



EVINRUDE[®]
Johnson[®]

REGULATED BATTERY CHARGING KITS P/N 5034251 & 5034253 INSTALLATION INSTRUCTIONS

Used for installation of Regulated Battery Charging Kits P/N's 5034251 and 5034253 on 2002 and newer 4 Stroke 9.9 & 15 HP, Manual & Electric Start Outboards

For safety reasons, this kit must be installed by an authorized *Evinrude[®]/Johnson[®]* dealer. These installation instructions contain information that can help prevent personal injury and damage to equipment. Understand the following symbols before proceeding:



DANGER



Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.



WARNING



Indicates a potentially hazardous situation which, if not avoided, **CAN** result in severe injury or death.



CAUTION



Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate personal injury or property damage. It also may be used to alert against unsafe practices.

TO THE OWNER

The assembly procedures outlined in this sheet should be performed by a skilled technician. If you have questions, see your DEALER. Save these instructions in your owner's kit. This sheet contains information important to the future use and maintenance of your engine.

TO THE INSTALLER

Give this sheet to the owner. Advise the owner of any special operation or maintenance information contained in the instructions. This kit is designed for specific applicable models only. It is not recommended for units other than those for which it was sold. Be aware that the following instructions are used for manual start and electric start models. Pay attention to model identification references throughout the text, as the procedures for each model are different.

P/N 5034251 – Install on 4 Stroke 9.9 & 15 HP Electric Start Models **ONLY**.

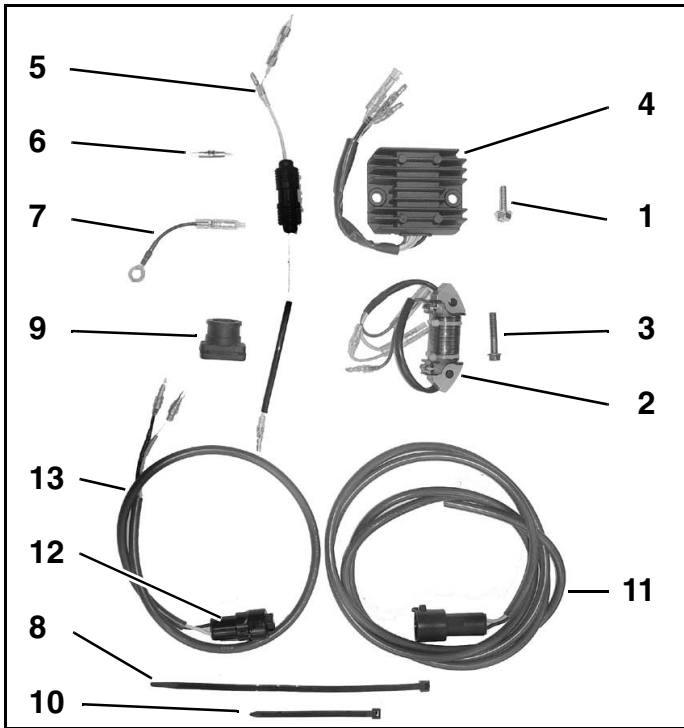
P/N 5034253 – Install on 4 Stroke 9.9 & 15 HP Manual Start Models **ONLY**.



DESCRIPTION

Regulated battery charging is achieved with the addition of a rectifier regulator and 40 watt battery charging coil to increase the battery charging coil capacity to 120 watts.


CONTENTS OF KIT



Electric Start Models			
Ref	P/N	Name of Part	Qty
	5034251	120 Watt Battery Charging Kit Rect/Reg	1
1	5030000	*SCREW, Rectifier/regulator	2
2	5034316	*COIL, Battery charge	1
3	5033300	*SCREW, Battery charge coil	2
4	5034255	*RECTIFIER/REGULATOR Assy	1


Manual Start Models			
Ref	P/N	Name of Part	Qty
	5034253	120 Watt Battery Charging Kit Rect/Reg	1
1	5030000	*SCREW, Rectifier/regulator	2
2	5034316	*COIL, Battery charge	1
3	5033300	*SCREW, Battery charge coil	2
4	5034255	*RECTIFIER/REGULATOR Assy	1
5	5030359	*CASE Assy, FUSE	1
6	5030362	*CONNECTOR, Terminal	1
7	5030364	*LEAD, Ground	1
	5034256	*BATTERY LEAD Assy	1
8	5030347	**CLAMP, (L:248mm)	1
9	5030367	**GROMMET, Receptacle	1
10	5030589	**CLAMP (L:125mm)	1
11	5034257	**RECEPTACLE, Battery lead	1
12	5034258	**CAP, Plug	1
13	5034259	**PLUG, Battery lead	1

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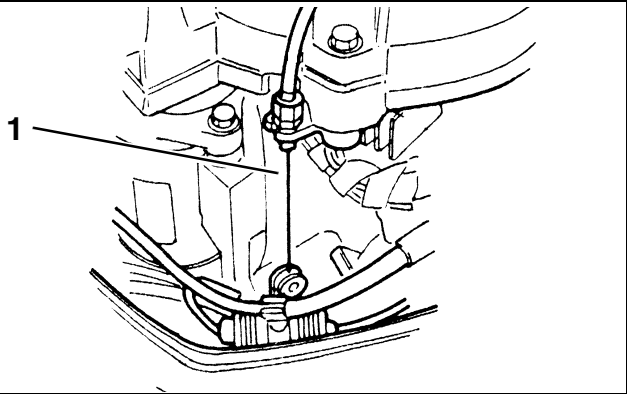
CAUTION

Improper installation of this kit could result in personal injury due to loss of boat control.



All Models

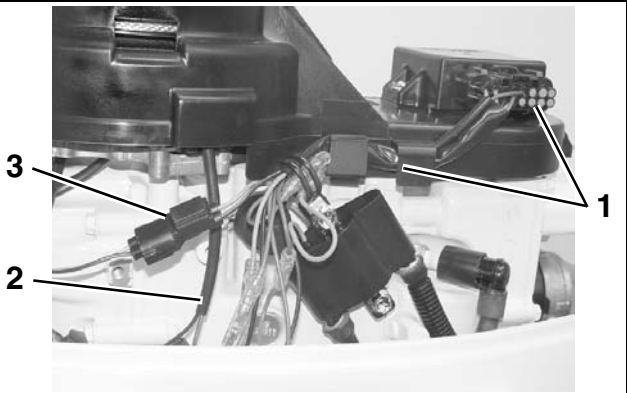
Note position of cable before removal. Loosen neutral start lockout cable anchor nut to allow inner cable removal from clutch lever bracket.



1. Neutral start lockout cable

001153

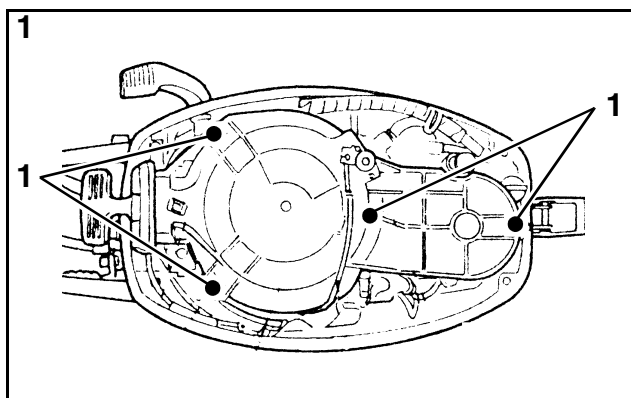
- Disconnect
- Ignition module harness and connector from ignition module and flywheel cover.
 - Timing coil leads.
 - Charge coil leads.



1. Ignition module harness and connector
2. Timing coil leads
3. Charge coil leads

001159

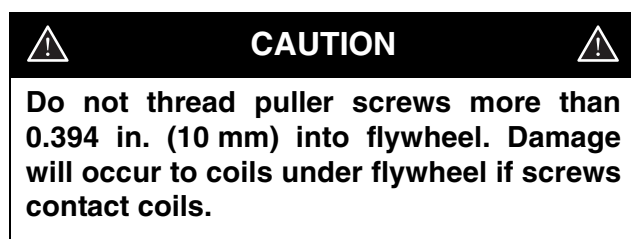
Remove four flywheel cover screws and remove cover.



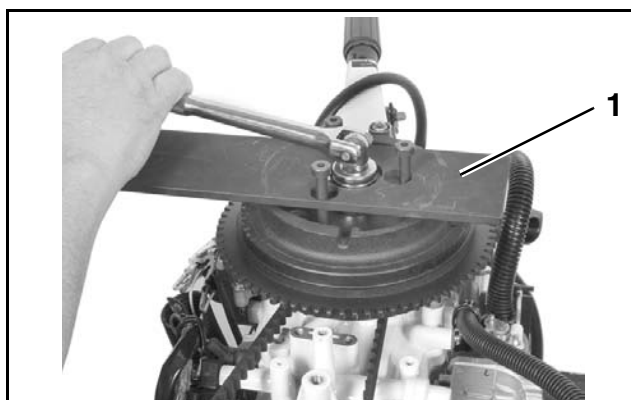
1. Screws

001154

Using flywheel holding tool, remove flywheel nut, washer and key.

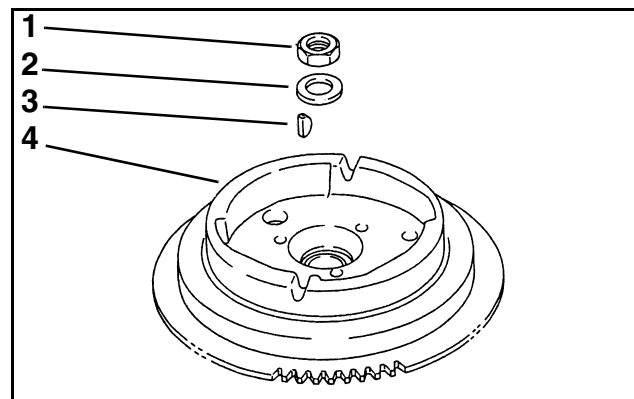


Remove the flywheel using Universal Puller, P/N 378103 with Bolt Kit P/N 5034235.



1. Flywheel holding tool (See service manual)

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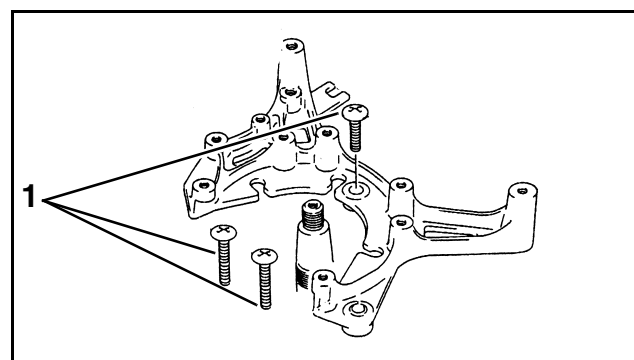


1. Flywheel nut
2. Washer
3. Flywheel key
4. Flywheel

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Remove coils from stator plate.

Remove three stator base screws and remove base.

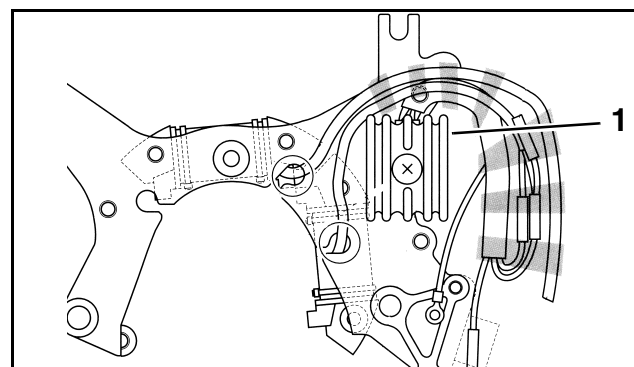


Coils removed for clarity
1. Screws

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Electric Start Models

Disconnect rectifier leads and remove rectifier.

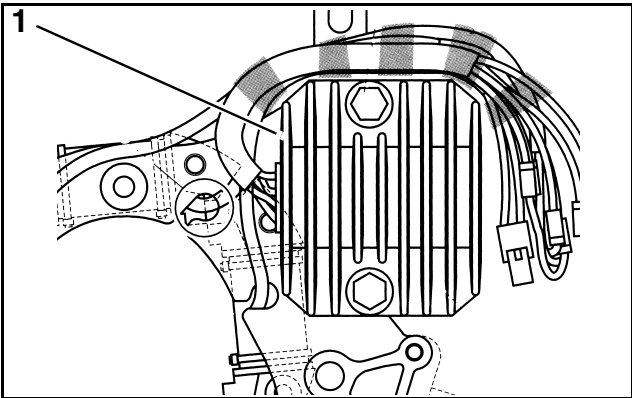


1. Rectifier

001157

All Models

Install rectifier/regulator assembly using two screws, P/N 5030000. Apply *Nut Lock™* to screws and fasten securely.



1. Rectifier regulator

001149

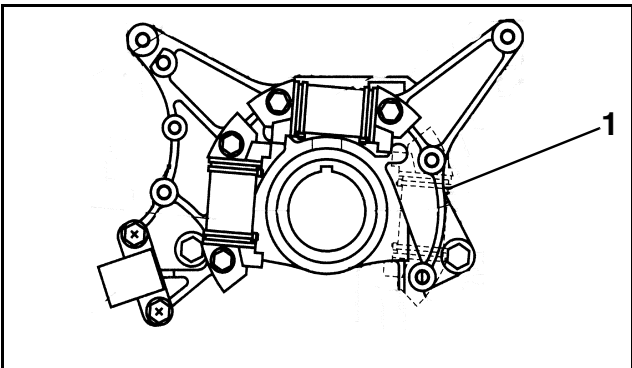
Fasten the following to the stator plate:

- Charge coil.
- Battery coil.
- Timing coil.

Apply *Nut Lock* to original screws and fasten securely.

Install additional battery charging coil, P/N 5034316, to stator plate. Using two screws, P/N 5033300, apply *Nut Lock* and fasten securely.

Position coil leads under stator plate as shown. Fasten stator plate assembly to cylinder crankcase. Apply *Nut Lock* to original screws and fasten securely.



1. Additional battery charging coil (Outline shown)

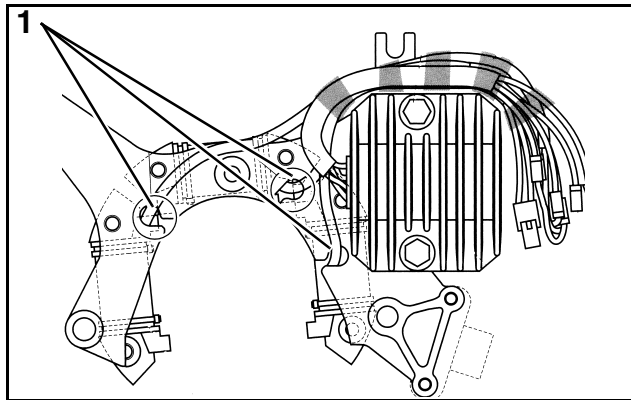
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CAUTION



Check all wiring; leads must avoid any contact with moving parts.



1. Wire routing

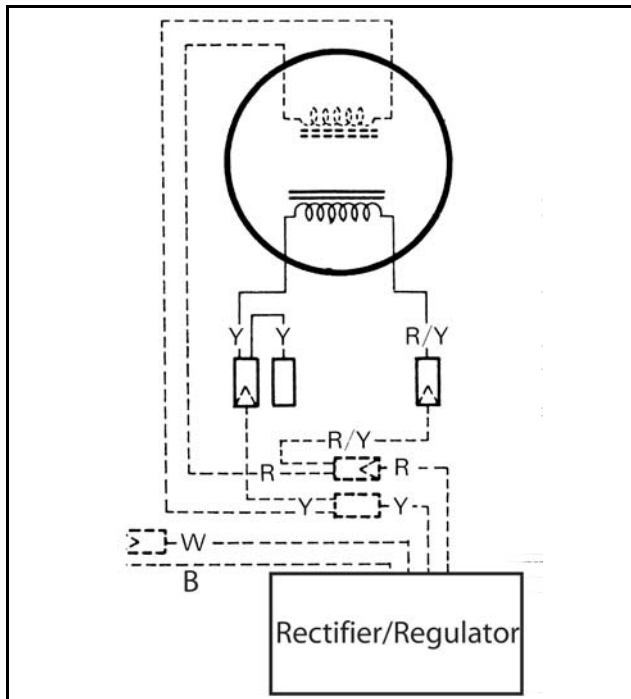
001149

Connect leads:

- Timing coil
- Charge coil

Connect battery charge coil leads (yellow to yellow; red to red).

Connect battery charge coil leads to rectifier/regulator leads (yellow to yellow; red to red). One yellow female bullet terminal will remain disconnected (open).

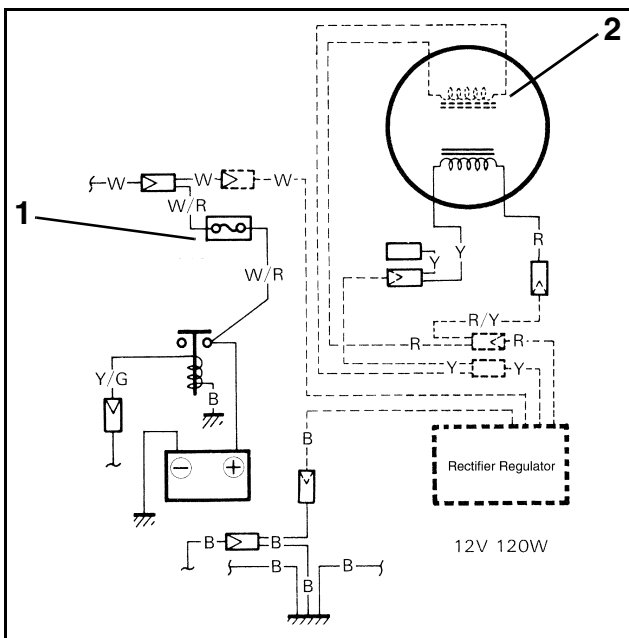
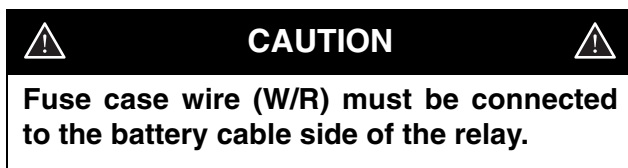


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Secure all leads to avoid damage from moving parts.

Electric Start Models

Connect rectifier/regulator white and black leads to the mating engine harness terminals previously used for rectifier. Refer to electrical schematic below for detailed electrical connection information.



Electrical schematic

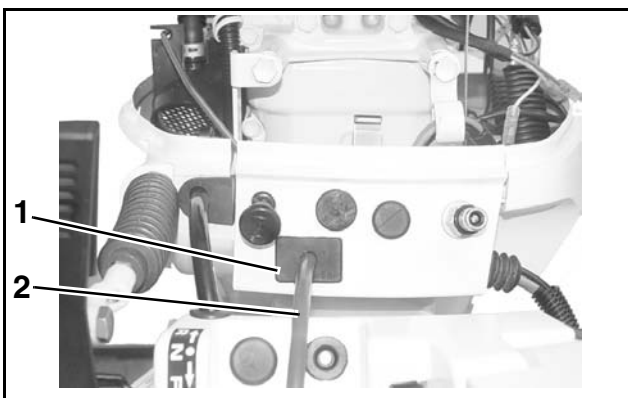
1. Fuse case wire assembly (W/R) P/N 5030359
2. Battery charge coil P/N 5034316

001161

Manual Start Models

Install receptacle grommet, P/N 5030367, in lower engine cover.

Route battery lead plug assembly, P/N 5034259, bullet terminal end of harness through grommet.



1. Receptacle grommet
2. Battery lead plug assembly

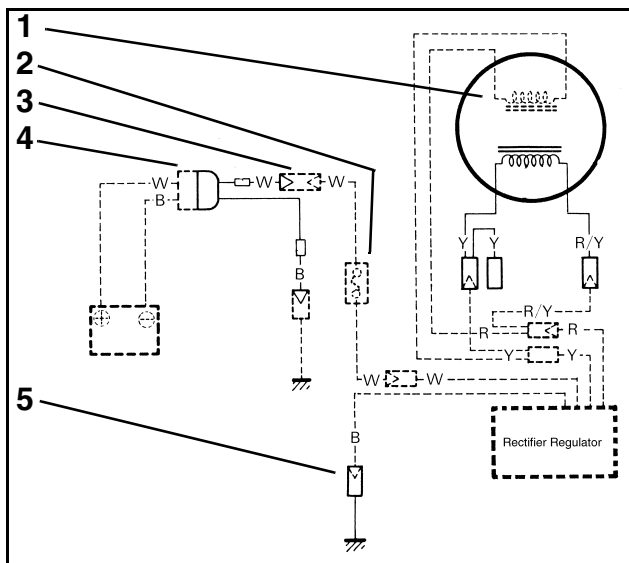
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Connect fuse lead assembly, P/N 5030359, to battery harness white lead using terminal connector, P/N 5030362.

Complete fuse lead connection to rectifier regulator white lead.

Connect battery harness black lead to terminal adapter, P/N 5030364. Complete connection of terminal adapter to ground at existing main ground connection on PORT side of cylinder crankcase.

Refer to electrical schematic below for detailed electrical connection information.



Electrical schematic

1. Battery charge coil P/N 5034316
2. Fuse case assembly P/N 5030359
3. Terminal connector P/N 5030362
4. Battery lead assembly P/N 5034256
5. Ground lead assembly P/N 5030364

001162

Connect rectifier regulator black lead to engine harness bullet terminal connected at existing main ground connection on PORT side of cylinder crankcase.



1. Engine harness ground lead
2. Main ground connection

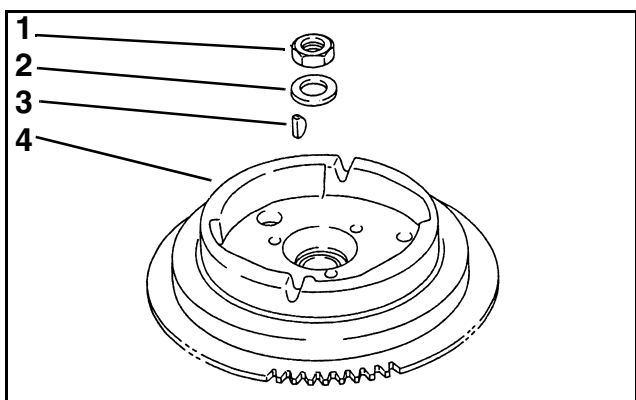
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Clean flywheel and crankshaft mating surfaces with cleaning solvent.

Install:

- Flywheel key
- Flywheel
- Flywheel washer and nut

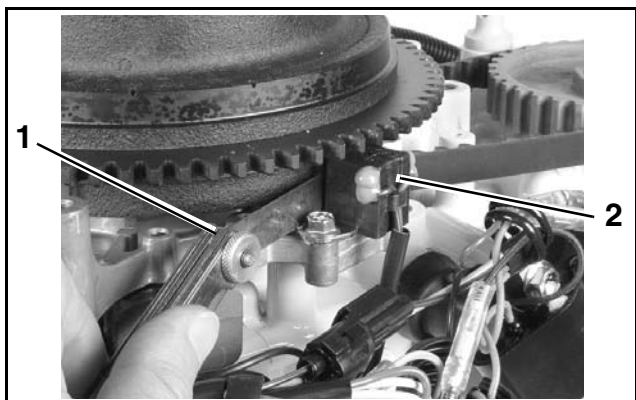
Clean mating surfaces and torque flywheel nut to 50.5 ft. lbs. (70 N·m)



1. Flywheel nut
2. Washer
3. Flywheel key
4. Flywheel

001142

Use feeler gauge to set gap of 0.028 in. (0.7 mm) between timing coil and flywheel.



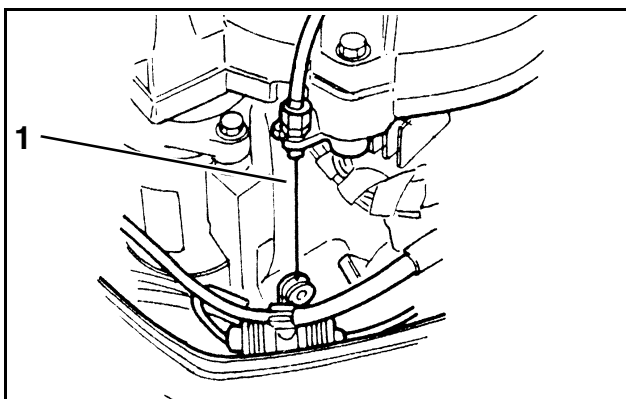
1. Feeler gauge
2. Timing coil

001165

Install flywheel cover with four screws. Apply *Nut Lock* to screws and fasten securely.

Attach ignition harness to flywheel cover and connect to ignition module.

Attach inner cable end to clutch lever bracket. Fasten neutral start lockout cable to anchor, adjust to position noted during removal, secure with jam nut.



1. Neutral start lockout cable

001153



CAUTION



Check all wiring; leads must avoid any contact with moving parts.



WARNING



Test operation of neutral start lockout. Manual starter should not engage flywheel if outboard is in FORWARD or REVERSE gear.