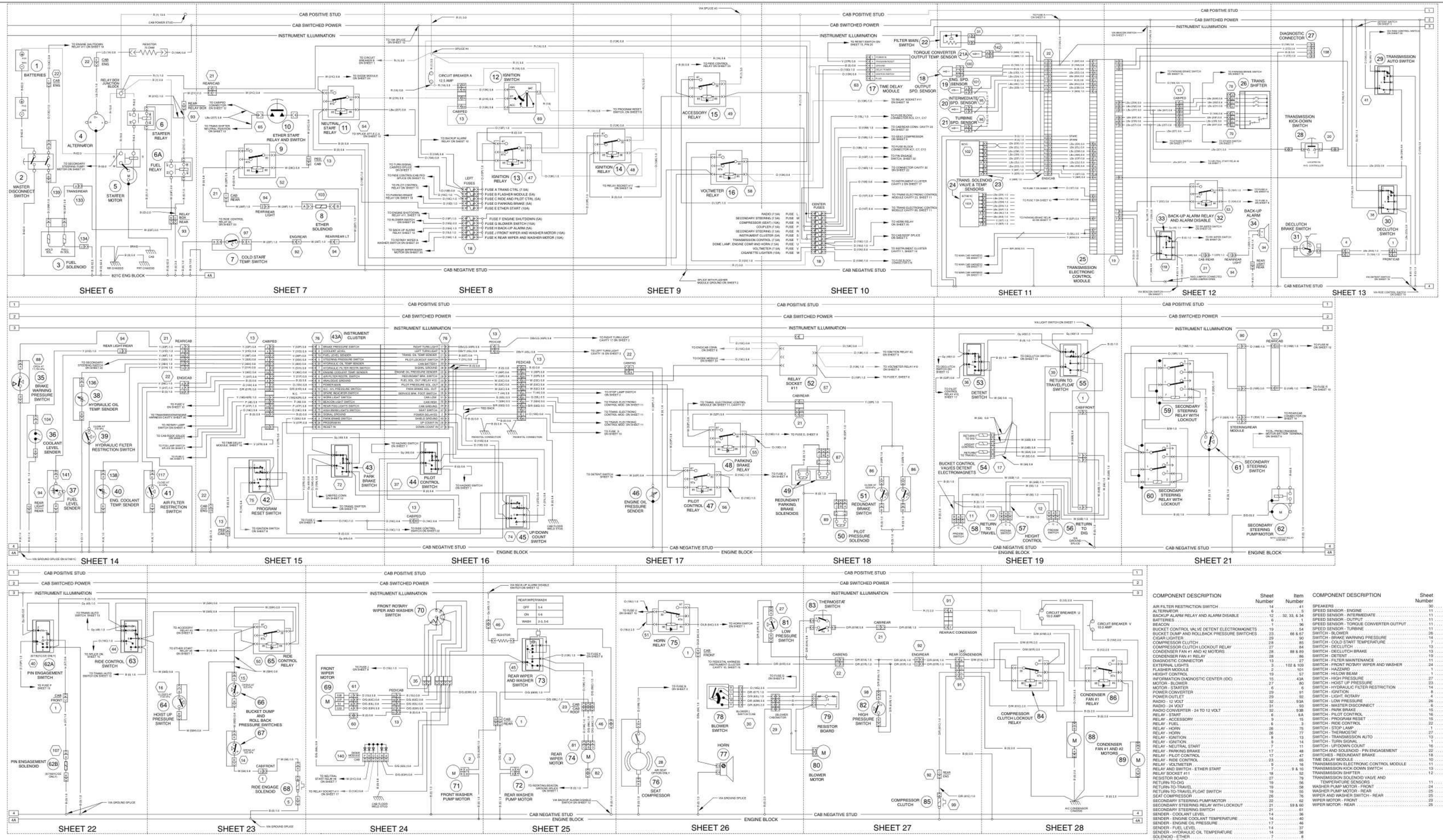
821C
WHEEL LOADER

Service Manual

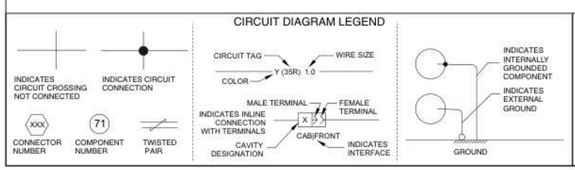
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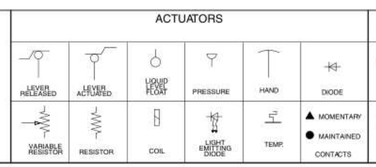
CIRCUIT DIAGRAM LEGEND



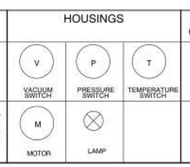
COLOR ABBREVIATIONS

ABBREV	WIRE COLOR	ABBREV	WIRE COLOR
B	BLACK	O	ORANGE
BR	BROWN	O/Be	ORANGE/BLUE
BR/W	BROWN/WHITE	O/G	ORANGE/GREEN
BR/Y	BROWN/YELLOW	O/LB	ORANGE/LIGHT BLUE
DBe	DARK BLUE	O/R	ORANGE/RED
DBr	DARK BROWN	O/W	ORANGE/WHITE
DBr/LG	DARK BROWN/LT GREEN	P	PINK
DBr/Y	DARK BROWN/YELLOW	R	RED
DG	DARK GREEN	T	TAN
Gy	GRAY	V	VIOLET (PURPLE)
LBe	LIGHT BLUE	W	WHITE
LGe	LIGHT GREEN	Y	YELLOW

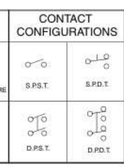
ACTUATORS



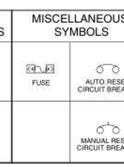
HOUSINGS



CONTACT CONFIGURATIONS



MISCELLANEOUS SYMBOLS



NOTES

1. DIAGRAM SHOWN WITH VEHICLE PARKED, POWER OFF AND CONTROLS IN OFF OR NEUTRAL POSITION.
2. SHEET NUMBERS REFER TO THE NUMBER AT THE BOTTOM CENTER OF EACH DASHED BLOCK.
3. SHEETS 1, 2, 3A, 4, 5, 29, 30, 31, AND 32 (ITEMS 90, CIGAR LIGHTER THROUGH 132, ENGINE COMPARTMENT LAMP) ARE NOT SHOWN ON THIS SCHEMATIC POSTER. SEE SECTION 4002 FOR THESE SHEETS.
4. BUCKET CONTROL VALVES DETENT ELECTROMAGNETS RESISTANCE (S19) OHMS.
5. FUEL LEVEL SENDER (E-F) IS 0-90 OHMS.
6. COOLANT TEMPERATURE SENDER:
   - 66°C 430 OHMS
   - 82°C 206 OHMS
   - 102°C 164 OHMS
7. OIL TEMPERATURE SWITCH CLOSING SETPOINT IS 112°C (259°F).
8. HYDRAULIC FILTER RESTRICTION SWITCH CLOSES AT 310 KPA.
9. AIR FILTER RESTRICTION SWITCH CLOSES AT 6.4 KPA.
10. ENGINE OIL PRESSURE SWITCH OPENS AT 1 BAR.
11. LOW BRAKE PRESSURE SWITCH OPENS AT 11 700 KPA.
12. A/C HIGH PRESSURE SWITCH CLOSES AT 26 BAR (INCREASING PRESSURE).
13. A/C LOW PRESSURE SWITCH CLOSES AT 0.3 BAR (DECREASING PRESSURE).
14. CONTACTS 2 TO 3 OF THERMOSTAT SWITCH CLOSE AT INITIAL TURN OF THE ROTARY SWITCH. CONTACTS 1 TO 2 CLOSE WITH THERMAL SETTING.
15. ENGINE OIL PRESSURE SENDER. REFERENCE RESISTANCE VS. PRESSURE IS:
   - 1 BAR 20 OHMS
   - 3 BAR 52 OHMS
   - 5.5 BAR 90 OHMS
16. FUEL SOLENOID RESISTANCE IS 30 OHMS.

LEGEND

——— INDICATES CONSTANT POWER

——— INDICATES POWER WHEN KEY SWITCH IS IN ON POSITION

821C WHEEL LOADER ELECTRICAL SCHEMATIC

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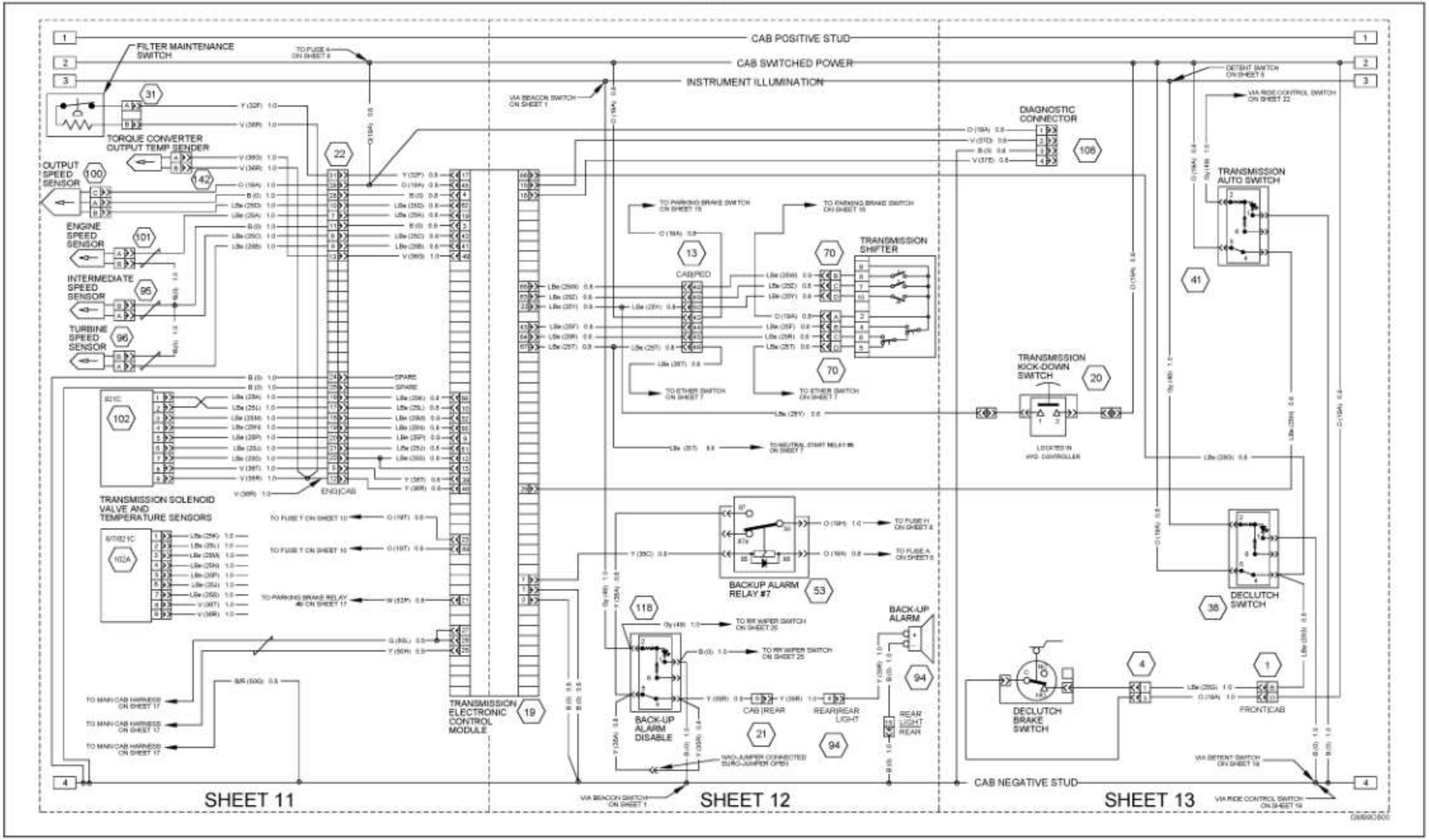
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COMPONENT DESCRIPTION	Sheet Number	Item Number
AIR FILTER RESTRICTION SWITCH	14	41
ALTERNATOR	6	5
BACKUP ALARM RELAY AND ALARM DISABLE	12	32, 33, & 34
BATTERIES	6	1
BEACON	1	90
BUCKET CONTROL VALVE DETENT ELECTROMAGNETS	19	54
BUCKET DUMP AND ROLLBACK PRESSURE SWITCHES	23	66 & 67
CIGAR LIGHTER	29	90
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COMPRESSOR CLUTCH LOCKOUT RELAY	27	84
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MOTOR - STARTER	6	6
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RADIO - 24 VOLT	31	93
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RELAY - FUEL	6	3
RELAY - HORN	26	75
RELAY - HORN	26	77
RELAY - IGNITION	9	13
RELAY - IGNITION	9	14
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SPEED SENSOR - INTERMEDIATE	11	20
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WIPER MOTOR - FRONT	23	69
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TRANSMISSION ELECTRICAL SCHEMATIC

FIGURE 11



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