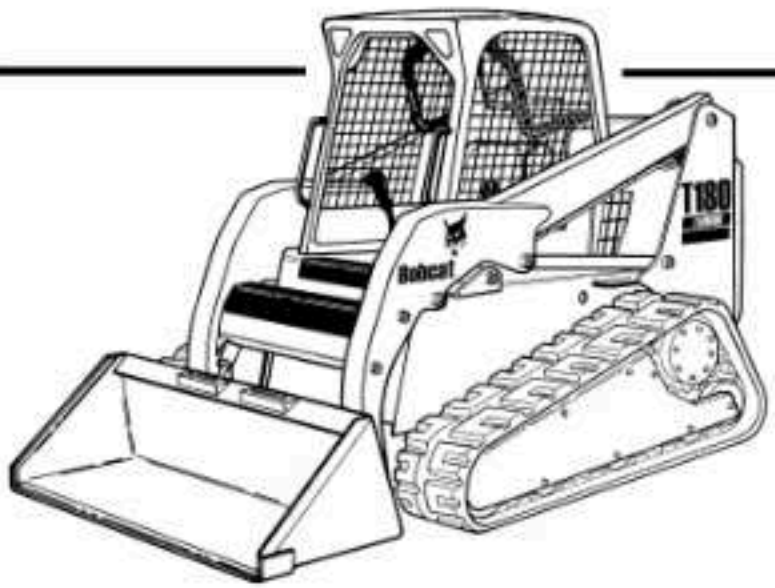
T180 TURBO

T180 TURBO HIGH FLOW

Bobcat®

Service Manual

(S/N 524211001 & Above)
(S/N 524311001 & Above)
(S/N 527511001 & Above)
(S/N 527611001 & Above)



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

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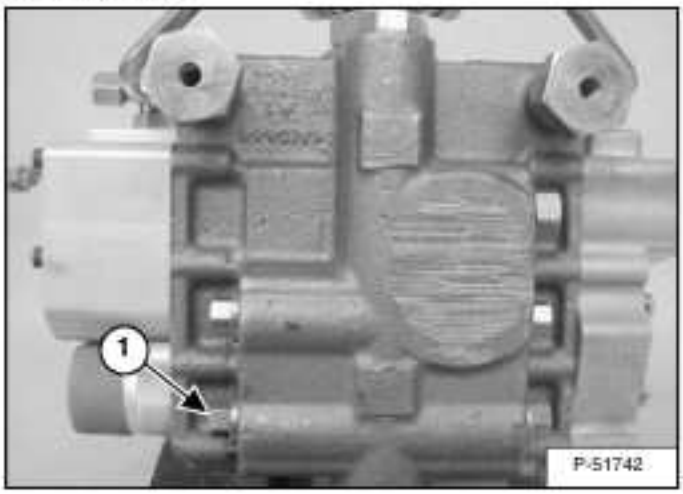
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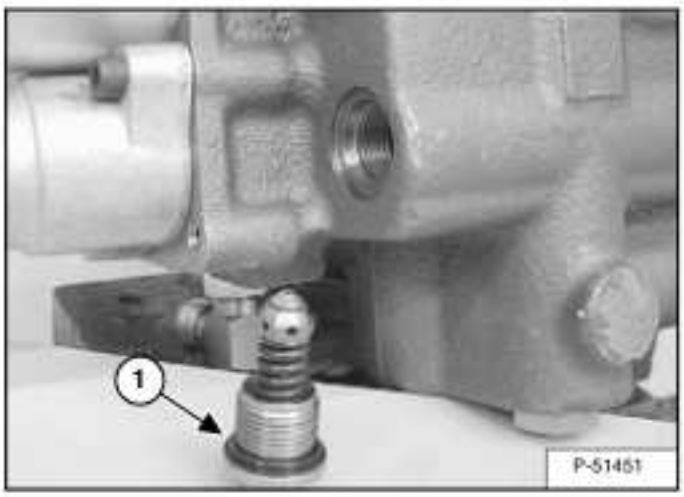
Port Relief/Anti-Cavitation Valve (Lift, Base End)

Figure 20-43-38



Loosen the lift circuit port relief/anti cavitation valve (Item 1) **[Figure 20-43-38]**.

Figure 20-43-39

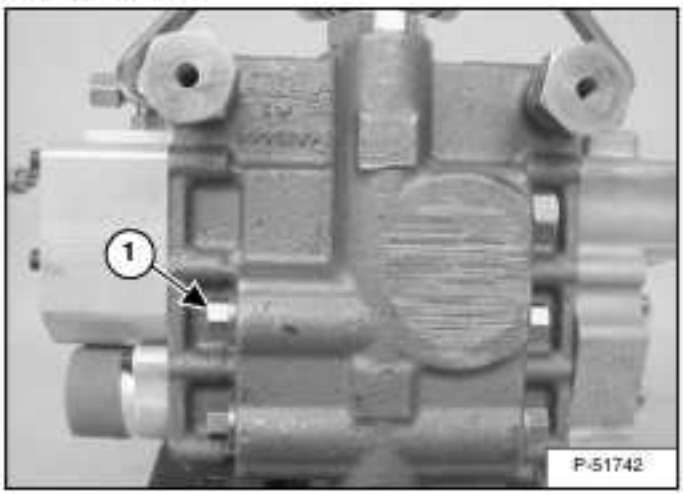


Replace the O-ring (Item 1) **[Figure 20-43-39]** before installation.

Installation: Lightly lubricate with oil and tighten to 38 - 45 ft.-lb. (52 - 61 N•m) torque.

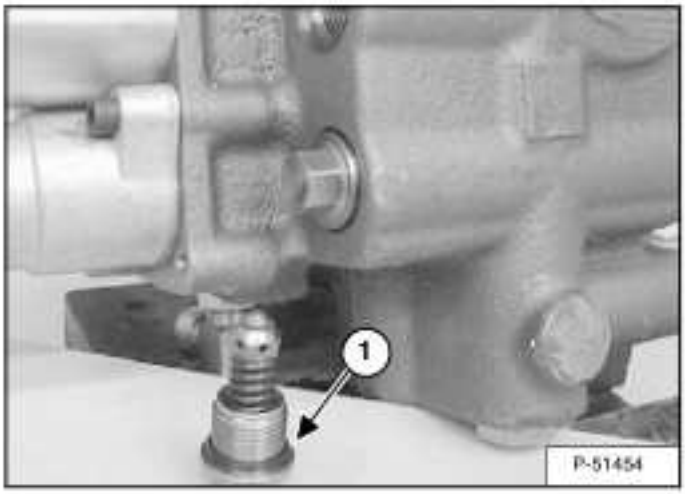
Port Relief/Anti-Cavitation Valve (Tilt, Base End)

Figure 20-43-40



Remove the tilt port relief/anti cavitation valve (Item 1) **[Figure 20-43-40]** from the base end of the tilt section.

Figure 20-43-41



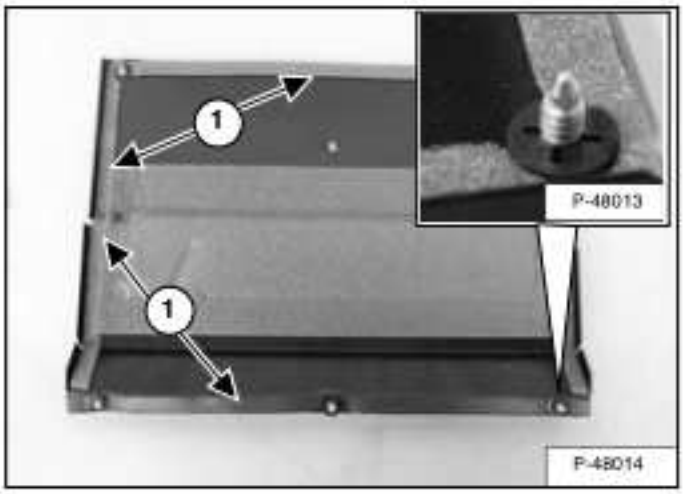
Replace the O-ring (Item 1) **[Figure 20-43-41]** before installation.

Installation: Lightly lubricate with oil and tighten to 38 - 45 ft.-lb. (52 - 61 N•m) torque.

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Cleaning The A/C Evaporator Coil & Heater Coil (Cont'd)

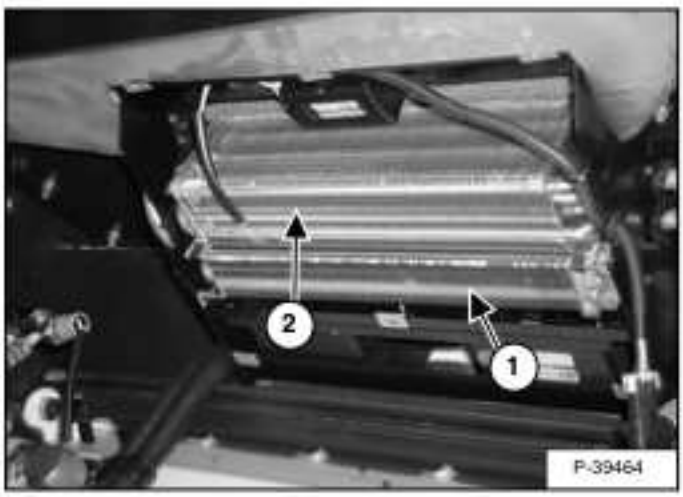
Figure 80-50-4



The access cover is sealed to the heater unit with a foam gasket (Item 1) **[Figure 80-50-4]** that keeps out dirt and debris. Check the gasket for rips and tears. Replace as needed.

The cover is held in place with screws that are held to the cover with plastic retainers (Inset) **[Figure 80-50-4]**. These help hold the screws when installing the cover.

Figure 80-50-5



With water or air, clean the heater coil (Item 1) and the evaporator coil (Item 2) **[Figure 80-50-5]**.

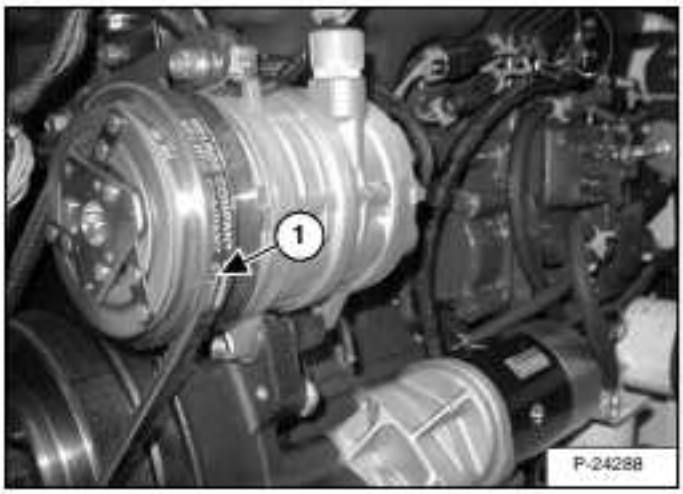
With air or water, clean the heater coil (Item 1) and evaporator coil (Item 2) **[Figure 80-50-5]**.

Replace the cover.

Lower the operator cab. (See Lowering The Operator Cab on Page 10-30-2.)

Compressor Drive Belt Inspection

Figure 80-50-6



Regularly inspect (weekly) the compressor drive belt for wear.

Open the rear door.

Remove the drive belt cover.

Remove the compressor belt cover.

Check the tension on the compressor belt (Item 1) **[Figure 80-50-6]**.

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LOADER SPECIFICATIONS (CONT'D)

Hydraulic System

Make/Model	KUBOTA V2003M-DI-T	KUBOTA V2403M-DI-T
Pump Type	Engine Driven, Gear type	
Pump Capacity	16.9 GPM (64 L/min.) at High Idle	16.3 GPM (61,7 L/min.) at High Idle
High Flow (Option)	26.4 GPM (99,9 L/min.) at High Idle	25.5 GPM (96,5 L/min.) at High Idle
Charge Pump Capacity **(SJC Only)**	12.8 GPM (48,5 L/min.) at High Idle	
System Relief at Quick Couplers	3300 PSI (22754 kPa)	
Filter	Full flow replaceable, 3 micron synthetic media element	
Control Valve	3-spool, open center type w/float detent on lift and electrically controlled auxiliary spool.	
Hydraulic Cylinders	Doubleacting; Tilt cylinders have cushioning feature on dump	
Bore Diameter: Lift Cylinder (2)	2.25 (57,2)	
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)	27.90 (708,7)	
Tilt Cylinder (2)	13.19 (335,0)	
Fluid Type	BOBCAT FLUID, Hydraulic, Hydrostatic 6903117 - (Two - 2.5 gal. containers) 6903118 - (5gal.) 6903119 - (55 gal.)	
Fluid Lines	SAE standard tubelines, hoses and fittings.	
Hydraulic Function Time:		
Raise Lift Arms	3.53 Seconds	3.62 Seconds
Lower Lift Arms	2.10 Seconds	2.54 Seconds
Bucket Dump	2.28 Seconds	2.37 Seconds
Bucket Rollback	1.78 Seconds	1.85 Seconds

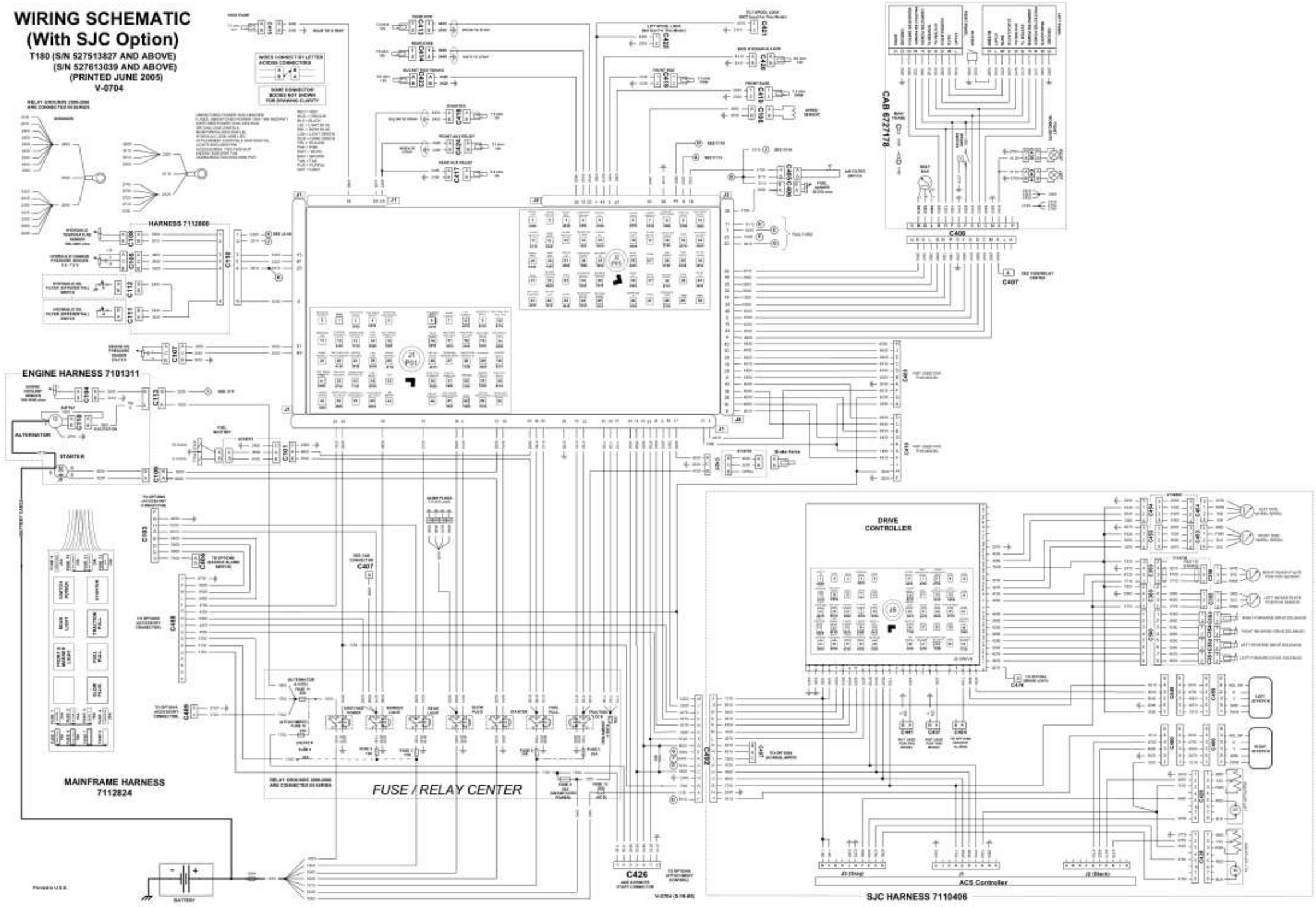
Electrical

Alternator	Belt driven, 90 amp., open
Battery	12 volt, 600 cold cranking amps. @ 0° F (-18° C); 115 minute reserve capacity at 25 amps.
Starter	12 volt, 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, Attachment Info, Digital Tachometer, High Flow Lock-Outs, Multi Language Display.

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WIRING SCHEMATIC
(With SJC Option)

T180 (S/N 527513827 AND ABOVE)
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