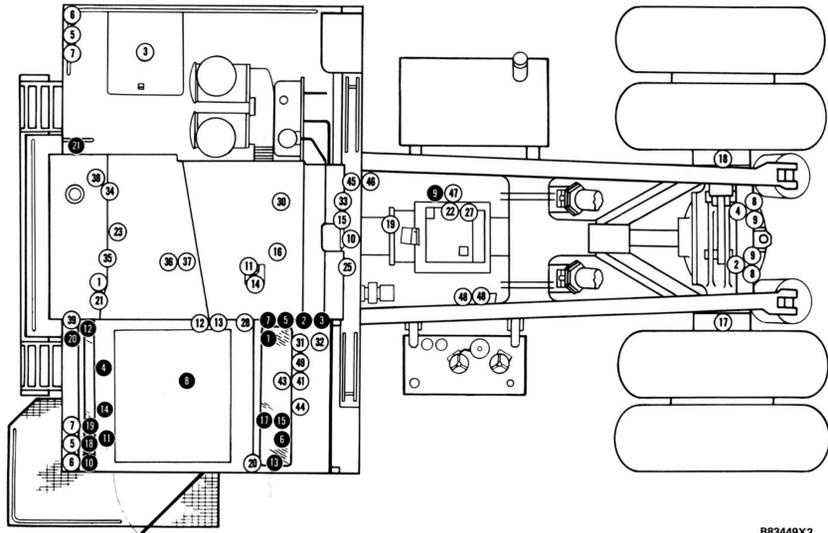


B70439X2

# Schematic

## 768C Tractor & 769C Truck Electrical System

768C: 2X350-367  
769C: 1X2876-5473



B83449X2

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CONNECTORS	IDENT.	WIRE AS. HARNES AS. AND/OR COMPONENTS	SCHEMATIC LOCATION	CONNECTORS	IDENT.	WIRE AS. HARNES AS. AND/OR COMPONENTS	SCHEMATIC LOCATION	CONNECTORS	IDENT.	WIRE AS. HARNES AS. AND/OR COMPONENTS	SCHEMATIC LOCATION
37 PIN	1	D - 5T594 Transmission Control	D-5	10 PIN	9	E - 5T7404 XX - 7T3418	A-7				
25 PIN	2	A - 6G9470 C - 5T2669	C-7	9 PIN	10	A - 6G9470 Supp. Steering	F-1	5 PIN	17	A - 6G9470 F - 5T3943	D-5
	3	A - 6G9470 B - 5T2671	C-8	8 PIN	11	A - 6G9470 R - 5T1306	D-3				
20 PIN	4	A - 6G9470 Operator Monitor	D-3	7 PIN	12	A - 6G9470 Engine Shutdown	C-2				
	5	D - 5T594 E - 5T7404	C-6		13	A - 6G9470 Transmission Speed Dist.	F-4	4 PIN	20	A - 6G9470 P - 6G9462	B-2
	6	K - 5T1147 Traction Aid Control	C-6		14	A - 6G9470 P - 6G9462	D-4				
14 PIN	7	K - 5T1147 G - 5T5040	C-6	6 PIN	15	A - 6G9470 G - 5T594	D-6				
	8	D - 5T594 ZZ - 3T2337	E-5		16	G - 5T5048 Q - 5T4988	A-7				

A - COMPONENTS INSIDE CAB

A - COMPONENTS INSIDE CAB

IDENT.	COMPONENTS	SCHEMATIC LOCATION	IDENT.	COMPONENTS	SCHEMATIC LOCATION	IDENT.	COMPONENTS	SCHEMATIC LOCATION	IDENT.	COMPONENTS	SCHEMATIC LOCATION
1	Alternator	B-2	5	Lamps - Head (H Beams)	A-2-B-2	25	Solenoid - Lockup	A-6	49	Switch - Retarder Brake (Indicator)	F-8
2	Backup Alarm	B-8	6	Lamps - Head (L Beams)	A-2-B-2	26	Solenoid - Proportional (Traction Aid)	B-7	40	Switch - Retarder Brake (Traction Aid)	F-7
3	Battery	A-4	A	Lamps - Indicator	D-2	27	Solenoid - Start Aid (EMR)	A-2	41	Switch - Retarder Brake (Transmission)	F-7
A	Breaker - Alternator	C-3	7	Lamps - Park - Turn	A-2-B-2	27	Solenoid - Upshift	A-7	A	Switch - Running Lamp	F-3
A	Breaker - Blower Motors	C-3	8	Lamps - Stop-Tail	A-8-B-8	A	Operatometer	D-3	42	Switch - Service Brake (Traction Aid)	F-7
A	Breaker - Headlamp	C-3	9	Lamps - Turn	A-8-B-8	28	Switch - Air Dryer	B-4	43	Switch - Service Brake (Trans)	F-7
A	Breaker - Key	C-3	10	Motor - Supp. Steering	A-5	A	Switch - Backup Alarm	E-5	A	Switch - Shift Lever	D-5
A	Breaker - Park, Stop & Tail Lamp	C-3	A	Motor - Blower	D-4-D-5	A	Switch - Red Brake (EMM Test)	C-5	A	Switch - Start Aid	F-3
A	Control - Engine Shutdown	C-2	11	Motors - Starter	A-4	31	Switch - Brake Air Press. (EMS)	C-8	30	Switch - Start Aid (Temp.)	A-3
A	Control - Supplemental Steering	F-1	A	Operator Monitor Panel	D-3	32	Switch - Brake Oil (EMS)	A	C-8	Switch - Supplemental Steering	F-4
A	Control - Traction Aid	C-5	A	Overvoltage Protector	C-3	33	Switch - Converter Temp. (EMS)	A-5	12	Switch - Supplemental Steering (Flow)	B-3
A	Control - Transmission Speed Dist.	D-5	13	Relay - Steering Motor	A-5	34	Switch - Coolant Flow (EMS)	A-3	A	Switch - ThermoStat	D-4
A	Control - Transmission Speed Dist.	F-4	14	Relay - Starter	D-4	35	Switch - Coolant Temp. (EMS)	A-2	A	Switch - Traction Aid Test	C-2
A	Control - Transmission Speed Dist.	F-2	A	Resistor - Panel Dimmer	F-2	A	Switch - Disconnect	F-4	45	Switch - Transmission Oil Filter (EMS)	A-5
A	Flasher	D-4	D-5	Resistor - Blower Motors	D-4	D-5	Switch - Dome Lamp	D-4	46	Switch - Transmission Oil Temp. (EMS)	A-5
A	Fuses	C-4	15	Sender - Brake Oil Temp.	A-5	A	Switch - Door Courtesy Lamp	F-4	47	Switch - Transmission	F-4
A	George - Air Pressure	F-3	16	Sender - Coolant Temp.	B-3	44	Switch - Emergency Brake (Trans.)	F-7	A	Switch - Turn	E-4
A	George - Brake Oil Temp.	E-2	17	Sender - Left Wheel Speed	A-8	36	Switch - Engine Oil Press. (EMS)	B-3	48	Switches - Blower	D-5-D-4
A	George - Coolant Temp.	E-3	18	Sender - Right Wheel Speed	A-8	37	Switch - Engine Oil Press. (Service Meter)	B-3	A	Switches - Stop Lamp	B-5
A	Lamp - Backup	A-8	19	Sender - Transmission Speed	B-7	38	Switch - Fuel Press. (EMS)	A-3	A	Switches - Stop Lamp	B-5
A	Lamp - Choke	D-4	20	Service Meter	F-4	A	Switch - Head Lamp Dimmer	F-2	A	Tachometer	E-5
A	Lamp - Door Courtesy	F-4	21	Solenoid - Air Conditioner Clutch	B-2	A	Switch - Key Start	D-3	D-3		D-3
A	Lamp - Travel	D-4	22	Solenoid - Operator	A-7	A	Switch - Operator Monitor Test	D-3	D-3		D-3
A	Lamp - Retarder Indicator	D-3	23	Solenoid - Engine Shutdown	A-2	39	Switch - Retardant	B-2			
A	Lamp - Supplemental Steering	F-3	24	Solenoid - Four Way (Traction Aid)	B-7						

CIRCUIT NUMBER	COLOR	POWER DISTRIBUTION CIRCUITS	CIRCUIT NUMBER	COLOR	MACHINE BASIC CIRCUITS (Cont.)	CIRCUIT NUMBER	COLOR	MONITORING CIRCUITS (Cont.)	CIRCUIT NUMBER	COLOR	CONTROL CIRCUITS (Cont.)
101	RD	BATTERY	313	GY	STARTER NO. 2 TO DIAGNOSTIC RESISTOR TO	450	YL	TACHOMETER SENDER (-)	710	GN	TRANSMISSION SPEED PICKUP SIGNAL
102	BU	HEAD LAMP	314	PU	STARTER RELAY NO. 2 OUTPUT	451	BR	TACHOMETER SENDER (-)	711	BR	TRANSMISSION LEVER CODE 1
103	YL	DOVE DASH LAMP/PARK TAIL LAMP	321	BR	BACKUP ALARM LAMP	452	PU	TORQUE CONVERTER	712	WH	TRANSMISSION LEVER CODE 2
106	WH	MAN POWER RELAY INPUT	322	GY	WARNING HORN (FORWARD)	454	GN	RETARDER INDICATOR LAMP	714	YL	TRANSMISSION LEVER CODE 4
107	WH	ENGINE SHUT DOWN LIGHTER	323	WH	FUEL TRANSFER PUMP POWER	455	YL	CONVERTER TEMP. SWITCH TO TIME DELAY	716	GN	TRANSMISSION LEVER CODE 5
108	BU	MSC W/PER. DOVE LAMP, OIGAR	324	PK	DIFFERENTIAL LOCKUP SOLENOID	500	BR	WINDSHIELD WIPER - FRONT (PARK)	720	PU	TRANSMISSION BRAKE SWITCH
109	OR	ALTERNATOR	325	PK	FUEL PUMP RELAY OIL PRESS. SWITCH	501	GN	WINDSHIELD WIPER - FRONT (LOW)	721	BR	TRANSMISSION GEAR CODE 1
110	OR	WINDSHIELD WIPER SWITCH (RIGHT)	326	PU	KEY SWITCH "C" - TERMINAL	502	OR	WINDSHIELD WIPER - FRONT (HIGH)	722	WH	TRANSMISSION GEAR CODE 2
111	YL	WINDSHIELD WIPER SWITCH (LEFT)	327	PK	SHUTDOWN SOLENOID	503	BR	WINDSHIELD WIPER - REAR (PARK)	723	OR	TRANSMISSION GEAR CODE 3
112	PU	MAN POWER RELAY OUTPUT	327	PK	SHUTDOWN SOLENOID "OFF"	504	YL	WINDSHIELD WIPER - REAR (LOW)	724	YL	TRANSMISSION GEAR CODE 4
113	OR	OPERATOR MONITOR PANEL	328	RD	SHUTDOWN MODULE	513	OR	AIR CONDITIONER COMPRESSOR	725	GN	TRANSMISSION GEAR CODE 5
114	GN	WARNING HORN (FORWARD)	400	GN	SERVICE METER SWITCH	514	PU	AIR CONDITIONER CONDENSOR	726	BU	TRANSMISSION GEAR CODE 6
115	PK	FLOOD LAMP (FRONT)	404	YL	OPERATOR MON PANEL HYDRAULIC OIL TEMP.	515	PU	AIR CONDITIONER MOTOR	727	GN	STEERING MOTOR RELAY
116	BR	FLOOD LAMP (REAR)	405	GY	OPERATOR MON PANEL COOLANT TEMPERATURE	516	GN	OPERATOR MON PANEL FAULT LAMP	728	BR	SUPPLEMENTAL STEERING CONTROL SWITCH
117	YL	FLOOD LAMP (SIDE)	406	PU	OPERATOR MON PANEL COOLANT TEMPERATURE	517	BU	OPERATOR MON PANEL BRAKE PRESS. (AIR)	733	BR	WINDSHIELD WIPER FRONT SWITCH
118	GY	WINDSHIELD WIPER SWITCH (FRONT)	407	WH	OPERATOR MON PANEL NEUTRAL PRESS. (AIR)	520	WH	OPERATOR MON PANEL FAULT LAMP	738	OR	WINDSHIELD WIPER RIGHT SWITCH
119	PK	WINDSHIELD WIPER SWITCH (REAR)	408	PK	OPERATOR MON PANEL MASTER STOP LAMP	521	YL	AIR COND COMP TO PFTG SW	740	BR	WINDSHIELD WIPER LEFT SWITCH
120	OR	CONVERTER (24 V. 12 V.)	409	OR	OPERATOR MON PANEL FAULT LAMP	522	WH	OPERATOR AIR CONDITIONER SWITCH	741	PU	SWITCHING DOWN SOLENOID
121	YL	BACKUP ALARM LAMP/TRAVEL ALARM TIMER	410	WH	OPERATOR MON PANEL FAULT LAMP	523	BR	WINDSHIELD WIPER LEFT (PARK)	742	GN	SWITCHING DOWN SOLENOID
122	BU	AIR DRYER	411	PK	OPERATOR MON PANEL MASTER STOP LAMP	524	BU	WINDSHIELD WIPER LEFT (LOW)	746	PK	SWITCHING DOWN SOLENOID
123	WH	AIR CONDITIONER	412	BU	OPERATOR MON PANEL COOLANT FLOW	525	GY	WINDSHIELD WIPER RIGHT (PARK)	747	WH	SWITCHING DOWN SOLENOID
124	GN	GAGES (SERVICEMETER, TORQUE CONV. SOLENOID)	413	BR	OPERATOR MON PANEL FUEL PRESSURE	526	YL	WINDSHIELD WIPER RIGHT (LOW)	756	WH	TRANSMISSION LOCKUP CLUTCH SOLENOID
125	OR	AIR CONDITIONER	414	PK	OPERATOR MON PANEL LOW FUEL PRESSURE	528	PK	WINDSHIELD WIPER RIGHT (HIGH)	761	GY	LEFT KICKOUT SOLENOID SWITCH
126	PK	FUEL TRANSFER PUMP	415	GN	OPERATOR MON PANEL TEST SWITCH	529	WH	WINDSHIELD WIPER RIGHT (LOW)	762	YL	BUCKET POSITIONER SOLENOID SWITCH
127	OR	TRANSMISSION CONTROL CAB FLOOD LAMP	416	OR	SECONDARY STEERING SWITCH	531	WH	FIRE WARNING HORN	763	PU	SUPPLEMENTAL STEERING CONTROL SWITCH (MOTOR GRABBER)
128	PK	KICKOUT SOLENOID SWITCH	417	GY	PRIMARY STEERING SWITCH	532	WH	FIRE WARNING LAMP	764	PU	SUPPLEMENTAL STEERING CONTROL SWITCH (MOTOR GRABBER)
129	BU	STOP LAMP	418	YL	OPERATOR MON PANEL OIL PRESSURE (HIGH SETTING)	533	RD	HEAT SENSOR TEST SWITCH	765	OR	ANTISPIN PICKUP POWER
130	GN	STOP LAMP	419	YL	OPERATOR MON PANEL PARKING BRAKE	536	OR	TRAVEL ALARM TIMER PRESS SWITCH	767	WH	ANTISPIN PICKUP TRANSMISSION
131	BR	FIRE CONTROL/OPERATOR WARNING	420	OR	OPERATOR MON PANEL FUEL FILTER LOW ACCUM PRESS.	537	GR	TURN SIGNAL SWITCH TO FLASHER	768	OR	ANTISPIN PICKUP LEFT
132	PK	ANTISPIN CONTROL	421	BU	OPERATOR MON PANEL FAULT LAMP	538	BR	HAZARD INDICATOR	771	PU	ANTISPIN SERVICE BRAKE SWITCH
133	OR	PROGRAMMED ELECTRONIC ENG CONT SOLENOID	422	YL	OPERATOR MON WARNING HORN (SCRAPER)	539	BU	TURN SIGNAL INDICATOR	772	BR	ANTISPIN RETARDER SWITCH
134	PK	PROGRAMMED ELECTRONIC ENG CONT LOGIC	423	GY	OPERATOR MON PANEL TEST SWITCH (SCRAPER)	540	WH	BASIC RIGHT TURN SIGNAL INDICATOR LEFT	773	GY	ANTISPIN SERVOVALVE
136	GN	SUPPLEMENTAL STEERING	205	BK	INSTRUMENT	205	BK	OPERATOR MON PANEL TEST SWITCH (SCRAPER)	774	YL	ANTISPIN SOLENOID - LEFT
137	RD	STEERING MOTOR INDICATOR	206	BK	BATTERY SIDE OF DISCONNECT	206	BK	STARTER DIAGNOSTIC	775	BR	ANTISPIN SOLENOID - RIGHT
138	GN	AUTOMATIC LUBE PUMP (TRUCK)	207	BK	STARTER DIAGNOSTIC	212	BK	ANTISPIN COORDING PIN 16	600	BR	DASH BASIC
141	PK	AUXILIARY HEATER	212	BK	ANTISPIN COORDING PIN 17	213	BK	ANTISPIN COORDING PIN 17	601	GY	DASH HIGH
			213	BK	ANTISPIN COORDING PIN 18	214	BK	ANTISPIN COORDING PIN 18	602	WH	DOVE
			214	BK	ANTISPIN COORDING PIN 19	215	BK	ANTISPIN COORDING PIN 19	603	PK	ROTARY BEACON
			215	BK	ANTISPIN COORDING PIN 20	216	BK	ANTISPIN COORDING PIN 20	604	OR	STOP
			216	BK	TRANSMISSION COORDING PIN 17	217	BK	TRANSMISSION COORDING PIN 17	605	YL	TURN LEFT
			217	BK	TRANSMISSION COORDING PIN 18	218	BK	TRANSMISSION COORDING PIN 18	606	OR	TURN RIGHT
			218	BK	TRANSMISSION COORDING PIN 19	219	BK	TRANSMISSION COORDING PIN 19	607	PK	FLOOD FRONT
			219	BK	TRANSMISSION COORDING PIN 20	220	BK	OPERATOR MON PANEL SET POINT	608	YL	FLOOD REAR
			220	BK	OPERATOR MON PANEL TIME DELAY PIN 6	227	BK	TRANSMISSION COORDING PIN 37	609	OR	FLOOD BASIC
			227	BK	TRANSMISSION COORDING PIN 16	231	BK	TRANSMISSION SW	610	OR	HEAD LAMP BASIC
			231	BK	TRANSMISSION SW	233	BK	ANTISPIN COORDING PIN 17	611	OR	HEAD LAMP HIGH
			233	BK	ANTISPIN COORDING PIN 17	234	BK	ANTISPIN COORDING PIN 18	612	OR	BACKUP
			234	BK	ANTISPIN COORDING PIN 18	235	BK	ANTISPIN COORDING PIN 19	613	OR	LOCKUP PLATE
			235	BK	ANTISPIN COORDING PIN 19	241	BK	OPERATOR MON PANEL TIME DELAY PIN 6	614	PU	PARK TAIL DASH CAB FLOOD LAMP
			241	BK	OPERATOR MON PANEL TIME DELAY PIN 6	242	BK	OPERATOR MON PANEL BRAKE DELAY PIN 6	616	BU	BUCKET FLOOD
			242	BK	OPERATOR MON PANEL BRAKE DELAY PIN 6	243	BK	OPERATOR MON PANEL TIME DELAY PIN 6	617	BR	TAIL POSITION LAMP LEFT (LOADING PACKAGE)
			243	BK	OPERATOR MON PANEL TIME DELAY PIN 6	244	BK	OPERATOR MON PANEL TIME DELAY PIN 6	618	YL	TAIL POSITION LAMP RIGHT (LOADING PACKAGE)
			244	BK	OPERATOR MON PANEL TIME DELAY PIN 6	301	BU	STARTER NO. 1 SOLENOID TO RESISTOR	619	GR	HEAD LAMP LOW
			301	BU	STARTER NO. 1 SOLENOID TO RESISTOR	302	OR	DIAGNOSTIC RESISTOR TO STARTER RELAY NO. 1 OUTPUT	620	PU	FLOOD LAMP 3 WAY SWITCH JUMPER
			302	OR	DIAGNOSTIC RESISTOR TO STARTER RELAY NO. 1 OUTPUT	303	OR	ENGINE COOLANT TEMP GAGE	621	OR	FLOOD LAMP 3 WAY SWITCH JUMPER
			303	OR	ENGINE COOLANT TEMP GAGE	304	WH	HYDRAULIC SYSTEM TEMP GAGE	622	OR	TRANSMISSION DOWN SOLENOID
			304	WH	HYDRAULIC SYSTEM TEMP GAGE	306	GN	CONV. RETARDER OIL TEMP GAGE	623	PK	TRANSMISSION LOCKUP CLUTCH SOL
			306	GN	CONV. RETARDER OIL TEMP GAGE	308	YL	ETHER SWITCH TO ETHER SOLENOID	624	OR	TRANSMISSION BED RAISE SWITCH
			308	YL	ETHER SWITCH TO ETHER SOLENOID	310	PU	ETHER SWITCH TO ETHER SOLENOID	625	OR	COURTESY LAMP
			310	PU	ETHER SWITCH TO ETHER SOLENOID	311	WH	MAN POWER RELAY COIL	626	BR	TRANSMISSION RETARDER SWITCH
			311	WH	MAN POWER RELAY COIL	312	PK	STARTER NO. 2 SOLENOID TO RESISTOR	700	OR	TRANSMISSION HOLD SWITCH
			312</								

