

**Exhaust System****25**

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TECHNICAL DATA

Tightening Torques

				<u>Nm</u>	<u>kgf.m</u>	<u>lbf.ft</u>
Front exhaust pipe at turbocharger (M8 hardware)	..	..	..	19 to 23	1,9 to 2,3	14 to 17
(M10 hardware)	..	..	..	35 to 47	3,5 to 4,7	26 to 35
Flange connection front exhaust pipe/front muffler	..	..	..	35 to 40	3,5 to 4,0	26 to 30
Clamps	..	..	..	38 to 45	3,8 to 4,5	28 to 33

Sealants

Exhaust jointing compound SPM 4G 9100-A

TECHNICAL DATA (cont'd)

Service Exhaust System

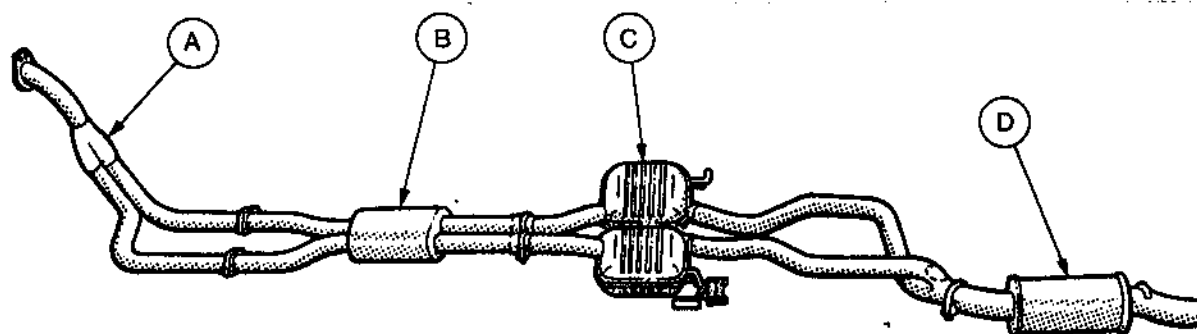
As the production and service exhaust systems differ, the front service muffler cannot be replaced with the production rear muffler system. If the front muffler needs replacement before the rear muffler assembly, the centre muffler assembly must also be replaced.

NOTE: When reversing onto some ramps, it may be necessary to raise the front of the vehicle to prevent damage to the front spoiler and/or exhaust flange connection.

The service exhaust system consists of four parts (see Fig.1.):

Front downpipe, front muffler, two intermediate centre mufflers and rear muffler

The parts required for service are fitted with connector tubes and clamps.



COS-25-1

Fig.1. Service exhaust system components.

A - Front downpipe

B - Front muffler

C - Centre muffler assembly

D - Intermediate rear muffler

SERVICE AND REPAIR OPERATIONS

25 204 0 EXHAUST SYSTEM - REPLACE

SPECIAL TOOLS REQUIRED: NONE

NOTE: This operation does not include the front down pipe from turbo to flange joint.

To Remove

1. Open hood, fit fender covers and disconnect battery. Disconnect front pipe to exhaust system flange joints (Fig.2).
2. Support exhaust system, unhook rubber insulators from front and rear muffler assembly and carefully remove exhaust system.

NOTE: Production exhaust assembly is of one piece construction.

To Install

3. Inspect rubber insulators for cracks, splits or damage, replace as necessary.
4. Clean front exhaust pipe flanges.
5. Fit rubber insulators to exhaust system brackets, lift exhaust system into position, secure rubber insulators to body brackets.
6. Reconnect exhaust system to front pipe flanges, torque joints to specification.
7. Reconnect battery. Start engine and check exhaust system for leaks. Remove fender covers and close hood.

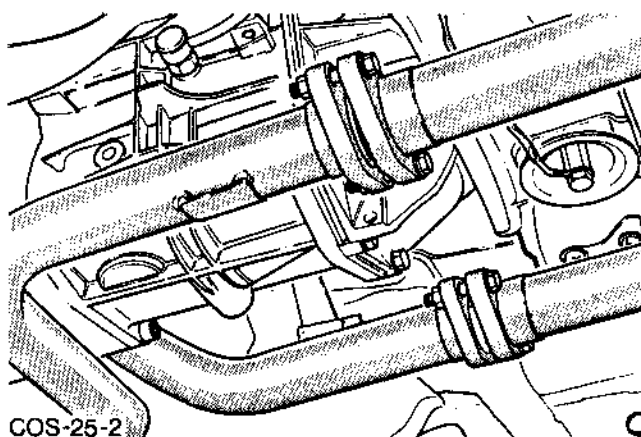


Fig.2. Front pipe flange connection.

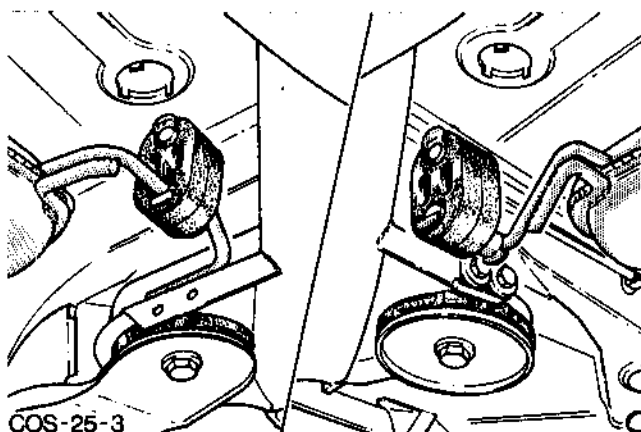


Fig.3. Centre muffler assembly rubber insulators.

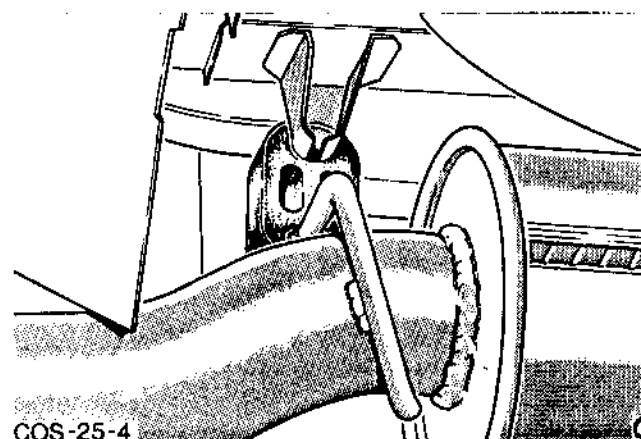


Fig.4. Rear muffler insulator assembly.

25 223 0 MUFFLER FRONT - REPLACE

SPECIAL TOOLS REQUIRED: NONE

Service jointing sleeves are not available for the SIERRA RS COSWORTH. The front muffler of the production mounted exhaust system can only be replaced together with the two centre mufflers. This operation assumes that the centre exhaust section has already been replaced.

To Remove

1. Open hood, fit fender covers and disconnect battery. Raise vehicle on ramp. Support front exhaust pipe.
2. Disconnect flanges between front exhaust pipe and front muffler, Fig.5, and the clamps between front and centre mufflers, Fig.6. Remove muffler assembly.

To Install

3. Clean connector and apply sealant (see Technical Data) to front muffler joint.
4. Fit front muffler. Loosely secure the front pipe flange clamp connections to muffler assembly.
5. Check that the exhaust system is in the correct installation position and tighten flange clamp and front pipe connections to the specified torque.
6. Reconnect battery, start engine and check exhaust system for leaks. Lower vehicle.
7. Remove fender covers and close hood.

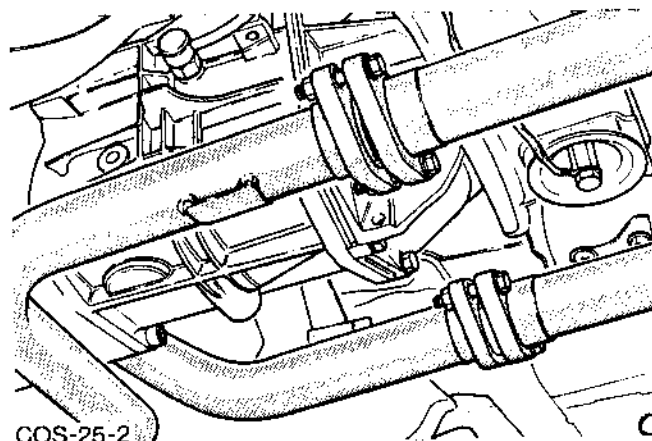


Fig.5. Front flange connections.

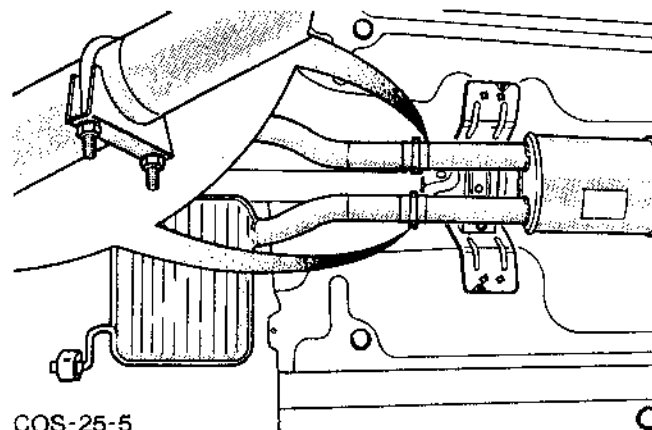


Fig.6. Clamps between front muffler and centre mufflers.

25 243 0 MUFFLER REAR - REPLACE

SPECIAL TOOLS REQUIRED: NONE

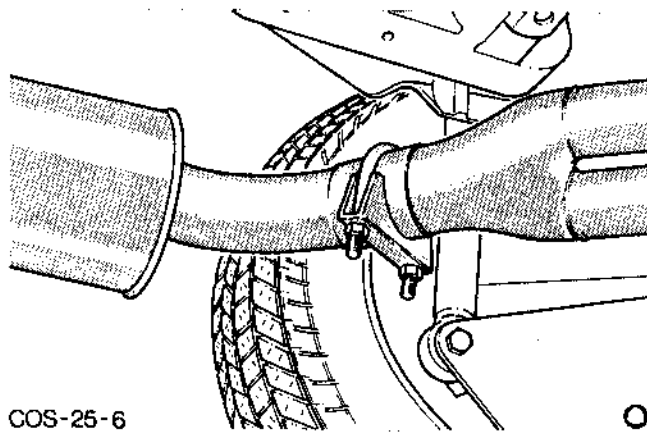
To Remove

1. Open hood, fit fender covers and disconnect battery.
2. Raise vehicle on ramp. Remove rear muffler clamp.
3. Unhook rubber insulator and remove rear muffler assembly.

NOTE: Inspect rubber insulators for cracks and splits before unhooking rear muffler, this can be achieved by applying light downward pressure on the rear muffler and observing rubber insulator.

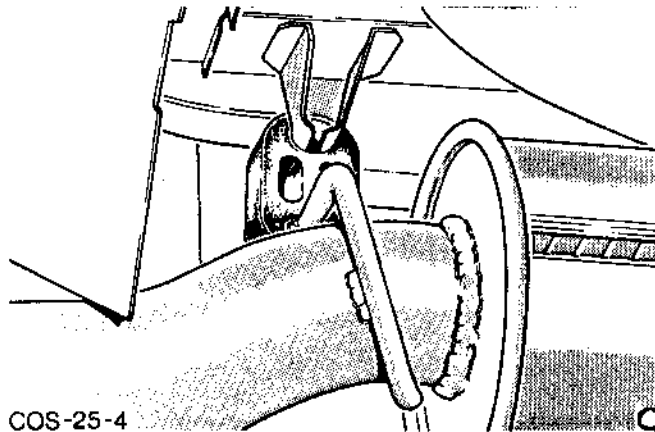
To Install

4. Clean joint and apply sealant (see Technical Data).
5. Position exhaust system onto centre pipe assembly. Fit insulator to rear muffler and hook insulator onto body bracket.
6. Align rear muffler assembly and tighten clamp to correct torque, (see Technical Data).
7. Reconnect battery.
8. Start engine and check exhaust system for leaks. Lower vehicle, remove fender covers and close hood.



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Fig.7. Rear muffler clamp.



COS-25-4

Fig.8. Rubber insulator, rear muffler.

25 263 0 EXHAUST PIPE - FRONT - RIGHT - REPLACE

SPECIAL TOOLS REQUIRED: NONE

NOTE: When M10 studs are fitted, the tab washers are deleted and self-locking nuts are used which should be replaced after removal.

To Remove

1. Open hood, fit fender covers and disconnect battery.
2. Raise vehicle and disconnect front pipe to exhaust system flanges.
3. Bend back lock tabs and remove the three nuts securing front pipes to turbocharger. Remove front pipe from vehicle.

NOTE: Care should be taken when removing these nuts as high temperatures may cause the nuts to seize to the studs.

4. Clean turbocharger flange with wire brush, ensure dirt does not enter turbocharger during this cleaning operation.

To Install

5. Locate front pipe in position, loosely securing turbocharger flange and front pipe exhaust system flanges.
6. Ensure front pipe is free from strain, secure front pipe flange to turbocharger using new nuts and lock tabs. Tighten nuts to correct torque and bend over lock tabs.
7. Secure front pipe to exhaust system flanges, fully tighten joints.
8. Reconnect battery, start engine and check system for exhaust leaks.
9. Remove fender covers and close hood.

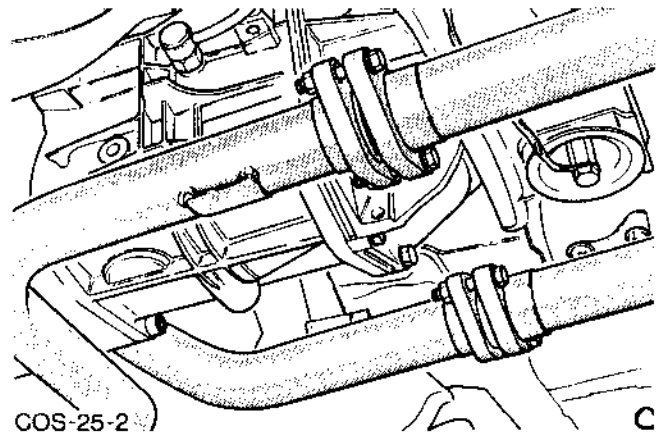


Fig.9. Disconnect front pipe to exhaust system flanges.

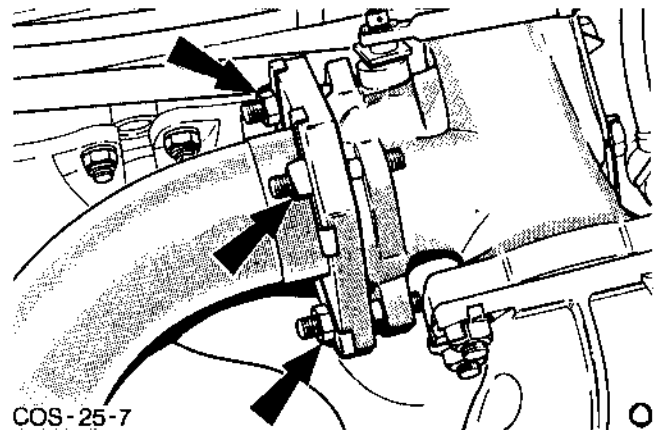


Fig.10. Turbo charger to front pipe securing nuts and lock tabs.

