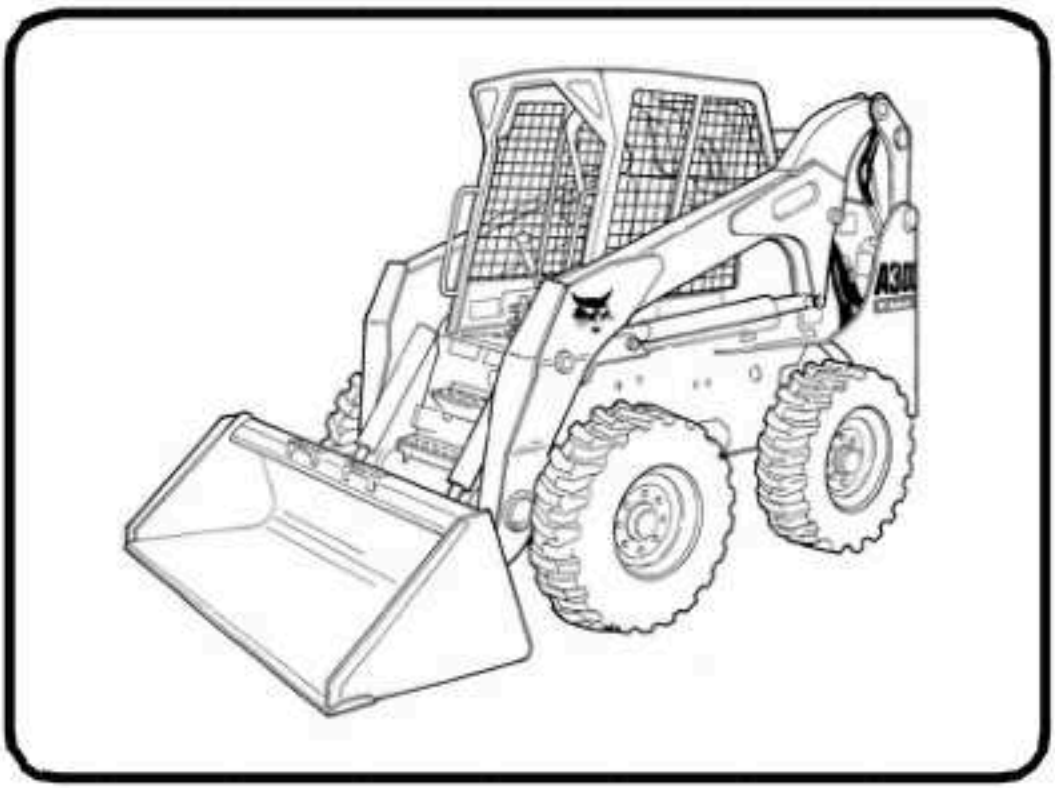
Bobcat®

Service Manual
A300 All-Wheel Steer

S/N 539911001 & Above
S/N 540011001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6904172 (3-09)

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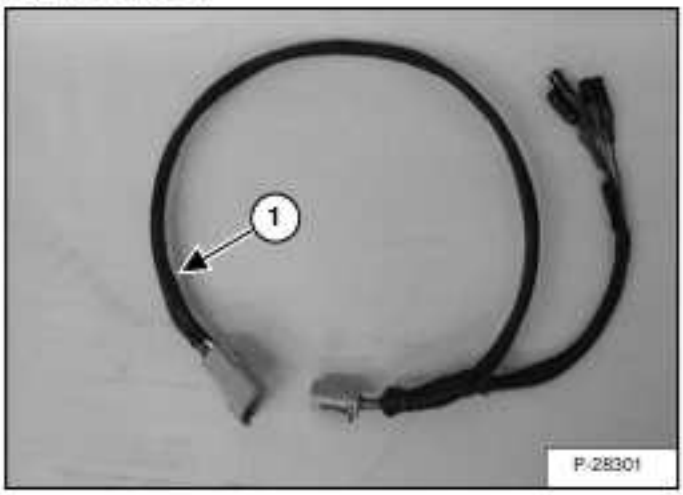
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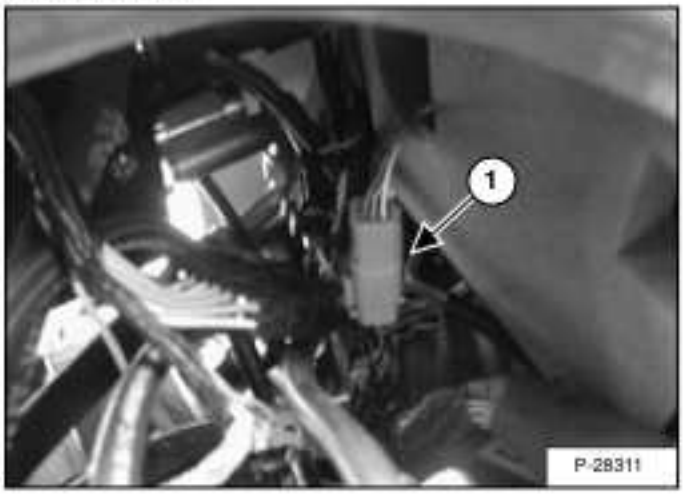
Figure 50-100-1



The tools listed will be needed to do the following procedure:

MEL1608-Joystick Test Harness **[Figure 50-100-1]**
MEL1563 or 6689779-Remote Start Tool
Multimeter

Figure 50-100-2



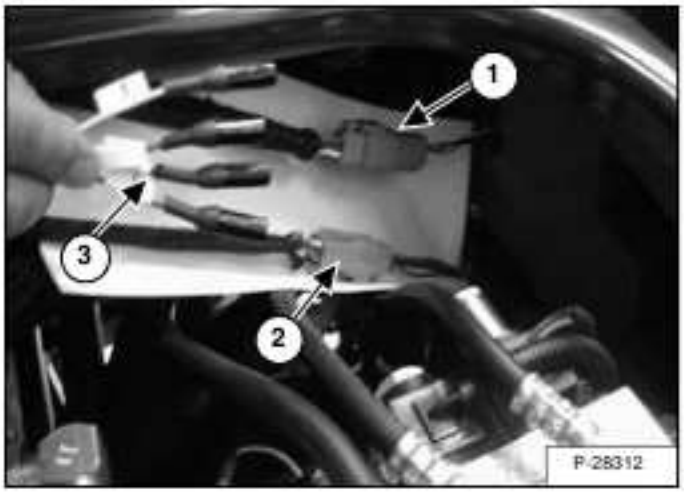
Raise the lift arms and install an approved lift arm support device. (See Installing on Page 10-20-1.)

Raise the operator cab. (See Raising on Page 10-30-2.)

Connect the remote start tool to the loader. (See REMOTE START TOOL KIT-MEL1563 on Page 10-60-1.)

At the back side of the control panel, locate the left joystick wire connector (Item 1) **[Figure 50-100-2]**.

Figure 50-100-3



Disconnect the joystick harness connector (Item 1) from the loader wiring harness (Item 2) **[Figure 50-100-3]**.

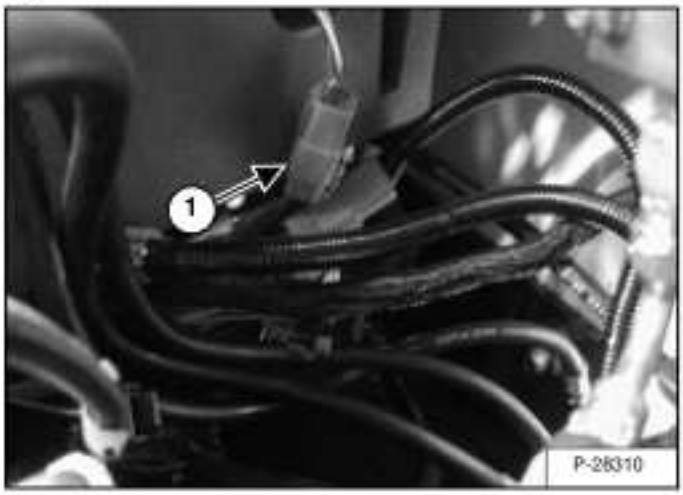
Install the test harness (Item 3) **[Figure 50-100-3]** between the two connectors.

Turn the remote start key to ON position without starting the loader.

Check the voltage between pin 3 and pin 5 on the joystick test harness (Item 3) **[Figure 50-100-3]**.

The voltage should be between 2.45 and 2.55 volts.

Figure 50-100-4



Repeat the procedure at the right joystick wiring harness connector (Item 1) **[Figure 50-100-4]**. (If needed.)

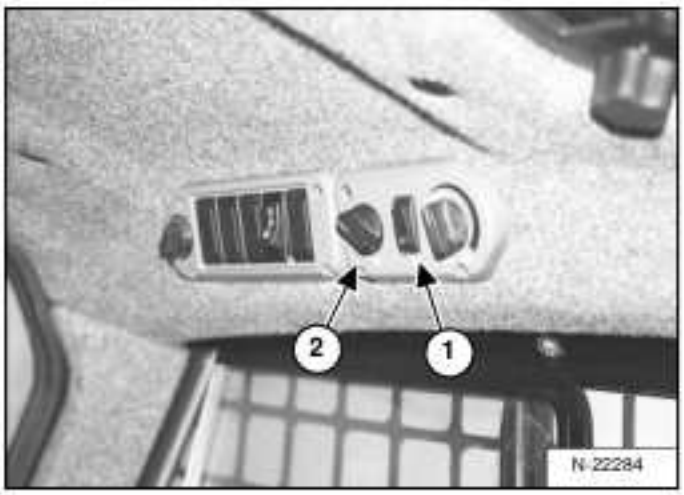
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Electrical System

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.

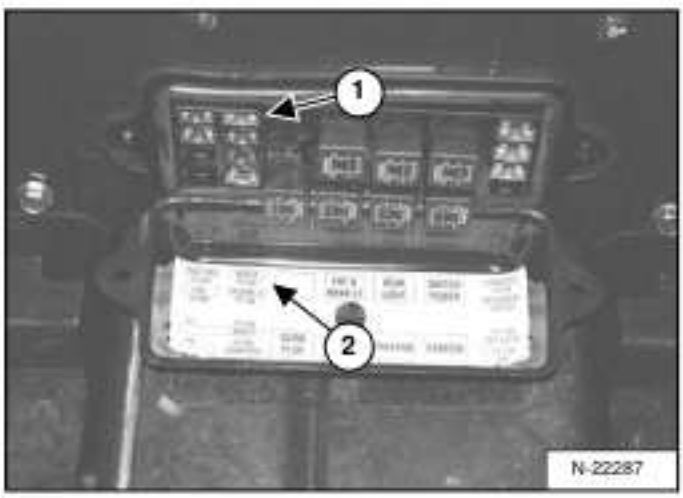
Figure 80-30-4



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.

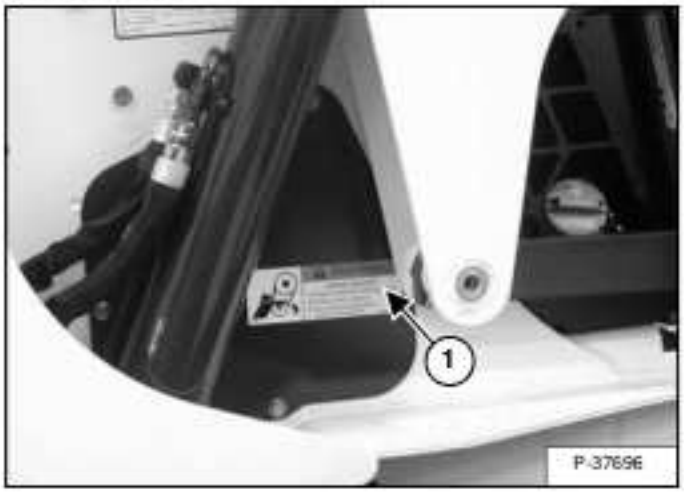
Figure 80-30-5



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.

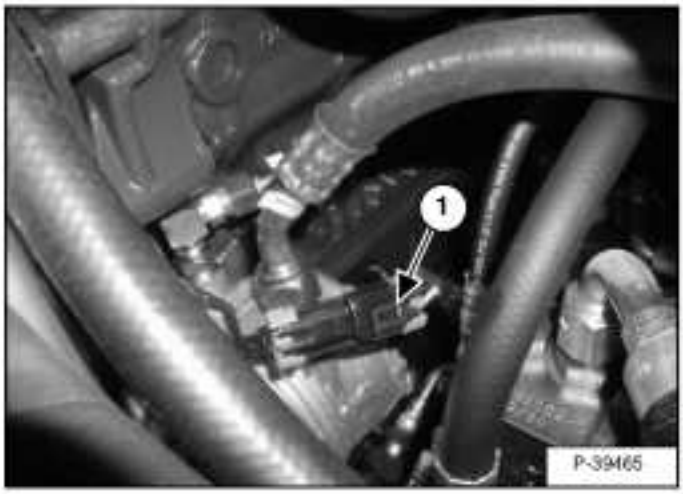
Replace the fuse if burned out.

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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(A300) LOADER SPECIFICATIONS (CONT'D)

Drive System

Main Drive	Fully hydrostatic, 4-wheel drive
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors
Final Drive	Pre-stressed #100 HSOC endless roller chain (no master link) and sprockets in sealed chaincase with oil lubrication (Chains do not require periodic adjustments) Two chains per side with no idler sprocket
Engine to Wheel Reduction	29.9:1
Axle Size	2.76 in. (70,1 mm), Heat treated
Wheel Bolts	Eight 9/16" Wheel bolts fixed to axle hubs

Capacities

Fuel	23 Gal. (87,1 L)
Engine Lubrication & Filter	12 qt. (11,4 L)
Engine Cooling System	4.5 Gal. (17,1 L)
Hydraulic/Hydrostatic Reservoir	4.7 Gal. (17,8 L)
Hydraulic/Hydrostatic System	13 Gal. (49,2 L)
Chaincase Reservoir	11.0 Gal. (41,6 L)

Tires

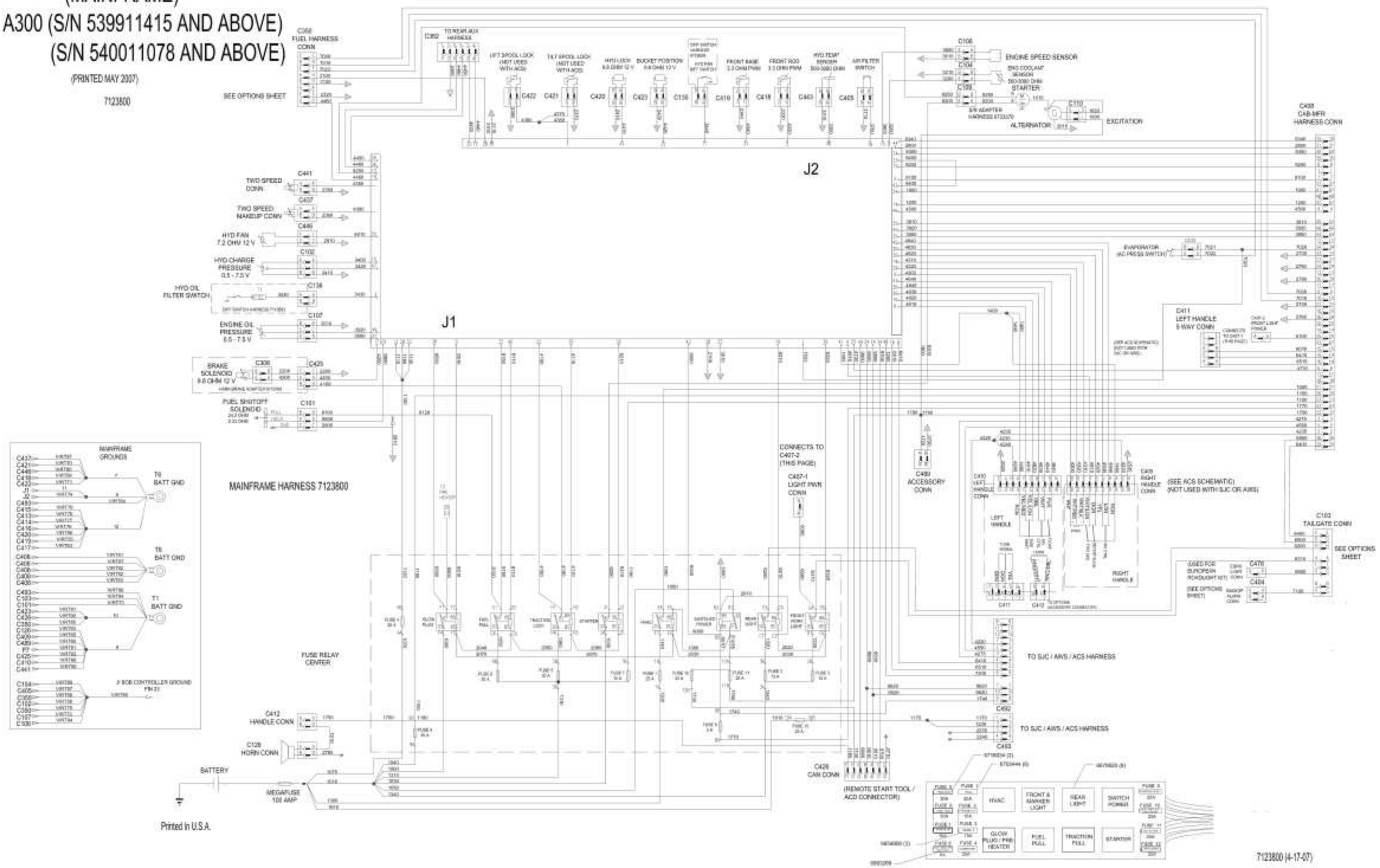
Standard	12 - 16.5
Severe Duty	12 X 16.5
Super Float	33.00-15.5 X 16.5
Sand and Turf	33.00-15.5 X 16.5
Recommended Pressure	Inflate tires to MAXIMUM pressure shown on the side wall of the tire. DO NOT mix brands of tires used on the same loader.

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WIRING SCHEMATIC
(MAINFRAME)
A300 (S/N 539911415 AND ABOVE)
(S/N 540011078 AND ABOVE)

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