CASE

PROFESSIONAL PARTNER

REPAIR MANUAL

SKID STEER COMPACT TRACK LOADER

430
440
440CT

(Mechanical and Pilot Control Machines-H and ISO Pattern)

87578830 NA

Replaces 87364091 NA

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Issued 03-2006

MidWestTech | Case 430, 440, 440CT H and ISO Compact Skid Steer Loader Service Manual | Publication 87578830

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430/440 SKID STEER AND 440CT COMPACT TRACK LOADER
Repair Manual (Mechanical and Pilot Control Machines)
Bur 87578830

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45 Backup Alarm Switch (Left)

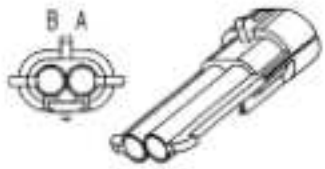
Check Points	Reading	Possible Cause of Bad Readings
NOTE: *Place the Skid Steer Loader on acceptable supports so that all four wheels are off the ground. Disconnect the electrical connector from backup alarm switch (Left). Turn the ignition switch to the RUN position.*		
Check between the switch terminal for wire 895A to ground	Approximately 12 volts	Check the circuit between backup alarm switch terminal 42 and the 10 ampere fuse in the primary fuse block (11) Frame 2. Also check the 10 ampere fuse and the primary fuse block (11) Frame 2.
Check between opposite ends of wire 895B.	Continuity	Bad circuit between backup alarm switches.
Check between the terminals of each individual backup alarm switch.	Open	Bad backup alarm switch (Left).
Start the engine and run at low idle. Have another person move the control levers to the REVERSE position. Check between the terminals of each untidily backup alarm switch.	Continuity	Bad backup alarm switch (Left).

46 Backup Alarm Switch (Right)

Check Points	Reading	Possible Cause of Bad Readings
NOTE: *Place the Skid Steer Loader on acceptable supports so that all four wheels are off the ground. Disconnect the electrical connector from backup alarm switch (Right). Turn the ignition switch to the RUN position.*		
Check between the switch terminal for wire 895A to ground	Approximately 12 volts	Check the circuit between backup alarm switch terminal 42 and the 10 ampere fuse in the primary fuse block (11) Frame 2. Also check the 10 ampere fuse and the primary fuse block (11) Frame 2.
Check between opposite ends of wire 895B.	Continuity	Bad circuit between backup alarm switches.
Check between the terminals of each individual backup alarm switch.	Open	Bad backup alarm switch (Right).
Start the engine and run at low idle. Have another person move the control levers to the REVERSE position. Check between the terminals of each individual backup alarm switch.	Continuity	Bad backup alarm switch (Right).

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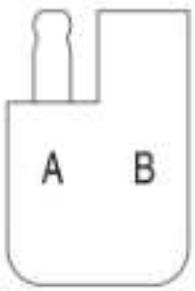
Connector 123



253294A1

Cavity	Circuit ID	Description
A	545B (T) 1.0	To connector 121 pin 2
B	546B (T) 1.0	To connector 122 pin 2

Connector 124

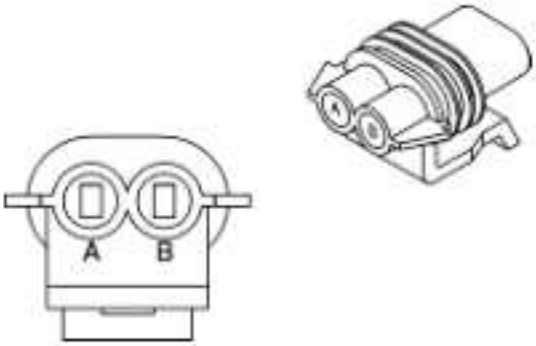


CNH_STYLE-24

Cavity	Circuit ID	Description
A	178DE (B) 1.0	From connector 12 pin 1
B	535D (T) 1.0	From connector 81B pin 2
B	535C (T) 1.0	From connector 120 pin A

CONNECTORS SCHEMATIC FRAME 12

Connector 77

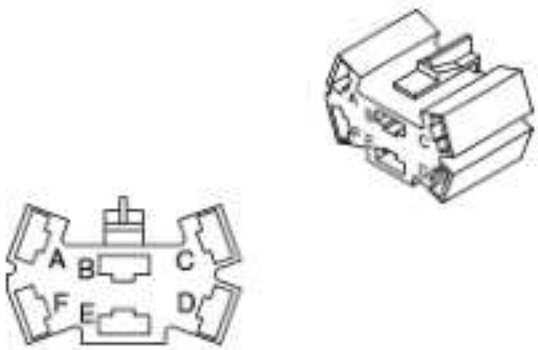


256340A1

Cavity	Circuit ID	Description
B	548B (T) 1.0	To ride control solenoid

CONNECTORS SCHEMATIC FRAME 13

Connector 67



245781C1

Cavity	Circuit ID	Description
A	178AJ (B) 0.8	To ground
E	540F (R) 1.0	To connector 70 pin A
E	540G (R) 1.0	From options fuse block T8
D	766A (P) 1.0	To connector 68 pin B

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CONTROLS ADJUSTMENT PROCEDURE - LOADER FUNCTIONS AND NEUTRAL POSITION

STEP 1



BD058005

1. MEASUREMENT 735 ± 10 MM

Center of the seat bar must be 735 ± 10 mm from the bottom surface of the front ROPS cross member before making handle position adjustments. If measurement is not within the specification, adjust the seat bar to the specifications. See the seat bar height adjustment procedure.

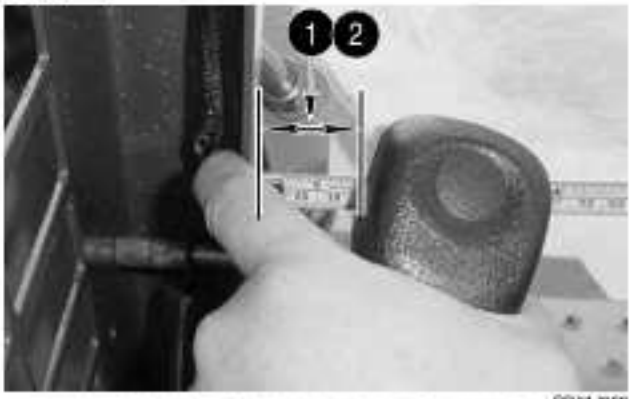
STEP 2

Stroke the handles to the Full Reverse position. In any position the handles must not contact the seat bar. Set the left hand control at 6 to 20 mm clearance to the seat bar with the handle in the full reverse stroke and in the float position.

STEP 3

NEUTRAL: The front of the top of the handles must be inline with each other by 6 mm. Adjust the Right Handle position relative to the Left handle.

STEP 4



BD01J006

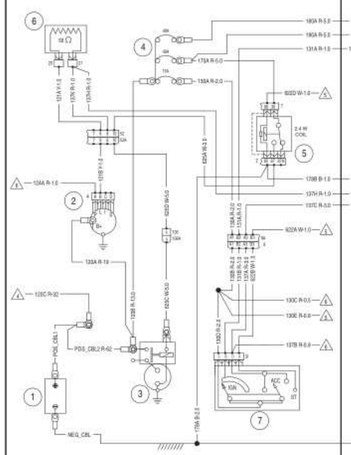
1. DIMENSION FOR STANDARD CONTROL HANDLE (25 TO 40 MM)
2. DIMENSION FOR DELUXE CONTROL HANDLE (LARGE HEAD) (15 TO 30 MM)

Stroke the both control handles to the Full Forward position. With the control handles in any position and hands on the control handles, the control handles or hands must not contact the front ROPS post or any front door component (if equipped). The clearance between the ROPS post and the standard control handle should be 25 to 40 mm. The clearance between the ROPS post and the deluxe (large head) control handle should be 55 to 30 mm.

If the machine is equipped with side windows there should be 25 mm clearance between the control handles and the side windows when the control handles are in the locked down position with the seat bar in the operating (down) position.

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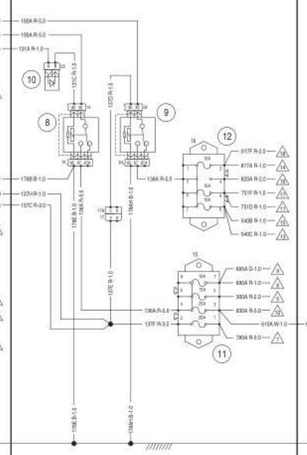
STARTING SYSTEM



FRAME 1

BC06N857-01A

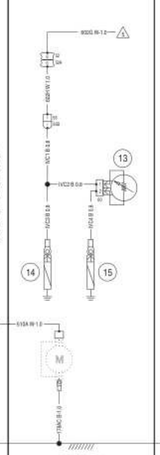
POWER DISTRIBUTION



FRAME 2

BC06N857-02A

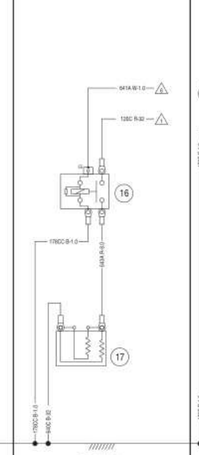
FUEL SUPPLY SYSTEM



FRAME 3

BC06N857-03A

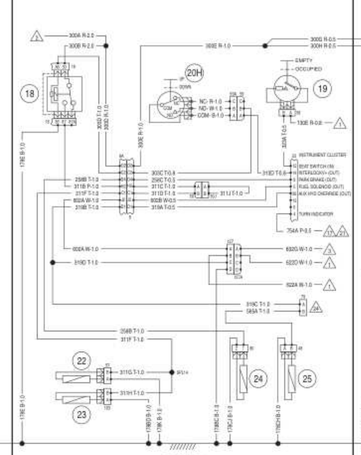
ENGINE PRE-HEAT SYSTEM



FRAME 4

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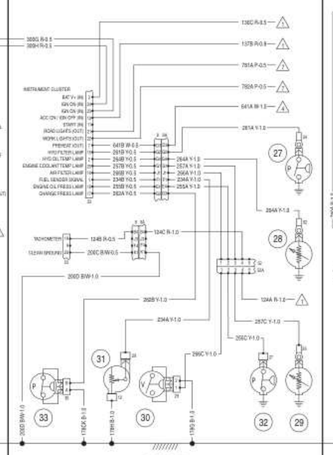
SAFETY INTERLOCK SYSTEM



FRAME 5

BC06N857-05A

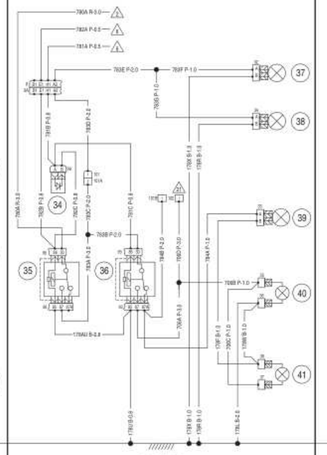
INSTRUMENT CLUSTER



FRAME 6

BC06N857-05A

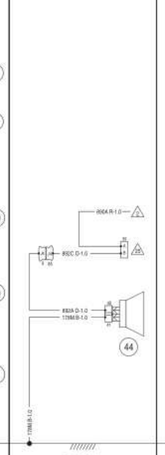
STANDARD LAMPS



FRAME 7

BC06N857-07A

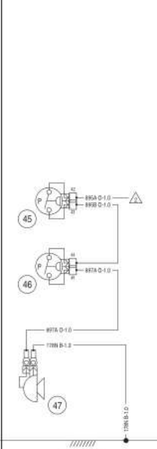
HORN (OPTIONAL)



FRAME 8

BC06N857-08A

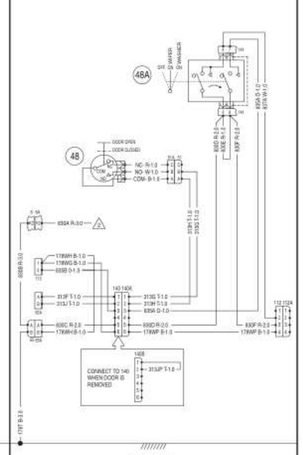
BACK-UP ALARM (OPTIONAL)



FRAME 9

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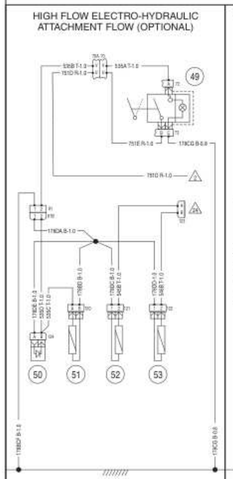
FRONT DOOR (OPTIONAL)



FRAME 10

BC06N857-10A

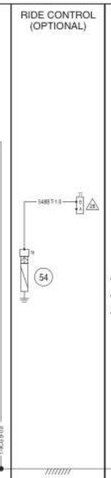
HIGH FLOW ELECTRO-HYDRAULIC ATTACHMENT FLOW (OPTIONAL)



FRAME 11

BC06N857-11A

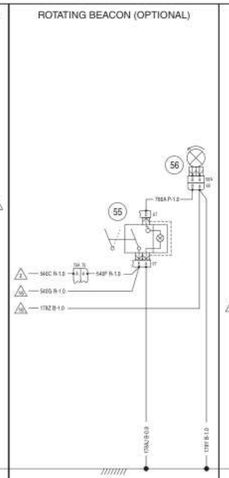
RIDE CONTROL (OPTIONAL)



FRAME 12

BC06N857-12A

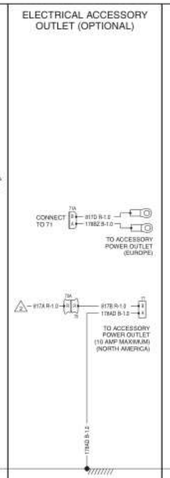
ROTATING BEACON (OPTIONAL)



FRAME 13

BC06N857-13A

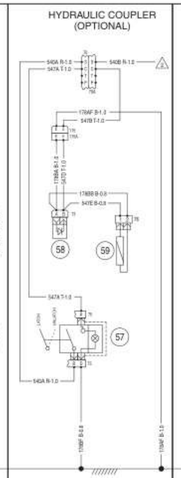
ELECTRICAL ACCESSORY OUTLET (OPTIONAL)



FRAME 14

BC06N857-14A

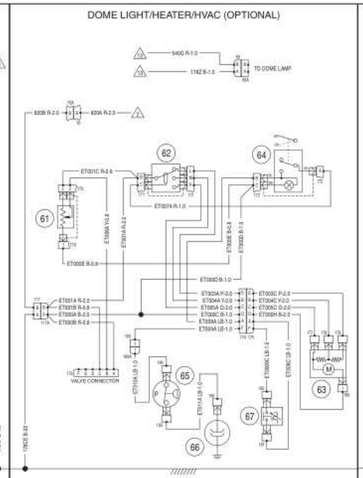
HYDRAULIC COUPLER (OPTIONAL)



FRAME 15

BC06N857-15A

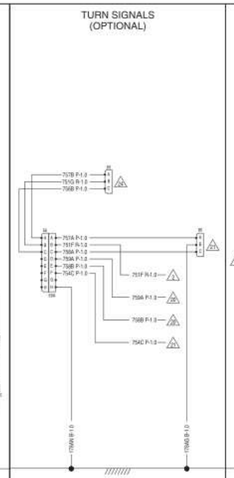
DOME LIGHT/HEATER/HVAC (OPTIONAL)



FRAME 16

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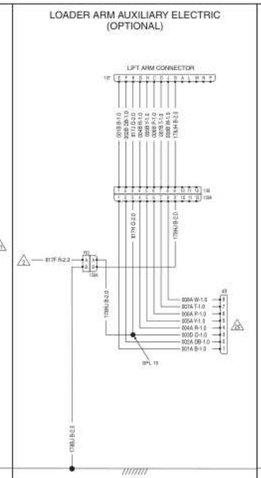
TURN SIGNALS (OPTIONAL)



FRAME 17

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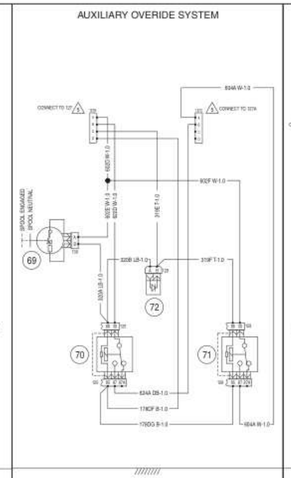
LOADER ARM AUXILIARY ELECTRIC (OPTIONAL)



FRAME 18

BC06N857-18A

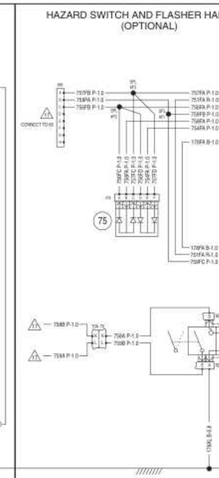
AUXILIARY OVERIDE SYSTEM



FRAME 19

BC06N857-19A

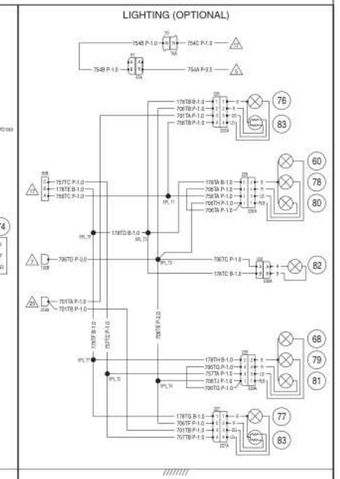
HAZARD SWITCH AND FLASHER HARNESS (OPTIONAL)



FRAME 20

BC06N857-20A

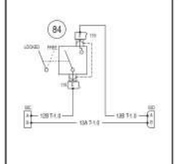
LIGHTING (OPTIONAL)



FRAME 21

BC06N857-21A

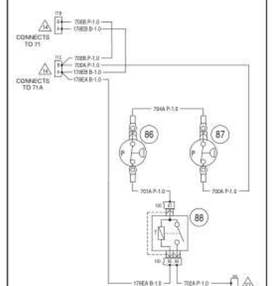
LOADER LOCK OUT (OPTIONAL)



FRAME 22

BC06N857-22A

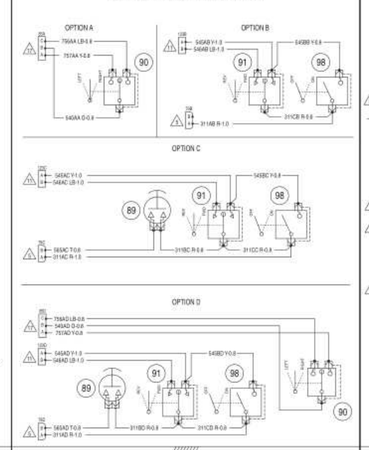
EURO ON ROAD BRAKE LIGHTS



FRAME 23

BC06N857-23A

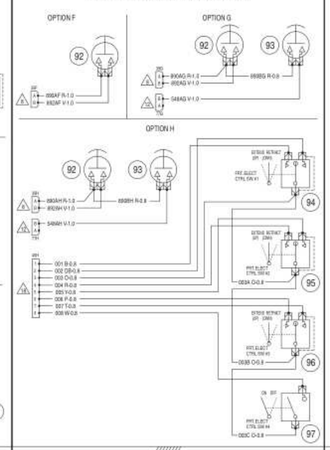
LEFT-HAND HANDLE (OPTIONS)



FRAME 24

BC06N857-24A

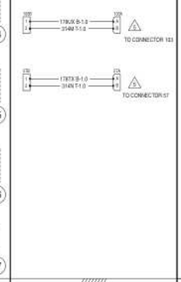
RIGHT-HAND HANDLE (OPTIONS)



FRAME 25

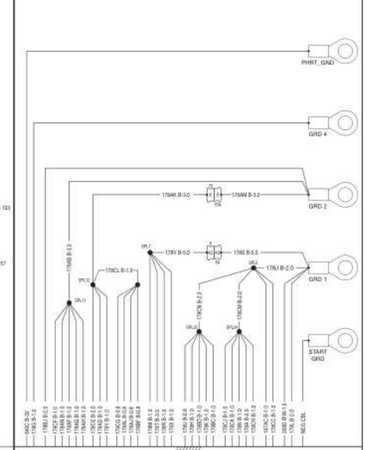
BC06N857-25A

PILOT HYDRAULIC CONTROL ADAPTERS (OPTIONAL)



FRAME 26

BC06N857-26A



FRAME 27

BC06N857-27A

LEGEND

1. BATTERY
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4. CIRCUIT BREAKER
5. STARTER RELAY
6. RESISTOR (50 OHMS)
7. IGNITION SWITCH
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9. OPTIONS POWER RELAY
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17. GRID HEATER
18. INTERLOCK RELAY
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23. LOADER VALVE SOLENOID
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43. NOT USED
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46. BACKUP ALARM SWITCH (RIGHT)
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52. FORWARD SOLENOID
53. REVERSE SOLENOID
54. RIDE CONTROL SOLENOID
55. ROTATING BEACON SWITCH
56. ROTATING BEACON
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63. BLOWER MOTOR
64. AIR CONDITIONER SWITCH
65. AIR CONDITIONER PRESSURE SWITCH
66. AIR CONDITIONER COMPRESSOR CLUTCH
67. THERMOSTAT
68. RIGHT-HAND FRONT HEADLAMP
69. AUXILIARY HYDRAULIC NEUTRAL SPOOL SWITCH
70. STARTING INTERLOCK RELAY
71. FUEL SOLENOID RELAY
72. DIODE
73. HAZARD SWITCH
74. FLASHER MODULE
75. DIODE PACK
76. LEFT REAR TURN LIGHT
77. RIGHT REAR TURN LIGHT
78. LEFT FRONT TURN LIGHT
79. RIGHT FRONT TURN LIGHT
80. LEFT FRONT POSITION LIGHT
81. RIGHT FRONT POSITION LIGHT
82. LICENSE PLATE LIGHT
83. RESISTOR
84. LOADER LOCKOUT SWITCH (OPTIONAL)
85. NOT USED
86. LEFT BRAKE LIGHT SWITCH (EURO)
87. RIGHT BRAKE LIGHT SWITCH (EURO)
88. BRAKE LIGHT TIMER RELAY (EURO)
89. TWO (2) SPEED SWITCH
90. TURN SIGNAL SWITCH
91. ATTACHMENT HYDRAULIC SWITCH
92. HORN SWITCH
93. RIDE CONTROL SWITCH
94. FRONT ELECTRIC CONTROL SWITCH No. 1
95. FRONT ELECTRIC CONTROL SWITCH No. 2
96. FRONT ELECTRIC CONTROL SWITCH No. 3
97. FRONT ELECTRIC CONTROL SWITCH No. 4
98. ATTACHMENT HYDRAULIC FORWARD FLOW "ON" SWITCH

CIRCUIT DIAGRAM LEGEND

SHOWS CIRCUIT CROSSING NOT CONNECTED

SHOWS CIRCUIT CONNECTED

54 COMPONENT NUMBER

30 WIRE TAG NUMBER

8 CONNECTOR NUMBER

NUMBERS REFER TO THE FRAME NUMBER AT THE BOTTOM CENTER OF EACH FRAME.

MALE TERMINAL FEMALE TERMINAL

INDICATES EXTERNAL GROUND

GROUND

INDICATES INTERNALLY GROUNDED COMPONENT

WIRE IDENTIFICATION

702A P-1.0

WIRE NUMBER — WIRE COLOR — WIRE SIZE

B .. BLACK	LB .. LIGHT BLUE	P .. PURPLE	
B/W BLACK/WHITE	O .. ORANGE	R .. RED	

NOTES

ELECTRICAL SCHEMATIC
430, 440 SKID STEER and 440CT TRACK LOADER

Additional copies of this Hydraulic and Electrical Schematic can be ordered through Technical Publications Distribution System.
The part number is 5-5350

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