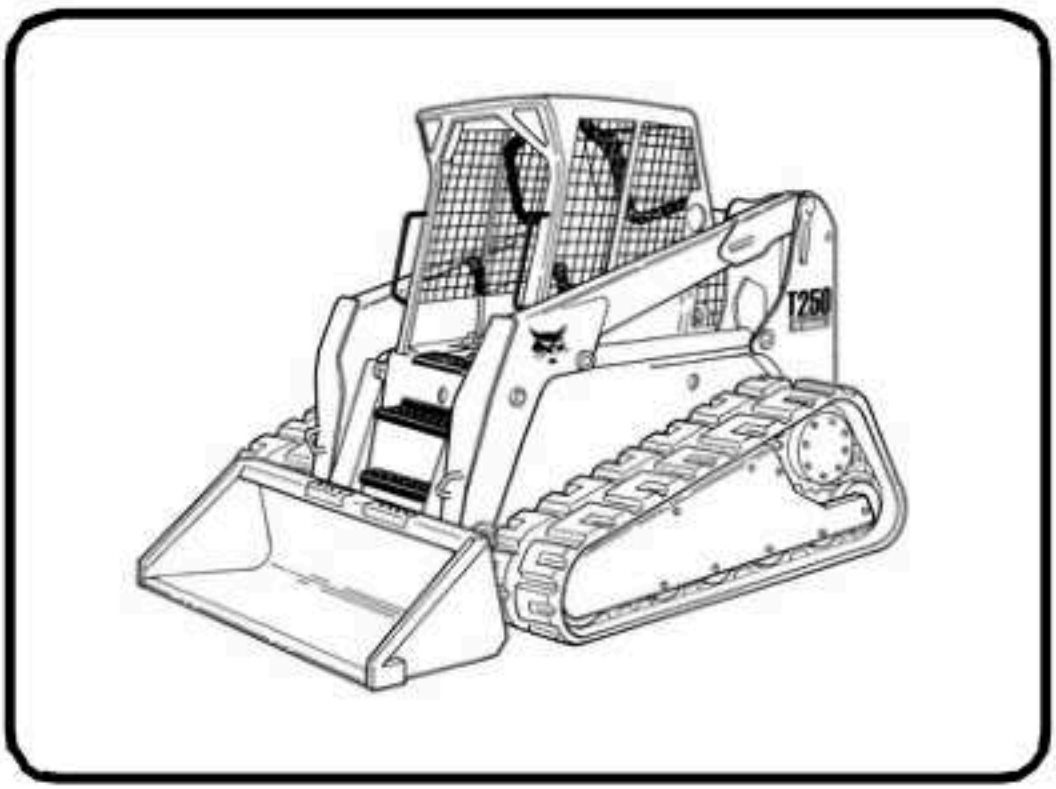
Bobcat®

Service Manual
T250 Compact Track Loader

S/N A5GS20001 & Above
S/N A5GT20001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

6987044 (7-08)

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ACS- ADVANCED CONTROL SYSTEM
AHC- ADVANCED HAND CONTROL SYSTEM
BICS™-BOBCAT INTERLOCK CONTROL SYSTEM

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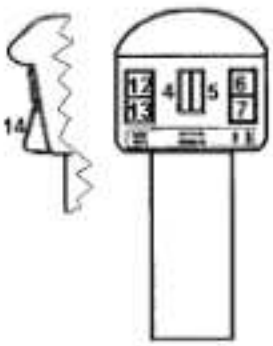
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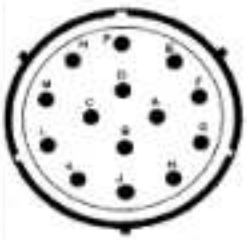
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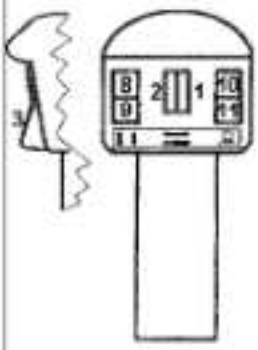
Identification Chart (Cont'd)

Left Side Control Handle Switches	Switch Number	Solenoid Number Activated			Attachment Harness Terminal Activated	Attachment Harness Connector	Right Side Control Handle Switches
			RH	HFH		Fourteen Pin Connector Viewed from front (pin side of connector) of loader.	
	1	1	1	1, 8	K		
	2	2	2	2	K		
	3	1	1	1, 8	K		
	4	2	2, 3	6, 7	K, A, D		
	5	1	1, 3	5, 7	K, A, C		
	6	1	1, 3	5, 7	K, E		
	7	1	1, 3	5, 7	K, F		
	8	1	1, 3	5, 7	K, G		
	9	1	1, 3	5, 7	K, H		
	10, 11, 12, 13, 14	-	--	--	K		



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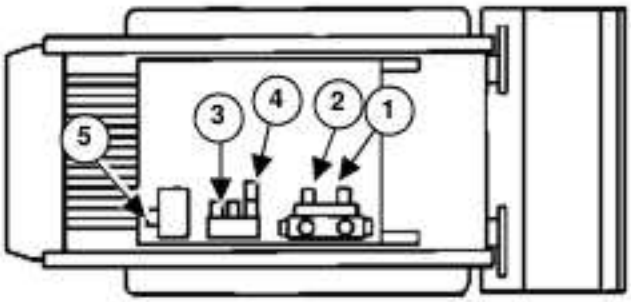
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NOTE: For diagnostics and troubleshooting connect the Service PC (See SERVICE PC (LAPTOP COMPUTER) on Page 60-150-1.)

The ACD (Attachment Control Device) automatically recognizes the use of the seven or fourteen pin connector when connected.

RH - Loaders with Rear Hydraulics Option.
HFH - Loaders with High Flow Hydraulics Option.
* If harness terminals K & L are jumped together, switches 4 thru 9 will function the same as switch 1 & 2.
* Terminal K is activated with Key switch ON.

T250



Solenoid Number	Hydraulic Coupler	Wiring Number
1	Front Female (Rod)	4330
2	Front Male (Base)	4340
3	Diverter & Bleed	4450/4480
4	Bleed - Rear Male & Female	4430/4440
5	High Flow on Pump	4460

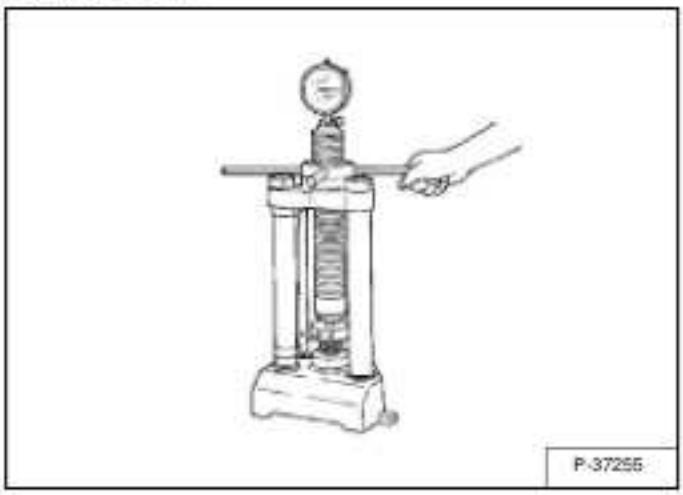
NOTE: Front Auxiliary Pressure Release is accomplished by manually pushing the male and female couplers in at the front auxiliary block.

The High Flow Button in the left side instrument panel must be pushed ON to activate solenoid number 5 at the gear pump.

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Valve Spring

Figure 70-80-32



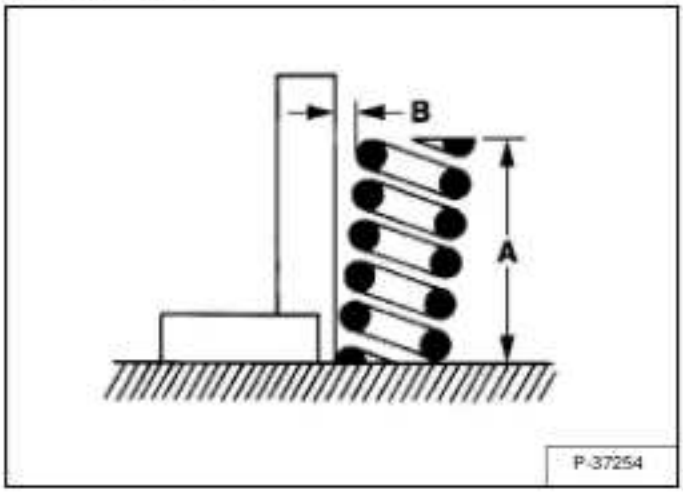
Place the valve spring on a tester and compress it to the same length it is actually compressed in the engine **[Figure 70-80-32]**.

Read the compression load on the gauge.

If the measurement is less than the allowable limit, replace it.

Setting load/ setting length	Factory spec.	Intake valve	14.3 lbs. / 1,2401 in. (63,5 N / 31,5 mm)
		Exhaust valve	14.3 lbs. / 1,2401 in. (63,5 N / 31,5 mm)
	Allowable limit	Intake valve	10.3 lbs. / 1,24 in. (45,9 N / 31,5 mm)
		Exhaust valve	10.3 lbs. / 1,2401 in. (45,8 N / 31,5 mm)

Figure 70-80-33



Measure the free length **(A)** with vernier calipers **[Figure 70-80-33]**. If the measurement is less than the allowable limit, replace it.

Put the spring on a surface plate, place a square on the side of the spring, and check to see if the entire side is contact with the square. Rotate the spring and measure the maximum **(B) [Figure 70-80-33]**. If the measurement exceeds the allowable limit, replace.

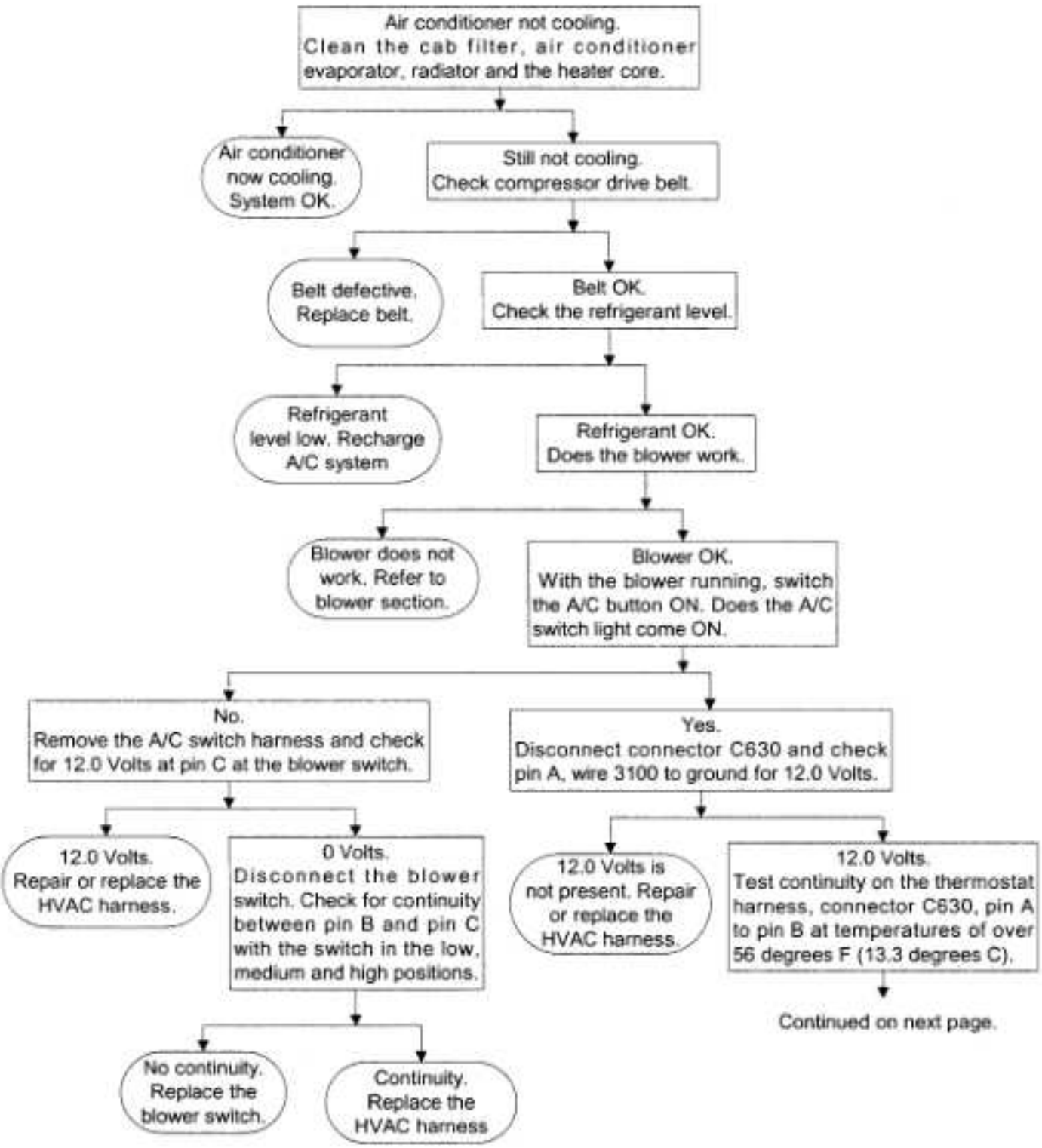
Check the entire surface of the spring for scratches. Replace it, if any.

Free length (A)	Factory spec.	Intake valve	1.38 - 1.40 in. (35,1 - 35,6 mm)
		Exhaust valve	1.38 - 1.40 in. (35,1 - 35,6 mm)
	Allowable limit	Intake valve	1.36 in. (34,6 mm)
		Exhaust valve	1.36 in. (34,6 mm)
Tilt (B)	Allowable limit	0.039 in. (1,0 mm)	

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Troubleshooting Tree

Air Conditioning



Continued on next page.

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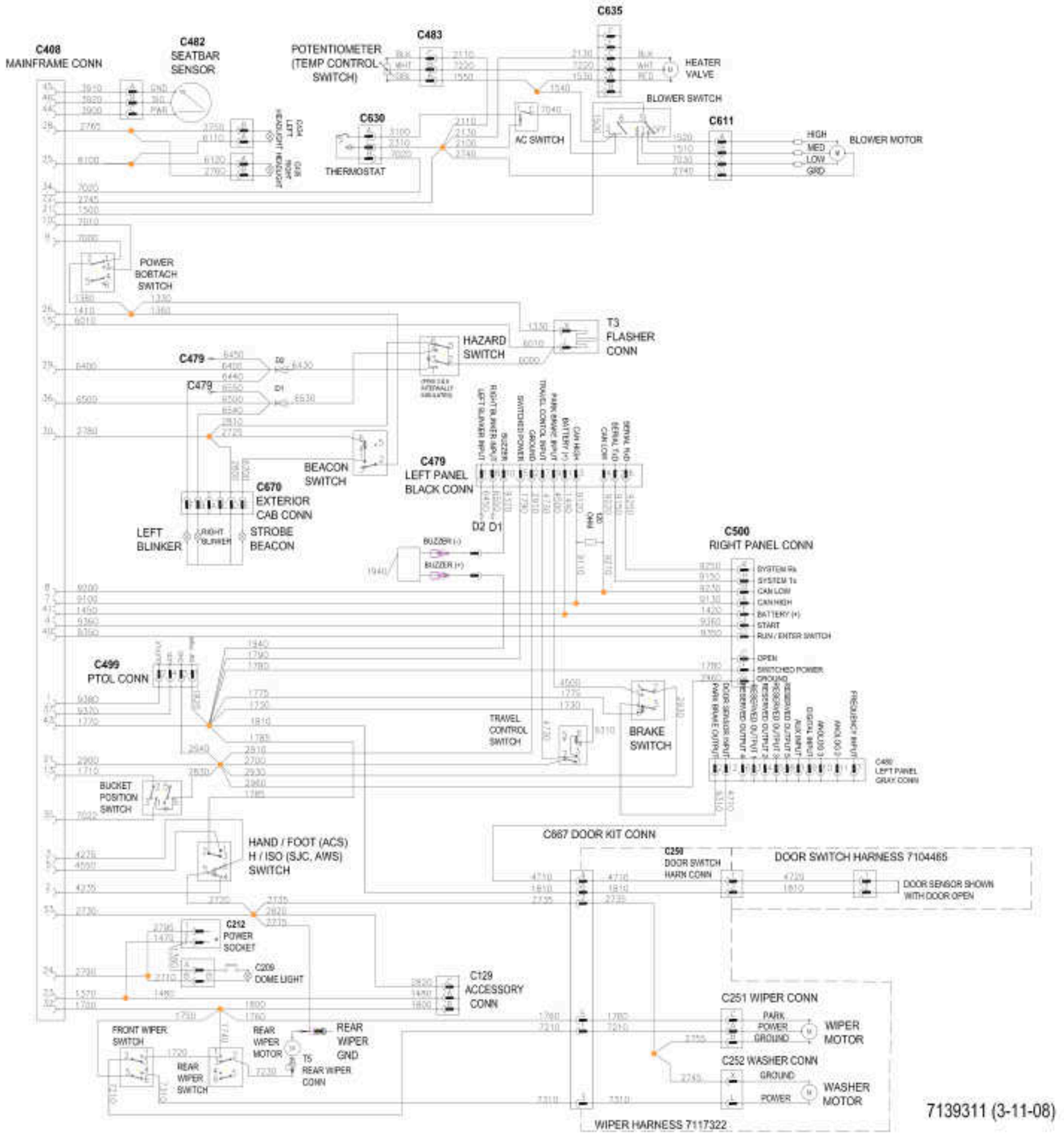
WIRING SCHEMATIC
(DELUXE CAB)
T250 (S/N A5GS20001 AND ABOVE)
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