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Exploded View: EV BLOCK HEATER 1.5L CPL KIT Drawing No.: 0J6420

Pa

Revision : J-3645-B Date : 1/3/13

EXPLODED VIEW: EV BLOCK HEATER 1.5L CPL KIT

DRAWING #:0J6420

GROUP H

ITEM	PART#	QTY.	DESCRIPTION	
1	0G2006	1	BLOCK HEATER TEE	
2	084918L	1	HEATER BLOCK 1500W 120V	
3	0G0015	4	CLAMP HOSE 7/8" OD DOUBLE WIRE	
4	047411	2	SCREW HHC M6-1.0 X 16 G8.8	
5	022097	4	WASHER LOCK M6-1/4	
6	049813	2	NUT HEX M6 X 1.0 G8 YEL CHR	
7	022473	4	WASHER FLAT 1/4-M6 ZINC	
8	084427A	1	BRACKET HEATER	
9	0F4301A	1	HOSE REWORK BLOCK HEATER G1.5L	
10	0G4080	REF	HOSE LOWER RADIATOR 1.6L	
11	099502	2	CLAMP HOSE #24 B1.06-2.00	
12	042568	2	SCREW HHC M6-1.0 X 20 G8.8	
13	0F4301A	1	HOSE REWORK BLOCK HEATER G1.5L	

Block Heater Install Instructions 1.5L G11 1500W. 120V Heater

- 1. Disconnect battery cables to prevent accidental start-up. Disconnect the negative battery cable first from the battery post indicated by (-) or NEG.
- 2. Assemble block heater (084918G, I/N 2) and bracket (084427A, I/N 8) as shown, and attach it to the frame engine mount support using specified screws (042568, I/N 12), washers (022473, I/N 7) and (022097, I/N 5) and hex nuts (049813, I/N 6).
- 3. Remove radiator pressure cap. <u>DANGER:</u> Do not remove the radiator pressure cap while the engine is hot. Serious burns to skin and eyes from boiling liquid or steam could result.
- 4. Drain all coolant from radiator into a clean drain pan. Coolant will be used to refill the radiator.
- 5. Drain coolant from engine block by removing lower radiator hose (0G4080, I/N 10) from side of the engine block. Use a funnel and a second clean drain pan. Coolant will later be used to refill the radiator. Replace lower radiator hose with block heater tee (0G2006, I/N 1) inserted into it.
- 6. Install coolant hose (I/N 9) to block heater as shown. Connect other end of hose to block heater tee (0G2006, I/N 1).
- 7. Install coolant hose (I/N 13) to block heater as shown. Clamp the other end of the hose shut with a soft jaw clamp. Take care not to damage the hose.
- 8. Slowly fill the engine with previously drained coolant through the radiator until coolant drips out of the thermostat housing nipple.
- 9. Bleed out air from block heater and hoses by releasing clamp pressure from open end of hose (I/N 13) and with open end of hose held vertically away from the ground and at the same height as the 3/8" NPT barbed fitting (I/N 18). If needed fill the hose with coolant using a funnel. The entire hose should be full of coolant. Connect the hose onto the thermostat housing nipple.

 Note: Block heater failure will occur if the next steps are not done properly.
- 10. Check that both block heater hoses (I/N 9 & I/N 13) are routed away from exhaust manifolds.
- 11. Top off the radiator with coolant.
- 12. Plug block heater into appropriate 120V power source. A 120V line must be run from the existing electrical panel to the generator and terminate in the appropriate gang box.
- 13. Reconnect battery cables to battery posts. Connect the positive cable first to the battery post indicated by (+) or POS.
- 14. Run engine at least 20 min. or until coolant temperature stabilizes to get rid of any air pockets in the coolant lines.
- 15. Check coolant level after engine fully cools down, use caution when removing radiator pressure cap. Coolant should be just below the fill cap neck. Top off if needed.
- 16. Recheck tightness of all hose connections.
- 17. Clean up all coolant that may have spilled during the installation of the block heater kit.

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