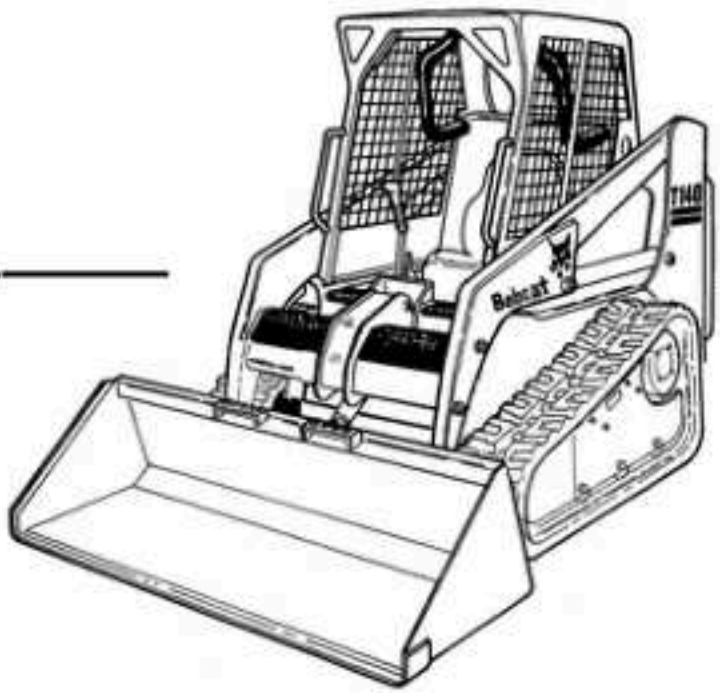
T140

Bobcat®

Service Manual

S/N 527111001 & Above
S/N 527211001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

6903153 (2-06)

Ingersoll Rand
Compact Vehicle Technologies
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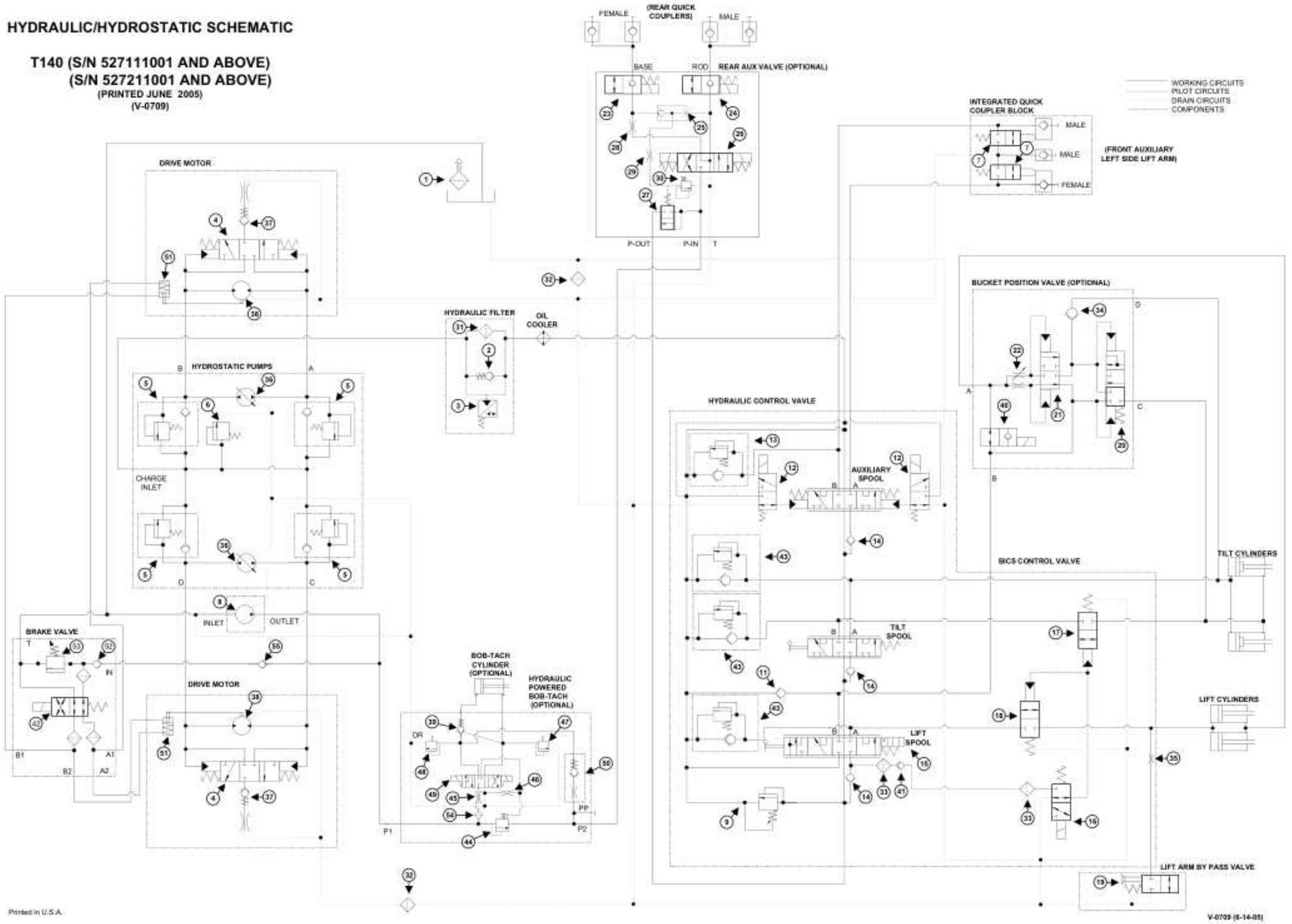
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HYDRAULIC/HYDROSTATIC SCHEMATIC

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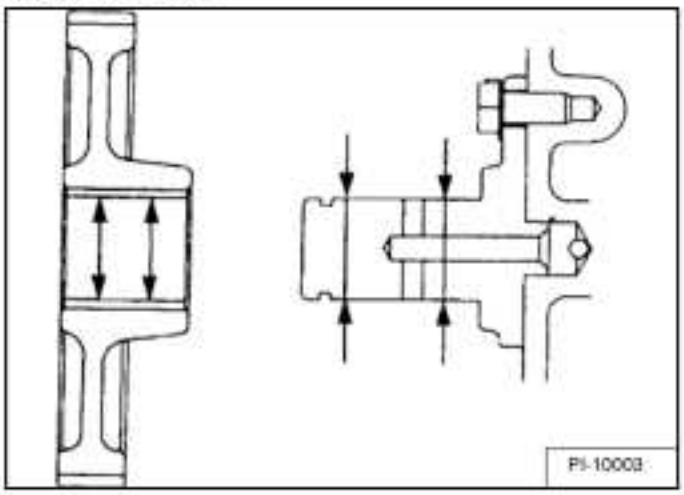
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Idler Gear And Shaft Servicing

Figure 70-100-46



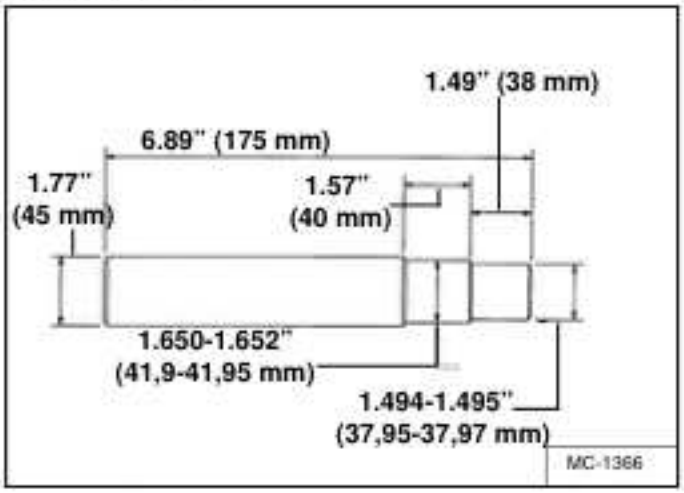
Measure the O.D. of the idler gear shaft **[Figure 70-100-46]**.

Measure the I.D. of the idler gear bushing **[Figure 70-100-46]**.

If the clearance exceeds the allowable limit, replace the bushing.

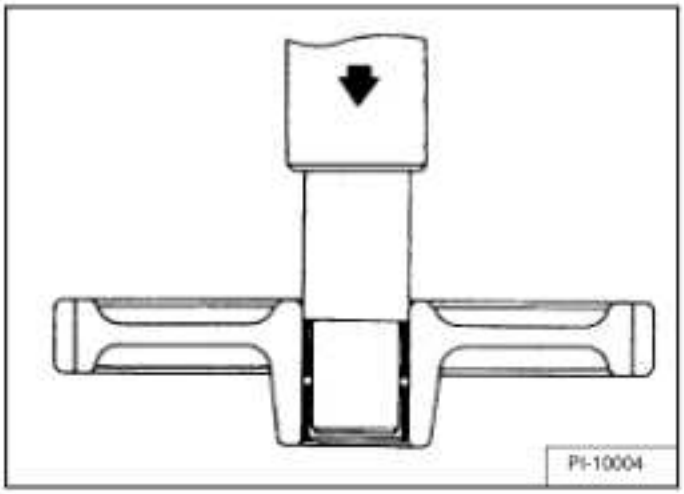
Idler Gear Shaft O.D.	1.494-1.495 inch (37,96-37,98 mm)
Idler Gear Bushing I.D.	1.496-1.497 inch (38,0-38,03 mm)
Clearance Between Idler Shaft & Gear Bushing	0.001-0.003 inch (0,025-0,07 mm)
Allowable Limit	0.004 inch (0,1 mm)

Figure 70-100-47



To replace the idler gear bushing, make a driver tool as shown in figure **[Figure 70-100-47]**.

Figure 70-100-48

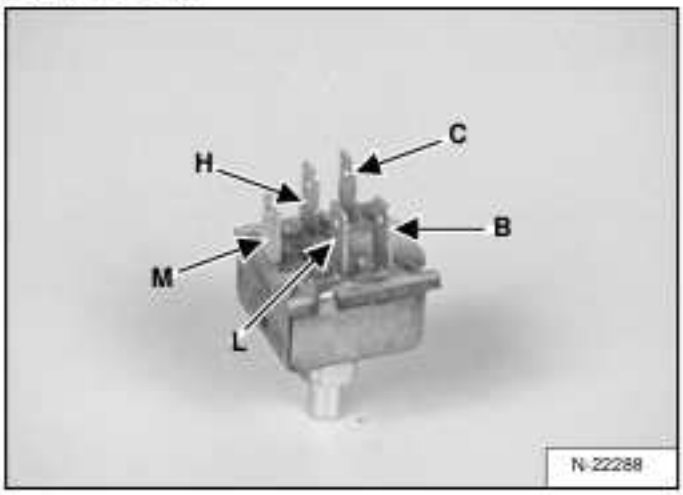


Use a press and special driver tool, to remove the old bushing and install the new bushing **[Figure 70-100-48]**.

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Checking The Electrical System (Cont'd)

Figure 80-30-10



If there is voltage at the wiring harness, check the blower switch **[Figure 80-30-10]** for resistance.

With the switch in the **OFF** position, there should be resistance between **L** terminal and the **H** terminal frame.

With the switch in the **1** position, there should be resistance between **C** terminal and the **B** terminal, between the **C** terminal and the **L** terminal and also between the **B** terminal and the **L** terminal frame **[Figure 80-30-10]**.

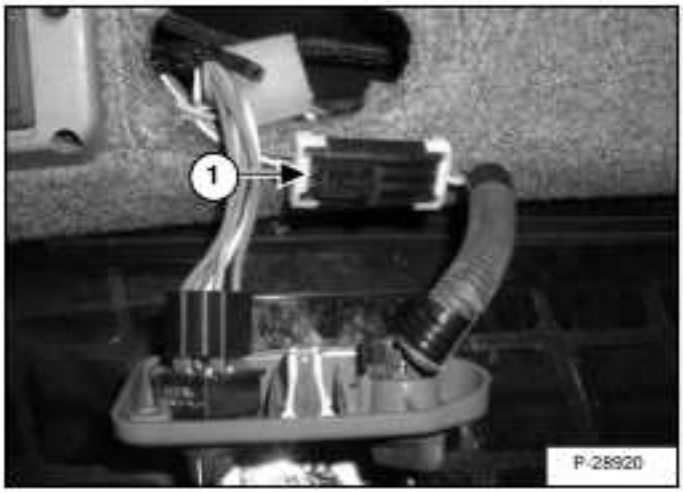
With the switch in the **2** position, there should be resistance between **C** terminal and the **B** terminal, between the **C** terminal and the **M** terminal and also between the **B** and the **M** terminal frame **[Figure 80-30-10]**.

With the switch in the **3** position, there should be resistance between **C** terminal and the **B** terminal, between the **C** terminal and the **H** terminal and also between the **B** terminal and the **H** terminal frame **[Figure 80-30-10]**.

If any of the above resistance tests fail, replace the blower switch.

If the above resistance tests are good, check the potentionmeter.

Figure 80-30-11

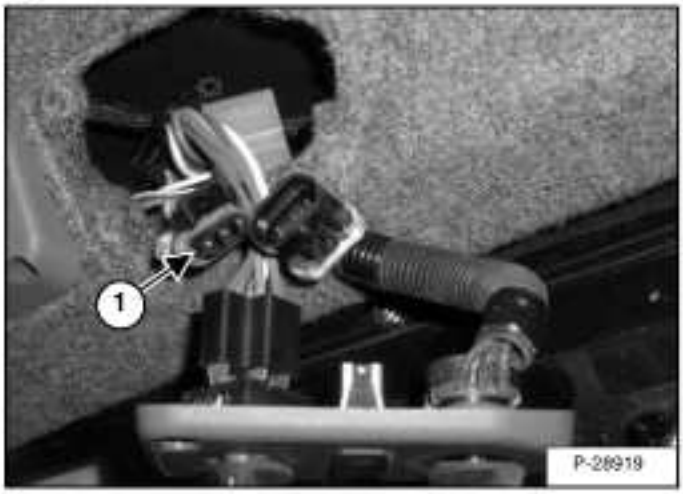


The potentiometer will affect the operation of the heater.

If heater valve does not open, or close, check the potentiometer.

At the loader cab, disconnect the loader harness (Item 1) **[Figure 80-30-11]** from the potentiometer.

Figure 80-30-12



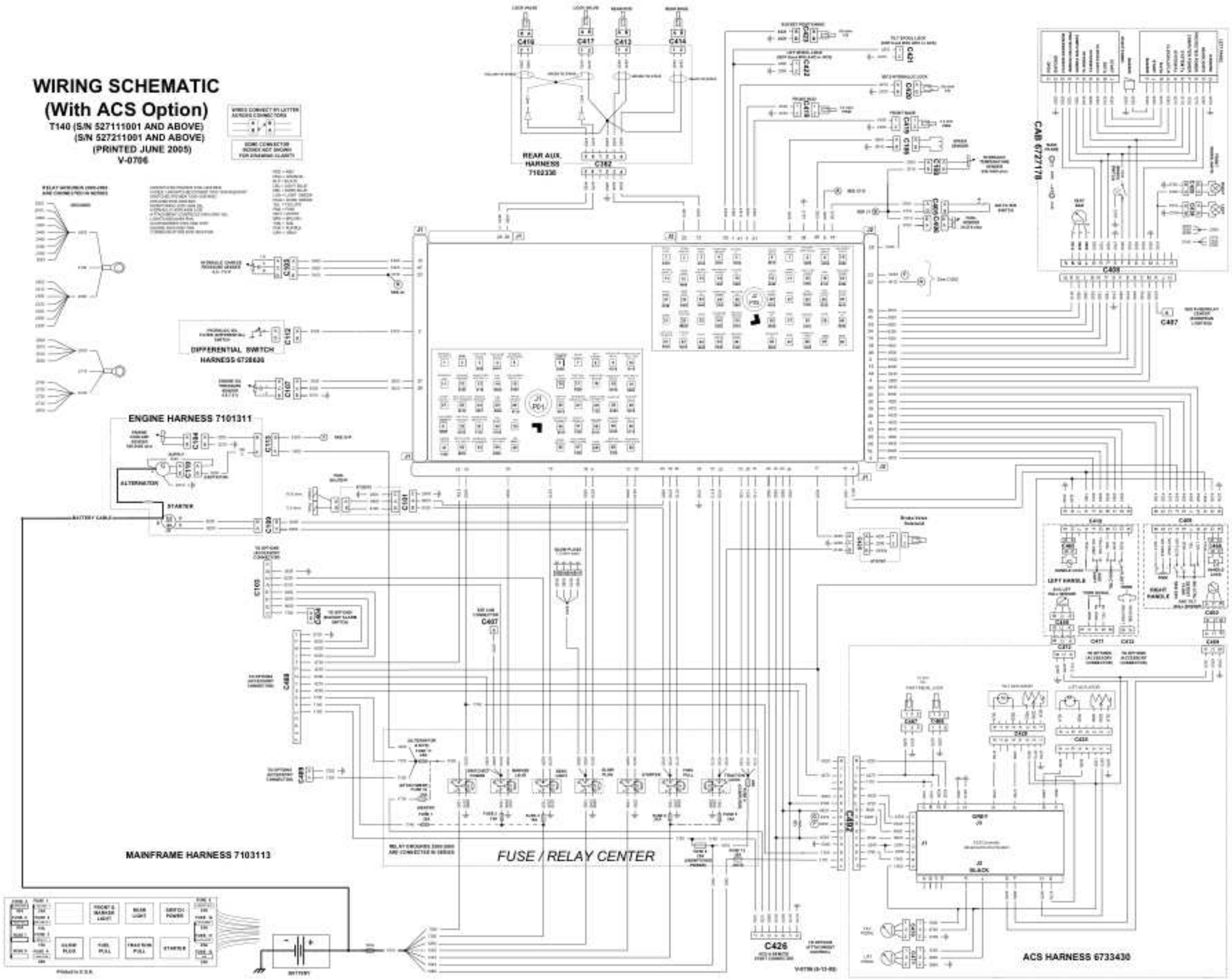
Check the loader harness (Item 1) **[Figure 80-30-12]** for voltage. The voltage should be 12 volts.

If there is no voltage at the wiring harness, check the harness for broken wires or blown fuse.

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WIRING SCHEMATIC
(With ACS Option)

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