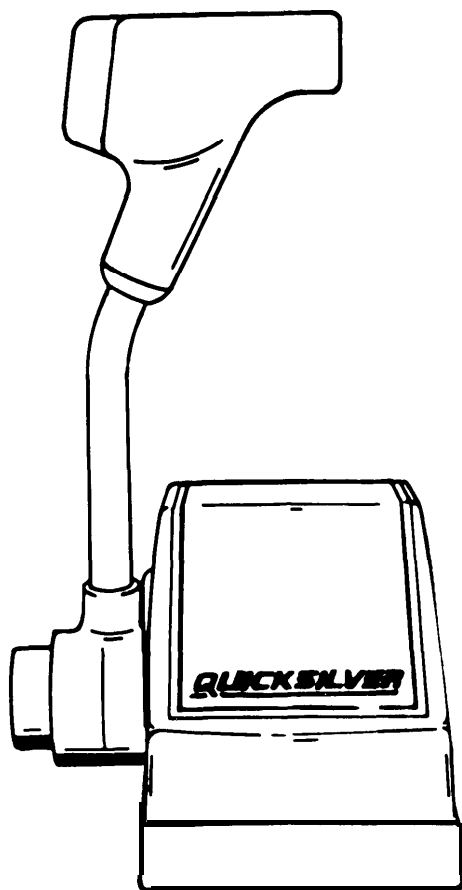


88688A26 SINGLE HANDLE TRIM CONTROL INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

NOTICE to INSTALLER

After Completing Installation, These Instructions Should Be Placed with the Product For the Owner's Future Use.

These installation instructions provide complete information for installing the remote control. Please read them carefully and thoroughly before starting installation.




24906

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Notice to Installer/Owner

Throughout this publication, and on your motor, DANGER, WARNINGS and CAUTIONS (accompanied by the international HAZARD Symbol ) may be used to alert the installer/ user to special instructions concerning a particular service or operation that may be hazardous if performed incorrectly or carelessly. OBSERVE THEM CAREFULLY!

These "Safety Alerts" alone cannot eliminate the hazards that they signal. Strict compliance to these special instructions when performing the service, plus "common sense" operation, are major accident prevention measures.

DANGER

DANGER - Immediate hazards which **WILL** result in severe personal injury or death.

WARNING

WARNING - Hazards or unsafe practices which **COULD** result in severe personal injury or death.

CAUTION

CAUTION - Hazards or unsafe practices which could result minor personal injury or product or property damage.

IMPORTANT: - Indicates information or instructions that are necessary for proper operation and/or maintenance.

Maintenance and Replacement Parts

Maintenance and safety instructions are owner's responsibility and must be performed at intervals specified, following:

Normal Service - Every 50 hrs. of operation or 60 days (whichever comes first)

***Severe Service** - Every 25 hrs. of operation or 30 days (whichever comes first)

*Operation in a salt water area is considered "Severe Service."

1. Check fasteners, which secure remote control to boat, to be sure that they are tight.
2. Check set screws, which secure control handles to remote control, to ensure they are torqued to 60 lb. in. (7 N.m.)

3. Check electrical connections to be sure that they are tight, and that harness is properly secured and kept away from bilge water.
4. Inspection and lubrication of remote control assembly should be performed once each year (by your authorized dealer), or whenever remote control is disassembled, or if control operating effort has increased. Lubricate with Quicksilver 2-4-C Marine Lubricant or equivalent.
5. Quicksilver throttle and shift control cables recommended for use in this remote control.

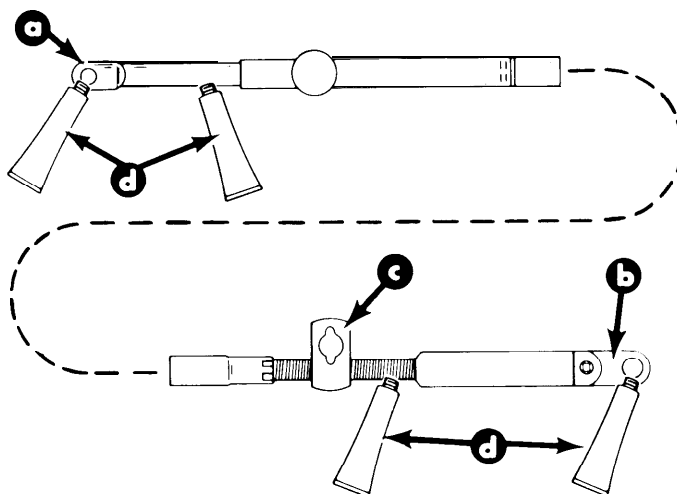
Selecting Remote Control Cables

Refer to outboard "Quicksilver Dealers' Guide" to determine correct length of control cables.

IMPORTANT: Remote control cables **MUST BE THE CORRECT LENGTH**, sharp bends on too-short cables result in "kinks"; too-long cables require unnecessary bends and/or loops. Both conditions place extra stress on the cables.

IMPORTANT: Check throttle and shift cables **BEFORE** installing in control modules to ensure that set screws in cable end guides are tight. Torque cable end guide set screws to 20 to 25 lbs. in. (2.3 to 2.8 N.m.)

Shift Cable/Throttle Cable Lubrication Points Use Quicksilver 2-4-C Marine Lubricant.



- a - Remote Control End
b - Engine End
c - Adjusting Barrel
d - Lubricant

22005

Introduction

This console mount control provides complete one hand operation of the shift and throttle control. The control is equipped with a neutral start switch which must be connected to prevent accidental in-gear starting. The shift and throttle cables are not supplied with control; order cables separately after position of control is determined.

Quicksilver throttle and shift control cables are recommended for use in this remote control.

These installation instructions provide complete information for installing the remote control. Please read them carefully and thoroughly before starting installation.

Installation

1. Determine position of remote control. Refer to "Mounting Remote Control".

IMPORTANT: Control mechanism will have to be changed if control will be on port side. Refer to "Remote Control Alteration".

⚠WARNING

If control handle is removed and reinstalled for any reason. The set screw in handle must be retorqued to 60 lb. in. (7 N.m). Failure to tighten screw securely could allow control handle to disengage with subsequent loss of throttle and shift control.

2. Install control cables to remote control. Refer to correct cable installation procedure in this manual. Note that cable installation is different, depending on which side the control will be installed.

On some boat installations, it may be helpful to first make the cutout for remote control (using the attached template) and routing the control cables thru the boat before installing cables to control.

3. Mount the remote control and trailer switch following instructions. Make remote control wiring connections following "Wiring Diagram".
4. Install and adjust shift and throttle cables to power package following instructions which accompany the power package or refer to the Product Service Manual.
5. Final Checks and Adjustments
 - a. Re-check tightness of control handle set screw. Set screw should be torqued to 60 lb. in. (7 N.m).
 - b. Before remote control is securely fastened, make sure parts are in place. Check to see that control cables and control wiring harness are routed correctly.

⚠CAUTION

Do not try to shift remote control into "Reverse" on outboard installations when outboard is not running. Forcing the shift mechanism into reverse may damage the mechanism.

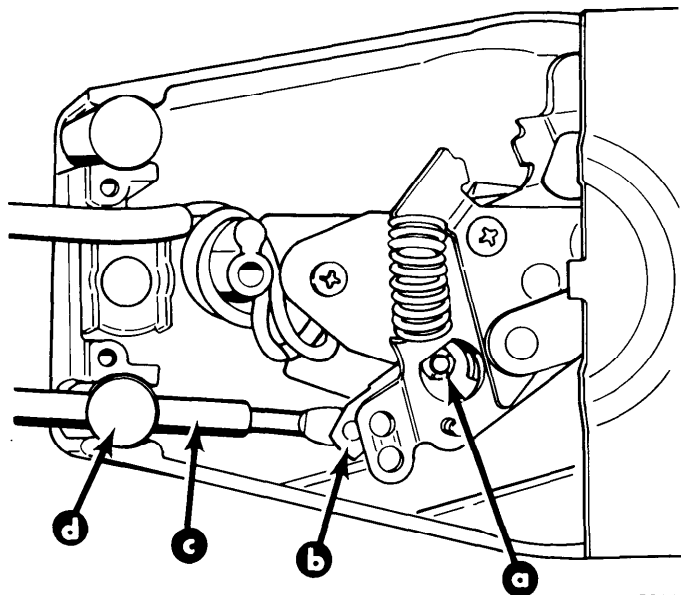
- c. Operate control handle several times (see "Caution" preceding). Adjust control handle friction adjustment screw to desired tension. Any binding or stiffness in the operation of the control handle is usually caused by the following.
 - 1 - Bends or tension on control cables, close to the control.
 - 2 - Excessive number of bends in cables.
 - 3 - Bends are too small in cables.
 - 4 - Tight engine linkage.
- d. Adjust the control handle detent adjustment screw to desired tension.
- e. Check operation of neutral start switch. Engine must only be able to start when control handle is in neutral position. Make sure water intake in lower unit is in water when starting engine.

Starboard Side Control Module Cable Installation (All Models except 250 hp 3.4 Litre Outboard and Above)

▲CAUTION

Before tightening cable fastener locknut, be sure that pin on end of cable fastener is completely thru cable end and shift/throttle lever. A pin, that is partially thru cable and lever, may cause fastener to bend when locknut is tightened.

Shift Cable

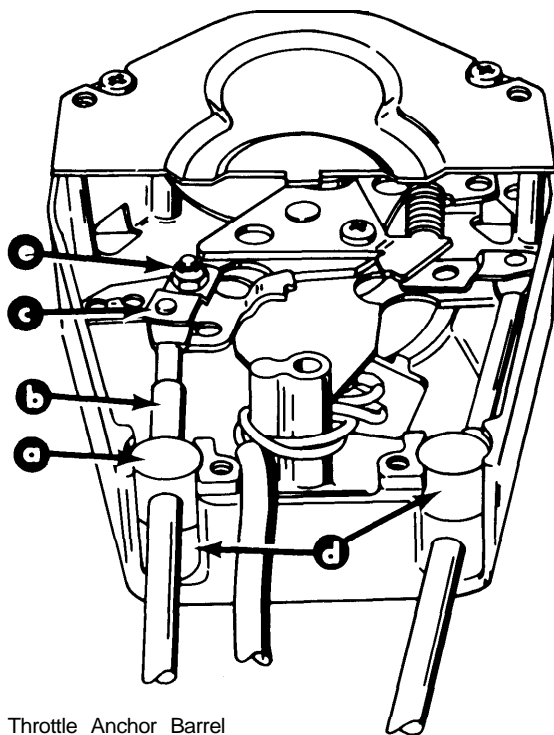


- a - Locknut (Cable Fastener)
- b - Cable Fastener
- c - Shift Cable
- d - Cable Anchor Barrel

50111

Torque shift cable fastener locknut to 20 to 25 lb. in. (2.3 to 2.8 N.m).

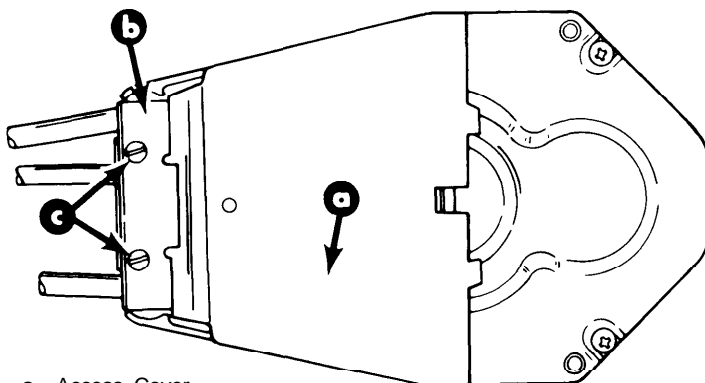
Throttle Cable



50030

- a - Throttle Anchor Barrel
- b - Throttle Cable
- c - Cable Fastener
- d - Spacers (From Parts Bag)
- e - Cable Fastener Locknut

Torque throttle cable fastener locknut to 20 to 25 lbs in. (2.3 to 2.8 N.m.)



50030

- a - Access Cover
- b - Cable Retainer
- c - Screws

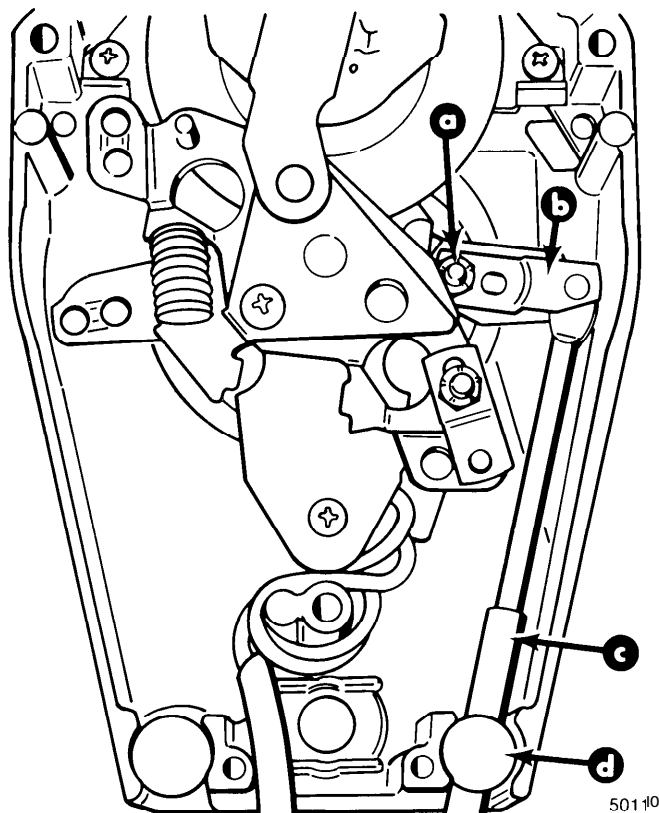
Position access cover and cable retainer onto back side of control and secure both to control with 2 screws. Torque access cover and cable retainer screws to 60 lbs. in. (7 N.m.)

Starboard Side Control Module Cable Installation (250 hp 3.4 Litre Outboard and Above)

⚠CAUTION

Before tightening cable fastener locknut, be sure that pin on end of cable fastener is completely thru cable end and shift/throttle lever. A pin, that is partially thru cable and lever, may cause fastener to bend when locknut is tightened.

Shift Cable

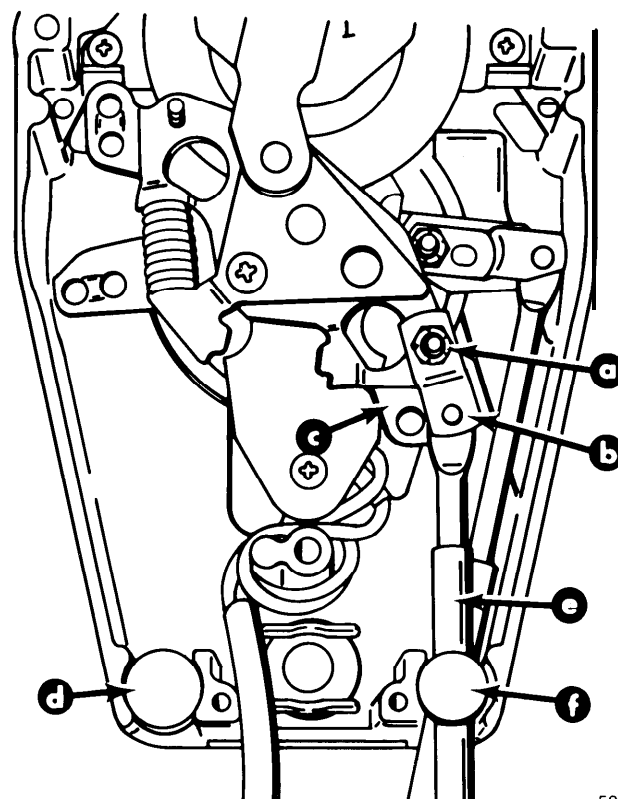


- a - Cable Fastener Locknut
- b - Cable Fastener
- c - Shift Cable
- d - Cable Anchor Barrel

IMPORTANT: Cable fastener (b) must be relocated to position as shown.

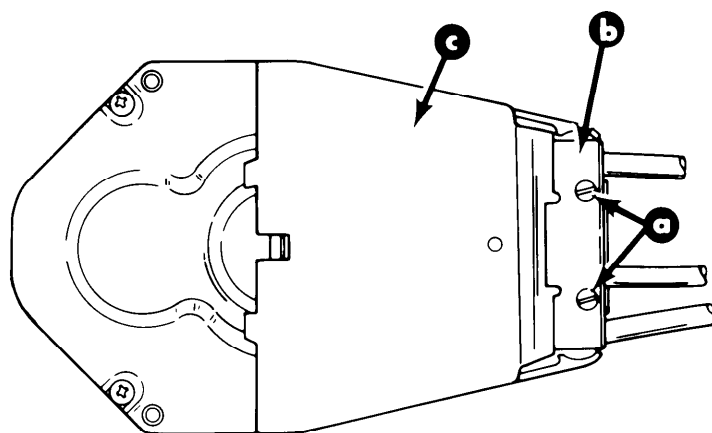
Torque shift cable fastener locknut to 20 to 25 lb. in. (2.3 to 2.8 N.m).

Throttle Cable



- a - Cable Fastener Locknut
- b - Cable Fastener
- c - Throttle Lever
- d - Spacer (From Parts Bag)
- e - Throttle Cable
- f - Cable Anchor Barrel

Torque throttle cable fastener locknut to 20 to 25 lbs in. (2.3 to 2.8 N.m.)



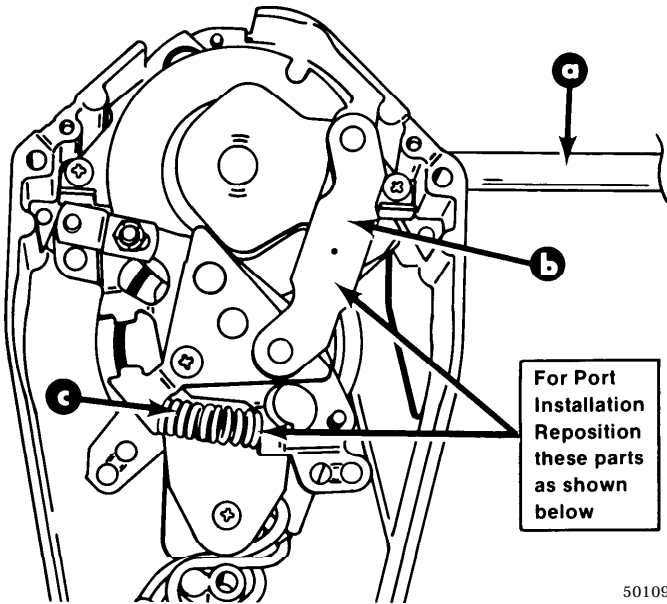
- a - Screws
- b - Cable Retainer
- c - Access Cover

Position access cover and cable retainer onto back side of control and secure both to control with 2 screws. **Torque access cover and cable retainer screws to 60 lbs. in. (7 N.m.)**

Remote Control Alteration for Port Installation

Throttle link and throttle spring must be changed when control handle will be positioned on the right side of remote control.

1. Remove remote control module back cover.
2. Move control handle to position shown.
3. Reposition throttle link and spring to position shown.

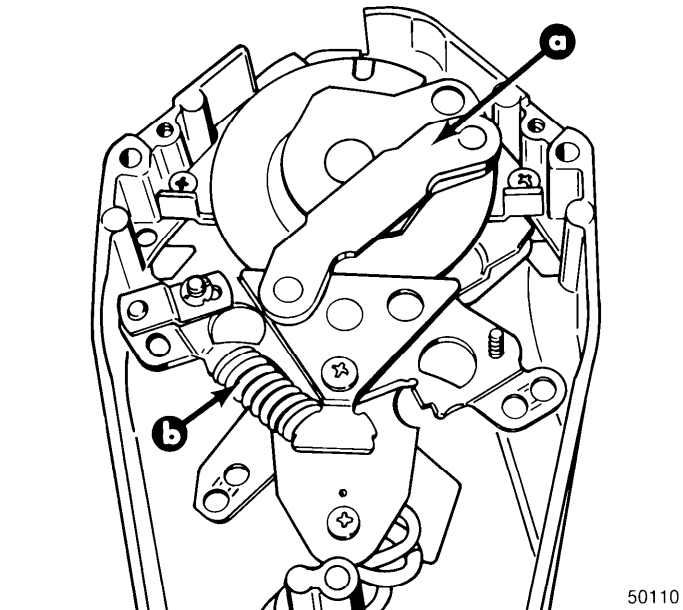


- a - Control Handle
b - Throttle Link
c - Spring

⚠CAUTION

Spring is under pressure and may eject suddenly.

4. Reinstall back cover with 2 screws. Torque screws to 60 lb. in. (7 N.m).

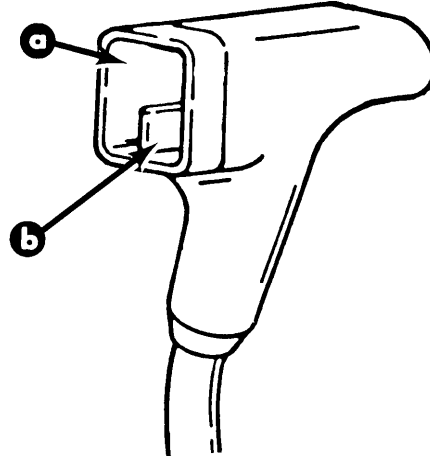


- a - Throttle Link
b - Spring

Control Handle

Repositioning Control Handle Trim Switch for port control installation.

1. Pry bezel from handle, pull trim switch out, turn switch 180° and install back into handle.

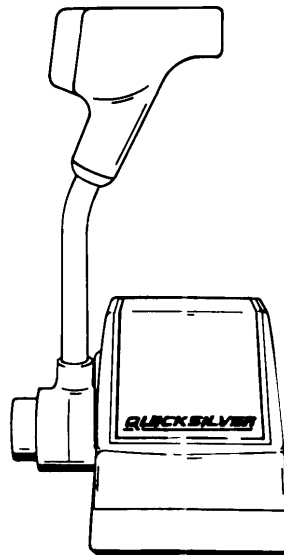


24962

- a - Bezel
b - Trim Switch

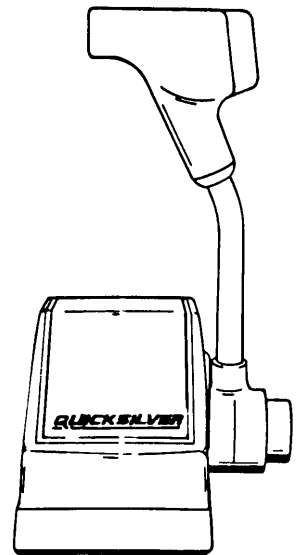
2. Discard bezel removed and install new bezel (from parts bag).

Starboard Control Mounting



24906

Port Control Mounting



25023

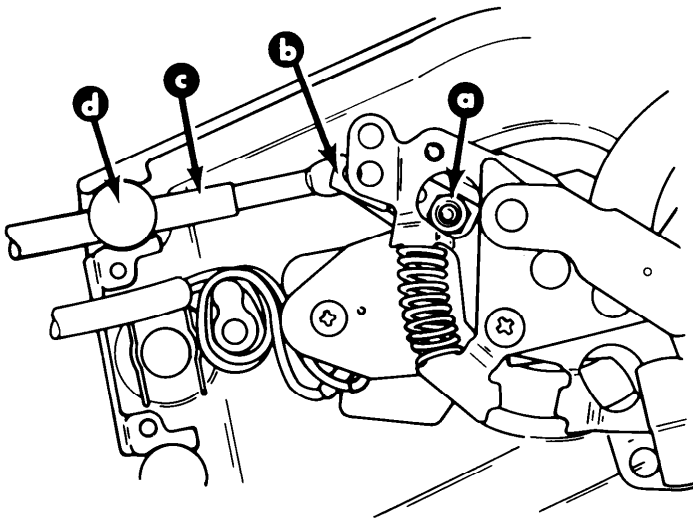
Port Side Control Module Cable Installation

(All Models except 250 hp Outboard
and Above)

⚠CAUTION

Before tightening cable fastener locknut, be sure that pin on end of cable fastener is completely thru cable end and shift/throttle lever. A pin, that is partially thru cable and lever, may cause cable fastener to bend when nut is tightened.

Shift Cable

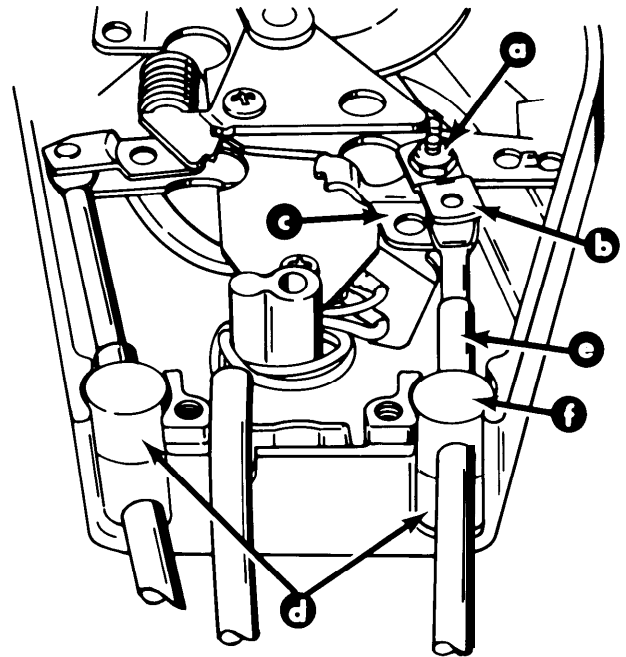


- a - Cable Fastener Locknut
- b - Cable Fastener
- c - Shift Cable
- d - Cable Anchor Barrel

Torque shift cable fastener locknut to 20-25 lbs. in. (2.3 to 2.8 N.m.)

50031

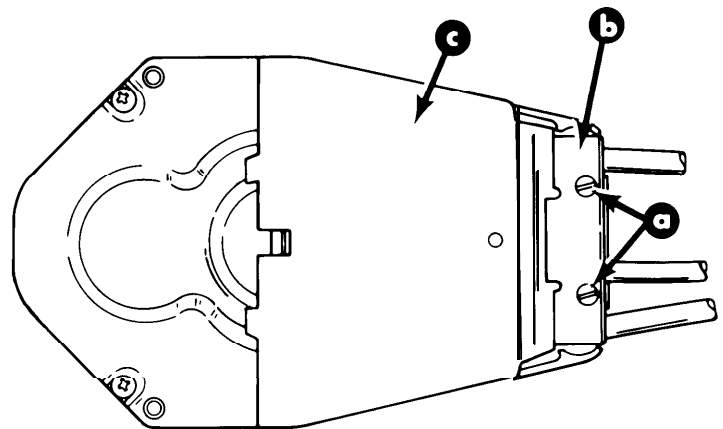
Throttle Cable



50030

- a - Cable Fastener Locknut
- b - Cable Fastener
- c - Throttle Lever
- d - Spacer (From Parts Bag)
- e - Throttle Cable
- f - Cable Anchor Barrel

Torque throttle cable fastener locknut to 20 to 25 lbs. in. (2.3 to 2.8 N.m.)



50030

- a - Screws
- b - Cable Retainer
- c - Access Cover

Position access cover and cable retainer onto back side of control and secure both to control with 2 screws. **Torque access cover and cable retainer screws to 60 lbs. in. (7 N.m.)**

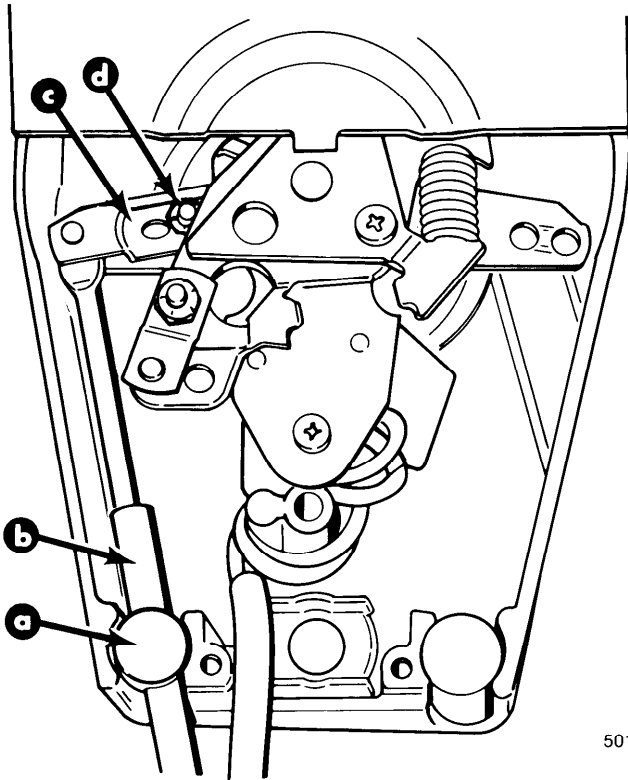
Port Side Control Module Cable Installation (250 hp Outboard and Above)

The control cables in the starboard side module are installed differently than those in the port side module, therefore, the back cover of each control has been stamped "PORT" or "STBD."

⚠CAUTION

Before tightening cable fastener locknut, be sure that pin on end of cable fastener is completely thru cable end and shift/throttle lever. A pin, that is partially thru cable and lever, may cause fastener to bend when locknut is tightened.

Shift Cable



- a - Shift Anchor Barrel
- b - Shift Cable
- c - Cable Fastener
- d - Cable Fastener Locknut

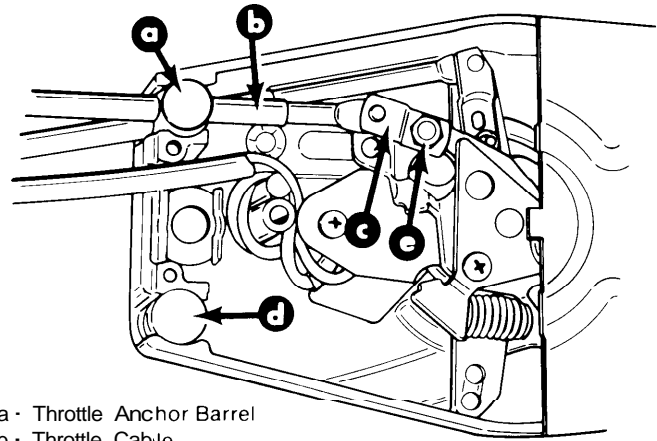
IMPORTANT: Cable fastener (b) must be relocated to position as shown.

⚠CAUTION

Before tightening cable fastener locknut, be sure that pin (on end of cable fastener) is completely thru cable end and shift lever. A pin, which is partially thru cable and shift lever, may cause fastener to bend when locknut is tightened.

Torque shift cable fastener locknut to 20 to 25 lb. in. (2.3 to 2.8 N.m.).

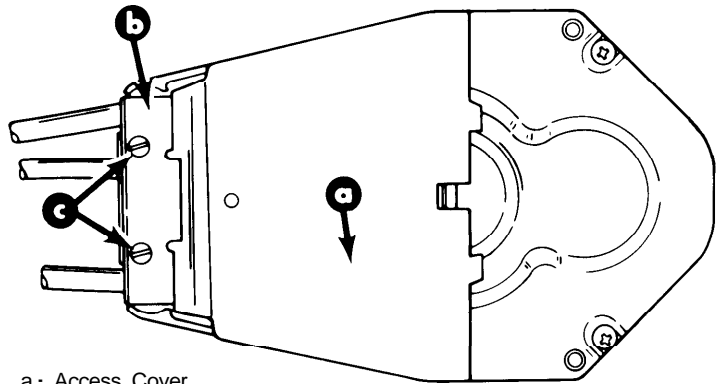
Throttle Cable



- a - Throttle Anchor Barrel
- b - Throttle Cable
- c - Cable Fastener
- d - Spacers (From Parts Bag)
- e - Cable Fastener Locknut

50092

Torque throttle cable fastener locknut to 20 to 25 lbs. in. (2.3 to 2.8 N.m.)

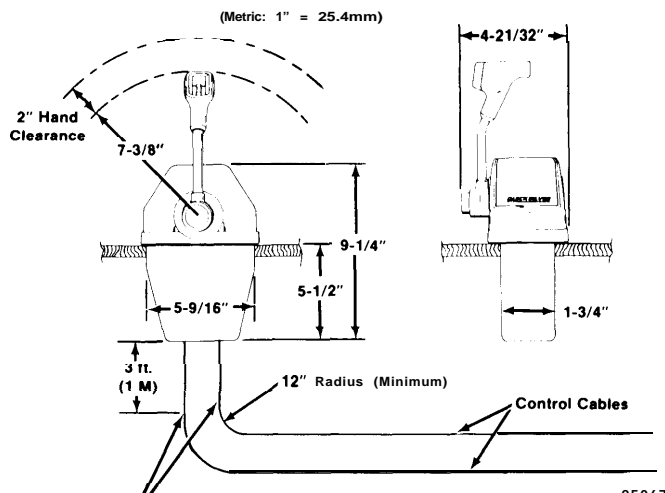


- a - Access Cover
- b - Cable Retainer
- c - Screws

50030

Position access cover and cable retainer onto back side of control and secure both to control with 2 screws. Torque access cover and cable retainer screws to 60 lbs. in. (7 N.m.)

Required Mounting Clearance



IMPORTANT: The control cables should extend straight downward for at least 3 ft. (1m) before bending, and cable bends should have at least a 12" (30.4cm) radius. This will prevent binding of cables.

25067

Locating and Drilling Mounting Area

⚠ CAUTION

Area directly under control must be free of obstructions (bulkhead, braces, etc.). Cables always must protrude from rear of control, extending straight-down and parallel to each other. Radius (at point where cables are routed toward stern of boat) must not be less than 12" (30.5 cm). This will prevent placing a load or bind on control cables that would result in hard shifting or binding throttle action.

1. Locate area where control will be mounted in boat. Be sure to allow sufficient clearance for control handle when in full forward and full reverse position.
2. Place Template (provided on last page) over area where control is to be mounted.
3. Cut and drill mounting area as indicated on template.

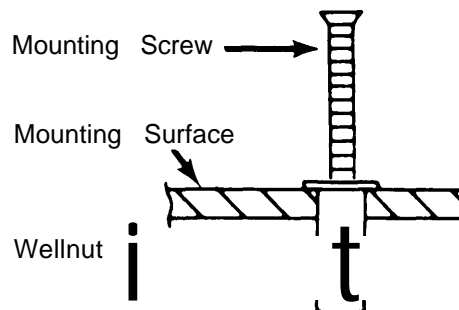
Remote Control Mounting

⚠ CAUTION

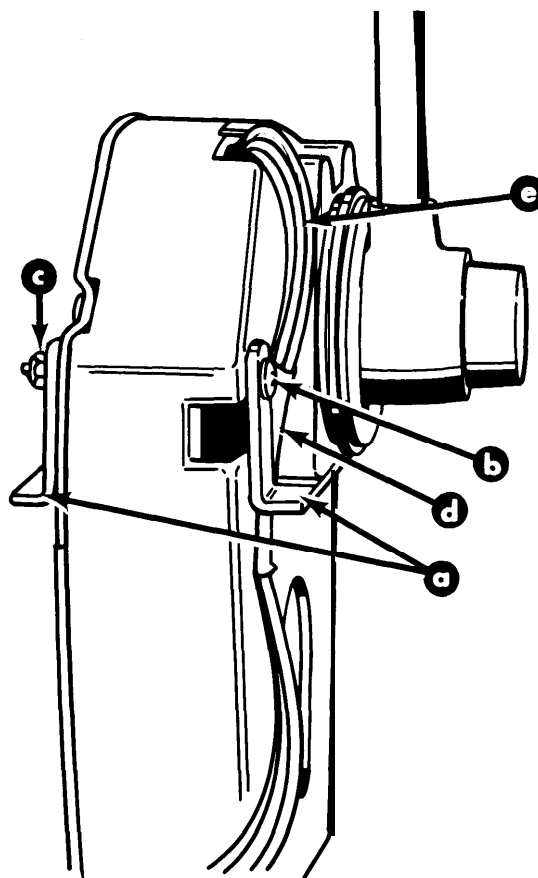
This trim control can be connected only to Power Trims that are equipped with a 2-solenoid trim pump. If Power Trim is equipped with only one solenoid, a Trim Solenoid Kit must be purchased and installed on Power Trim pump.

1. Insert wellnut fasteners into drilled holes with flange against the outer surface.

NOTE: It may be helpful to thread a mounting screw into fastener when inserting fastener into drilled hole.



2. Install mounting brackets on remote control with two 2-1/4" (57mm) long screws and locknuts, as shown.



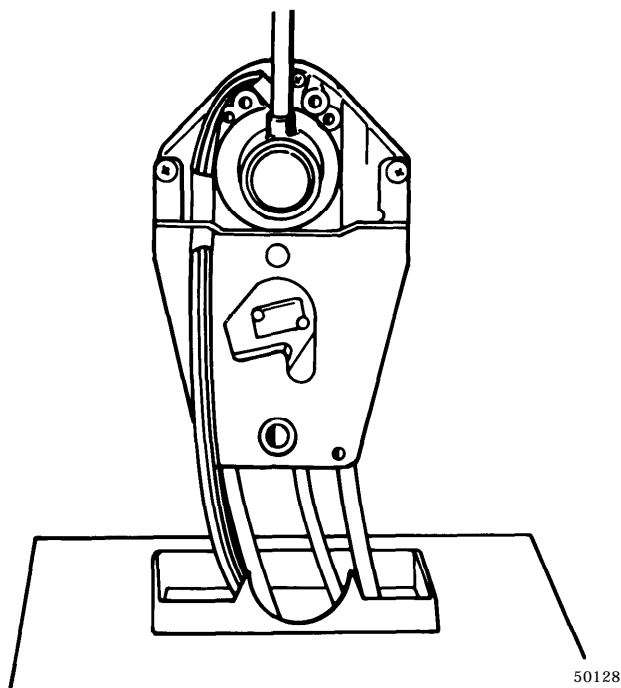
50129

3. Make sure wiring harness and protective sleeve are installed as shown.

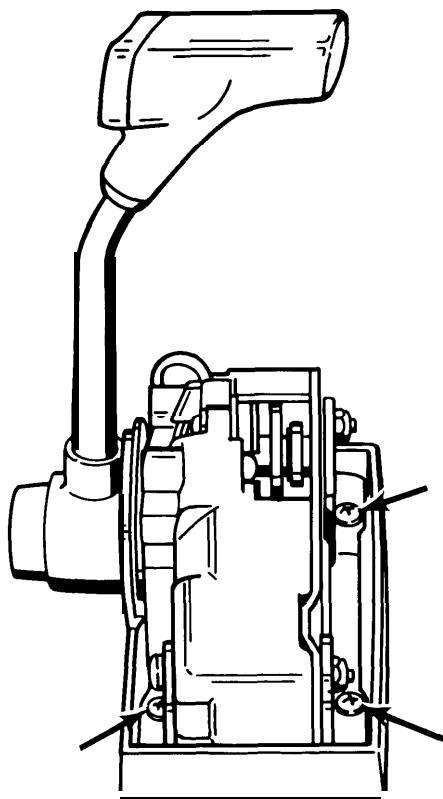
⚠ CAUTION

Protective sleeve must be positioned over the wires and behind the mounting bracket, as shown, to prevent wires from being pinched or cut by the mounting bracket.

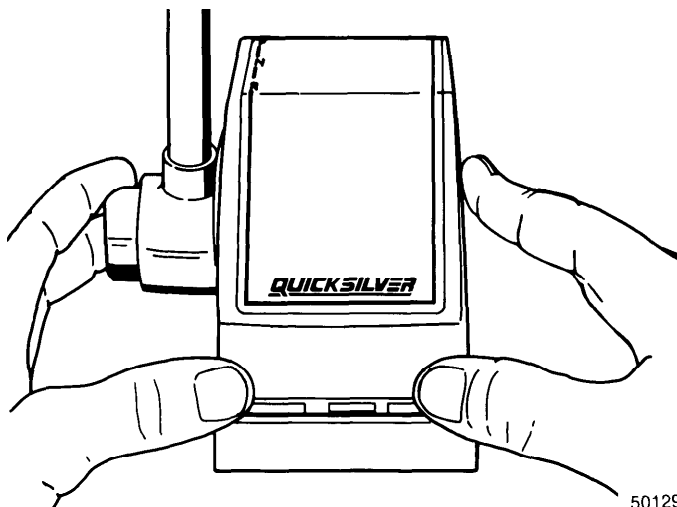
4. Route control cables and wiring harnesses thru mounting base, then place remote control into position on mounting base.



5. Secure remote control to mounting surface with four 1-1/2" (38mm) long screws, tighten securely.



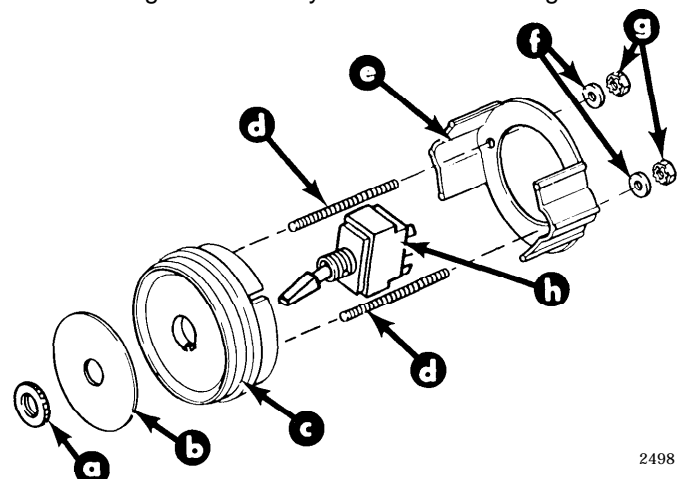
6. Install cover on remote control by snapping into place.



Trailer Switch Installation

IMPORTANT: Route switch to desired location to ensure adequate wire length and clearance behind mounting area.

1. Cut a 2-1/8 in. (54mm) diameter hole at desired location.
2. Thread studs into bezel, tighten securely, but do not overtighten.
3. Place switch thru mounting clamp opening and thru mounting area (from back).
4. Install switch (lever pointing downward) thru mounting bezel and faceplate and secure with special nut. Tighten securely.
5. Insert mounting bezel into mounting opening and install mounting clamp, secure with washers and nuts. Tighten securely but do not overtighten.

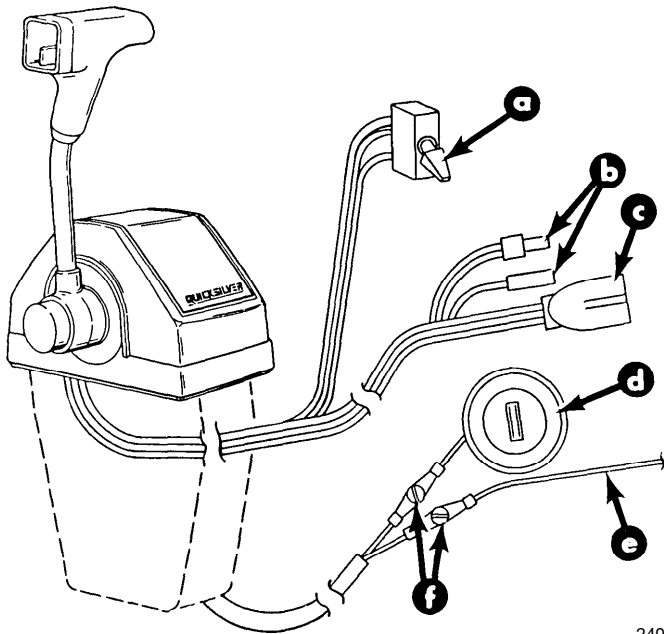


- a - Special Nut
- b - Face Plate
- c - Mounting Bezel
- d - Studs
- e - Mounting Clamp
- f - Washers
- g - Nuts
- h - Trailer Switch

Electrical Connections

⚠ WARNING

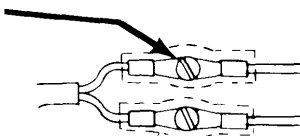
Failure to connect neutral start safety switch leads properly could allow engine to start while in gear. If engine starts while in gear, immediate boat movement and a hazard to unseated occupants of boat or persons and property outside of boat may result.



24982

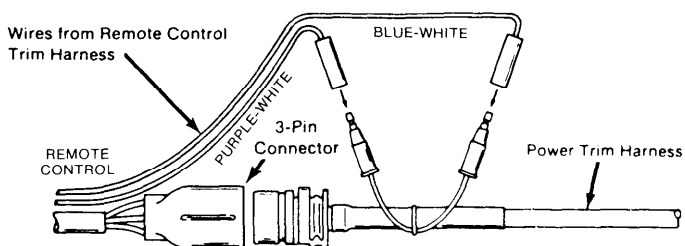
- a - Trailer Switch
- b - Trim Limit Leads
- c - 3-Pin Connector to Power Trim Harness
- d - Ignition Key Switch
- e - Neutral Start Lead from Engine Wiring Harness
- f - Neutral Start Safety Switch Connections

Connect Wires Together with Screws and Hex Nuts, Apply Liquid Neoprene to Connections and Slide Rubber Sleeve over Each Connection

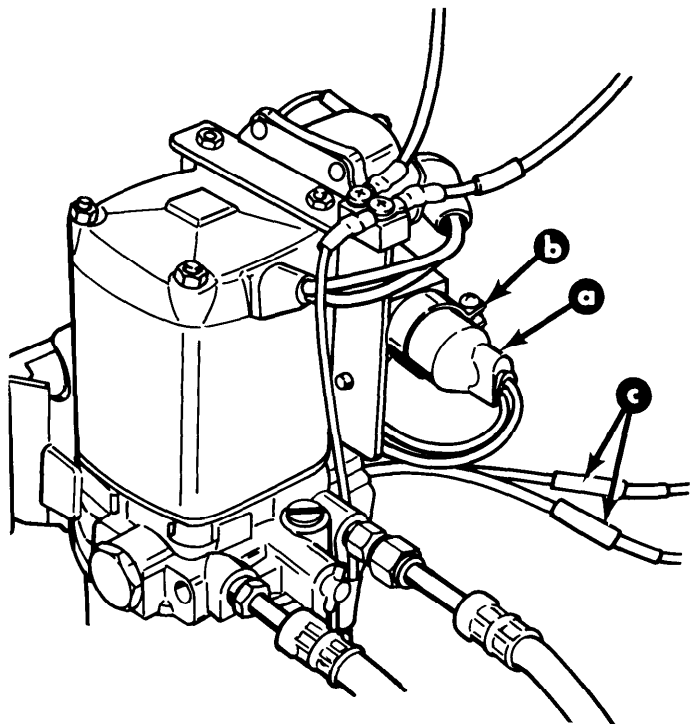


IMPORTANT: When routing neutral start safety switch harness, secure each harness every 18" (45.7cm). Be sure that wiring does not rub or get pinched and that it does not come in contact with water.

Outboard Models with Trim Pump Mounted Outside the Boat (Between Engine Transom Brackets)

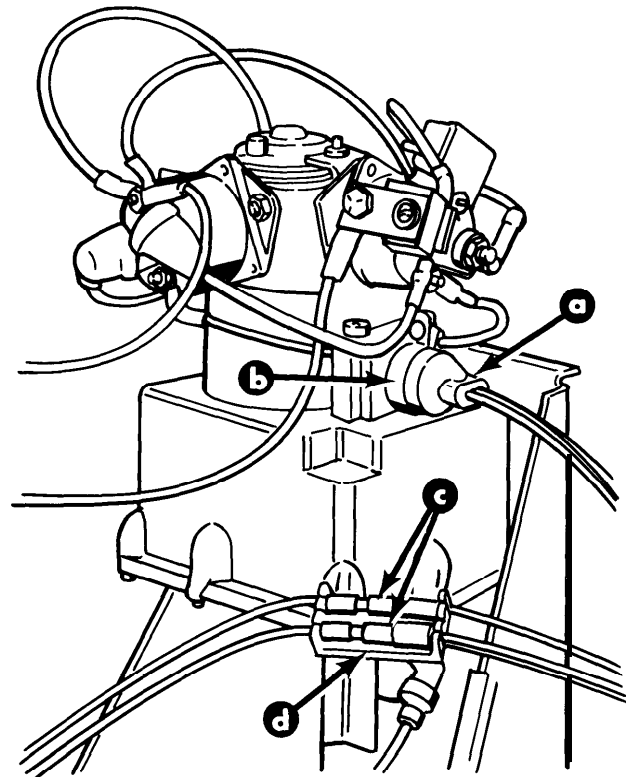


Outboard Models with Trim Pump Mounted in Boat



50128

MerCruiser Trim Pump

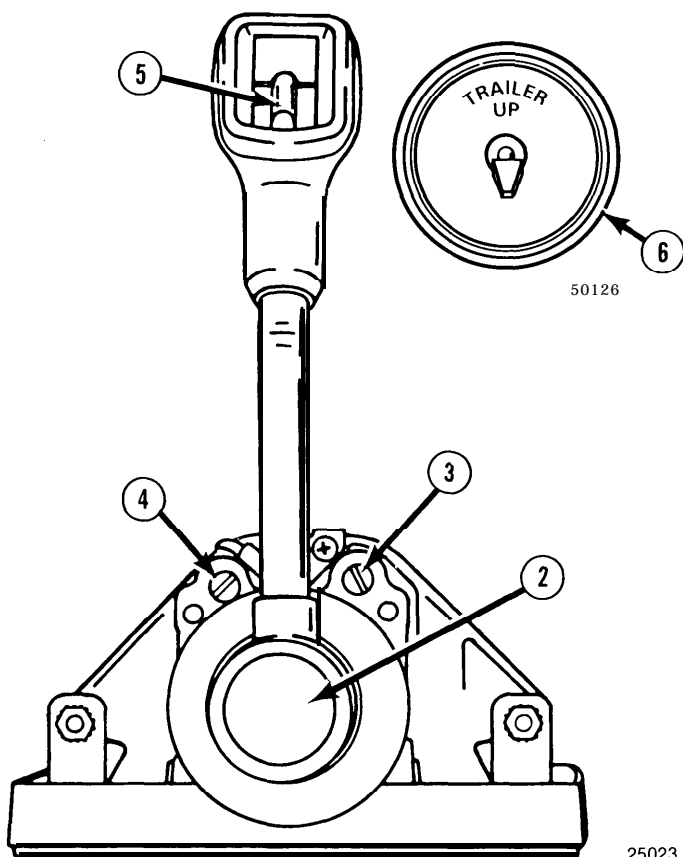


50128

- a - 3-Pin Connector (from Remote Control)
- b - Hose Clamp or Plastic Strap
- c - Bullet Connectors (Trim Limit Switch)
- d - Plastic Retainer

Operation

1. **Control Handle:** Features full gear shift and throttle. Shift into gear with a firm, quick motion. Do not ease gears into or out of engagement. Approximately the first 40 degrees of control handle travel (from neutral position) shifts the gears, the remaining travel of the control handle advances throttle.
2. **Throttle Only Button:** Allows engine throttle advancement without shifting engine. This is done by disengaging the shift mechanism from the control handle. Throttle-only button can be depressed only when control handle is in neutral, and should be used only to assist in starting the engine. Refer to Operation and Maintenance Manual for correct throttle setting for starting the engine.
3. **Control Handle Detent Tension Adjustment Screw:** Increases or decreases the tension on the control handle detent. Turn detent screw in (clockwise) to increase tension on detent.
4. **Control Handle Friction Adjustment Screw:** Adjust control handle tension by turning adjustment screw in (clockwise) to increase tension; turn screw out (counterclockwise) to decrease tension. Adjust to tension desired.
5. **Trim Switch:** Push toward "UP" to trim power package out or push toward "DOWN" to trim in.
6. **Trailer Switch:** Used to raise power package to desired height for trailering, launching, beaching or shallow water operation.



TRIMMING OPERATION

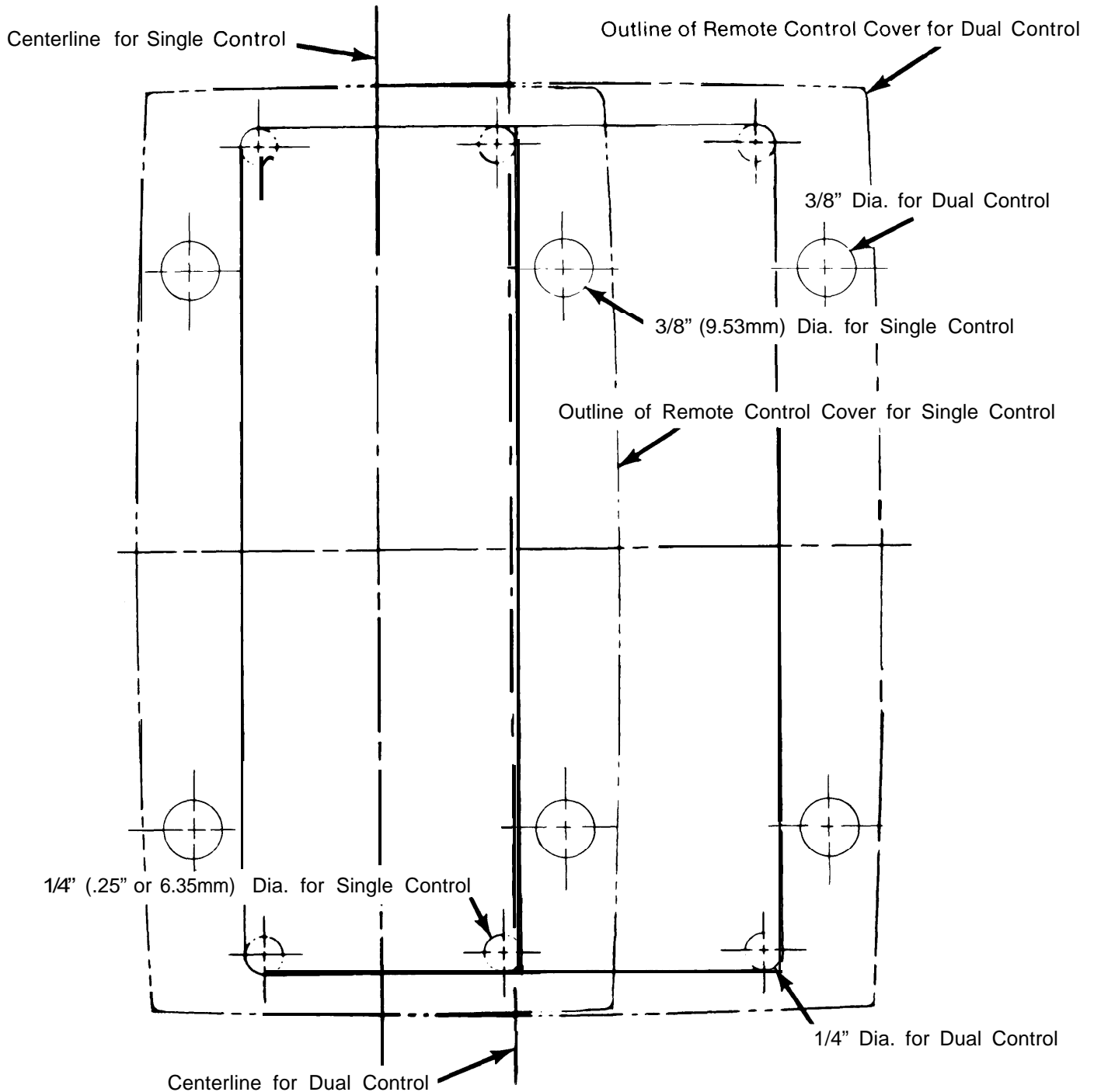
NOTE: The control handle is equipped with a trim switch (used to trim power package "up" and "down" while engine is under power) and a separate trailer switch (used to trim engine up for shallow water operation, beaching, launching and trailering).

⚠ CAUTION

Check that water level is above water intake ports. (Should water level fall below water intake ports, damage from overheating or water pump impeller damage could occur.)

NOTE: If the trim switch remains pushed toward the "DOWN" position, after unit reaches its end of travel, an overload cut-out switch will open and pump motor will stop. To prevent cut-out switch from opening, it is recommended that trim switch be released as soon as unit reaches end of travel. If cut-out switch should open, do not depress switch or button for approximately one minute. After this period of time, cut-out switch will close (reset itself) and pump again may be operated.

Template for Dual and Single Console Controls



⚠ CAUTION

Area (located directly under mounting panel) must be free from obstructions and must allow cables to form a gradual bend when routed toward stern of boat.