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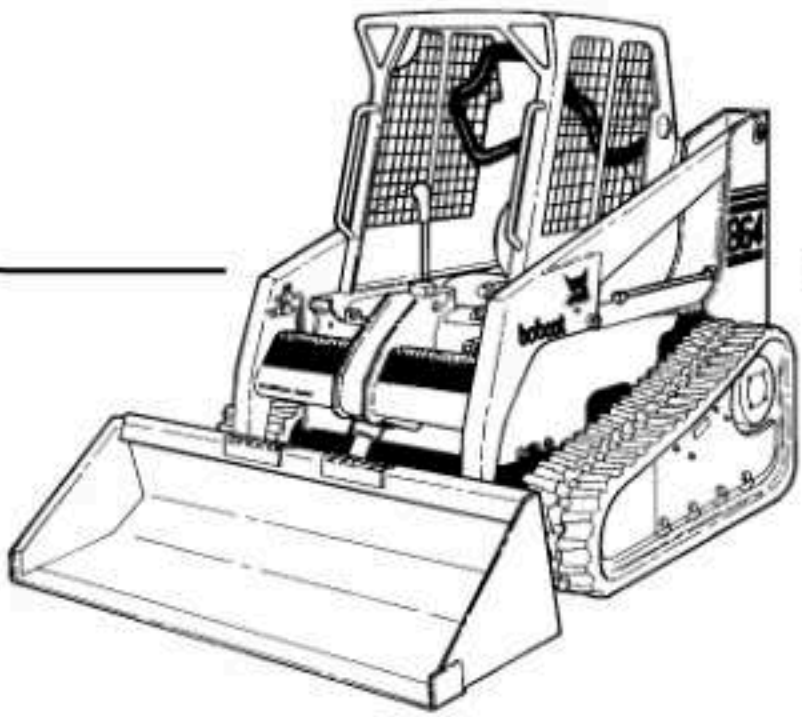
864

HIGH FLOW

Bobcat®

Service Manual

S/N 518911001 - 518914999
S/N 516811001 - 516814999
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EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

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Ingersoll Rand
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HYDROSTATIC SYSTEM INFORMATION

Troubleshooting Chart

The following troubleshooting chart is provided for assistance in locating and correcting problems which are most common. Many of the recommended procedures must be done by authorized Bobcat Service Personnel only.

⚠ WARNING

Check for correct function after adjustments, repairs or service. Failure to make correct repairs or adjustments can cause injury or death.

W-2004-1285

PROBLEM	CAUSE
No drive on one side, in one direction.	1, 2
No drive on one side in both directions.	2, 3, 4, 5
The loader does not move in a straight line.	2, 3, 5, 6, 7
The hydrostatic system is overheating.	8, 9, 10, 11
Service code **HP 2** appears (Warnings, low charge pressure) or the warning light comes ON.	8, 11, 12, 13, 14

KEY TO CORRECT THE CAUSE
1. The hydrostatic pump replenishing valves not seating.
2. The steering linkage needs adjustment.
3. The hydrostatic pump has damage.
4. The final drive chains are broken.
5. The hydrostatic motor has damage.
6. The tires do not have the correct tire pressure.
7. The tires are not the same size.
8. The hydrostatic fluid is not at the correct level.
9. The oil cooler has a restriction.
10. The temperature sending switch is not operating correctly.
11. The loader is not being operated at the correct RPM.
12. The sender is defective.
13. Pump is defective or worn hydrostatics.
14. Hydraulic filter is plugged.

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S/N 516811001-11999
S/N 517511001-11999
(PRINTED MARCH 2201)
V-0007

864 WIRING SCHEMATIC

WITH ADVANCED HAND CONTROL OPTION

S/N 518911001-12163
S/N 516811001-11141
S/N 517511001-11123
(PRINTED MARCH 2001)
V-0008

864 WIRING SCHEMATIC

WITH ADVANCED HAND CONTROL OPTION

S/N 518912164-12999
S/N 516811142-11999
S/N 517511124-11999
(PRINTED MARCH 2001)
V-0046

864 WIRING SCHEMATIC

S/N 518913001-14999
S/N 516812001-14999
S/N 517512001-14999
(PRINTED MARCH 2001)
V-0072

864 WIRING SCHEMATIC

OPTIONS

S/N 518911001-14999
S/N 516811001-14999
S/N 517511001-14999
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V-0041

864 WIRING SCHEMATIC

OPTIONS

S/N 518911001-14999
S/N 516811001-14999
S/N 517511001-14999
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864 WIRING SCHEMATIC

OPTIONS

S/N 518913001-13338
S/N 516812001-12009
S/N 517512001-12019
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V-0071

864 WIRING SCHEMATIC

OPTIONS

S/N 518913339-14999
S/N 516812010-14999
S/N 51712020-14999
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All dimensions are given in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.

Cylinder Head and Block

Cylinder Head Studs - Length	5.906±0.031 (150,0±0,8)
Cylinder Bore	3.583+0.0008 (91,0+0,02)
Wear Limit	3.587 (91,1)

Crankshaft and Main Bearings

Crankshaft Pin Width	1.220 (31,0)
Crankshaft Pin Diameter	2.165-0.0004-0.0012 (55,0-0,01-0,03)
Oval Wear Limit	0.0004 (0,01)
Crankshaft Journal Width	1.378+0.0016 (35,0+0,04)
Crankshaft Journal Diameter	2.756-0.0004-0.0012 (70,0-0,01-0,03)
Oval Wear Limit	0.0003 (0,008)
Eccentricity Max. Permitted	0.002 (0,05)
Thrust Bearing Journal Width	1.378+0.002 (35,0+0,04)
Main Bearing Shell I.D.	2.757-2.758 (70,02-70,055)
Radial Clearance	0.0011-0.0033 (0,03-0,084)
Wear Limit	0.0047 (0,12)
Bearing Bore in Crankcase	2.953+0.0007 (75,0+0,019)
Thrust Bearing Stop Rings O.D.	1.374-0.005 (34,9-0,133)
Oversize	0.0157 (0,4)
Limit for Oversize	1.406-0.0052 (35,7-0,133)
Crankshaft End Play	0.0039-0.0106 (0,1-0,27)
Wear Limit	0.016 (0,4)

Camshaft and Bearings

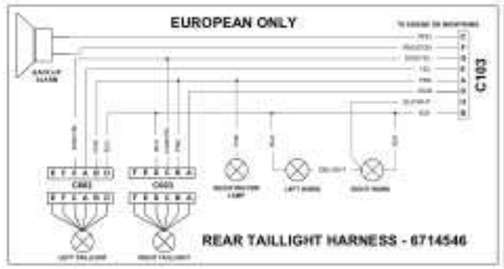
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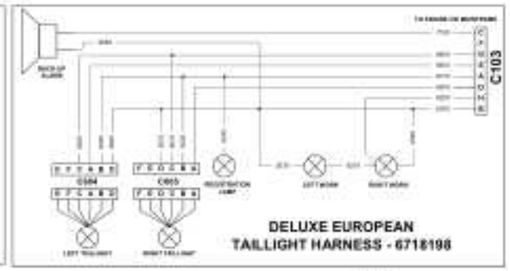
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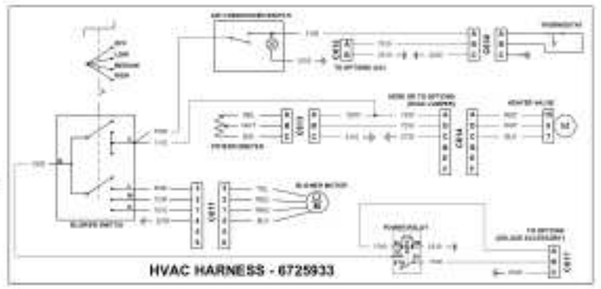
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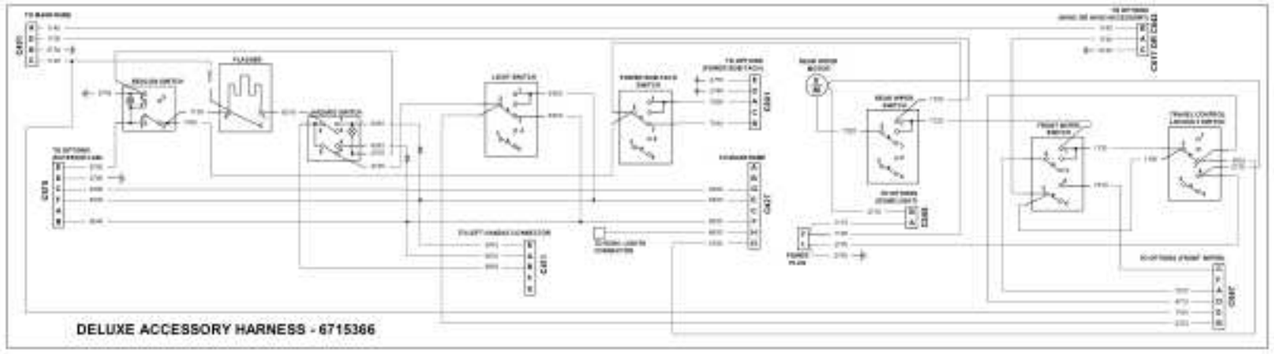
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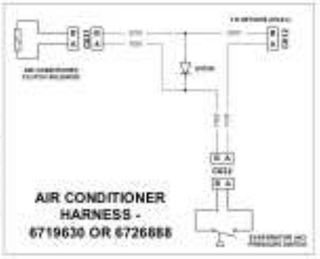


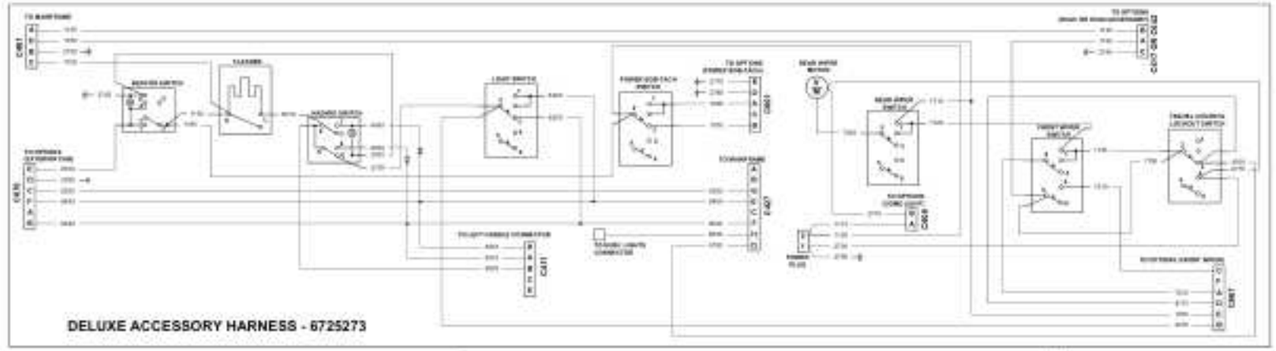


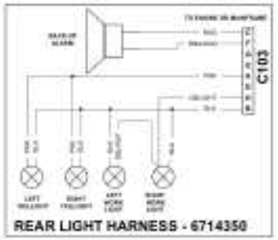




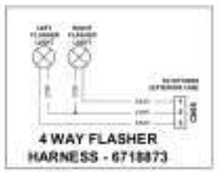




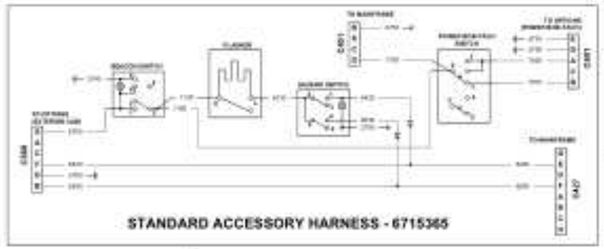


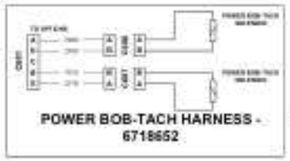


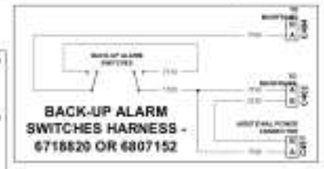




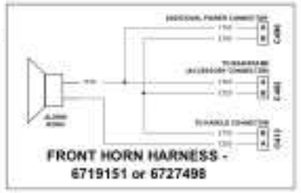


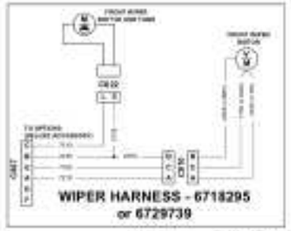


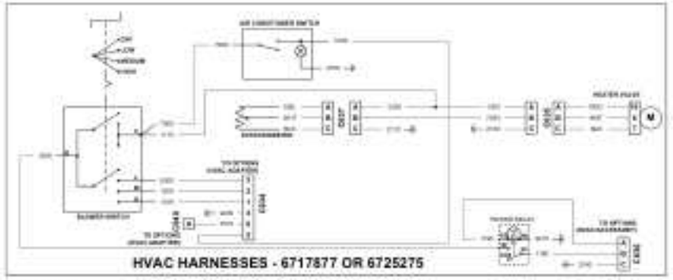


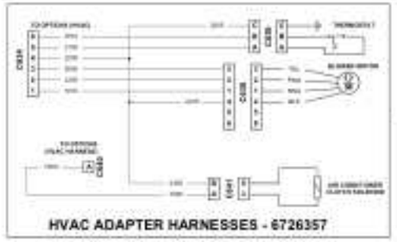










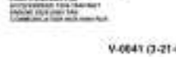












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