



# ATTACHMENTS/CONTROL LINKAGE

## Section 7A - Throttle/Shift Linkage

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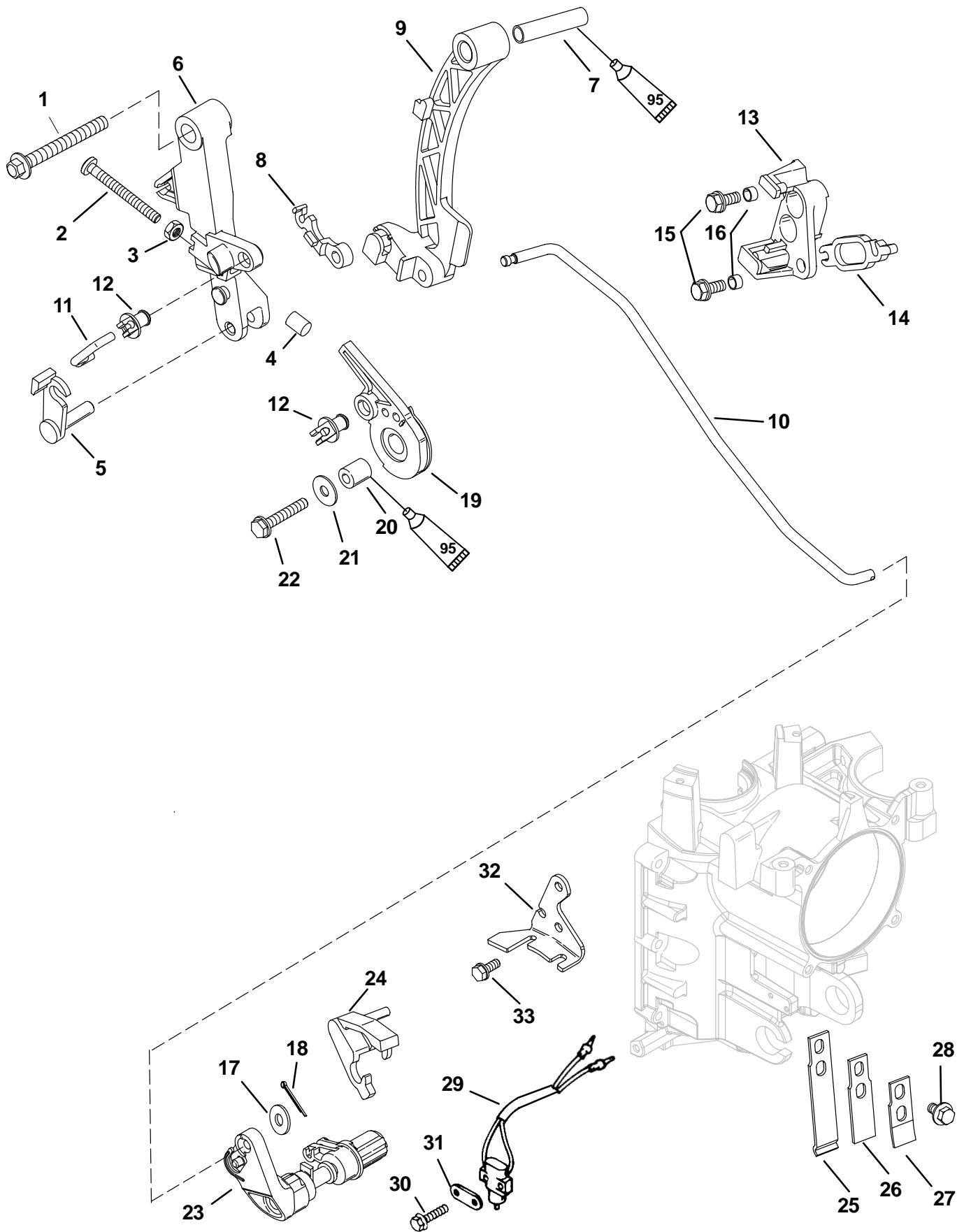
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# LINKAGE

 2-4-C Marine Lubricant with Teflon



**LINKAGE**

REF. NO.	QTY.	DESCRIPTION	TORQUE		
			lb. in.	lb. ft.	N-m
1	1	SCREW (M8 x 70)	100		11.5
2	1	SCREW (M6 x 55)			
3	1	NUT <b>ELECTRIC NON HANDLE</b>			
4	1	CAP			
5	1	RETAINER			
6	1	THROTTLE LEVER			
7	1	BUSHING			
8	1	RETAINER			
9	1	SHIFT LEVER			
10	1	SHIFT ROD			
11	1	THROTTLE ROD			
12	2	SWIVEL BUSHING			
13	1	BRACKET			
14	1	LATCH			
15	2	SCREW (M6 x 16)	105		12
16	2	SLEEVE			
17	1	WASHER			
18	1	COTTER PIN			
19	1	THROTTLE CAM			
20	1	BUSHING			
21	1	WASHER			
22	1	SCREW (M6 x 35)	85		9.5
23	1	HORIZONTAL SHIFT SHAFT			
24	1	RETAINER			
25	1	SPRING			
26	2	SPRING			
27	1	PLATE			
28	2	SCREW (M5 x 16)	75		8.5
29	1	SWITCH <b>ELECTRIC HANDLE MODELS</b>			
30	2	SCREW (M3 x 20)	20		2.5
31	1	PLATE-Switch			
32	1	BRACKET-Throttle Cable <b>HANDLE MODELS</b>			
33	1	SCREW (M6 x 16)	75		8.5

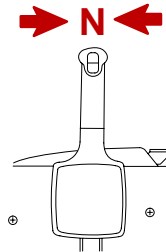


## Shift Cable Installation

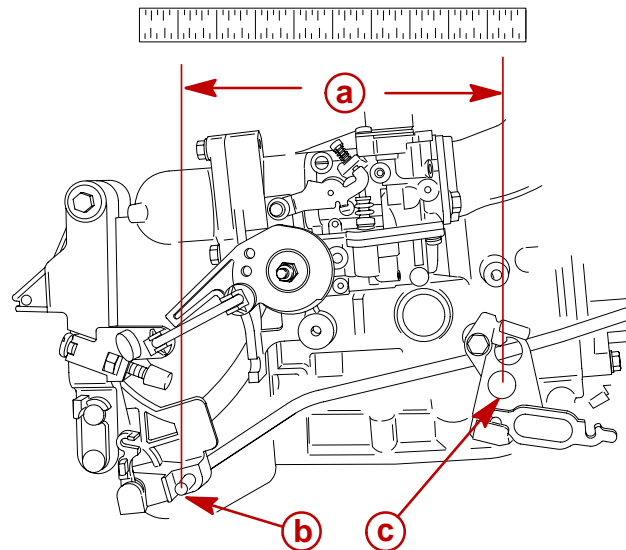
Install cables into the remote control following the instructions provided with the remote control.

**NOTE:** Install the shift cable to the engine first. The shift cable is the first cable to move when the remote control handle is moved out of neutral.

1. Position remote control into neutral.

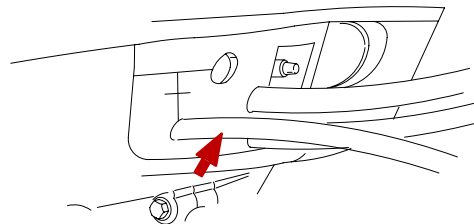


2. Shift outboard into neutral.
3. Measure the distance (a) between pin and center of lower hole.



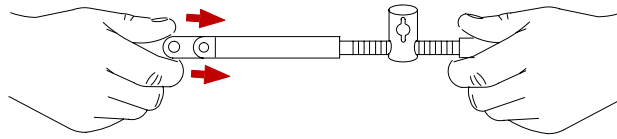
- a** - Distance Between Pin And Center of Lower Hole
- b** - Pin
- c** - Lower Hole

4. Fit shift cable through rubber grommet.

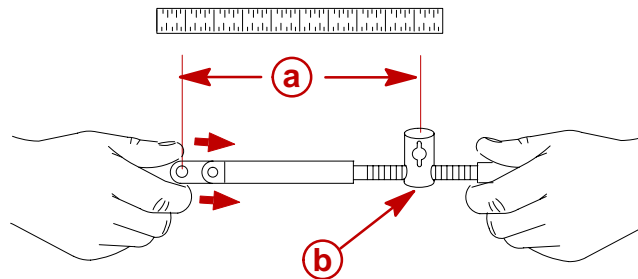




5. Push in on the cable end until resistance is felt.

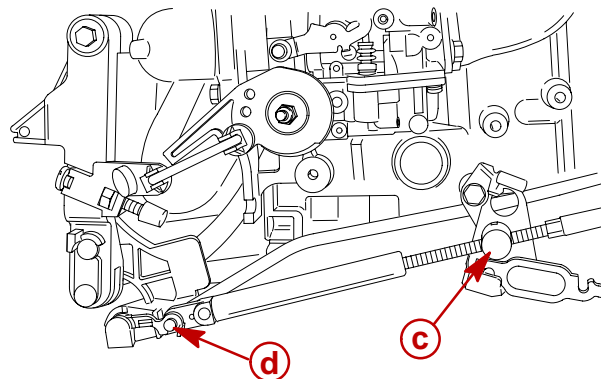


6. While pushing in on the cable end, adjust the cable barrel to attain the measured distance (a) taken in Step 3.



- a** - Adjust Cable Barrel To Attain The Measured Distance Taken In Step 3  
**b** - Cable Barrel

7. Place cable barrel into the barrel holder. Fasten cable with retainer.



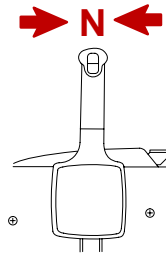
- c** - Place Barrel Into Barrel Holder  
**d** - Retainer

8. Check shift cable adjustments as follows:
- Shift remote control into forward. The propeller shaft should be locked in gear. If not, adjust the barrel closer to the cable end.
  - Shift remote control into neutral. The propeller shaft should turn freely without drag. If not, adjust the barrel away from the cable end. Repeat steps a and b.
  - Shift remote control into reverse while turning propeller. The propeller shaft should be locked in gear. If not, adjust the barrel away from the cable end. Repeat steps a through c.
  - Shift remote control back to neutral. The propeller shaft should turn freely without drag. If not, adjust the barrel closer to the cable end. Repeat steps a through d.

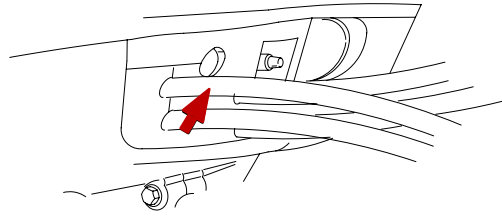


# Throttle Cable Installation

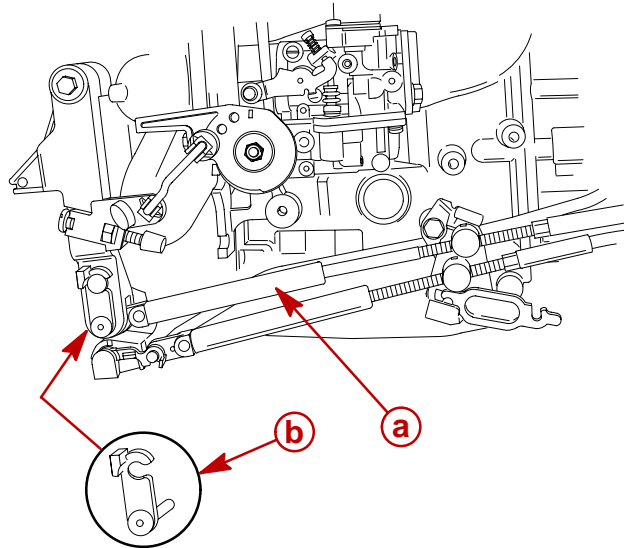
1. Position remote control into neutral.



2. Fit throttle cable through rubber grommet.



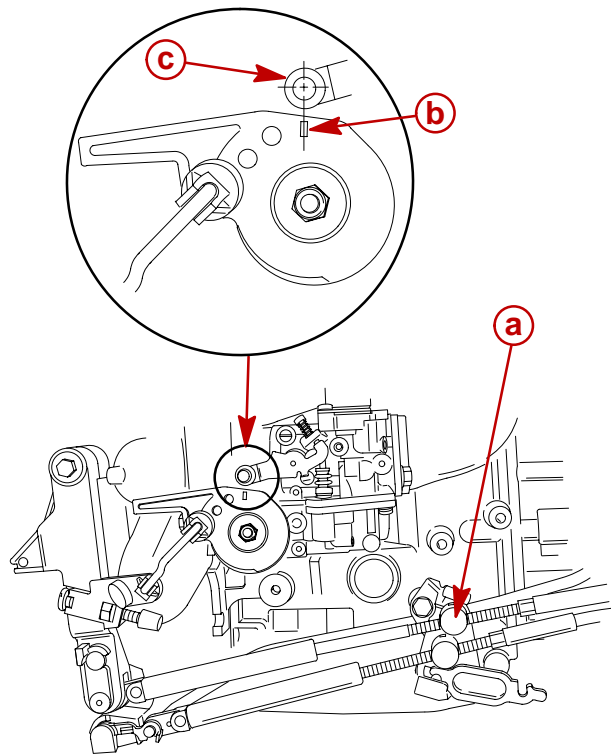
3. Install throttle cable (a) with retainer pin (b). Lock retainer pin in place.



- a** - Throttle Cable
- b** - Retainer Pin



4. Adjust cable barrel until the alignment mark on the cam lines up with center of the roller.



- a** - Cable Barrel
- b** - Alignment Mark
- c** - Roller

5. Fasten control cables with the cable latch.

