

ELECTRIC START KIT, P/N 5037559 INSTALLATION INSTRUCTIONS

APPLICATION



This electric start kit is designed for use on **2005 (SO) and newer 15 HP Johnson® (4S) outboards**. DO NOT install on any other models.



SAFETY INFORMATION

For safety reasons, this kit should be installed by an authorized *Evinrude®/Johnson®* dealer. This instruction sheet is not a substitute for work experience. Additional helpful information may be found in other service literature for your engine.

This instruction sheet uses the following signal words identifying important safety messages.

	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.		

IMPORTANT: Identifies information that will help prevent damage to machinery and appears next to information that controls correct assembly and operation of the product.

These safety alert signal words mean:

**ATTENTION!
BECOME ALERT!
YOUR SAFETY IS INVOLVED!**

Always follow common shop safety practices. If you have not had training related to common shop safety practices, you should do so to protect yourself, as well as the people around you.

It is understood that this instruction sheet may be translated into other languages. In the event of any discrepancy, the English version shall prevail.

DO NOT do any repairs until you have read the instructions and checked the pictures relating to the repairs.

Be careful, and never rush or guess a service procedure. Human error is caused by many factors: carelessness, fatigue, overload, preoccupation, unfamiliarity with the product, and drugs and alcohol use, to name a few. Damage to a boat and outboard can be fixed in a short period of time, but injury or death has a lasting effect.

When replacement parts are required, use *Evinrude/Johnson Genuine Parts* or parts with equivalent characteristics, including type, strength and material. Using substandard parts could result in injury or product malfunction.

Torque wrench tightening specifications must be strictly followed. Replace any locking fastener (locknut or patch screw) if its locking feature becomes weak. Definite resistance to turning must be felt when reusing a locking fastener. If replacement is specified or required because the locking fastener has become weak, use only authorized *Evinrude/Johnson Genuine Parts*.

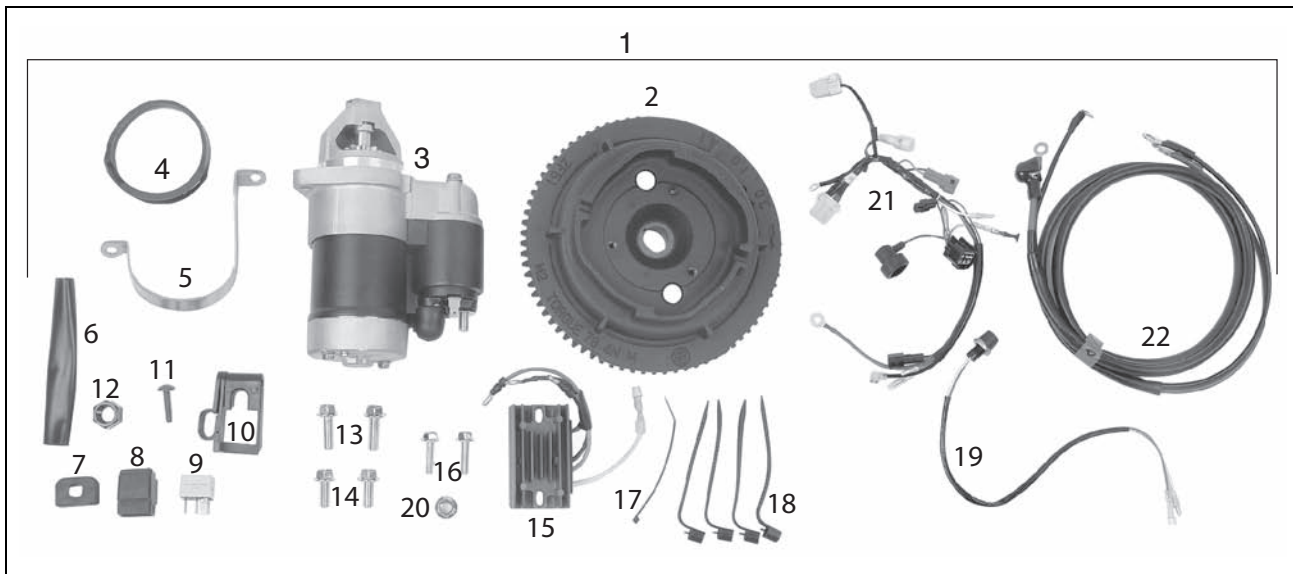
If you use procedures or service tools that are not recommended in this instruction sheet, YOU ALONE must decide if your actions might injure people or damage the outboard.

TO THE INSTALLER: Give this sheet and the operating instructions to the owner. Advise the owner of any special operation or maintenance information contained in the instructions.

TO THE OWNER: Save these instructions in your owner's kit. This sheet contains information important to the future use and maintenance of your engine.



ELECTRIC START KIT



Ref	P/N	Name of Part	Qty	Ref	P/N	Name of Part	Qty
1	5007559	ELECTRIC START KIT	1	12	5031828	*NUT	1
2	5036257	*FLYWHEEL	1	13	5030995	*SCREW	2
3	5036244	*STARTER MOTOR AY	1	14	5030994	*SCREW	2
4	5036252	*DAMPER	1	15	5036262	*RECTIFIER/REGULATOR AY	1
5	5036251	*BRACKET	1	16	5030990	**SCREW	2
6	5036274	*TUBE	1	17	5031118	*TIE STRAP	1
7	5036272	*GROMMET	1	18	5035788	*TIE STRAP	4
8	5033258	*HOLDER, RELAY	1	19	5036283	*SWITCH	1
9	5033264	*RELAY	1	20	5031021	*NUT	1
10	5036273	*CLAMP	1	21	5036280	*HARNESS AY	1
11	5037528	*SCREW	1	22	5036271	*CABLE, BATTERY	1

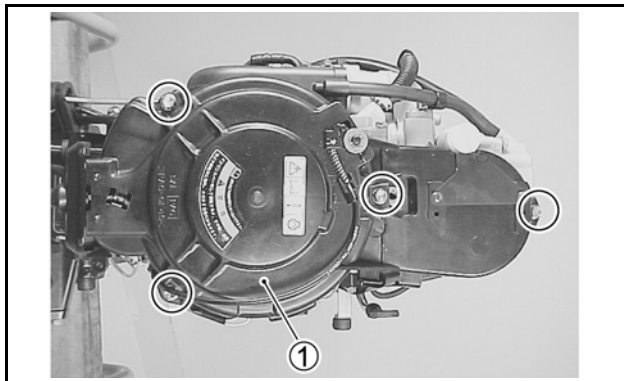
INSTALLATION

⚠ WARNING ⚠

To prevent accidental starting while servicing, twist and remove all spark plug leads.

Refer to the appropriate service manual for additional information.

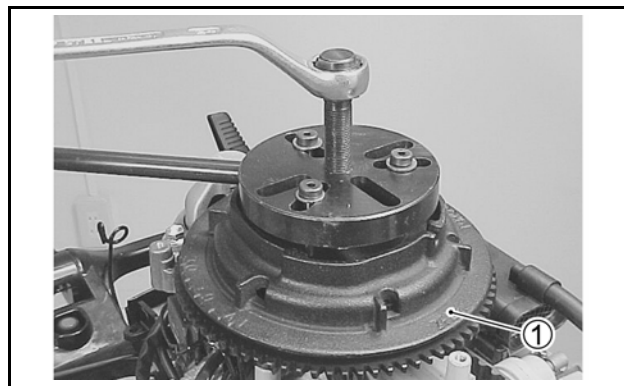
Remove engine covers and recoil starter.



1. Recoil starter

004733

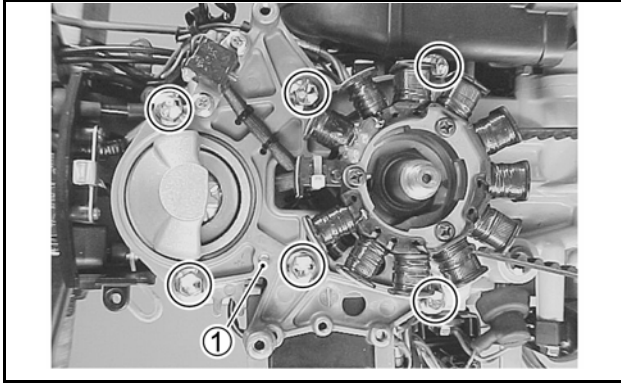
Remove flywheel.



1. Flywheel

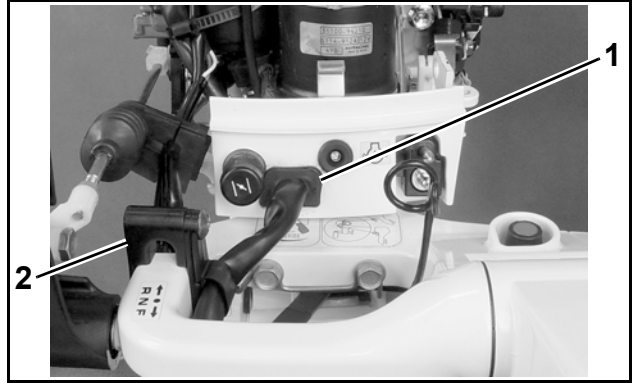
004734

Disconnect stop switch wire connector. Remove stator and stator base.



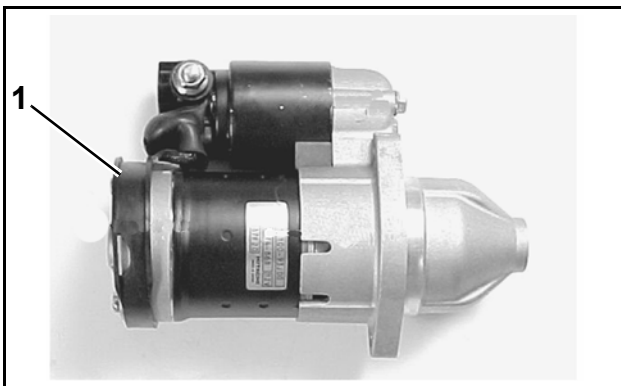
1. Stator base 004738

Install battery cable grommet and cable clamp and screw.



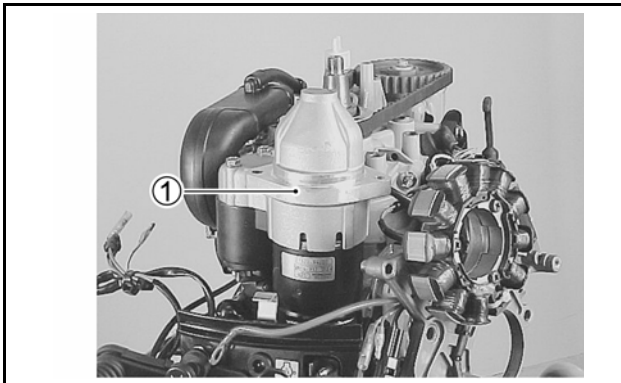
1. Grommet 006504
2. Cable clamp

Position grommet on starter motor.



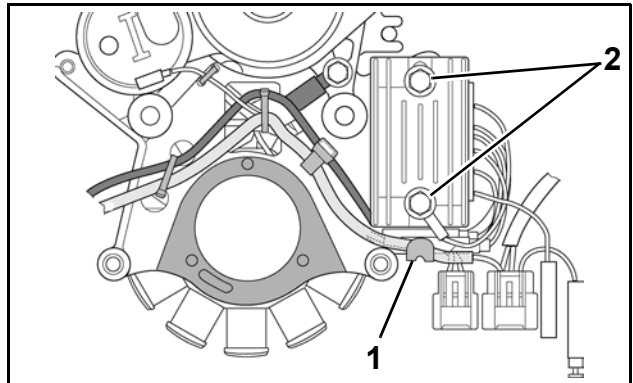
1. Grommet 004741

Position starter motor at front of crankcase. Install starter motor bracket. Do not tighten bracket screws at this time.



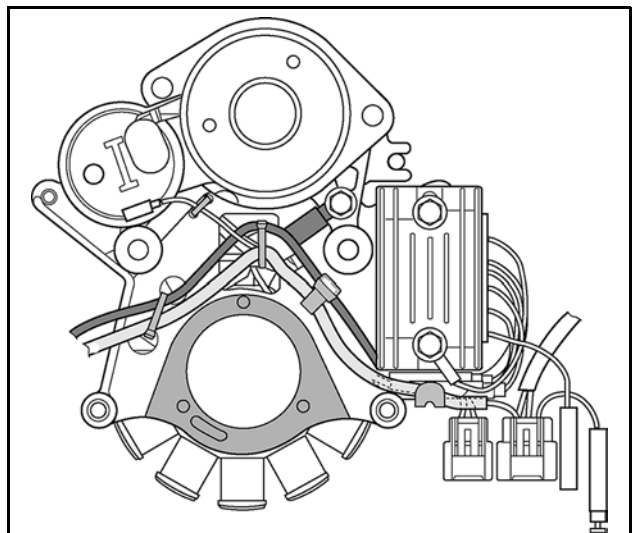
1. Starter motor 004739

Install rectifier/regulator on bottom of stator base as shown. Use screws provided and position clamp as shown. Tighten screws to 84 in. lbs. (10 N·m).



1. Clamp 006505
2. Screws

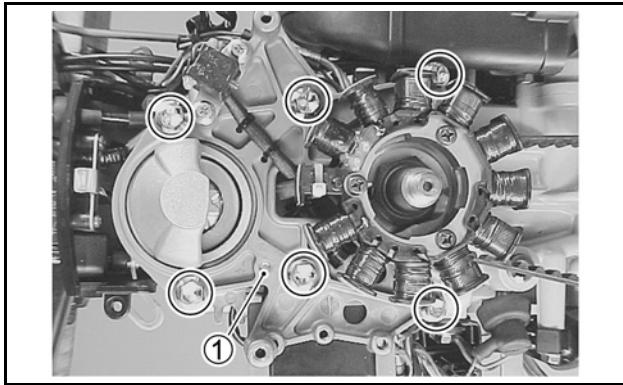
Remove wiring harness and install replacement wiring harness. Position harness with tie straps and clamp as shown.



006506

Install stator base. Apply nut lock to threads and tighten screws as follows:

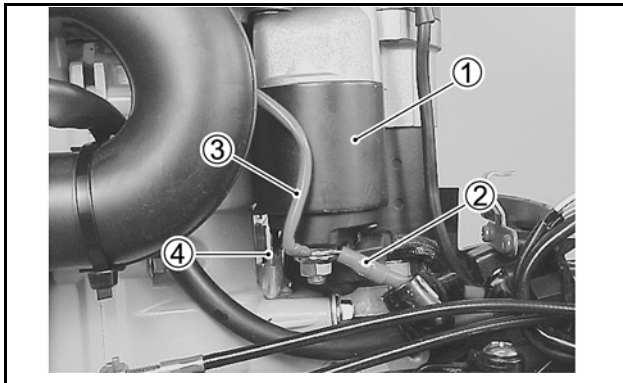
- 8 mm screws: 16.5 ft. lbs. (23 N·m)
- 6 mm screws: 84 in. lbs. (10 N·m)



1. Stator base 004738

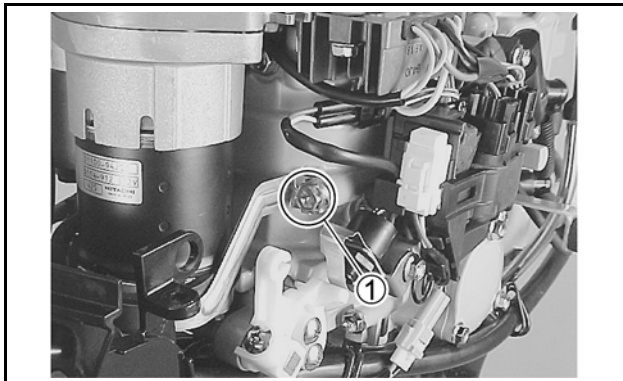
IMPORTANT: Do not pinch wiring during installation.

Route wiring and battery cables to starter motor as shown.



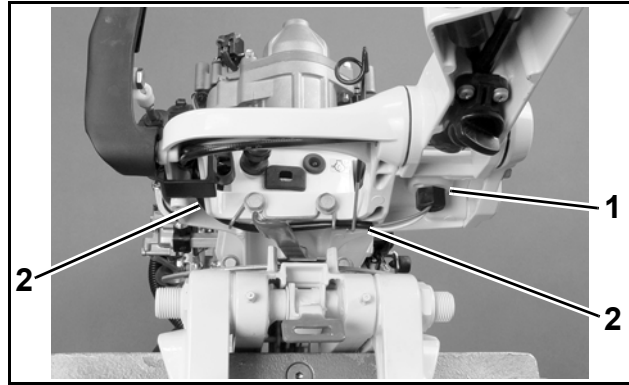
1. Starter motor
2. Positive battery cable
3. Battery charge cable
4. Start wire 004705

Tighten starter motor band screws to 16.5 ft. lbs. (23 N·m).



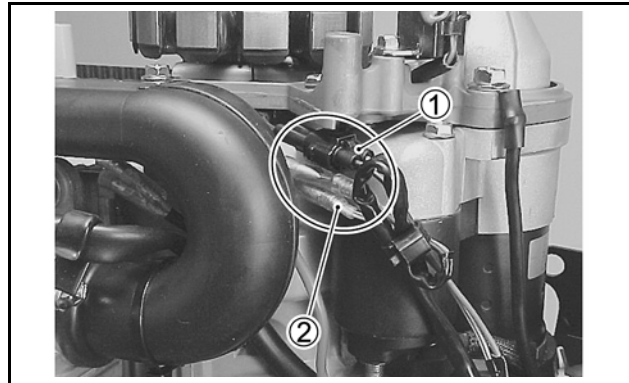
1. Screws (2), starter band 004737

Install starter switch with nut on steering bracket. Route wiring to motor cover grommet as shown.



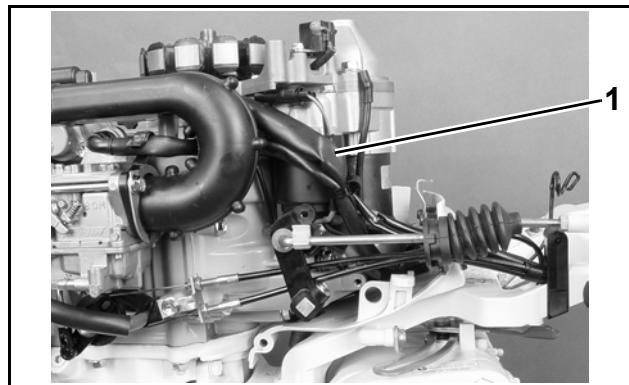
1. Starter switch and nut 006507
2. Wiring, starter switch

Connect stop switch connector and starter switch connectors and to engine wire harness at stator base.



1. Stop switch connector 004736
2. Starter switch connectors

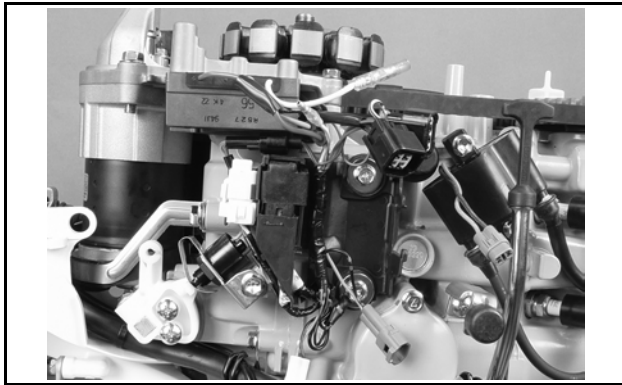
Install protective sleeve and tie strap as shown.



1. Sleeve 006508

IMPORTANT: Position wiring to prevent interference with shift linkage.

Route wire harness through the electrical bracket and behind CDI unit. Position starter relay with holder and fuse case in electrical bracket.



1.

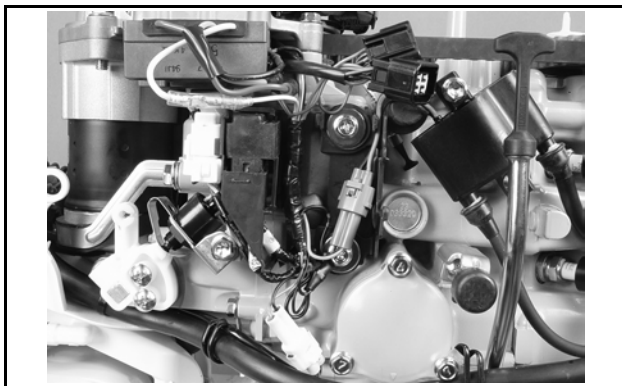
006509

Connect rectifier/regulator wiring connectors and neutral switch wiring connector.



006510

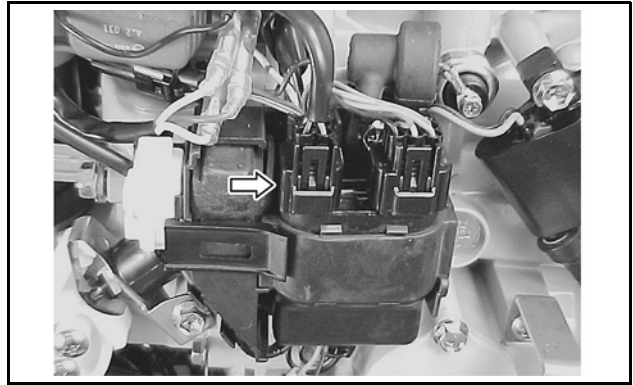
Connect coil wiring connector, oil pressure sending unit wire and oil pressure caution lamp connector.



1.

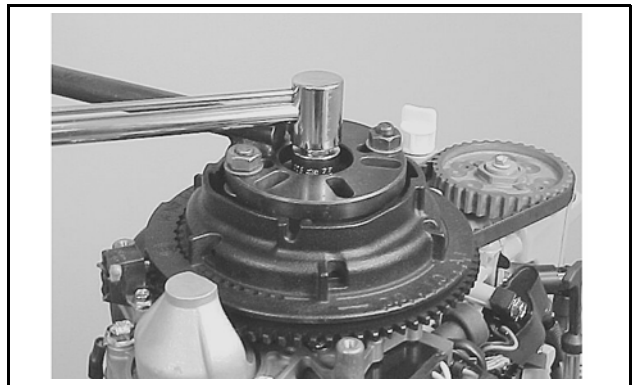
006511

Connect electrical connectors to CDI unit and position in electrical bracket.



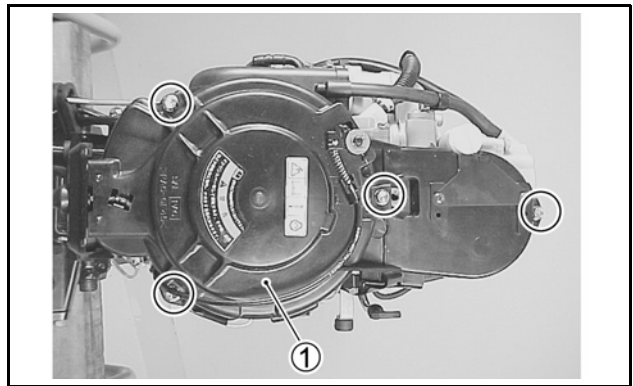
004709

Clean flywheel and crankshaft mating surfaces with cleaning solvent. Use flywheel holder to hold flywheel. Tighten flywheel nut to 58 ft. lbs. (78.4 N·m).



004713

Install recoil starter and tighten screws securely.



1. Recoil starter

004733

⚠ WARNING ⚠
Secure wiring to prevent contact with moving parts. Keep wiring away from shift lever/lockout assembly. Contact can cause outboard damage or personal injury.

protection, emergency stop switch, battery charging and stop switch.

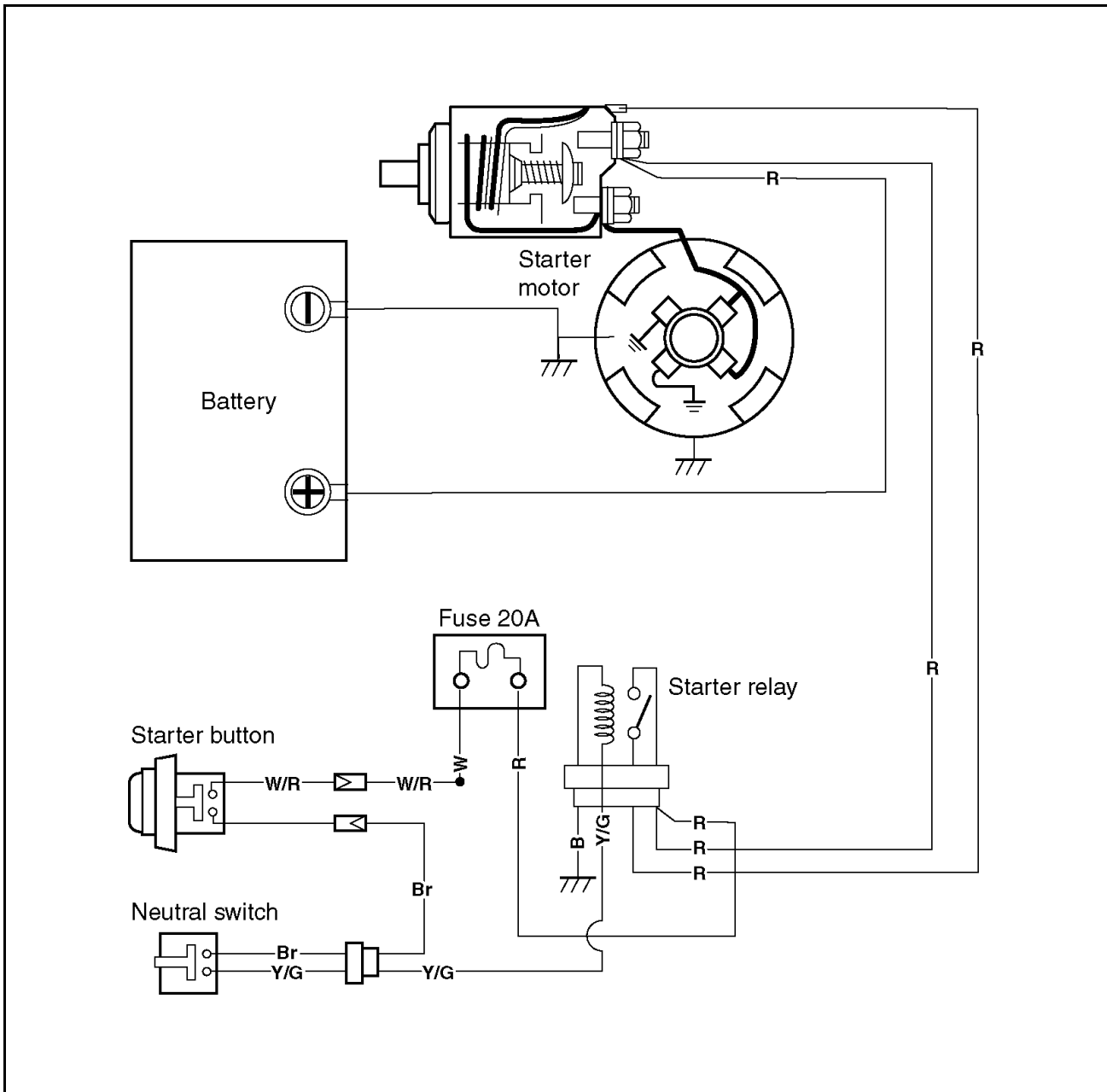
⚠ WARNING ⚠
Check operation of start-in-gear protection. Improper operation can lead to outboard damage or personal injury.

Reinstall engine covers and spark plug leads.

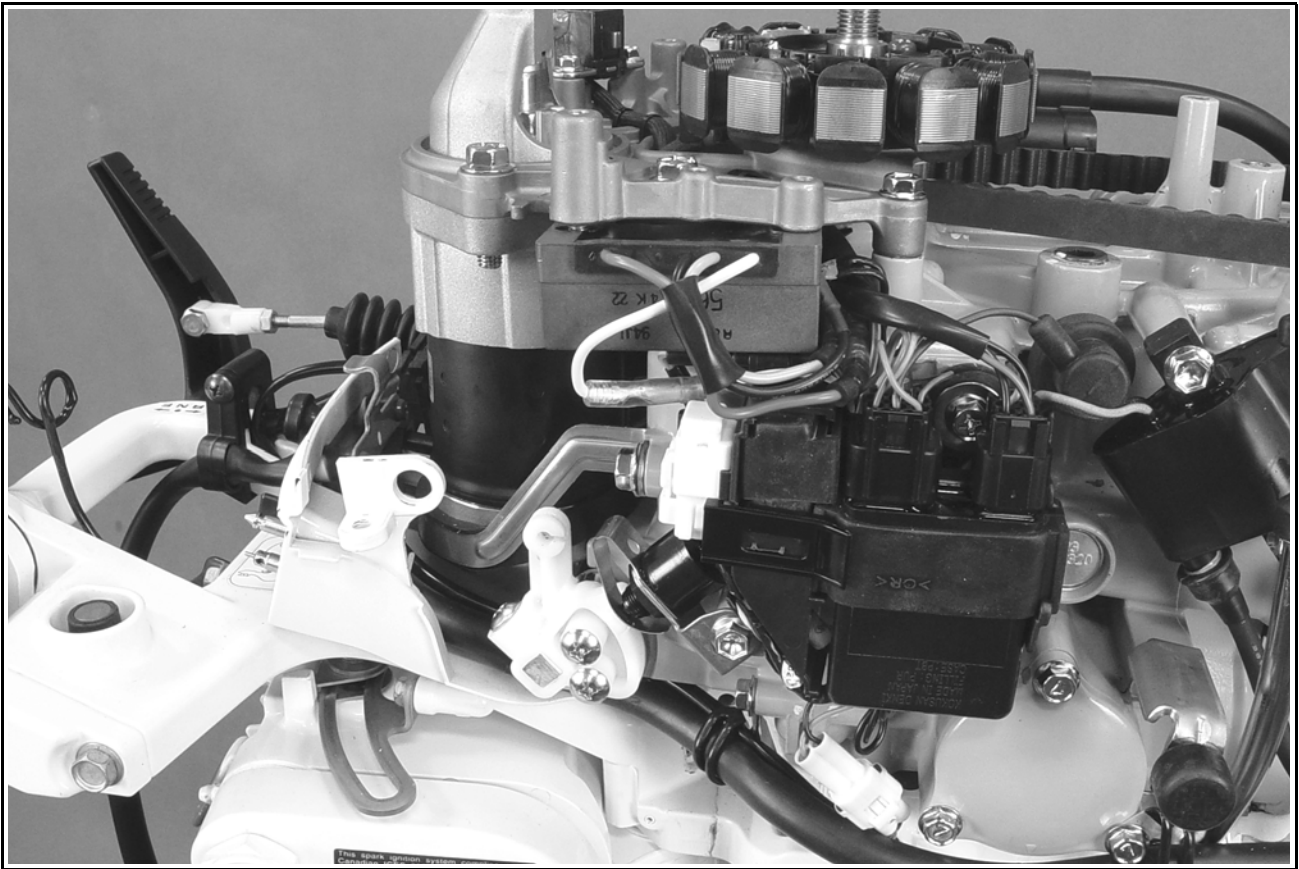
Run outboard and test operation. Check for proper operation of electric start, start-in-gear

IMPORTANT: Instruct owner on the operation of the electric start and charging features. Advise owner to refer to an Operator's Guide with electric start operating instructions.

Wiring Diagram



Reference View – Port Side



Reference View – Starboard Side



