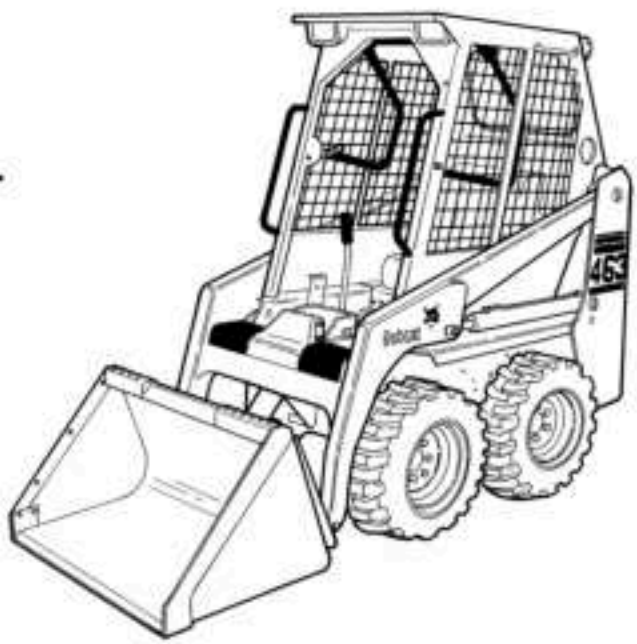
463

Bobcat®

Service Manual

S/N 538911001 & Above
S/N 539011001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

Ingersoll Rand
Compact Vehicle Technologies

6903711 (8-07)

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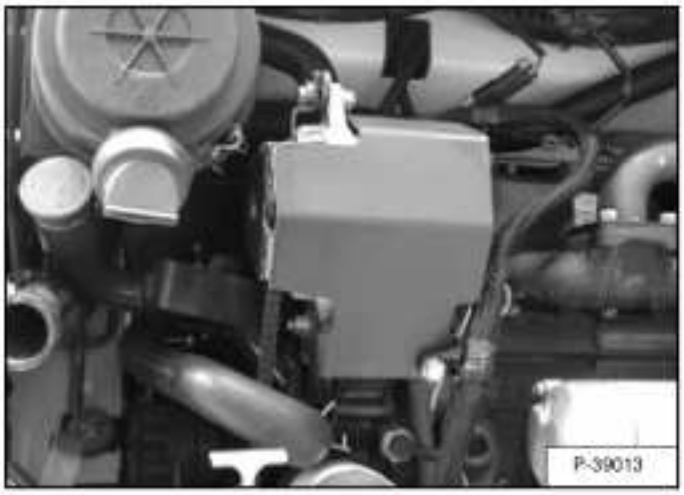
Description

IMPORTANT

Do Not use silicone base sprays and/or sealants on harness connectors or components.

I-2123-0397

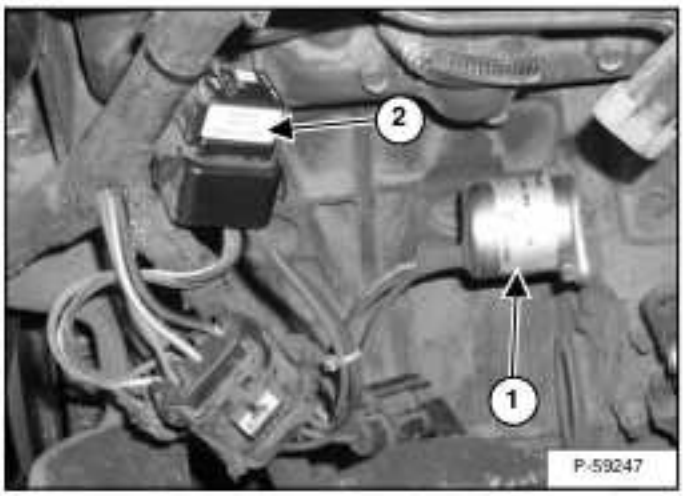
Figure 60-10-1



The loader has a 12 volt, negative ground alternator charging system **[Figure 60-10-1]**.

Fuel Shutoff Timer and Fuel Pull Solenoid Locations

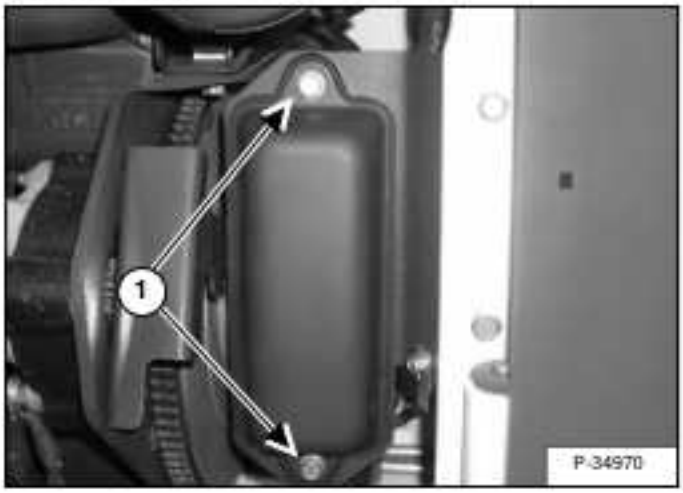
Figure 60-10-2



Raise the operator cab to access the fuel pull solenoid (Item 1) and the fuel shutoff timer (Item 2) **[Figure 60-10-2]** located on the front side of the engine.

Fuse And Relay Switches Location

Figure 60-10-3



The electrical system is protected by 11 fuses and five relay switches located in the engine compartment **[Figure 60-10-3]**.

Remove the bolts (Item 1) **[Figure 60-10-3]** to remove the cover.

Figure 60-10-4



The decal (Item 1) **[Figure 60-10-4]** located in the cover specifies the fuse sizes used in the various electrical circuits and shows the relay switch locations and description.

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Chart (Cont'd)

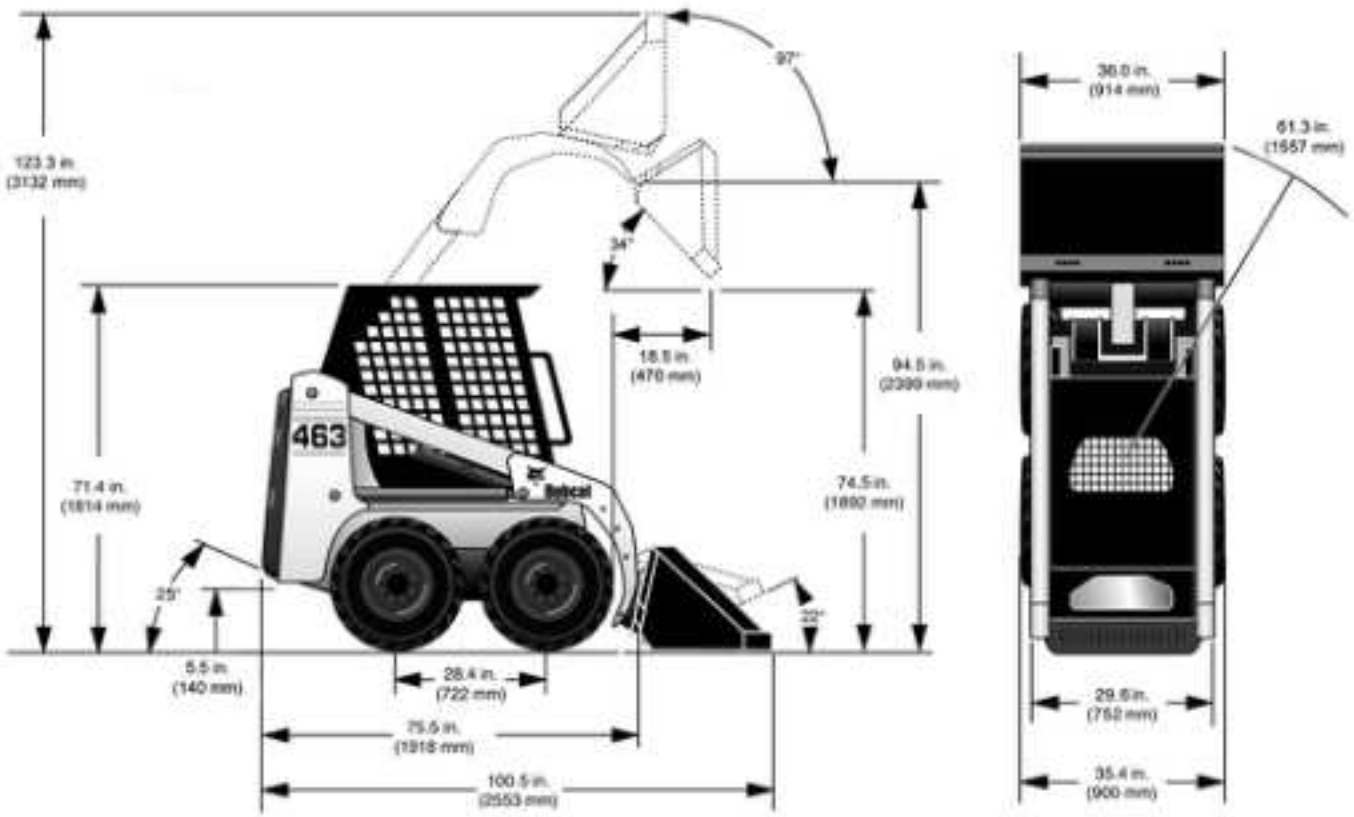
KEY TO CORRECT THE CAUSE	
1. Battery capacity low.	30. Worn cylinder bores.
2. Bad electrical connection.	31. Worn valves and seats.
3. Faulty starter motor.	32. Broken, worn or sticking piston rings.
4. Incorrect grade of oil.	33. Worn valve stems and guides.
5. Low cranking speed.	34. Overly full air cleaner.
6. Fuel tank empty.	35. Worn or damaged bearings.
7. Faulty stop control operation.	36. Not enough oil in the oil pan.
8. Plugged fuel line.	37. Gauge is not correct.
9. Faulty fuel lift pump.	38. Oil pump worn.
10. Plugged fuel filter.	39. Pressure relief valve is open.
11. Restriction in the air cleaner.	40. Pressure relief valve is sticking closed.
12. Air in the fuel system.	41. Broken relief valve spring.
13. Faulty fuel injection pump.	42. faulty suction pipe.
14. Faulty fuel injectors.	43. Plugged oil filter.
15. Incorrect use of the glow plugs.	44. Piston seizure.
16. Glow plugs not working.	45. Incorrect piston height.
17. Broken fuel injection pump drive.	46. Damaged fan.
18. Incorrect fuel pump timing.	47. Faulty engine mounting.
19. Incorrect valve timing.	48. Faulty thermostat.
20. Poor compression.	49. Restriction in the water jacket.
21. Plugged fuel tank vent.	50. Loose fan belt.
22. Incorrect type or grade of fuel.	51. Plugged radiator.
23. Exhaust pipe restriction.	52. Faulty water pump.
24. Cylinder head gasket leaking.	53. Plugged breather pipe.
25. Overheating.	54. Valve stem seals damaged.
26. Cold running.	55. Coolant level low.
27. Incorrect valve tappet adjustment.	56. Plugged oil pump pipe strainer.
28. Sticking valves.	57. Broken valve springs.
29. Incorrect high pressure tubelines.	58. Auxiliary Hydraulics in Detent.

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LOADER SPECIFICATIONS

Dimensions

- Dimensions are given for loader equipped with standard tires and dirt bucket and may vary with other bucket types. All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specifications conform to SAE or ISO standards and are subject to change without notice.



B-20824A

Changes of structure or weight distribution of the loader can cause changes in control and steering response and can cause failure of the loader parts.

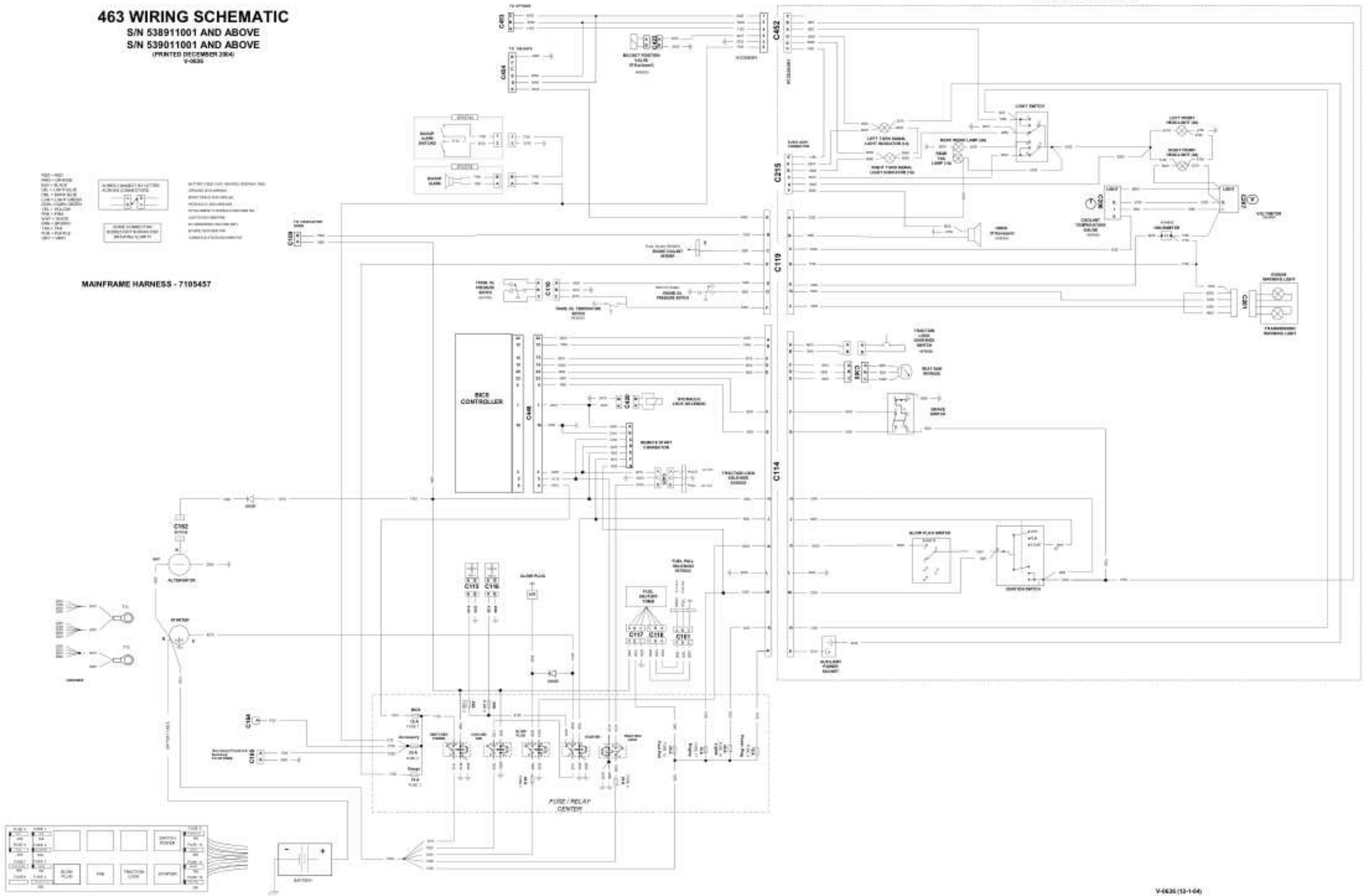
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463 WIRING SCHEMATIC

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(PRINTED DECEMBER 2004)
V-0635

MAINFRAME HARNESS - 7105457

CAB HARNESS - 6732922



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