

JOB#1 EXPRESS SCP (EA) DIAGNOSE AND ADVISE CONDITION

CONDITION CHECK AND ADVISE FOR CEL ACTIVE

CAUSE

CORRECTION pulled unit into shop, hooked INSITE and pulled faults, has 1 active code, #3243 cooling system monitor- data valid but below operational range. followed TS for code #3243. 1st step is to check for related active/ inactive codes 144, 145, 334 present? yes, fault #144 was active 9 hours ago. TS states to troubleshoot fault #144 first. followed TS for fault #144. disconnected coolant temp sensor and measured resistance. reads 13.5 kOhms. spec is 180- 160k Ohms. within spec. next step is to place a jumper wire between the engine coolant temperature sensor SIGNAL pin and the engine coolant temperature sensor RETURN pin at the sensor connector of the engine wiring harness. A malfunctioning engine coolant temperature sensor has been detected if the following fault code #145 becomes active with the jumper wire in place. Yes, #145 is now active.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
	EXP	(EA) DIAGNOSE AND ADVISE FOR	TECH NO. 5140	210.00
	00	REMOVE AND REPLACE THE COOLANT TEMP SEI	TECH NO. 5140	105.00
	00	6 ADDITIONAL DIAG HOURS REQUESTED	TECH NO. 5140	1,260.00
1.00	901F/06-62384-002	SENDER/SENSOR-FLUID LEVEL,COOL	61.96	61.96

CUSTOMER
PINNACLE CUSTOMER - NO MAIL COPY

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CONDITION CHECK AND ADVISE FOR LITTLE TO NO HEAT IN CAB / TEMP GUAGE ON DASH SHOWS 100-125 DEGREES

CAUSE

CORRECTION checked live data of coolant faults, shows coolant temp was not over 136 degrees, put in PRQ for a new thermostat. DRAINED COOLANT FROM UNIT. REMOVED UPPER RADIATOR HOSE, AIR CLEANER, AND FRONT AIR CLEANER SUPPORT BRACKET. REMOVED THERMOSTAT HOUSING BOLTS. FOUND A/C COMPRESSOR WAS IN THE WAY OF REMOVING BOLTS. REMOVED BELT, FOLLOWED BY COMPRESSOR. REMOVED THERMOSTAT HOUSING FROM UNIT. REMOVED THERMOSTAT FROM HOUSING FOLLOWED BY SEALS. CLEANED AND INSPECTED HOUSING. INSTALLED NEW SEALS AND NEW THERMOSTAT. REMOVED AND REPLACED TEMPERATURE SENSOR. INSTALLED THERMOSTAT HOUSING AND REASSEMBLED REMAINDER OF UNIT. FILLED UNIT WITH COOLANT. STEAM CLEANED UNIT. PRESSURE TESTED COOLING SYSTEM AND LET UNIT SIT WITH PRESSURE IN IT. VISUALT INSPECTED UNIT AND FOUND COOLANT LEAKING FROM LOWER RADIATOR HOSE. UPON INSPECTED FOUND METAL PIPE IS RUSTING OUT AND THAT THE HOSE IS NOT CORRECT FOR THIS UNIT

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
	CR	CUSTOMER REQUEST	TECH NO. 5140	210.00
	00	REMOVE AND REPLACE THERMOSTAT	TECH NO. 5140	420.00
	00	REMOVE AND REPLACE COOLANT HOSE ALONG	TECH NO. 4483	420.00
1.00	901C/3084879	SEAL,THERMOSTAT	31.21	31.21
1.00	901C/3682673	GASKET,THM HOUSING COVER	36.09	36.09
1.00	901C/4318197	THERMOSTAT	36.46	36.46
3.00	901F/23-12485-250	CLAMP-CONSTANT TORQUE,HOSE,2 9	20.60	61.80
1.00	901F/05-16836-013	HOSE-ECR,2.50IN ID, 13 INCHES	51.19	51.19
1.00	901F/A05-29076-000	ASY-TUBE,LOWER RADIATOR,P3,ISX	171.56	171.56

JOB#3 CR SCP CUSTOMER REQUESTS TO
 CONDITION CHECK AND ADVISE FOR STEERING WHEEL SHAKES WHEN TRAVELING OVER 50 MPH
 CAUSE
 CORRECTION PULLED IN UNIT JACK UP FRONT OF TRUCK. CONFIRMED LEFT WHEEL ONLY SPINS BACKWARDS. REMOVED LUG NUT COVERS. REMOVED LEFT WHEEL. REMOVED BREAK DRUM. FOUND BREAK SHOES ARE COVER IN OIL AND BREAK SPRING IS BROKEN. CAUSING BREAKS TO DRAG ALL THE TIME AND CREATING HEAT. REMOVED HUB CAP AND THERE WAS NO OIL IN HUB. FOUND HUB CAP OVERHEATED AND STARTED TO DEFORM. REMOVED HUB ASSY AND BEARINGS TO INSPECT. FOUND THERE IS BEARLY ANY OIL IN HUB. BEARINGS GOT OVERHEATED. INPECTED SPINDLE FOR ANY HOT SPOTS OR MARKS. NO DAMAGE TO SPINDLE FOUND. WILL NEED TO REPLACE WHEEL HUB ASSY, BREAK SHOES AND DRUMS. RECOMEND REPLACING BOTH SIDES HUBS, BREAK SHOES AND DRUMS TO NOT CREAT PULLING.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
	CR	CUSTOMER REQUEST	TECH NO. 5140	210.00
	00	2 ADDITIONAL DIAG HOURS REQUESTED	TECH NO. 5140	420.00
	00	REMOVE AND REPLACE BOTH STEER AXLE HUBS	TECH NO. 5140	1,050.00
	00	REMOVE AND REPLACE STEER AXLE DRUMS AND	TECH NO. 5140	840.00
2.00	901F/TDA KSMA12014720QP	KIT - BRAKE SHOE AND HARDWARE	121.79	243.58
2.00	901F/CM 10014756	DRUM 1H O65TT 878 937 110 .50	214.78	429.56
2.00	901F/CHR 453869 8	HUB CAP GASKET	5.13	10.26
2.00	901F/CM 10082201	ASSY PRESET AFMKT PREMIUM FF F	459.40	918.80
6.00	901X/SIL 5089	BRAKLEEN	5.50	33.00
4.00	901B/301510	ABRASIVE SHOP RL A/O 1-1/2X50Y	65.04	260.16

ESTIMATE