CONTINUOUSLY VARIABLE TRANSMISSION (CVT)

SERVICE TOOLS

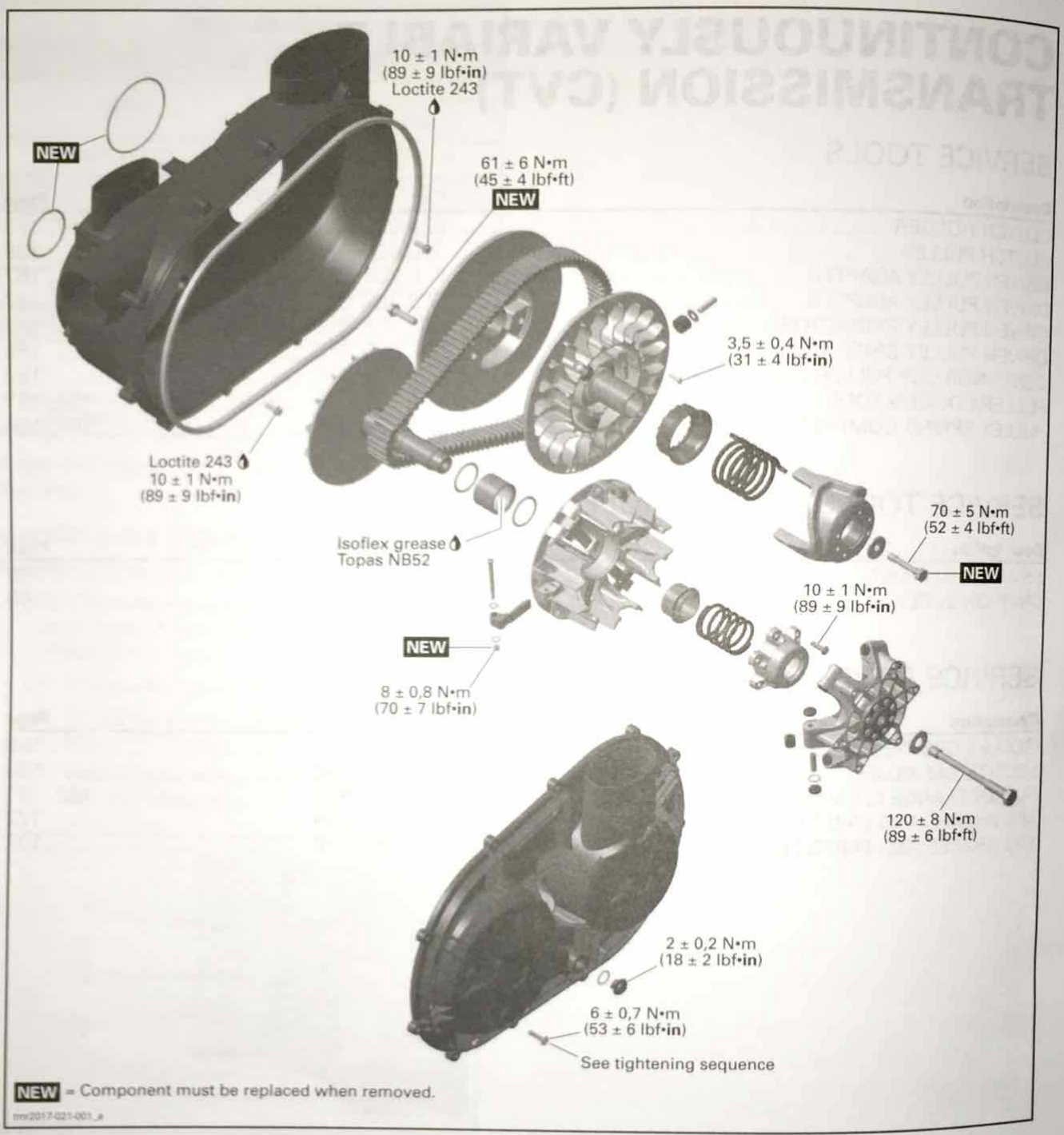
Description	Part Number	Page
CLUTCH HOLDER	529 036 428	158, 167, 173
CLUTCH PULLER	529 035 746	158
DRIVEN PULLEY ADAPTER	708 200 500	167
DRIVEN PULLEY ADAPTER	708 200 720	157, 167
DRIVEN PULLEY EXTRACTOR	529 036 352	167
DRIVEN PULLEY SPACER	529 036 351	168
GOVERNOR CUP PULLER	529 036 350	159
PULLER/LOCKING TOOL	529 000 088	157, 167
PULLEY SPRING COMPRESSOR TOOL	529 036 012	161, 168

SERVICE TOOLS – OTHER SUPPLIER

Description	Part Number	Page
SNAP-ON HAMMER	CJ125-6	169
SNAP-ON SCREW	CJ93-1	169

SERVICE PRODUCTS

Description	Part Number	Page
ISOFLEX GREASE TOPAS NB 52	293 550 021	166
LOCTITE 243 (BLUE)	293 800 060	173
PULLEY FLANGE CLEANER	413 711 809	162, 171
XPS BRAKES AND PARTS CLEANER (USA)	219 701 705	172
XPS BRAKES AND PARTS CLEANER	219 701 776	172



NEW = Component must be replaced when removed.

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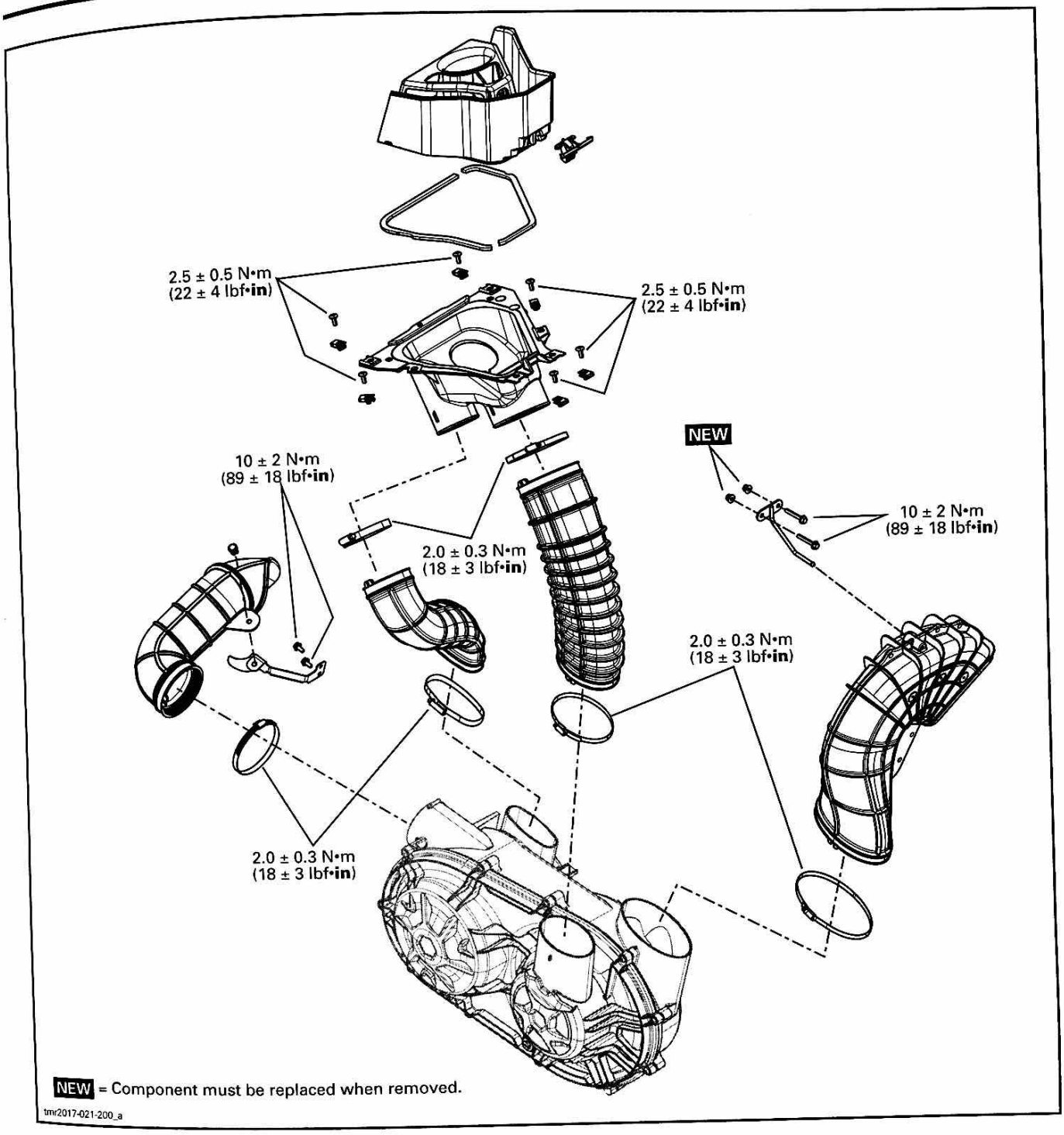
2.5 ± 0.5 N•m
(22 ± 4 lbf•in)
2.5 ± 0.5 N•m
(22 ± 4 lbf•in)
NEW
10 ± 2 N•m
(89 ± 18 lbf•in)
10 ± 2 N•m
(89 ± 18 lbf•in)
2.0 ± 0.3 N•m
(18 ± 3 lbf•in)
2.0 ± 0.3 N•m
(18 ± 3 lbf•in)
2.0 ± 0.3 N•m
(18 ± 3 lbf•in)
NEW = Component must be replaced when removed.
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GENERAL

NOTE: For a better understanding, the following illustrations are taken with engine out of vehicle. To perform the following instructions, it is not necessary to remove engine.

This CVT is lubrication free. Never lubricate any components except drive pulley hub.

⚠ WARNING

Never touch CVT while engine is running. Never drive vehicle when CVT cover is removed.

⚠ WARNING

Any drive pulley repairs must be performed by an authorized Can-Am dealer. Subcomponent installation and assembly tolerances require strict adherence to procedures detailed.

⚠ WARNING

The clutch assembly is a precisely balanced unit. Never replace parts with used parts from another clutch assembly.

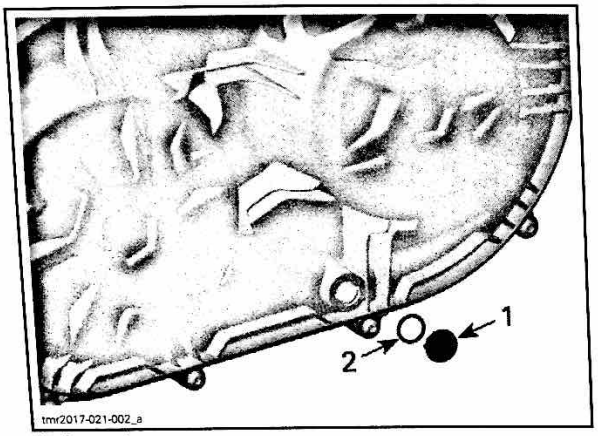
PROCEDURES

CVT COVER

Draining the CVT Cover

If water is present in CVT cover, it can be drained as follows:

1. Turn bayonet cap 90° counterclockwise to open it.
2. Remove bayonet cap and O-ring.



1. Bayonet cap
2. O-ring

3. Let water drain from CVT cover.
4. Reinstall bayonet cap and O-ring.

TIGHTENING TORQUE	
Bayonet cap	2 N•m ± 0.2 N•m (18 lbf•**in** ± 2 lbf•**in**)

NOTICE **If any debris entered the CVT cover, CVT must be cleaned and inspected.**

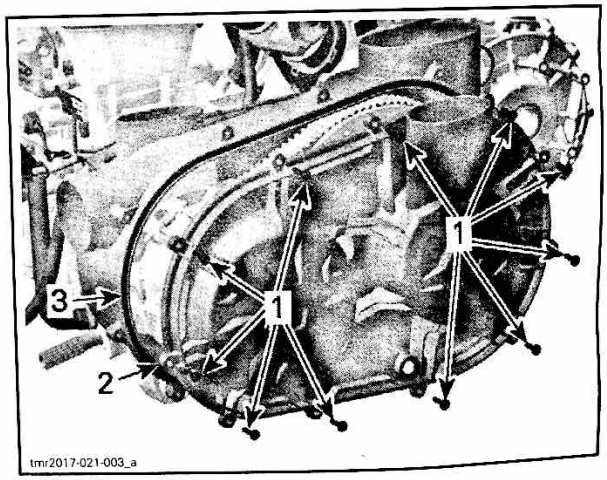
Removing the CVT Cover

Detach CVT hoses from CVT cover.

Remove:
- Retaining screws
- CVT cover
- Gasket.

NOTE: Remove the center top screw last to support the cover during removal.

NOTICE **Do not use and impact tool to remove CVT cover screws.**

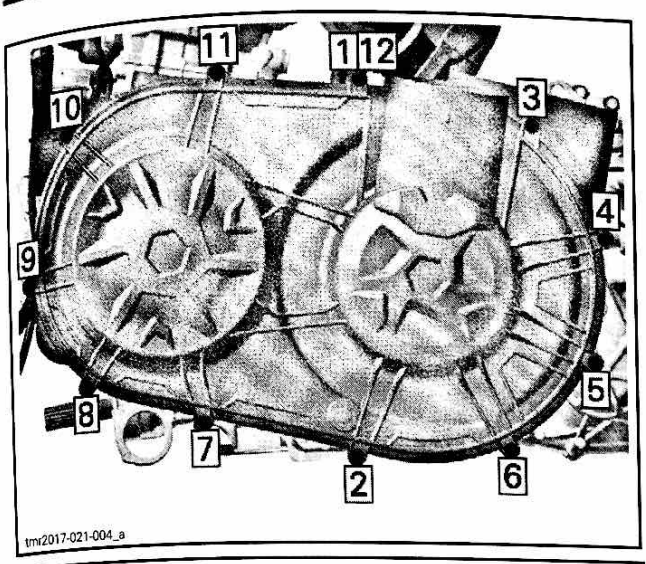


1. Retaining screws
2. CVT cover
3. Gasket

Installing the CVT Cover

Install the center top screw of first.

Tighten the CVT cover retaining screws as per following sequence.



TIGHTENING TORQUE	
CVT cover retaining screws	6 N•m ± 0.7 N•m (53 lbf•**in** ± 6 lbf•**in**)

DRIVE BELT

Removing the Drive Belt

NOTICE In case of a drive belt failure, the CVT, cover and air outlet must be cleaned.

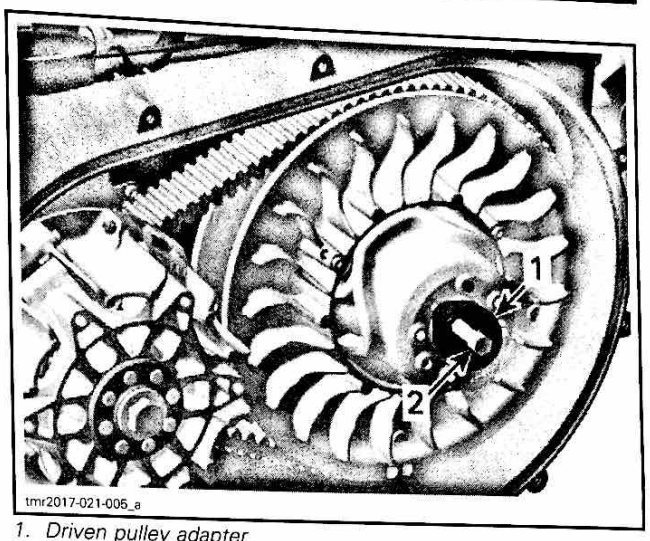
Remove *CVT COVER*.

REQUIRED TOOLS	
PULLER/LOCKING TOOL (P/N 529 000 088)	
DRIVEN PULLEY ADAPTER (P/N 708 200 720)	

Screw in the driven pulley adapter into the driven pulley shaft.

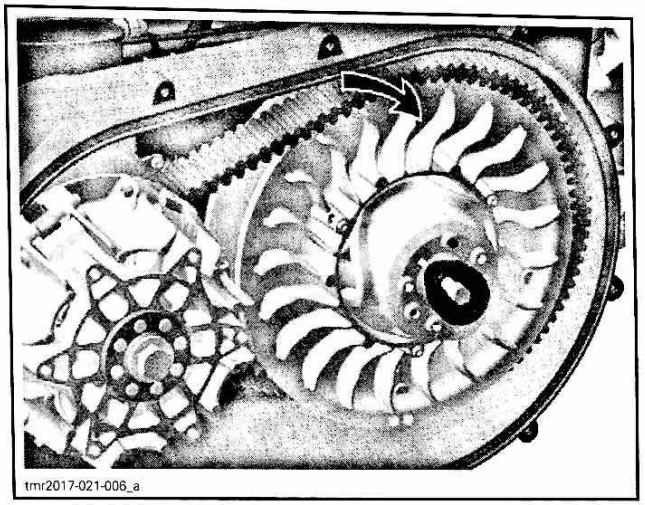
Screw in the driven pulley extractor into the threaded offset hole of the adapter.

Tighten the extractor to open the pulley.



1. *Driven pulley adapter*
2. *Driven pulley extractor*

To remove belt, slip the belt over the top edge of fixed sheave, as shown.



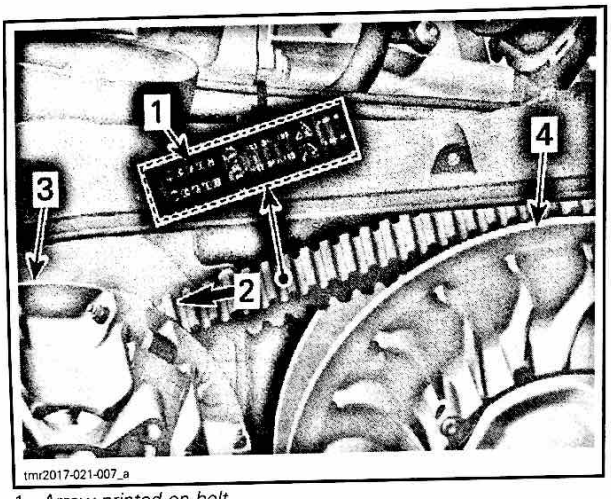
Inspecting the Drive Belt

For drive belt inspection refer to *INSPECTING THE DRIVE BELT* in the *PERIODIC MAINTENANCE PROCEDURES* subsection.

Installing the Drive Belt

For installation, reverse the removal procedure. Pay attention to following details.

The maximum drive belt life span is obtained when the drive belt has the proper rotation direction. Install it so that the arrow printed on belt is pointing towards front of the vehicle, viewed from top.

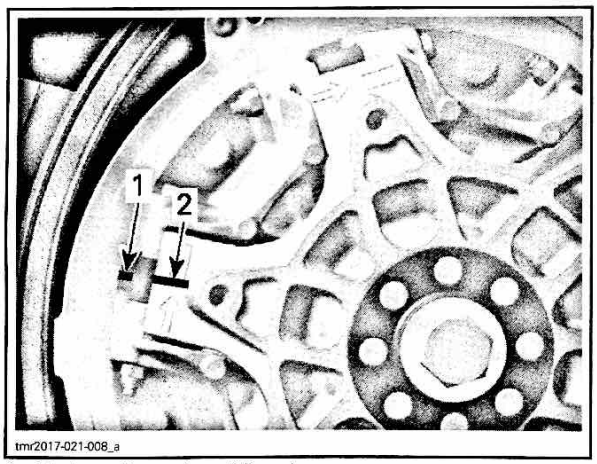


1. *Arrow printed on belt*
2. *Rotation direction*
3. *Drive pulley (front)*
4. *Driven pulley (rear)*

DRIVE PULLEY

Removing the Drive Pulley

1. Remove *DRIVE BELT*, see procedure in this subsection.
2. Prior to removing the drive pulley, mark sliding sheave and governor cup to ensure correct indexation at reinstallation.



1. *Mark on drive pulley sliding sheave*
2. *Mark on governor cup*

3. Lock the drive pulley.

REQUIRED TOOL	
CLUTCH HOLDER (P/N 529 036 428)	

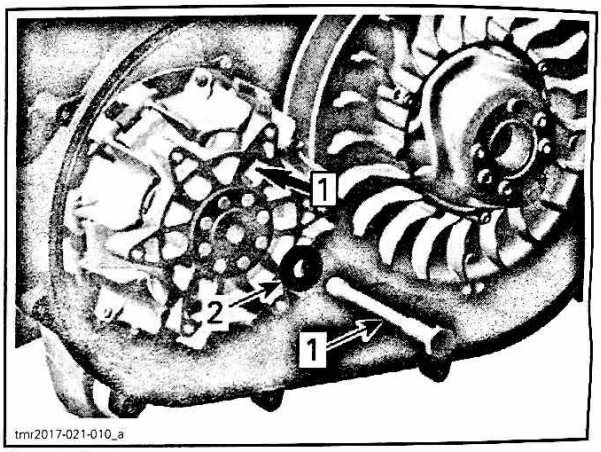
4. Loosen the drive pulley screw.

NOTICE Never use any type of impact wrench for drive pulley removal.

NOTE: Do not unscrew the drive pulley screw completely.

5. Remove service tool.
6. Apply axial pressure with your hand on the governor cup until clutch puller for removal is installed.
7. Remove:
   - Drive pulley screw
   - Spring washer.

⚠ CAUTION Sliding sheave of drive pulley is spring loaded.



Step 1: Push

1. *Drive pulley screw*
2. *Spring washer*

8. Screw clutch puller in fixed sheave to remove drive pulley.

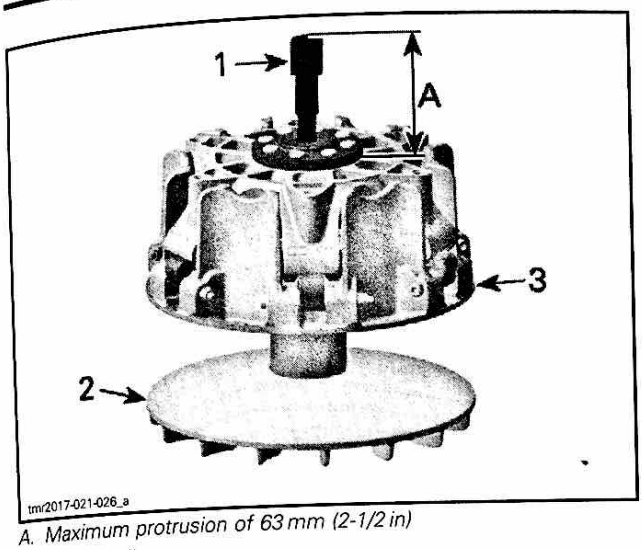
NOTICE Use only recommended tool.

REQUIRED TOOL	
CLUTCH PULLER (P/N 529 035 746)	

Disassembling the Drive Pulley

Drive Pulley

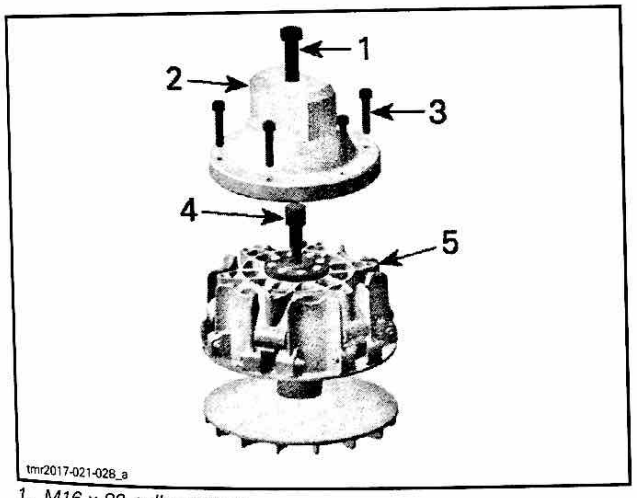
Screw clutch puller into fixed sheave shaft (maximum protrusion of 63 mm (2-1/2 in)).



A. Maximum protrusion of 63 mm (2-1/2 in)
1. *Clutch puller*
2. *Fixed sheave*
3. *Sliding sheave*

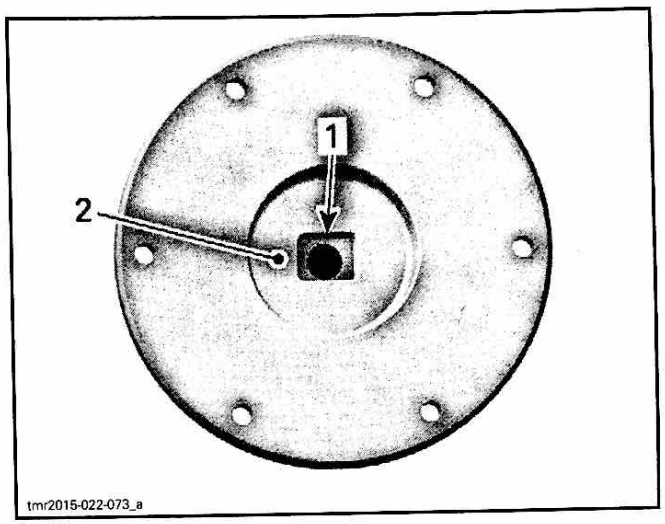
Place the governor cup puller on governor cup.

REQUIRED TOOL	
GOVERNOR CUP PULLER (P/N 529 036 350)	



1. *M16 x 80 puller screw*
2. *Governor cup puller*
3. *M8 x 35 puller retaining screws*
4. *Clutch puller*
5. *Governor cup*

NOTICE **Ensure that the hexagonal head of the clutch puller engages in the slot of the governor cup puller.**

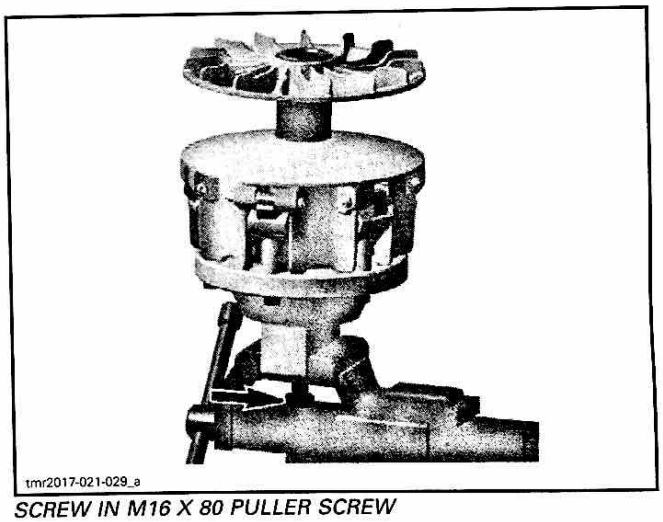


1. *Slot*
2. *Inner side of puller*

Tighten M8 x 35 puller retaining screws.

TIGHTENING TORQUE	
M8 x 35 puller retaining screws	20 N•m ± 2 N•m (15 lbf•ft ± 1 lbf•ft)

Put the governor cup puller into a vice and screw in the M16 x 80 puller screw.



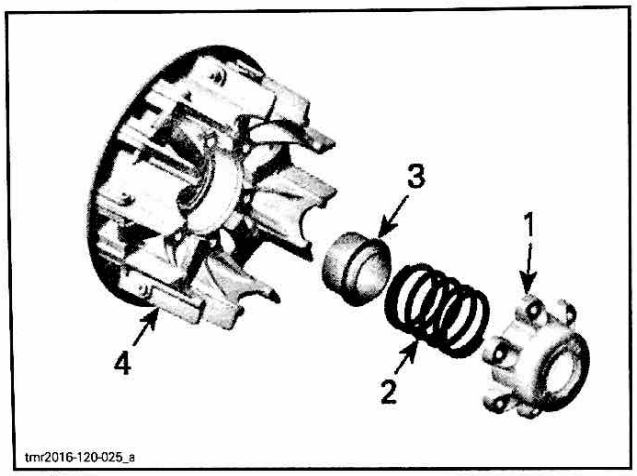
SCREW IN M16 X 80 PULLER SCREW

⚠ CAUTION **The fixed sheave will bounce up.**

Remove the governor cup puller from the drive pulley.

Governor Cup

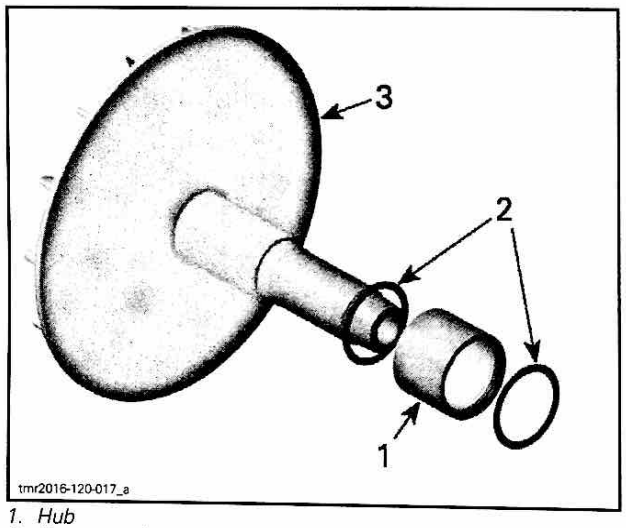
Carefully lift governor cup until slider shoes come at their highest position into guides.



1. *Spring cover*
2. *Spring*
3. *Spring seat*
4. *Sliding sheave*

Fixed Sheave

Remove the following components from the fixed sheave.



1. *Hub*
2. *Thrust washers*
3. *Fixed sheave*

Cleaning the Drive Pulley

Clean pulley faces and shaft with fine steel wool and dry cloth.

Using a paper towel with cleaning solvent, clean:
- Crankshaft tapered end
- Crankshaft threads
- Taper on the fixed sheave
- Threads of drive pulley screw.

DRIVE PULLEY CLEANING	
Service product	PULLEY FLANGE CLEANER (P/N 413 711 809)

NOTICE **Avoid contact between cleaner and crankshaft seal because damage may occur.**

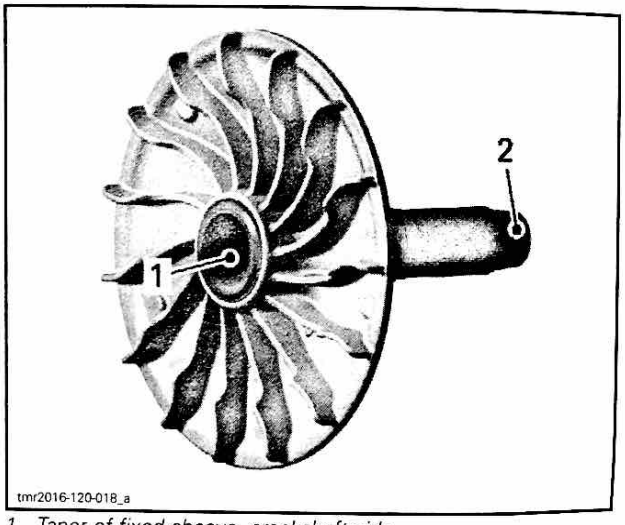
Remove all hardened oil deposits that have baked on crankshaft and pulley tapered surfaces with coarse or medium steel wool and/or sand paper no. 600.

NOTICE **Do not use any other type of abrasive.**

Reclean mounting surfaces with paper towel and PULLEY FLANGE CLEANER (P/N 413 711 809).

Wipe off the mounting surfaces with a clean, dry paper towel.

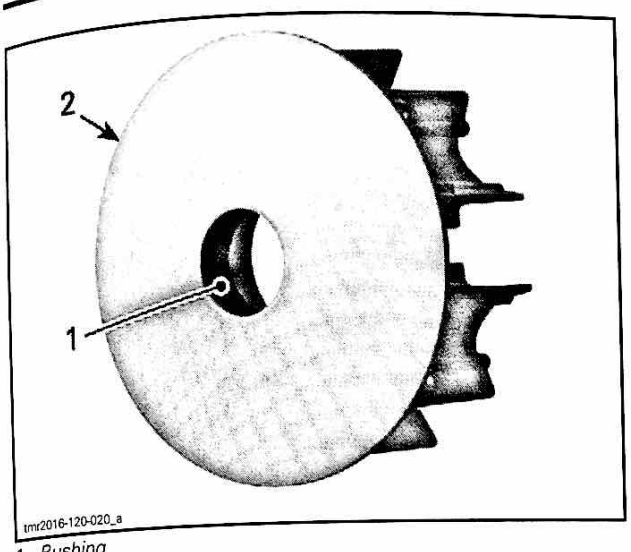
NOTICE **Mounting surfaces must be free of any oil, cleaner or towel residue.**



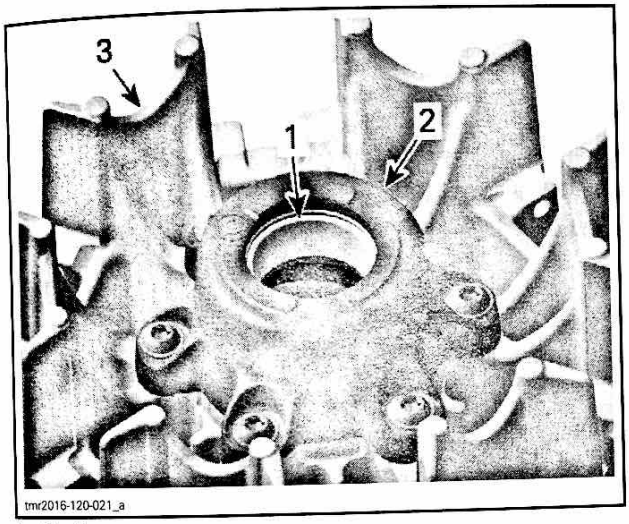
1. *Taper of fixed sheave, crankshaft side*
2. *Tapered end of fixed sheave shaft*

Only use petrol base cleaner when cleaning bushings of sliding sheave.

NOTICE **Do not use acetone to clean bushing.**



1. Bushing
2. Sliding sheave



1. Bushing
2. Spring cover
3. Sliding sheave

Inspecting the Drive Pulley

Bushings

For bushing inspection, refer to *SLIDING SHEAVE AND SPRING COVER* in this subsection.

Governor Cup

Check governor cup for cracks or other visible damage. Replace if necessary.

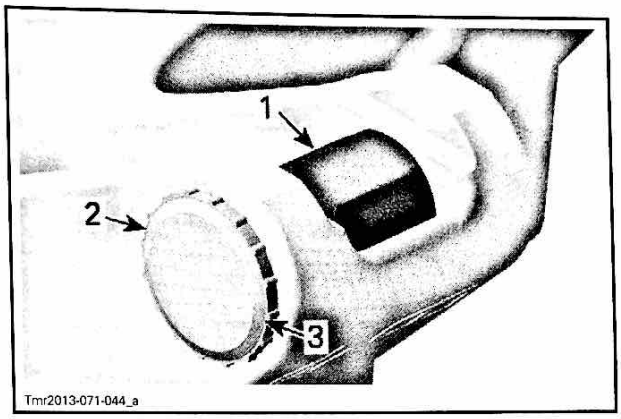
Roller and Slider Shoe

Check if rollers move freely.

NOTICE Whenever replacing rollers and slider shoes, always replace all rollers and slider shoes at the same time.

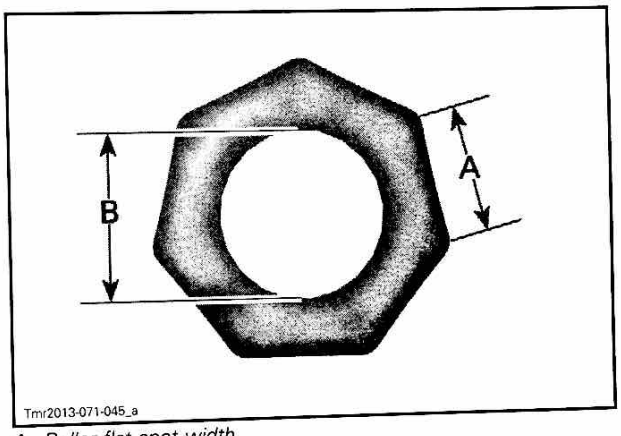
Check slider shoes for visible wear. If chamfer is not present anymore, replace **ALL** slider shoes.

NOTE: If necessary, use a screwdriver to remove slider shoes.



1. Roller
2. Slider shoe
3. Chamfer

Check roller outer width and inner diameter, replace if it is out of specification.



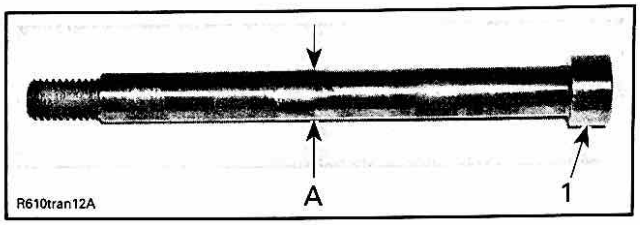
A. Roller flat spot width
B. Roller inner diameter

ROLLER FLAT SPOT WIDTH	
Service limit	8.50 mm (.335 in)

ROLLER INNER DIAMETER	
New	8.025 mm to 8.175 mm (.3159 in to .3219 in)
Service limit	9.000 mm (.3543 in)

Centrifugal Lever Pivot Bolt

Measure diameter of centrifugal lever pivot bolt, replace if it is out of specification.



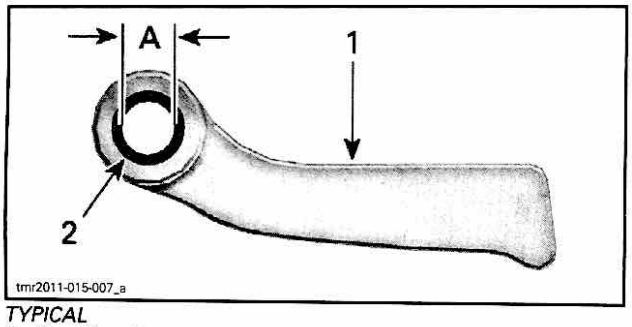
1. *Centrifugal lever pivot bolt*

A. Measure diameter here

CENTRIFUGAL LEVER PIVOT BOLT DIAMETER	
New	6.063 mm to 6.091 mm (.2387 in to .2398 in)
Service limit	6.000 mm (.2362 in)

Centrifugal Lever

Check bushing diameter in the centrifugal lever for wear. Replace centrifugal lever if necessary.



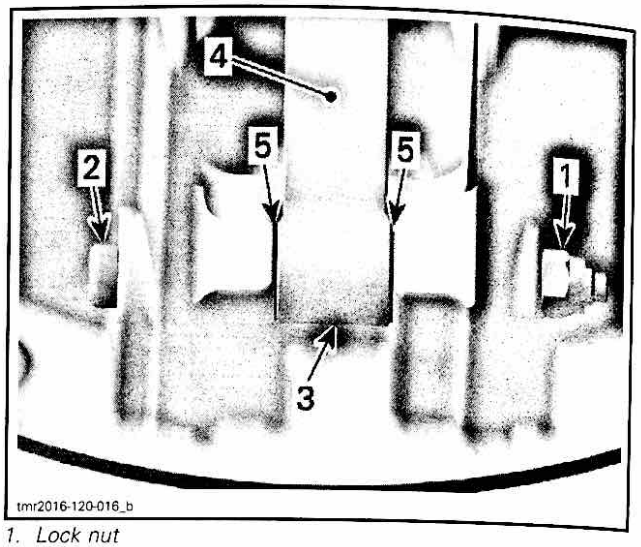
TYPICAL

1. *Centrifugal lever*
2. *Bushing*

A. Bushing inner diameter

CENTRIFUGAL LEVER BORE DIAMETER	
New	6.000 mm to 6.120 mm (.236 in to .241 in)
Service limit	6.200 mm (.244 in)

Replace centrifugal lever, thrust washers, centrifugal lever pivot bolts and lock nuts if the contact surfaces show heavy visible wear.



1. *Lock nut*
2. *Centrifugal lever pivot bolt*
3. *Centrifugal lever*
4. *Contact surface to the roller*
5. *Thrust washers*

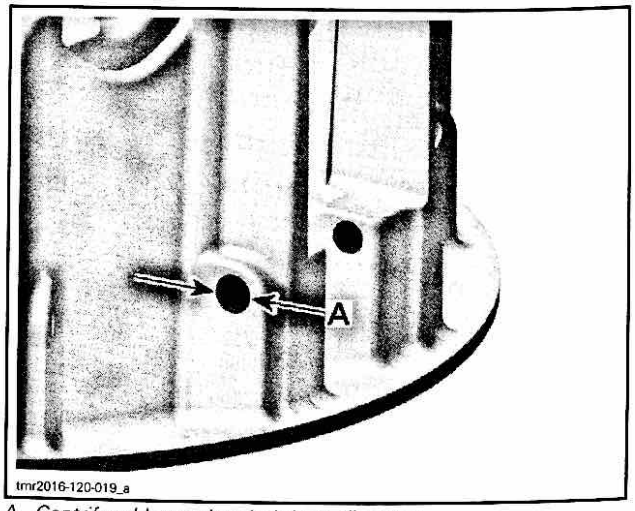
⚠ WARNING

Whenever replacing centrifugal levers, always replace all lever at the same time. Otherwise, unbalanced drive pulley will occur because of levers difference.

Sliding Sheave and Spring Cover

Check sliding sheave for cracks and sliding contact surface for excessive wear. Replace sliding sheave if necessary.

Measure centrifugal lever pivot bolt bores. Replace sliding sheave if bores are out of specification or otherwise damaged.



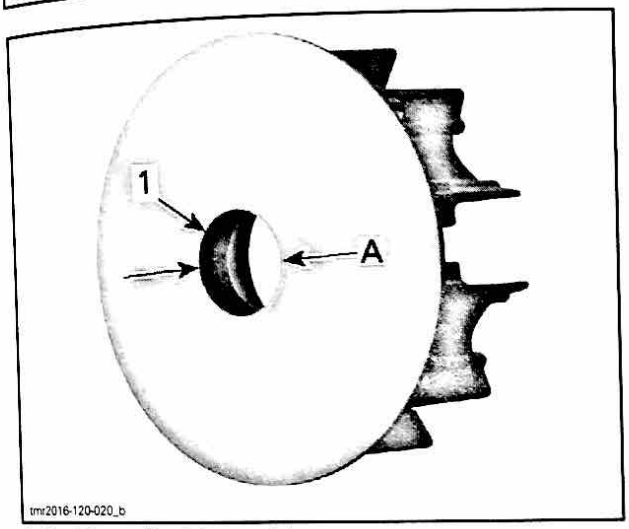
A. Centrifugal lever pivot bolt bore diameter

CENTRIFUGAL LEVER PIVOT BOLT BORE DIAMETER	
New	6.113 mm to 6.171 mm (.241 in to .243 in)
Service limit	6.300 mm (.248 in)

Measure bushing diameters of sliding sheave.

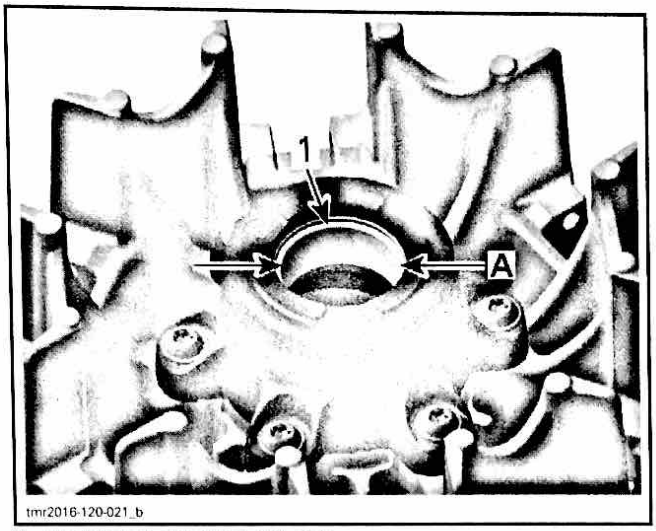
REQUIRED TOOL
Dial bore gauge

MEASURING POINT
At least 5 mm (1/4 in) from bushing edge



1. Bushing on fixed sheave side
A. Bore diameter of bushing

SLIDING SHEAVE LARGE BUSHING	
New	46.950 mm to 47.130 mm (1.848 in to 1.856 in)
Service limit	47.160 mm (1.857 in)



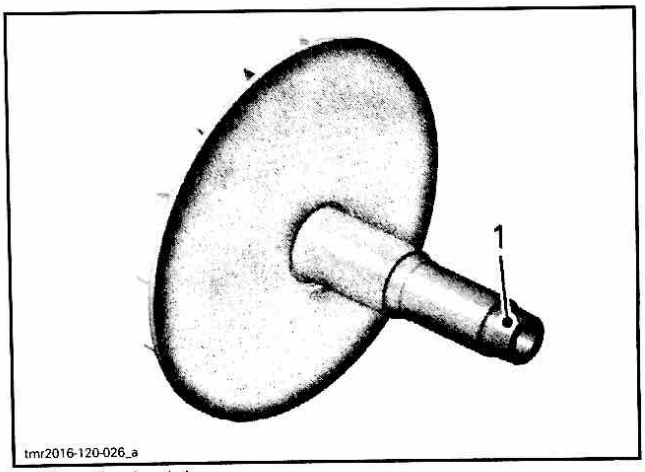
1. Bushing on governor cup side
A. Bore diameter of bushing

SLIDING SHEAVE SMALL BUSHING	
New	32.010 mm to 32.135 mm (1.26 in to 1.265 in)
Service limit	32.200 mm (1.268 in)

Replace sliding sheave if one of the bushings is out of specification. Visually inspect coatings.

Fixed Sheave

Check fixed sheave contact surface to the governor cup for scratches or other damages. If so, replace fixed sheave.



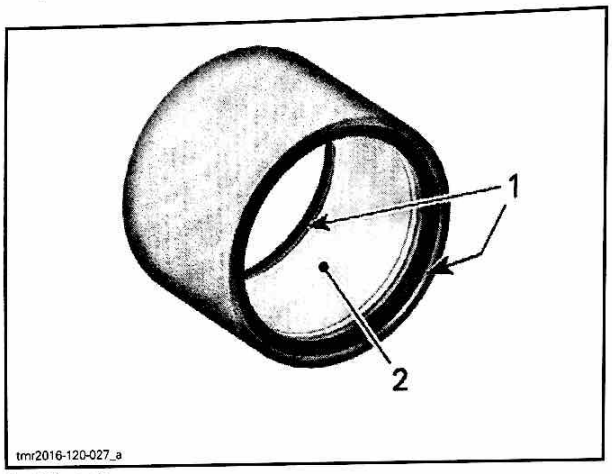
1. Visually check here

Check for any marks on fixed sheave plate. Replace if necessary.

Hub

Check:
- Oil seals in brittle, hard or damaged
- Needle bearing for excessive play and smooth operation.

Replace hub if necessary.



1. *Oil seals*
2. *Needle bearing*

Assembling the Drive Pulley

For assembly, reverse the disassembly procedure. Pay attention to following details.

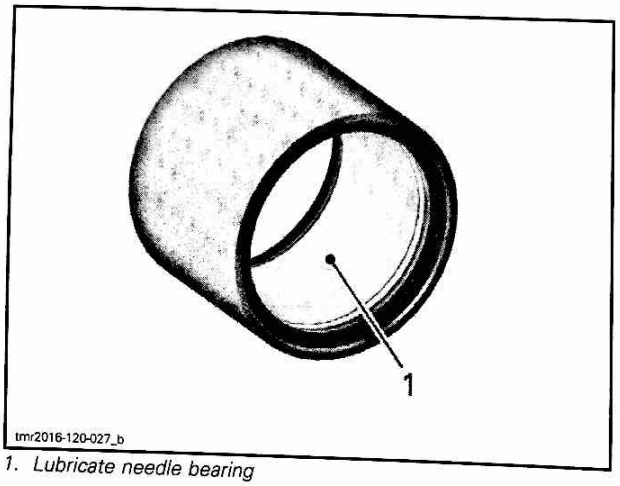
Hub

Clean parts.

Lubricate needle bearing.

NOTICE **Grease the needle bearing slightly. Do not apply in excess as it will spread out and lead to CVT malfunction.**

NEEDLE BEARING LUBRICATION	
Service product	ISOFLEX GREASE TOPAS NB 52 (P/N 293 550 021)



1. *Lubricate needle bearing*

Sliding Sheave

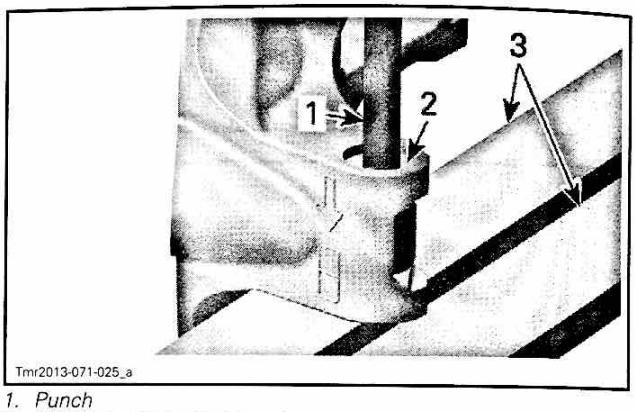
Install centrifugal levers with their thrust washers.

NOTICE **Centrifugal levers must move easily after installation.**

Governor Cup

Rebuild governor cup with new bearing sleeves, rollers and slider shoes.

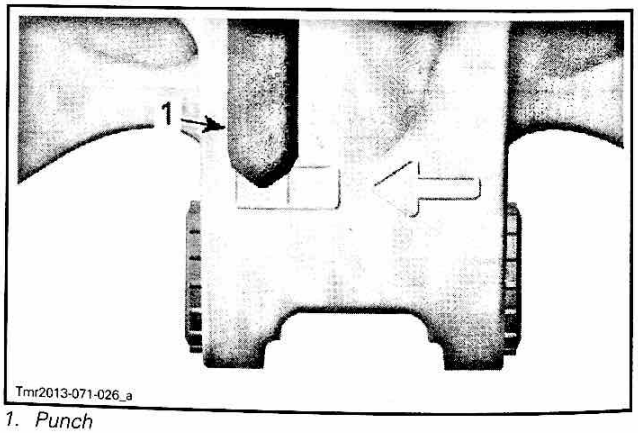
NOTICE **Final position has to be aligned with the contact surface of the slider shoes (no protrusion).**



1. *Punch*
2. *Mating surface of slider shoes*
3. *Vice*

Each time when replacing the bearing sleeves sign the foreseen box with a punch.

NOTICE **Do not tap too hard. Violent damage of the governor cup may appear.**



1. *Punch*

NOTICE **Rollers must move easily after installation.**

Insert slider shoes into governor cup to properly slide in guides.

Installing the Drive Pulley

For installation, reverse the removal procedure. Pay attention to the following details.

⚠ WARNING

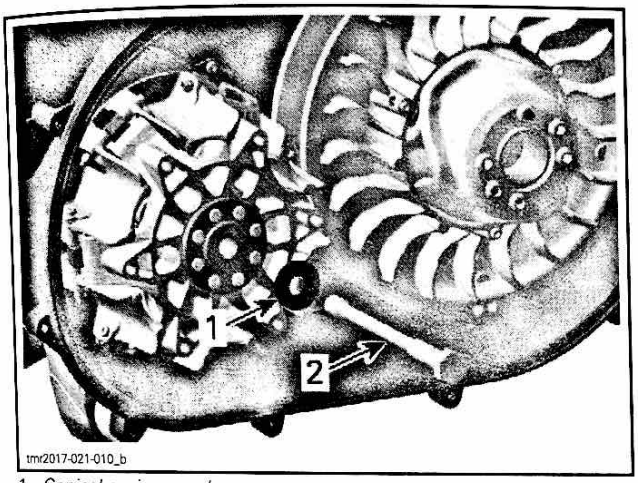
Do not apply antiseize or any lubricant on crankshaft and drive pulley tapers.

NOTICE **Never use any type of impact wrench at drive pulley removal and installation.**

Clean mounting surfaces as described in *CLEANING* above.

Install drive pulley on crankshaft extension.

Install conical spring washer with its concave side towards drive pulley then install drive pulley screw.



1. Conical spring washer
2. Drive pulley screw

⚠ WARNING

Never substitute conical spring washer and/or screw with jobber ones. Always use BRP genuine parts for this particular case.

Lock the drive pulley as per removal procedure.

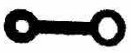
Tighten drive pulley screw to specified torque.

NOTICE **Never use any type of impact wrench for drive pulley installation.**

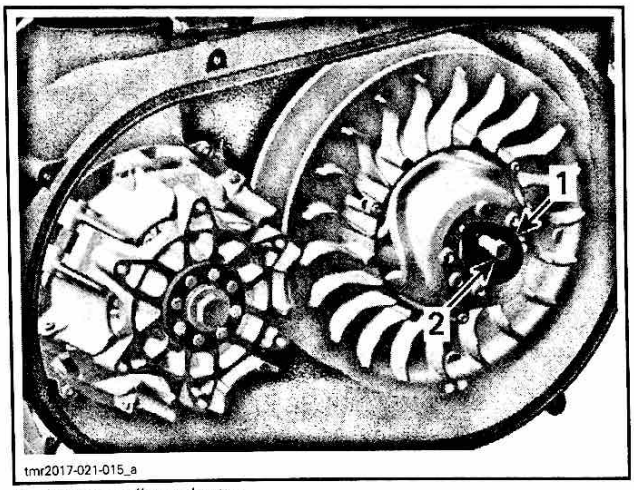
TIGHTENING TORQUE	
Drive pulley screw	120 N•m ± 8 N•m (89 lbf•ft ± 6 lbf•ft)

DRIVEN PULLEY

Removing the Driven Pulley

REQUIRED TOOLS	
CLUTCH HOLDER (P/N 529 036 428)	
PULLER/LOCKING TOOL (P/N 529 000 088)	
DRIVEN PULLEY ADAPTER (P/N 708 200 720)	

1. Remove:
   - CVT cover
   - Drive belt.
2. Install the clutch holder.
3. Remove:
   - Driven pulley screw (discard it)
   - Collar washer.
4. Remove the clutch holder.
5. Pull the driven pulley out of the vehicle.
   - 5.1 If removed, reinstall the DRIVEN PULLEY ADAPTER (P/N 708 200 500).
   - 5.2 Screw in the DRIVEN PULLEY EXTRACTOR (P/N 529 036 352) in the **center hole** of the driven pulley adapter.
   - 5.3 Tighten the extractor until driven pulley is free.
   - 5.4 Remove tools from the driven pulley.



1. Driven pulley adapter
2. Driven pulley extractor

Disassembling the Driven Pulley

Removing the Cam and Spring

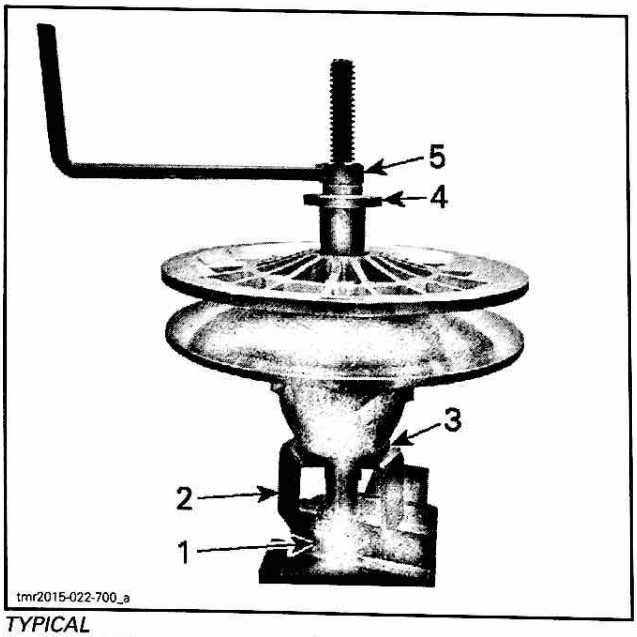
To remove the cam and the spring, always use the following tools.

⚠ WARNING

Cam is under high clutch spring preload. Never attempt to remove the cam without the recommended tools.

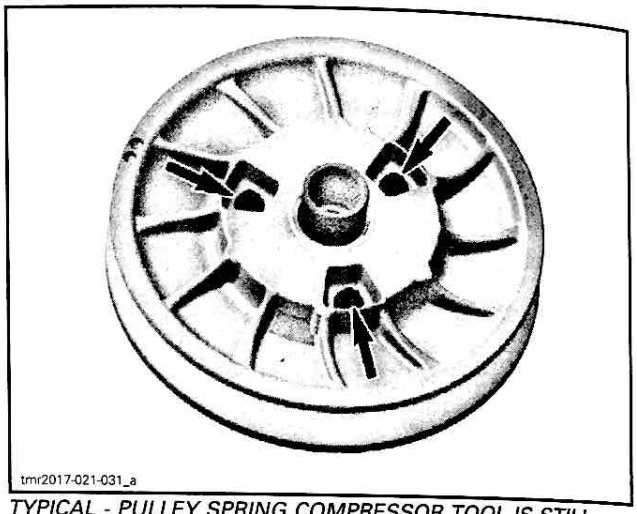
REQUIRED TOOLS	
PULLEY SPRING COMPRESSOR TOOL (P/N 529 036 012)	
DRIVEN PULLEY SPACER (P/N 529 036 351)	

1. Install the driven pulley on the spring compressor tool.
   1.1 Secure the spring compressor tool rod in a vice.
   1.2 Install the support cup, the driven pulley spacer, the driven pulley (with the cam towards the vice), the support guide and the handle.
   1.3 Screw in the handle to remove all play.



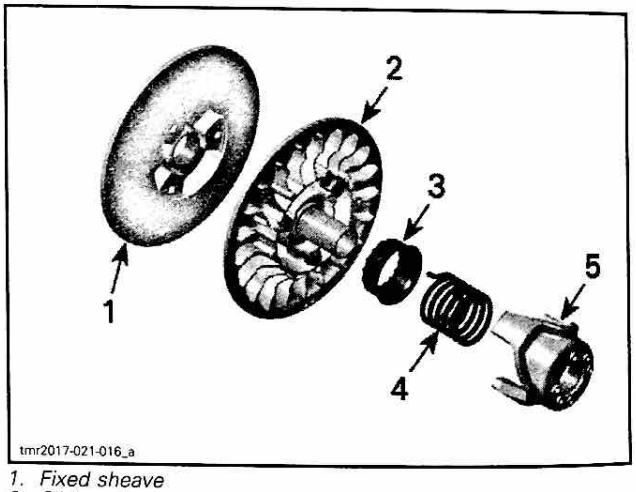
TYPICAL
1. *Pulley spring compressor tool*
2. *Support cup*
3. *Driven pulley spacer*
4. *Support guide*
5. *Handle*

2. Remove and discard the three (3) Torx cam retaining screws.



TYPICAL - PULLEY SPRING COMPRESSOR TOOL IS STILL INSTALLED

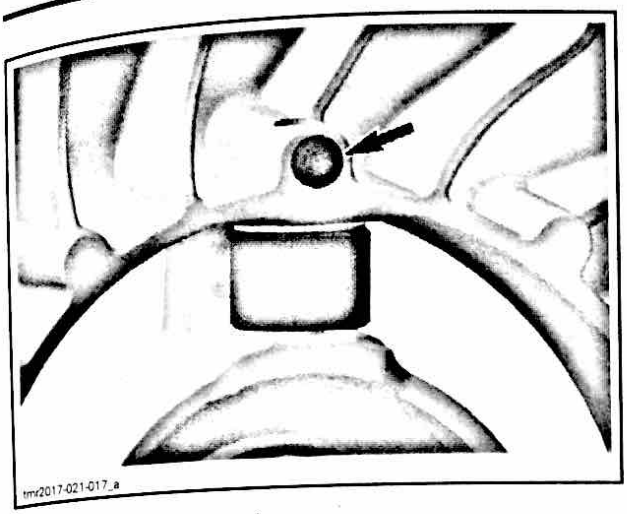
3. Remove the driven pulley assembly from the spring compressor tool.
4. Separate parts.



1. *Fixed sheave*
2. *Sliding sheave*
3. *Spring support*
4. *Spring*
5. *Cam*

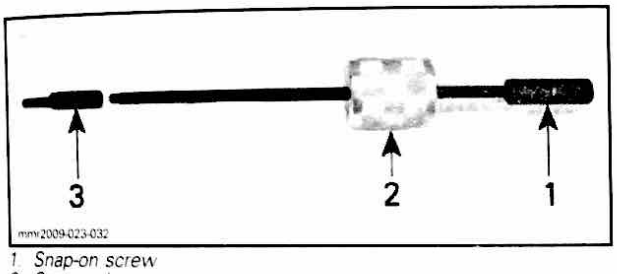
Removing the Driven Pulley Roller

1. Remove screw locking the bearing pin.

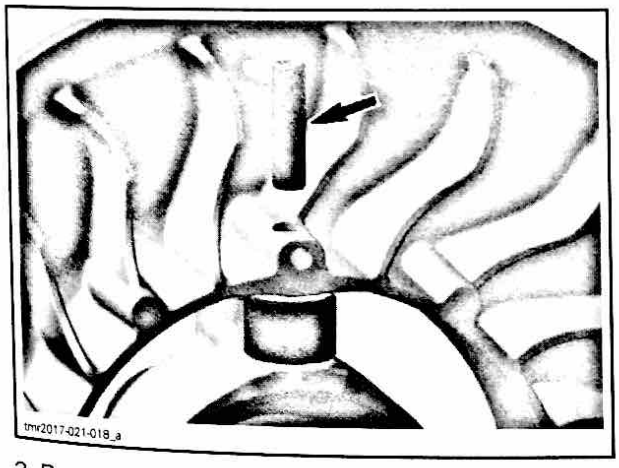


2. Remove bearing pin.

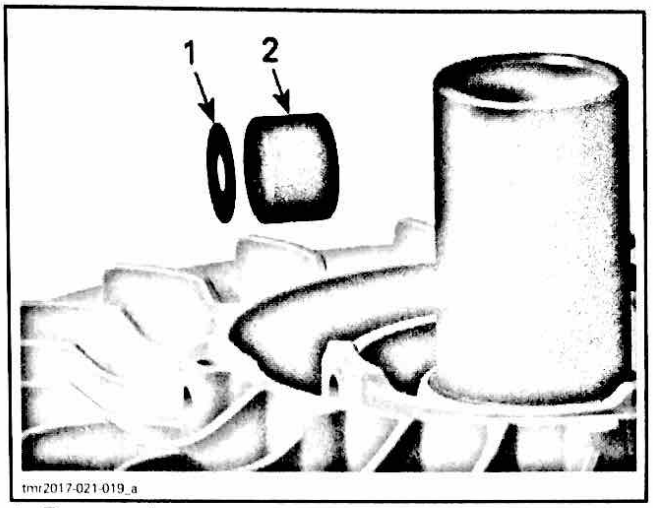
REQUIRED TOOL
SNAP-ON SCREW (P/N CJ93-1)
SNAP-ON HAMMER (P/N CJ125-6)
Extractor adapter M4



1. *Snap-on screw*
2. *Snap-on hammer*
3. *Extractor adapter M4*



3. Remove:
   - Thrust washer
   - Roller.



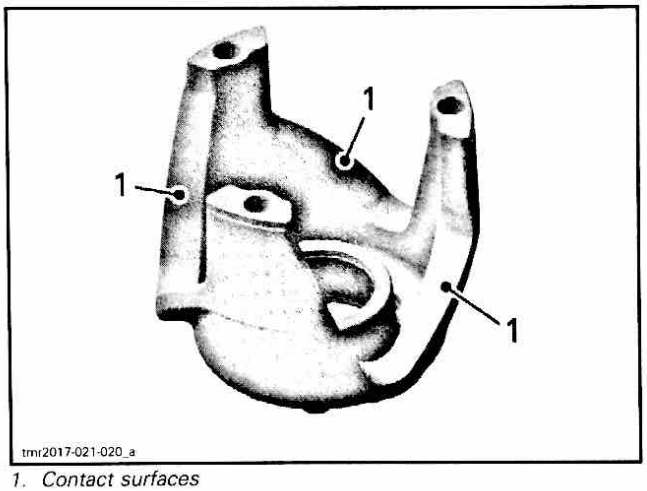
1. *Thrust washer*
2. *Roller*

4. Proceed with removal of other roller.

Inspecting the Driven Pulley

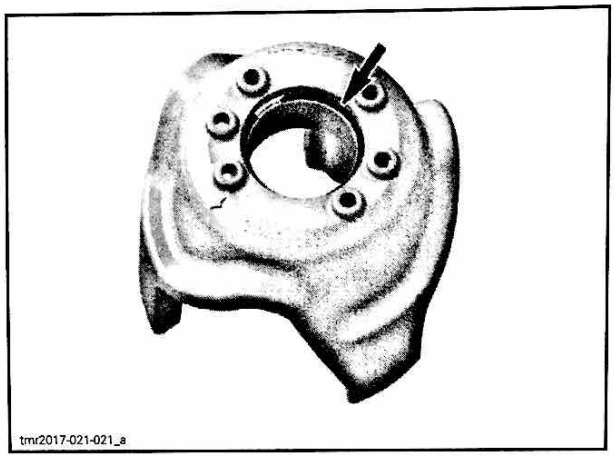
Cam

1. Verify all contact surfaces of cam for visible damages.



1. *Contact surfaces*

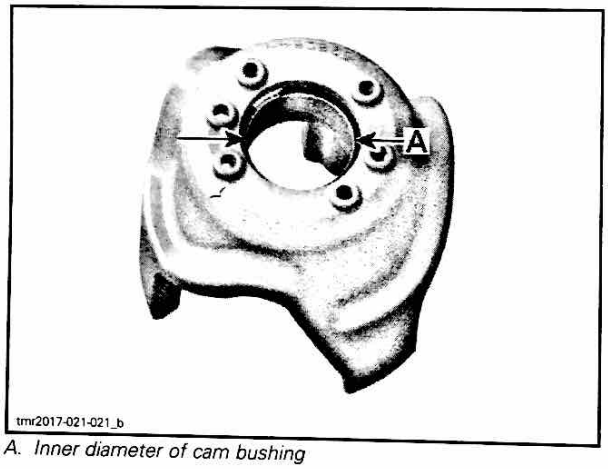
2. Ensure circlip properly locks the inner bushing. Replace part if necessary.



3. Measure the inner diameter of cam bushing.

REQUIRED TOOL
Dial bore gauge

MEASURING POINT
At least 5 mm (1/4 in) from bushing edge



A. Inner diameter of cam bushing

CAM BUSHING INNER DIAMETER	
New	41.278 mm to 41.363 mm (1.625 in to 1.628 in)
Service limit	41.420 mm (1.631 in)

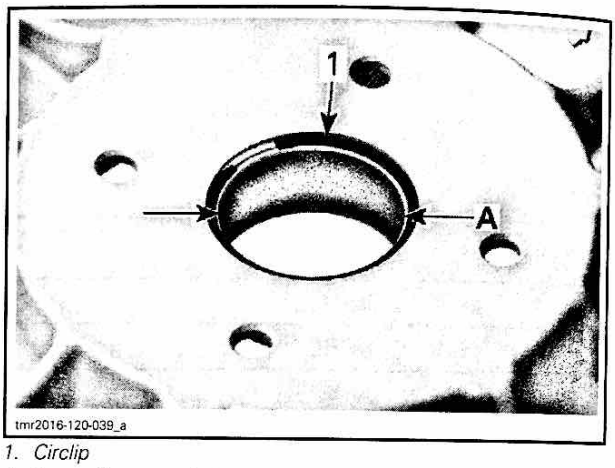
Replace the cam if the inner diameter of bushing is out of specification.

Sliding Sheave

1. Inspect pulley sheave for marks or scratches.
2. Ensure circlip properly locks the inner bushing. Replace part if necessary.
3. Measure the inner diameter of sliding sheave bushing.

REQUIRED TOOL
Dial bore gauge

MEASURING POINT
At least 5 mm (1/4 in) from bushing edge

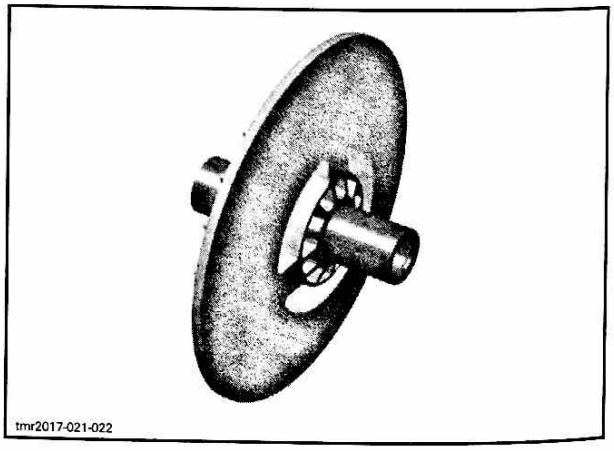


1. Circlip
A. Inner diameter of sliding sheave bushing

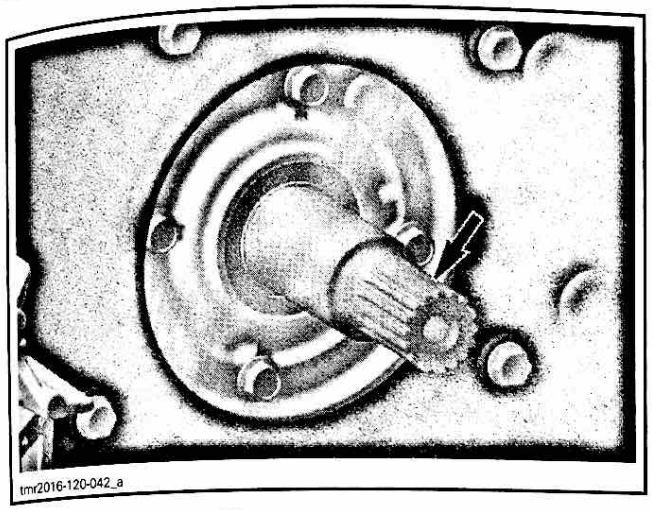
DRIVEN PULLEY INNER HALF BUSHING	
New	41.278 mm to 41.363 mm (1.625 in to 1.628 in)
Service limit	41.420 mm (1.631 in)

Replace the sliding sheave if the inner diameter of bushing is out of specification.

Fixed Sheave

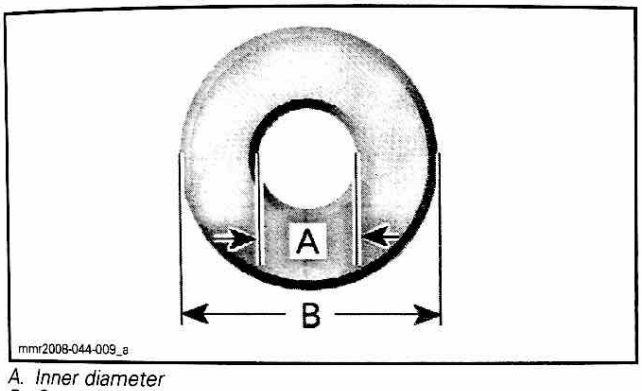


Replace fixed sheave and countershaft if one of the following problem is detected:
- Marks or scratches on pulley sheave
- Bent, twisted or otherwise damaged countershaft
- Defective splines and threads at the end of countershaft.



Driven Pulley Roller

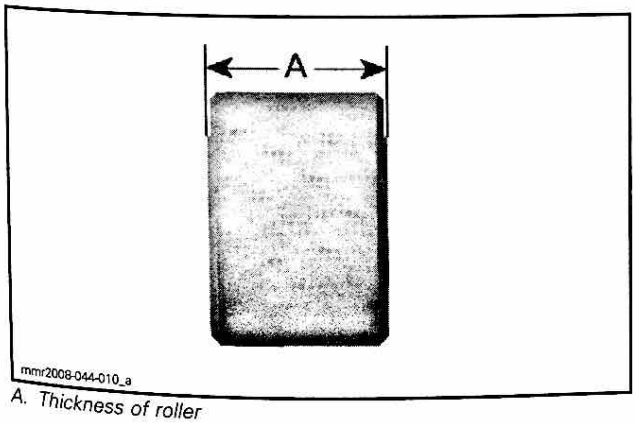
1. Check the rollers for flat spots, cracks or other visible damages. Replace if necessary (as a set).
2. Measure inner and outer diameter of rollers.



A. Inner diameter
B. Outer diameter

DRIVEN PULLEY ROLLER	SERVICE LIMIT
Inner diameter	8.5 mm (.335 in)
Outer diameter	21.5 mm (.846 in)

3. Measure the roller thickness.



A. Thickness of roller

DRIVEN PULLEY ROLLER	SERVICE LIMIT
Thickness	14.75 mm (.581 in)

If a roller is out of specifications, replace all rollers at the same time.

Cleaning the Driven Pulley

Use the PULLEY FLANGE CLEANER (P/N 413 711 809) and a clean rag to clean pulley sheaves.

Cam and Spring

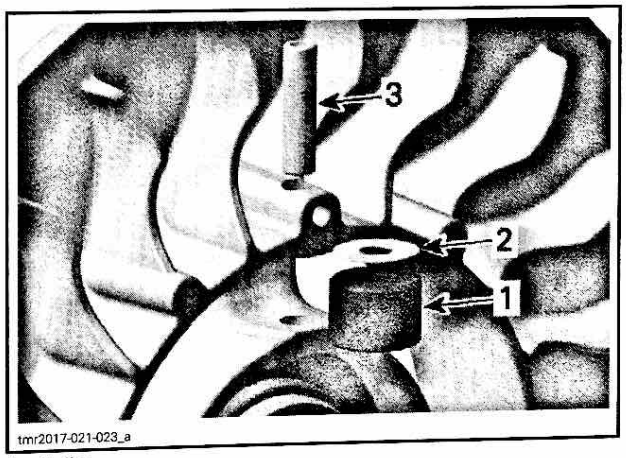
During break-in period, teflon from bushing moves to cam or countershaft surface. A teflon over teflon running condition occurs, leading to low friction. So it is normal to see gray teflon deposit on cam or countershaft. Do not remove this deposit.

When a dust deposit has to be removed from the cam or the countershaft, use dry cloth to avoid removing transferred teflon.

Assembling the Driven Pulley

Installing the Driven Pulley Roller

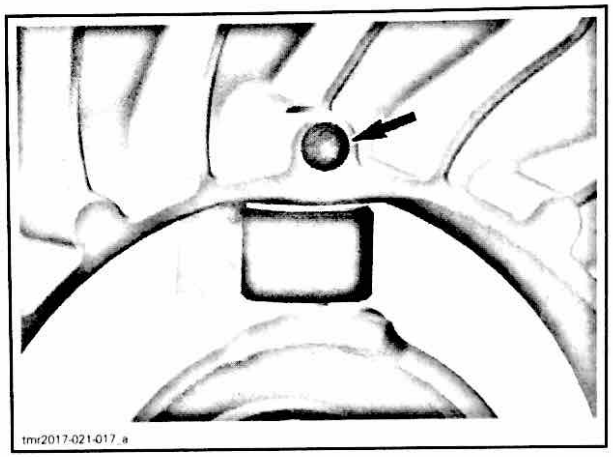
1. Using a hand wire brush, clean locking screw threads.
2. Insert:
   - Roller
   - Thrust washer.
3. Install spring pin.



1. Roller
2. Thrust washer
3. Spring pin

4. Tighten locking screw as specified.

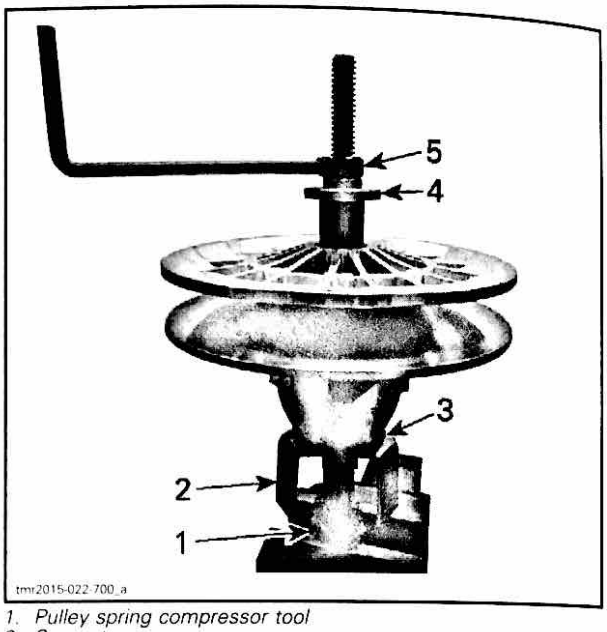
TIGHTENING TORQUE	
Locking screws	3.5 N•m ± 0.4 N•m (31 lbf•**in** ± 4 lbf•**in**)



5. Install spring pin and tighten as specified.

Assembling the Sheaves and Cam

1. Install the cam on the spring compressor tool, over the support cup and the clutch shim.
2. Install the spring into the cam then the fixed sheave and the sliding sheave.
3. Complete with the support guide and the handle.
4. Before tightening the handle, align the arrows on cam and the sliding sheave with the one on the fixed sheave.
5. Tighten the handle until the cam is completely pressed against the sliding sheave.



1. *Pulley spring compressor tool*
2. *Support cup*
3. *Driven pulley spacer*
4. *Support guide*
5. *Handle*

6. From the back of the sliding sheave, install three (3) **NEW** cam screws.

TIGHTENING TORQUE	
Cam screw	61 N•m ± 6 N•m (45 lbf•ft ± 4 lbf•ft)

7. Remove the driven pulley from the tool.

Installing the Driven Pulley

For installation, reverse the removal procedure. Pay attention to the following details.

NOTICE **This assembly uses a stretch screw. Always install a NEW screw.**

Clean threads of gearbox countershaft and **NEW** driven pulley screw.

SERVICE PRODUCT	
Gearbox countershaft threads and driven pulley screw	XPS BRAKES AND PARTS CLEANER (P/N 219 701 776) or XPS BRAKES AND PARTS CLEANER (USA) (P/N 219 701 705)

NOTICE **Threads must be free of oil and grease. Lubricants in threads will create too high preload to tightened driven pulley screw.**

Install the driven pulley onto the countershaft. Make sure to align splines.

Install driven pulley screw with collar washer.

NOTICE Make sure to position the large diameter of the thrust washer against the conical side of the spring washer.

Install the clutch holder.

REQUIRED TOOL	
CLUTCH HOLDER (P/N 529 036 428)	

Tighten driven pulley screw as specified.

TIGHTENING TORQUE	
Driven pulley screw	70 N•m ± 5 N•m (52 lbf•ft ± 4 lbf•ft)

Remove the clutch holder.

Install drive belt. Refer to *DRIVE BELT* in this subsection.

NOTICE After the repair procedure is finished, allow vehicle to sit for 6 hours for threadlocker curing.

CVT AIR GUIDE

Removing the CVT Air Guide

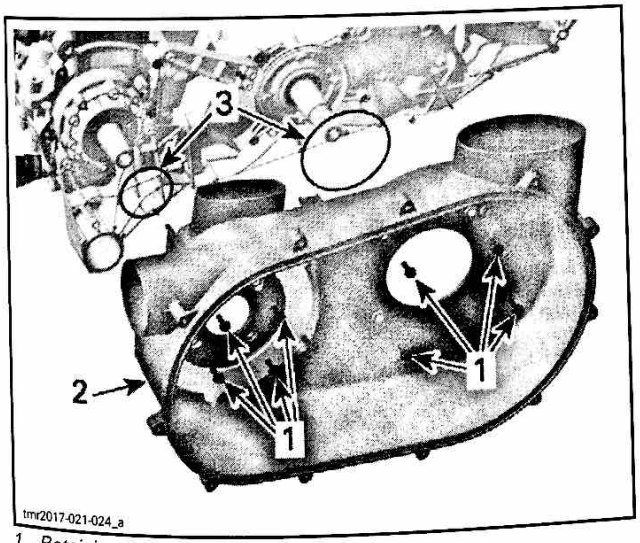
Remove:

- *DRIVE PULLEY*
- *DRIVEN PULLEY.*

Unscrew the clamps retaining the CVT air hoses.

Remove CVT air guide.

Remove and discard O-rings.



1. *Retaining screws*
2. *CVT air guide*
3. *O-rings*

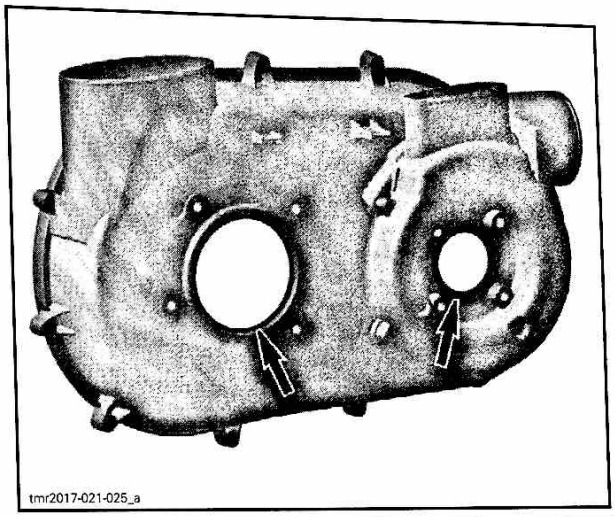
Inspecting the CVT Air Guide

Clean CVT air guide from contamination

Installing the CVT Air Guide

For installation reverse the removal procedure.

Install **NEW** O-rings.



TIGHTENING TORQUE	
Service product	LOCTITE 243 (BLUE) (P/N 293 800 060)
CVT air guide retaining screws	10 N•m ± 1 N•m (89 lbf•**in** ± 9 lbf•**in**)