

Component Procedures: Exhaust Pipe

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Component Procedures: Exhaust Pipe

Parts and Labor (itype_189)

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Exhaust System > Muffler & Pipe Assembly, R&R?	B	1.3	0.0

Exhaust Tail Pipe Flow Valve Vacuum Pipe Replacement - Chassis Rear (Intermediate Vacuum Pipe Between Front and Rear Chassis Vacuum Pipes) (Article 11995)

Removal Procedure

- Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
- Remove the exhaust muffler intermediate heat shield . Refer to Exhaust Muffler Intermediate Heat Shield Replacement .
- Disconnect the quick connect fitting (1) to the front chassis vacuum line (2). Refer to Plastic Collar Quick Connect Fitting Service . Click for full-size image
- Disconnect the vacuum hose fitting (3) to the intermediate pipe and remove the intermediate vacuum pipe from the parking brake cable with the clips (4).
- Remove the intermediate vacuum pipe between the front and rear chassis vacuum pipes.

Installation Procedure

- Install the front chassis vacuum pipe (2) to the intermediate vacuum pipe quick connect fitting (1). Click for full-size image
- Connect the rear chassis quick connect fitting (3) to the intermediate vacuum pipe and connect the retainer clips (4) to the park brake cable.
- Install the exhaust muffler intermediate heat shield. Refer to Exhaust Muffler Intermediate Heat Shield Replacement .
- Install the rear muffler. Refer to Exhaust Muffler with Resonator, Exhaust, and Tail Pipe Replacement .

Exhaust Tail Pipe Flow Valve Vacuum Pipe Replacement - Chassis Rear (Vacuum Pipe Between Exhaust Vacuum Valves) (Article 11996)

Callout Component Name

Preliminary Procedure Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

Preliminary Procedure

Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

1 Quick Disconnect Vacuum Pipe Fittings (Qty: 2)

2 Vacuum Pipe Retainers

3 Vacuum Pipe

Exhaust Tail Pipe Flow Valve Vacuum Pipe Replacement - Chassis Rear (Vacuum Tank to Intermediate Vacuum Pipe) (Article 11997)

Removal Procedure

- Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
- Disconnect the quick connect fitting (1) to the intermediate vacuum line. Refer to Plastic Collar Quick Connect Fitting Service . Click for full-size image
- Disconnect the quick disconnect fitting (3) and remove the vacuum pipe from the retainers (2).
- Remove the rear chassis vacuum pipe.

Installation Procedure

- Install the rear chassis vacuum pipe into the retainers (2). Click for full-size image
- Connect the rear chassis quick connect fitting (3) to the solenoid valve vacuum pipe.
- Install the quick connect fitting (1) to the intermediate vacuum pipe.
- Lower the vehicle.

Exhaust Tail Pipe Flow Valve Vacuum Pipe Replacement - Reservoir Tank to Valve Solenoid (Reservoir Vacuum Tank to Exhaust Solenoid) (Article 11998)

Callout Component Name

Preliminary Procedure Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

Preliminary Procedure

Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

1 Exhaust Valve Solenoid

2 Vacuum Fittings

3 Vacuum Tank Procedure Disconnect the fittings (2) on the valve solenoid (1) and the vacuum tank. Remove the vacuum hose.

Procedure

- Disconnect the fittings (2) on the valve solenoid (1) and the vacuum tank.
- Remove the vacuum hose.

Exhaust Tail Pipe Flow Valve Vacuum Pipe Replacement - Valve Solenoid to Control Valves (Left Exhaust Valve) (Article 11999)

Callout Component Name

Preliminary Procedure Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

Preliminary Procedure

Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

1 Left Exhaust Valve Solenoid Vacuum Fitting

2 Left Exhaust Vacuum Valve

3 Vacuum Fitting to Right Exhaust Valve

4 Left Exhaust Valve Vacuum Pipe Procedure Disconnect the fitting (1) on the left exhaust valve. Disconnect the vacuum fitting (3) and remove the left exhaust valve vacuum pipe (4).

Procedure

- Disconnect the fitting (1) on the left exhaust valve.
- Disconnect the vacuum fitting (3) and remove the left exhaust valve vacuum pipe (4).

Exhaust Tail Pipe Flow Valve Vacuum Pipe Replacement - Valve Solenoid to Control Valves (Right Exhaust Valve) (Article 12000)

Callout Component Name

Preliminary Procedure Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

Preliminary Procedure

Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

1 Right Exhaust Valve Solenoid Vacuum Fitting

2 Exhaust Valve Solenoid Vacuum Fitting

3 Vacuum Fitting to Left Exhaust Valve

4 Right Exhaust Valve Vacuum Pipe Procedure Disconnect the fittings (1) on the right exhaust valve and the exhaust valve solenoid (2). Disconnect the vacuum fitting (3) and remove the right exhaust valve vacuum pipe (4).

Procedure

- Disconnect the fittings (1) on the right exhaust valve and the exhaust valve solenoid (2).
- Disconnect the vacuum fitting (3) and remove the right exhaust valve vacuum pipe (4).

All Technical Service Bulletins (itype_100)

Tsbs

- Exhaust System - Rattle Noise From The Exhaust System (PIC6006, 2014/06/13)

Repair Tips (itype_110)

Tsbs

- Exhaust System - Rattle Noise From The Exhaust System (PIC6006, 2014/06/13)