

RS 800 automatic transmission – Foot pedal sticking / difficult to put in reverse

I- Issue and root cause

Issue:

When releasing the right pedal, the tractor does not automatically return to the Neutral position:
“sticking pedal”

Inversion from forward to reverse is difficult.

The brake pedal functions normally.

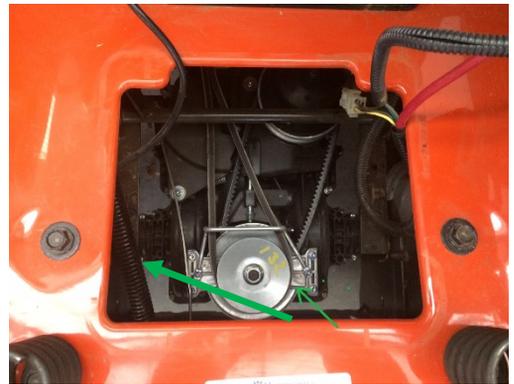
Root cause:

- 1) Debris prevents the primary pulley pulley to open and properly disengage the variation belt.
- 2) Dust prevents normal operation of the Inversion Security system

II- Debris under Primary pulley

Location:

The drive pulley is located at the rear end of the transmission, just below the tractor seat.

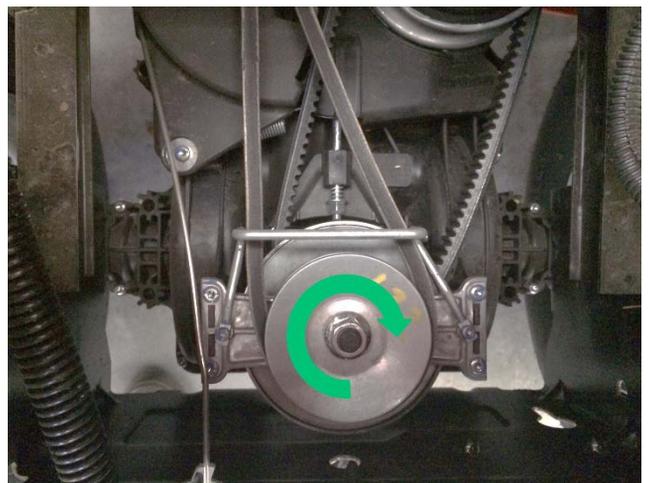


Test:

1 Engage the tractor parking brake to slacken the drive belt.

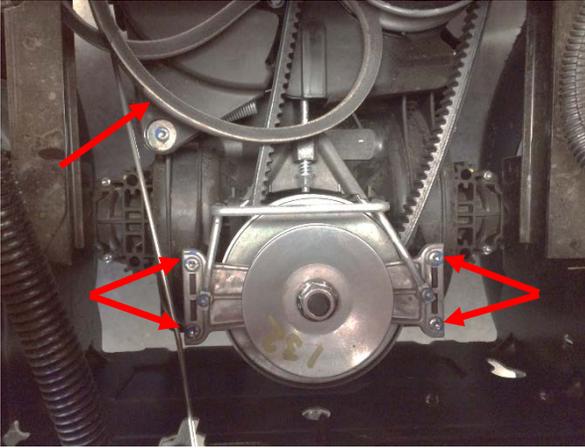
2 Manually rotate the pulley as shown below.

If the pulley cannot rotate freely, the primary pulley is not fully opened and keeps driving the variator belt.

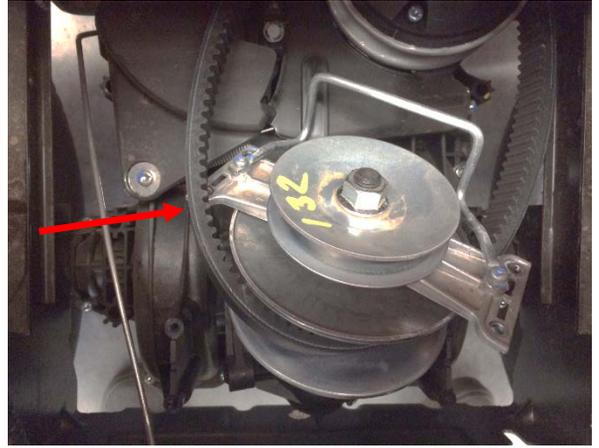


Clean the variator pulley area

1- Remove the drive belt and 4 screws



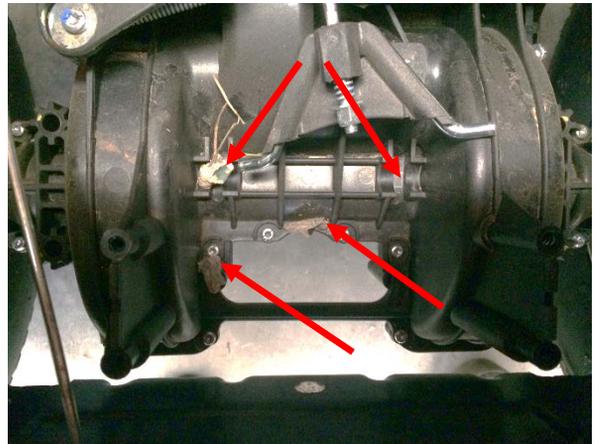
2- Remove the variator belt



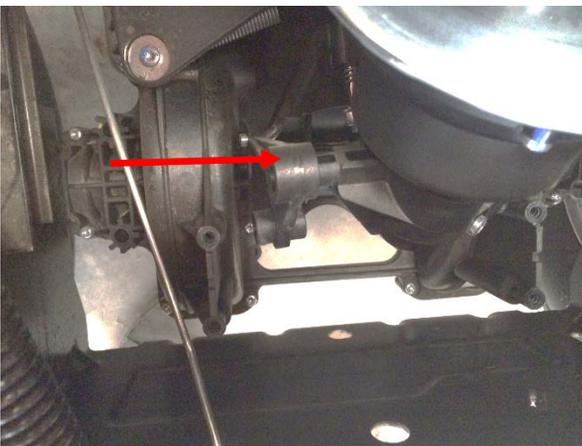
3- Remove both variator levers



4- Clean all the area from debris, pebbles, soil.



5- Install the variator lever on both sides of the variator pulley.



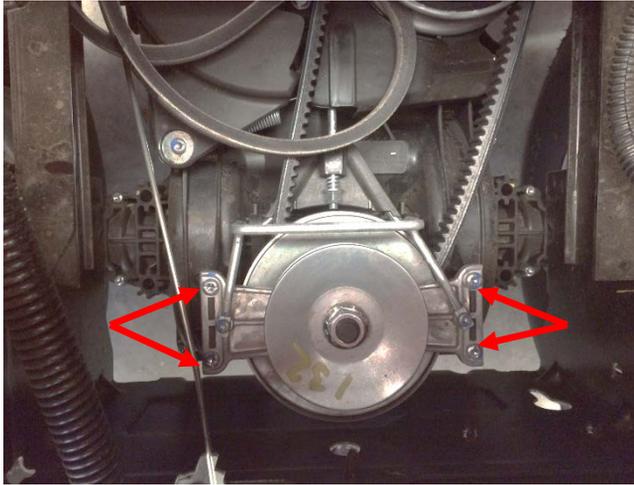
6- Insert the variator belt in the pulley.



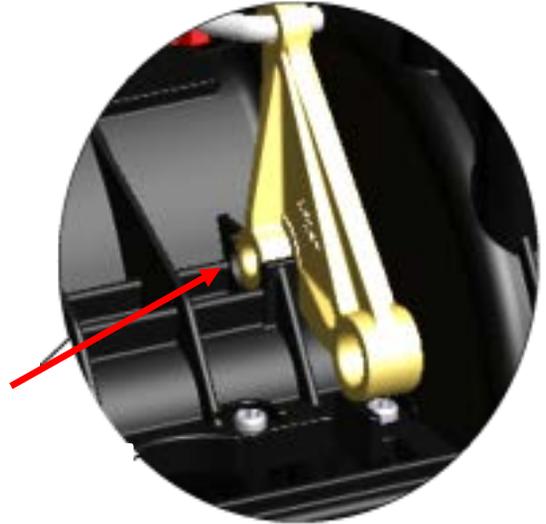
Clean the variator pulley area

6- Put back the variator pulley in place and tighten the 4 screws

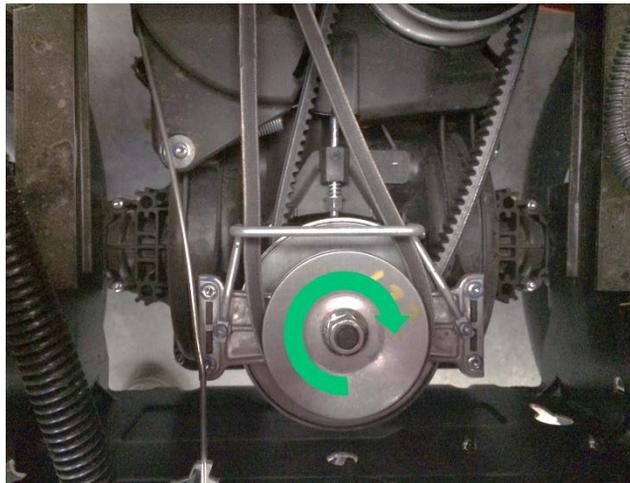
It is recommended to glue the screws using Loctite 454 or similar.



Make sure that both variator levers are properly seated in the housing



7- Make sure that the variator pulley rotates freely, then install the drive belt in the pulley



If part are visually damage it is recommended to change them from service kit: ref GT79254 for the pedal version and ref GT79325 for the fender version.

III- Replace the Inversion Security System

Location:

The Security system is a centrifugal system located just below the Secondary pulley.

- 1) Remove the secondary pulley to access the security system



- 2) Remove the Security inversion system



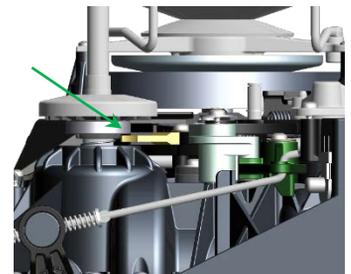
Make sure not to lose the balls under the flange



The system can be replaced or cleaned

- 3) Verify the functioning of the system

- The Security system should move freely and down on the input shaft.
- The stop lever should be free in rotation on the shift cam and should pass under the bearing of the security system when moving from forward to reverse.



- The Security system should automatically move down when the transmission is at full speed to prevent a sudden inversion, and move up to authorized the free rotation of the shift cam in neutral position.