



# Service Advisory

CC-429

## HOME MAINTENANCE

Models Affected: 1525 (13A-221F100); 1527 (13A-241G100) and 1529 (13A-261H100)

Serial Number Range Affected: 2003 Model Year Units Manufactured at plant facility (code - "H") up to date code "D073" (April 7th, 2003). \*

Date: 6/02/2003

Subject: P/N 725-1426 STARTER SOLENOIDS

**PURPOSE:** Cub Cadet has become aware of a small number of solenoid failures in select model riders. Cub Cadet has determined that the units that may be in question were manufactured for the 2003 model year by one plant ( plant code = "H")\* using a single solenoid source. The solenoid can be identified as having the characters "WRWP" molded into the plastic housing. See Figure 2 on Page 2. To ensure customer satisfaction we suggest that any affected unit in stock or affected customer unit brought in for service issues be tested as defined in the "START TEST" section below.

### START TEST:

1. Ensure the battery is fully charged. The battery should be charged as part of a normal setup procedure.
2. Check the oil level in the engine. Add oil as required.
3. Add a small amount of clean fresh gas to the fuel tank, if required.
4. Ensure that the mower deck is dis-engaged and the brake or brake/clutch pedal is fully depressed.
5. Start the engine and allow to run for 5 seconds and then turn the engine off.
6. Wait 5 seconds and repeat Step 5. Repeat steps 5 and 6 a total of 5 times (cycles).
7. If you were able to complete the 5 cycles of Steps 5 and 6 successfully, go to Step 9.
8. If during the START TEST, the solenoid rapidly clicked, did not engage when the key was in the START position or did not disengage when the key was released, replace the solenoid. See instructions below.
9. If during the START TEST, the solenoid engaged when the key was in the START position and disengaged when the key was in the RUN or OFF position, for test each cycle, the solenoid is good and the unit is OK.

### REMOVAL INSTRUCTIONS:

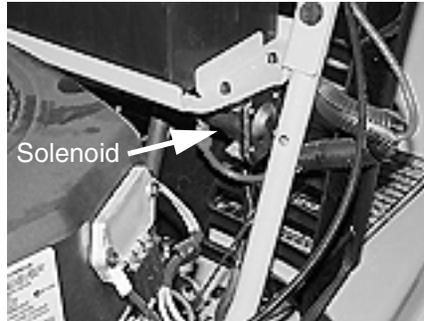
1. Turn key to the OFF position and remove from ignition switch.
2. Place parking brake in the ON position.
3. Locate the battery and disconnect the NEGATIVE (Black) wire first, followed by the POSITIVE (Red) wire next.
4. Refer to Figure 1 on Page 2. The solenoid is located mounted under the battery on the left side of the battery bracket. Left and right is from the operator's position.

\* Each unit is identified with a unique 11 character serial number. The 2<sup>nd</sup> through 5<sup>th</sup> character identify the month, day and year of production (date code). The rest of the characters should be ignored for purposes of determining if your unit is affected. For example, in Ser. No. 1**D073**H80001, the date code is "D073". D= April, 07= the 7<sup>th</sup> day of the month and 3= 2003. In Ser. No. 1**A213**H80999, "A213" is the date code. A= January, 21= the 21<sup>st</sup> day of the month and 3= 2003. The plant code is the 6<sup>th</sup> character of the serial number. For example, in Ser. No. 1D073**H**80001, the plant code is H = Martin.

Warranty: Normal warranty terms apply. Indicate Service Advisory CC-429 and 725-1426 as the original failed part on the claim. Repair time allowance is 0.4 Hrs. Test only time allowance is 0.2 Hrs.

SERVICE MANAGER	PARTS MANAGER	SALES MANAGER	SERVICE TECH.	SERVICE TECH.

Circulate and Initial



Cub Cadet Model

FIGURE 1

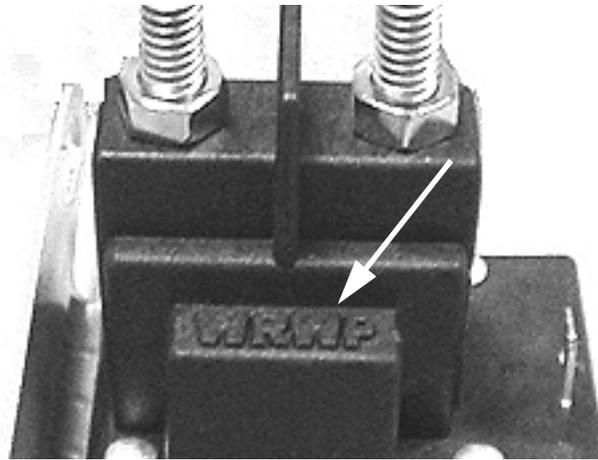


FIGURE 2

**REMOVAL INSTRUCTIONS:** (continued)

5. Locate the solenoid for unit being repaired.
6. Observe and record the connection location of the following wires to the solenoid. The POSITIVE (Red) and NEGATIVE (Black) wires coming from the battery, the heavy red wire from the harness, the green wire from the harness and the orange/white wire to the solenoid's flat blade terminal for reconnection in a later step. Dependent of tractor model the NEGATIVE (Black) battery wire may be connected at the frame and not the solenoid.
7. Depending on the solenoid location either remove the solenoid from the frame first then disconnect the wires from the solenoid or disconnect the wires from the solenoid and then remove the solenoid from the frame.
8. Retain the old solenoid for warranty.

**INSTALLATION INSTRUCTIONS:**

9. Reversing the removal instructions above, install a supplied replacement solenoid ( P/N 725-1426). Make sure the green wire from the harness is against the metal bracket of the solenoid. Tighten mounting bolts.
10. Reconnect the remaining wires removed in Step 7 above in accordance with the locations recorded in Step 6.
11. Torque the 1/4"-20 nuts on the two 1/4"-20 copper studs to 20-28 inch-pounds.
12. Double check the installation against that was recorded in Step 6.
13. Replace the battery tray and battery if removed in Step 4.
14. Connect the POSITIVE (Red) wire to the battery first. Then connect the NEGATIVE (Black) wire to the battery.
15. Test the installation by performing the START TEST as outlined in the START TEST section above.
16. This concludes the solenoid test and replacement.