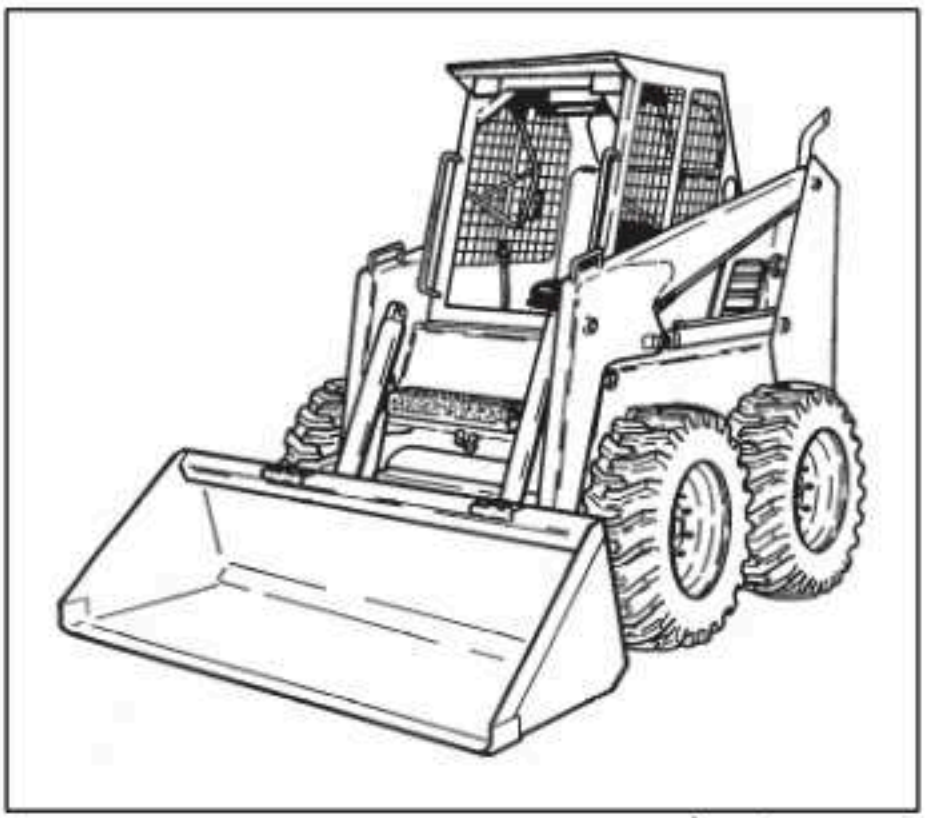
953

Service Manual



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

MELROE
INGERSOLL-RAND

6724352 (11–95)

Printed in U.S.A.

bobcat

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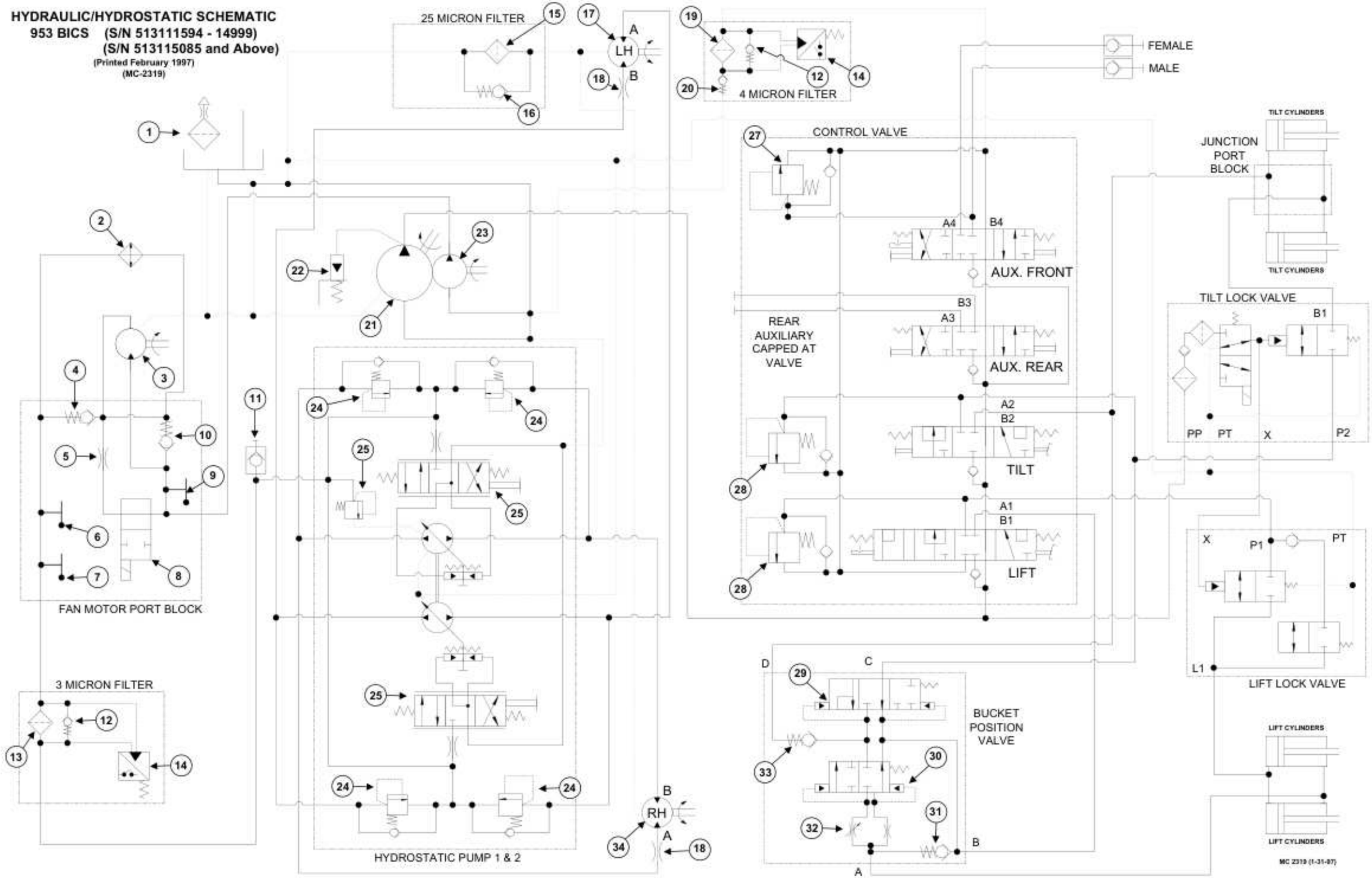
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HYDRAULIC/HYDROSTATIC SCHEMATIC
953 BICS (S/N 513111594 - 14999)
(S/N 513115085 and Above)
(Printed February 1997)
(MC-2319)



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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, 3
No drive on one side in either directions.	2, 3, 5, 6, 20, 22
The loader does not move in a straight line.	2, 3, 4, 6, 7, 8, 20
The hydrostatic system is overheating.	9, 10, 11, 12, 13, 14, 17, 18, 19
The oil light comes ON.	11, 14, 15, 16, 21

KEY TO CORRECT THE CAUSE

1. The hydrostatic system has a fluid leak.
2. The steering linkage needs adjustment.
3. The high pressure replenishing valve(s) are defective.
4. The hydrostatic pumps have a defect.
5. The final drive chain is broken.
6. The hydrostatic motor has a defect.
7. The tires do not have the correct tire pressure.
8. The tires are not the same size.
9. The hydrostatic fluid is not at the correct level.
10. The oil cooler has a restriction.
11. The temperature switch is not operating correctly.
12. The control valve is not operating correctly.
13. The loader is not being operated at the correct RPM.
14. The temperature switches have a defect.
15. There is low charge pressure.
16. Filters need replacing.
17. Fan motor by–pass valve has a defect.
18. Fan motor solenoid valve has a defect.
19. Oil cooler by–pass valve has a defect.
20. Tow valves maybe open.
21. Fluid is too hot.
22. Control sleeve orifice is plugged at hydrostatic pumps.

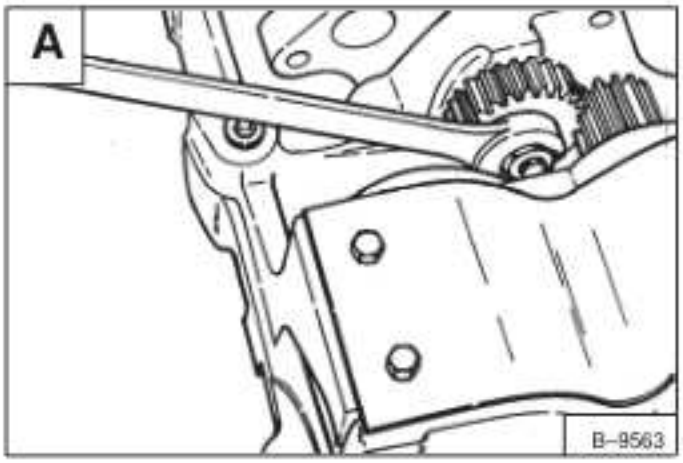
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BALANCER UNIT (Cont'd)

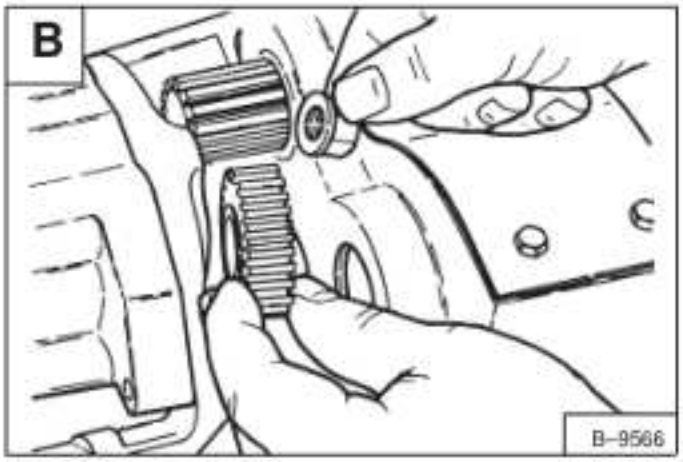
Oil Pump Removal and Installation

Remove the nut at the drive gear for the balance weights **[A]**.

Installation: Put (LOCTITE #242) liquid adhesive on the threads and tighten to 70 ft.–lbs. (95 Nm) torque.

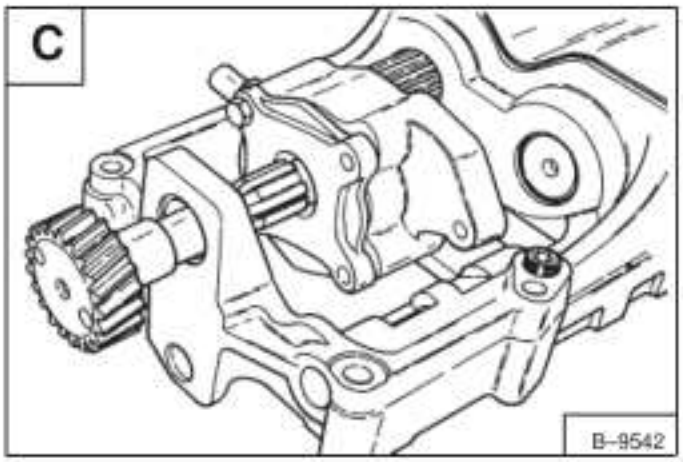


Remove the drive gear for the balance weights **[B]**.



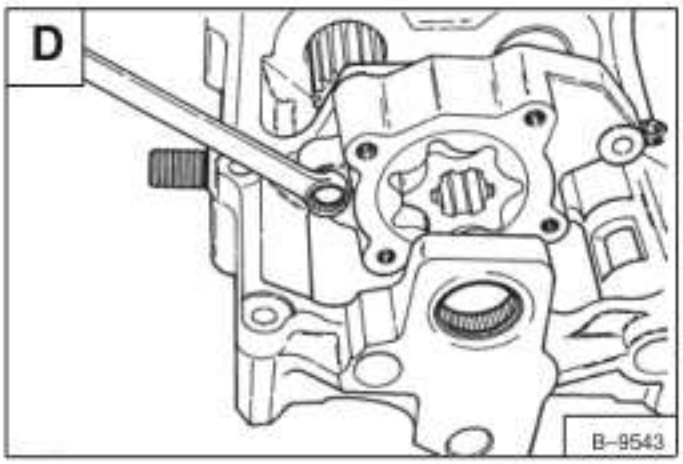
Remove the drive shaft **[C]**.

NOTE: Be careful not to damage the needle bearings if they are to be used again.



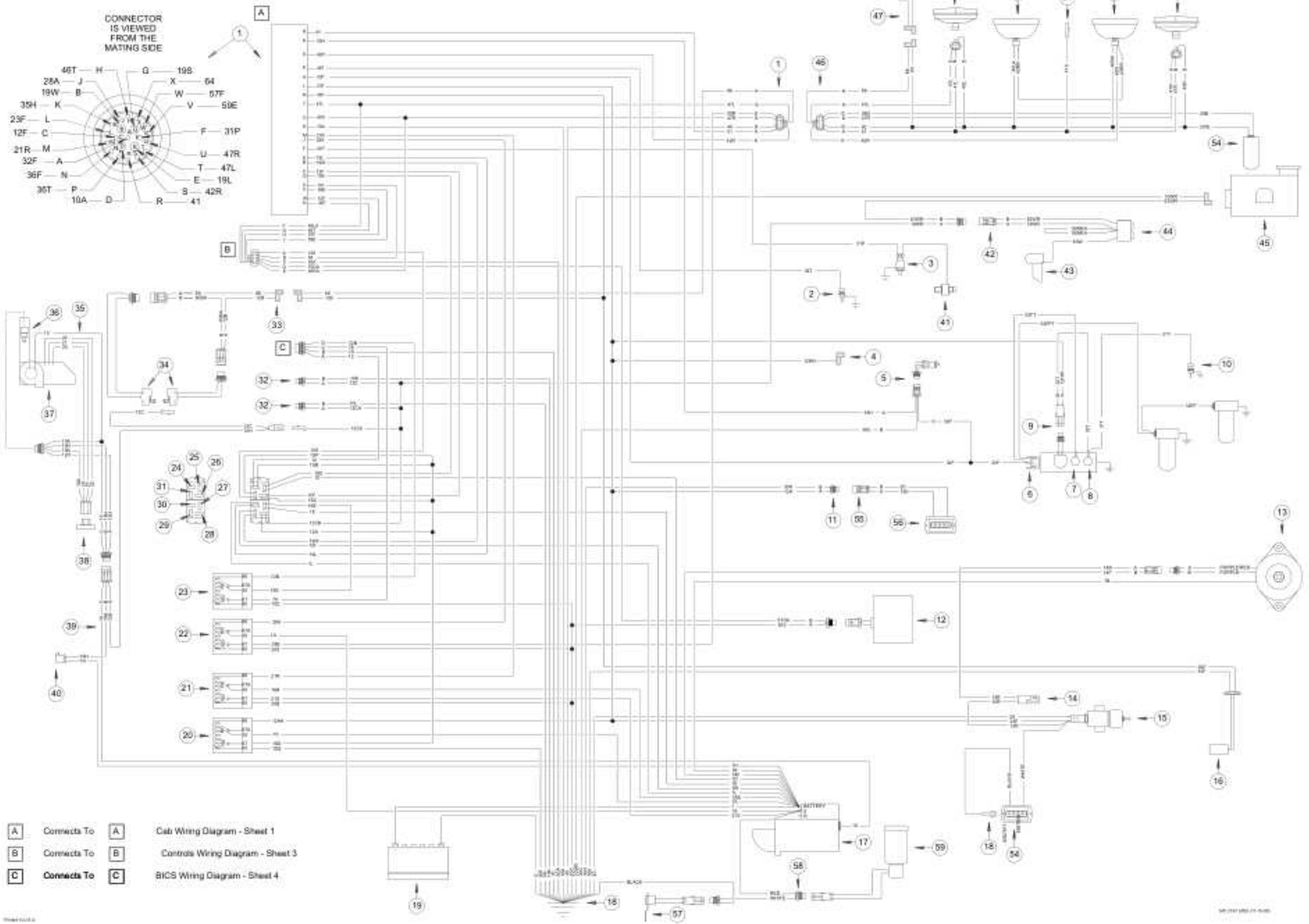
Remove the bolts at the oil pump body **[D]**.

Installation: Tighten the bolts to 22 ft.–lbs. (30 Nm) torque.



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WIRING DIAGRAM (P/N 6724786) Sheet 2 Of 4
Engine
(Harness 6594891 Rev. E or 6597224)
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