

c1026x1

HARNESS CONNECTOR AND COMPONENT LOCATIONS

A-COMPONENTS INSIDE CAB B-COMPONENTS ON RELAY PANEL

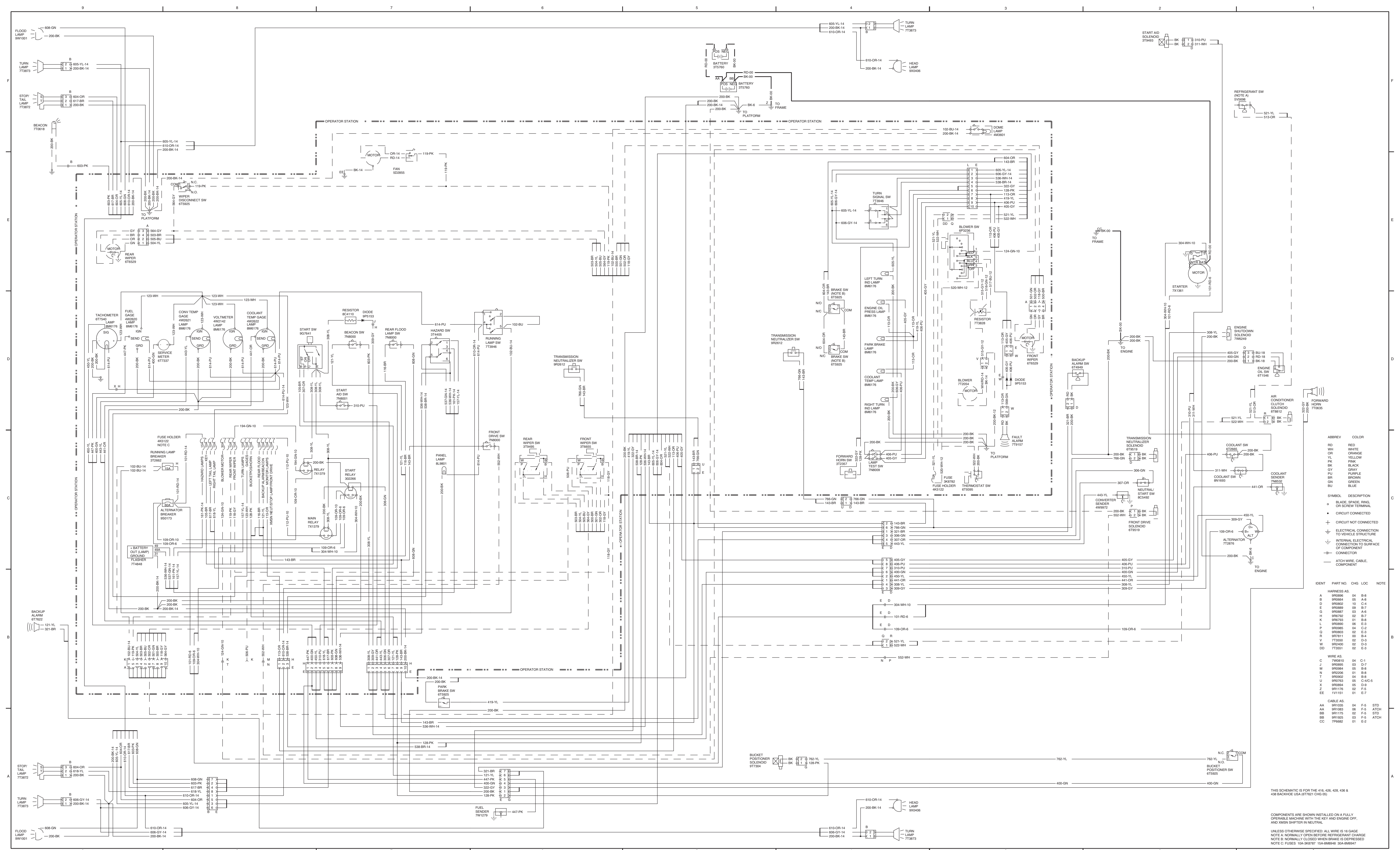
Ident.	Schematic Components	Location	Ident.	Schematic Components	Location
1	Alarm-Backup	B-8	12	Solenoid-Front Drive	C-2
A	Alarm-Fault	C-3	13	Solenoid-Start Aid	F-2
2	Alternator	C-1	14	Solenoid-Transmission Neutralizer	C-2
3	Batteries	F-6	15	Starter	E-2
B	Breaker-Alternator	C-8	16	Switch-Backup Alarm	D-3
B	Breaker-Running Lamp	C-8	A	Switch-Beacon	D-7
A	Flasher	C-8	A	Switch-Blower and Air Conditioner	E-3
B	Fuse-Blow	C-8	17	Switch-Bucket Positioner	A-1
A	Gauge-Coolant Temperature	D-8	18	Switch-Coolant Temperature	C-2
A	Gauge-Coolant Temperature	D-8	19	Switch-Coolant Temperature (Start Aid)	C-1
A	Gauge-Fuel	D-9	20	Switch-Engine Oil Pressure	D-1
A	Gauge-Tachometer	D-9	A	Switch-Forward Horn	C-4
A	Meter-Volt	D-8	A	Switch-Front Drive	C-6
A	Meter-Volt	D-8	A	Switch-Front Wiper	D-7
A	Motor-Blower	D-3	A	Switch-Lamp	C-4
A	Motor-Fan	E-7	21	Switch-Neutral/Start	C-2
A	Motor-Front Wiper	D-3	22	Switch-Parking Brake	B-7
A	Motor-Rear Wiper	E-9	A	Switch-Rear Flood	D-7
B	Relay-Main	C-7	A	Switch-Rear Wiper	C-6
B	Relay-Start	D-7	23	Switch-Refrigerant	F-1
B	Resistor-Alternator Field	D-7	A	Switch-Running Lamp	D-6
A	Resistor-Blower Motor Speed	D-3	A	Switch-Start	D-8
6	Sender-Converter	C-2	A	Switch-Start Aid	C-2
7	Sender-Coolant Temperature	C-1	A	Switch-Thermostat	C-3
8	Sender-Fuel	A-6	A	Switch-Turn Signal	E-4
6	Sender-Tachometer	D-1	A	Switch-Wiper Disconnect	E-8
10	Solenoid-Bucket Positioner	A-4	24	Switches-Brake/Stop Light	D-4
11	Solenoid-Engine Shutdown	D-2	A	Switches-Transmission Neutralizer	D-6/D-4

Connectors	Ident.	Harness And/Or Components	Schematic Location
10 CONTACTS	1	A-900000	B-8
	2	E-900000	B-7
	3	H-900000	E-3
	4	H-900000	B-7
9 CONTACTS	5	E-900000	A-8
	6	H-900000	B-4
	7	E-900000	A-6
	8	E-900000	C-4
8 CONTACTS	9	E-900000	D-3
	10	E-900000	E-9
	11	E-900000	D-1
	12	H-900000	B-8

Part No.	Function	Activate	Deactivate	Normal Condition
8N1693	Engine Coolant Temp. (Start Aid)	37.8 ± 2.8 °C (100 ± 5 °F)	28.7 °C min. (83.5 °F min.)	N.C.
6T1546	Engine Oil Pressure	93.3 ± 2.1 kPa (13.5 ± 0.3 psi)	69.3 ± 1.1 kPa (10.0 ± 0.2 psi)	N.O.
6T2685	Engine Coolant Temperature	107.2 ± 2.2 °C (225 ± 5 °F)	85 °C min. (185 °F min.)	N.O.
6T4949	Backup Alarm (Pressure)	93.3 ± 2.1 kPa (13.5 ± 0.3 psi)	10.0 ± 0.3 psi	N.O.

N.O. = NORMALLY OPEN N.C. = NORMALLY CLOSED

Circuit Number	Color	Description	Circuit Number	Color	Description
Monitoring Circuits (Continued)			Accessory Circuits (Continued)		
424	GY	OPERATOR MON PANEL POWER TRAIN TEMP	524	BU	WINDSHIELD WIPER LEFT (LOW)
425	PK	OPERATOR MON PANEL POWER TRAIN OIL LEVEL	525	GY	WINDSHIELD WIPER LEFT (HIGH)
426	BR	OPERATOR MON PANEL POWER TRAIN OIL FILTER	526	YL	WINDSHIELD WIPER RIGHT (LOW)
427	GN	OPERATOR MON PANEL POWER TRAIN OIL TEMP	527	GN	WINDSHIELD WIPER RIGHT (HIGH)
428	PK	OPERATOR MON PANEL TRANSMISSION OIL TEMP	528	WH	WINDSHIELD WIPER RIGHT (HIGH)
429	YL	OPERATOR MON PANEL BRAKE OIL TEMP	529	BR	WINDSHIELD WIPER LEFT (LOW)
430	BR	OPERATOR MON PANEL BRAKE OIL TEMP	530	BU	WINDSHIELD WIPER LEFT (HIGH)
431	GN	OPERATOR MON PANEL LOW TRANSFER PUMP PRESS	531	WH	FIRE WARNING HORN
432	BR	OPERATOR MON PANEL BRAKE PRESS. (OIL JUMPER)	532	WH	FIRE WARNING LAMP
433	BU	OPERATOR MON PANEL BRAKE PRESS. (OIL JUMPER)	533	GN	HEAT SENSOR/TEST SW
434	BU	OPERATOR MON PANEL POWER TRAIN TEMP JUMPER	534	WH	HAZARD SWITCH TO TURN SWITCH
435	YL	OPERATOR MON PANEL POWER TRAIN TEMP JUMPER	535	BU	HAZARD SWITCH TO TURN SWITCH
436	GN	OPERATOR MON PANEL POWER TRAIN OIL	536	BR	HAZARD INDICATOR
437	BR	OPERATOR MON PANEL FUEL LEVEL TO FUEL	537	BU	TURN SIGNAL INDICATOR LEFT
438	YL	OPERATOR MON PANEL FUEL LEVEL TO FUEL	538	BR	HAZARD INDICATOR
439	YL	LAMP INDICATOR	539	BU	TURN SIGNAL INDICATOR RIGHT
440	BR	AIR PRESSURE GAUGE	540	YL	ACCESSORY 2
441	OR	ENGINE COOLANT TEMP GAUGE	541	GN	TRAILER CONNECTOR (TAIL LAMP)
442	GY	HYDRAULIC SYSTEM TEMP GAUGE	542	BR	HAZARD PRESS. SW. HAZARDON PRESS. SW.
443	YL	POWER TRAIN TEMP GAUGE	543	BU	AUX HYDRAULIC-ROTATE CLOCKWISE
444	BR	CONVERTER OIL TEMP GAUGE (TRACTOR)	544	GN	AUX HYDRAULIC-ROTATE COUNTERCLOCKWISE
445	GN	CON VIRETARDER OIL TEMP GAUGE (SCRAPER)	545	GY	AUX HYDRAULIC-OPEN
446	PK	BRAKE OIL TEMPERATURE GAUGE	546	GN	AUX HYDRAULIC-CLOSE
447	PK	AIR PRESSURE GAUGE	547	OR	AUX HYDRAULIC LEFT DISCONNECT TO SW.
448	BU	FUEL LEVEL GAUGE	548	YL	AUX HYDRAULIC RIGHT DISCONNECT TO SW.
449	YL	SPEEDOMETER SENDER (SIGNAL NO. 1)	549	WH	FOUR WHEEL DRIVE SOLENOID
450	YL	TACHOMETER SENDER (T)	550	OR	FOUR WHEEL DRIVE DISCONNECT TO SW.
451	BR	TACHOMETER SENDER (S)	551	YL	FOUR WHEEL DRIVE DISCONNECT TO SW.
452	PK	TOGGLE CONVERTER	552	WH	FOUR WHEEL DRIVE DISCONNECT TO SW.
453	YL	DIFFERENTIAL LOCK	553	PK	FOUR WHEEL DRIVE DISCONNECT TO SW.
454	GN	TRAILER INDICATOR LAMP	554	YL	FOUR WHEEL DRIVE DISCONNECT TO SW.
455	YL	CONVERTER TEMP SW. TO TIME DELAY	555	WH	DIFFERENTIAL LOCK
456	BR	MONITOR PANEL PTO	556	YL	TRAILER CONNECTOR (RIGHT TURNHAZARD)
457	PK	MONITOR PANEL MONITOR SPEED SENDER	557	GN	TRAILER CONNECTOR (RIGHT TURNHAZARD)
458	PK	MONITOR PANEL MONITOR SPEED SENDER	558	BR	HAZARD PRESS. SW. HAZARDON PRESS. SW.
459	PK	MONITOR PANEL MONITOR SPEED SENDER	559	BU	HAZARD PRESS. SW. HAZARDON PRESS. SW.
460	PK	MONITOR PANEL MONITOR SPEED SENDER	560	BU	HAZARD PRESS. SW. HAZARDON PRESS. SW.
461	PK	MONITOR PANEL MONITOR SPEED SENDER	561	BU	HAZARD PRESS. SW. HAZARDON PRESS. SW.
462	YL	MONITOR PANEL PROGRAM PIN	562	PU	NITROGEN PRESS. SW. FIRE MONITOR
463	YL	MONITOR PANEL PROGRAM PIN	563	PU	NITROGEN PRESS. SW. FIRE MONITOR
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587	YL	MONITOR PANEL PROGRAM PIN	687	PU	NITROGEN PRESS. SW.



THIS SCHEMATIC IS FOR THE 416, 426, 438, 438 & 438 BACKHOE USA (87781 CHG 05)

COMPONENTS ARE SHOWN INSTALLED ON A FULLY OPERABLE MACHINE WITH THE KEY AND ENGINE OFF, AND XDRN SHIFTER IN NEUTRAL.

UNLESS OTHERWISE SPECIFIED: ALL WIRE IS 16 GAUGE
NOTE A: NORMALLY OPEN BEFORE REFRIGERANT CHARGE
NOTE B: NORMALLY CLOSED WHEN BRAKE IS DEPRESSED
NOTE C: FUSES 10A-36787 15A-88948 30A-88947