

REMOTE CONTROL ATTACHMENT KIT A-39466A2

1. Remove top cowl.
2. For 1969 and prior models, see Figure 1. Knock out or cut out right and left side areas of bottom cowl as shown.

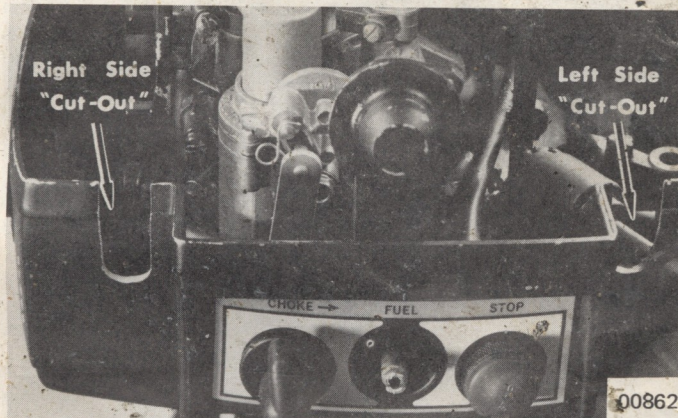


Figure 1. Knock Out Plate Location, 1969 and Prior Models

3. For 1970 thru 1973 models, see Figure 2. Knock out right and left side areas of the bottom cowl as shown.

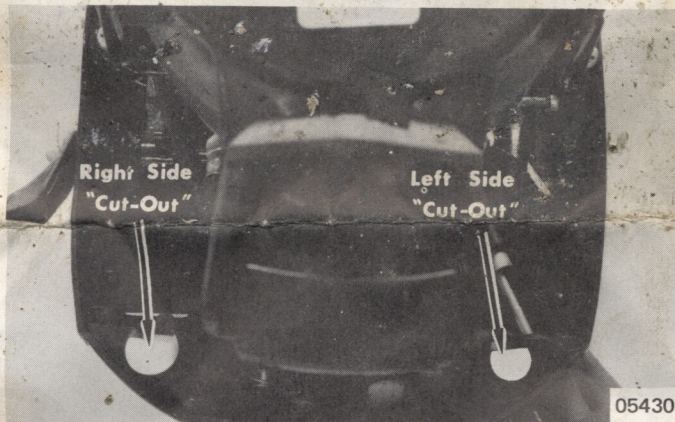


Figure 2. Knock-Out Plate Location, 1970 thru 1973 Models

4. Remove plastic fillers from bottom cowl left and right sides. Use pliers to grip the fillers, then lift out.
5. Place rubber grommet into slot, created in Step 2, and secure with self-tapping screw and washer. (Figure 3)
6. Place plastic guide into openings created in Step 4.

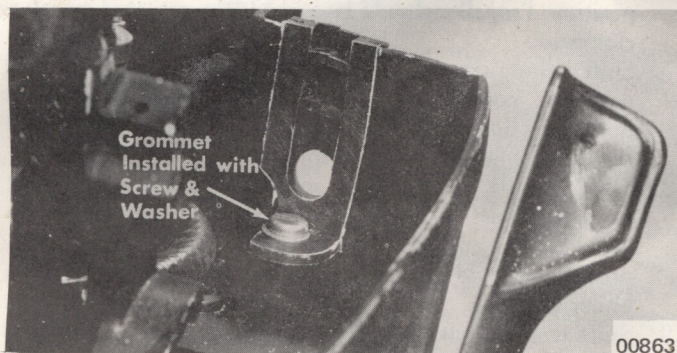


Figure 3. Grommet Installed

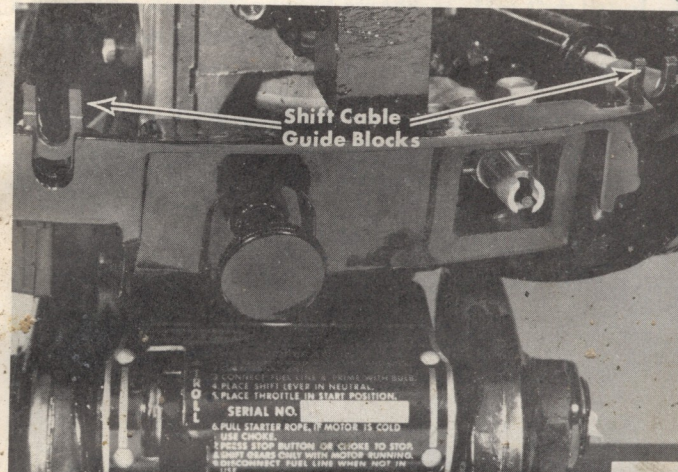


Figure 4. Guide Installed

INSTALLING SHIFT CABLE ATTACHMENTS

1. Install shift control clevis assembly into shift lever. (Figure 5) Check that paint in shift lever does not cause a bind. Install cotter pin thru shift lever and spread ends.

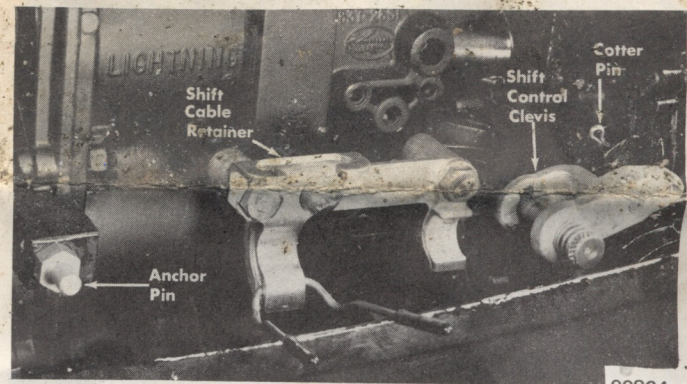


Figure 5. Shift Control Clevis and Shift Cable Retainer Installed

2. Assemble shift cable retainer bracket, spring mount bracket and cable retainer spring with a 3/8" (9.5mm) long phillips head screw. (Figure 6)

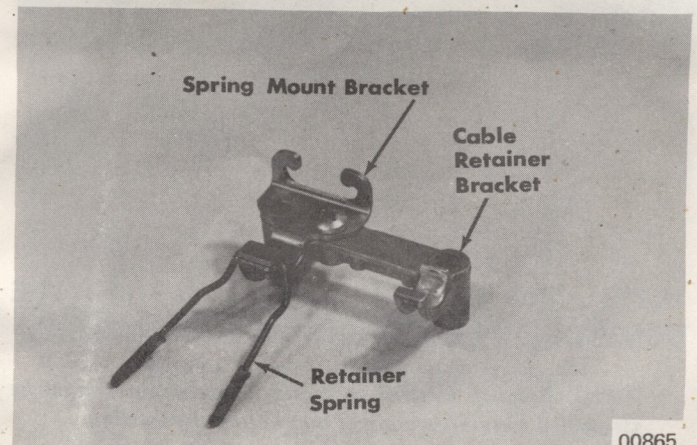


Figure 6. Shift Cable Retainer Bracket Assembled

3. Install assembled shift cable retainer to right side of cylinder block with two 1½" (38mm) long bolts. See Figures 5 and 6.
4. Install shift cable anchor pin to cylinder block cover with a ¼"-28 nut. (Figure 6) Anchor pin is part of cylinder block cover on 1974 models.

INSTALLING THROTTLE CABLE ATTACHMENTS

1. Install throttle control link assembly into throttle lever. Check that paint in throttle lever does not cause a bind. Install cotter pin and spread ends. (Figure 7)

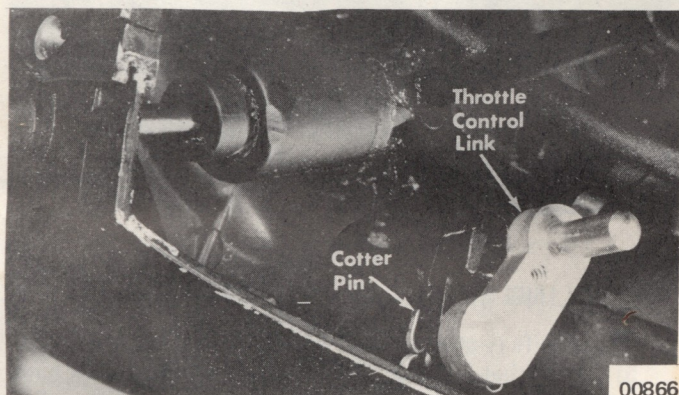


Figure 7. Installing Throttle Control Link

2. Install spring mount bracket and cable retainer spring to exhaust cover (left side of engine) with two 3/8" (9.5mm) long phillips head screws. (Figure 8)

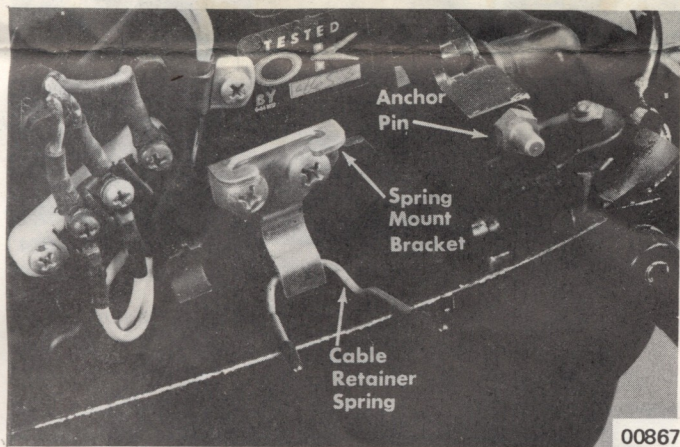


Figure 8. Installing Mount Bracket and Cable Retainer Spring

3. Install throttle cable anchor pin to cylinder block cover with a ¼"-28 nut. (Figure 8) Anchor pin is part of cylinder block cover on 1974 models.

INSTALLING REMOTE SHIFT and THROTTLE CONTROL CABLES

NOTE: Remote control shift and throttle cables must be assembled to remote control box before proceeding.

A. Shift Control Cable

1. Place remote control handle in neutral position.
2. Insert remote control shift cable into bottom cowl at front right side with brass barrel inside cowl.

3. With motor in neutral gear, place cable end guide over anchor pin on cylinder block cover. Cable must pass under shift shaft clevis. Secure cable end in place by latching cable retainer spring. (Figure 9)

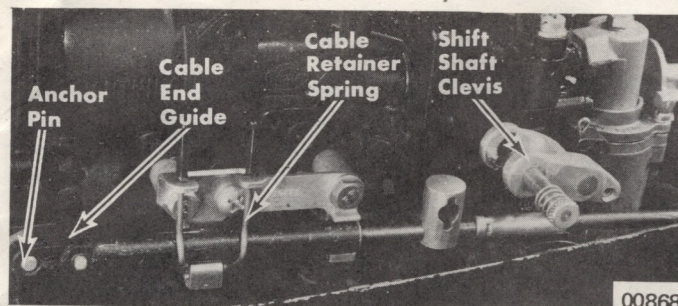


Figure 9. Fastening Shift Cable End

4. Position spring loaded clevis pin outward as far as possible. (Figure 10)

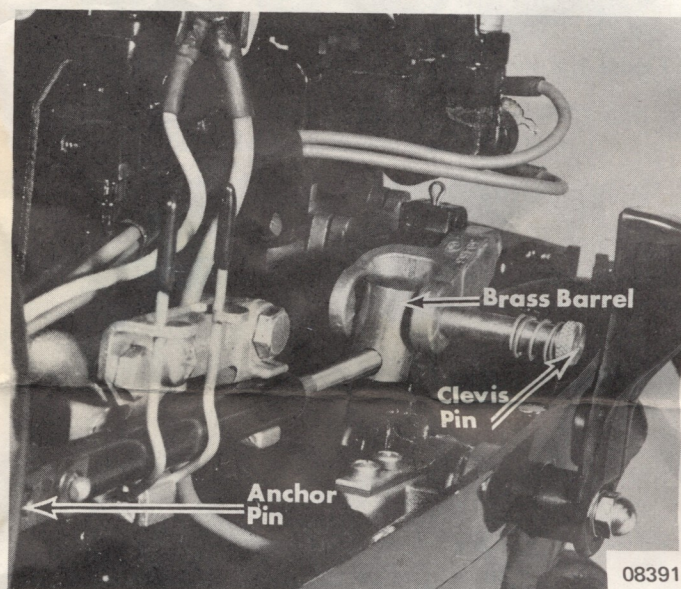


Figure 10. Clevis Pin

5. Adjust brass barrel so that hole in barrel aligns with clevis pin. Insert clevis pin thru brass barrel and opposite side of clevis. Turn clevis pin 90° to lock the pin in place. To ease clevis pin installation, shift both control box and engine into forward gear.
6. Check shifting by shifting remote control to forward position. Propeller should be locked when rotated counter-clockwise.
7. Shift remote control to neutral without going past neutral detent in control box. Propeller should rotate freely in both directions. If a bind occurs in shifting, brass barrel should be adjusted closer to anchor pin.
8. Shift remote control into reverse position (note that propeller must be rotated while shifting into reverse to avoid loading of the shift shafts). When in reverse gear, propeller should not be free to rotate more than 45° in either direction.
9. Shift remote control to neutral without going past neutral detent in control box. Propeller should be free to rotate in both directions.
10. In Steps 6 thru 9, if the described conditions are not achieved, readjustment of brass barrel is necessary.
11. If readjustment of brass barrel was necessary, repeat Steps 5 thru 9.

B. Installing Throttle Control Cable

1. Place remote control handle in neutral position and neutral warmup lever all-the-way down.
2. Insert remote throttle cable into bottom cowl at front left side with brass barrel inside cowl.
3. With upper throttle lever against idle stop screw, place adjusting brass barrel on pin of throttle lever link. Cable must be inside pin, as shown in Figure 11.

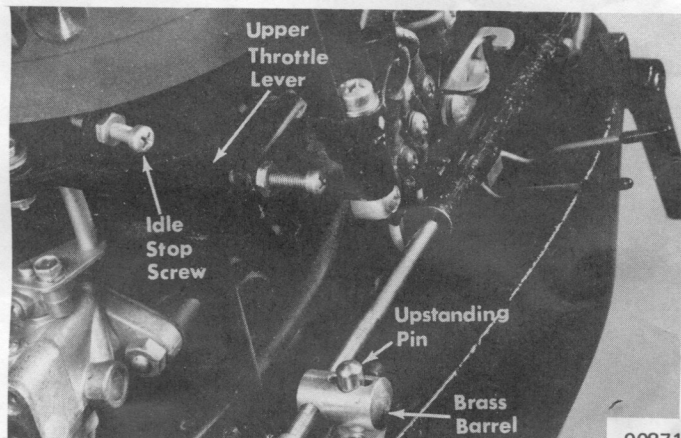


Figure 11. Attaching Throttle Cable Brass Barrel

4. Place throttle cable end over throttle anchor pin at cylinder block cover and secure with cable retainer spring. (Figure 12)

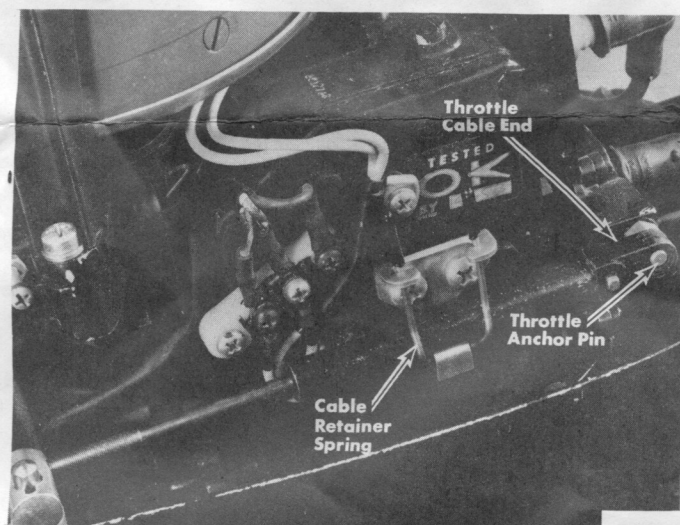


Figure 12. Securing Throttle Cable End

5. It may be necessary to adjust position of brass barrel so that throttle closes completely. It MUST close completely against idle speed stop screw and not be preloaded. To check this adjustment, move remote control handle to open the throttle. Hold a thin sheet of paper between idle speed stop screw and throttle control lever. Close throttle by moving remote control handle to neutral position. Neutral warmup lever must be down all-the-way. If paper cannot be removed at this time, brass barrel must be positioned closer to anchor pin. If no drag exists on paper, move brass barrel away from anchor pin.

STOP SWITCH INSTALLATION

1. Unscrew and remove rubber stop switch cover, brass button and spring. On late model engines, remove plastic

plunger and plunger return spring. Remove insulator sleeve from stop switch terminals on early engines.

2. Install new spring (smaller diameter) inside hole in post of stop switch. (Figure 13)
3. Remove plastic protector cap from harness connector.
4. Push harness connector plug into stop switch and tighten ring nut. (Figure 14)

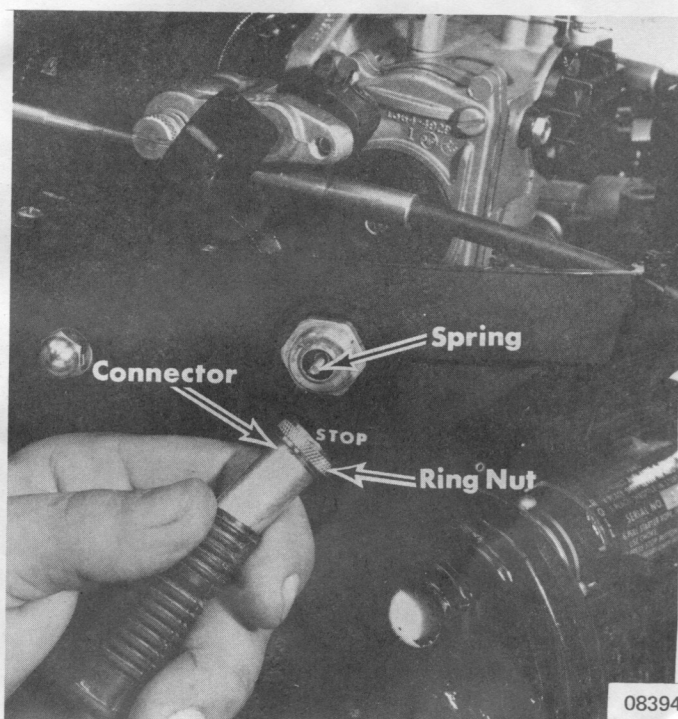


Figure 13. Spring Installed



Figure 14. Installing Stop Switch Connector

5. Install top cowl.
6. Model 1972 and later engines are equipped with a troll set tension knob which must be turned counterclockwise to relieve tension on throttle twist grip. If not adjusted, remote control could operate with difficulty.