CASE

# REPAIR MANUAL

# CRAWLER

# 650K, 750K, 850K

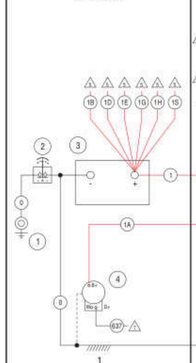
6-47050

Issued Dec 02

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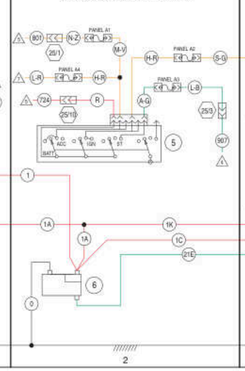
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CHARGING



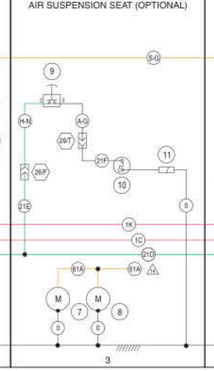
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CRANKING AND KEYSWITCH



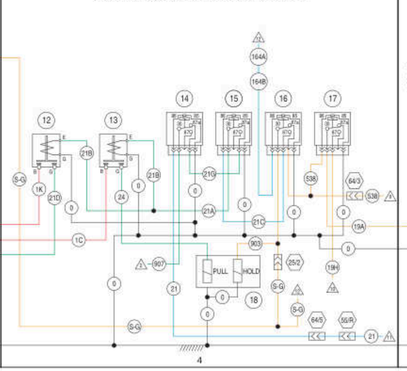
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ETHER START, ROPS HEATER AND AIR SUSPENSION SEAT (OPTIONAL)



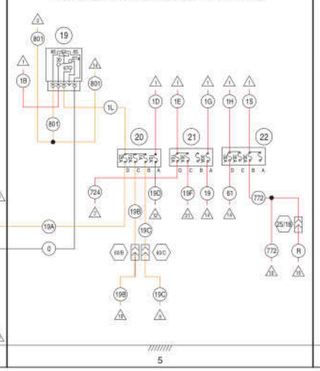
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START RELAYS AND FUEL SHUTOFF SOLENOID



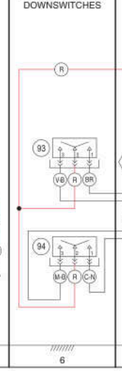
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FUSE BLOCKS AND MICRO CONTROLLER RELAY



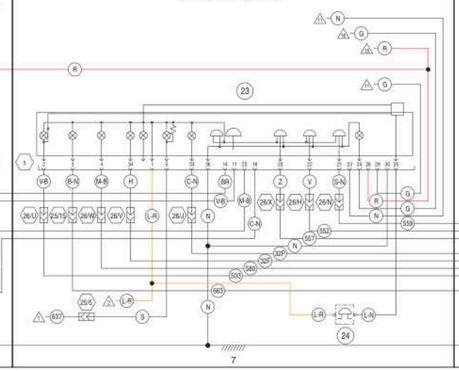
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MENU/SERVICE UP/ DOWNSWITCHES



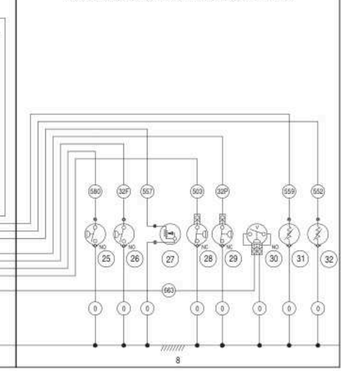
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INSTRUMENT CLUSTER



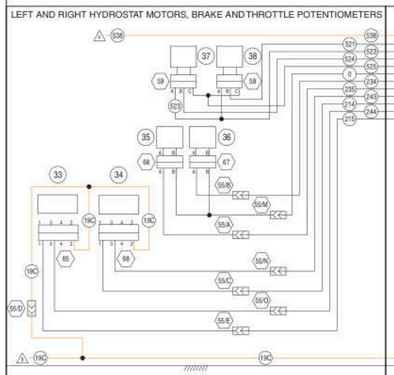
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INSTRUMENT CLUSTER SENDERS AND SWITCHES



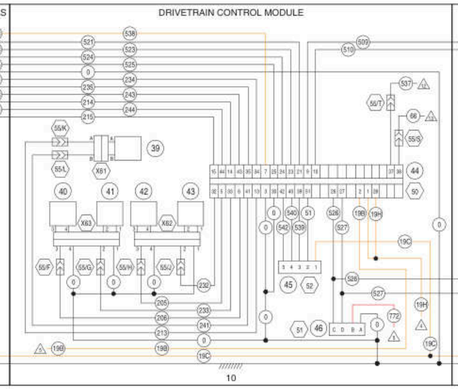
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LEFT AND RIGHT HYDROSTAT MOTORS, BRAKE AND THROTTLE POTENTIOMETERS



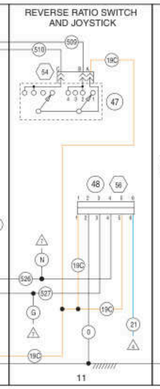
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DRIVETRAIN CONTROL MODULE



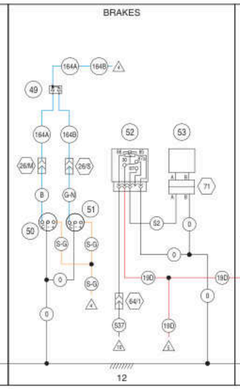
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REVERSE RATIO SWITCH AND JOYSTICK



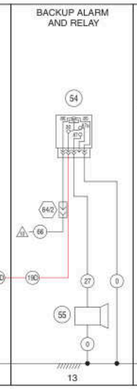
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BRAKES



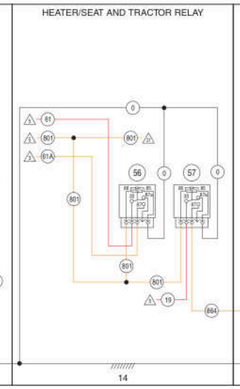
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BACKUP ALARM AND RELAY



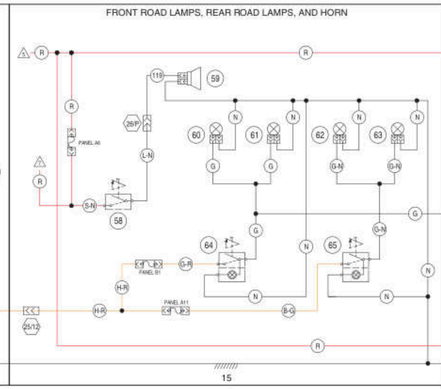
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HEATER/SEAT AND TRACTOR RELAY



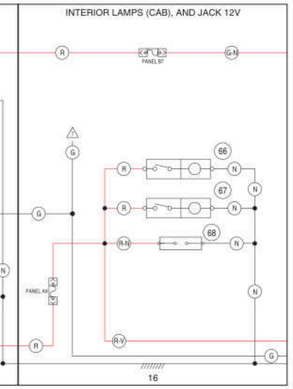
14

FRONT ROAD LAMPS, REAR ROAD LAMPS, AND HORN



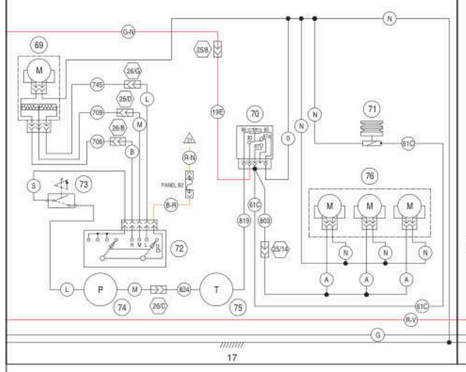
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INTERIOR LAMPS (CAB), AND JACK 12V



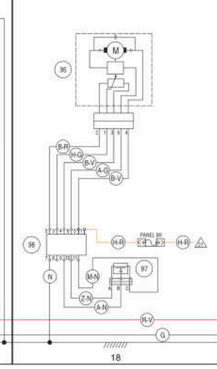
16

BLOWERS, AIR CONDITIONING AND AC RELAY (CAB)



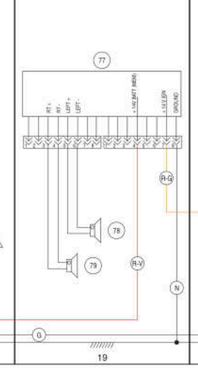
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HEATER CONTROL



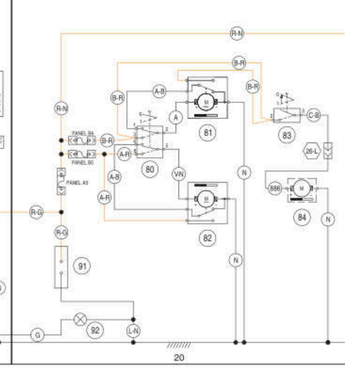
18

RADIO (OPTIONAL)



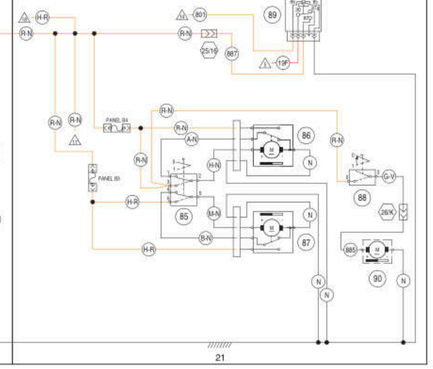
19

FRONT AND REAR WIPER AND WASHER, LIGHTER



20

DOOR WIPER AND WASHER, RELAY (CAB)

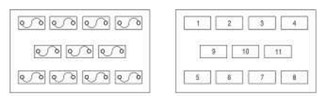


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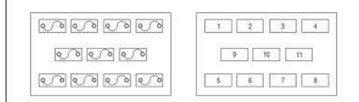
## COMPONENTS

1. GROUND
2. MASTER DISCONNECT SWITCH
3. BATTERY
4. ALTERNATOR
5. IGNITION SWITCH
6. STARTER
7. ROPS HEATER
8. AIR SUSPENSION SEAT
9. ETHER START BUTTON
10. ETHER START THERMO SWITCH
11. ETHER INJECTION SOLENOID
12. STARTER RELAY 100 AMP
13. INJECTION PUMP RELAY 100 AMP
14. START IGNITION RELAY
15. HANDLE NEUTRAL OK RELAY
16. NEUTRAL OK RELAY
17. SAFETY RELAY
18. FUEL SHUTOFF SOLENOID
19. MICROCONTROLLER RELAY
20. MICROCONTROLLER FUSE BLOCK
21. MAIN FUSE BLOCK
22. ACCESSORY FUSE BLOCK
23. INSTRUMENT CLUSTER
24. ENGINE OIL AND COOLANT TEMP ALARM
25. HYDRAULIC FILTER RESTRICTION SWITCH
26. HYDROSTAT FILTER RESTRICTION SWITCH
27. FUEL LEVEL SENDER
28. OIL PRESSURE SWITCH
29. TRANSMISSION CHARGE PRESSURE
30. AIR FILTER RESTRICTION SWITCH
31. TRANSMISSION TEMP SENDER
32. ENGINE COOLANT TEMP SENDER
33. SPEED SENSOR RIGHT MOTOR
34. SPEED SENSOR LEFT MOTOR
35. RIGHT MOTOR SOLENOID
36. LEFT MOTOR SOLENOID
37. THROTTLE POTENTIOMETER
38. BRAKE POTENTIOMETER
39. ENGINE SPEED PICKUP
40. LEFT SOLENOID REAR PUMP
41. RIGHT SOLENOID REAR PUMP
42. LEFT SOLENOID FRONT PUMP
43. RIGHT SOLENOID FRONT PUMP
44. DRIVE TRAIN CONTROL MODULE
45. SERIAL COMMUNICATION PORT
46. DIGITAL
47. REVERSE RATIO SWITCH
48. JOY STICK
49. DIODES
50. PROXIMITY SWITCH
51. PROXIMITY SWITCH
52. BRAKE RELAY
53. BRAKE SOLENOID
54. BACKUP ALARM RELAY
55. BACKUP ALARM
56. HEATER/SEAT RELAY
57. TRACTOR RELAY
58. HORN PUSH BUTTON SWITCH
59. HORN
60. FRONT FLOODLIGHT
61. FRONT FLOODLIGHT
62. REAR FLOODLIGHT
63. REAR FLOODLIGHT
64. FRONT FLOODLIGHT AND MONITOR LIGHT SWITCH
65. REAR FLOODLIGHT SWITCH
66. CAB INTERIOR LAMP
67. CAB INTERIOR LAMP
68. 12 V JACK
69. THREE SPEED FAN
70. AC RELAY
71. AC CLUTCH ON ENGINE
72. BLOWER SWITCH
73. AC SWITCH
74. PRESSURE SWITCH
75. THERMOSTAT SWITCH
76. CONDENSER FANS
77. RADIO
78. LEFT SPEAKER
79. RIGHT SPEAKER
80. FRONT AND REAR WIPER SWITCH
81. FRONT WINDSHIELD WIPER MOTOR
82. REAR WINDSHIELD WIPER MOTOR
83. FRONT AND REAR WINDSHIELD WASHER SWITCH
84. FRONT AND REAR WINDSHIELD WASHER PUMP
85. DOOR WIPER SWITCH
86. LEFT HAND DOOR WIPER MOTOR
87. RIGHT HAND DOOR WIPER MOTOR
88. DOOR WINDSHIELD WASHER PUMP SWITCH
89. CAB RELAY
90. DOOR WINDSHIELD WASHER PUMP
91. LIGHTER
92. LAMP
93. DISPLAY/SERVICE SWITCH
94. UP/DOWN SWITCH
95. HEATER CONTROL VALVE
96. HEATER CONTROL MODULE
97. TEMPERATURE CONTROL

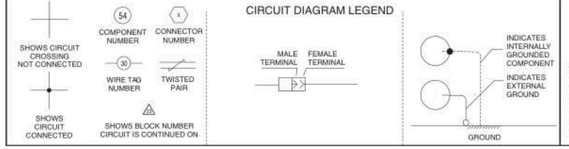
FUSE PANEL A



FUSE PANEL B



## CIRCUIT DIAGRAM LEGEND

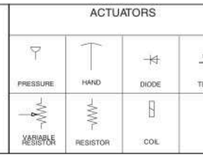



## WIRE IDENTIFICATION

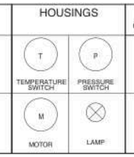
Y (35R) 1.0 — WIRE COLOR, WIRE NUMBER, WIRE SIZE

| ABBREV | WIRE COLOR | ABBREV | WIRE COLOR |
|---|---|---|---|
| A | LIGHT BLUE | N | BLACK |
| B | WHITE | R | RED |
| C | ORANGE | S | PINK |
| G | YELLOW | V | GREEN |
| H | GREY | Z | PURPLE |
| L | BLUE | | |
| M | BROWN | | |

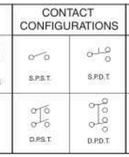
## ACTUATORS



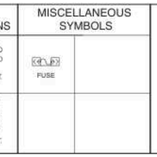

## HOUSINGS




## CONTACT CONFIGURATIONS




## MISCELLANEOUS SYMBOLS




## NOTES

1. ⚠ NUMBERS REFER TO THE NUMBER AT THE BOTTOM CENTER OF EACH BLOCK.
2. FUSES DRAWN AS INLINE ARE LOCATED IN FUSE PANEL A OR FUSE PANEL B. THESE PANELS ARE LOCATED ON THE LEFT SIDE OF THE DASH.
3. (X) IDENTIFIES THE X CONNECTOR AND PIN.

## LEGEND

- INDICATES CONSTANT POWER WITH MASTER SWITCH ON
- INDICATES POWER WHEN KEY SWITCH IS IN ON POSITION
- INDICATES MOMENTARY POWER WHEN KEY SWITCH IS IN START POSITION
- FNR JOYSTICK IN NEUTRAL, PARKING BRAKES APPLIED

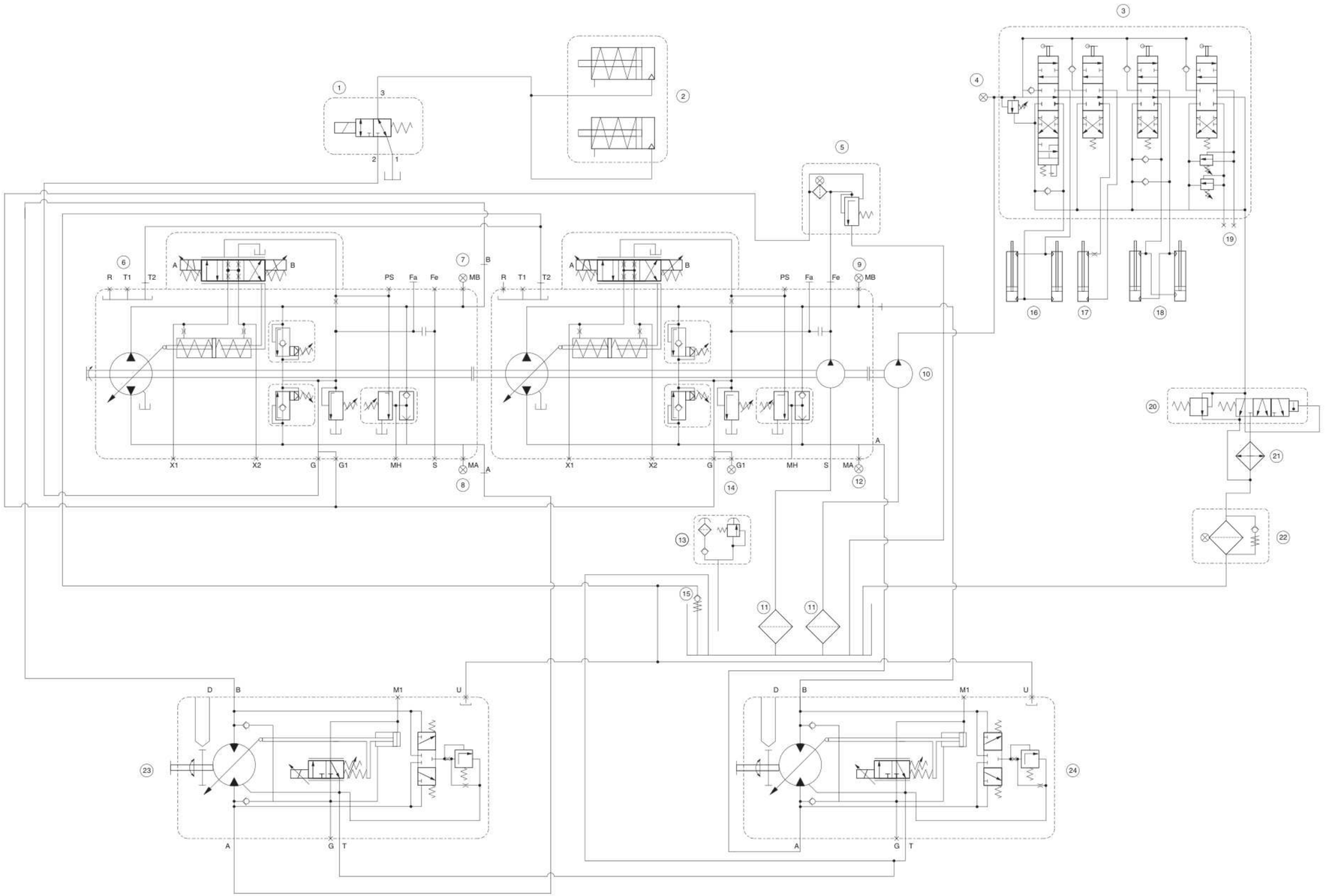
# ELECTRICAL SCHEMATIC
# K SERIES DOZER

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BC02J083



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**COMPONENTS**

1. BRAKE SOLENOID VALVE ASSEMBLY
2. FINAL DRIVE BRAKE ASSEMBLIES
3. FOUR-SPOOL MECH.
4. DIAGNOSTIC PANEL EQUIPMENT VALVE
5. HYDROSTATIC FILTER ASSEMBLY
6. HYDROSTATIC PUMP ASSEMBLY
7. DIAGNOSTIC PANEL LEFT REVERSE
8. DIAGNOSTIC PANEL LEFT FORWARD
9. DIAGNOSTIC PANEL RIGHT FORWARD
10. EQUIPMENT PUMP
11. STRAINER 100 MESH
12. DIAGNOSTIC PANEL RIGHT REVERSE
13. BREATHER
14. DIAGNOSTIC PANEL CHARGE PRESSURE
15. CHECK VALVE
16. LIFT CYLINDERS
17. TILT CYLINDER
18. ANGLE CYLINDERS
19. OPTIONAL RIPPER SECTION
20. COOLER BYPASS VALVE
21. OIL COOLER ASSEMBLY
22. RETURN FILTER ASSEMBLY
23. RIGHT HYDROSTATIC MOTOR
24. LEFT HYDROSTATIC MOTOR

**NOTES**

1. HYDRAULIC AND HYDROSTATIC SYSTEMS USE ONE COMMON RESERVOIR.

**HYDRAULIC SYMBOLS**

COMPONENT · CROSSING LINES · CHECK VALVE · FILTER OR SCREEN · LINE CONNECTION · RESTRICTOR · OIL COOLER

# HYDRAULIC SCHEMATIC
# K-SERIES DOZER

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