



ROADSTER Clutch Assist Installation (SM6 F3 Models) - 122791

Summary:

This TST will provide the parts and installation instructions needed to activate the clutch assist feature on SM6 F3 models.

Type:

General

TST Detail:

Problem:

The customer may feel that the clutch lever is difficult to pull in repeatedly during use of the unit in traffic conditions.

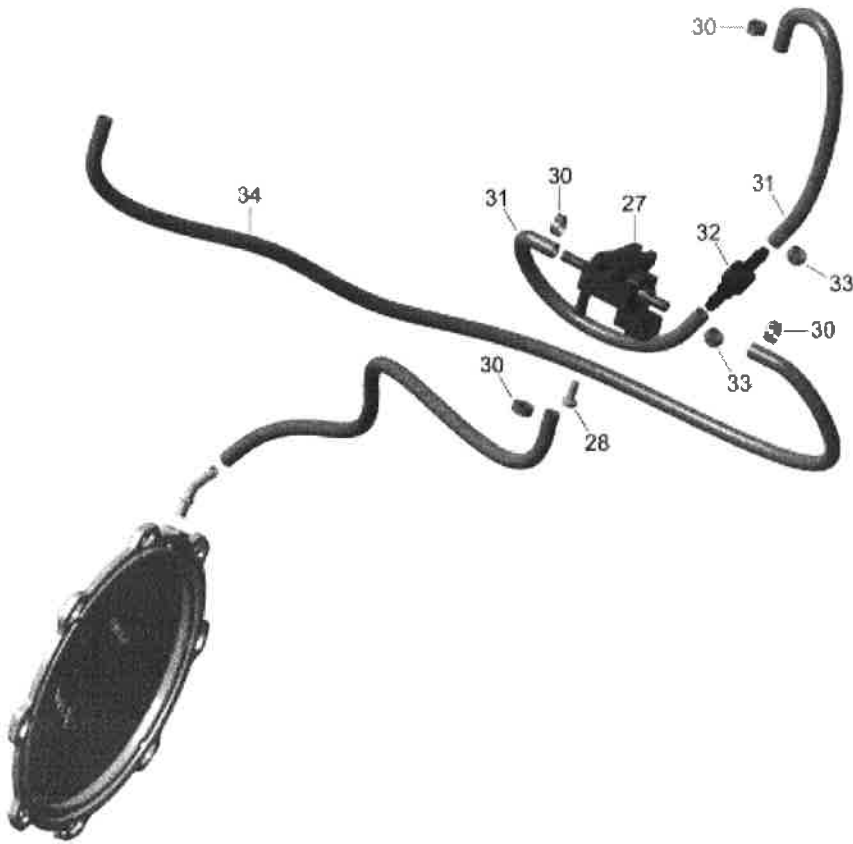
Solution:

Install the parts necessary to have clutch assistance available on the unit.

This is a customer option, parts and labor of installation are **not** covered under warranty. Installation approximate time is 1.25 hrs, installation may take more time.

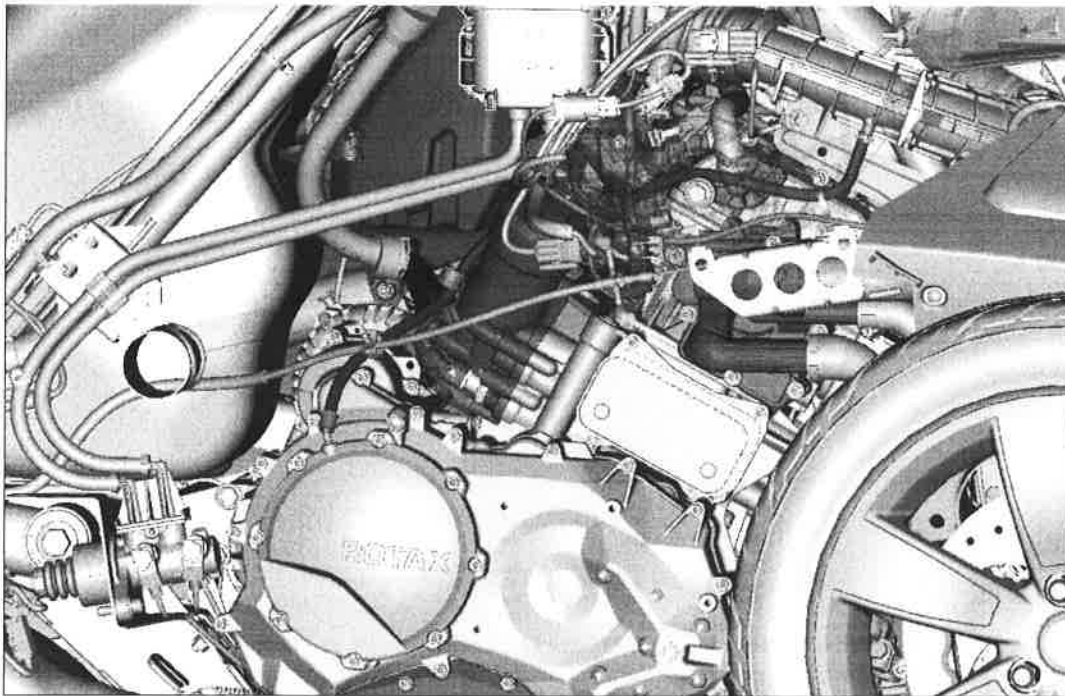
Parts Needed:

Item #	Description	Part Number	Qty
27	Solenoid Valve	420664635	1
28	Torx Screw M5 X 12	420640081	2
30	Clamp 9.2-10.9 mm	420853133	4
31	Hose 430 mm	420260285	1 Cut at 215mm to install check valve (32)
32	Check Valve	420201480	1
33	Gear Clamp	420851463	2
34	Hose 630 mm	420260282	1

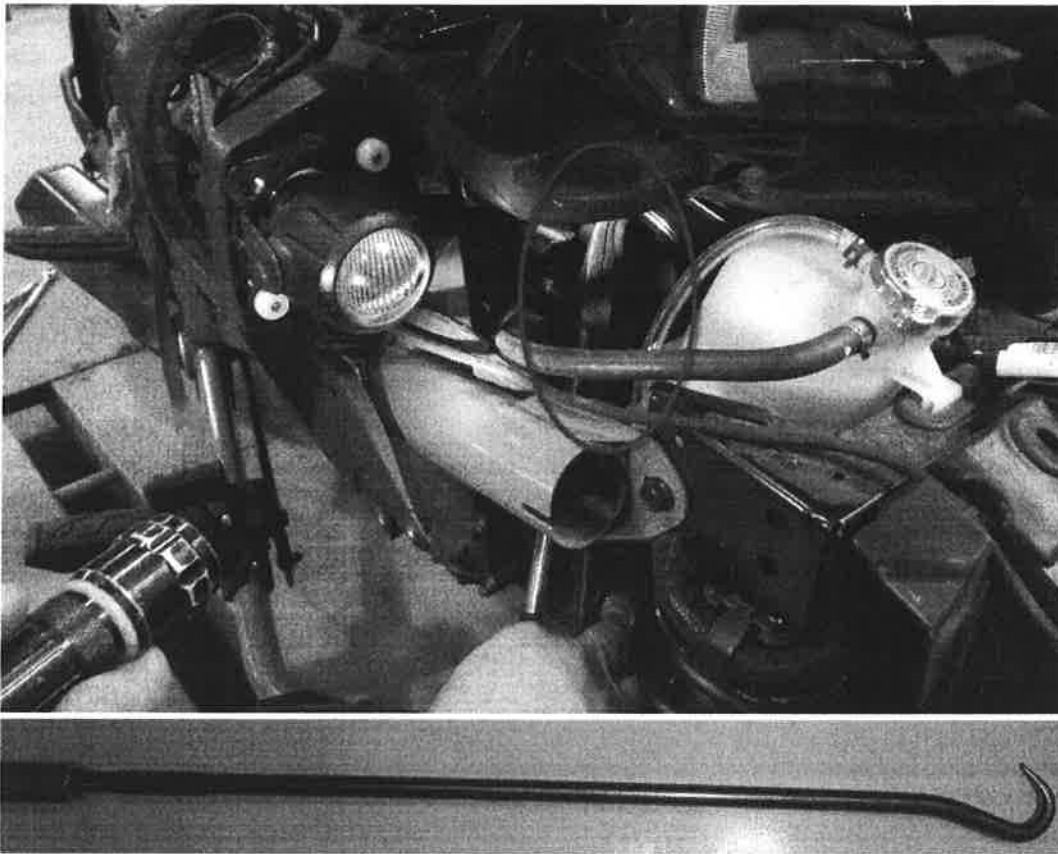


Installation Instructions:

1. Remove LH and RH lateral panels.
2. Locate the clutch cover vent hose (red in illustration) leading to the intake snorkel.

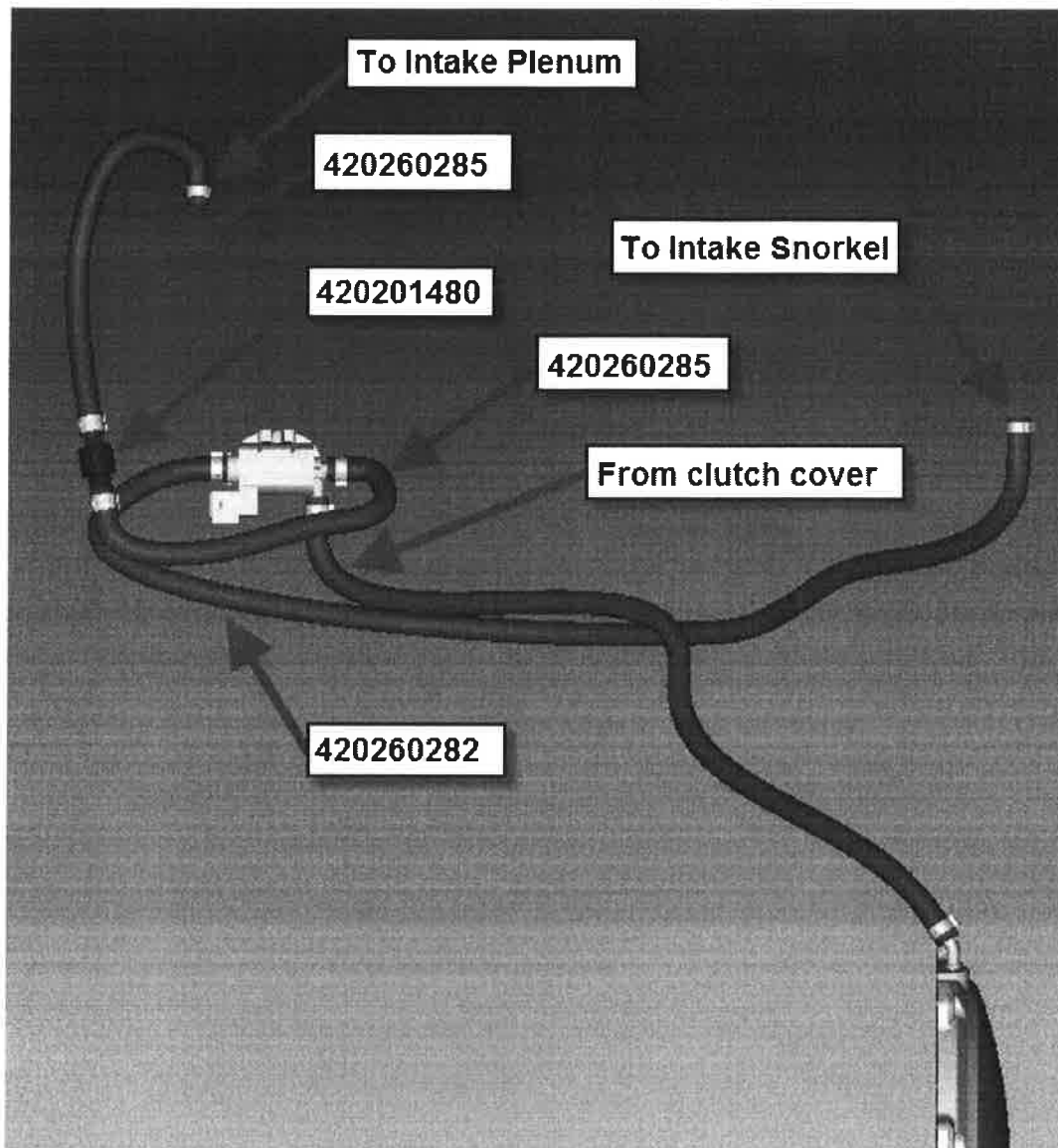


3. Remove clutch venting hose and spring clamp from intake snorkel.
 - a. Take precaution when pulling on the hose to avoid breaking the fitting. A trick is to use a curved seal pick to assist with the hose removal. This hose then needs to be cut to 460mm from the clutch cover.

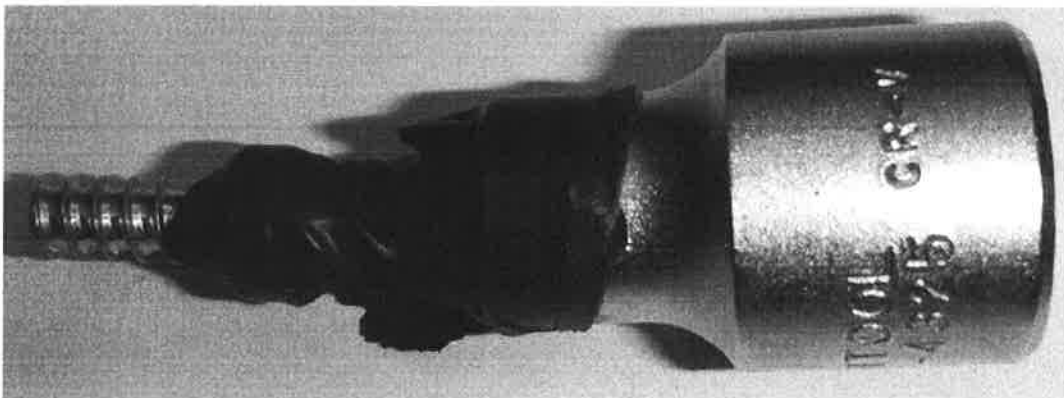


4. Assemble hoses and check valve on the clutch solenoid as illustrated.

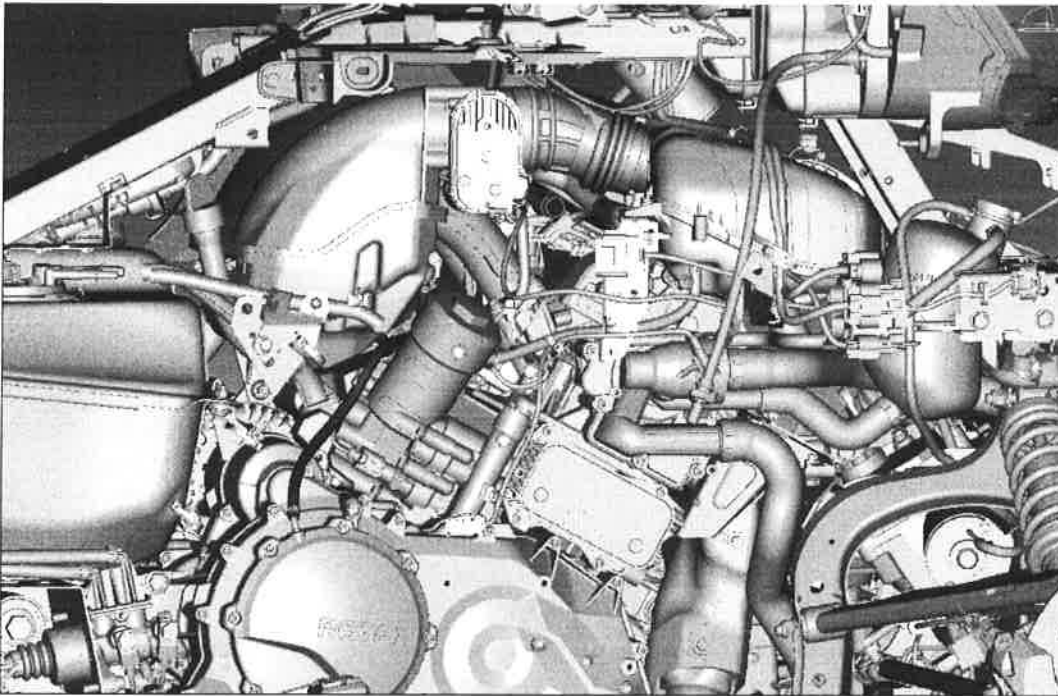
- a. Note that hose 420260285 has a length of 430mm; it needs to be cut in $\frac{1}{2}$ to obtain 2 hoses of 215mm.



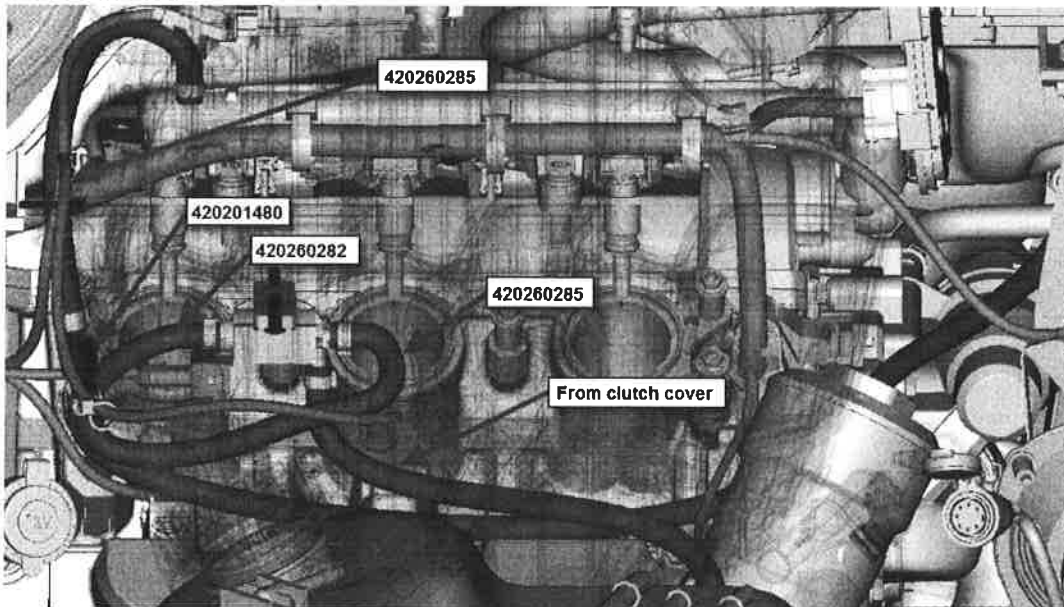
5. Pre-thread the solenoid support holes with the screws before the installation of the assembly.
 - a. A trick is to tape the screw to the socket for this procedure.



6. Route solenoid and hoses towards the LH side in front of the intake plenum.

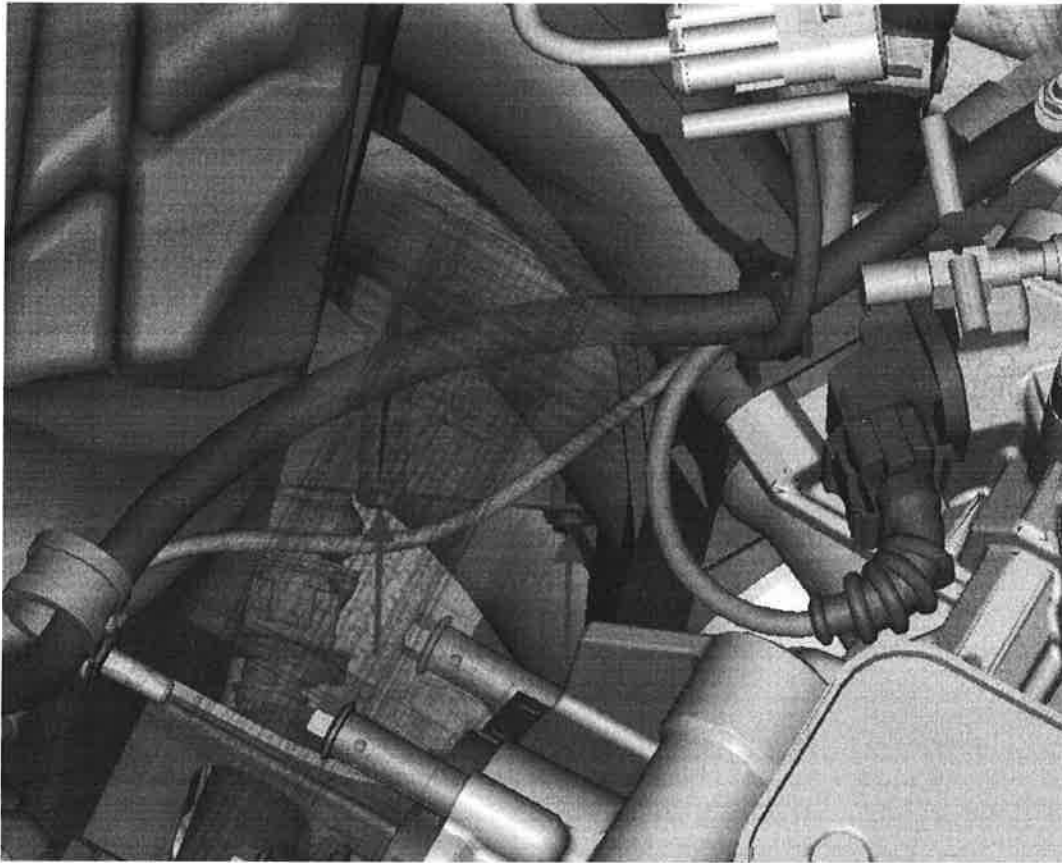


Hoses in Red



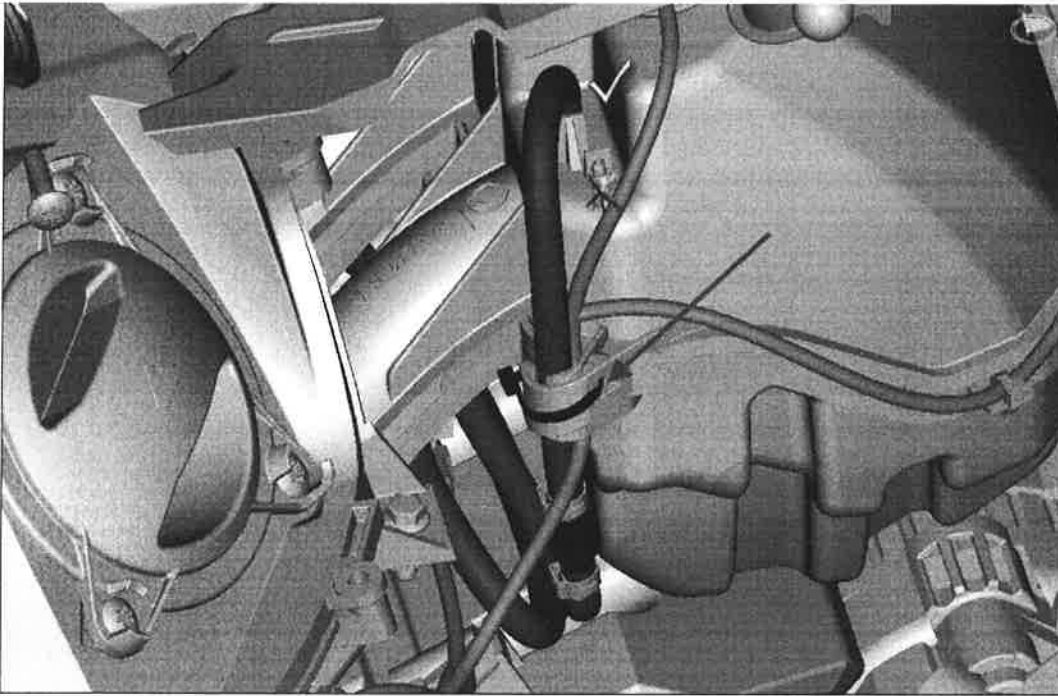
7. Secure the solenoid to the intake plenum with the 2 screws.

- a. Start a screw until 5-6mm distance between the support and the screw head.
- b. Engage the solenoid slot then add the the 2nd screw.
- c. Tighten both screws at $3 \pm 0,3 \text{ N}\cdot\text{m}$ ($27 \pm 3 \text{ lbf}\cdot\text{in}$).

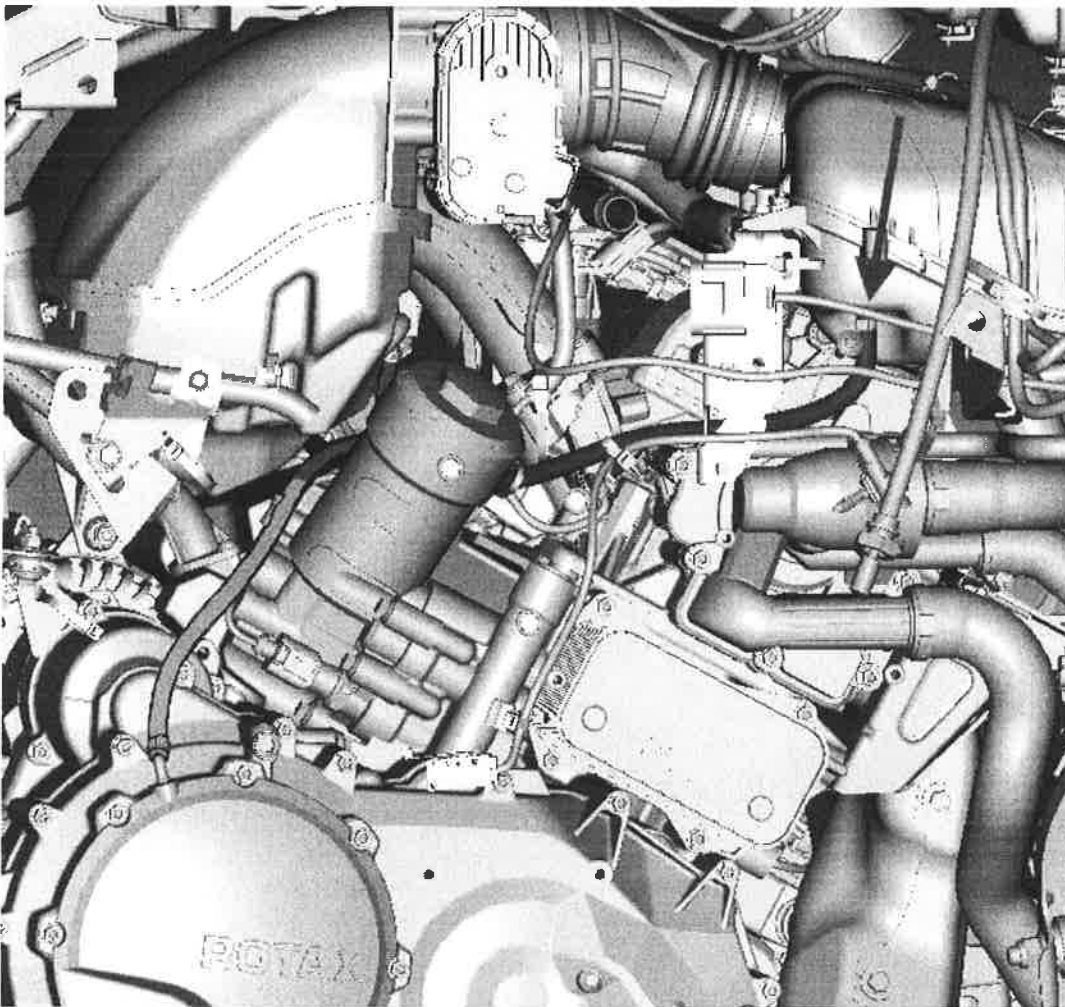




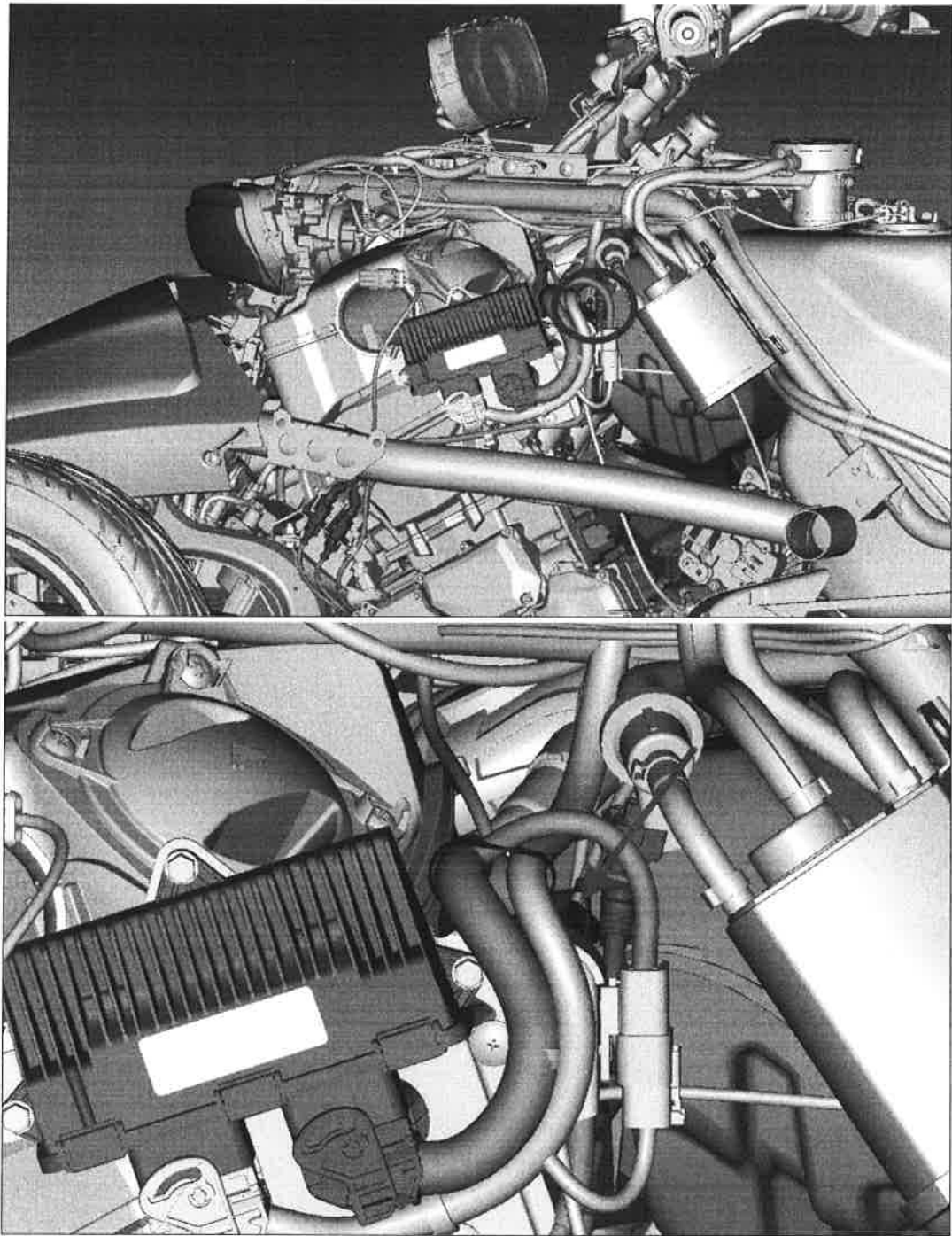
8. Route and connect intake plenum hose to RH fitting as illustrated. Secure with clamp and tie-wrap.

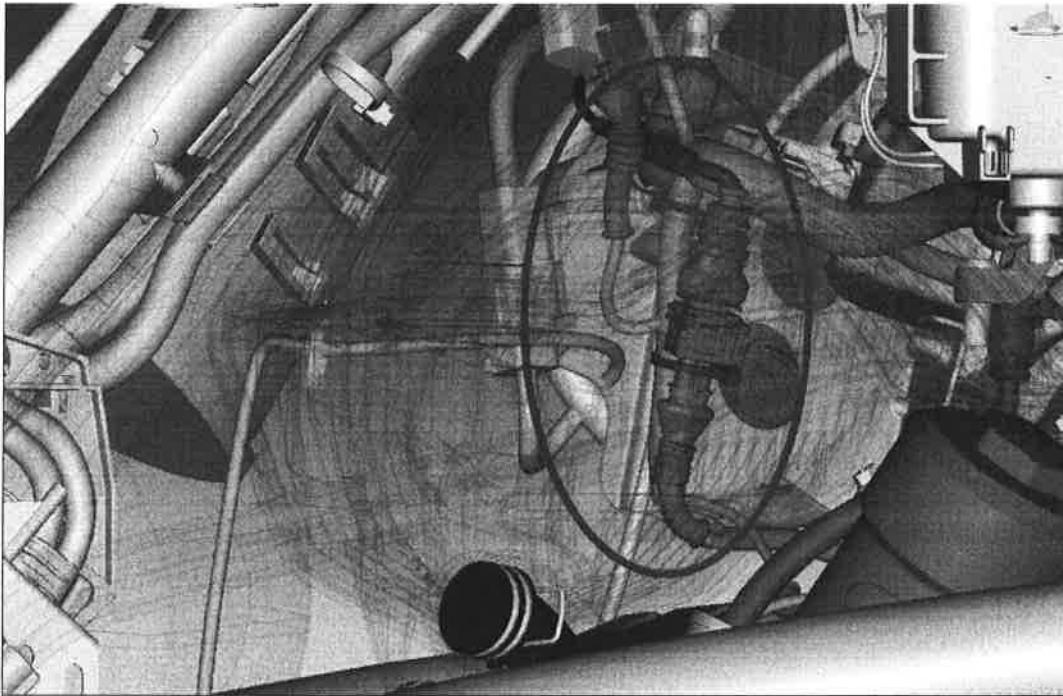


9. Route and connect solenoid vent hose to the intake snorkel with previously removed spring clamp. Secure with tie-wraps.



10. Locate the clutch assist solenoid connector with dummy resistance in front of EVAP canister behind the ECM support.





11. Remove and discard the resistance connector.
12. Connect the clutch solenoid with engine harness connector.
13. Start engine and pull in the clutch lever several times, shut the engine off and pull the clutch lever in several times and confirm that clutch assistance is present (easier to pull in when engine is running).
14. Reassemble vehicle.

Warranty:

Regular parts warranty is applicable.

Attachment:

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