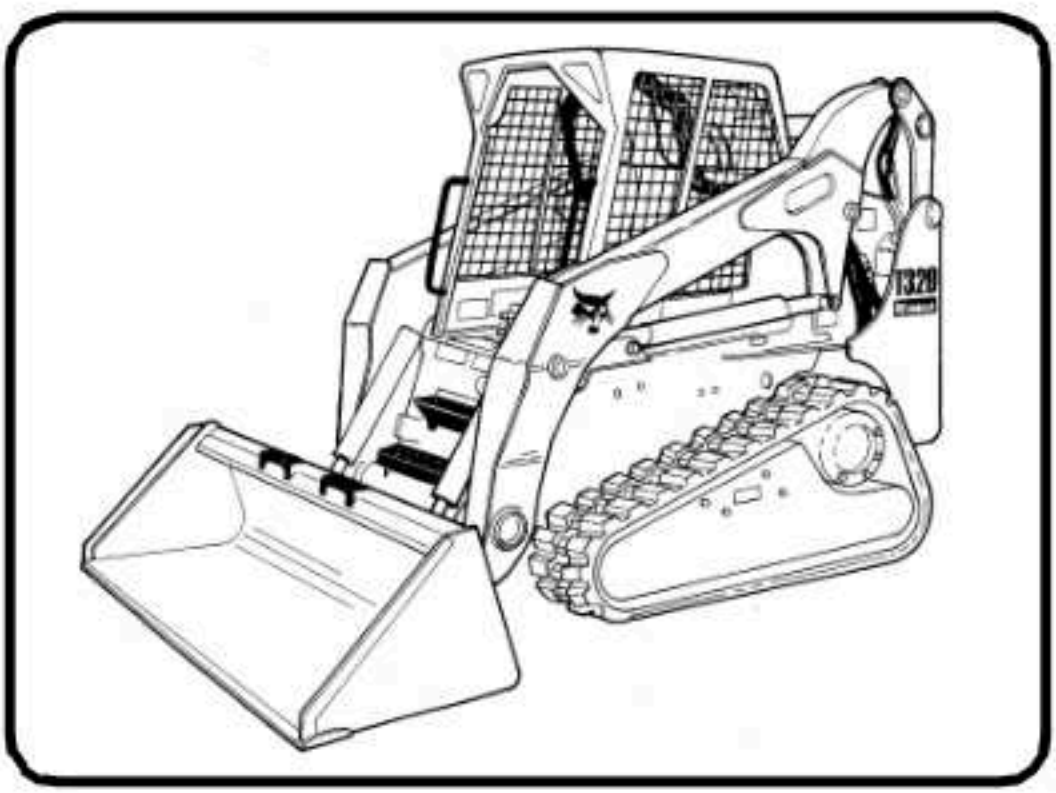
Bobcat®

Service Manual
T320 Compact Track Loader

S/N A7MP60001 & Above
S/N AAKZ11001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6987046 (9-08)

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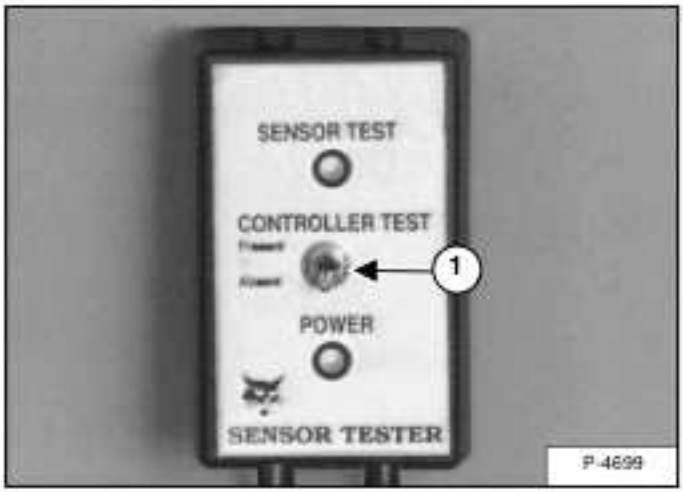
Bobcat Interlock Control System (BICS) Circuit Test (Cont'd)

Figure 60-110-10



The BICS™ light (Item 1) **[Figure 60-110-10]** [SEAT BAR] on left instrument panel must be OFF.

Figure 60-110-11



Move the toggle switch (Item 1) **[Figure 60-110-11]** on the sensor tester to the Absent position.

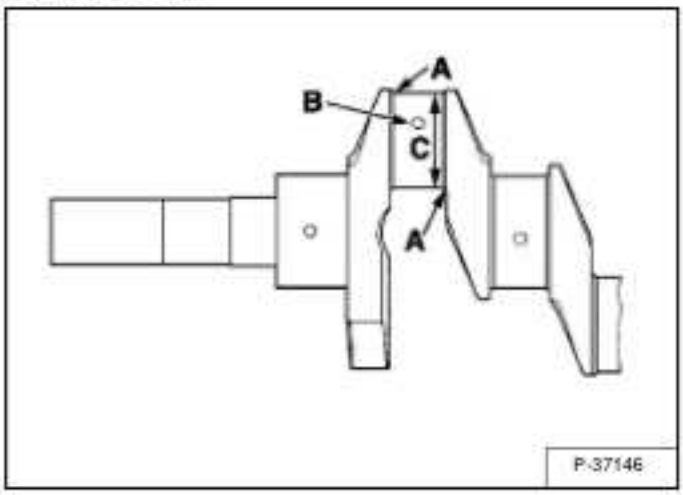
The BICS™ light (Item 1) **[Figure 60-110-10]** [SEAT BAR] on left instrument panel must be ON.

If the above test fails, there is a problem with the Bobcat controller or the wiring harness.

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Crankshaft And Bearings - Servicing (Cont'd)

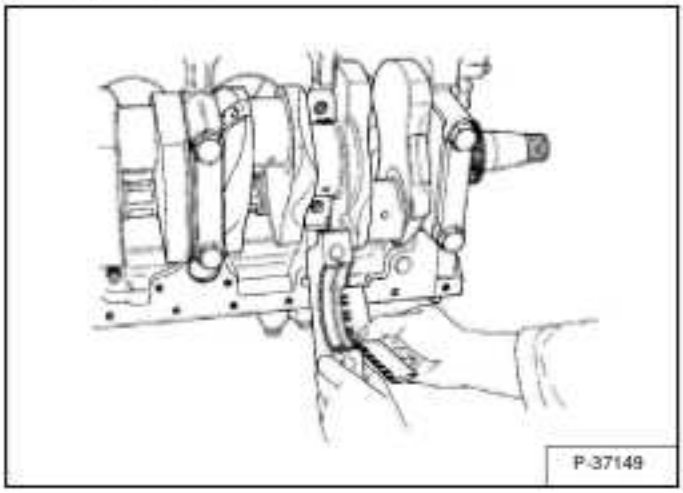
Figure 70-90-42



Undersize dimensions of crank pin.

Undersize	0.008 in. (0,2 mm)	0.016 in. (0,4 mm)
Dimension A	0.1102 to 0.1260 in. radius (2,8 to 3,2 mm radius)	0.1102 to 0.1260 in. radius (2,8 to 3,2 mm radius)
Dimension B	0.0394 to 0.0591 in. radius (1,0 to 1,5 mm radius)	0.0394 to 0.0591 in. radius (1,0 to 1,5 mm radius)
Dimension C	2.0778 to 2.0783 in. (52,777 to 52,790 mm)	2.0700 to 2.0705 in. +(52,577 to 52,590 mm)
The crank pin must be fine-finished to higher than ———		(0.8-S)

Figure 70-90-43



Clean the crankshaft journal and crankshaft bearing.

Put a strip of press gauge (Code No.: 07909-30241) on the center of the journal **[Figure 70-90-43]**.

NOTE: Never insert the press gauge into the oil hole of the journal.

Install the main bearing case and tighten the screws to the specified torque, and remove the cases again.

Measure the amount of the flattening with the scale and get the oil clearance.

If the clearance exceeds the allowable limit, replace the crankshaft bearing.

Crankshaft Journal O.D.	Factory spec.	2.9518 - 2.9548 in. (74,977 - 74,990 mm)

Oil clearance between crankshaft journal and crankshaft bearing	Factory spec.	0.0007 - 0.0020 in. (0.018 - 0.062 mm)
	Allowable limit	0.0079 in. (0,20 mm)

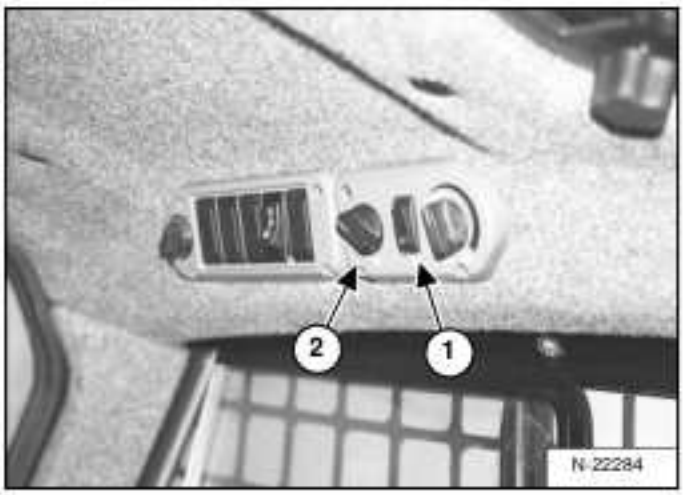
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Electrical System

Check to see if the compressor clutch is engaging.

With an operator in the loader seat and the cab door open, turn the loader key switch to RUN (Standard Panel) OR press the RUN/ENTER Button (Deluxe Panel), without starting the loader.

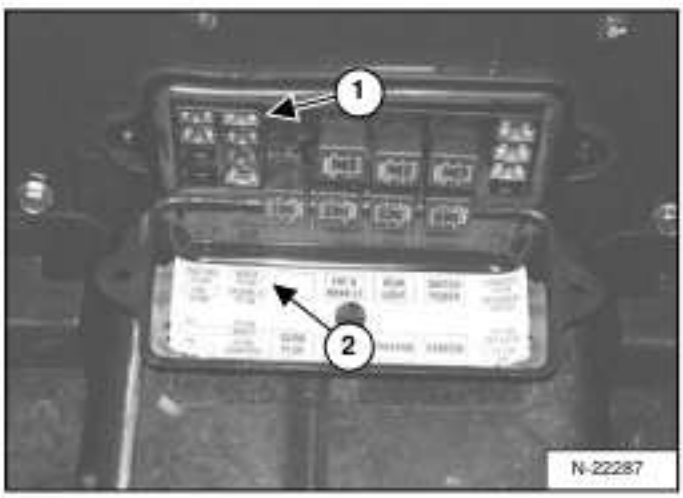
Figure 80-30-4



Push the A/C switch (Item 1) to the ON position. Turn the blower switch (Item 2) **[Figure 80-30-4]** to the first ON position.

The compressor clutch should make a click sound, which indicates the clutch is engaging.

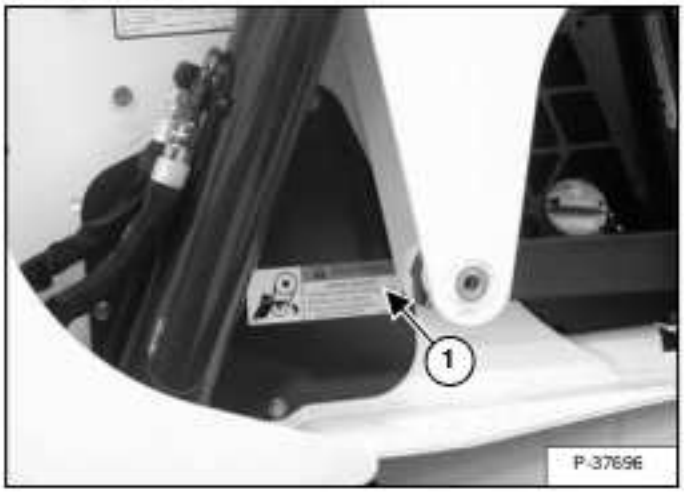
Figure 80-30-5



If the compressor clutch does not engage, check the loader fuse (Item 1) **[Figure 80-30-5]** located on the control panel in the loader cab.

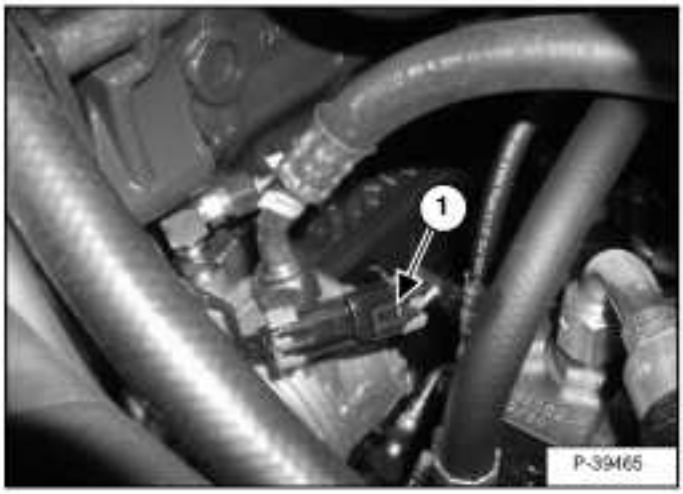
Replace the fuse if burned out.

Figure 80-30-6



Remove the right side access cover (Item 1) **[Figure 80-30-6]**.

Figure 80-30-7



Disconnect the loader harness (Item 1) **[Figure 80-30-7]** from the compressor clutch wire.

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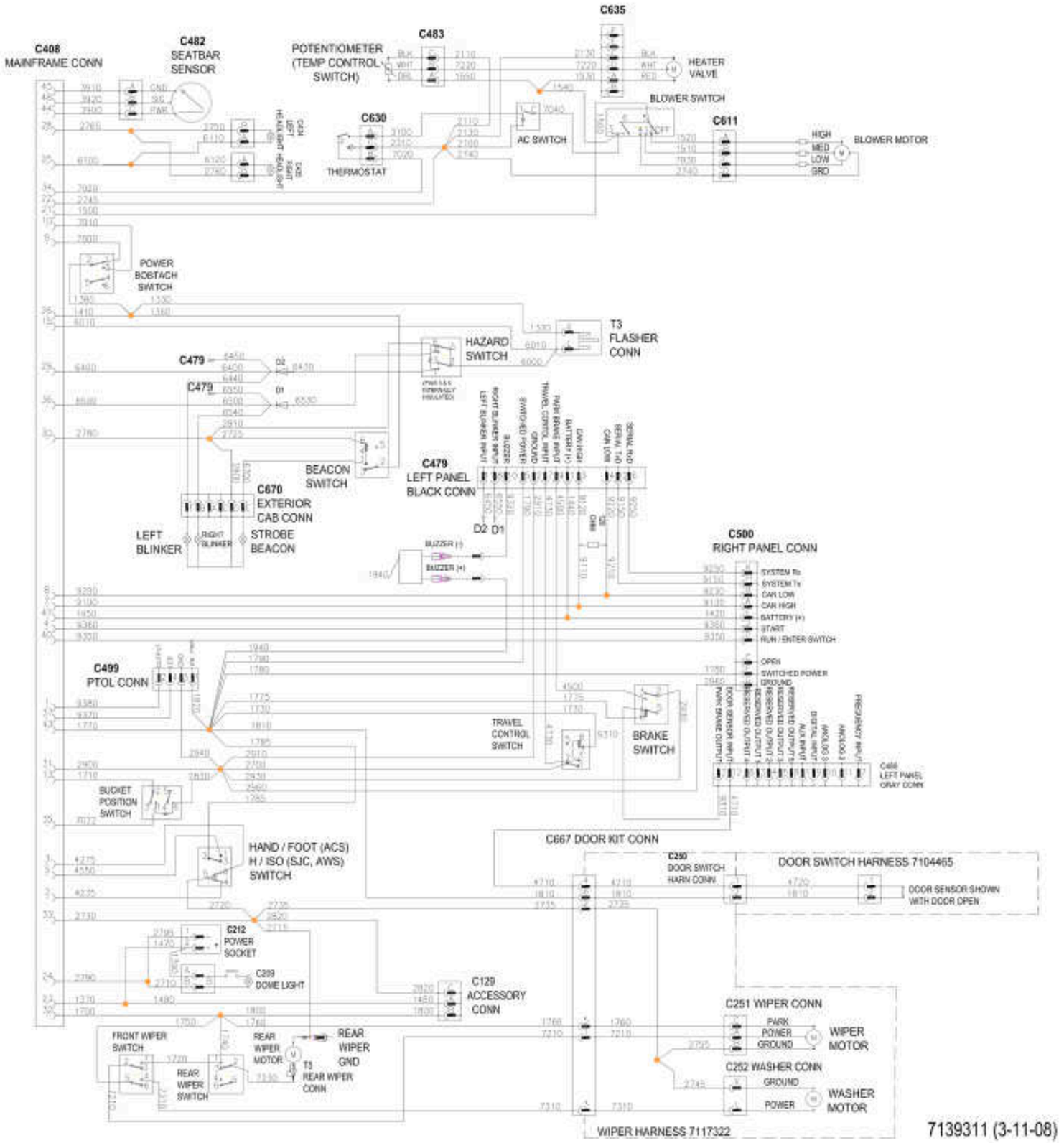
WIRING SCHEMATIC
(DELUXE CAB)
T320 (S/N A7MP60001 AND ABOVE)
(S/N AAKZ60001 AND ABOVE)

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