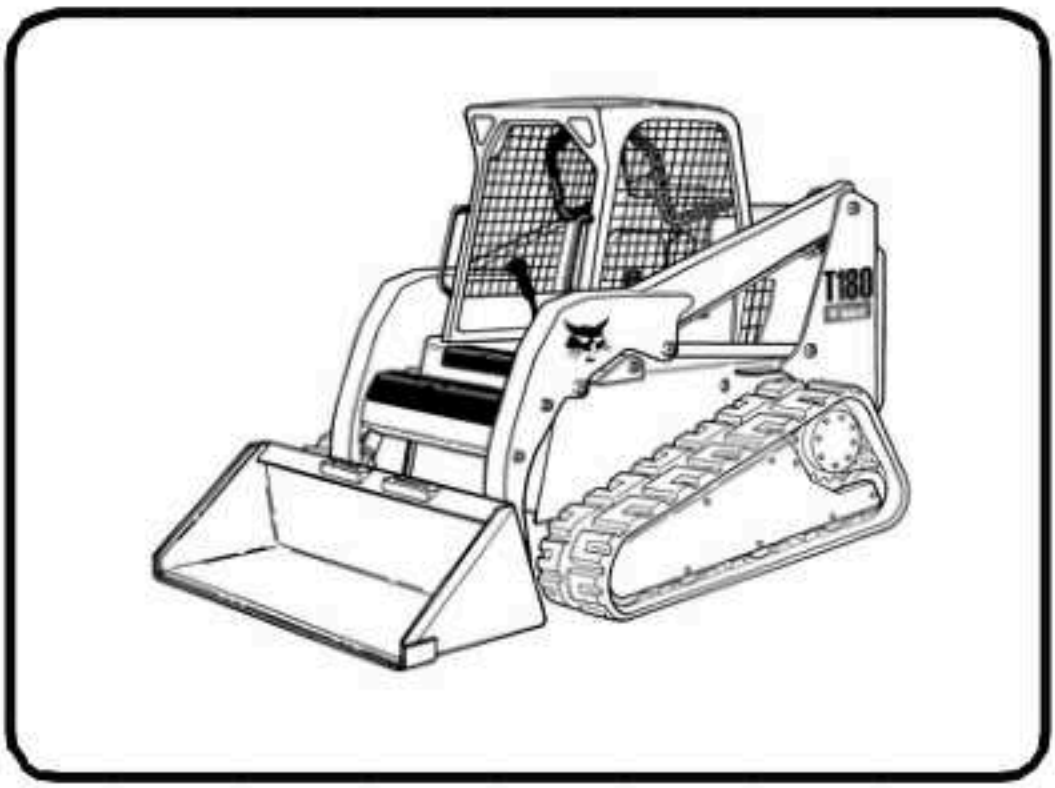
Bobcat®

Service Manual
T180 Compact Track Loader

S/N A3LL11001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

6987051 (11-10)

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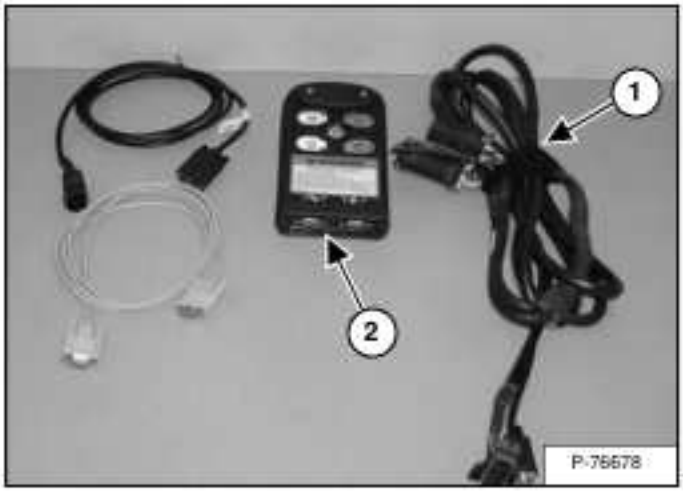
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REMOTE START TOOL (SERVICE TOOL) KIT - 7003031 (CONT'D)

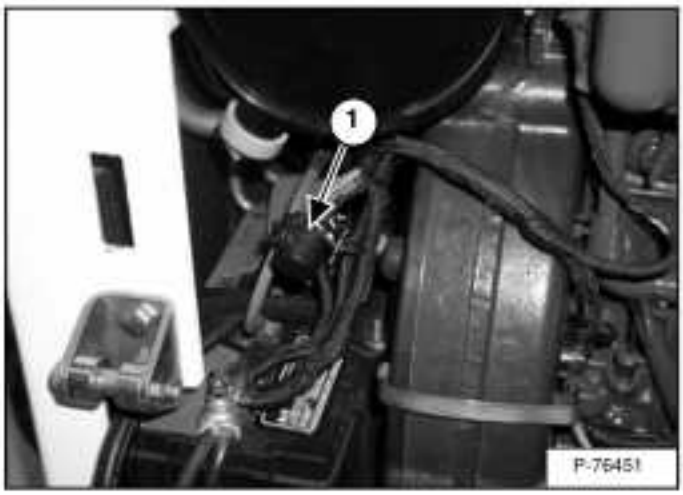
Loader Service Tool Harness - 6689747

Figure 10-61-3



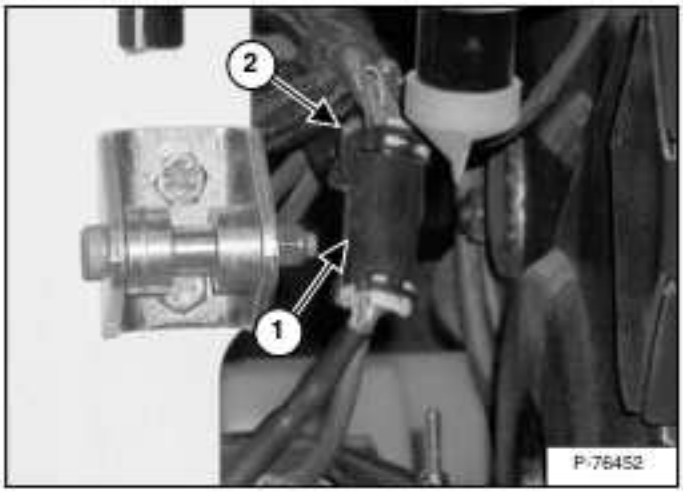
The loader service tool harness (Item 1) **[Figure 10-61-3]** is used to connect the remote start tool (service tool) (Item 2) **[Figure 10-61-3]** to the electrical system on the loader.

Figure 10-61-4



Loaders without an attachment control harness, remove the loader harness cap (Item 1) **[Figure 10-61-4]** and connect the Loader Service Tool Harness from the Remote Start Tool (Service Tool).

Figure 10-61-5



Loaders with an attachment control harness (7 pin or 14 pin), the attachment harness (Item 1) must be disconnected from the loader harness (Item 2) **[Figure 10-61-5]**.

When the remote start procedure is completed, replace the loader connector cap (Item 1) **[Figure 10-61-4]** or reconnect the attachment control harness to the loader harness **[Figure 10-61-5]**.

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Troubleshooting

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.

If a service code appears in the left instrument panel (See DIAGNOSTIC SERVICE CODES on Page 60-90-1.)

⚠ 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

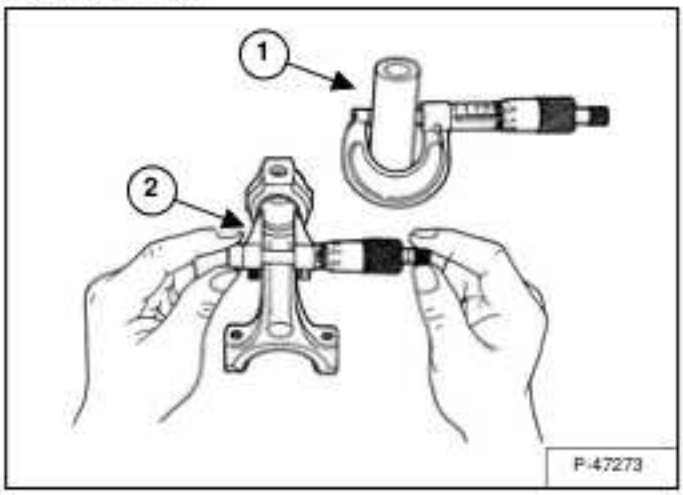
PROBLEM	CAUSE
No drive on one side, in one direction.	1, 2
No drive on one side in both directions.	2, 3, 4
The loader does not move in a straight line.	2, 3, 4, 5, 9
The hydrostatic system is overheating.	6,7,8

KEY TO CORRECT THE CAUSE
1. The hydrostatic pump replenishing valves not seating.
2. The steering linkage needs adjustment.
3. The hydrostatic pump has damage.
4. The hydrostatic motor has damage.
5. Track tension is to tight, on one side.
6. The hydrostatic fluid is not at the correct level.
7. The oil cooler has a restriction.
8. The loader is not being operated at the correct RPM.
9. The hydrostatic pump is to properly calibrated, and / or incorrect steering drift compensation setting.

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Piston And Connecting Rod - Servicing (Cont'd)

Figure 70-90-10



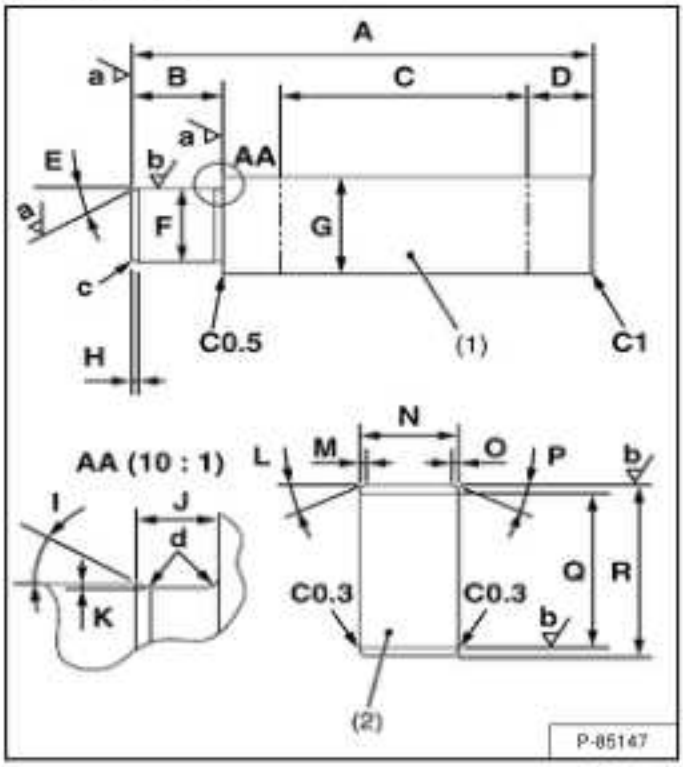
Measure the O.D. of the piston pin (Item 1) **[Figure 70-90-10]**.

Measure the I.D. of the connecting rod small end bushing (Item 2) **[Figure 70-90-10]**.

Calculate the oil clearance. If the clearance exceeds the allowable limit, replace the bushing. If it still exceeds the specifications, replace the piston pin.

Piston Pin O.D.	1.0239 - 1.0240 in. (26,006 - 26,011 mm)
Bushing I.D.	1.0246 - 1.0252 in. (26,025 - 26,040 mm)
Oil Clearance Between Piston Pin & Bushing	0.00056 - 0.0013 in. (0,014 - 0,034 mm)
Allowable Limit	0.0059 in. (0,15 mm)

Figure 70-90-11



To replace the connecting rod small end bushing, make a driver tool as shown in figure **[Figure 70-90-11]**.

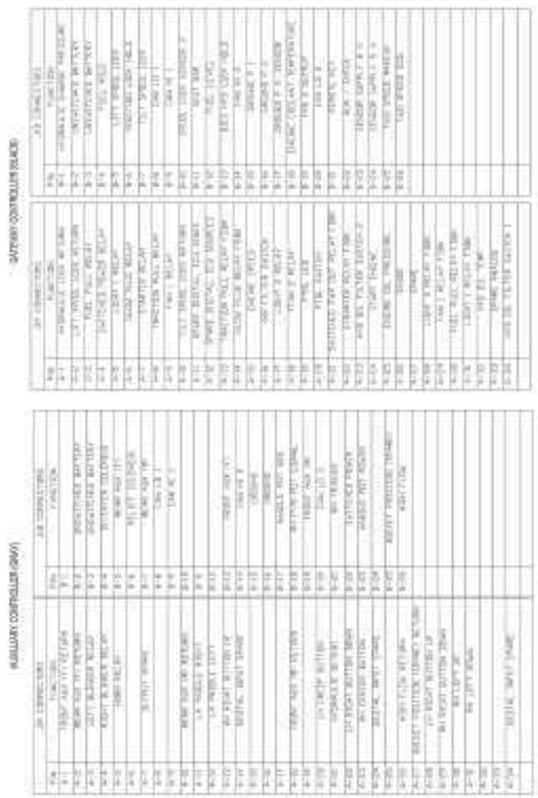
Shaft Material: SS400 (Item 1) **[Figure 70-90-11]**.
Guide Material: STKM12A (Item 2) **[Figure 70-90-11]**

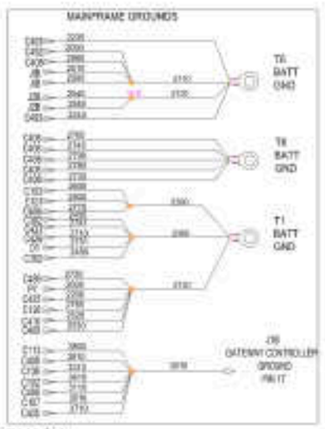
A	5.51 in. (140 mm)
B	1.07 - 1.08 in. (27,2 - 27,5 mm)
C	2.95 in. (75 mm)
D	0.787 in. (20 mm)
E	30 degrees (0,52 rad)
F	1.0224 - 1.0228 in. dia. (25,967 - 25,980 mm dia.)
G	1.34 in. dia. (34 mm dia.)
H	0.079 in. (2 mm)
I	20 degrees (0,35 rad)
J	0.098 in. (2,5 mm)
K	0.0059 - 0.0098 in. (0,15 - 0,25 mm)
L	20 degrees (0,35 rad)
M	0.039 in. (1,0 mm)
N	0.571 in. (14,5 mm)
O	0.039 in. (1,0 mm)
P	20 degrees (0,35 rad)
Q	1.0237 - 1.0244 in. (26 - 26,021 mm)
R	1.1378 - 1.1397 in. (28,9 - 28,950 mm)
a	Ra=3.2a
b	Ra=1.6a
c	0.039 in. radius (1 mm radius)
d	0.016 in. radius (0,40 mm radius)
C0.3	Chamfer 0.012 in. (0,3 mm)
C0.5	Chamfer 0.020 in. (0,5 mm)
C1	Chamfer 0.039 in. (1 mm)

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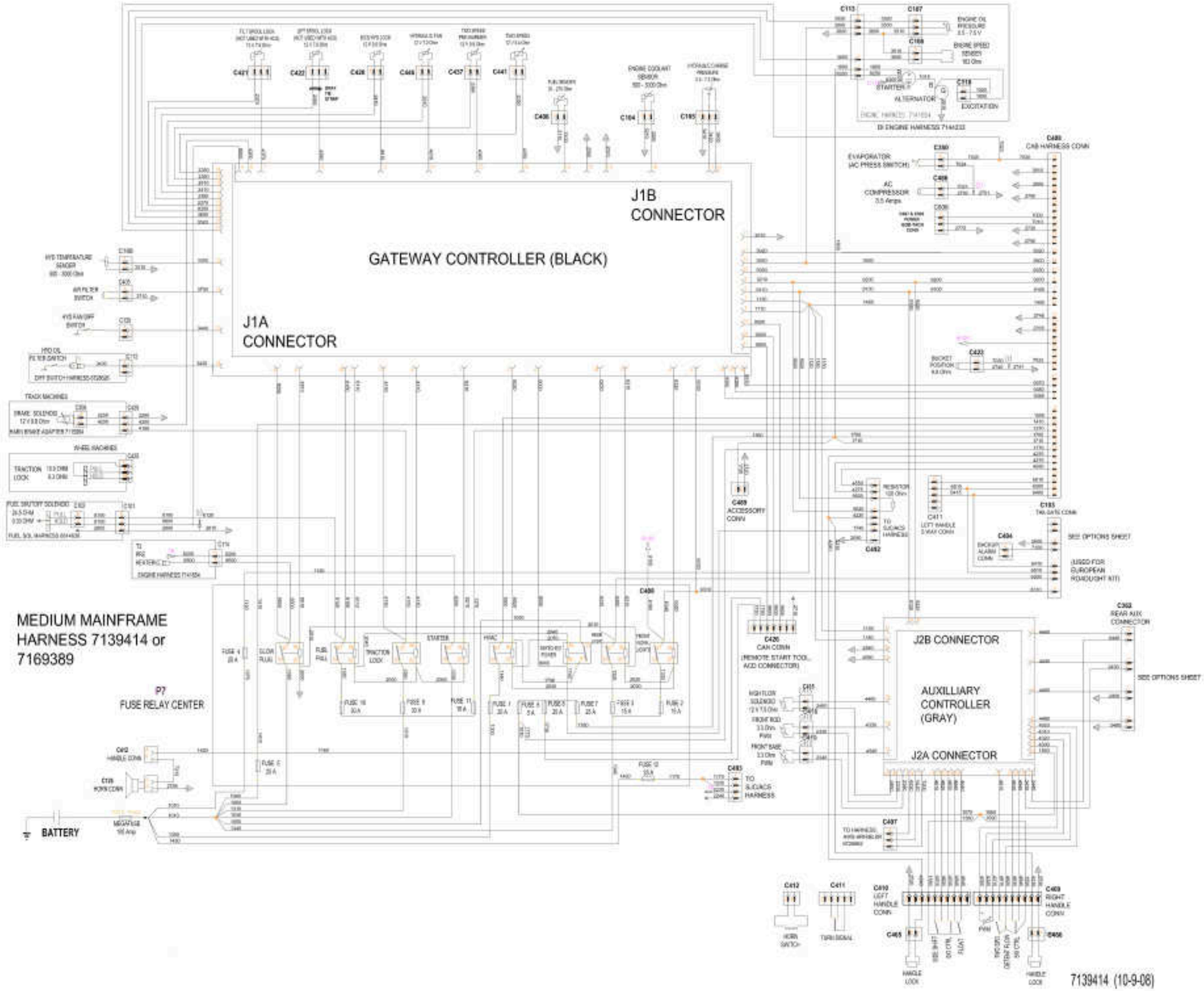
WIRING SCHEMATIC
MAINFRAME
T180 (S/N A3LL11001 AND ABOVE)

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