

Nissan VERSA 2007-2014 Workshop Repair Service Manual

TRIM CHAIN

REMOVAL AND INSTALLATION

TRIM CHAIN

Exploded View

1. Trim chain
2. Trim chain bracket
3. Trim chain cover
4. Trim chain cover screw
5. Trim chain cover pin
6. Trim chain cover clip
7. Trim chain cover nut
8. Trim chain cover washer
9. Trim chain cover seal
10. Trim chain cover gasket
11. Trim chain cover O-ring
12. Trim chain cover O-ring seal
13. Trim chain cover O-ring seal
14. Trim chain cover O-ring seal
15. Trim chain cover O-ring seal
16. Trim chain cover O-ring seal
17. Trim chain cover O-ring seal
18. Trim chain cover O-ring seal
19. Trim chain cover O-ring seal
20. Trim chain cover O-ring seal

Removal and Installation

Removal:

- Remove the trim chain cover from the rear of the engine room.
- Remove the trim chain cover from the rear of the engine room.

Installation:

- Install the trim chain cover from the rear of the engine room.
- Install the trim chain cover from the rear of the engine room.

Revised: April 2014

REAR WIPER AND WASHER SYSTEM

REMOVAL AND INSTALLATION

REAR WIPER AND WASHER SYSTEM

Exploded View

1. Wiper motor
2. Wiper arm
3. Wiper blade
4. Washer nozzle
5. Washer pump
6. Washer fluid reservoir
7. Washer fluid reservoir cap
8. Washer fluid reservoir gasket
9. Washer fluid reservoir O-ring
10. Washer fluid reservoir O-ring seal
11. Washer fluid reservoir O-ring seal
12. Washer fluid reservoir O-ring seal
13. Washer fluid reservoir O-ring seal
14. Washer fluid reservoir O-ring seal
15. Washer fluid reservoir O-ring seal
16. Washer fluid reservoir O-ring seal
17. Washer fluid reservoir O-ring seal
18. Washer fluid reservoir O-ring seal
19. Washer fluid reservoir O-ring seal
20. Washer fluid reservoir O-ring seal

Removal and Installation

Removal:

- Remove the wiper motor from the rear of the engine room.
- Remove the wiper arm from the rear of the engine room.
- Remove the wiper blade from the rear of the engine room.
- Remove the washer nozzle from the rear of the engine room.

Installation:

- Install the wiper motor from the rear of the engine room.
- Install the wiper arm from the rear of the engine room.
- Install the wiper blade from the rear of the engine room.
- Install the washer nozzle from the rear of the engine room.

Revised: April 2014

EXHAUST SYSTEM

REMOVAL AND INSTALLATION

EXHAUST SYSTEM

Exploded View

1. Exhaust manifold
2. Exhaust pipe
3. Exhaust tailpipe
4. Exhaust manifold gasket
5. Exhaust pipe gasket
6. Exhaust tailpipe gasket
7. Exhaust manifold O-ring
8. Exhaust pipe O-ring
9. Exhaust tailpipe O-ring
10. Exhaust manifold O-ring seal
11. Exhaust pipe O-ring seal
12. Exhaust tailpipe O-ring seal
13. Exhaust manifold O-ring seal
14. Exhaust pipe O-ring seal
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16. Exhaust manifold O-ring seal
17. Exhaust pipe O-ring seal
18. Exhaust tailpipe O-ring seal
19. Exhaust manifold O-ring seal
20. Exhaust pipe O-ring seal

Removal and Installation

Removal:

- Remove the exhaust manifold from the rear of the engine room.
- Remove the exhaust pipe from the rear of the engine room.
- Remove the exhaust tailpipe from the rear of the engine room.

Installation:

- Install the exhaust manifold from the rear of the engine room.
- Install the exhaust pipe from the rear of the engine room.
- Install the exhaust tailpipe from the rear of the engine room.

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TRANSMISSION ASSEMBLY

REMOVAL AND INSTALLATION

TRANSMISSION ASSEMBLY

Exploded View

1. Transmission housing
2. Transmission input shaft
3. Transmission output shaft
4. Transmission housing gasket
5. Transmission input shaft gasket
6. Transmission output shaft gasket
7. Transmission housing O-ring
8. Transmission input shaft O-ring
9. Transmission output shaft O-ring
10. Transmission housing O-ring seal
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17. Transmission input shaft O-ring seal
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19. Transmission housing O-ring seal
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Removal and Installation

Removal:

- Remove the transmission housing from the rear of the engine room.
- Remove the transmission input shaft from the rear of the engine room.
- Remove the transmission output shaft from the rear of the engine room.

Installation:

- Install the transmission housing from the rear of the engine room.
- Install the transmission input shaft from the rear of the engine room.
- Install the transmission output shaft from the rear of the engine room.

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FRONT DISC BRAKE

REMOVAL AND INSTALLATION

FRONT DISC BRAKE

Exploded View

1. Brake disc
2. Brake pad
3. Brake caliper
4. Brake disc gasket
5. Brake pad gasket
6. Brake caliper gasket
7. Brake disc O-ring
8. Brake pad O-ring
9. Brake caliper O-ring
10. Brake disc O-ring seal
11. Brake pad O-ring seal
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16. Brake disc O-ring seal
17. Brake pad O-ring seal
18. Brake caliper O-ring seal
19. Brake disc O-ring seal
20. Brake pad O-ring seal

Removal and Installation

Removal:

- Remove the brake disc from the rear of the engine room.
- Remove the brake pad from the rear of the engine room.
- Remove the brake caliper from the rear of the engine room.

Installation:

- Install the brake disc from the rear of the engine room.
- Install the brake pad from the rear of the engine room.
- Install the brake caliper from the rear of the engine room.

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TRANSMISSION ASSEMBLY

REMOVAL AND INSTALLATION

TRANSMISSION ASSEMBLY

Exploded View

1. Transmission housing
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8. Transmission input shaft O-ring
9. Transmission output shaft O-ring
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17. Transmission input shaft O-ring seal
18. Transmission output shaft O-ring seal
19. Transmission housing O-ring seal
20. Transmission input shaft O-ring seal

Removal and Installation

Removal:

- Remove the transmission housing from the rear of the engine room.
- Remove the transmission input shaft from the rear of the engine room.
- Remove the transmission output shaft from the rear of the engine room.

Installation:

- Install the transmission housing from the rear of the engine room.
- Install the transmission input shaft from the rear of the engine room.
- Install the transmission output shaft from the rear of the engine room.

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FRONT POWER WINDOW MOTOR

REMOVAL AND INSTALLATION

FRONT POWER WINDOW MOTOR

Exploded View

1. Motor housing
2. Motor input shaft
3. Motor output shaft
4. Motor housing gasket
5. Motor input shaft gasket
6. Motor output shaft gasket
7. Motor housing O-ring
8. Motor input shaft O-ring
9. Motor output shaft O-ring
10. Motor housing O-ring seal
11. Motor input shaft O-ring seal
12. Motor output shaft O-ring seal
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14. Motor input shaft O-ring seal
15. Motor output shaft O-ring seal
16. Motor housing O-ring seal
17. Motor input shaft O-ring seal
18. Motor output shaft O-ring seal
19. Motor housing O-ring seal
20. Motor input shaft O-ring seal

Removal and Installation

Removal:

- Remove the motor housing from the rear of the engine room.
- Remove the motor input shaft from the rear of the engine room.
- Remove the motor output shaft from the rear of the engine room.

Installation:

- Install the motor housing from the rear of the engine room.
- Install the motor input shaft from the rear of the engine room.
- Install the motor output shaft from the rear of the engine room.

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PRIMARY SPEED SENSOR

REMOVAL AND INSTALLATION

PRIMARY SPEED SENSOR

Exploded View

1. Sensor housing
2. Sensor input shaft
3. Sensor output shaft
4. Sensor housing gasket
5. Sensor input shaft gasket
6. Sensor output shaft gasket
7. Sensor housing O-ring
8. Sensor input shaft O-ring
9. Sensor output shaft O-ring
10. Sensor housing O-ring seal
11. Sensor input shaft O-ring seal
12. Sensor output shaft O-ring seal
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14. Sensor input shaft O-ring seal
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18. Sensor output shaft O-ring seal
19. Sensor housing O-ring seal
20. Sensor input shaft O-ring seal

Removal and Installation

Removal:

- Remove the sensor housing from the rear of the engine room.
- Remove the sensor input shaft from the rear of the engine room.
- Remove the sensor output shaft from the rear of the engine room.

Installation:

- Install the sensor housing from the rear of the engine room.
- Install the sensor input shaft from the rear of the engine room.
- Install the sensor output shaft from the rear of the engine room.

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FRONT DRIVE SHAFT

REMOVAL AND INSTALLATION

FRONT DRIVE SHAFT

Exploded View

1. Drive shaft housing
2. Drive shaft input shaft
3. Drive shaft output shaft
4. Drive shaft housing gasket
5. Drive shaft input shaft gasket
6. Drive shaft output shaft gasket
7. Drive shaft housing O-ring
8. Drive shaft input shaft O-ring
9. Drive shaft output shaft O-ring
10. Drive shaft housing O-ring seal
11. Drive shaft input shaft O-ring seal
12. Drive shaft output shaft O-ring seal
13. Drive shaft housing O-ring seal
14. Drive shaft input shaft O-ring seal
15. Drive shaft output shaft O-ring seal
16. Drive shaft housing O-ring seal
17. Drive shaft input shaft O-ring seal
18. Drive shaft output shaft O-ring seal
19. Drive shaft housing O-ring seal
20. Drive shaft input shaft O-ring seal

Removal and Installation

Removal:

- Remove the drive shaft housing from the rear of the engine room.
- Remove the drive shaft input shaft from the rear of the engine room.
- Remove the drive shaft output shaft from the rear of the engine room.

Installation:

- Install the drive shaft housing from the rear of the engine room.
- Install the drive shaft input shaft from the rear of the engine room.
- Install the drive shaft output shaft from the rear of the engine room.

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JG Myers



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this example shows how to model a digital phase locked loop using the mixed signal blockset in a digital phase locked loop

phase detection is performed by a time to digital converter tdc loop filtering is performed by a digital filter and the oscillator is a digitally controlled oscillator dco

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model a digital phase locked loop using the mixed signal blockset in a digital phase locked loop phase detection is performed by a time to digital converter tdc loop filtering is performed by a digital filter and the oscillator is a digitally controlled oscillator dco

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model a digital phase locked loop using the mixed signal blockset in a digital phase locked loop phase detection is performed by a time to digital converter tdc loop filtering is performed by a digital filter and the oscillator is a digitally controlled oscillator dco

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figure 2 simulink phase domain model with the simulink model we can easily simulate noise nonlinearities and the kinds of effects seen in real devices for example the effects of any mismatch between the up current and the down current in the charge pump similarly the simulink model shows us how phase noise is affected by spurs

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in a digital phase locked loop phase detection is performed by a time to digital converter tdc loop filtering is performed by a digital filter and the oscillator is a digitally controlled oscillator dco

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phase locked loops a phase locked loop combines a voltage controlled oscillator and a phase comparator as a feedback system to adjust the oscillator frequency or phase to track an applied frequency modulated or phase modulated signal voltage controlled oscillator blocks a voltage controlled oscillator is one part of a phase locked loop

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this example shows how to model a digital phase locked loop using the mixed signal blockset in a digital phase locked loop phase detection is performed by a time to digital converter tdc loop filtering is performed by a digital filter and the oscillator is a digitally controlled oscillator dco this example demonstrates a behavioral

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this example shows how to use simulink design optimization to tune an all pass filter of a phase lock loop the filter includes a second order low pass filter and a feedthrough gain the feedthrough gain and the second order filter coefficients are tuned to apply a steady state input to the voltage controlled oscillator vco

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that words can't fully describe because sand tray therapy offers a tactile experience it's enjoyable and

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