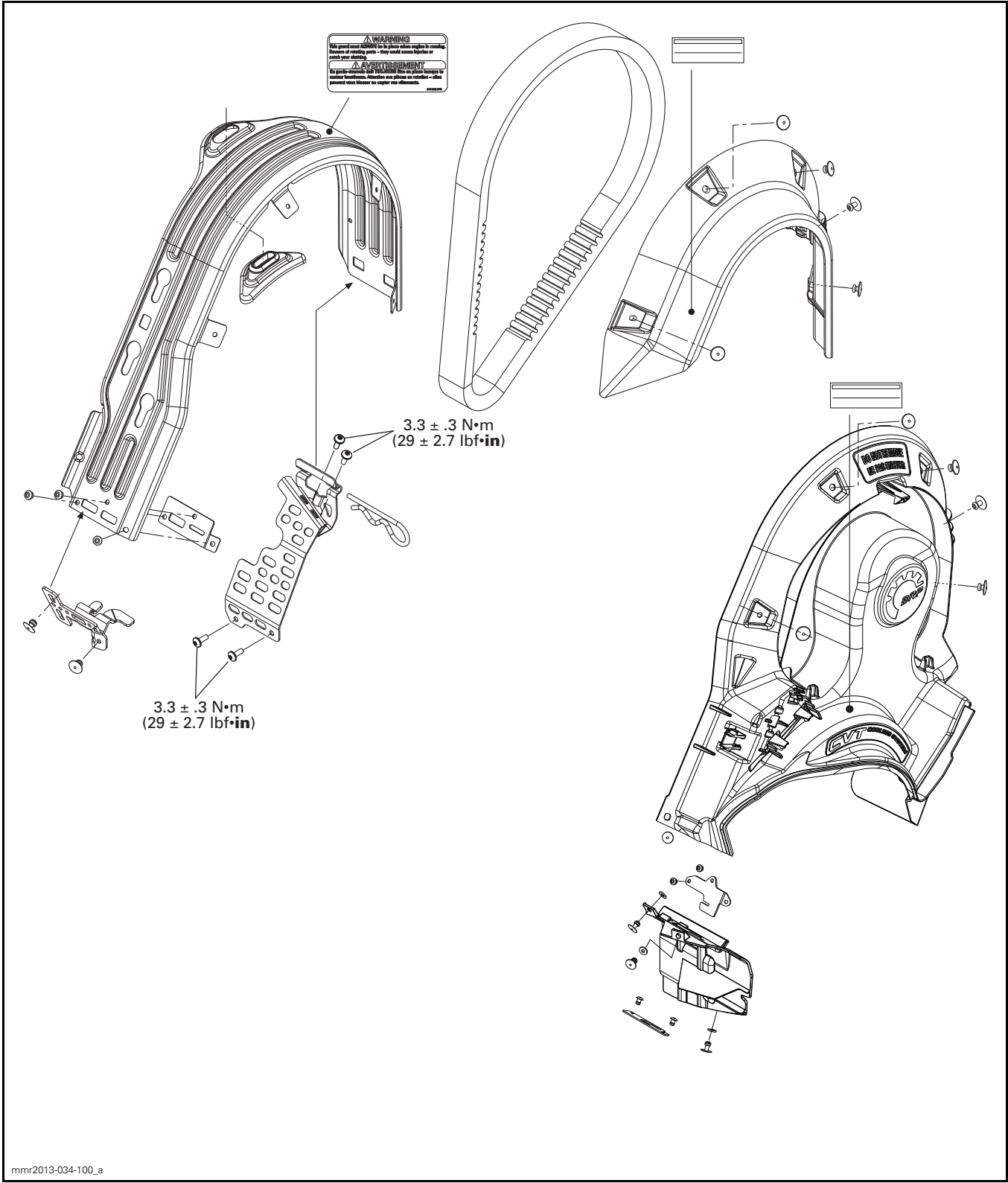


DRIVE BELT

SERVICE TOOLS

Description	Part Number	Page
TENSIOMETER.....	414 348 200	7

Subsection XX (DRIVE BELT)



mmr2013-034-100_a

GENERAL

DRIVE BELT APPLICATION

Always use the drive belt specified in the BRP *PARTS CATALOG* as applicable to vehicle and engine model.

TROUBLESHOOTING

VEHICLE CREEPS FORWARD AT IDLE

1. Improper drive belt height (too high)
- Refer to *DRIVE BELT HEIGHT ADJUSTMENT* procedure in this subsection.

ENGINE STALLS WHEN ENGAGING RER

1. Improper drive belt height (too high)
- Refer to *DRIVE BELT HEIGHT ADJUSTMENT* procedure in this subsection.

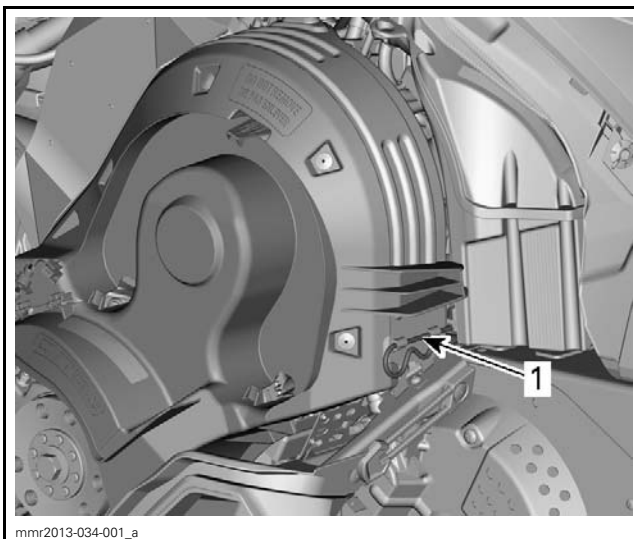
PROCEDURES

DRIVE BELT GUARD

NOTE: Belt guard is purposely made slightly over-size to maintain tension on its pins and retainers preventing undue noise and vibration.

Drive Belt Guard Removal

1. Remove LH side panel.
2. Remove retaining pin.



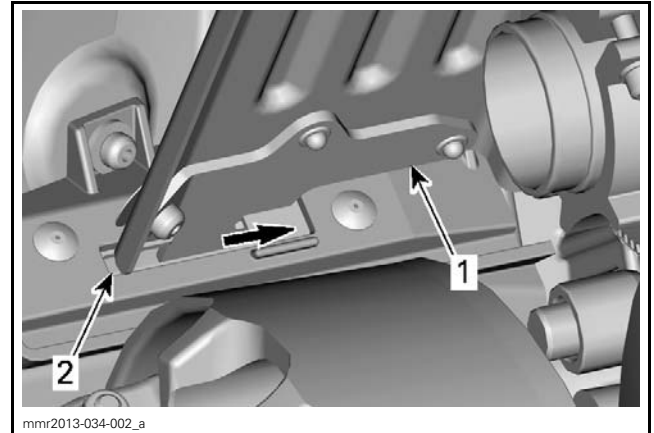
TYPICAL

1. Retaining pin

3. Lift rear portion of guard then release from front tabs.

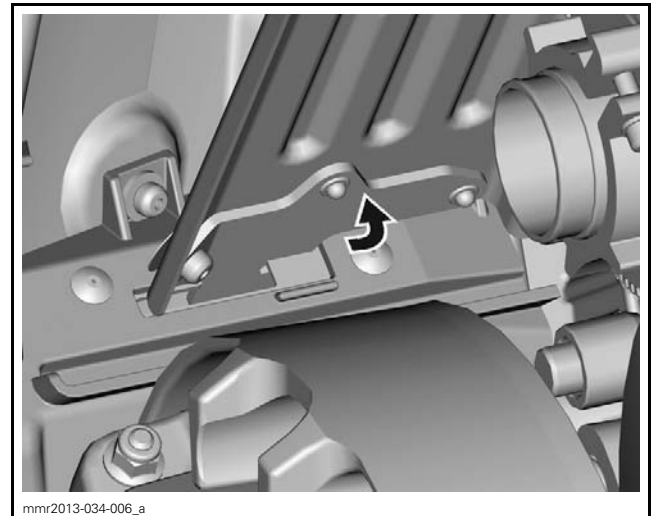
Drive Belt Guard Installation

1. Insert belt guard tab in front support slot.

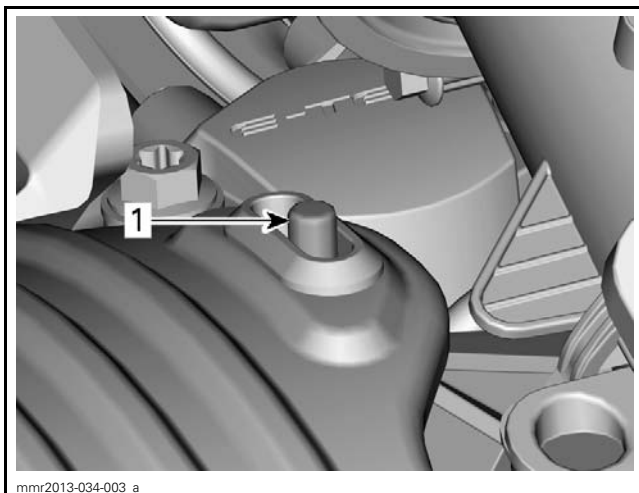


1. Belt guard tab
2. Front support slot

2. Push drive belt guard toward engine then toward front of vehicle.

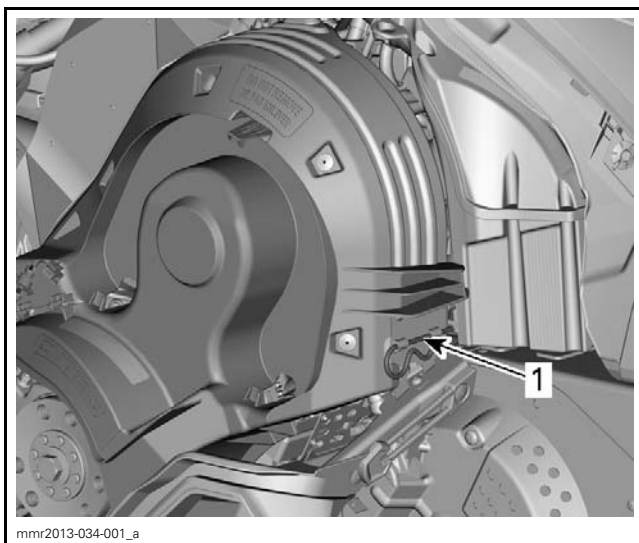


3. Position the grommet over the retaining rod. It may be necessary to slightly lift the console to make room.



1. Retaining rod

4. Position rear portion of the drive belt guard over the retainer and secure it using the retaining pin.

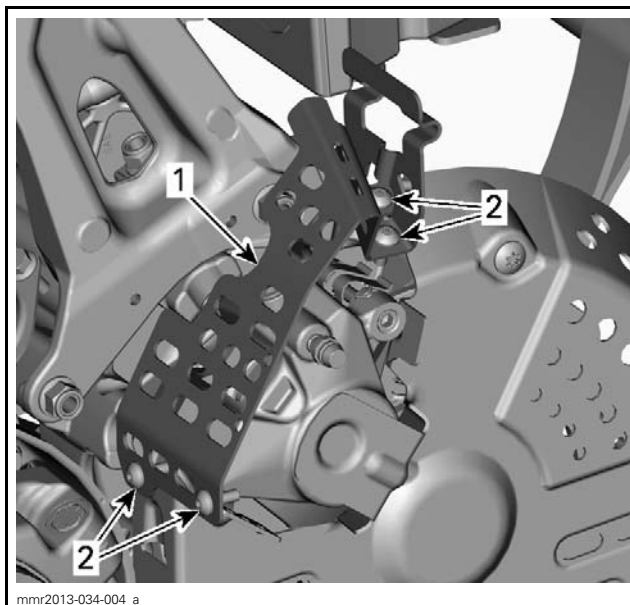


1. Retaining pin

DRIVE BELT GUARD SUPPORT

Drive Belt Guard Support Removal

1. Remove the drive belt guard.
2. Remove screws securing the support to vehicle.



TYPICAL

1. Drive belt guard support
2. Screws

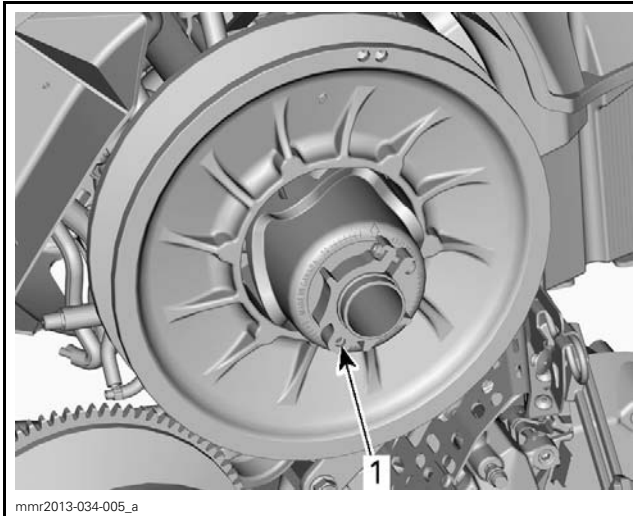
Drive Belt Guard Support Installation

The installation is the reverse of the removal procedure. However pay attention to the following. Tighten screws to 3.5 N•m (31 lbf•in).

DRIVE BELT

Drive Belt Removal

1. Remove tether cord cap from engine cut-off switch.
2. Remove LH side panel.
3. Remove drive belt guard, refer to *DRIVE BELT GUARD REMOVAL*.
4. Insert the driven pulley expander provided in the tool kit in the threaded hole on the adjuster hub as illustrated.



PULLEY EXPANDER TO BE INSTALLED HERE - ON ADJUSTER HUB

5. Open the driven pulley by screwing the tool in.
6. Remove the belt by slipping it over the top of the driven pulley, then out of the drive pulley.

Drive Belt Inspection

Inspect belt for:

- Cracks
- Fraying
- Abnormal wear (uneven wear, wear on one side, missing cogs, torn fabric).

If abnormal wear is noted, the probable cause could be:

- Pulley misalignment
- Excessive RPM with frozen track
- Fast starts without warm-up period
- Scratched or rusty sheave
- Oil on belt
- Distorted spare belt.

Check drive belt width. Replace the drive belt if its width is under minimum recommended specification.

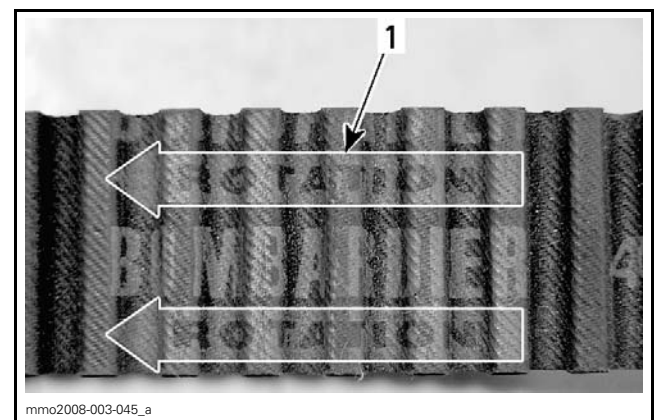
ENGINE	DRIVE BELT	
	NEW	WEAR LIMIT
600 HO E-TEC	38.5 mm (1.516 in)	36.1 mm (1.421 in)
800R E-TEC	38.3 mm (1.508 in)	35.9 mm (1.413 in)

Drive Belt Installation

1. If necessary, open the driven pulley, refer to *DRIVE BELT REMOVAL*.
2. Insert drive belt in the drive pulley, then pull it over the driven pulley.

NOTICE Do not force or use tools to pry the belt into place, as this could cut or break the cords in the belt.

NOTE: The maximum drive belt life span is obtained when the belt is installed with the arrows on the belt pointing in the direction of rotation.



TYPICAL

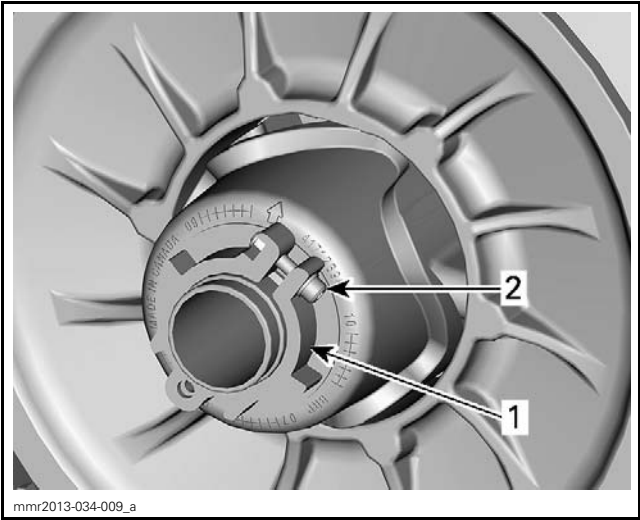
1. To be pointed in the direction of rotation

3. Unscrew and remove the driven pulley expander from the driven pulley.
4. Rotate the driven pulley several times to properly set the belt between the sheaves.
5. Adjust drive belt height. Refer to *DRIVE BELT HEIGHT ADJUSTMENT* procedure.
6. Install drive belt guard, refer to *DRIVE BELT GUARD INSTALLATION*.
7. Install LH side panel.

Drive Belt Height Adjustment

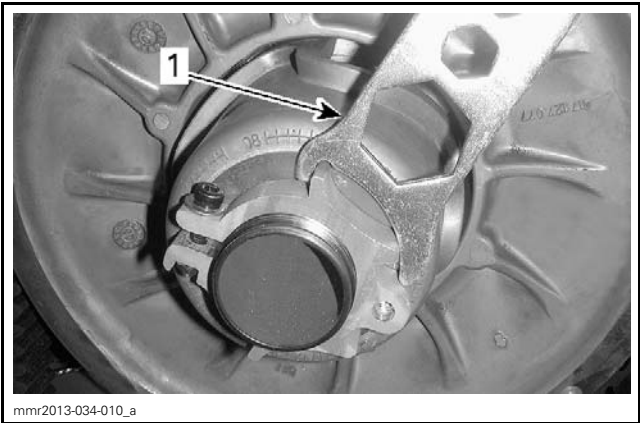
1. Remove tether cord cap from engine cutout switch.
2. Remove LH side panel.
3. Remove drive belt guard, refer to *DRIVE BELT GUARD REMOVAL*.
4. Loosen the clamping screw.

Subsection XX (DRIVE BELT)



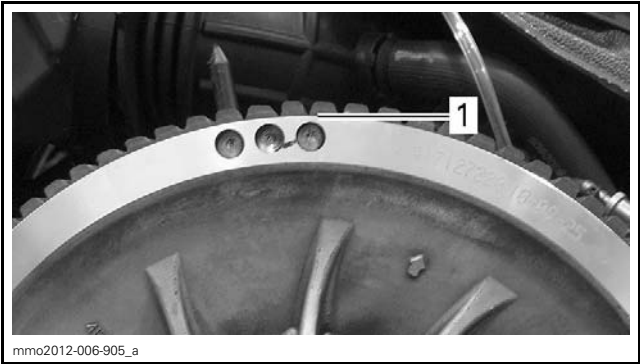
TYPICAL
1. Adjustment ring
2. Clamping screw

5. Using the suspension adjustment tool provided in the tool kit, turn the adjustment ring 1/4 turn at a time then rotate the driven pulley to properly set the belt between the pulley sheaves.



TYPICAL
1. Suspension adjustment tool

NOTE: The adjustment ring has left hand threads. Repeat step 5 until the lowest portion of the cogs on the external surface of drive belt is even with the driven pulley edge.

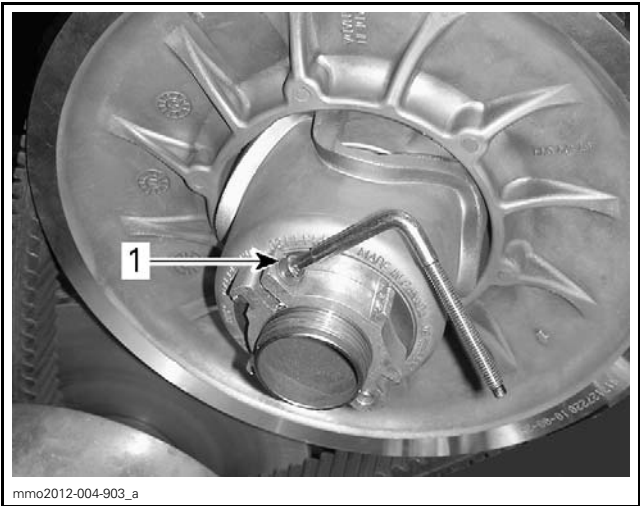


TYPICAL - PRELIMINARY SETTING
1. Lowest portion of cogs even with external surface of drive belt

NOTE: Turning the adjustment ring counterclockwise lowers the belt in the pulley. Turning the ring clockwise raises the belt in the pulley.

6. Tighten the adjustment ring clamping screw.

TORQUE	
Adjustment ring clamping screw	5.5 N•m ± 0.5 N•m (49 lbf•in ± 4 lbf•in)



TYPICAL
1. Clamping screw

7. Install belt guard, refer to *DRIVE BELT GUARD INSTALLATION*.

8. Install LH side panel.

9. Start engine and check if vehicle creeps.

9.1 If vehicle does not creep, adjustment is complete.

9.2 If vehicle creeps, check the drive belt deflection.

Reverse Activation

Reverse may not activate or may be harder to activate if the belt is positioned too high in the driven pulley. If reverse activation does not work properly, ensure the drive belt is properly adjusted.

Adjust the drive belt lower in the driven pulley if needed.

Drive Belt Deflection Verification

1. Make sure drive belt height is adjusted (preliminary setting).
2. Position a reference rule on drive belt.
3. Use the Tensiometer (P/N 414 348 200) as explained below.
4. Set deflection as per following table using bottom O-ring.

DRIVE BELT DEFLECTION	
DRIVE BELT DEFLECTION SETTING	32 mm \pm 5 mm (1.26 in \pm .2 in)



DEFLECTION SETTING

1. Bottom O-ring

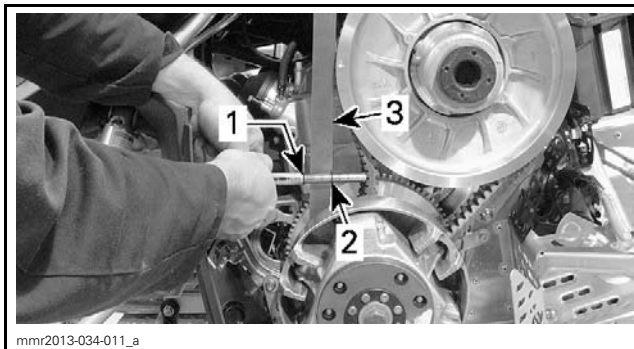
5. Place upper O-ring to 0 kgf (0 lbf).



LOAD READING

1. Upper O-ring

6. Apply pressure until bottom O-ring (deflection) is flush with edge of rule.



TYPICAL

1. Upper O-ring — load
2. Bottom O-ring — deflection
3. Reference rule

7. Read drive belt load. Compare result with the following table.

DRIVE BELT DEFLECTION	
DRIVE BELT LOAD READING	11.30 kgf (25 lbf)

8. If drive belt is within specification, drive belt is properly adjusted.
9. If drive belt is out of specification, try the following:
 - Lower drive belt height from initial setting.
 - Try another drive belt.
10. If proper load still cannot be obtained, check the following:
 - Inspect engine supports.
 - Inspect countershaft and bearing.
 - Inspect chassis for damages.