

 SERVICE BULLETIN		Date 27.04.90 Model Elan & Elan S.E.	Number 1990/16
Service Manager	Service Reception	Supervisor	Parts Manager

CLASS 2

TITLE: Replacement of fuel tank.

REASON: Revised moulding with improved resistance to joint line leakage.

ACTION: At the next opportunity, (i.e. next time the vehicle is on the dealer premises) replace the fuel tank on all 1990 model year Elan and Elan S.E. models in the following VIN range:

VIN serial number 6115, 6126 to 6130, 6132, 6133, 6136 to 6138, 6141, 6142, 6144 to 6150, 6152 to 6154, 6161.
 Check VIN of all dealer stock and demonstrators.

Parts Required

On request to the Warranty Dept. quoting the VIN, the following parts will be supplied free issue:

- Fuel Tank Assembly;
 (inc. fuel pump and sender unit)
- 7 off Foam Rubber Pads, tank/body;
- 4 off 'O' Rings, fuel pipe connectors;
- 2 off Rubber Washers.

Fuel pipe connector release tool, T000T0989, will also be supplied, and as part of the Dealer Special Tool Kit, a charge will be made accordingly.

The new tanks are identified by the letter 'M' on the rear face in indelible marker.

To replace the fuel tank, proceed as follows:

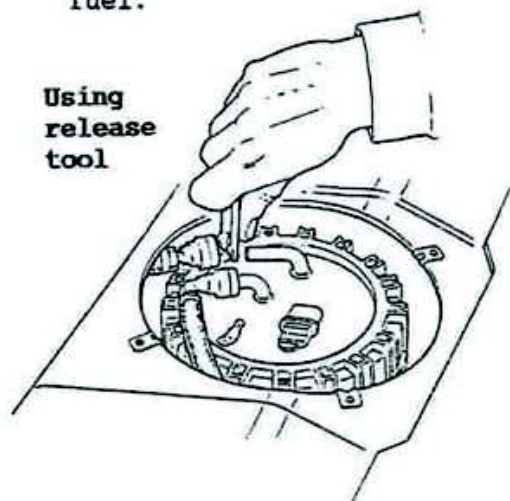
WARNING: Pressure is retained in the fuel feed pipe after switching off the ignition. Before commencing work on the fuel system, carry out the fuel pressure relief procedure detailed below, and disconnect the negative battery cable.

1. Fuel pressure relief procedure:
 - Trip the inertia switch (in battery compartment) to disconnect the fuel pump feed, and start the engine.
 - After the engine stops from fuel starvation, crank the engine for at least 3 seconds to further reduce pressure.
 - Disconnect the negative battery cable.
2. Drain the tank by syphoning to reduce the risk of fuel spillage, and to lighten the tank weight.

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3. Remove the roof stowage compartment floor:
 - Release the screw securing the top edge of each 'B' post trim panel inboard of the roof pivot mechanism.
 - Remove the screw each side of the top edge of the rear wall map pocket. Peel back the top edge of the cabin rear wall carpet and release the 'Scrivet' fixings along the front edge of the capping rail, and the screw at each end securing the 'B' post trim panels.
 - Release the screws along the rear edge of the capping rail, and withdraw the capping rail.
 - Release the roof rear strap fixing.
 - Release the roof front strap anchor bolt.
 - Release the 'Scrivet' fixings securing each end of the roof stowage area carpet, and remove the carpet.
 - If the trim panel at each end of the stowage compartment is fitted over the ends of the floor panel, remove both end trim panels.
 - Remove the spring clips securing the front edge of the roof stowage compartment floor, and the two screws at the rear edge. Remove the floor panel.
3. Release the four screws securing the fuel pump/sender unit access panel, and withdraw the panel, disconnecting the pump/sender electrical plug, and earth cable.
4. Use tool T000T0989 to disconnect the fuel feed and return lines from the fuel pump assembly: Fit the two pips on the legs of the tool into the holes in the end of the 'Speedfit' connector, and press in to release the grip collar whilst pulling back on the connector body. Use an absorbent cloth to soak up any escaping fuel.



T000T0989

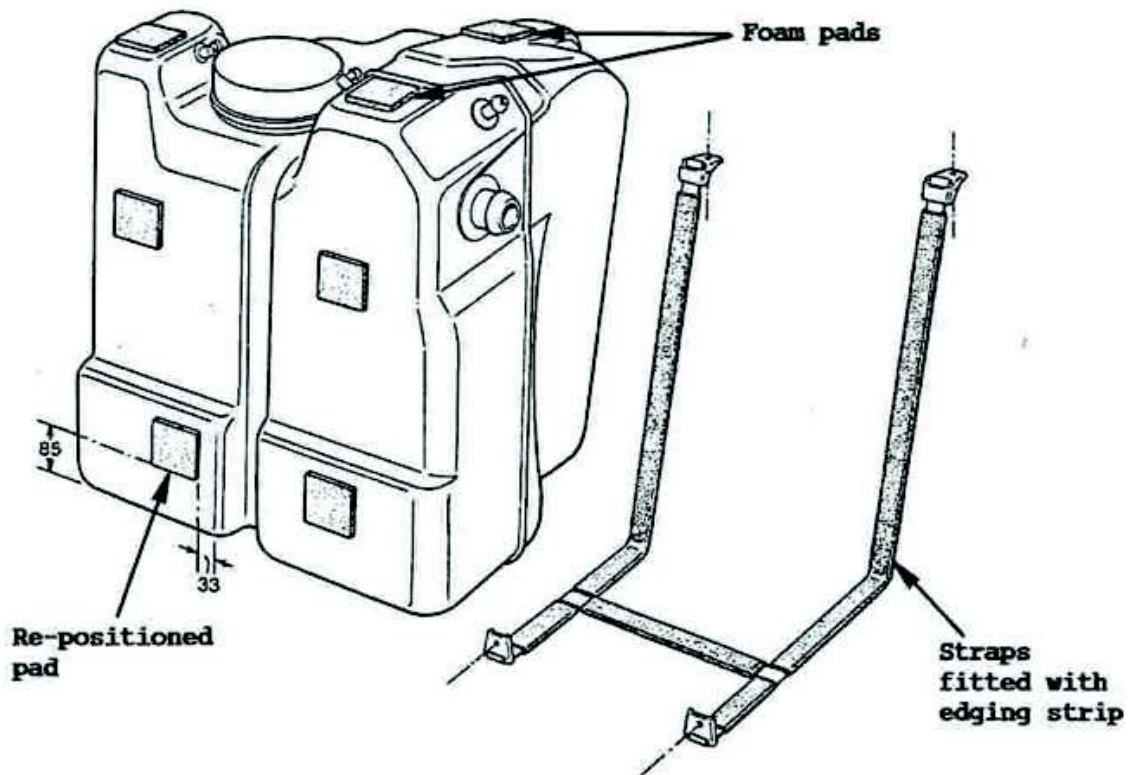


5. Release one end of the tank balance pipe in order to free the fuel feed pipe which is routed between the balance pipe and tank.
6. Disconnect the filler and filler breather hoses from the tank, and plug the orifices.
7. To provide room for the tank to drop, the left hand lower wishbone must be lowered: Release the parking brake cable from the caliper lever, and remove the top wishbone to hub carrier bolt. Match mark the position of the toe-in adjustment eccentric before slackening the two lower wishbone to chassis bolts.

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Release the anti-roll bar from the lower wishbone, and the bolt securing the anti-roll bar hanging link to the chassis. Remove the damper to lower wishbone bolt, and lower the wishbone and hub carrier assembly without straining the brake hose.

8. Release the locknut from the underside of the two strap top fixing bolts, and unscrew each bolt. Swing down the two straps and carefully lower the tank, easing the filler stub through the body.
9. Transfer the balance pipe to the new tank, but leave one end disconnected.
10. Use Silastic RTV 732 adhesive (A036E6038) to secure the seven foam rubber pads to the new tank in the positions shown on the diagram. Note that all the positions except the RH lower position on the tank front face are indicated by moulded corner lines on the tank.

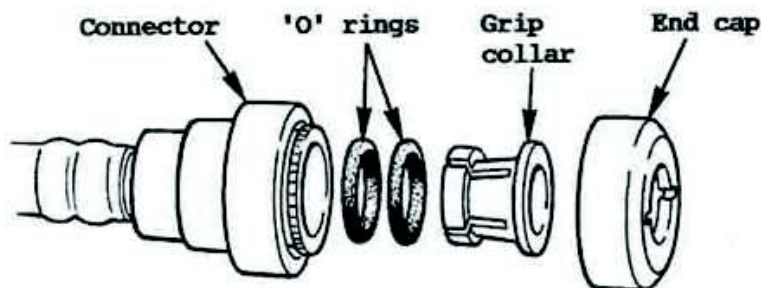


Refit the tank in the reverse order to removal;

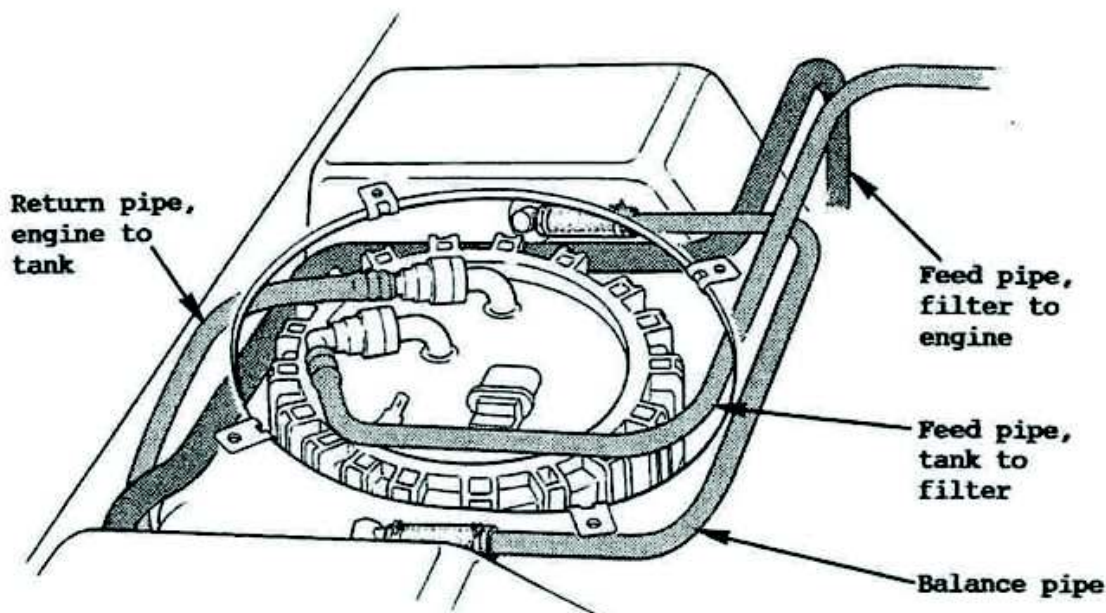
1. Remove the two grommets from the body before fitting the tank into position. Ensure that the tank straps are fitted with rubber edging strips. The straps may already be fitted with rubber edging, glued onto each edge, but if not, use the one piece edging strips (outer strap - A100L0134K; inner - A100L0135K; bracing strap - A100L0136K). Fit onto each of the strap sections with the 'open' side outermost. No adhesive is necessary on the one piece edging strips.

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2. Fit the tank strap bolts taking care not to cross thread, and hold the weld nuts with an 18 mm deep socket to prevent the straps twisting whilst the bolts are torque tightened to 12 Nm (9 lbf.ft). Fit and tighten the lock nuts from beneath.
3. Fit the filler neck and filler breather tube grommets. Connect the filler hose, ensuring that the hose passes through the grommet, and secure with the hose clip. Fit and secure the filler breather hose.
4. Renew the 'O' rings in the fuel pipe connectors:
 - Prise off the end cap of the connector;
 - Pull out the gripper collar;
 - Remove the two 'O' rings from each connector;
 - Fit the two new 'O' rings supplied into each connector, and refit the gripper collar and end cap.

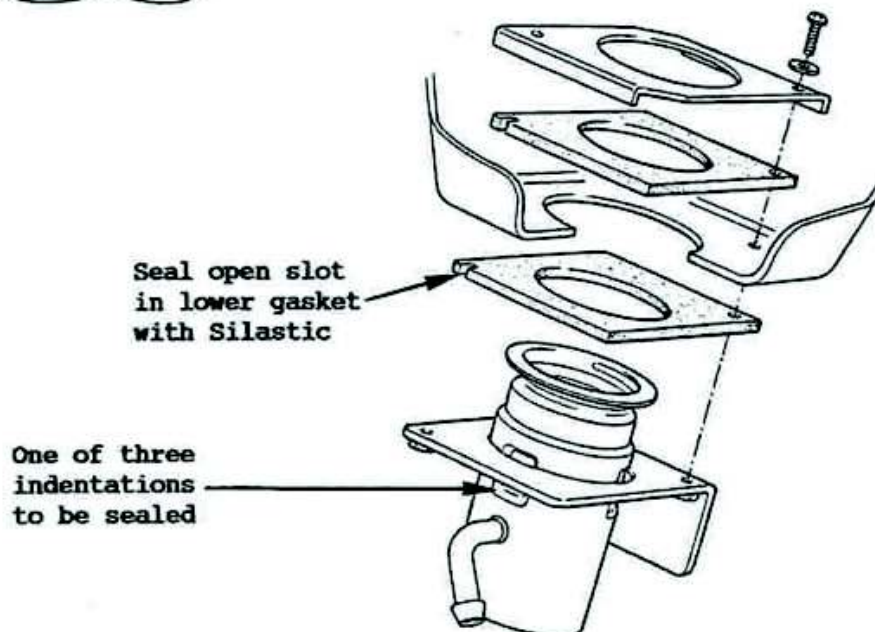
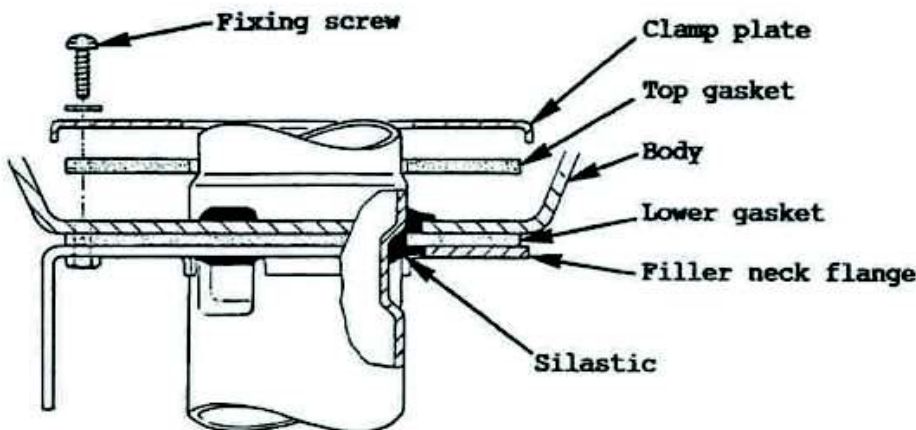


5. Check that the fuel feed pipe is correctly routed before connecting the balance pipe, and securing with the spring clip. Push the two fuel pipe connectors onto the tank spigots.



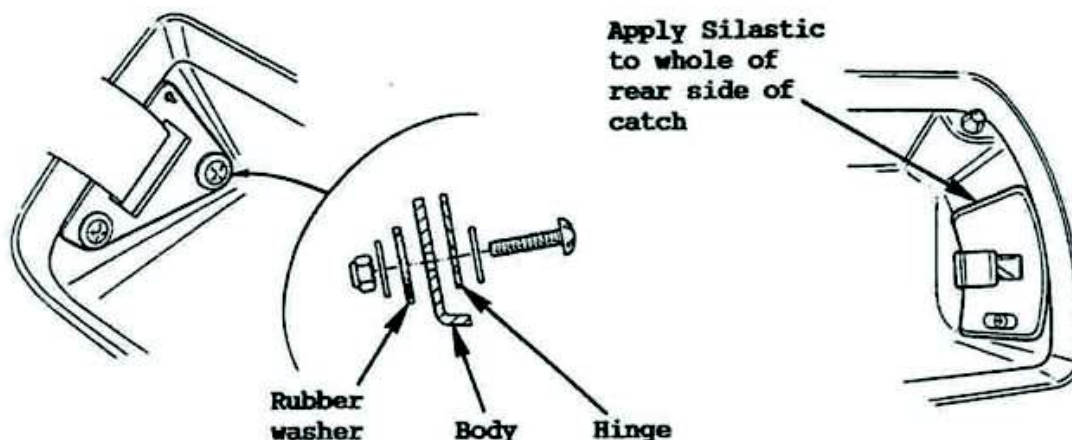
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6. Re-assemble the rear suspension referring to Service Notes section DD, and tighten pivot bolts only with the vehicle at ride height. Ensure the toe-in adjustment eccentric match marks are aligned.
7. Before filling the tank, the filler neck should be removed from the body after releasing the hoses and the two retaining screws, and refitted using the following sealing procedure:
 - With a sealing gasket fitted onto the filler neck mounting flange, use black Silastic to seal the three indentations in the neck (from beneath flange) and between the inside edge of the gasket and the filler neck. Also seal the fixing screw open slot in the gasket.
 - Fit the filler neck into position and push upwards against the body whilst using Silastic to seal between the filler neck and the body.
 - Fit the top gasket and plate, and tighten the two screws.
 - Refit the filler and breather hoses.

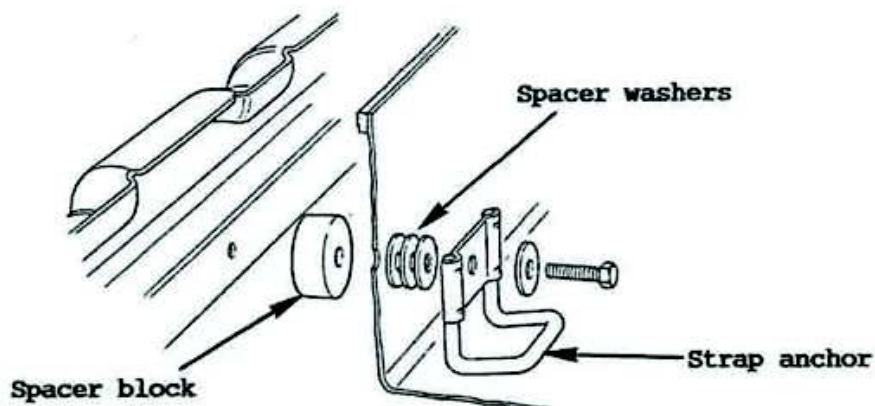


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8. Remove the filler flap catch from the body, and apply black Silastic to the whole of the catch flange before refitting. Remove the filler flap hinge fixings, and reassemble using a rubber washer (A082W4115F) between the flat washer and inside of the body.



9. Fill the tank, reconnect battery, reset inertia switch and start engine to check for leaks from the fuel pipe connections.
10. Refit the tank access panel and roof stowage compartment floor in reverse order to removal. When refitting the roof stowage strap front anchor, ensure that the washers and alloy spacer block are fitted correctly. See diagram.



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CHARGES: 2.5 hr/car. Warranty claims marked S/B 1990/16 Class 2 should be submitted.