

Service Kit 753-0891

CODE: R-448

DATE: September 27, 2000

SUBJECT: Cruise Control Kit

MODELS AFFECTED: 600-619, 800-819 tractors with
Cruise Control capability.

This service kit was designed as an optional accessory for those units with Cruise Control capability. These units, models 600-619 and 800-819, were manufactured after February 1999. This kit is only designed for these specific units and will not fit onto any other type of lawn or garden tractor. Prior to the installation of this kit is imperative that all of the instructions have been read and fully understood.

NOTE: Prior to installation run the engine empty of all fuel and allow for sufficient time to cool. Remove the ignition key, block the wheels, and disconnect the negative battery terminal. Secure the cable under the battery strap.

1. Remove the mounting screws holding the side panels and grill to the body of the tractor. Disconnect the headlights from the wiring harness noting how they will reinstall. Removing these body panels, while not critical, will greatly shorten installation time.
2. Remove the (6) screws that fasten the support tube (Figure 1) to the dash and frame of the tractor. The orientation of the top two screws may vary depending upon model style. It is important to take note of the hardware position and reattach it as it was from the factory. *This step is needed to provide enough clearance to remove the fuel tank. It may not be necessary to perform this step on units with single cylinder engines.*

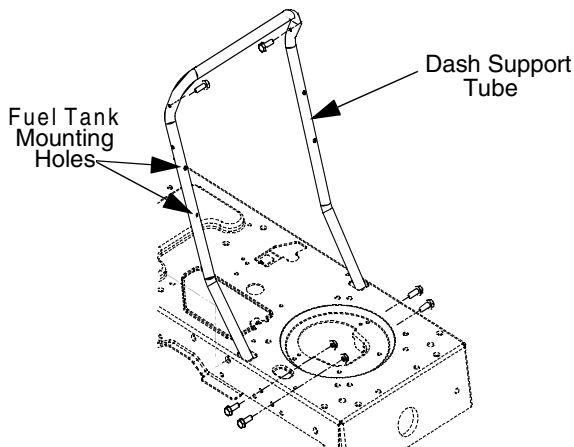


Figure 1

3. Remove the (4) fuel tank mounting screws (Figure 1) and then remove the fuel tank. To remove the fuel tank, carefully push the dash support tube toward the dash assembly while lifting the tank upward and toward the front wheels. (Figure 2) Pay particular attention to the routing of the fuel line so that it may be reinstalled exactly as it was prior to removal.

4. Remove the blank (A) covering the location in which the cruise control lever will be installed. Locate the blank on the inside of the dash adjacent to the parking brake lever. To remove the cruise control blank depress the two tabs (B) and push the blank toward the seat. (Figure 3)



Figure 2

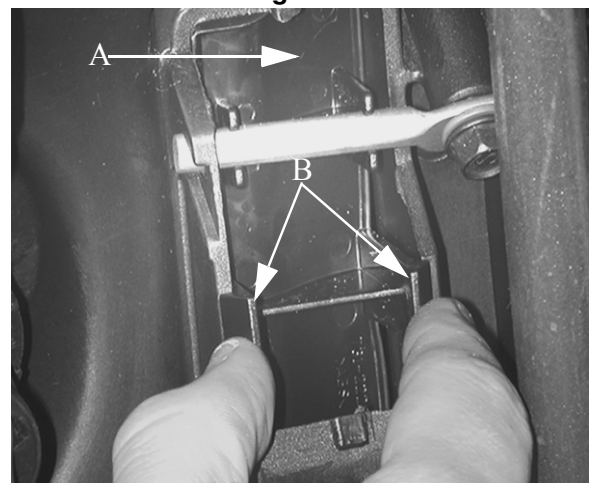


Figure 3

Form No. 770-1842A
(08/2000)

5. Remove the washer and cotter pin holding the ferrule (D) to the parking brake control lever (E). (Figure 4)
Only disconnect the parking brake rod at this end.
6. Remove the screw (N) (Figure 7) that fastens the Brake/Cruise pivot rod (F) (Figure 4) to the dash and then remove the pivot rod. *The pivot rod will be reinstalled exactly as it was removed once the cruise control lever is attached.*

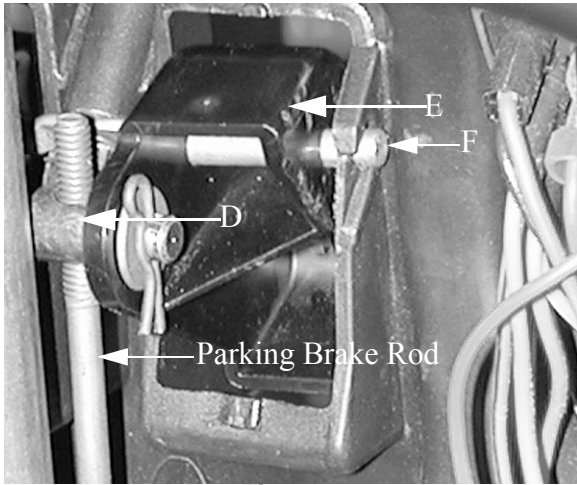


Figure 4

7. Insert the cruise control lever onto the Brake/Cruise pivot rod. (Figure 5) Reinstall the brake/cruise pivot bar in the same orientation as it was removed.

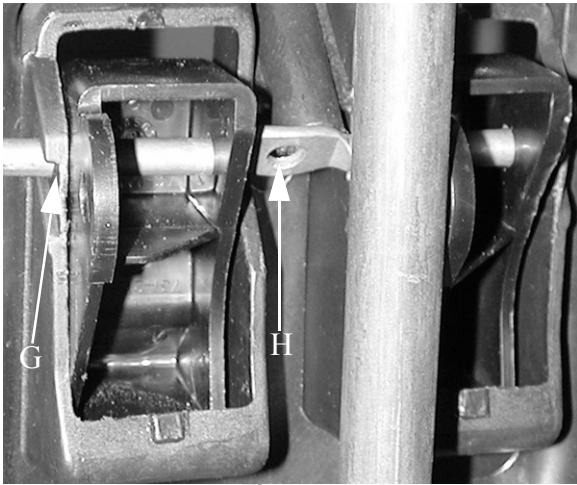


Figure 5

NOTE: The brake/cruise pivot rod should be installed into the hole in the outer cruise lever dash support (G) to begin installation. The rod should then be pressed into the corresponding hole in the opposite side of the dash. Reinstall the pivot bar mounting screw once the mounting hole (H) is aligned. (Figure 5)

8. Reinstall the parking brake rod to the parking brake control lever with the ferrule, washer, and cotter pin. (Figure 4)
9. Verify that the parking brake is working properly before continuing installation. Refer to your Owner's manual for brake adjustment if necessary.

10. Install the cruise latch gear to the extruded hole on the frame (I) of the tractor using the lock nut and shoulder screw.. Once the latch gear is attached loosely, install the extension spring to the hole in the latch gear closest to the dash (J) and the corresponding hole in the frame (K). The spring should be hooked on the cruise latch gear on the operator's right side. Tighten the assembly once all hardware has been properly installed. (Figure 6)

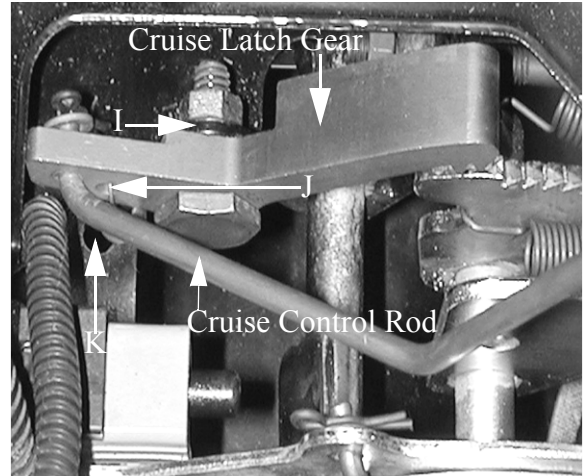


Figure 6

11. Attach the cruise control rod with the washer and cotter pin to the cruise latch gear through its forward most hole. (Figure 6)

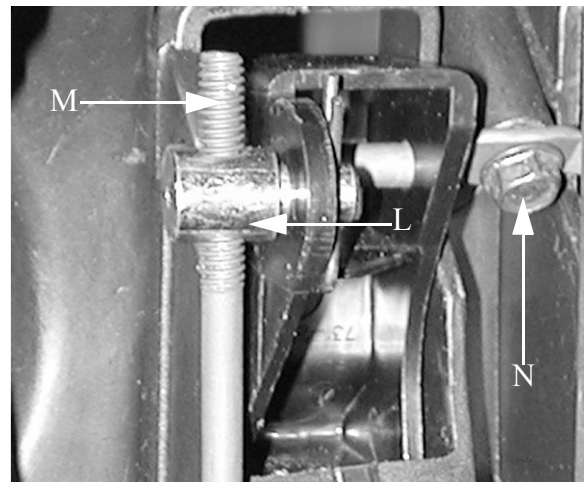


Figure 7

12. Thread the ferrule (L) onto the top of the cruise control rod (M) and insert it through the cruise control lever attaching it with the washer and cotter pin. (Figure 7)

NOTE: Adjust the ferrule so that the cruise control lever hangs in a manner identical to that of the parking brake lever when it is not activated.

13. Test the operation of the cruise control by depressing the forward drive pedal while pushing the lower half of the cruise control lever forward. With the cruise control lever in its engaged position slowly release the forward

drive pedal. When operating correctly, the pedal will return slightly but stop once the cruise latch gear aligns with the cruise control gear. Depress the brake to release the cruise control. Test several times before continuing.

14. Once the cruise control is operational, reassemble the remaining components in the reverse order of installation.

NOTE: When reinstalling the fuel tank take extra care to insure that the fuel line is routed exactly as it was prior to beginning the installation of the cruise control. The fuel line insulation sleeve (O) should be routed between the fuel tank and the engine cooling fins. It is important that this sleeve covers any part of the fuel line directly exposed to the heat of the engine.

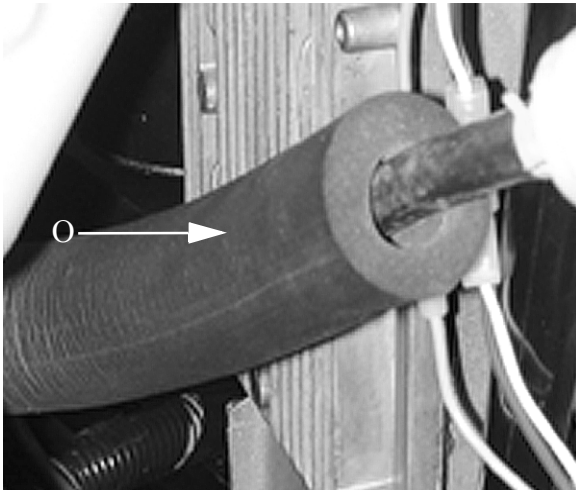
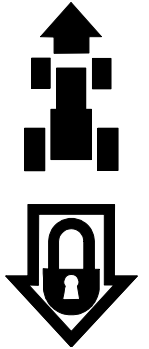


Figure 8

SETTING THE CRUISE CONTROL

NOTE: The cruise control feature should only be utilized in the forward direction.

- Place the shift lever in the FORWARD position, then slowly depress the drive pedal until the desired speed is achieved.
- Lightly depress the cruise control button.
- While continuing to hold the cruise button in, lift your foot from the drive pedal (you should feel the cruise latch engage).
- If properly engaged, the cruise control button and the drive pedal should lock in the down position, and the tractor will maintain the same forward speed.
- Disengage the cruise control using one of the following methods:
 - Depress the brake pedal to disengage the cruise control and stop the tractor.
 - Lightly depress the drive pedal.



To change to the reverse direction when operating with cruise control, depress the brake pedal to disengage the cruise control and bring the tractor to a complete stop. Then place the shift lever in the REVERSE position and depress the drive pedal.

Illustrated Parts List

for service kit 753-0891

REF NO.	PART NO.	QTY.	DESCRIPTION
1	731-2226	1	Cruise Control Lever
2	732-0955	1	Extension Spring.50 x 1.41" long
3	714-0104	2	Cotter Pin
4	748-0413	1	Cruise Control Latch
5	738-0507B	1	Shoulder Screw.50 x .43
6	736-0142	1	Flat Washer.281 x .50
7	736-0204	1	Flat Washer.344 x .62
8	747-1137	1	Cruise Control Rod
9	711-0736	1	Adjustment Ferrule
10	712-0431	1	Hex Lock Nut 3/8 - 16
11	736-3004	1	Flat Washer <i>ADDED 3-6-01</i>

