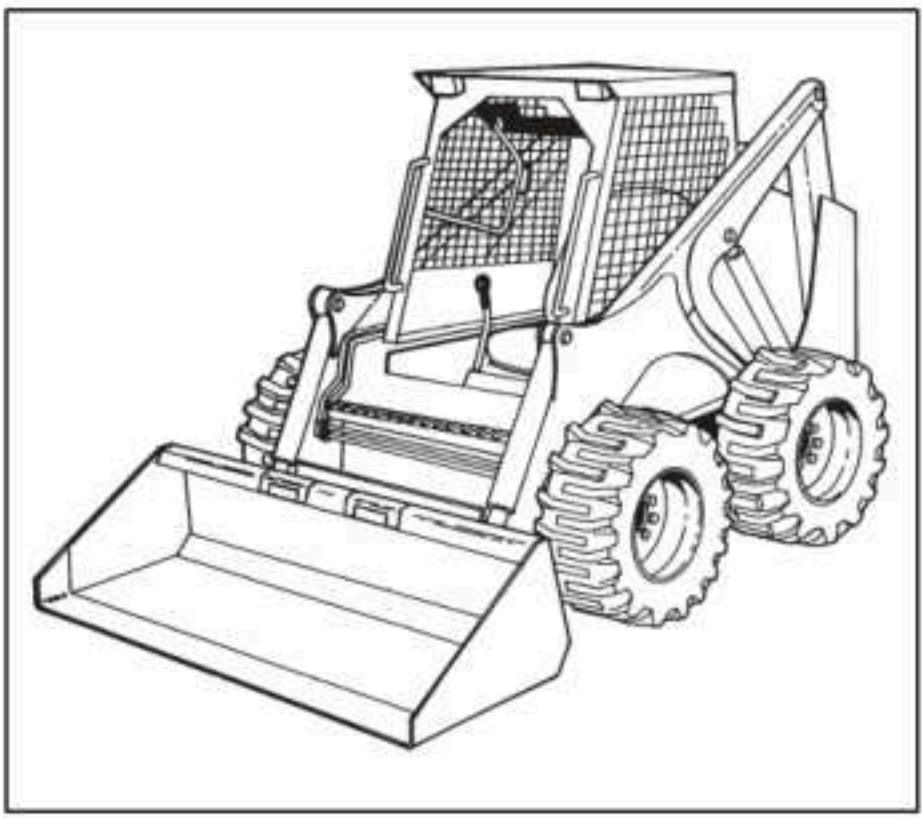
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Service Manual

(S/N 514114999 & Below)
(S/N 514212999 & Below)



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

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CALIFORNIA
PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

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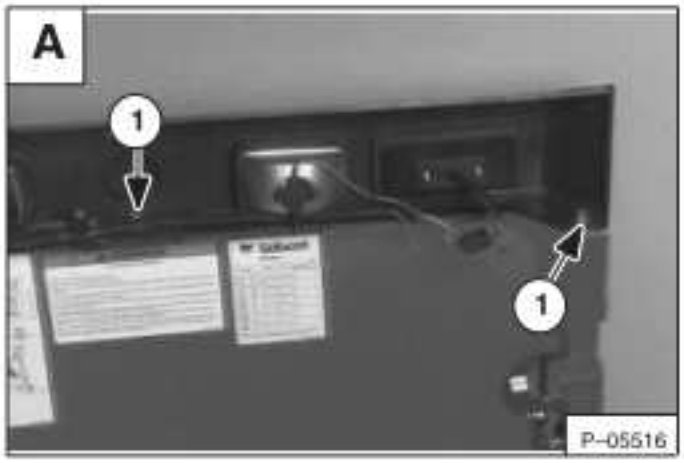
Hood Removal And Installation

Remove the rear lights harness from the rear door hood if so equipped.

Remove the mounting bolts from the rear door hood (Item 1) **[A]**.

Installation: Tighten the hood mounting bolts to 25–28 ft.–lbs. (34–38 Nm) torque.

Remove the hood from the rear door.

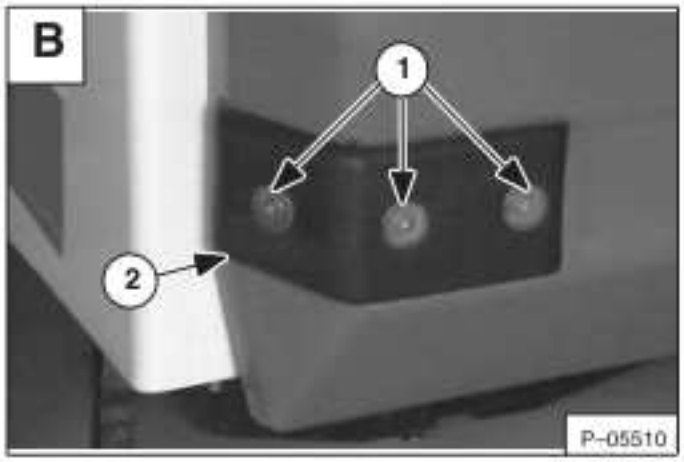


Bumper Removal And Installation

Remove the rear bumper mounting bolts (Item 1) **[B]** with a 7/32 inch allen wrench.

Installation: Tighten the mounting bolts to 180–200 in.–lbs. (21–23 Nm) torque.

Remove the bumper (Item 2) **[B]** from the rear door.

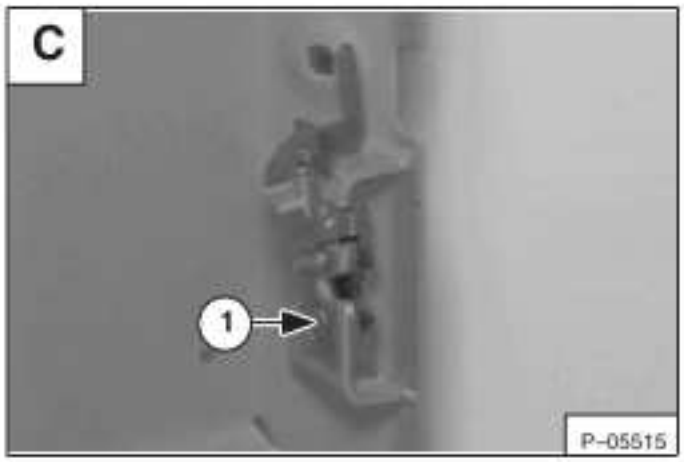


Door Latch Removal And Installation

Remove the door latch mounting bolts (Item 1) **[C]** from the door latch mechanism.

Installation: Tighten the mounting bolts to 80–90 in.–lbs. (9–10 Nm) torque.

Remove the latch and handle mechanisms from the rear door.



Door Latch And Catch Adjustment

⚠ WARNING

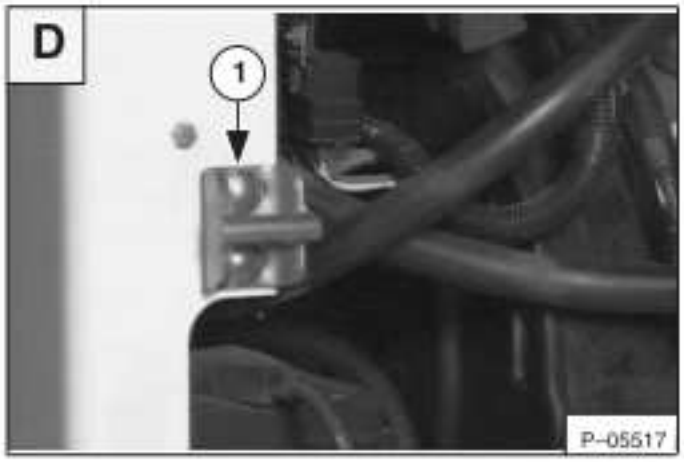
AVOID INJURY

Never service or adjust the machine when the engine is running unless instructed to do so in the manual.

W–2012–0290

The door catch (Item 1) **[D]** can be adjusted side to side for alignment with the door latch.

The door latch mechanism (Item 1) **[C]** can be adjusted forward or backward for alignment with the door catch.



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BLOWER HOUSING/FAN GEARBOX

Removal And Installation

Raise the lift arms and install an approved lift arm support device. (See Page 1–1.)

Raise the operator cab. (See Page 1–1.)

Remove the operator cab gas cylinder on the left side of the loader. (See Page 5–1.)

Disconnect the operator cab wiring harness from the engine wiring harness (Item 1) **[A]**.

Remove the harness clamp bolt (Item 2) **[A]**.

Lay the electrical harness down for clearance at the blower housing.

Remove the hydraulic/hydrostatic filter mounting bracket assembly. (See Page 2–1.)

Remove the fan drive belt.

Remove the four mounting bolts (Item 1) **[B]** and spacer tubes (two spacer tubes are outside the housing and two inside the housing).

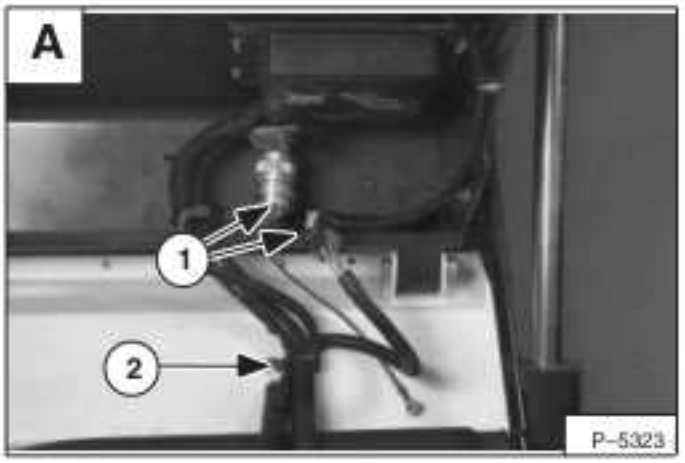
NOTE: Remove the two rear mounting bolts first.

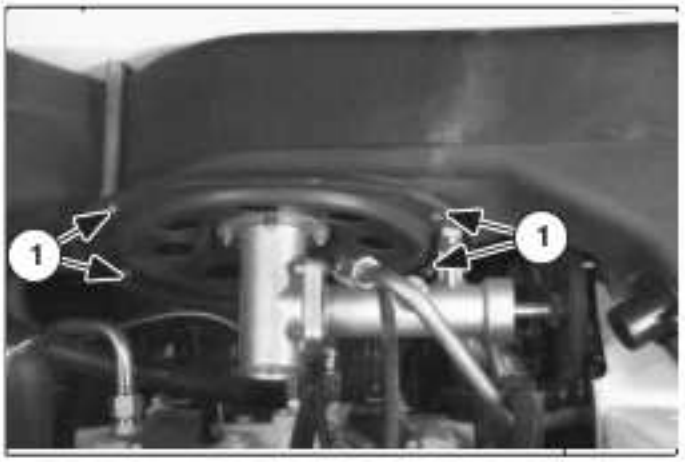
Installation: Tighten the mounting bolts to 25–28 ft.–lbs. (34–38 Nm) torque.

Slide the blower housing forward and remove the fan/fan gearbox assembly **[C]**.

Remove the blower housing.

See Page 7–15 for Disassembly of the Fan Gearbox







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Troubleshooting Guide (Cont'd)

The following troubleshooting guide is provided for assistance in locating and correcting BICS system problems It is recommended that these procedures 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

SEAT SENSOR

PROBLEM	SOLUTION #
Seat indicator light does not come ON with operator in seat.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
Seat indicator light stays ON when operator is out of seat.	2, 3, 6, 10, 11, 12, 13, 14
Intermittent indicator light during operation.	11, 15, 16, 17, 18

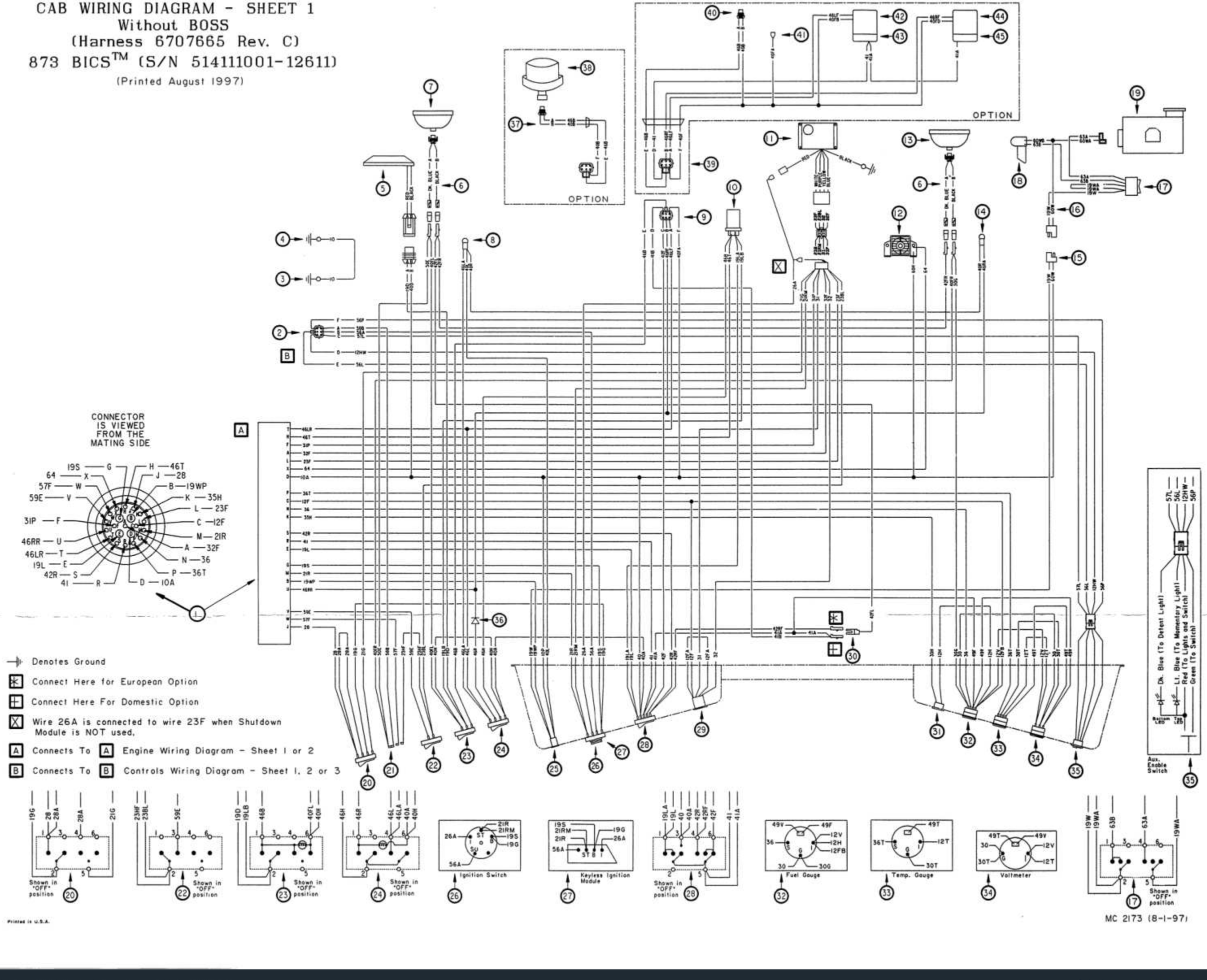
SOLUTION SUGGESTIONS

1. Check to make sure power indicator light is ON.
2. Check for debris under and around seat.
3. Look for any obstruction around seat.
4. Check to make sure seat rail lowers when weight is in seat.
5. Raise cab and check for magnet collar movement when weight is added to seat. (Magnet collar should extend approximately 3/8 inch (9,5 mm) beyond the sensor assembly with weight in the seat).
6. Use sensor tester to check operation of sensor and controller. Follow instructions on tester.
7. Check to make sure the magnet guide pin is in place.
8. Check for contamination on magnets such as metal particles or for shipping plate over magnets.
9. Check to make sure both magnets are in collar.
10. Check for binding of magnet collar or bushing with hex head on other side for binding.
11. Check for correct mounting. One spring for standard seat. Two springs for suspension seats. Thick washers should be under front seat mounting rails on both sides.
12. Check for loose hardware mounting magnet collar. Check to make sure the magnet collar bushing is threaded on all the way so it is contacting seat rail.
13. Check to make sure seat rail raises when weight is removed from the seat.
14. Raise cab and check for magnet collar movement when weight is removed from seat. (Magnet collar should extend approximately 1/8 inch (3,2 mm) beyond the sensor assembly without weight in seat).
15. With smaller operators that operate with the seat forward some mounting alterations may be required. (See solution suggestions 16, 17 and 18.)
16. Adjust suspension seat to lightest weight setting.
17. Check to make sure the seat rails move up and down freely when weight is added.
18. Add washer between the bushing and the magnet collar assembly which slides on and the seat rail. This will reduce the amount of seat travel required to activate the system. **Must check**, with seat moved all the way back, that indicator light does not stay on with operator out of seat. If light does not go out with operator out of the seat, the washer must be removed.

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CAB WIRING DIAGRAM - SHEET 1
Without BOSS
(Harness 6707665 Rev. C)
873 BICS™ (S/N 514111001-12611)

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