W18B, W20C
Loaders

Service Manual

8-41430

CASE CONSTRUCTION

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ELECTRICAL SYSTEM COMPONENTS

A. Right front flood lamp (optional)
B. Right driving lamp
C. Connects to magnetic detent on lift spool
D. Connects to magnetic detent on bucket spool
E. Ground connection at loader control valve
F. Clutch pressure warning lamp
G. Engine oil pressure lamp
H. Alternator warning lamp
I. Brake warning lamp
J. Connects to left side of instrument cluster.
K. Water temperature gauge
L. Fuel gauge
M. Air pressure gauge
N. Torque converter temperature gauge
O. Connects to right side of instrument cluster
P. Instrument cluster lamps
Q. 5 ampere circuit breaker
R. 5 ampere circuit breaker
S. Oil filter warning lamp
T. 40 ohm resistor
U. Cold start button (optional)
V. Connects to key switch
W. Key switch
X. 15 ohm resistor, 12 watt
Y. Connects to lamp switch
Z. Lamp switch
AA. 39 ohm resistor, 12 watt (if used)
BB. Instrument panel lamps (if used)
CC. Warning buzzer switch
DD. Warning buzzer for low air pressure
EE. Parking brake switch
FF. 40 ohm resistor
GG. Connects to cab or canopy wiring harness
HH. Turn signal switch (optional)
II. Diode
JJ. 10 ohm resistor, 12 watt
KK. Stop lamp switch
LL. Capacitor, 2000 MFD at 50 volts (optional)
MM. Relay for automatic auxiliary steering (optional)
NN. Socket for relay (optional)
OO. 47 ohm resistor 2 watt (optional)
PP. 390 ohm resistor, 2 watt (optional)
QQ. Flow switch for automatic auxiliary steering (optional)
RR. Backup alarm switch (optional)
SS. Neutral start switch
TT. Clutch pressure switch
UU. 40 ohm resistor
VV. Temperature switch for the torque converter
WW. Air pressure sender
XX. Water Temperature sender
YY. Ether injection valve (optional)
ZZ. Starter magnetic switch
AAA. Cab or canopy magnetic switch
BBB. 30 ampere circuit breaker
CCC. 30 ampere circuit breaker
DDD. Electric fuel pump
EEE. Fuel level sender
FFF. Rear wiring harness
GGG. Air conditioning compressor (optional)
HHH. Auxiliary steering motor and pump (optional)
III. 40 ohm resistor
JJJ. 40 ampere alternator
KKK. Oil pressure sender (optional)
LLL. Oil pressure switch
MMM. 40 ohm resistor
NNN. Starter
OOO. Steering oil filter
PPP. Left rear flood lamp
QQQ. Left stop and tail lamp
RRR. Batteries
SSS. Backup alarm (optional)
TTT. 65 ampere alternator
UUU. Relay (optional)
VVV. Right rear flood lamp (optional)
WWW. Right stop and tail lamp (optional)
XXX. Ground connection at the mounting bolt for the relay socket (optional)
YYY. Connector for auxiliary steering (optional)
ZZZ. Wiring harness for auxiliary steering (optional)
AAAA. Connects to optional flood lamps at cab or canopy
BBBB. Automatic auxiliary steering before PIN 9152075. See page 4002-26.
CCCC. Front wiring harness
DDDD. Hydraulic oil filter
EEEE. Left front flood lamp (optional)
FFFF. Left driving lamp
GGGG. Buzzer and indicator lamp for auxiliary steering (optional)
HHHH. Voltmeter (optional)
IIII. Gauge Lamp (optional)
JJJJ. Engine oil pressure gauge (optional)
KKKK. Instrument cluster
LLLL. Automatic auxiliary steering PIN 9152075 and after. See page 4002-29.
MMMM. 50 ohm resistor, 25 watt
NNNN. Diode

ELECTRICAL SYSTEM CIRCUITS

NOTE: *The numbers on the harness plugs are for identification of the terminals only. These numbers are not the same as the numbers for the electrical system circuits.*

WIRE NO.	COLOR	FROM	TO
1	Dark green	Front flood lamp (A)	Lamp switch (Y)
2	Pink	Front driving lamp (B)	Lamp switch (Y)
3	Orange-white	Connectors for magnetic detents (C and D)	5 ampere circuit breaker (R)
4	Brown-white	Connector for magnetic detent (C)	Optional bucket height control switch (see page 4003-7)
5	Blue-white	Connector for magnetic detent (D)	Optional return-to-dig switch (see page 4003-7)
6	Black	Ground connection (E)	Clutch pressure switch (TT)
7	Black	Ground connection (E)	Ground at starter magnetic switch (ZZ)
8	Black	Ground connection (E)	Connector at left side of instrument cluster (J)
9	Black	Ground connection (E)	Connector at right side of instrument cluster (O)
10	Gray-white	Hydraulic oil filter (DDDD)	Oil filter warning lamp (S)
11	Gray-white	Hydraulic oil filter (DDDD)	Steering oil filter (OOO)
12	Dark green	Front flood lamp (EEEE)	Lamp switch (Y)
13	Pink	Front driving lamp (FFFF)	Lamp switch (Y)
14	Gray	Connector at instrument cluster (J)	Resistor (X)
15	Red-green	Connector at instrument cluster (J)	Air pressure sender (WW)
16	Yellow-red	Connector at instrument cluster (J)	Temperature switch (VV)
17	Purple	Connector at instrument cluster (J)	Magnetic switch (AAA)
18	White-red	Connector at instrument cluster (J)	40 ohm resistor (III)
19	Brown-red	Connector at instrument cluster (J)	40 ohm resistor (FF)
20	Purple	Connector at instrument cluster (J)	5 ampere circuit breaker (Q)
21	Purple	Connector at instrument cluster (J)	Voltmeter (HHHH)
22	Purple	Connects between pins at connector for instrument cluster (J)	
23	Black-white	Oil pressure gauge (JJJJ)	Oil pressure sender (KKK)
24	White-black	Buzzer and indicator lamp for auxiliary steering (GGGG)	Relay socket (NN)
25	Black	Buzzer and indicator lamp for auxiliary steering (GGGG)	Ground connection (XXX)
26	Purple	Voltmeter (HHHH)	Oil pressure gauge (JJJJ)
27	Gray-red	Gauge lamps (IIII)	15 ohm resistor (X)
28	Purple	Connector for instrument cluster (O)	5 ampere circuit breaker (Q)
29	Purple	Connects between pins at connector for instrument cluster (O)	
30	Orange-green	Connector for instrument cluster (O)	40 ohm resistor (UU)
31	Black-white	Connector for instrument cluster (O)	40 ohm resistor (MMM)
32	Purple	Connector for instrument cluster (O)	Warning buzzer switch (CC)
33	Light blue-yellow	Connector for instrument cluster (O)	Water temperature switch (XX)
34	Tan-black	Connector for instrument cluster (O)	Fuel level sender (EEE)
35	Purple	5 ampere circuit breaker (R)	Turn signal switch (HH)
36	Orange-black	5 ampere circuit breaker (R)	Oil filter warning lamp (S)
37	Orange-black	5 ampere circuit breaker (Q)	Connector for auxiliary steering (YYY)
38	Black-white	Connector for auxiliary steering (YYY)	Black lead at flow switch (QQ) and the socket for the relay (NN)
39	Orange-white	Socket for relay (NN)	Orange lead at flow switch (QQ)
40	Red-white	Socket for relay (NN)	Red lead at flow switch (QQ)
41	Black	Socket for relay (NN)	Ground connection (XXX)

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