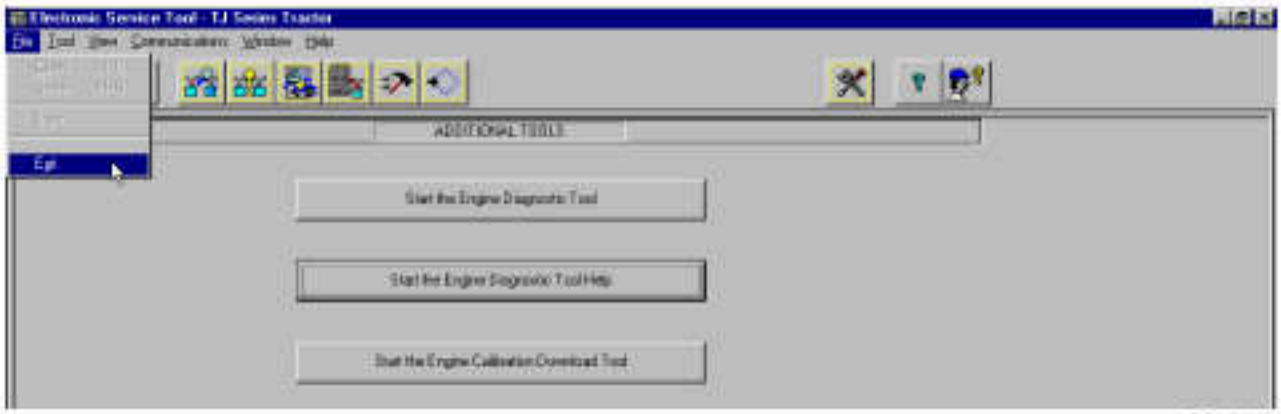
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Shutting Down the Electronic Service Tool

Section 1: Shutting Down the Electronic Service Tool

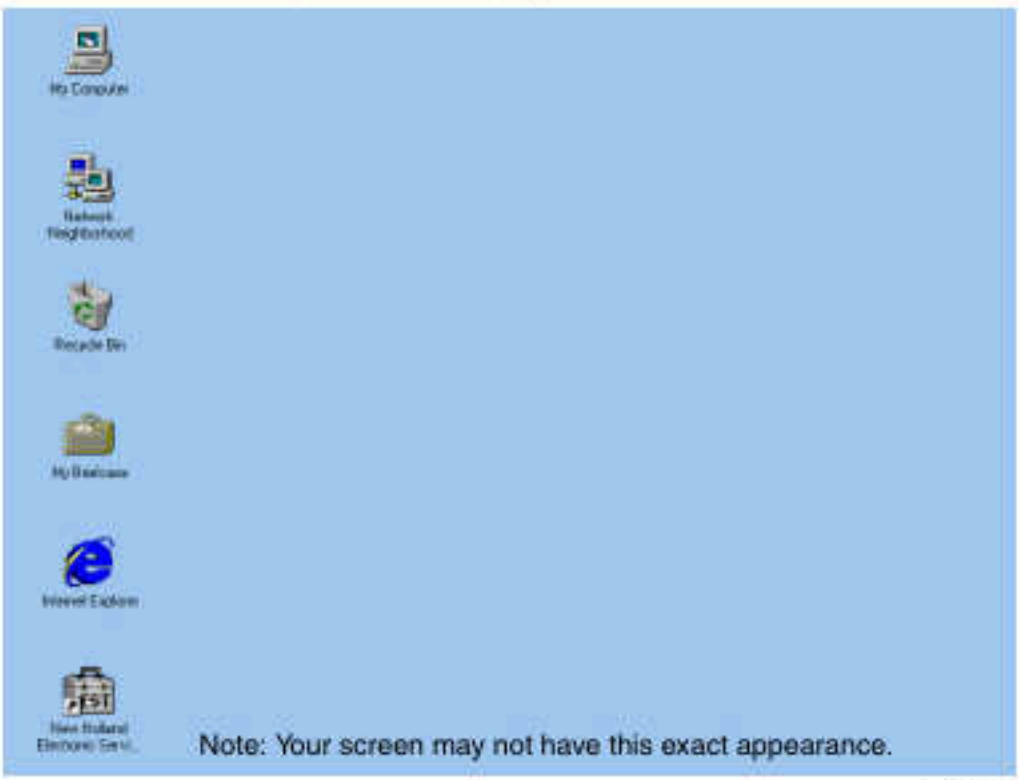
To exit the Electronic Service Tool program use the left button of the mouse to click on the File pull down menu, then the Exit selection.

Left Click Mouse On: File > Exit



RZ01H373

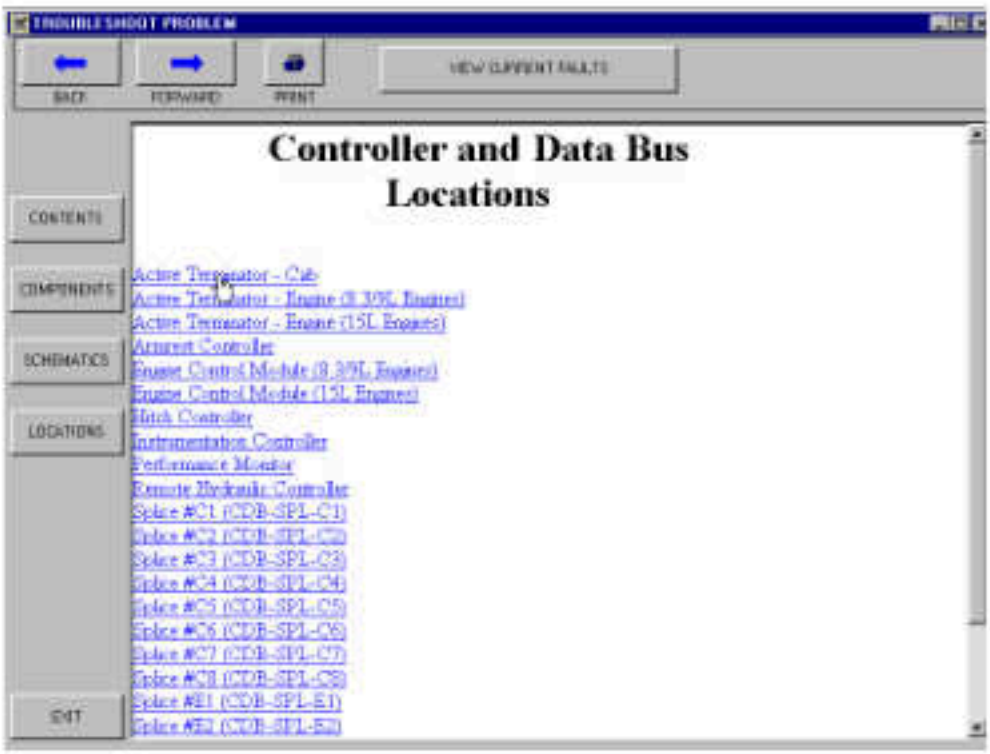
The Electronic Service Tool desktop screen will display.



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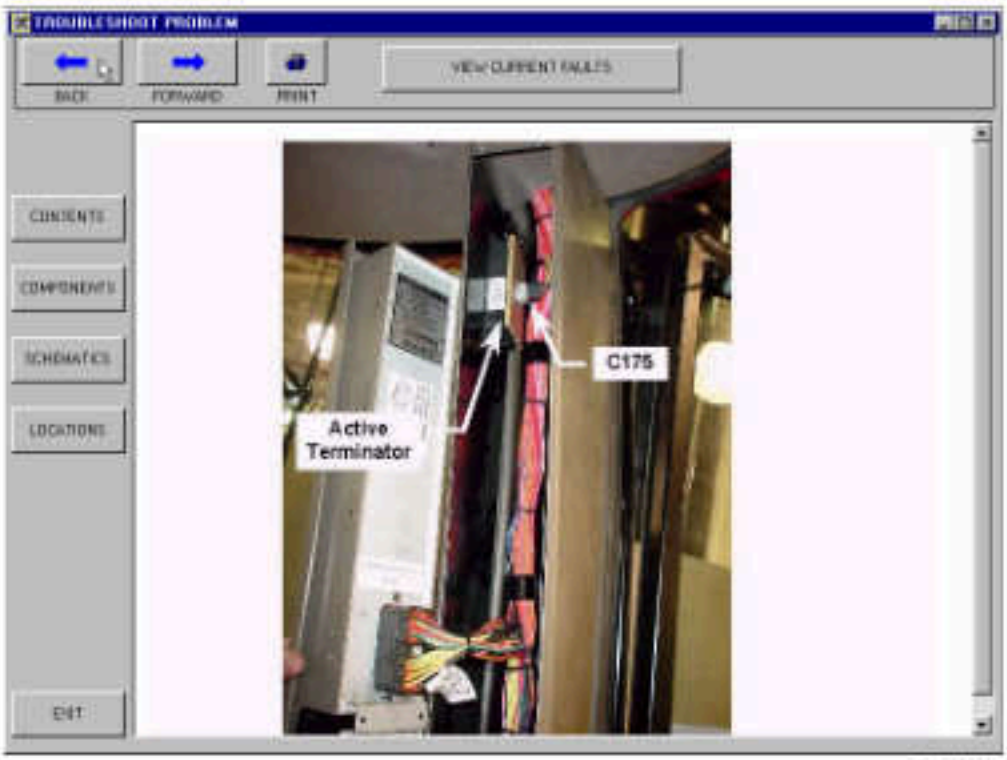
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Left Click Mouse On: Active Terminator - Cab



RZ00M231

Left Click Mouse On:BACK



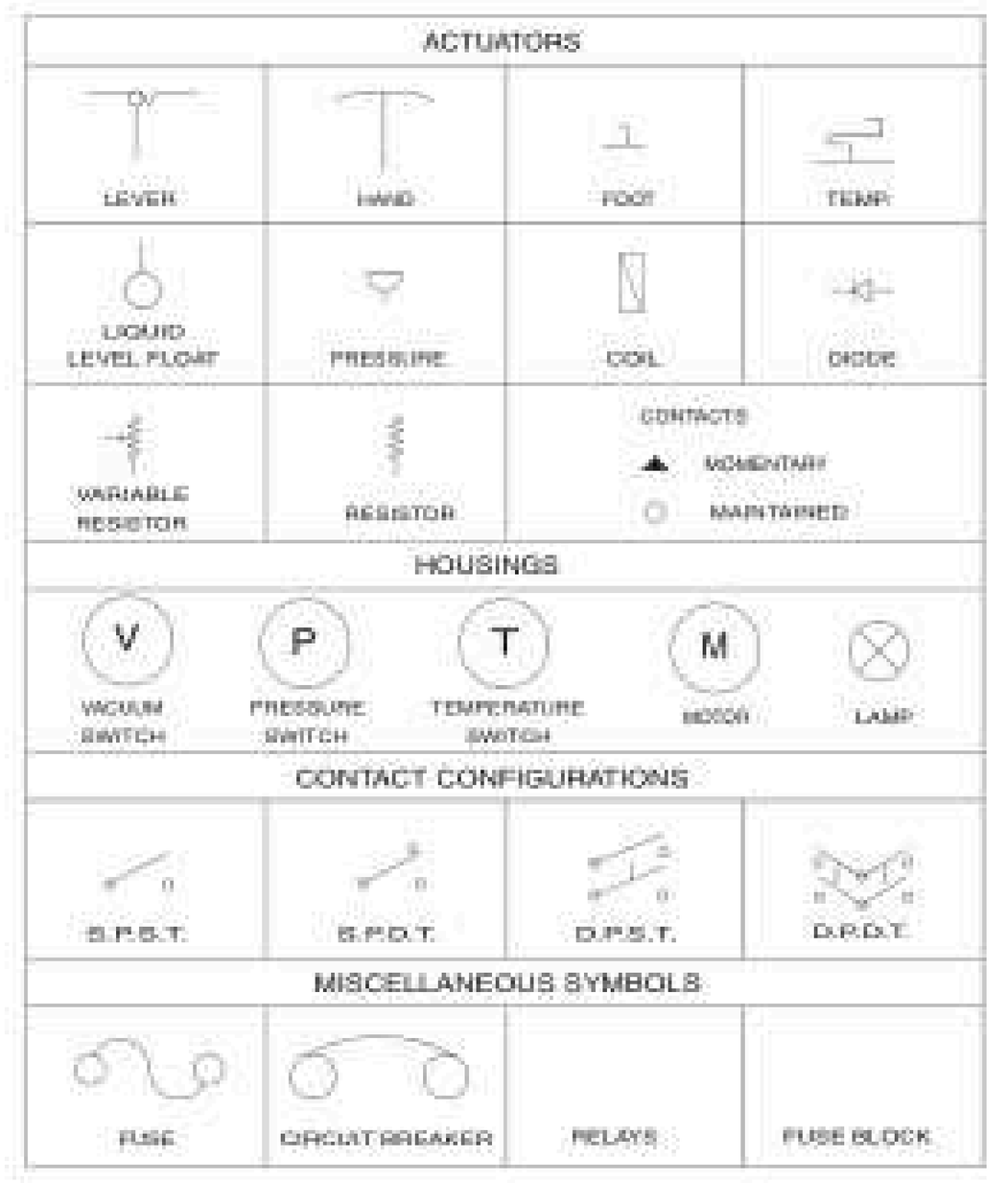
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CIRCUIT DESCRIPTION	FRAME	CIRCUIT DESCRIPTION	FRAME
AIR CONDITIONING	59-62		
ADVANCED FARMING SYSTEM	71-72	-STANDARD FRONT LAMPS	30-31
ARMREST CONTROLLER	45-48	-OPTIONAL HIGH INTENSITY LAMP	30
AUXILIARY CONTROL SYSTEM	52-53	-OPTIONAL CAB REAR ROOF	28
AUTOMATIC TEMPERATURE CONTROL UNIT	60	-OPTIONAL REAR FENDER WORK	29
AUXILIARY POWER CONN. (IMPLEMENT)	67	-OPTIONAL MARKER	33
AXLE LUBE SYSTEM	44	-ROOF HEAD LIGHTS	28
BLOWER MOTOR (ATCU OR CCU)	59 & 60	-OPTIONAL MAP	66
BLOWER MOTOR (CAB PRESSURE)	61	-STANDARD REAR FENDER	29
BACKUP ALARM	36	-STANDARD CAB FRONT ROOF	29
CHARGING SYSTEM	18	-FENDER TAIL	32-33
CAB/CONTROLLER POWER	20	-FENDER TURN SIGNAL	32-33
CASE DATA BUS	12-16	-ROOF WARNING NAO	32
CIGAR LIGHTER	67	PERFORMANCE MONITOR	27
CLIMATE CONTROL UNIT	59	POWER DISTRIBUTION SYSTEM	20-23
COMMUNICATIONS RADIO SYSTEM	64	POWER MIRRORS	64
DIFFERENTIAL LOCK	49	PTO SYSTEM	19-20
ELECTRONIC ENGINE CONTROLLER	55-58	RADIO ANTENNA (AM/FM/WB)	63
EMERGENCY BUSINESS BAND RADIO	64	RADIO SOUND SYSTEM	63
ETHER START	36	ROTARY LIGHT SWITCH	28
FOOT DECELERATOR	58	SCHEMATIC LEGEND	1-11
FORWARD/NEUTRAL/REVERSE SHUTTLE SYSTEM	34-36	-SYMBOL DEFINITIONS	2
HITCH CONTROL SYSTEM	50-51	SEAT	66
HEADLIGHT SWITCH	29	START / CRANK SYSTEM	19
HORN	36	STEERING CONTROLLER SYSTEM	41-42
IGNITION SWITCH	20	STROBE	70
INSTRUMENT CLUSTER	24-26	TRAILER CONNECTOR (7-POLE)	33
LIGHTS-STANDARD HEAD LIGHTS	30-31	TRANSMISSION CONTROL SYSTEM	37-40
-BEACON	70	WINDSHIELD WIPER/WASHER FRONT	65
-DOME/CONSOLE/MAP	66	WINDSHIELD WIPER/WASHER REAR	65

ELECTRICAL SCHEMATIC DIAGRAM
INF11540
NAO STX SERIES TRACTOR
POWERSHIFT VERSION

FRAME 1

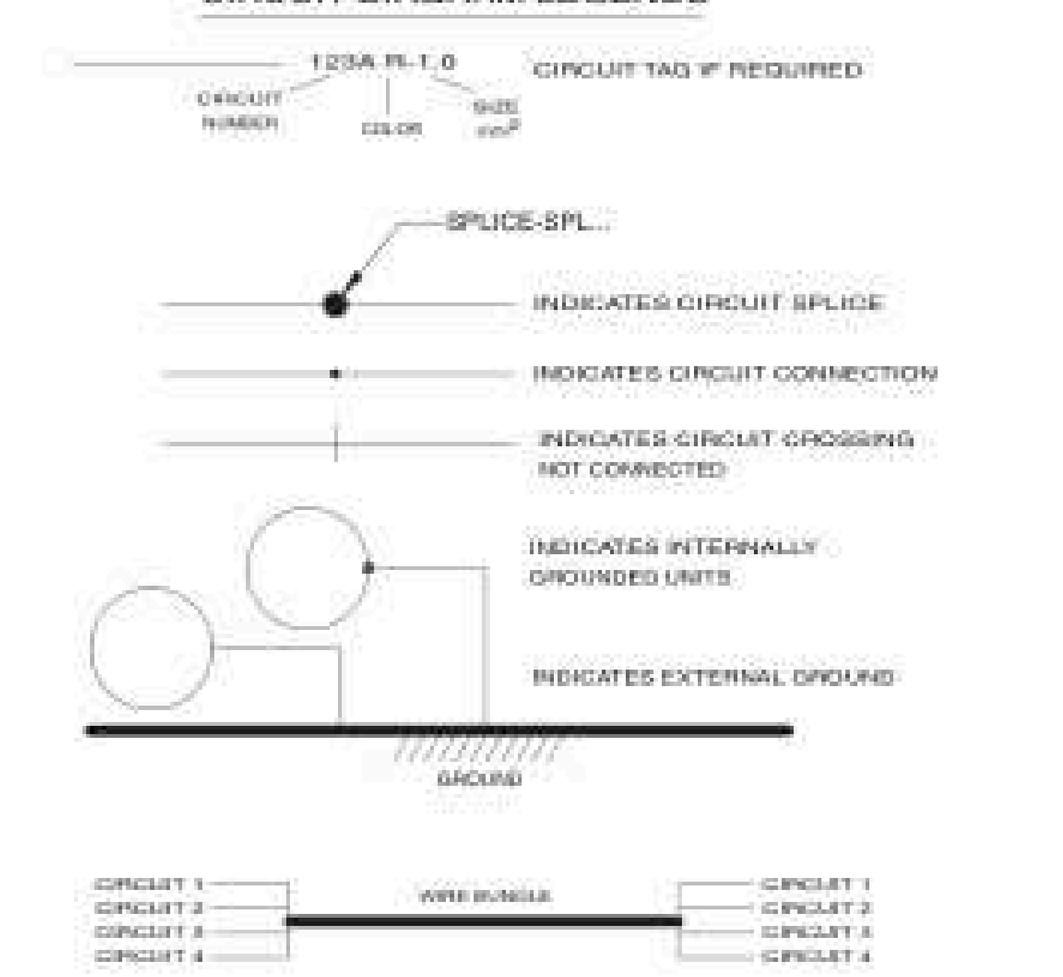


FRAME 2

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	28	FRAME 65	FRONT WIPER / WASH
2	FRAME 66	RADIO / DOME / MAP	29	FRAME 65	REAR WIPER / WASH
3	FRAME 31	IMPL AUX POWER	30	FRAME 65	FRONT LOWER WIPER
4	FRAME 67	POWER PORTS UNSW	31	FRAME 61	CAB PRESS BLOWER
5	FRAME 36	HORN	32	FRAME 67	POWER PORTS ACCY
6	FRAME 32	FLASHER	33	FRAME 63	MIRRORS / RADIO
7	FRAME 34	FNRP SWITCH	34	FRAME 66	SEAT HEATER
8	FRAME 13	SERVICE TOOL	35	FRAME 13	CASE DATA BUS
9	FRAME 24	ICU / PMU DISPLAY	36	FRAME 25	ICU / PMU DISPLAY
10	FRAME 71	AFS CCU	37	FRAME 47	ARMREST (ARU)
11	FRAME 57	ENGINE GOV UNSW	38	FRAME 37	TRANSMISSION (TRCU)
12	FRAME 67	CIGAR LIGHTER 1	39	FRAME 53	ELEC HYDRAULICS (AUX)
13	FRAME 67	CIGAR LIGHTER 2	40	FRAME 50	TPH (EDC)
14	FRAME 67	CIGAR LIGHTER 3	41	FRAME 35	AFS / RADAR
15	FRAME 28	REAR ROOF LAMPS	42	FRAME 42	STEERING (STCU)
16	FRAME 28	FRONT ROOF LAMPS	43	FRAME 30	SIDE HIGH BEAM
17	FRAME 28	WORKLIGHT INTERLOCK	44	FRAME 30	CENTER HIGH BEAM
18	FRAME 70	STROBE LAMP	45	FRAME 30	LEFT HIGH BEAM
19	FRAME 66	SEAT POWER	46	FRAME 30	RIGHT HIGH BEAM
20	FRAME 19	PTO / STARTER SOL	47	FRAME 30	LEFT LOW BEAM
21	FRAME 49	DIFF LOCK SOLENOIDS	48	FRAME 30	RIGHT LOW BEAM
22	FRAME 57	ENGINE GOV SW	49	FRAME 29	REAR FENDER LAMPS
23	FRAME 44	AXLE LUBE TEMP SW	50	FRAME 29	REAR FENDER LAMPS
24	FRAME 61	HVAC F-/C - CONVERSION	51	FRAME 33	TAIL / POS / HAZ
25	FRAME 61	HVAC MICROPROCESSOR	52	FRAME 54	COM RADIO
26	FRAME 61	HVAC MODULE	53	FRAME 36	BACKUP ALARM
27	FRAME 36	ETHER	54	FRAME 33	BRAKE LIGHTS
28	FRAME 49	REAR DIFF LOCK LATCH	55	FRAME 49	FRONT DIFF LOCK LATCH

TABLE OF RELAYS

			FUNCTION				FUNCTION
R1	FRAME 30	163	FRONT HIGH BEAM	R16	FRAME 36	264	NEUTRAL LATCH
R2	FRAME 29	164	REAR FENDER LAMPS	R17	FRAME 36	264	NEUTRAL
R3	FRAME 20	163	IGNITION POWER	R18	FRAME 61	265	CAB PRESSURE BLOWER
R4	FRAME 20	264	CONTROLLER POWER	R19	FRAME 31	265	IMPL AUXILLARY POWER
R5	FRAME 20	262	ACCESSORY POWER	R20	FRAME 31	265	FRONT LOW BEAM
R6	FRAME 49	263	REAR DIFF LOCK	R21	FRAME 19	265	PTO
R7	FRAME 49	263	FRONT DIFF LOCK	R22	FRAME 19	265	FNRP START
R8	FRAME 36	263	COLD START ETHER	R23	FRAME 38	266	TRANSMISSION POWER
R9	FRAME 28	263	REAR ROOF	R24	FRAME 72	265	AFS IMPLEMENT PWR
R10	FRAME 28	263	FRONT ROOF				
R11	FRAME 28	263	WORK INTERLOCK				
R12	FRAME 36	264	PARK BRAKE				
R13	FRAME 42	263	STEERING CONTROL				
R14	FRAME 36	264	BACKUP ALARM				
R15	FRAME 37	263	BOTTOM OF CLUTCH				

FRAME 4

TABLE OF CONNECTOR LOCATIONS

		HARNESS			HARNESS
1	21	FRONT FRAME	51M & 51F	34	DASH / FNRP
2	21	FRONT FRAME	52		DASH
3	30	FRONT FRAME	53	52	CAB
4	30	FRONT FRAME	54	32	CAB
5	30	FRONT FRAME	55	14 53	CAB
6	30	FRONT FRAME	56	41	CAB
7M & 7F	21 34 36 37 49 57 61	CAB / DASH	57	15 41	CAB
8M & 8F	25 29 32 36 49 61 63	CAB / REAR FRAME	58	50	CAB
9M & 9F	34	DASH / FNRP	59	14 50	CAB
10M & 10F	28 32 64 65 70	CAB / ROOF	60M & 60F	16 28 36 50 56 57 63	FRONT FRAME/ENGINE
11	28	CAB	61	12 24	CAB
12	28	CAB	62	12 27	CAB
13	17 56	ENGINE	63M & 63F	54	MEG CAB/MEG CHASSIS
14M & 14F	34	DASH / FNRP	64M & 64F	40	FRONT FRAME
15	49	DASH	65M & 65F	40	FRONT FRAME
16M & 16F	28	ROOF	66M & 66F	26	REAR FRAME
17M & 17F	28	ROOF	67A & 67B	20	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	26	FRONT FRAME	72M & 72F	62	ENGINE
23	26	FRONT FRAME	73	36	ETHER
24	26	FRONT FRAME	73A & 73B	36	FRONT FRAME
25M & 25F	26	FRONT FRAME/ETHER	75		
26	27	CAB	76		
27	27	CAB	77M & 77F	20	FRONT FRAME/ENGINE
28	15 37	CAB	78	18	FRONT FRAME
29M & 29F	40	TRANSMISSION	79	18	FRONT FRAME
30M & 30F	40	TRANSMISSION	80M & 80F	19 20	FRONT FRAME
31M & 31F	40	TRANSMISSION	81	18	FRONT FRAME/ENGINE
32M & 32F	40	TRANSMISSION	82	18	FRONT FRAME
33M & 33F	40	TRANSMISSION	83		
34M & 34F	40	TRANSMISSION	84	18	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	26	FRONT FRAME
39	40	TRANSMISSION	89	26	FRONT FRAME
40M & 40F	42	FRONT FRAME/RCS	90	61	CAB
41M & 41F	43	FRONT FRAME	91	67	CAB
42M & 42F	42	FRONT FRAME	92	54	MEG CAB
43	24	MEG CAB	93	54	MEG CAB
44	40	TRANSMISSION	94M & 94F	66	CAB
45	65	WIPER	95A-D	62	CAB
46	65	WIPER	96M & 96F	63	CAB
47M & 47F	28	ROOF	97M & 97F	63	CAB
48M & 48F	28	ROOF	98	66	ROOF
49	30	FRONT FRAME	99	65	ROOF
50	26	DASH	100		

FRAME 5

TABLE OF CONNECTOR LOCATIONS (CONTINUED)

		HARNESS			HARNESS
101	21	DASH	151M & 151F	31	REAR FRAME
102A-C	66	CAB	152M & 152F	31	REAR FRAME
103A-C	66	CAB	153	33	CAB
104	32	ROOF	154	33	CAB
105	32	ROOF	155	31	REAR FRAME
106	32	ROOF	156	54	MEG-CAB
107	32	ROOF	157	37	CAB
108M & 108F	66	AM/FM/WB ANTENNA	158	49	AXLE
109	63		159	30	REAR FRAME
110	45	DASH	160	49	FRONT FRAME
111	54	MEG-CHASSIS	161	31	DASH
112M & 112F	64	ROOF	162	34	DASH
113M & 113F	64	ROOF	163	33	CAB
114M & 114F	70	ROOF	164	66	DASH
115	65	ROOF	165	67	CAB
116	65	ROOF	166		
117M & 117F	43	FRONT FRAME	167M & 167F	67	CAB
118	32	ROOF	168M & 168F	67	CAB
119	43	FRONT FRAME	169M & 169F	67	CAB
120	33	ROOF	170	66	CAB
121	63	AM/FM/WB ANTENNA	171	25	CAB
122	63	CAB	172A & 172B	64	CAB
123	62	CAB	173A-B	21 22	CAB
124M & 124F	63	CAB	174	14	CAB
125M & 125F	61	CAB	175	15	CAB
126	63	CAB	176		
127	65	CAB	177		
128	63	CAB	178		
129	70	CAB	179		
130	54	CAB	180		
131	54	MEG-CHASSIS	181		
132M & 132F	63	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	59 60 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	195	54	MEG-CAB
146	41	RCS CAB	196	54	MEG-CAB
147	33	REAR FRAME	197	13	CAB
148	37	FRONT FRAME	198	13	CAB
149	37	REAR FRAME	199		
150M & 150F	53	REAR FRAME	200A & 200B	33	CAB

FRAME 6

TABLE OF CONNECTOR LOCATIONS (CONTINUED)

		HARNESS			HARNESS
201	44	FRONT FRAME	251	58	NON ARU
202	54	MEG-CHASSIS	252M & 252F	26	FRONT FRAME
203	54	MEG-CHASSIS	253	58	NON ARU
204	54	MEG-CHASSIS	254M & 254F	71	AFS CAB/AFS ARU
205	17 18	ENGINE	255A-D	58	CAB
206	18	ENGINE	256		
207F	56	ENGINE	257		
208M	56	ENGINE	258A-D	58	CAB
209M	56	ENGINE	259M & 259F	63	CAB
210	61	ENGINE	260		
211M & 211F	27	CAB	261	FUSE BLOCK	CAB
212	66	FRONT FRAME	262	FUSE BLOCK	CAB
213	66	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	272A	13	CAB & AFS CAB
223M & 223F			273M & 273F	71	CAB & AFS CAB
224	32	ROOF	274M & 274F	42	CAB & RCS
225	32	ROOF	275		
226	36	CAB	276		
227M & 227F	29	REAR FRAME	277M & 277F	13	CAB & DCS
228M & 228F			278M & 278F	72	AFS CAB/AFS CHAS
229M & 229F	33	REAR FRAME	279M & 279F	61	CAB
230M & 230F	33	REAR FRAME	280	55	ENGINE
231	36	CAB	281		
232M & 232F	29	REAR FRAME	282	72	AFS CHASSIS
233	33	REAR FRAME	283	72	AFS CHASSIS
234	32	REAR FRAME	284	29	CAB
235M & 235F	29	REAR FRAME	285	71	AFS ARU
236M & 236F	33	MARKER LIGHT	286	71	AFS ARU
237M & 237F	33	MARKER LIGHT	287		
238	58	CAB	288		
239	58	CAB	289	71	AFS CAB
240M & 240F	19	CAB	290	71	AFS CAB
241	65	CAB	291	71	AFS CAB
242	31	CAB	292	71	AFS CAB
243M & 243F	61	CAB	293	71	AFS CAB
244	65	ENGINE	294	71	AFS ARU
245			295		
246	58	NON ARU	296	72	AFS CAB
247	58	NON ARU	297	72	AFS CHASSIS
248	58	NON ARU	298	72	AFS CAB
249	58	NON ARU	299	71	AFS CAB
250M & 250F	57	CAB / NON ARU	300	71	AFS 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			
305G & 305L	19	BATTERY			
306G & 306L	33	BATTERY			
307B & 307L	33	BATTERY			
308	19	BATTERY			
309					
310					
311	19	BATTERY			
312M & 312F	51	REAR FRAME			
313					
314B & 314L	19	BATTERY			
315G & 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	AFS CHASSIS			
327(FUSE)	72	AFS CHASSIS			
328					
330	63	AM/FM/WB ANTENNA			
331	30	FRONT FRAME			
332M & 332F	30	FRONT FRAME/WIPER			
333M & 333F	16 19 20 30 36 38 57 61 65	CAB & FRONT FRAME			
334M & 334F	19 20 30 36 38 44 49 63	CAB & FRONT FRAME			
335M & 335F	26 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			

FRAME 8

TABLE OF SPLICES

SPLICE NAME	DIAGRAM LOCATION	HARNESS USED ON	CIRCUIT
SPL-A1	58	ARMREST HARNESS NON-ARU	SWITCHED B+
SPL-AFS1	FRAME 72	AFS CHASSIS HARNESS	SWITCHED B+
SPL-AFS2	FRAME 71	AFS CHASSIS HARNESS	IMPL SWITCHED B+
SPL-AFS3	FRAME 71	AFS CHASSIS HARNESS	AFS 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 66	CAB HARNESS	OVERHEAD BACKLITES B+
SPL-C6	FRAME 66	CAB HARNESS	RADIO/DOME B+ UNSW
SPL-C7	FRAME 66	CAB HARNESS	OVERHEAD BACKLITES GND
SPL-C8	FRAME 66	CAB HARNESS	OVERHEAD BACKLITES GND
SPL-C9	FRAME 61	CAB HARNESS	TEMP/HACBLER POT GND
SPL-C10	FRAME 66	CAB HARNESS	SEAT POWER
SPL-C11	FRAME 50	CAB HARNESS	TPH W/JURIES CLN GND
SPL-C12	FRAME 36	CAB HARNESS	FWRD LMP FNRP
SPL-C13	FRAME 36	CAB HARNESS	RVRS LMP FNRP
SPL-C14	FRAME 38	CAB HARNESS	TRANSMISSION B+
SPL-C15	FRAME 36	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 GRND

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 58	ENGINE HARNESS - 13.0L	HAND THROTTLE GROUND
SPL-E2	FRAME 58	ENGINE HARNESS - 13.0L	HAND THROTTLE B+
SPL-E3	FRAME 55	ENGINE HARNESS - 13.0L	ENG GOVENOR UNSW B+
SPL-E4	FRAME 55	ENGINE HARNESS - 13.0L	ENG GOVENOR UNSW B+
SPL-E5	FRAME 55	ENGINE HARNESS - 13.0L	CLEAN GROUND
SPL-E6	FRAME 55	ENGINE HARNESS - 8.0L & 9.0L	ENG GOVENOR UNSW B+
SPL-E7	FRAME 55	ENGINE HARNESS - 8.0L & 9.0L	ENG GOVENOR UNSW B+
SPL-E8	FRAME 55	ENGINE HARNESS - 8.0L & 9.0L	CLEAN GROUND
SPL-E9	FRAME 58	ENGINE HARNESS - 8.0L & 9.0L	DECELERATOR / WIF GND
SPL-E10/E11	FRAME 62	ENGINE HARNESS 8.0L/13.0L	ETHER/COMP GROUND
SPL-E12	FRAME 58	ENGINE HARNESS - 13.0L	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 49	FRONT FRAME HARNESS	RCK 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

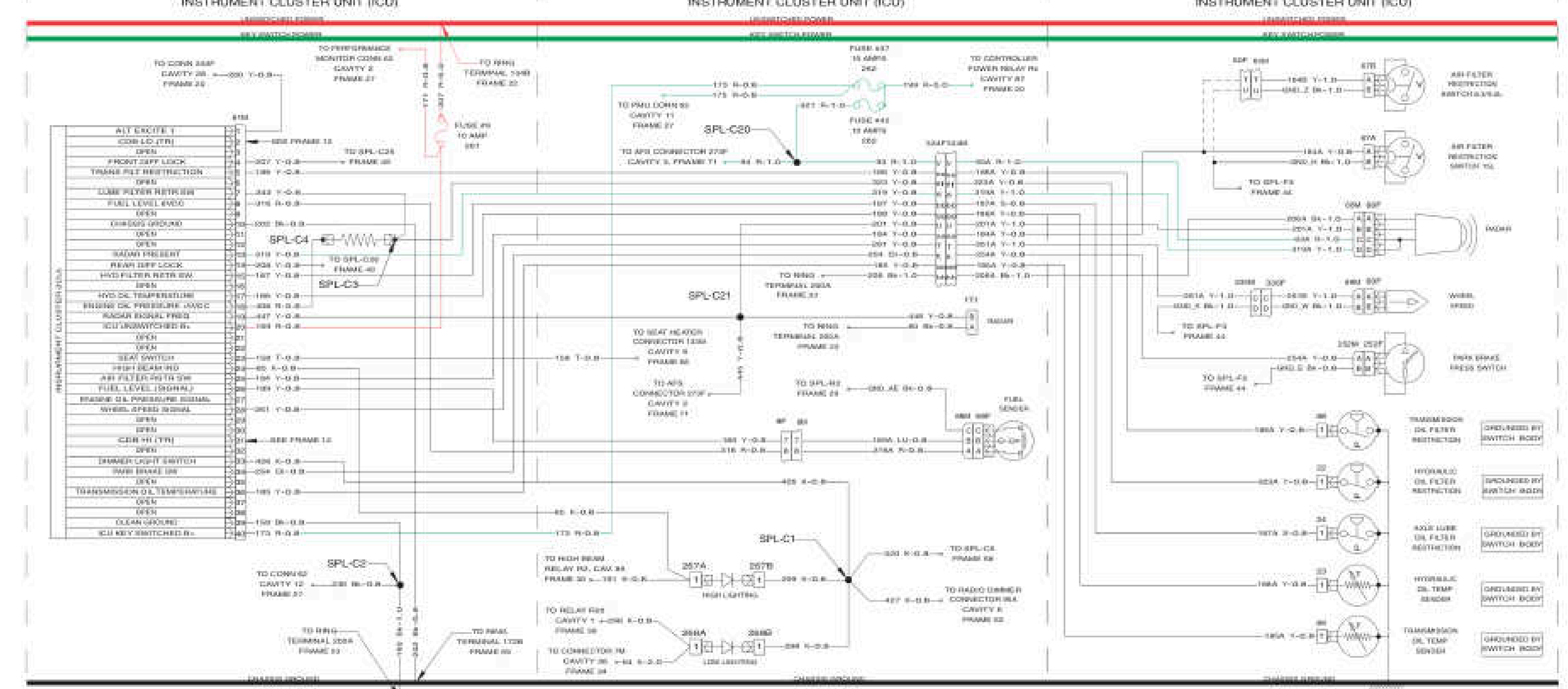
FRAME 10

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-T1	FRAME 40	TRANSMISSION CHASSIS HARNESS	8FGR PWR 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	FRAME 65	WIPER HARNESS	LT WIPER LO (ANODE)
SPL-W4	FRAME 65	WIPER HARNESS	LT WIPER LO (CATHODE)
SPL-W5	FRAME 65	WIPER HARNESS	WIPER PARK
SPL-W6	FRAME 65	WIPER HARNESS	WIPER CHASSIS GROUND
CDB-SPL-M1	FRAME 54	MEGA-FLOW HARNESS	CASE DATA BUS (IMP)
CDB-SPL-AFS1	FRAME 71	AFS CAB HARNESS	AFS CONNECTOR (IMPL)
CDB-SPL-AFS2	FRAME 71	AFS CAB HARNESS	AFS CONNECTOR (IMPL)
CDB-SPL-AFS3	FRAME 72	AFS CAB HARNESS	AFS 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 16	CAB HARNESS	CASE DATA BUS (TR)
CDB-SPL-E1	FRAME 17	ENGINE HARNESS	CASE DATA BUS (TR)
CDB-SPL-E2	FRAME 16	ENGINE HARNESS	CASE DATA BUS (TR)

FRAME 11

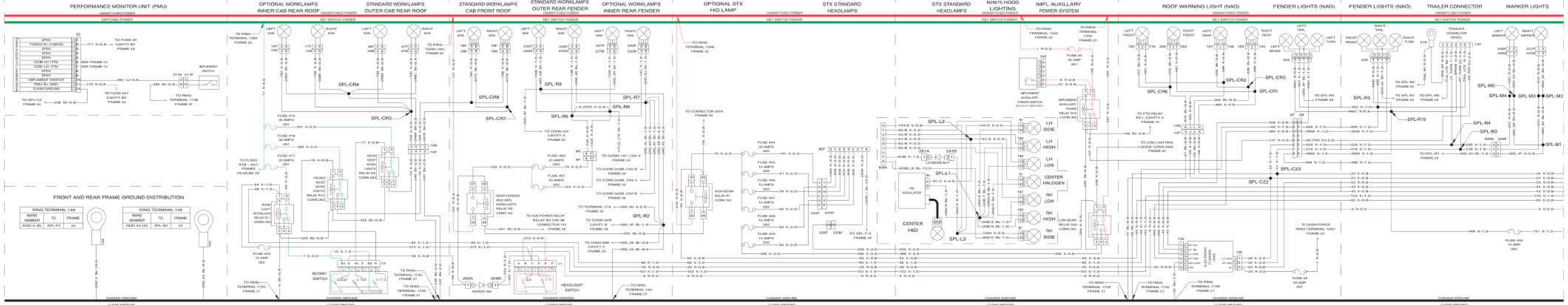
INSTRUMENT CLUSTER UNIT (ICU)



FRAME 24 FRAME 25 FRAME 26

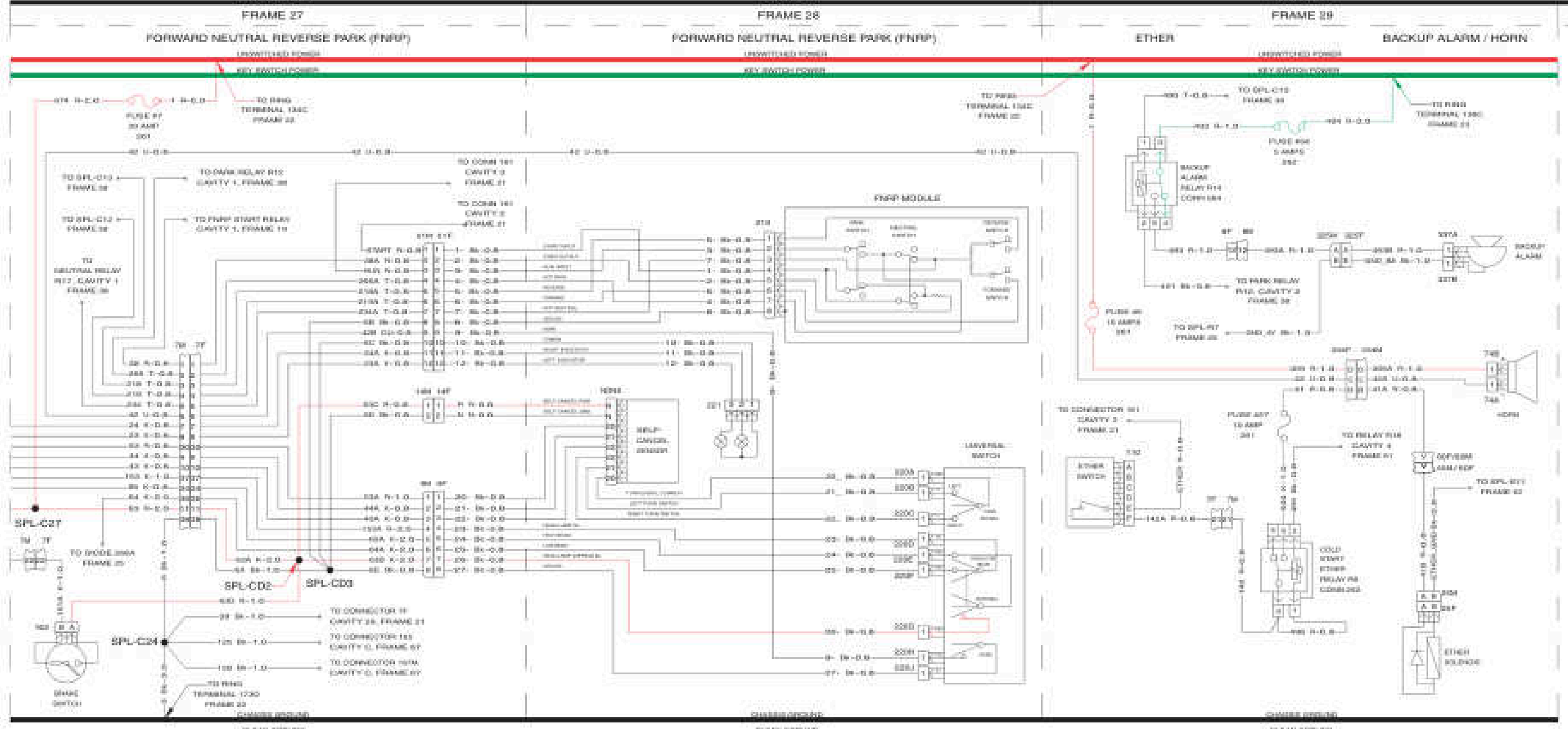
PERFORMANCE MONITOR UNIT (PMU) / OPTIONAL WORKLAMPS INNER CAB REAR ROOF / STANDARD WORKLAMPS OUTER CAB REAR ROOF / STANDARD WORKLAMPS CAB FRONT ROOF / STANDARD WORKLAMPS OUTER REAR FENDER / OPTIONAL WORKLAMPS INNER REAR FENDER / OPTIONAL STX HID LAMP / STX STANDARD HEADLAMPS / STX STANDARD HEADLAMPS / 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

TJ SERIES TRACTORS
TJ-275/325, TJ-375/425/450
POWERSHIFT TRANSMISSION
ELECTRICAL SCHEMATIC
86636867

LEGEND

INDICATES CONSTANT POWER (red)

INDICATES POWER WHEN KEY SWITCH IS ON (green)

NOTE: TRANSMISSION CONTROL LEVER IN PARK

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