

CONTENTS

Operation	Operation No.	Page No.
Exhaust manifold—Remove and refit	30.15.10	30—4
Exhaust system complete—Remove and refit	30.10.01	30—3
Exhaust trim—Remove and refit	30.10.23	30—4
Front pipe—Remove and refit	30.10.09	30—3
Induction manifold—Remove and refit	30.15.02	30—4
Intermediate pipe—Remove and refit	30.10.11	30—3
Mounting rubber—front—Remove and refit	30.20.02	30—5
Mounting rubber—rear—Remove and refit	30.20.04	30—5
Rear intermediate pipe—Remove and refit—Left-hand	30.10.24	30—4
Rear intermediate pipe—Remove and refit—Right-hand	30.10.25	30—4
Silencer assembly—Remove and refit—Left-hand	30.10.15	30—3
Silencer assembly—Remove and refit—Right-hand	30.10.16	30—3
Tail pipe and silencer—Remove and refit	30.10.22	30—3

MANIFOLD AND EXHAUST SYSTEM—6 Cylinder Engines

KEY TO EXHAUST SYSTEM

1. Catalyst
2. Down-pipe
3. Front silencer
4. Rear intermediate pipe
5. Front intermediate pipe
6. Tail pipe and silencer
7. Exhaust trim

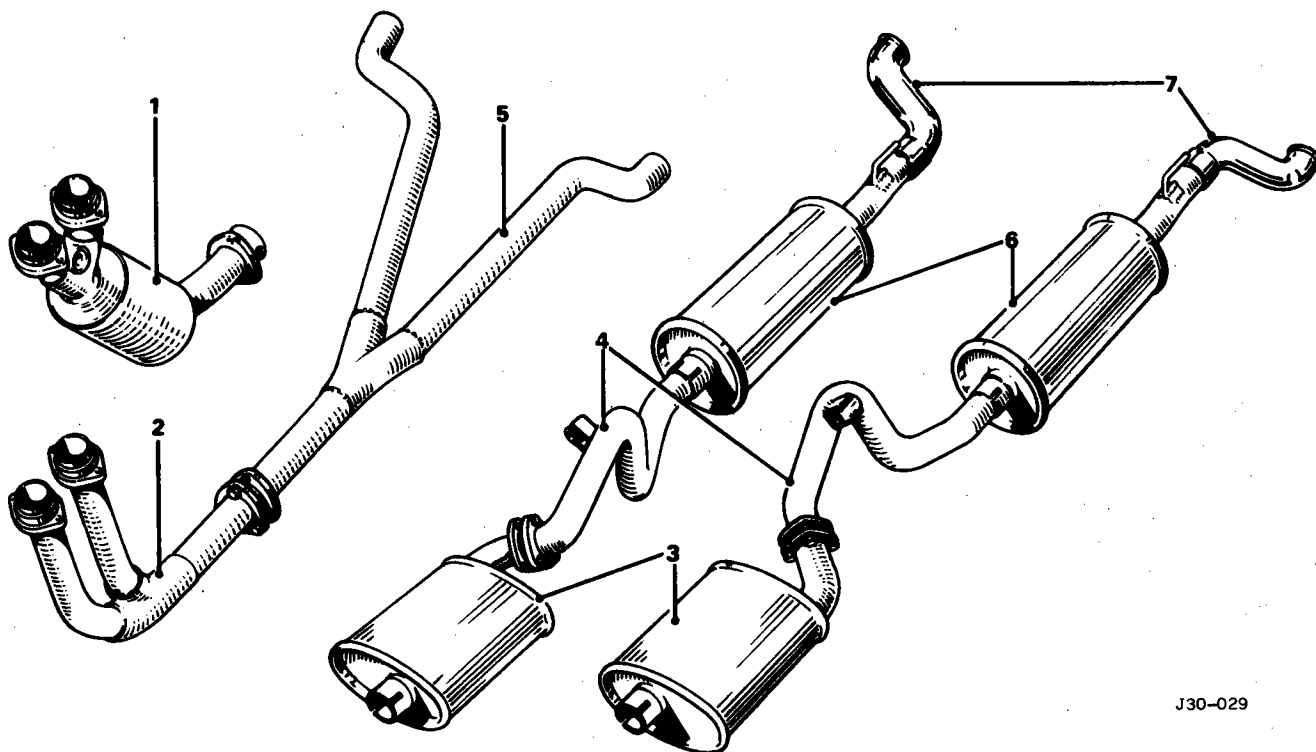


Fig. 1

J30-029

EXHAUST SYSTEM COMPLETE

Remove and refit 30.10.01

Removing

In the luggage compartment, remove the two self-locking nuts securing each rear silencer mounting (1, Fig. 2).

Remove the three nuts, bolts and washers securing the down-pipe/intermediate pipe flange (2, Fig. 2).

Release the clamp at the rear of forward silencer assembly (3, Fig. 2).

Separate the intermediate pipe and the forward silencer assemblies from the rear intermediate pipes, taking care to avoid damage to the catalyst unit, if fitted.

Release the clamp at the tail pipe and silencers and from the rear intermediate pipes (4, Fig. 2). Draw the rear intermediate pipes rearwards from the mounting rubbers and suspension unit (5, Fig. 2).

Remove the screws and separate the trim from the tail pipe and silencers (6, Fig. 2).

Draw the tail pipe and the silencer forwards from the body (7, Fig. 2).

Remove the nuts, bolts and washers securing the heat shield at exhaust manifold/front pipe joint (8, Fig. 2).

Remove the special nuts and plain washers at each exhaust manifold and draw the front pipe downwards. Recover the heat shield brackets.

CAUTION: Take great care to avoid damaging steering rack gaiter.

Check the condition of the mounting rubbers in the rear suspension unit and mounting brackets and renew as necessary.

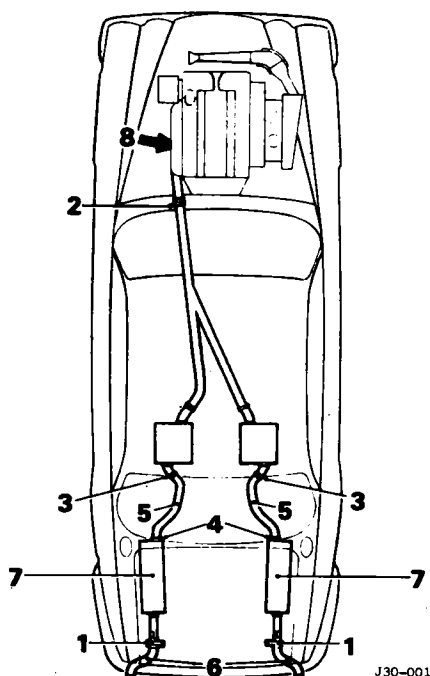


Fig. 2

Refitting

When refitting use Firegum on all joints, assemble the components completely before tightening all clamps and screws.

FRONT PIPE

Remove and refit 30.10.09

Removing

Remove the nuts, bolts and washers securing the heat shield at exhaust manifold/front pipe joint (1, Fig. 3).

Remove the special nuts and plain washers at each exhaust manifold (2, Fig. 3).

Beneath the car remove the three nuts, bolts and washers securing front pipe/intermediate pipe flange (3, Fig. 3).

Draw the front pipe downwards and remove.

CAUTION: Take great care to avoid damaging the steering rack gaiter.

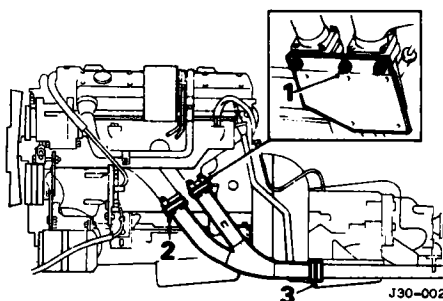


Fig. 3

Refitting

Reverse the above procedure to refit, using new seals. Apply Firegum at front pipe/intermediate pipe joint.

INTERMEDIATE PIPE

Remove and refit 30.10.11

Removing

Remove the nuts, bolts and washers securing the flange (1, Fig. 4).

Release the clamp at the front end of both forward silencer and assemblies (2, Fig. 4).

Remove the pipe, taking care to avoid damage to catalyst unit, if fitted (3, Fig. 4).

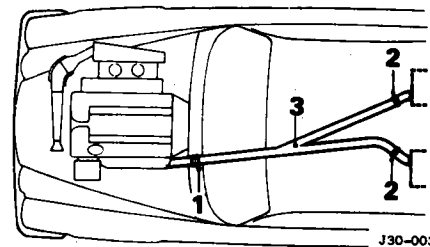


Fig. 4

Refitting

When refitting, use Firegum to seal joint to silencer and front pipe. Use new seal at front pipe/intermediate pipe flange.

SILENCER ASSEMBLY

Remove and refit Left-hand 30.10.15 Right-hand 30.10.16

Removing

Remove the intermediate pipe. Slacken the clamp and draw the silencer from the rear intermediate pipe (1, Fig. 5).

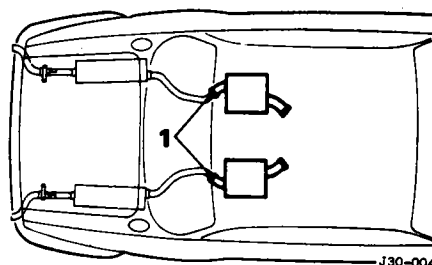


Fig. 5

Refitting

When refitting use Firegum to seal the joints.

TAIL PIPE AND SILENCER

Remove and refit Left-hand or Right-hand 30.10.22

Removing

Remove the Allen grub screw and separate the trim from tail pipe (1, Fig. 6).

Release the clamp to the rear intermediate pipe and separate (2, Fig. 6).

Draw the tail pipe and silencer forwards down through the tunnel to clear the mounting rubber (3, Fig. 6).

Check the condition of the mounting, and renew as necessary.

continued

MANIFOLD AND EXHAUST SYSTEM—6 Cylinder Engines

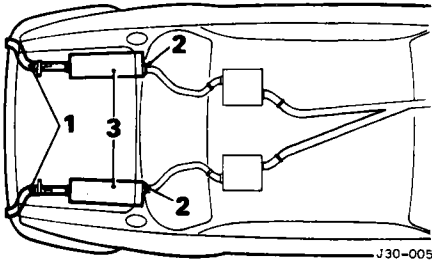


Fig. 6

Refitting

When refitting coat the joint with Firegum.

NOTE: Cars to U.S.A. Federal Specification must have a distance of 38 mm (1.5 in) between top surface of exhaust trim and lower surface of energy absorbing beam.

EXHAUST TRIM

Remove and refit 30.10.23

Remove the grub screw using an Allen key and separate trim from tail pipe and silencer (1, Fig. 7).

Use Firegum to seal the joint when refitting.

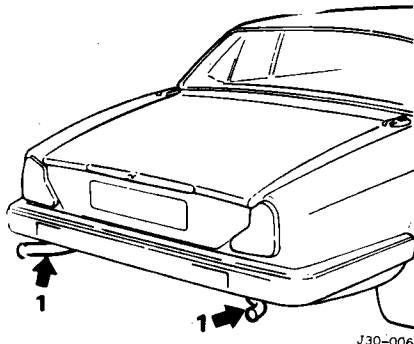


Fig. 7

NOTE: Cars to U.S.A. Federal Specification must have a distance of 38 mm (1.5 in) between the top surface of exhaust trim and lower surface of energy absorbing beam.

REAR INTERMEDIATE PIPE

Remove and refit

Left-hand 30.10.24
Right-hand 30.10.25

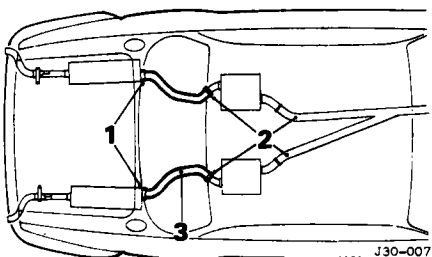


Fig. 8

Release the clamp to the tail pipe and silencer and separate (1, Fig. 8).

Support the intermediate pipe, release the clamp to silencer and separate (2, Fig. 8).

Draw the rear intermediate pipe from the suspension unit (3, Fig. 8).

Check the condition of mounting rubbers, and renew as necessary.

Reverse above procedure to refit. Always use Firegum to seal the joints.

INDUCTION MANIFOLD

Remove and refit 30.15.02

Remove the radiator header tank cap and open the radiator drain tap to drain coolant.

NOTE: Conserve coolant if anti-freeze is in use.

Depressurize the fuel system.

Remove the air cleaner and the air-flow meter from the throttle housing.

Remove the servo hose from NR valves, hoses from throttle housing. Disconnect the cables from the air-flow meter throttle switch.

Remove the throttle cable, kick-down cable and service interval counter (if fitted).

Remove the breather pipe and fuel feed pipe from the fuel rail. Remove the thermostat housing.

Remove the ignition amplifier coil and harness. Remove the distributor cap and H.T. cables.

Remove the connector from the auxiliary air valve cold start injector, coolant temperature sensor, and Thermotime switch.

Remove the F.I. harness, disconnect the fuel hoses from the cold start injector regulator and fuel rail.

Remove the nuts and withdraw the induction manifold.

Clean gasket surfaces.

To refit reverse above procedure. Use new gaskets.

EXHAUST MANIFOLD

Remove and refit 30.15.10

Removing

Cars fitted with emission control only

Remove the two cross-head screws and washers securing the hot air duct to the camshaft covers (1, Fig. 9).

Pull the hot air duct from the exhaust manifold heat shield (2, Fig. 9).

Cars to U.S.A. Federal Specification only

Remove the nut, washers, spacer and bolt securing the air delivery pipe clip to the exhaust manifold heat shield (3, Fig. 9).

Pull the air delivery pipe from the air pump outlet elbow (4, Fig. 9).

Slacken the locknuts on the air pump belt

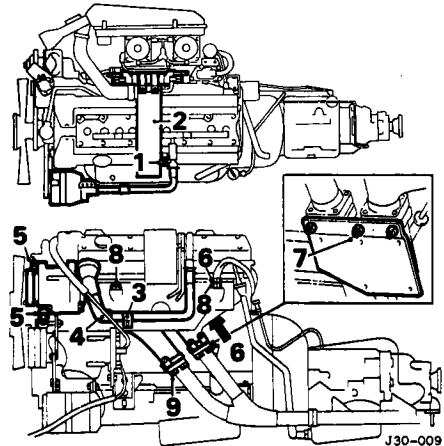


Fig. 9

adjustment, remove the air pump belt from the pulley and draw pump as far as possible away from the cylinder head (5, Fig. 9).

Restrain the adaptor and release the nut securing the E.G.R. pipe.

Rear manifold only on cars with SU carburettors

Slacken the pipe clip and pull hot air pipe from the A.E.D. hot air pick-up unit (6, Fig. 9).

Left-hand-drive cars only

Remove the three 2 B.A. nuts, bolts and washers securing the steering pinion heat shield (7, Fig. 9).

Remove the setscrews/adaptor and washers securing the exhaust manifold heat shield to the exhaust manifolds (8, Fig. 9).

NOTE: Do not mislay the restrictor from the E.G.R. adaptor (fixed orifice system only).

Cars fitted with air conditioning only

Remove the compressor heat shield.

Remove the eight nuts and the washers securing the exhaust manifolds to the exhaust front pipes (9, Fig. 9).

Remove the eight nuts and washers securing each exhaust manifold to the cylinder head.

Remove the three screws securing the hot air pick-up unit to the rear exhaust manifold.

Clean all traces of gaskets from the joint faces.

Refitting

Reverse the above procedures as appropriate, using new gaskets and seals throughout.

NOTE: After loosely securing the exhaust manifolds to the cylinder head, locate the exhaust front pipe on studs before finally tightening manifold nuts.

MOUNTING RUBBER — FRONT

Remove and refit 30.20.02

Removing

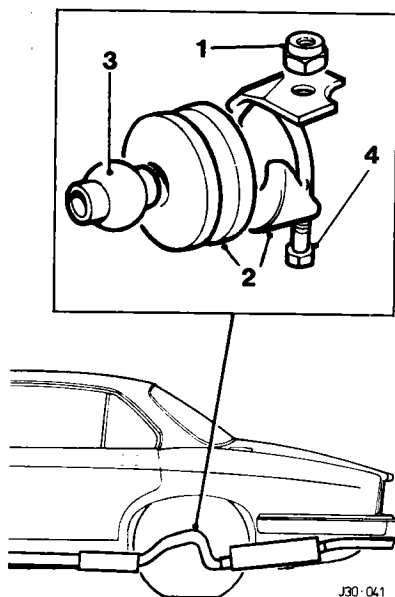
Reach over the rear suspension unit and release the self-locking nut and bolt securing the rear mounting bracket (1, Fig. 10).

Slide the bracket from the spigot on the rear intermediate pipe and remove.

When refitting locate the replacement mounting rubber in the bracket ring, noting that the brackets are handed (2, Fig. 10).

Smear the bush with soft soap and press into the mounting rubber (3, Fig. 10).

Locate the bush on the spigot and secure using the bolt from below and self-locking nut (4, Fig. 10).



MOUNTING RUBBER — REAR

Remove and refit 30.20.04

Remove the tail pipe and silencer (1, Fig. 11).

In the luggage boot, remove the two self-lockers securing the rear mounting (2, Fig. 11).

