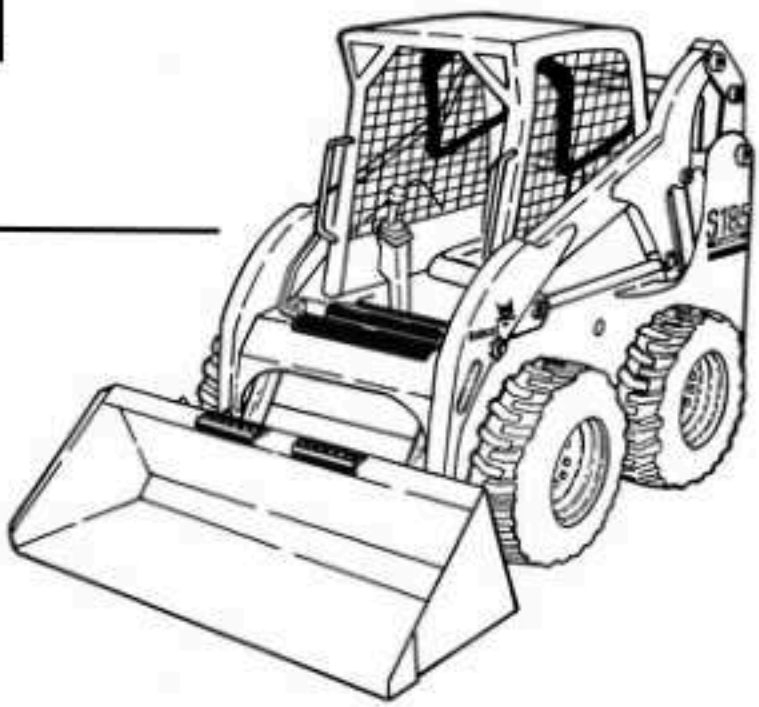
S175
S185
TURBO

INCLUDES HIGH FLOW

Bobcat®

Service Manual

S/N 525011001 & Above
S/N 525111001 & Above
S/N 525211001 & Above
S/N 525311001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6902732 (7-09)

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Switch Handle Installation (Cont'd)

Figure 60-120-25

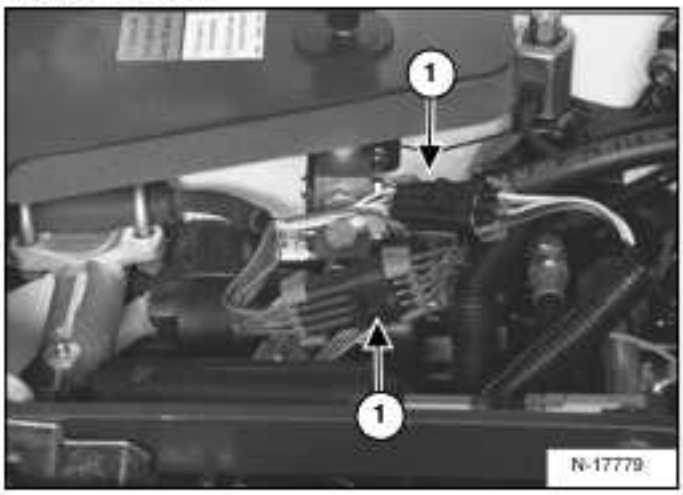
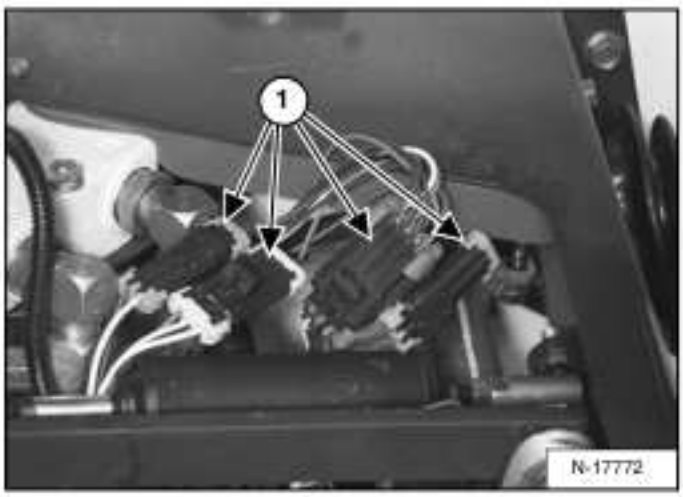
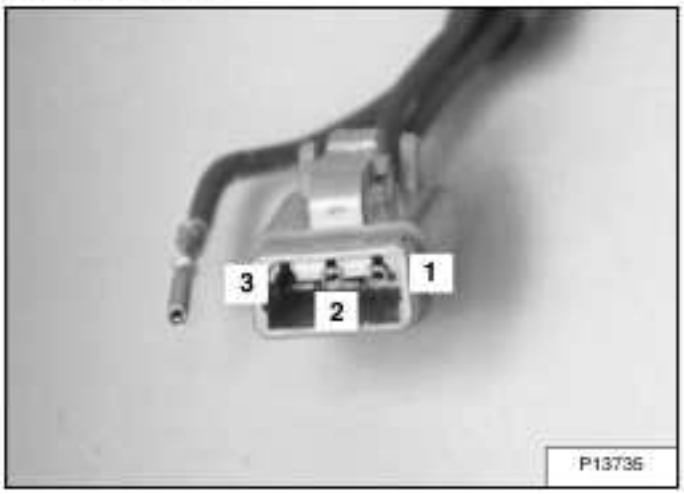


Figure 60-120-26



Connect the handle harness connectors (Item 1) **[Figure 60-120-25]** & **[Figure 60-120-26]** to the loader harness connectors.

Figure 60-120-27

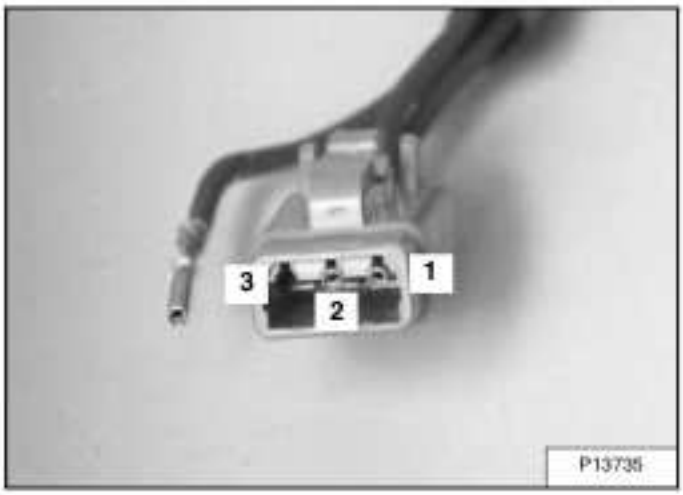


Install the wires into the connectors as listed below:

Left and Right Control Lever Switch Handle **[Figure 60-120-27]**

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

Figure 60-120-28



Left and Right Control Lever Switch Handle **[Figure 60-120-28]**

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

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BASIC TROUBLESHOOTING

Poor A/C Performance

Figure 80-50-1

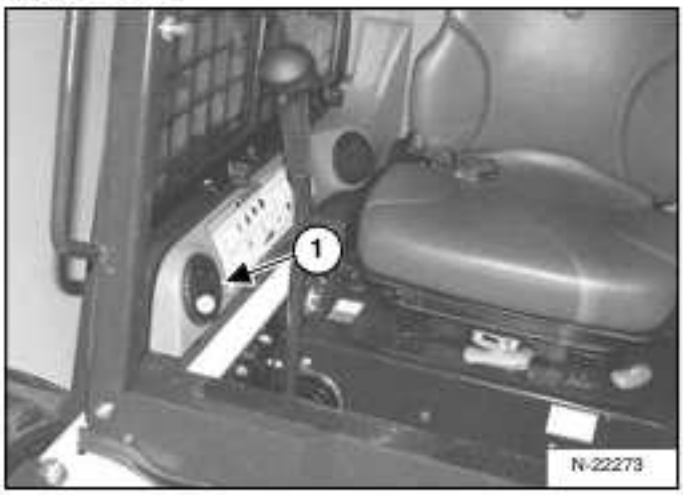
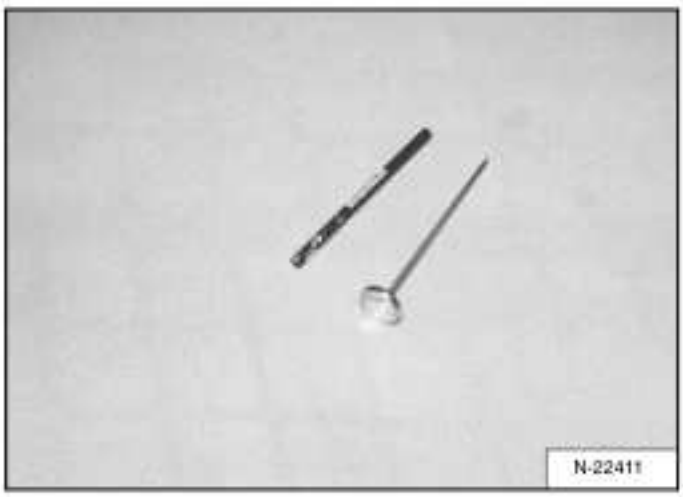


Figure 80-50-2



Start the loader, engage the parking brake. Engage the A/C system with the blower fan on high. Run the loader at full RPM for approximately 15 minutes, with the loader cab door closed.

Check the temperature at the louvers (Item 1) **[Figure 80-50-1]** with a thermometer **[Figure 80-50-2]**.

The louver temperature should be between 36° - 53° F (2,2° - 11,6° C) depending on the amount of humidity in the air.

If louver temperature is too high, (See SYSTEM TROUBLESHOOTING CHART on Page 80-70-1.)

Check the blower fan for proper operation or noise, and replace if necessary. (See HEATER/AC FAN on Page 80-210-1.)

Check the belt tension on the A/C compressor. ((See COMPRESSOR on Page 80-110-1.)

Check the A/C condenser for dirt or mud, and clean if necessary. (See CONDENSER on Page 80-120-1.)

Check the A/C evaporator coil for dirt or mud, and clean if necessary. (See EVAPORATOR on Page 80-190-1.)

Inspect the sight glass located on the receiver/drier for air bubbles. (See RECEIVER/DRIER on Page 80-130-1.)

Check the engine coolant to see if it is bypassing the heater valve. (See HEATER VALVE on Page 80-210-1.)

⚠ WARNING

Never work on a machine with the lift arms up unless the lift arms are secured by an approved lift arm support device. Failure to use an approved lift arm support device can allow the lift arms or attachment to fall and cause injury or death.

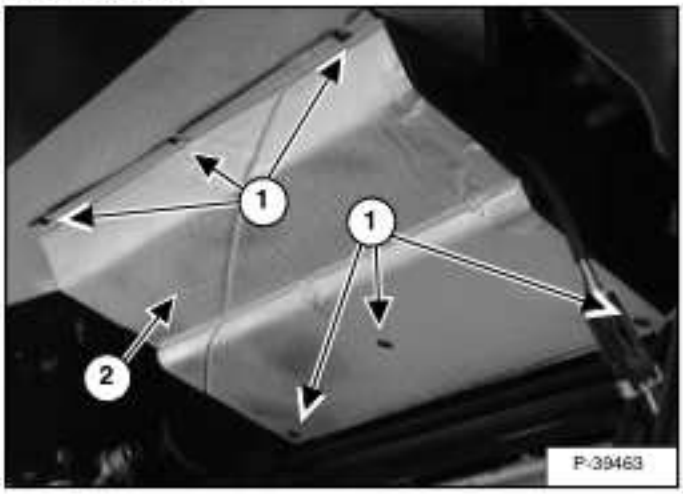
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Cleaning The A/C Evaporator Coil & Heater Coil

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

Raise the operator cab. (See Raising The Operator Cab on Page 10-30-1.)

Figure 80-50-3



At the rear of the cab, Remove the six mounting screws (Item 1) **[Figure 80-50-3]**.

Remove the access cover (Item 2) **[Figure 80-50-3]** from the loader.

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Hydraulic System

	S175	S185
Pump	Engine Driven, Gear Type	
Pump Capacity	16.9 GPM (64 L/min.) at High Idle	
Charge Pump Capacity (SJC)	12.8 GPM (48,5 L/min.) at High Idle	
High Flow (Option)	26.4 GPM (99,9 L/min.) at High Idle	
System Relief at Quick Couplers	3300 PSI (206 bar)	
Filter	Full flow replaceable, 3 micron synthetic media element	
Hydraulic Cylinders	Doubleacting; Tilt cylinders have cushioning feature on dump	
Bore Diameter: Lift Cylinder (2)	2.50 (63,5)	
Tilt Cylinder (2)	2.75 (69,9)	
Rod Diameter: Lift Cylinder (2)	1.50 (38,1)	
Tilt Cylinder (2)	1.375 (34,9)	
Stroke: Lift Cylinder (2)	23.67 (601,2)	
Tilt Cylinder (2)	13.19 (335,0)	
Control Valve	3-spool, open center type w/float detent on lift and electrically controlled auxiliary spool.	
Fluid Lines	SAE standard tubelines, hoses & fittings	
Fluid Type	BOBCAT FLUID, Hydraulic/Hydrostatic 6903117 - (Two - 2.5 Gal. containers) 6903118 - (5 Gal.) 6903119 - (55 Gal.)	
Hydraulic Function Time: Raise Lift Arms	3.49 Seconds	
Lower Lift Arms	2.54 Seconds	
Bucket Dump	2.28 Seconds	
Bucket Rollback	1.78 Seconds	

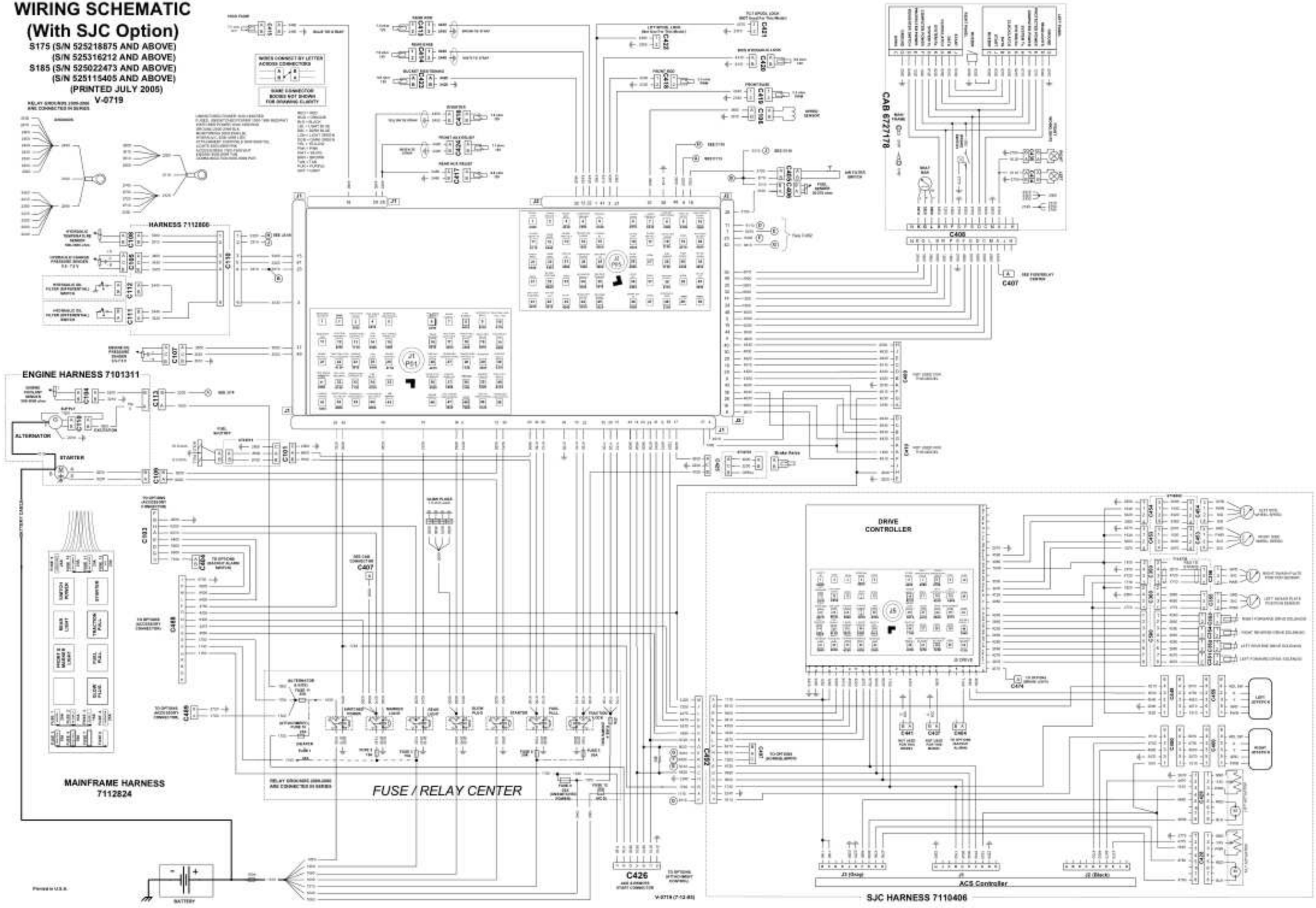
Electrical

Alternator	Belt driven, 90 amp., open
Battery	12 volts, 600 cold cranking amps. @ 0° F (-18° C); 115 minute reserve capacity at 25 amps.
Starter	12 volts, Gear reduction type, 3.62 HP (2,7Kw)
Instrumentation	**Gauges:** Hourmeter, Fuel, Engine Coolant Temperature. **Warning lights:** Fuel Level, Glow Plugs, System Voltage, Seat Belt, Engine Coolant Temperature, Engine Oil Pressure, Hydrostatic Charge Pressure, Hydraulic Oil Temperature, Engine Air Filter & Hydraulic Filter. **Other:** Audible Alarm, BICS Function, Lights, Opt./Accessory Switches. **Optional Deluxe Instrumentation:** *Same gauges and warning lights as standard instrumentation. *Additional bar-type gauges for: Engine Oil Pressure, System Voltage, Hydrostatic Charge Pressure and Hydraulic Oil Temperature. *Additional Features Incl.: Keyless Start, Clock, Job Clock, Help Screens, Diagnostic Capability, Automatic Shutdown Function.

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WIRING SCHEMATIC
(With SJC Option)

S175 (S/N 525218875 AND ABOVE)
(S/N 525316212 AND ABOVE)
S185 (S/N 525022473 AND ABOVE)
(S/N 525115405 AND ABOVE)
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