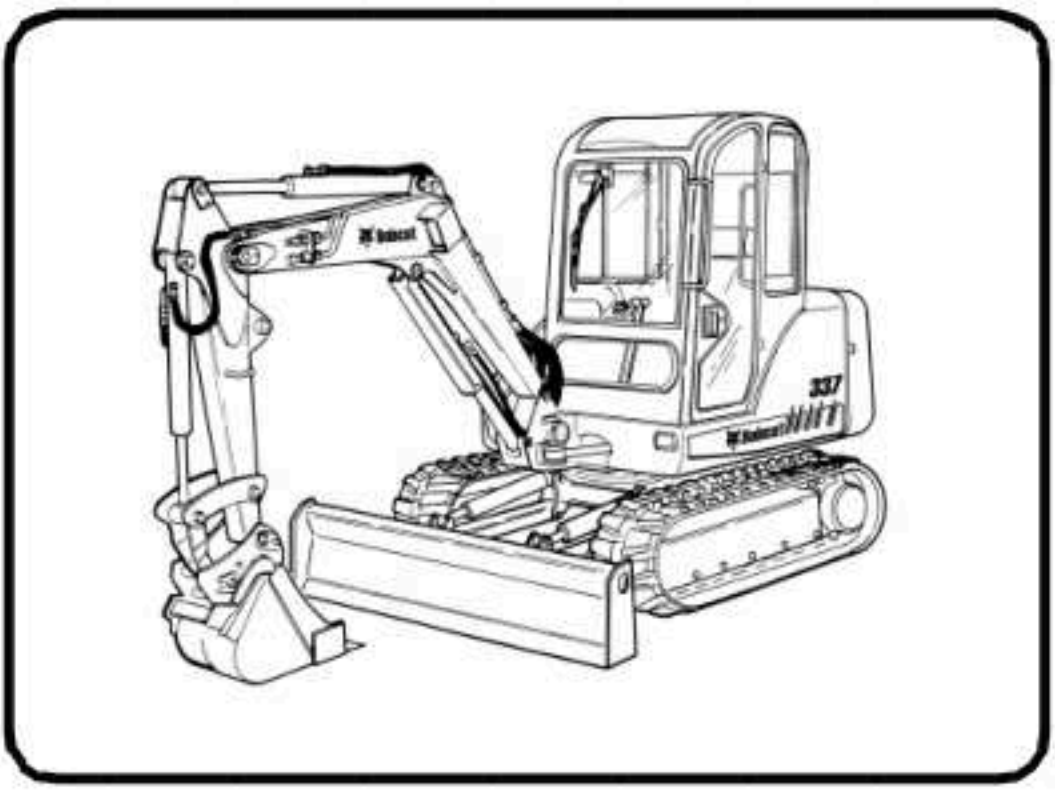
Bobcat®

Service Manual

337, 341 Compact Excavator

337 - S/N AAC811001 & Above
337 - S/N A9W711001 & Above
341 - S/N A9W911001 & Above



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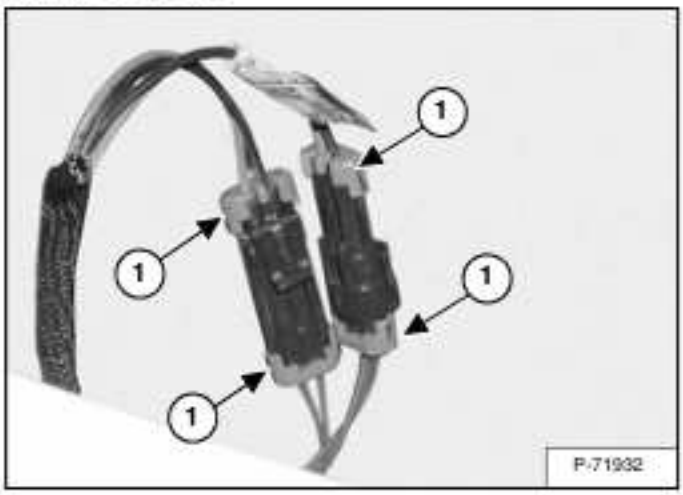
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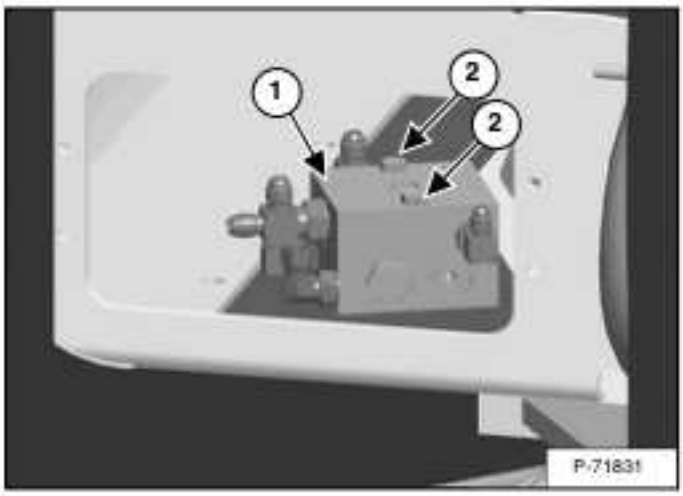
Removal And Installation (Cont'd)

Figure 20-210-12



Disconnect the two harness connectors (Item 1) from the X-change valve solenoid connectors (Item 2) **[Figure 20-210-12]**.

Figure 20-210-13



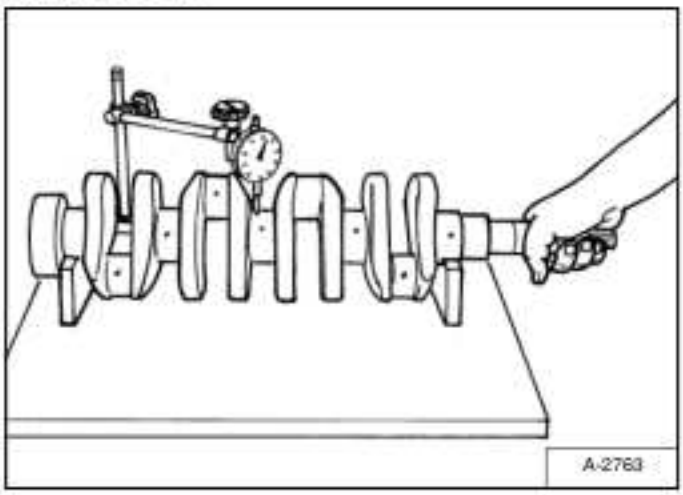
Remove the two mounting nuts and bolts (Item 1) **[Figure 20-210-13]**.

Remove the X-change valve (Item 2) **[Figure 20-210-13]**.

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Crankshaft And Bearings, Servicing

Figure 60-80-82



Put the crankshaft on V-blocks. Install a dial indicator on the center journal **[Figure 60-80-82]**.

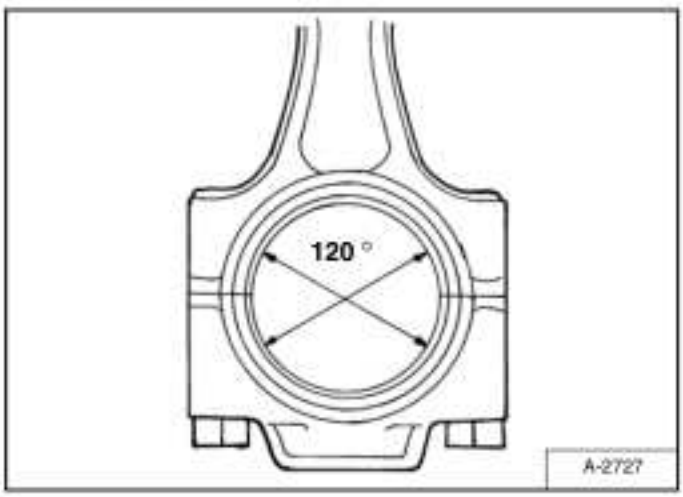
Turn the crankshaft at a slow rate to obtain the misalignment (one half of the alignment measurement).

If the misalignment exceeds the allowable limit, replace the crankshaft.

Alignment	0.0008 in. (0,02 mm)

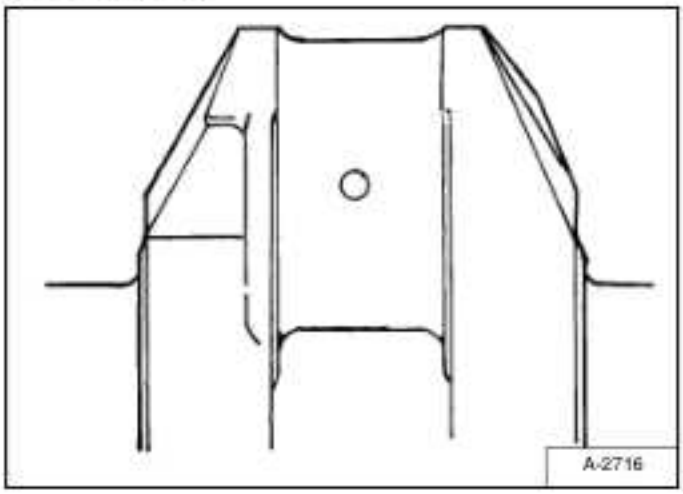
Tighten the connecting rod bolts to 33 - 36 ft.-lb. (44 - 49 N•m) torque.

Figure 60-80-83



Measure the crankpin bearing I.D. **[Figure 60-80-83]**.

Figure 60-80-84

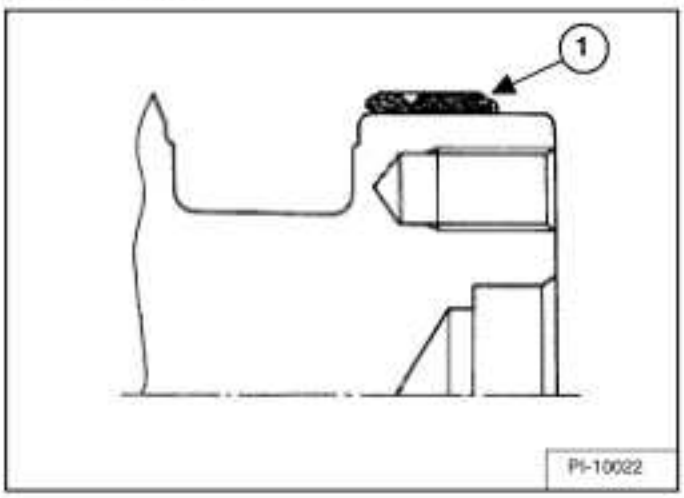


Measure the crankpin O.D. **[Figure 60-80-84]**.

Calculate the oil clearance.

Crankpin Bearing I.D.	1.850 - 1.852 in. (47,0 - 47,05 mm)
Crankpin O.D.	1.8488 - 1.8494 in. (46,96 - 46,98 mm)
Oil Clearance	0.001 - 0.0034 in. (0,025 - 0,087 mm)
Allowable Limit	0.008 in. (0,2 mm)

Figure 60-80-85



Check the wear on the crankshaft sleeve (Item 1) **[Figure 60-80-85]**.

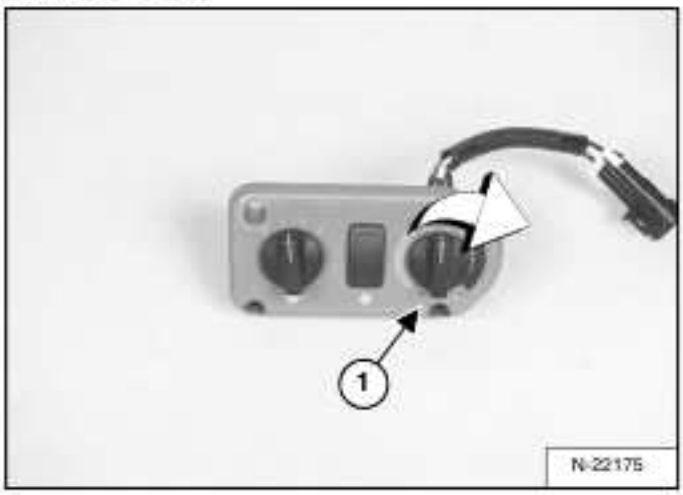
If the wear exceeds the allowable limit or the seal leaks oil, replace the sleeve.

Wear of Sleeve	0.0059 in. (0,15 mm)

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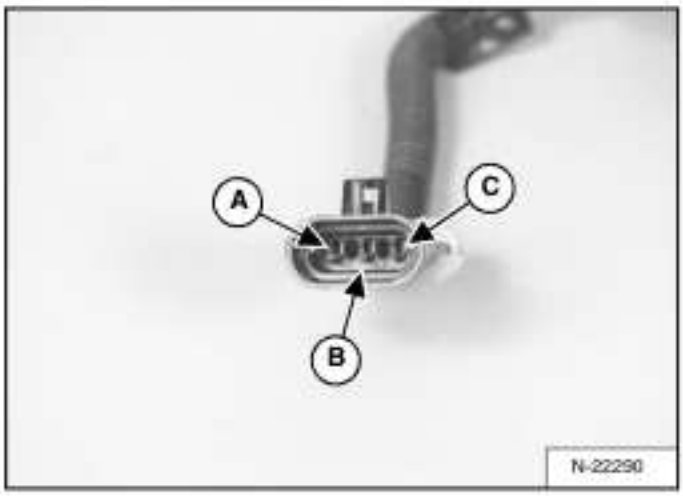
Checking The Electrical System (Cont'd)

Figure 70-80-41



To check the resistance of the white wire, turn the potentiometer control (Item 1) **[Figure 70-80-41]** to the full Heater position.

Figure 70-80-42



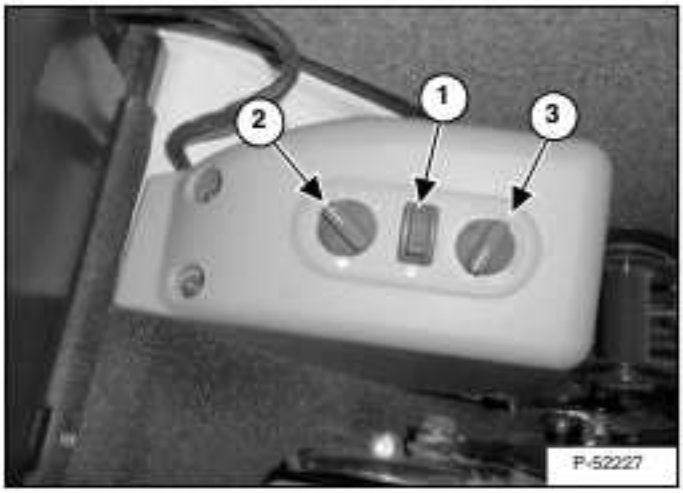
Check the resistance between the wire terminal A and wire terminal B frame **[Figure 70-80-42]** should be approximately 39K Ohm's.

Check the resistance between the wire terminal C and wire terminal B frame **[Figure 70-80-42]** should be approximately 49K Ohm's.

If the resistance is not found replace the potentiometer.

Engine Coolant By-Passing The Heater Valve

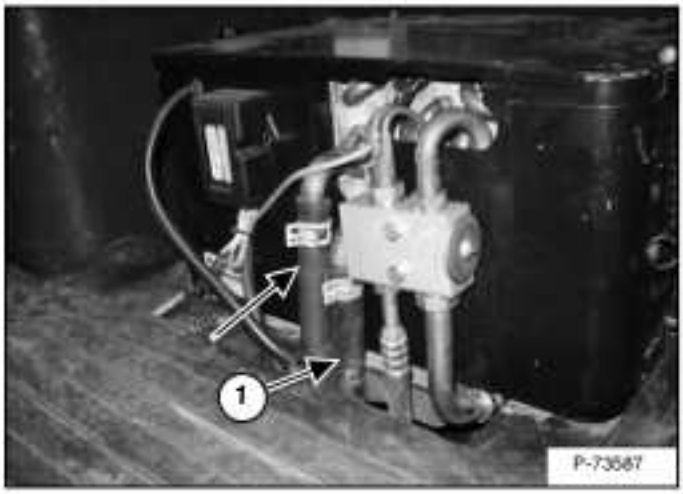
Figure 70-80-43



Push the A/C switch (Item 1) to the OFF position. Turn the fan switch (Item 2) to the High Speed position., Turn the temperature control (Item 3) **[Figure 70-80-43]** to the High A/C position, with the key switch OFF.

Start the excavator and run at high idle, for ten minutes.

Figure 70-80-44



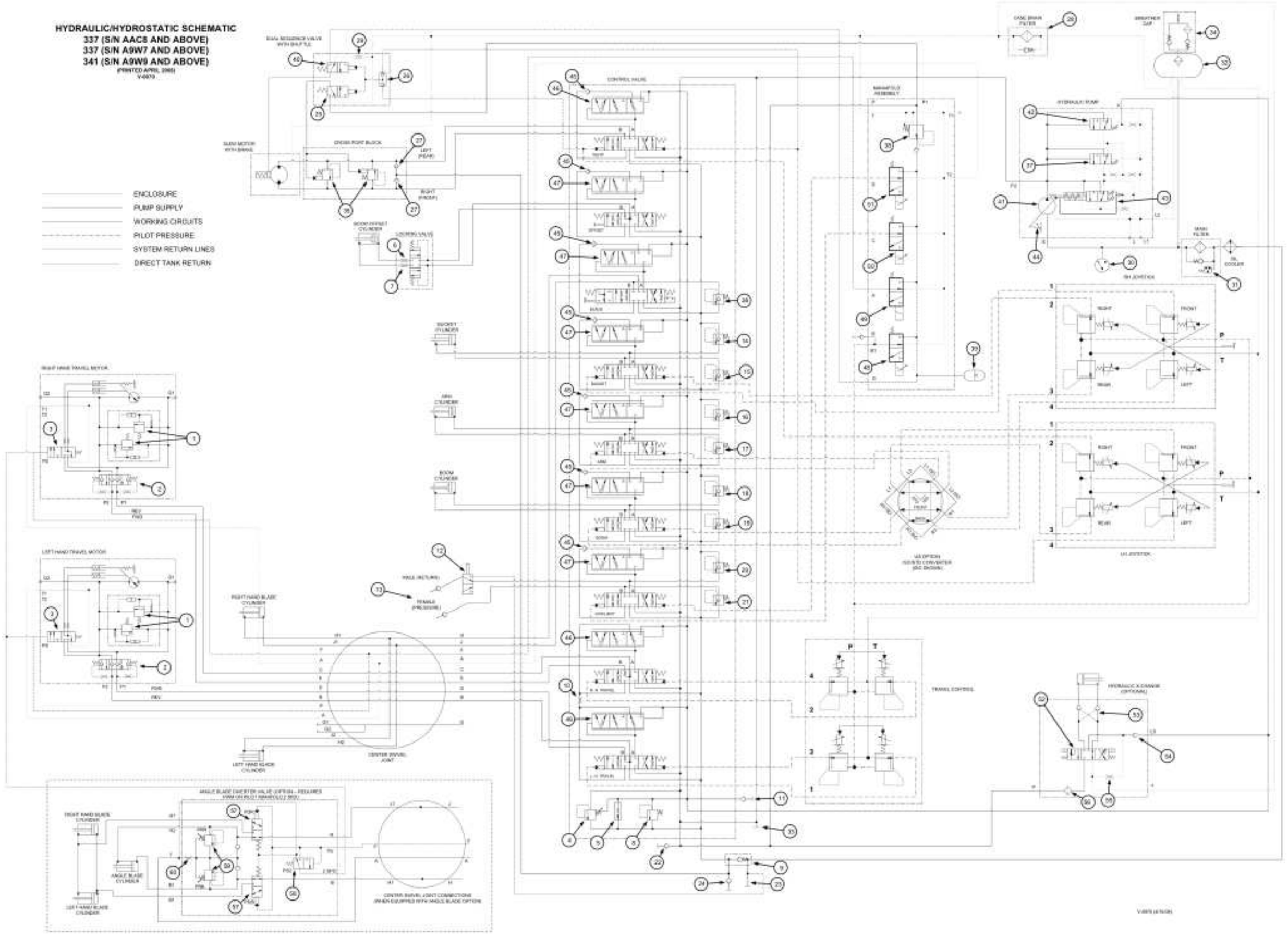
Check the temperature of the heater hoses (Item 1) **[Figure 70-80-44]**.

If the hoses are hot, the heater valve is leaking internally, and needs to be replaced.

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HYDRAULIC/HYDROSTATIC SCHEMATIC
337 (S/N AAC8 AND ABOVE)
337 (S/N A9W7 AND ABOVE)
341 (S/N A9W9 AND ABOVE)

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