

SUZUKI® INSTALLATION INSTRUCTIONS

Description: **REMOTE CONTROL PARTS ASSY**

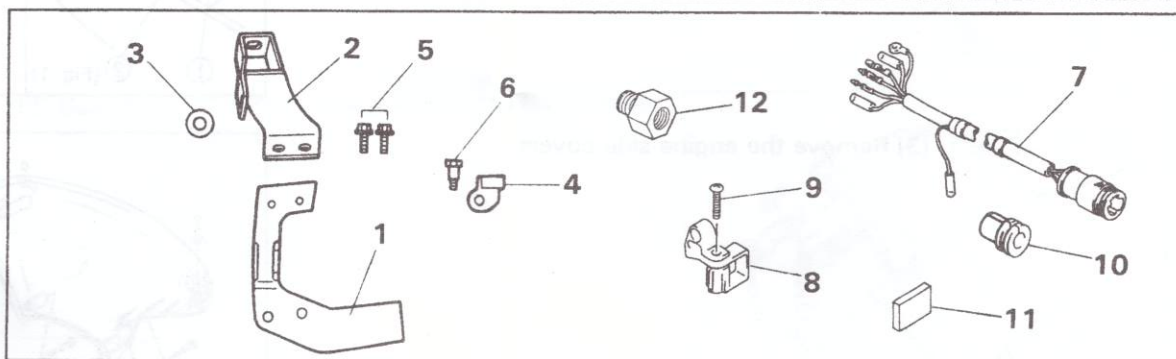
Part Number: 67130-93E20-OEP

Applications: DF9.9/15 serial no. 652501 and later

Installation Time: 0.80 hr.

Contents

Ref.	Part Number	Description	QTY
1.	67340-93E10	Holder, remo-con cable	1
2.	43755-93E00-Z11	Attachment, steering bracket	1
3.	09308-08013	Grommet, throttle cable	1
4.	67467-93E00	Connector, remo-con cable	1
5.	09116-06106	Bolt, holder	2
6.	09111-06064	Bolt, clutch control lever	1
7.	36630-89E02	Harness, remo-con	1
8.	33816-96300	Clamp, steering	1
9.	03242-06253	Screw, clamp	1
10.	36612-92D00	Grommet, wire harness	1
11.	63625-94300	Grommet	1
12.	41141-89E00	Attachment, steering cable	1

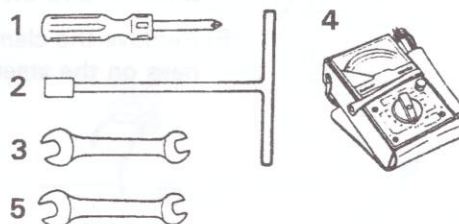


Required Remote Control Box

Part No.	Part Name	Remark
67200-89E12-OED	Remote control box assy	Push-to-open throttle action type

Tools Required

Ref.	Tools Description
1.	#2 Phillips screwdriver
2.	10mm Box wrench
3.	10mm Spanner
4.	Suzuki pocket tester (No. 09900-25002)
5.	32 mm Spanner



Important

⚠ WARNING
⚠ CAUTION
NOTE

Please read this manual and follow its instructions carefully. To emphasize special information, the symbol **⚠** and the words **WARNING**, **CAUTION** and **NOTE** have special meanings. Pay special attention to the messages highlighted by these signal words.

NOTE:

NOTE indicates special information to make maintenance easier or instructions clearer.

⚠ WARNING

⚠ WARNING indicates a potential hazard that could result in death or injury.

⚠ CAUTION

⚠ CAUTION indicates a potential hazard that could result in motor damage.

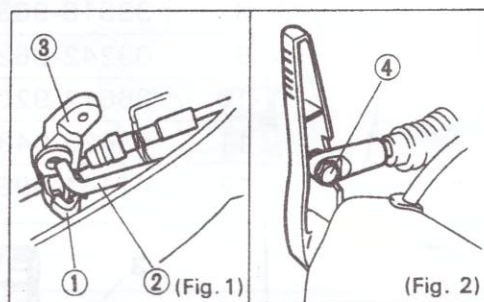
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⚠ WARNING

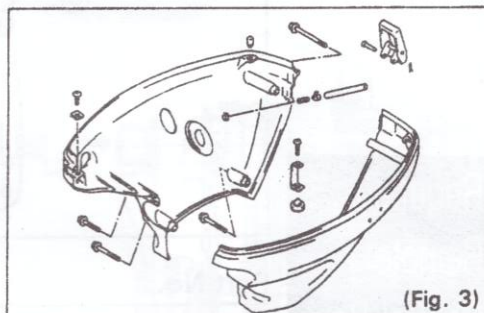
- Only an authorized Suzuki outboard motor dealer or a qualified service mechanic should perform installation of this part.
- Before performing the following procedures, be sure that the throttle/shift cables are installed in the remote control box according to the remote control manufacturer's instructions.
- Use of an outboard motor with a remote control should not be attempted unless an emergency stop switch is mounted so as to permit attachment of the stop switch lanyard to the boat operator.
- All Suzuki NA12S remote control boxes are equipped with an emergency stop switch feature. For other applications, an emergency stop switch and mounting hardware are available.

Tiller Handle Removal

- (1) Unlock the connector ①, then detach the shaft ② from the clutch lod arm ③.
- (2) Remove the bolt ④.

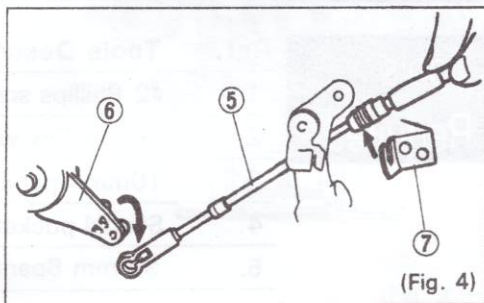


- (3) Remove the engine side covers.

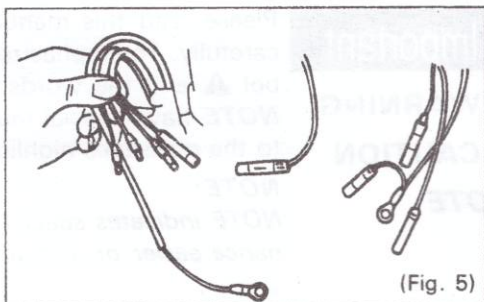


- (4) Detach the throttle cable ⑤ from the throttle drum ⑥ and the cable holder ⑦.

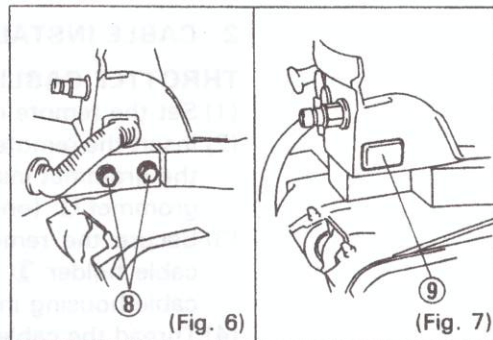
- (5) Remove the clamp securing the battery wire harness on the steering bracket.



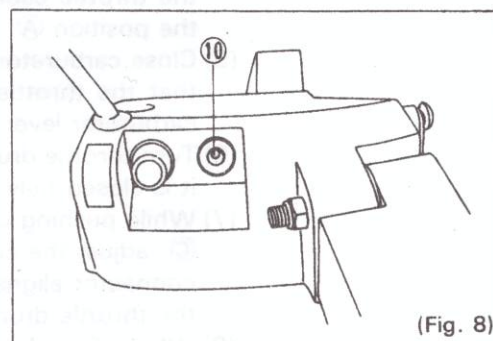
- (6) Disconnect Br, W/R, P, Bl/R and B wires.
(For Manual start model, disconnect P, Bl/R and B wires.)



- (7) Remove the two bolts ⑧, and remove the steering bracket with the tiller handle.
- (8) Install the grommet ⑨.



- (9) Remove the oil pressure indicator lamp ⑩ from the steering bracket.



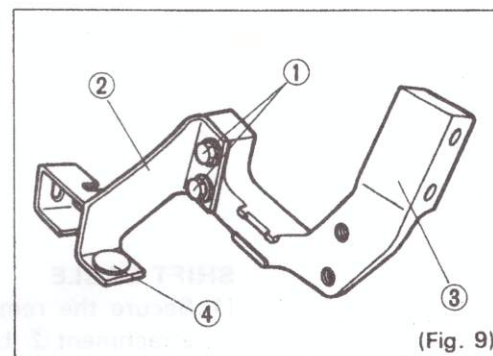
Installation/ Adjustments

1. HOLDER & ATTACHMENT INSTALLATION

- (1) Apply thread lock "1342" to the two bolts ①, then install and properly torque the two bolts to secure the holder ② and attachment ③.

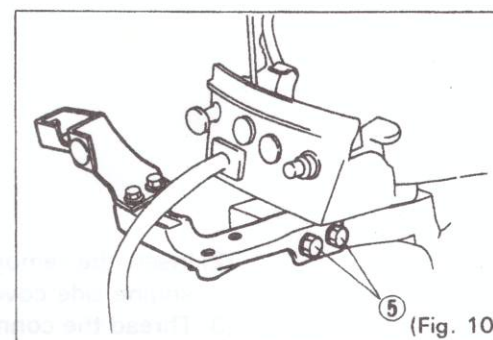
Tightening torque: 10 N·m, 1.0 kg-m, 7.0 lb-ft

- (2) Install the grommet ④ on the attachment.



- (3) Apply thread lock "1342" to the two bolts ⑤ (original ones), then install and properly torque the two bolts to secure the holder.

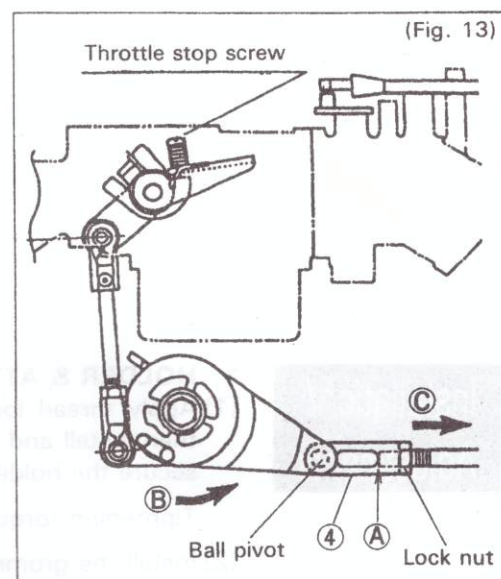
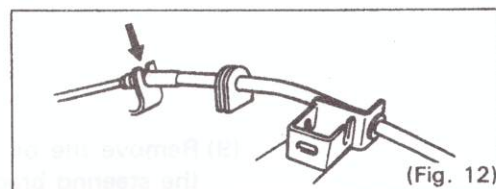
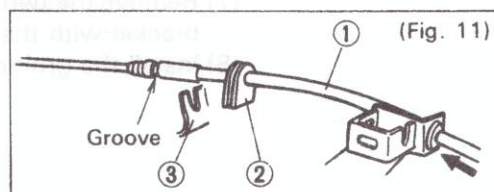
Tightening torque: 23 N·m, 2.3 kg-m, 16.5 lb-ft



2. CABLE INSTALLATION/ADJUSTMENT

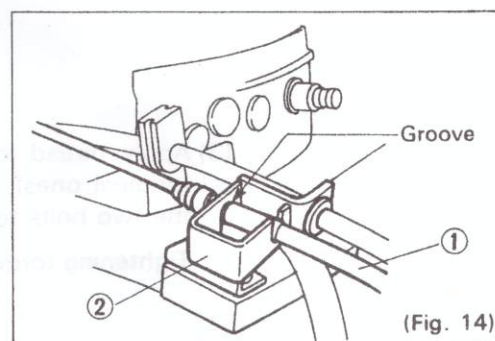
THROTTLE CABLE

- (1) Set the remote control lever to Neutral.
- (2) Insert the remote control throttle cable ① through the grommet installed on the attachment and the grommet ② (original one).
- (3) Secure the remote control throttle cable in the cable holder ③ by fitting groove on the throttle cable housing into a slot on the cable holder.
- (4) Thread the cable connector ④ (original one) onto the throttle cable until the cable end aligns with the position A.
- (5) Close carburetor throttle valve fully, making sure that the throttle stop screw no longer contacts carburetor lever.
- (6) Turn throttle drum as shown by the arrow B until it is closed fully.
- (7) While pushing cable end as shown by the arrow C, adjust the cable connector until the center of connector aligns with the center of ball pivot on the throttle drum.
- (8) When aligned, press the cable connector over the ball pivot, then tighten cable lock nut.



SHIFT CABLE

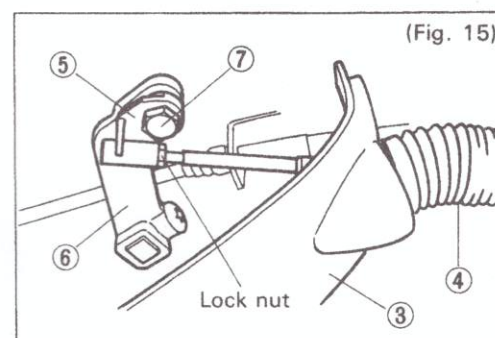
- (1) Secure the remote control shift cable ① in the attachment ② by fitting groove on the shift cable housing into a slot on the attachment.



- (2) Insert the remote control shift cable through the engine side cover ③ and the boot ④.
- (3) Thread the connector ⑤ onto the shift cable until the connector aligns with the tapped hole of the clutch rod arm ⑥, then tighten the cable lock nut.
- (4) Install the connector on the clutch rod arm by tightening the bolt ⑦ to specification.

Tightening torque:

2.5 N·m, 0.25 kg-m, 1.8 lb-ft



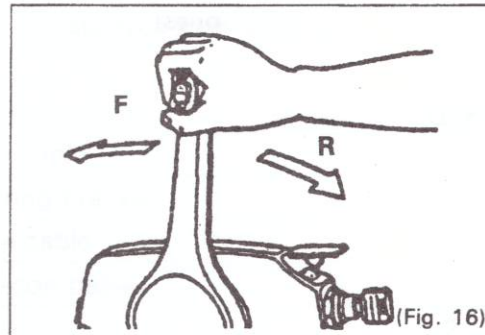
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OPERATION CHECK

Operate control lever on remote control box and verify the following actions:

SHIFT: Both forward and reverse gear must engage with the same degree of control lever travel.

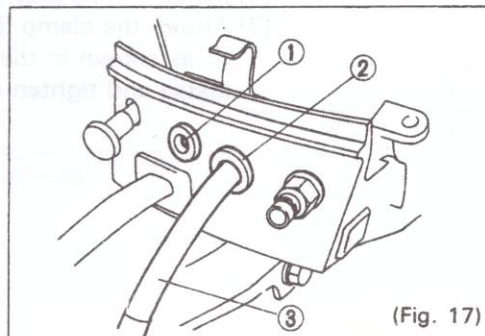
THROTTLE: The throttle must open and close fully.



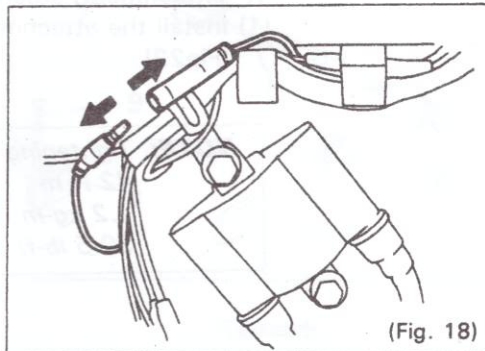
3. ELECTRICAL PARTS INSTALLATION

(1) Remove the original grommets. Install the oil pressure indicator lamp ① (original one) and the grommet ②.

(2) Insert the remo-con harness ③ through the grommet.

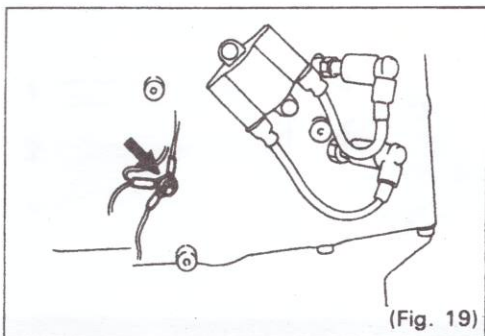


(3) Disconnect the BI wire between the CDI unit and the oil pressure switch.



(4) Connect Br, W/R, P, BI/R, Y, BI and B wires. Secure B wire terminals on the boss by tightening the bolt as illustrated.

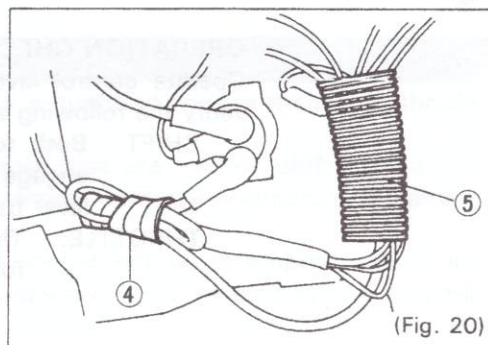
(For Manual start model, connect P, BI/R, BI and B wires.)



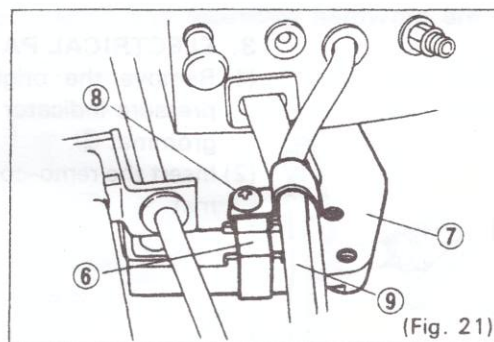
NOTE:

For the Manual start model, the buzzer in the remote control box will not sound when the oil pressure switch activates. The low oil pressure caution can be detected by the oil pressure indicator lamp and engine rev-limit.

- (5) Bundle wires by using the tube ④ and ⑤ (original ones).



- (6) Install engine side covers.
 (7) Attach the clamp ⑥ onto the holder ⑦.
 ⑨ as shown in the illustration.
 Install and tighten retaining screw ⑧.



4. Attachment, steering cable INSTALLATION

- (1) Install the attachment ⑫ to the clamp bracket.
 [Fig22]

NOTE: Tightening torque
 42 N·m
 4.2 kg-m
 30.5 lb-ft

