

Can Am X3 2 Piece Clutch Liner Install

*Refer to the OEM service instructions for both the Primary and Secondary Clutch removal, also in removing the rear cover. (See below)

Now that your rear plastic clutch cover is off and on the work bench you can install the 2-piece aluminum liner.

-Start with either side for the aluminum liner. (It does not matter what side is done first) Align it with the matching air duct hole on the plastic cover, they only go one way! Use an extra set of hands or clamps to hold it in place while you align it. Make sure it is flush with the rear cover before any drilling happens! Now use the pre drilled holes in the liner as a guide for where to drill your holes through the OEM plastic cover (Using a 1/4" drill bit).



Once one side is fully fitted, you can start on the other. It is designed to be a precise fit so you will need some strong hands or a set of clamps to get the second one installed and tucked tightly against the plastic cover. Once both ends of the liners line up and there are no major gaps you can drill your holes. Make sure both aluminum liners are fully fitted prior to drilling your second set of holes.



Tighten all the hardware using the provided phillip's screws, nylon locking nuts, and small washers. For the nylon nuts use a 5/16" open end wrench. There are a couple holes that a socket is hard to use, so a wrench is better. The screws are counter sunk, so you only need to use the washer on the back (Nut side). Now in reverse follow the OEM procedure to re-install the rear cover and clutches. Now you are ready to RIP!

Section 02 ENGINE, CVT AND GEARBOX

Subsection 12 (CONTINUOUSLY VARIABLE TRANSMISSION (CVT))

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.

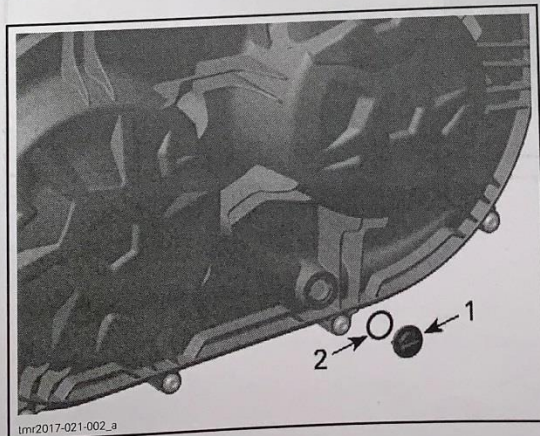
PROCEDURES

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

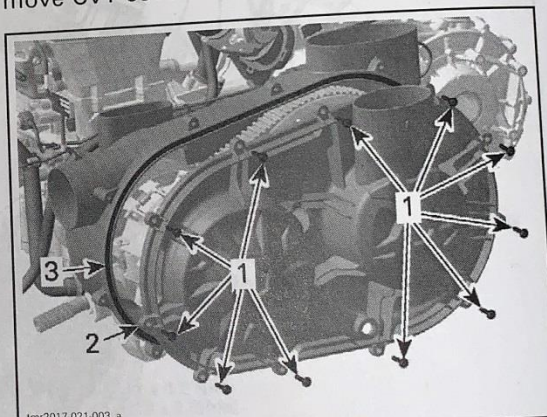
Detach CVT hoses from CVT cover.

Remove:

- Retaining screws
- CVT cover
- Gasket.

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

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



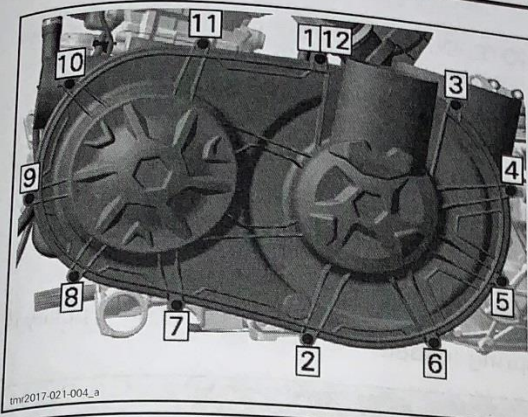
1. Retaining screws
2. CVT cover
3. Gasket

Installing the CVT Cover

Install the center top screw of first.

Tighten the CVT cover retaining screws as per following sequence.

Subsection 12 **Section 02 ENGINE, CVT AND GEARBOX**
(CONTINUOUSLY VARIABLE TRANSMISSION (CVT))



TIGHTENING TORQUE

CVT cover retaining
screws

$6 \text{ N}\cdot\text{m} \pm 0.7 \text{ N}\cdot\text{m}$
($53 \text{ lbf}\cdot\text{in} \pm 6 \text{ lbf}\cdot\text{in}$)

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)



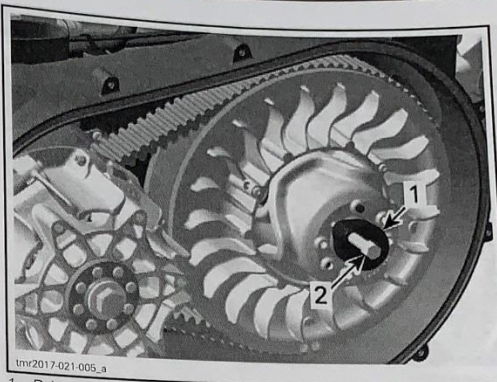
DRIVEN PULLEY ADAPTER
(P/N 708 200 720)



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

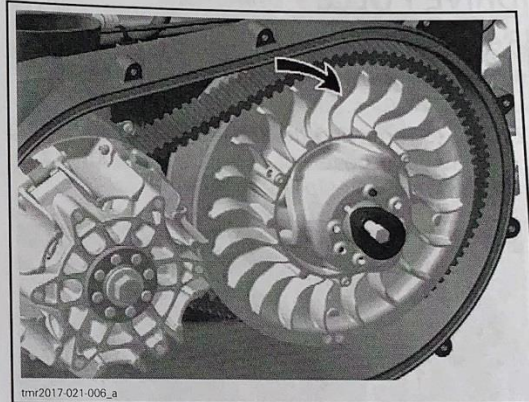
Screw in the driven pulley extractor into the threaded offset hole of the adapter.

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.

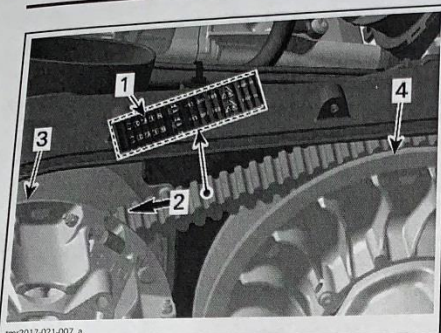
Installing the Drive Belt

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.

Section 02 ENGINE, CVT AND GEARBOX

Subsection 12 (CONTINUOUSLY VARIABLE TRANSMISSION (CVT))

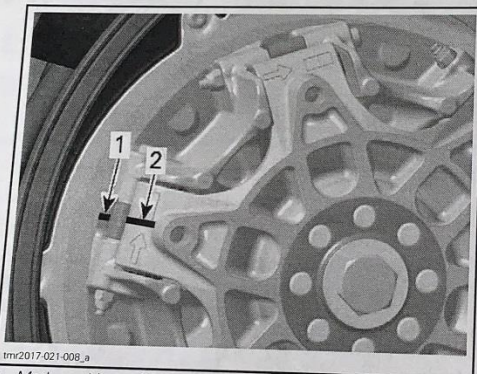


1. Arrow printed on belt
2. Rotation direction
3. Drive pulley (front)
4. Driven pulley (rear)

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)	

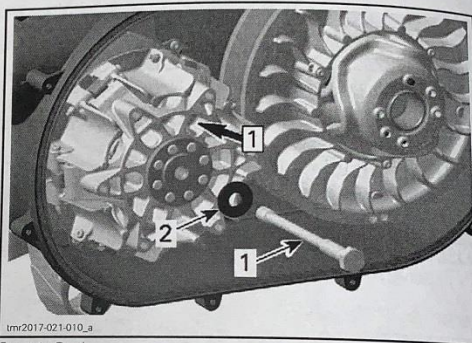
4. Loosen the drive pulley screw.

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)).

Subsection 12 **Section 02 ENGINE, CVT AND GEARBOX** (CONTINUOUSLY VARIABLE TRANSMISSION (CVT))

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

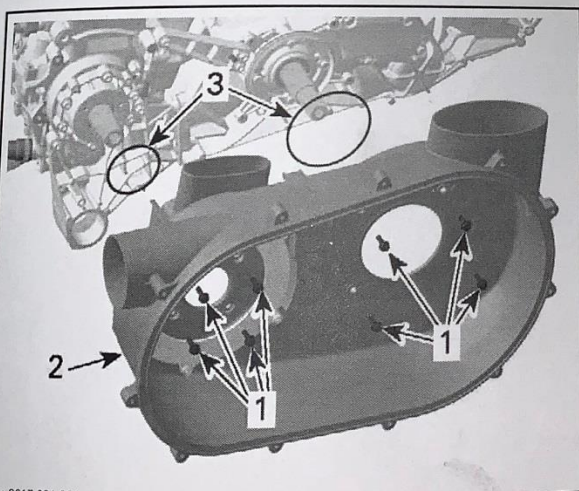
Remove:

- *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

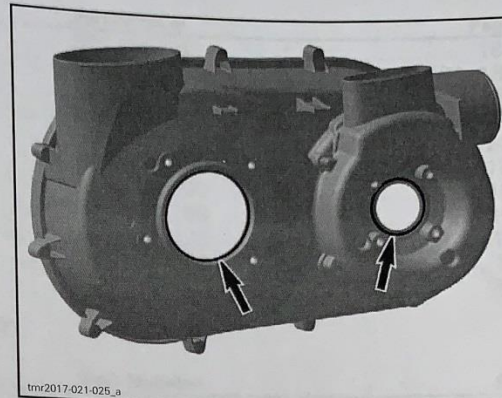
Inspecting the CVT Air Guide

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)