

Wire Description											
Wire Number	Wire Color	Description	Wire Number	Wire Color	Description	Wire Number	Wire Color	Description	Wire Number	Wire Color	Description
<b>Power Circuits</b>			<b>Basic Machine Circuits (Continued)</b>			<b>Monitoring Circuits (Continued)</b>			<b>Control Circuits (Continued)</b>		
101	RD	BATTERY	313	GY	STARTER NO. 2 TO DIAGNOSTIC RESISTOR TO	450	YL	TACHOMETER SENDER (+)	712	WH	TRANSMISSION LEVER CODE 2
102	BU	HEAD LAMP				451	BR	TACHOMETER SENDER (-)	713	OR	TRANSMISSION LEVER CODE 3
103	YL	DOME / DASH LAMP / PARK, TAIL LAMP				452	PU	TORQUE CONVERTER	714	YL	TRANSMISSION LEVER CODE 4
105	BR	KEY SWITCH	314	PU	STARTER RELAY NO. 2 OUTPUT	453	PK	SECONDARY STEERING FAULT LAMP	715	GN	TRANSMISSION LEVER CODE 5
106	WH	MAIN POWER RELAY/INPUT	321	BR	BACKUP ALARM / LAMP	454	GN	RETARDER INDICATOR LAMP	716	BU	TRANSMISSION LEVER CODE 6
107	WH	ENGINE SHUT DOWN	322	GY	WARNING HORN (FORWARD)	455	YL	CONVERTER TEMP SWITCH TO TIME DELAY	720	PU	TRANSMISSION BRAKE SWITCH
108	BU	MISC WIPER, DOME LAMP, CIGAR LIGHTER	323	WH	FUEL TRANSFER PUMP POWER				721	BR	TRANSMISSION GEAR CODE 1
109	OR	ALTERNATOR	324	BU	DIFFERENTIAL LOCKUP SOLENOID				722	WH	TRANSMISSION GEAR CODE 2
110	GN	WINDSHIELD WIPER SWITCH (RIGHT)	325	PK	FUEL PUMP RELAY OIL PRESS. SWITCH				723	OR	TRANSMISSION GEAR CODE 3
111	YL	WINDSHIELD WIPER SWITCH (LEFT)	326	PU	KEY SWITCH C' TERMINAL				724	YL	TRANSMISSION GEAR CODE 4
112	PU	MAIN POWER RELAY OUTPUT	327	PK	SHUTDOWN SOLENOID				725	GN	TRANSMISSION GEAR CODE 5
113	OR	OPERATOR MONITOR PANEL	328	RD	SHUTDOWN MODULE OFF				726	BU	TRANSMISSION GEAR CODE 6
114	GN	WARNING HORN (FORWARD)	<b>Monitoring Circuits</b>						727	GN	STEERING MOTOR RELAY
115	PK	FLOOD LAMP (FRONT)	400	GN	Service Meter SWITCH	500	BR	WINDSHIELD WIPER - FRONT (PARK)	728	BU	SUPPLEMENTAL STEERING CONTROL SWITCH
116	BR	FLOOD LAMP (REAR)	403	GN	ALTERNATOR (R) TERMINAL	501	GN	WINDSHIELD WIPER - FRONT (LOW)	733	BR	SWITCHING GEAR CODE 1 FRONT
117	YL	FLOOD LAMP (SIDE)	404	YL	OPERATOR MON PANEL HYDRAULIC OIL TEMP	502	OR	WINDSHIELD WIPER - FRONT (HIGH)	734	WH	SWITCHING GEAR CODE 2 FRONT
118	GY	WINDSHIELD WIPER SWITCH (FRONT)	405	GY	OPERATOR MON PANEL OIL PRESSURE	503	BR	WINDSHIELD WIPER - REAR (PARK)	735	OR	SWITCHING GEAR CODE 3 FRONT
119	PK	WINDSHIELD WIPER SWITCH (REAR)	406	PU	OPERATOR MON PANEL COOLANT TEMPERATURE	504	YL	WINDSHIELD WIPER - REAR (LOW)	736	YL	SWITCHING GEAR CODE 4 FRONT
120	YL	CONVERTER (24 V to 12 V)	407	PK	OPERATOR MON PANEL CONV/RETARDER OIL TEMP	505	BU	WINDSHIELD WIPER - REAR (HIGH)	737	GN	SWITCHING GEAR CODE 5 FRONT
121	YL	BACKUP ALARM/LAMP/TRAVEL ALARM TIMER	408	WH	OPERATOR MON PANEL BRAKE PRESS. (AIR)	506	PU	WINDSHIELD WASHER FRONT	738	BR	SWITCHING GEAR CODE 1 REAR
122	BU	AIR DRYER	409	OR	OPERATOR MON PANEL NEUTRAL	507	WH	WINDSHIELD WASHER REAR	739	WH	SWITCHING GEAR CODE 2 REAR
123	WH	GAGES (SERVICEMETER, TORQUE CONV SOLENOID)	410	WH	OPERATOR MON PANEL FAULT ALARM	510	YL	WINDSHIELD WASHER-PRIMER	740	OR	SWITCHING GEAR CODE 3 REAR
124	GN	AIR CONDITIONER	411	PK	OPERATOR MON PANEL MASTER FAULT LAMP	513	OR	AIR CONDITIONER COMPRESSOR	741	YL	SWITCHING GEAR CODE 4 REAR
125	OR	FUEL TRANSFER PUMP	412	BU	OPERATOR MON PANEL COOLANT FLOW	514	PU	AIR CONDITIONER CONDENSOR MOTOR	742	GN	SWITCHING GEAR CODE 5 REAR
126	PK	TRANSMISSION CONTROL	413	BR	OPERATOR MON PANEL FUEL PRESSURE	515	GY	BLOWER MOTOR (HIGH)	743	PU	SWITCHING NEUTRAL / RUN SWITCH
127	OR	CAB FLOOD LAMP	414	PK	OPERATOR MON PANEL LOW FUEL	516	GN	BLOWER MOTOR (MEDIUM)	744	BU	SWITCHING UP SOLENOID
128	PK	KICKOUT SOLENOID SWITCH	415	GN	OPERATOR MON PANEL TEST SWITCH	517	BU	BLOWER MOTOR (LOW)	745	GY	SWITCHING DOWN SOLENOID
129	BU	CIGAR LIGHTER	416	OR	SECONDARY STEERING SWITCH	519	PK	THERMOSTAT TO DRYER PRESSURE SWITCH	746	PK	SWITCHING SYNCHRONIZE SOLENOID
130	GN	STOP LAMP	417	GY	PRIMARY STEERING SWITCH	520	WH	OPERATOR AIR CONDITIONER SWITCH TO THERMOSTAT	747	WH	SWITCHING NO SYNCHRONIZE SOLENOID
131	BR	FIRE CONTROL-OPERATOR WARNING	418	YL	OPERATOR MON PANEL OIL PRESSURE (HIGH SETTING)	521	YL	AIR COND SW TO RFGT SW	756	WH	TRANSMISSION LOCKUP CLUTCH SOLENOID
132	PK	ANTISPIN CONTROL	419	YL	OPERATOR MON PANEL PARKING BRAKE	522	WH	AIR COND COMPRT TO THERMO SW	761	GY	LIFT KICKOUT SOLENOID SWITCH
133	OR	PROGRAMMED ELECTRONIC ENG CONT SOLENOID	420	OR	OPERATOR MON PANEL FUEL FILTER/LOW ACCUM PRESS.	523	BR	WINDSHIELD WIPER-LEFT (PARK)	762	YL	BUCKET POSITIONER SOLENOID SWITCH
134	PK	PROGRAMMED ELECTRONIC ENG CONT LOGIC	421	BU	OPERATOR MON PANEL FAULT LAMP (SCRAPER)	524	BU	WINDSHIELD WIPER-LEFT (LOW)	763	BU	TORQUE CONVERTER SOLENOID
136	GN	SUPPLEMENTAL STEERING	422	YL	OPERATOR MON PANEL WARNING HORN (SCRAPER)	525	GY	WINDSHIELD WIPER-LEFT (HIGH)	764	PU	SUPPLEMENTAL STEERING CONTROL SWITCH (MOTOR GRADER)
137	RD	STEERING MOTOR INDICATOR	423	GY	OPERATOR MON PANEL TEST SWITCH (SCRAPER)	526	YL	WINDSHIELD WIPER-RIGHT (PARK)	765	OR	APRON SOLENOID (SCRAPER)
138	GN	AUTOMATIC LUBE PUMP (TRUCK)	424	GY	OPERATOR MON PANEL POWER TRAIN TEMPERATURE	527	GN	WINDSHIELD WIPER-RIGHT (LOW)	767	WH	ANTISPIN PICKUP POWER
141	PK	AUXILIARY HEATER	425	PK	OPERATOR MON PANEL POWER TRAIN OIL LEVEL	528	PK	WINDSHIELD WIPER-RIGHT (HIGH)	768	OR	ANTISPIN PICKUP TRANSMISSION
101	RD	Bat (+)	426	BR	OPERATOR MON PANEL POWER TRAIN OIL FILTER	529	WH	WINDSHIELD WASHER-LEFT	769	BU	ANTISPIN PICKUP LEFT
102	BU	Hd Lmp	427	GN	OPERATOR MON PANEL POWER TRAIN OIL FILTER JUMPER	530	OR	WINDSHIELD WASHER-RIGHT	770	GN	ANTISPIN PICKUP RIGHT
200	BK	MAIN CHASSIS	428	OR	OPERATOR MON PANEL TRANSMISSION OIL TEMP	531	WH	FIRE WARNING HORN	771	PU	ANTISPIN SERVICE BRAKE SWITCH
201	BK	OPERATOR MONITOR PANEL	429	YL	OPERATOR MON PANEL BRAKE OIL TEMPERATURE	532	WH	FIRE WARNING LAMP	772	BR	ANTISPIN RETARDER SWITCH
202	BK	TRANSMISSION CONTROL	431	GN	OPERATOR MON PANEL LOW TRANSFER PUMP PRESS.	533	RD	HEAT SENSOR/TEST SWITCH	773	GY	ANTISPIN SERVOVALVE
203	BK	CHASSIS DIAGNOSTIC	432	PK	OPERATOR MON PANEL BRAKE PRESSURE (OIL)	534	WH	HEAT SENSOR/TEST SWITCH	774	YL	ANTISPIN SOLENOID - LEFT
204	BK	OPERATOR MONITOR PANEL (SCRAPER)	433	BU	OPERATOR MON PANEL BRAKE PRESS. (OIL) JUMPER	535	BU	TRAVEL ALARM TIMER PRESS SWITCH	775	BR	ANTISPIN SOLENOID - RIGHT
205	BK	INSTRUMENT	434	BU	OPERATOR MON PANEL POWER TRAIN TEMP JUMPER	536	OR	TRAVEL ALARM TIMER MANUAL OVERRIDE			
206	BK	BATTERY SIDE OF DISCONNECT	435	YL	OPERATOR MON PANEL POWER TRAIN TEMP JUMPER	537	GR	TURN SIGNAL SWITCH TO FLASHER			
207	BK	STARTER DIAGNOSTIC	436	OR	OPERATOR MON PANEL POWER TRAIN TEMP JUMPER	538	BR	HAZARD INDICATOR			
212	BK	ANTISPIN CODING PIN 16	437	BR	OPERATOR MON PANEL FUEL LEVEL TO FUEL FILTER JUMPER	539	BU	TURN SIGNAL INDICATOR BASIC / RIGHT			
213	BK	ANTISPIN CODING PIN 17	438	YL	OPERATOR MON PANEL COOLANT TEMP JUMPER	540	WH	TURN SIGNAL INDICATOR LEFT			
214	BK	ANTISPIN CODING PIN 18	440	BR	AIR PRESS. GAGE	<b>Lighting Circuits</b>					
215	BK	ANTISPIN CODING PIN 19	441	OR	ENGINE COOLANT TEMP GAGE	600	BR	DASH BASIC			
216	BK	ANTISPIN CODING PIN 20	442	GY	HYDRAULIC SYSTEM TEMP GAGE	601	GY	DASH HIGH			
217	BK	TRANSMISSION CODING PIN 17	443	YL	POWER TRAIN TEMP GAGE	602	WH	DOME			
218	BK	TRANSMISSION CODING PIN 18	444	BU	CONV/RETARDER OIL TEMP GAGE (TRACTOR)	603	PK	ROTARY BEACON			
219	BK	TRANSMISSION CODING PIN 19	445	GN	CONV / RETARDER OIL TEMP GAGE (SCRAPER)	604	OR	STOP			
226	BK	OPERATOR MON PANEL SET POINT SELECT	446	PU	BRAKE OIL TEMPERATURE GAGE	605	YL	TURN LEFT			
227	BK	TRANSMISSION CODING PIN 37	449	BU	SPEEDOMETER SENDER	606	GY	TURN RIGHT			
231	BK	TRANSMISSION SW				607	PK	FLOOD FRONT			
236	BK	TRANSMISSION CODING PIN 36				608	GN	FLOOD REAR			
241	BK	OPERATOR MON PANEL TIME DELAY PIN 3				609	YL	FLOOD SIDE			
242	BK	OPERATOR MON PANEL TIME DELAY PIN 4				610	OR	HEAD LAMP BASIC			
243	BK	OPERATOR MON PANEL TIME DELAY PIN 5				611	PU	HEAD LAMP HIGH			
244	BK	OPERATOR MON PANEL TIME DELAY PIN 6				612	GY	BACKUP			
301	BU	STARTER NO. 1 SOLENOID TO RESISTOR				613	PK	LICENSE PLATE			
302	OR	STARTER NO. 1 TO DIAGNOSTIC RESISTOR TO				614	PU	PARK/TAILEDASH			
304	WH	STARTER RELAY NO. 1 OUTPUT				615	YL	CAB FLOOD/ROPS			
306	GN	STARTER RELAY COIL / NEUTRAL START SWITCH				616	BU	BUCKET FLOOD			
308	YL	MAIN POWER RELAY COIL				617	BR	TAIL/POSITION LAMP-LEFT (LOADING PACKAGE)			
310	PU	ETHER SWITCH TO ETHER SOLENOID				618	YL	TAIL/POSITION LAMP-RIGHT (LOADING PACKAGE)			
311	WH	ETHER SOLENOID TO TEMPERATURE SWITCH				619	GR	HEAD LAMP LOW			
312	PK	STARTER NO.2 SOLENOID				622	PU	FLOODLAMP 3 WAY SWITCH JUMPER			
						623	BU	FLOODLAMP 3 WAY SWITCH JUMPER			
						624	YL	FLOODLAMP BOWL			
						625	BK	COURTESY LAMP			
						<b>Control Circuits</b>					
						702	OR	TRANSMISSION BRAKE SWITCH JUMPER			
						703	BU	TRANSMISSION UP SOLENOID			
						704	GY	TRANSMISSION DOWN SOLENOID			
						705	PK	TRANSMISSION LOCKUP CLUTCH SOL BASIC			
						706	BR	TRANSMISSION RETARDER SWITCH			
						707	PU	TRANSMISSION BED RAISE SWITCH			
						708	YL	TRANSMISSION HOLD SWITCH			
						709	OR	TRANSMISSION PICKUP POWER			
						710	GN	TRANSMISSION SPEED PICKUP SIGNAL			
						711	BR	TRANSMISSION LEVER CODE 1			



SENR3019  
January 1984

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## Power Train Electrical System for Off Highway Tractors and Trucks with Electronic Power Shift Transmission Control System for ICM

For use in Service Manuals:  
776 Tractor & 777 Truck, SENR2965  
772B Tractor & 773B Truck SENR2950  
768C Tractor & 769C Truck, SENR2930

