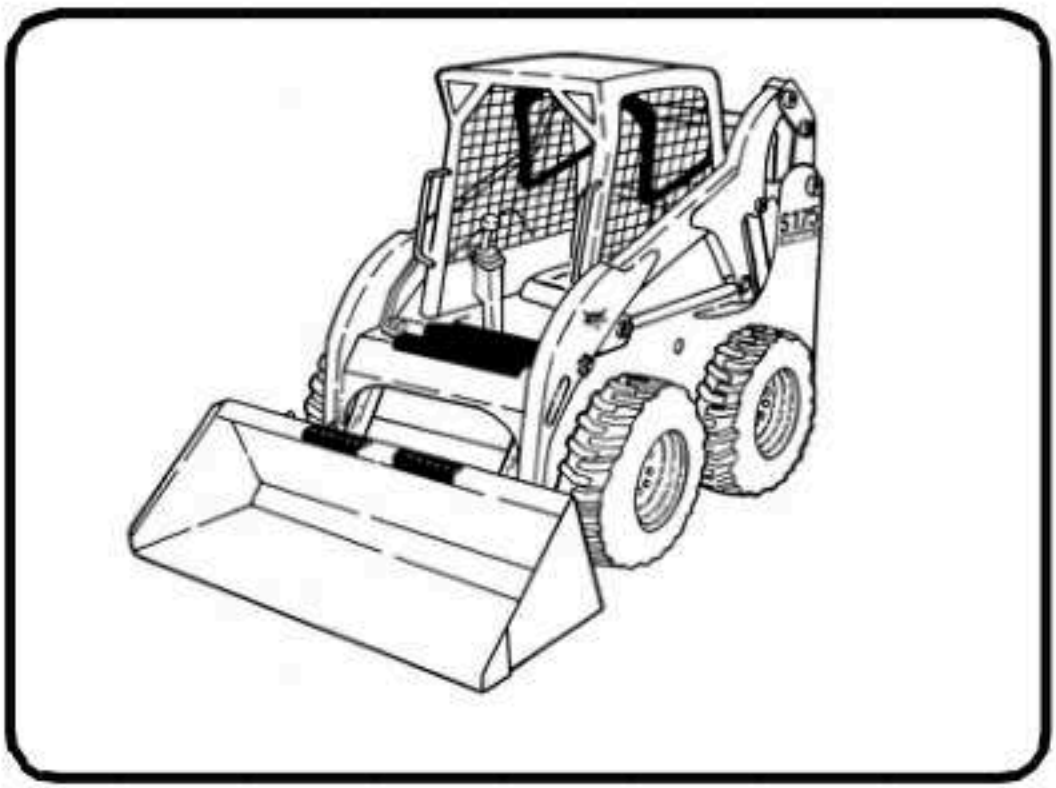
Bobcat®

Service Manual
S175 Skid-Steer Loader

S/N A3L520001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

6987035 (11-10)

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Switch Handle Installation (Cont'd)

Figure 60-130-17

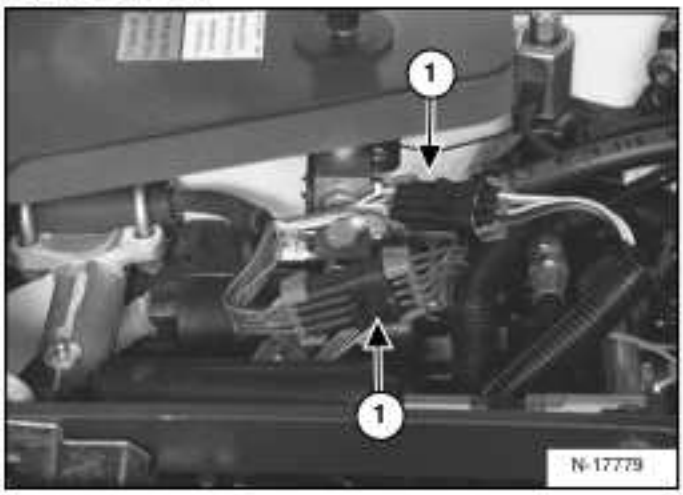
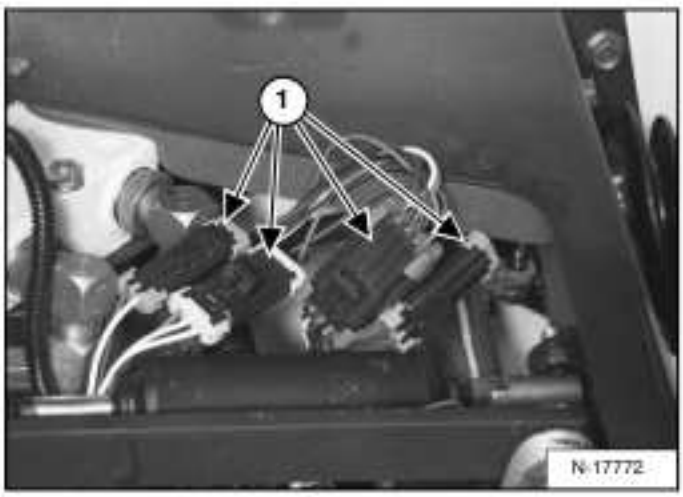
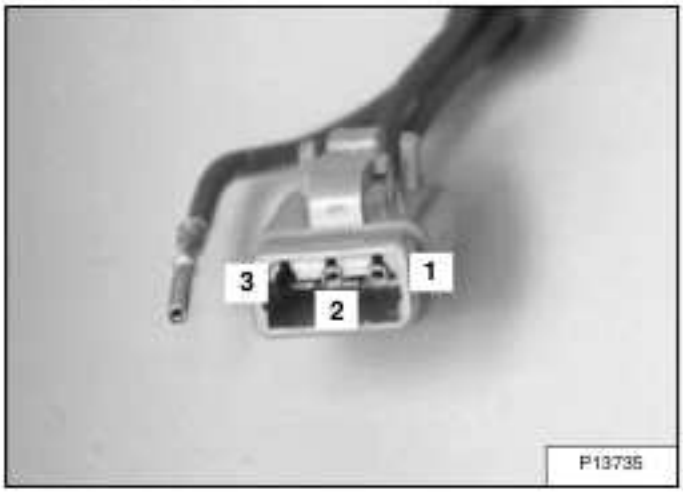


Figure 60-130-18



Connect the handle harness connectors (Item 1) **[Figure 60-130-17]** and **[Figure 60-130-18]** to the loader harness connectors.

Figure 60-130-19

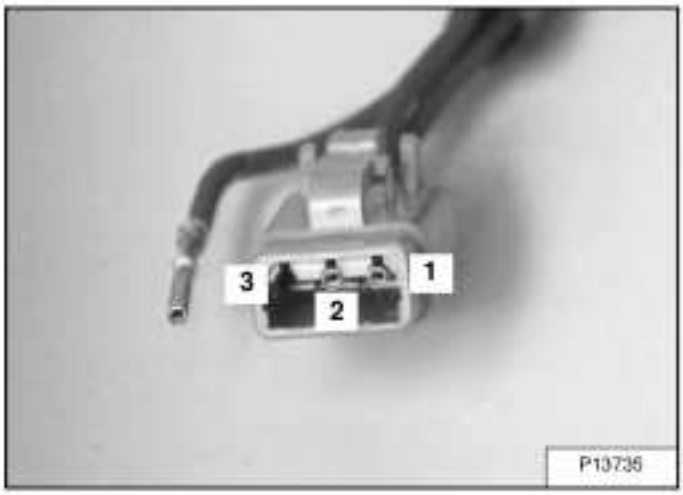


Install the wires into the connectors as listed below:

Left and Right Control Lever Switch Handle **[Figure 60-130-19]**

1-Terminal - Red / White
2-Terminal - Black / White
3-Terminal - Purple / White

Figure 60-130-20



Left and Right Control Lever Switch Handle **[Figure 60-130-20]**

1-Terminal - Yellow / Red
2-Terminal - Open
3-Terminal - Orange / Black

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Troubleshooting (Joystick)

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.

⚠ WARNING

AVOID INJURY OR DEATH

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0807

PROBLEM	CAUSE
Back-up alarm will not sound when the operator moves joystick(s) in the reverse position.	1, 2, 3, 4, 5, 6
Back-up alarm sounds when joystick(s) in neutral / forward position.	5, 6

KEY TO CORRECT THE CAUSE
1. The ground connection is not making a good contact.
2. The alarm is damaged.
3. The alarm wires are disconnected.
4. Check the fuses.
5. The wiring is damaged.
6. The joystick controller is not working correctly.

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(S175) LOADER SPECIFICATIONS (CONT'D)

Performance

Rated Operating Capacity (ISO)	1750 lb. (794 kg)
with 200 Pound Frame Mounted Counterweight Kit	1900 lb. (862 kg)
Tipping Load (ISO)	4126 lb. (1872 kg)
Operating Weight	6290 lb. (2853 kg)
Travel Speed - Single Speed Loader - Two-Speed Loader (Opt.) Low/High	 7.3 mph (11,8 km/hr.) 7.5 mph (12,1 km/hr.) / 11.1 mph (17,9 km/hr.)
SAE Breakout Force - Lift	3600 lb. (1633 kg)
SAE Breakout Force - Tilt	3550 lb. (1610 kg)
Push Force	4300 lb. (1950 kg)

Engine

Make / Model	Kubota / V2403-M-DI-E3B Interim Tier IV
Fuel / Cooling	Diesel / Liquid
Horsepower (SAE Net)	46.1 HP (34,4 kW) @ 2700 RPM
Torque (SAE Net)	109.6 ft.-lb. (148,6 N•m) @ 1600 RPM
Number of Cylinders	4
Displacement	148.5 cu. in. (2,433 L)
Bore / Stroke	3.425 in. / 4.03 in. (87 mm / 102,4 mm)
Lubrication	Gear Pump Pressure system with Filter
Crankcase Ventilation	Closed Breathing
Air Cleaner	Dry replaceable paper cartridge with separate safety element.
Ignition	Diesel Compression
Air Induction	Naturally Aspirated
Starting Aid	Glow Plugs - Automatically activated as needed in RUN position.
Low Idle	1075 - 1225 RPM
High Idle	2760 - 2900 RPM

Drive System

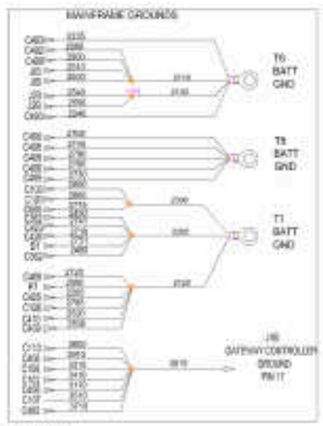
Main Drive	Hydrostatic 4-wheel drive
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors.
Final Drive Chains	Prestressed #80 HSOC endless roller chain (no master link) and sprockets in sealed chaincase with oil lubrication (No adjustment need ed). Two chains per side with no idler sprocket.
Total Engine to Wheel Reduction	33:1
Axle Size	2.00 in. (50,8 mm), heat treated
Wheel Bolts	Eight 9/16 in Wheel Bolts fixed to axle hubs

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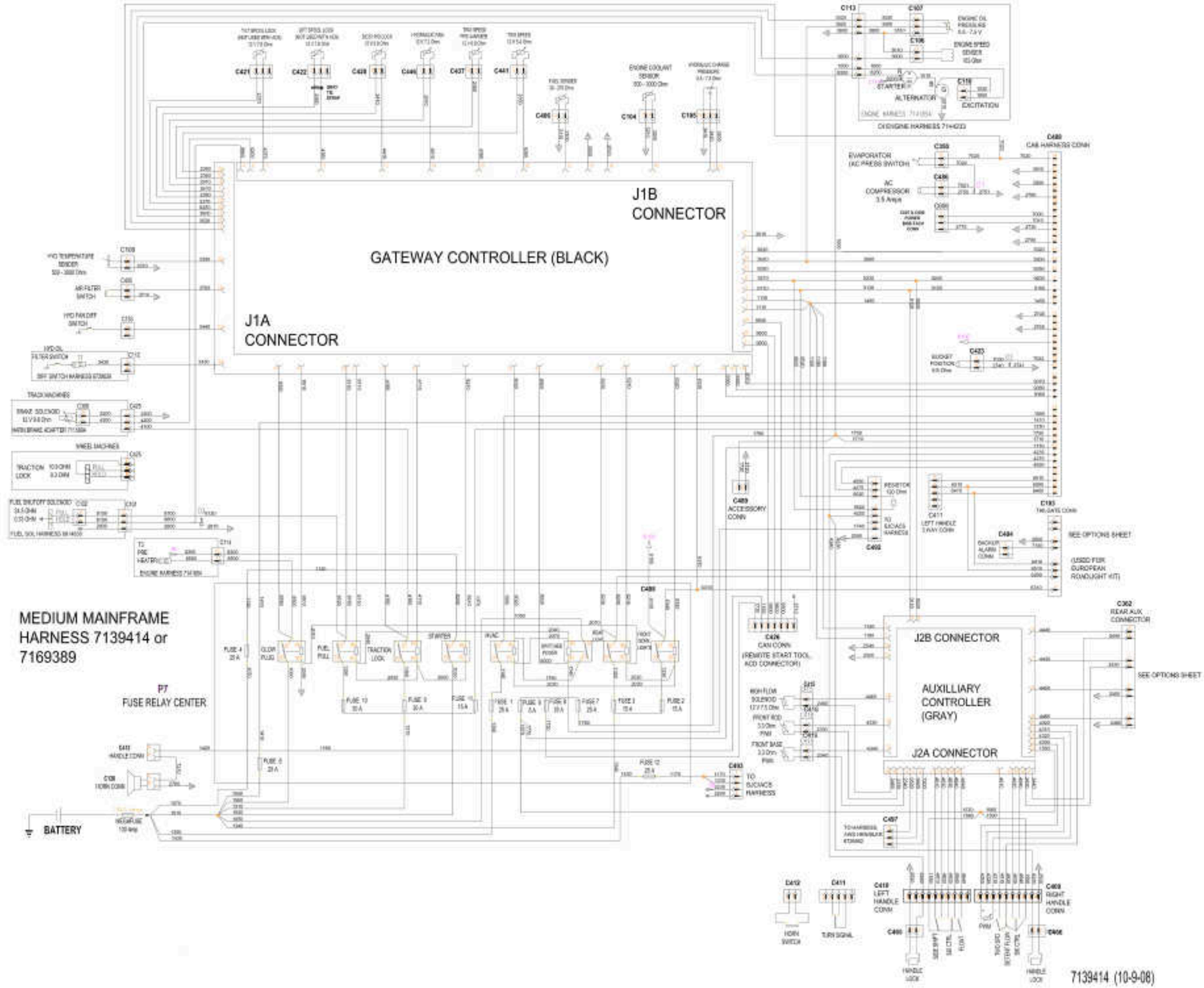
WIRING SCHEMATIC
MAINFRAME
S175 (S/N A3L520001 AND ABOVE)

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