

Description: **Battery Charging Kit**

Installation Time: 0.5 h

Applicable Model: DF9.9B/15A/20A

Part No: 32000-89L0\*

## CONTENTS

### Rectifier & Regulator Set

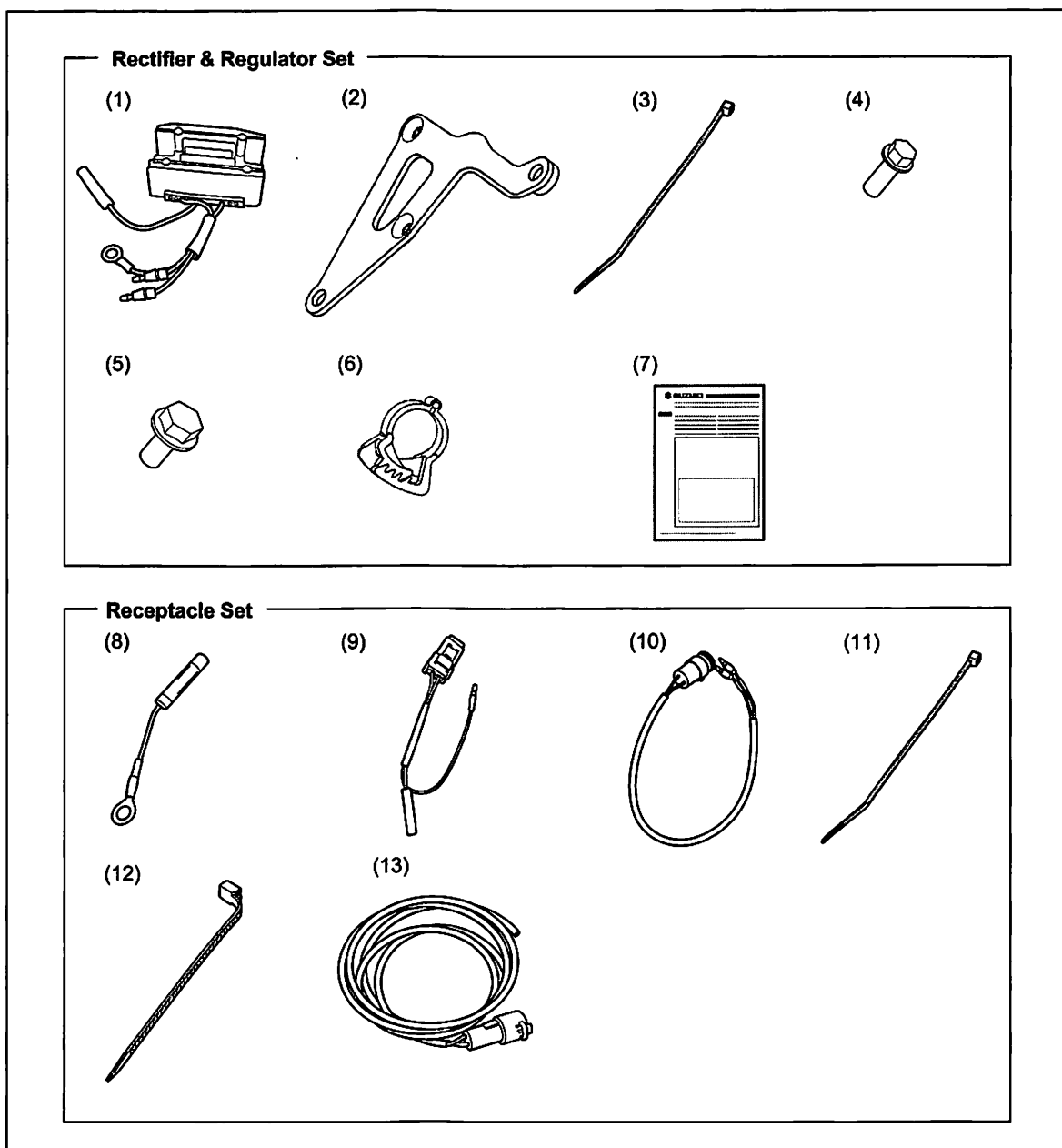
Part No: 32801-89L0\*

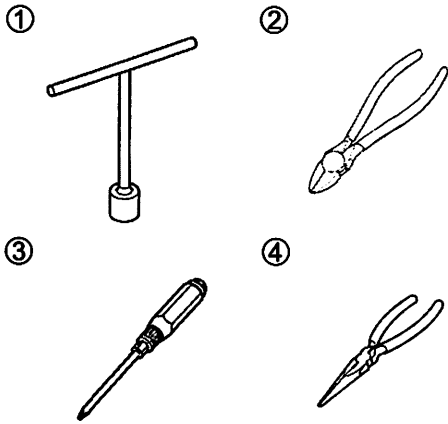
Ref.	Description	Q'ty
(1)	RECTIFIER & REGULATOR ASSY	1
(2)	BRACKET, RECTIFIER	1
(3)	CLAMP, HARNESS (145 mm)	3
(4)	BOLT, RECTIFIER & REGULATOR (M6)	2
(5)	BOLT, RECTIFIER BRACKET (M8)	2
(6)	CLAMP, HARNESS	1
(7)	INSTALLATION INSTRUCTIONS	1

### Receptacle Set

Part No: 39600-89L0\*

Ref.	Description	Q'ty
(8)	LEAD, RECEPTACLE GND	1
(9)	CASE ASSY, FUSE	1
(10)	RECEPTACLE ASSY, LIGHTING	1
(11)	CLAMP, HARNESS (145 mm)	3
(12)	CLAMP, HARNESS (125 mm)	2
(13)	PLUG, RECEPTACLE	1



**TOOL  
REQUIRED**

**Ref. Description**

Ref.	Description
①	T-wrench (8 mm, 10 mm, 12 mm)
②	Diagonal cutter
③	Phillips type screwdriver (large size)
④	Nose pliers

**IMPORTANT**
**▲WARNING / ▲CAUTION / NOTICE / NOTE**

Please read this manual and follow its instructions carefully. To emphasize special information, the symbol ▲ and the words **WARNING**, **CAUTION**, **NOTICE** and **NOTE** have special meanings. These special meanings are applied except when laws or regulations require the signal words to be used with different meanings. Pay special attention to the messages highlighted by these words.

**▲WARNING**

Indicates a potential hazard that could result in death or serious injury.

**▲CAUTION**

Indicates a potential hazard that could result in minor or moderate injury.

**NOTICE**

Indicates a potential hazard that could result in damage to the motor or boat.

**NOTE:**

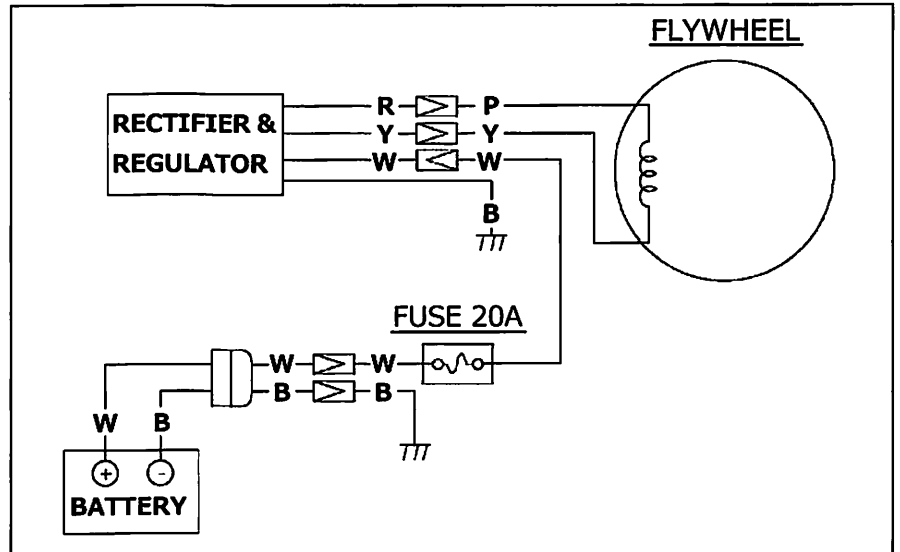
Indicates special information to make maintenance easier or instructions clearer.

**PRECAUTION  
BEFORE  
INSTALLATION**
**NOTICE**

**Improper installation of this kit may cause equipment damage.  
Only your authorized Suzuki outboard motor dealer or a qualified service mechanic should perform installation of this kit.**

- Stop the engine.
- Make sure that the engine is sufficiently cooled.
- The information in this installation instruction is intended for use only by skilled technicians who have the proper tools, equipment and training.
- These procedures should not be attempted by a customer.
- The kit must be used for the intended purpose only.
- Check the parts contained in the kit against the list in the installation instruction and confirm all parts are in the kit.
- When installing the kit, set the motor on a stable engine hanger with the engine stopped.

## CIRCUIT DIAGRAM



## INSTALLATION

1. Remove the engine cover.
2. Remove the side cover.
3. Remove the recoil starter.(except NSI cable)
4. Remove the inlet pipe bolt.
5. Move the inlet pipe.
6. Remove the LED connector.
7. Remove the front panel.

### NOTE:

Refer to the service manual.

8. Cut the parts holder clamp (A), and take out the wires (yellow and pink) of the stator coil as shown in Fig. 1.  
Fix the clamp (3) other harnesses to the parts holder as shown in Fig. 2.

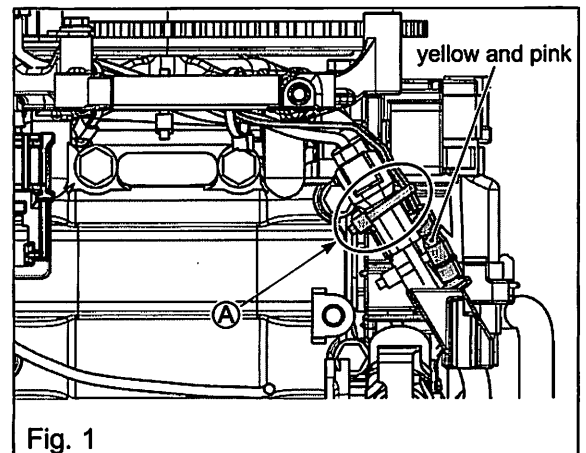


Fig. 1

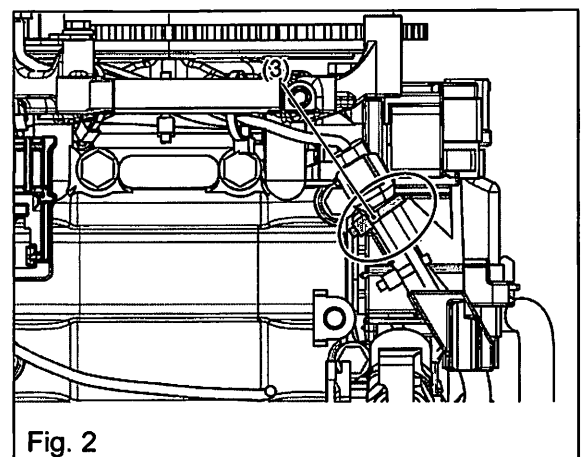


Fig. 2



9. Install the regulator (1) to bracket (2) by using two bolts (4).  
 Fix the regulator GND to the regulator (1).  
 Tighten the receptacle GND lead (8) with the bolt as shown in Fig. 3 & Fig. 4.  
 (Tightening torque: 10 N·m (1.0 kgf-m, 7.3 lb-ft))

**NOTE:**

*The caulking portion of the GND terminals must not be contacted with the regulator's fin.*

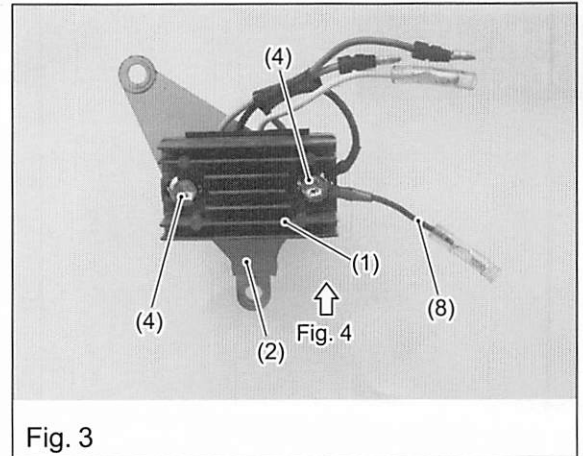


Fig. 3

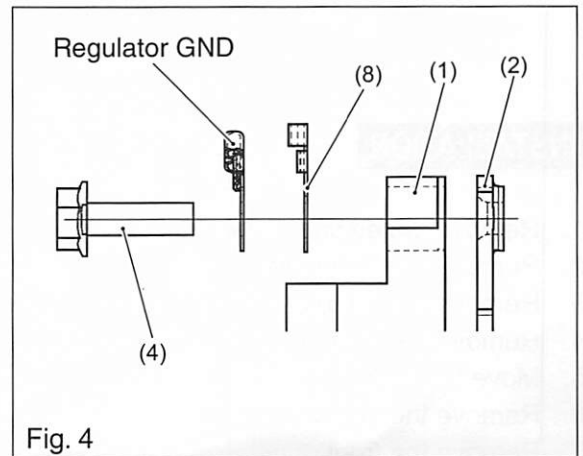


Fig. 4

10. Connect the fuse case assy (9) and the lighting receptacle assy (10) and receptacle GND lead as shown in Fig. 5.  
 (white-white and black-black)

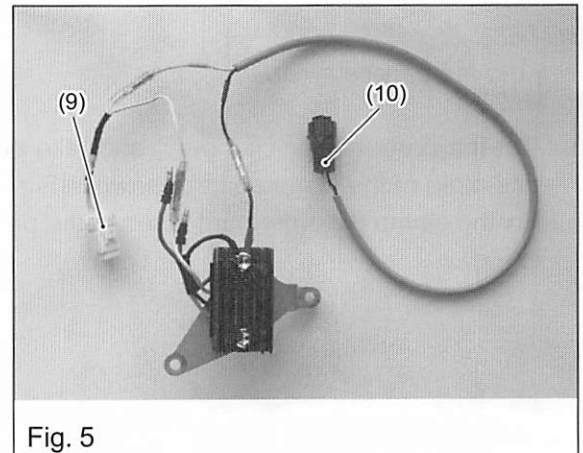


Fig. 5

11. Tighten the regulator bracket to the engine by using two bolts (5) as shown in Fig. 6.  
 (Tightening torque: 10 N·m (1.0 kgf-m, 7.2 lb-ft))

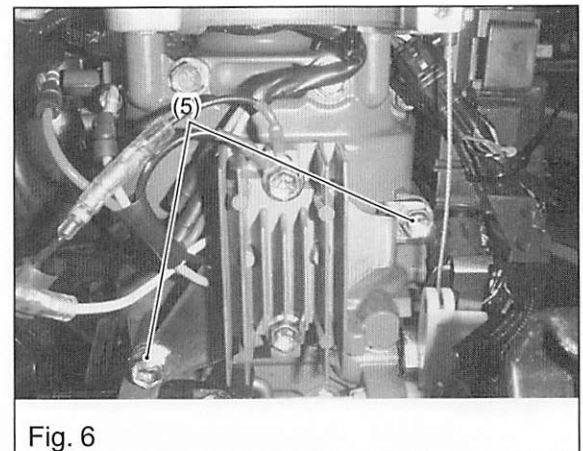
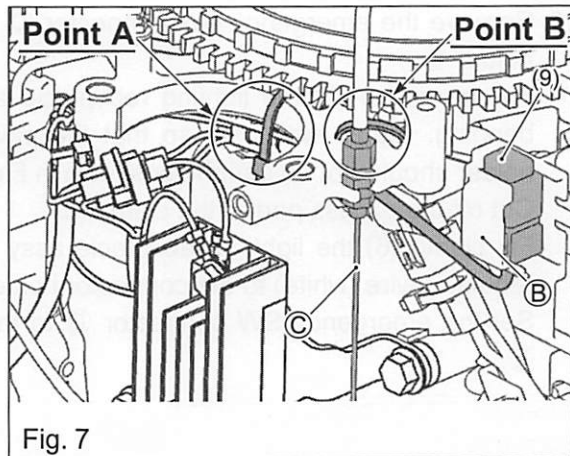


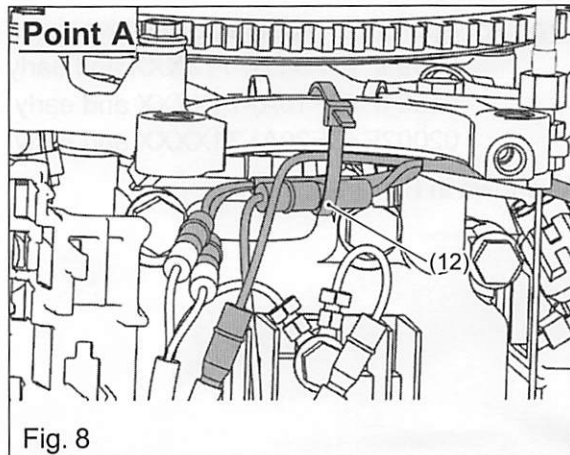
Fig. 6



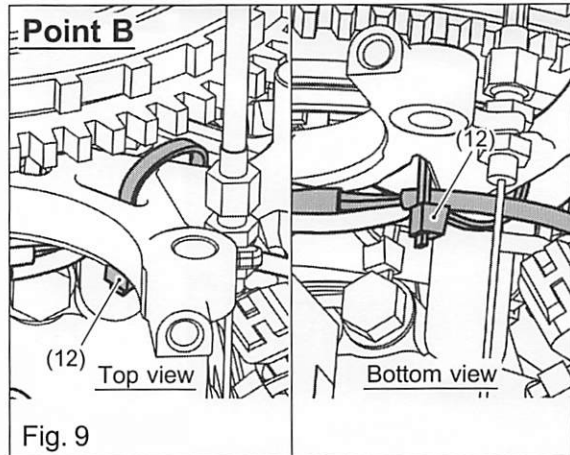
- 12. Fix the fuse case (9) on the parts holder (B).  
 Pass the fuse case lead wires through inside of the NSI cable (C).  
 Fix the stator coil wires with the regulator wires (yellow-yellow and pink-red).  
 Fix clamp (12) each one of the lead wires as shown in the Fig. 7.  
 (as shown in Point A and Point B)  
 Cut off the excess of the clamp.



**Point A:** Clamp the fuse case lead wires and the regulator output wires. (yellow and pink and two white).



**Point B:** Clamp the fuse case lead wires. (two white).



**▲ CAUTION**

The cut surface may cause injuries.



13. Remove the emergency SW connector ① from the connector holder ②.

Fix the clamp (3) the lighting receptacle assy GND wires by bending. Clamp with care so that the pawl of the connector holder should not be caught as shown in Fig. 10 -Fig.11-2.

Cut off the excess part of the clamp (3).

Fix clamp (6) the lighting receptacle assy lead wires and the regulator wire (white) to the connector holder ②.

Set the emergency SW connector ① to the connector holder ②.

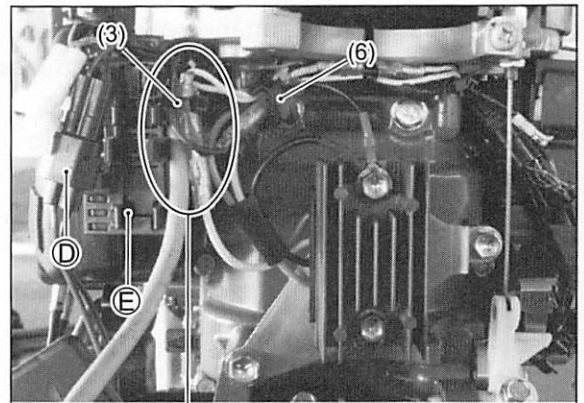


Fig. 10

**Type A:** Applicable model and effective serial number:  
00995F (DF9.9B)-71XXXX and early  
01504F (DF15A)-71XXXX and early  
02002F (DF20A)-71XXXX and early

As shown in Fig. 11-1,11-2.

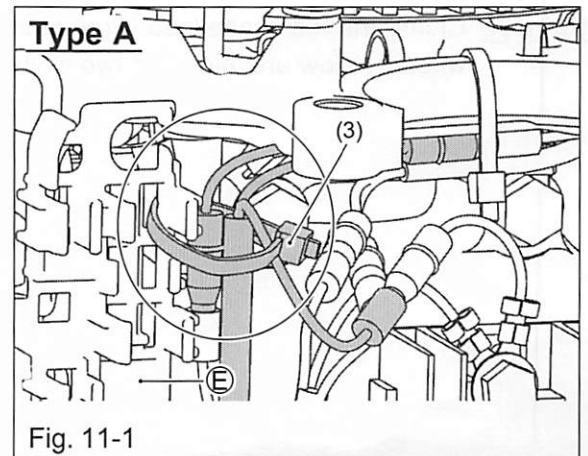


Fig. 11-1

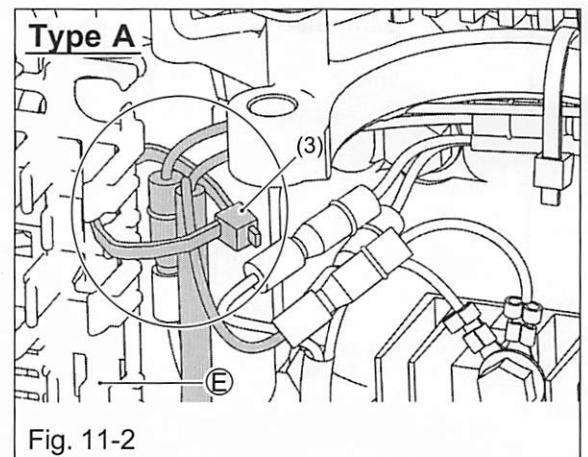


Fig. 11-2

**▲ CAUTION**

The cut surface may cause injuries.



**Type B:** Applicable model and effective serial number:

00995F (DF9.9B)-810001 and later

01504F (DF15A)-810001 and later

02002F (DF20A)-810001 and later

As shown in Fig. 12-1,12-2.

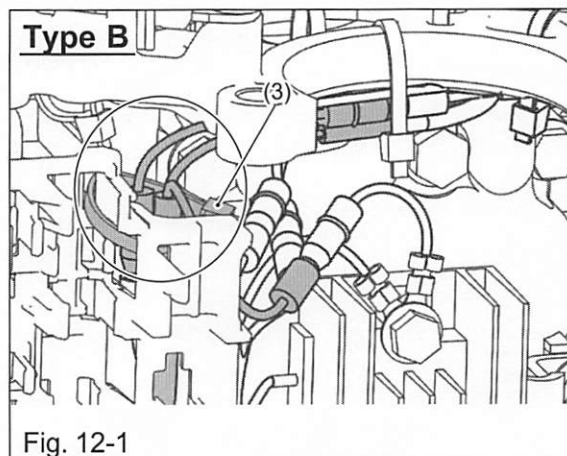


Fig. 12-1

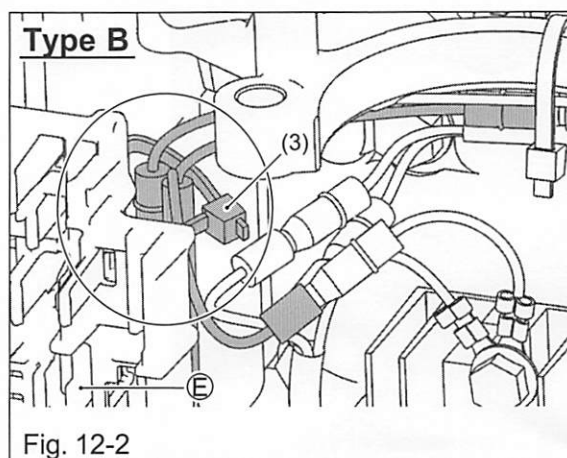


Fig. 12-2

14. Install the front panel.
15. Install the LED connector.
16. Install the inlet pipe bolt.
17. Install the recoil starter.
18. Pass the receptacle lead wires to the grommet and clamp them to the tiller handle bracket in Fig. 13,14.  
The cut end of the clamp (12) must face downward as shown in Fig. 14.

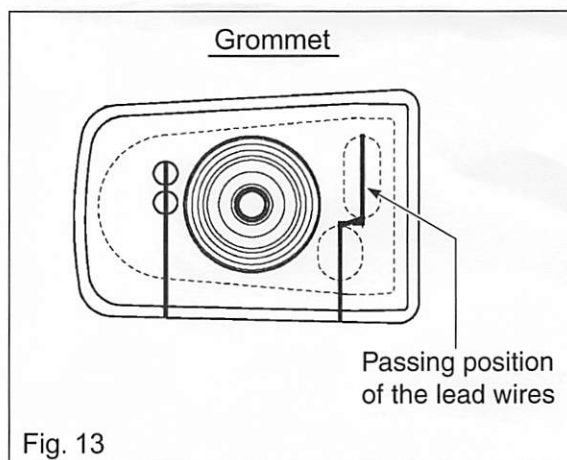


Fig. 13

19. Mount the receptacle plug to the lighting receptacle assy.
20. Install the side cover.  
(Tightening torque: 5.0 N·m (0.5 kgf-m, 3.6 lb-ft))
21. Install the engine cover.

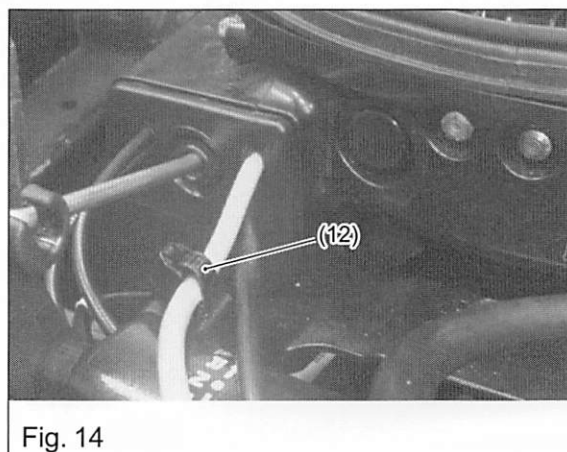


Fig. 14