

Service Kit 753-04882C

Date: 11/05/2008

Subject: Auger Clutch Interlock

Operation

Models 2004-2005, and Later Model Year 2-Stage Snow Throwers

Year 2-Stage Snow Throwers with the 'JUST ONE HAND' Auger Clutch Interlock Feature.

REFERENCE: S/A MTD-056B

Read through and understand these instructions completely before proceeding.

PURPOSE: Snow thrower models manufactured between 6/21/2004 through 8/01/2006 may experience the auger clutch (LH) handle not releasing freely when the wheel drive clutch (RH) handle is released. The problem may be the mechanism interlocking the wheel drive clutch motion to the clutch lock cam on the auger clutch (LH) handle. Inspection and diagnosis of the problem should be performed prior to installation of this kit to ensure that the pivot rod/clutch lock components are the true cause.

NOTE: These materials are prepared for use by trained technicians who are experienced in the service and repair of equipment of the kind described in this publication, and are not intended for use by untrained or inexperienced individuals. Such individuals should seek the assistance of an authorized service technician or dealer.

NOTE: Save this Instruction Sheet. Refer to it when ordering replacement parts.

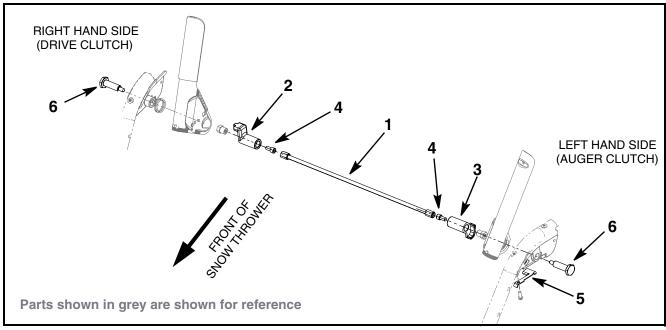


FIGURE 1

Service Kit Contents

(See Figure 1)

ITEM	PART	QTY	DESCRIPTION
NO.	NUMBER		
1	684-04250	1	ROD ASSEMBLY: PIVOT
2	731-04894D	1	PLATE: LOCK
3	731-04896B	1	CAM: CLUTCH LOCK
4	710-3069	2	SCREW: SOCKET HEAD CAP: 1/4"-20 x .50
5	732-04219C	1	SPRING: CLUTCH LOCK
6	738-04348	2	SCREW: SHOULDER: .437 x 1.345 : 1/4"-20
7	*	1	THIS INSTRUCTION SHEET

^{* -} Not Available Separately

Pre-Service Preparation:

NOTE: Reference to left (LH) and right (RH) sides, forward and rear are from the operator's position at the handle facing forward towards the auger housing.

- 1. Place the snow thrower on a flat and level surface.
- 2.Turn off the engine and allow the engine and muffler to cool before proceeding.
- 3. Disconnect the spark plug wire from the spark plug and ground to the engine block.
- 4. Ensure oil dipstick/plug is tight.
- 5. Drain the fuel tank (Preferred). Optional: Remove fuel cap from fuel tank. Place a piece of thin plastic sheet over the fuel tank fill port. Replace fuel cap and tighten securely.
- 6. Rotate the discharge chute to the left or right position.
- 7. Using the handles, tip the snow thrower forward so that the unit is resting on the front of the auger housing. See Figure 2. Check for oil or fuel leaks, correct as necessary.

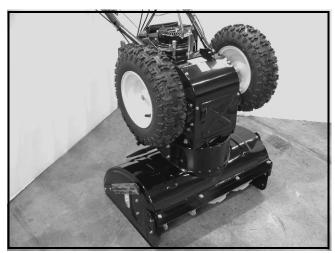


FIGURE 2

Clutch Lock Mechanism Disassembly:

NOTE: The following instructions where developed using a snow thrower model having a full plastic handle panel. These instructions are also applicable to those models with the metal handle panels. Metal handle panel models have different upper handle to handle panel mounting hardware.

8. If you have an auger clutch cable of the two piece swivel/locking nut style as shown in Figure 3A, proceed to Step 9.

If you have an auger clutch cable of the non-swivel style as shown in Figure 3B, jump to Step 10.

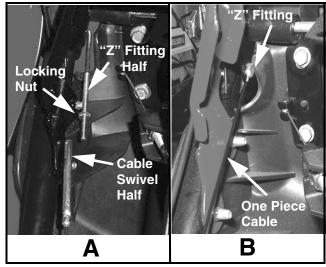


FIGURE 3

- 9. At the auger clutch engagement handle (LH side), loosen the jam nut on the clutch engagement cable swivel and unscrew the swivel from the "Z" fitting half. See Figure 3A. Proceed to Step 11.
- 10. Refer to Figure 4. Using a 3/8" socket and ratchet, loosen the top screw securing the auger clutch cable guide bracket. Slide the bracket up to loosen the clutch cable.

NOTE: Although not necessary, removing the upper screw provides additional cable slack for easier cable release from the clutch lever in the next step.

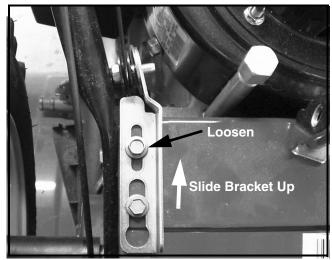


FIGURE 4

11. At the auger clutch lever (LH side), carefully unhook the auger clutch cable's "Z" fitting from the clutch lever.

NOTE: Observe how the cable is routed through the handle panel /handle bracket to the clutch lever for reassembly later.

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12. Using a 1/4" socket and ratchet or nut driver, remove the screw retaining the clutch lock spring to the LH clutch lock handle assembly. Discard the spring only. See Figure 5.

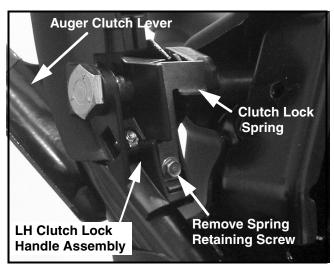


FIGURE 5

13. Using a 3/8" socket and a ratchet, remove the two screws securing the handle panel and panel bracket to the LH upper handle assembly. See Figure 6.

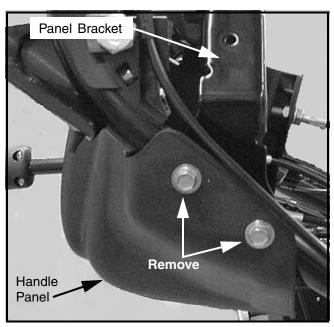


FIGURE 6

- 14. Remove the "T" knob and carriage bolt securing the LH upper handle assembly to the LH side of the lower handle.
- 15. Lift the LH upper handle assembly up out of the handle panel and away from the handle panel. This will allow the pivot rod to be removed from between the lock plate and clutch lock cam plastic fittings. Set the LH upper handle assembly on the bench.
- 16. Remove and discard the existing pivot rod assembly. Refer to Figure 1, Item #1.

- 17. Using a 3/4" socket and ratchet and a 1/2" open end wrench, separate the lock plate/shoulder hex nut assembly from the shoulder screw. See Figure 7.
- 18. Rotate the lock plate to clear the clutch lever and opening in the handle panel. See Figure 7. Remove the lock plate/shoulder hex nut assembly and set it on the bench.

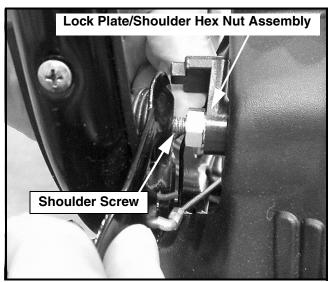


FIGURE 7

- 19. Using a 3/16" allen wrench and a 1/2" open end wrench, remove the socket head cap screw from within both the clutch lock cam and lock plate, separating the shoulder hex nut from the clutch lock cam and lock plate. See Figure 8.
- 20. Discard the clutch lock cam, clutch lock plate and both socket head cap screws. Retain both shoulder hex nuts. See Figure 8.

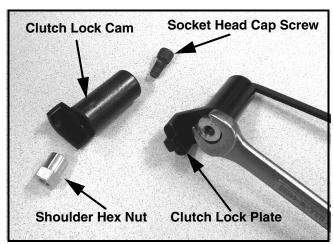


FIGURE 8

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New Clutch Lock Mechanism Installation:

21. While firmly holding the torsion spring loaded clutch lever in it's assembled position, carefully remove the existing shoulder screw and replace it with a new Shoulder Screw, Item 6. See Figure 9.

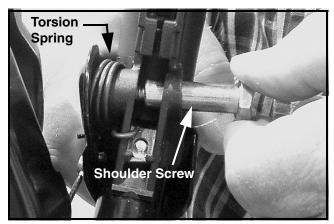


FIGURE 9

22. Using a 3/4" socket and ratchet and a 1/2" open end wrench, install a shoulder hex nut onto the new shoulder screw on the RH drive clutch lever. Tighten securely. See Figure 10.

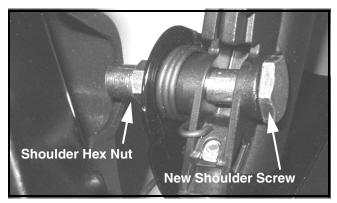


FIGURE 10

23. Using a 3/16" allen wrench and a 1/2" open end wrench, install the new Lock Plate, Item 2, with a new Socket Head Cap Screw, Item 4, to the RH clutch lever's shoulder hex nut. Tighten securely. See Figure 11.

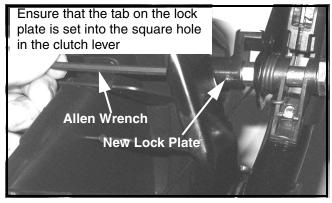


FIGURE 11

- 24. Assemble the new Pivot Rod, Item 1, into the RH lock plate. Ensure that the lock plate's "D" hole is aligned with the flat on the pivot rod.
- 25. At the bench, remove the existing shoulder screw from the LH clutch lock handle assemblyand clutch lever and replace it with a new Shoulder Screw, Item 6. Secure the clutch lever to the new shoulder screw with a shoulder hex nut. Tighten securely. See Figure 12A.

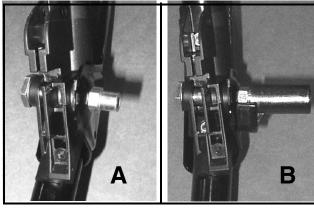


FIGURE 12

- 26. Install the new Clutch Lock Cam, Item 3, onto the shoulder hex nut. Tighten securely. Ensure that the Clutch Lock Cam rotates freely on the tightened allen head cap screw. See Figure 12B.
- 27. Position the completed LH upper handle assembly back at the LH side of the unit.
- 28. Align the clutch lock cam's "D" hole with the pivot rod's "D" fitting ensuring that the flat surfaces are mating. Slide the whole LH upper handle assembly into place in the handle panel.
- 29. Align the LH upper handle assembly with the two holes in the handle panel and panel bracket. Insert the two 1/4" Taptite screws removed in Step 13 and hand start into the panel bracket.
- 30. Using a 3/8" socket and ratchet tighten the two screws installed in Step 29.
- 31. Align the lower end of the LH upper handle assembly with the lower handle and install the carriage bolt and "T" knob removed in Step 14. Tighten securely.
- 32. Using a 1/4" nut driver, install the new Clutch Lock Spring, Item 5, to the clutch lock handle assembly using the screw removed in Step 12. Be careful not to strip the threads in the clutch lock handle assembly hole
- 33. Ensure the auger clutch cable is correctly routed. Reconnect the auger clutch cable's "Z" fitting to the auger clutch lever. Slide the auger clutch cable guide bracket down to remove slack so that the cable is just slightly taut with the clutch lever in the disengaged position and tighten the upper screw. Refer to Figure 4.

If so equipped, reconnect the cable's swivel fitting half to the "Z" fitting half and adjust the cable's length to remove slack so that the cable is just slightly taut with

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the clutch lever in the disengaged position. Tighten the jam nut aginst the swivel half.

Testing the Clutch Interlock Mechanism.

- 34. Hold down the LH (auger) clutch handle, then hold down the RH (wheel drive) clutch handle. Release the LH (auger) clutch handle. The LH (auger) clutch handle should remain in the down (engaged) position.
- 35. Release the RH (wheel drive) clutch handle. It must freely pop up due to spring load and the LH (auger) clutch handle must freely release (pop up) to disengage the augers.

- 36. If either operation in Steps 33 or 34 fails, review the Clutch Lock Cam and Lock Plate installation and correct.
- 37. Return unit to it's normal working position.
- 38. Refuel the fuel tank or remove the plastic saheet from under the fuel cap.
- 39. reconnect the spark plug wire to the spark plug.

This completes the installtion of the service kit.

NOTES

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