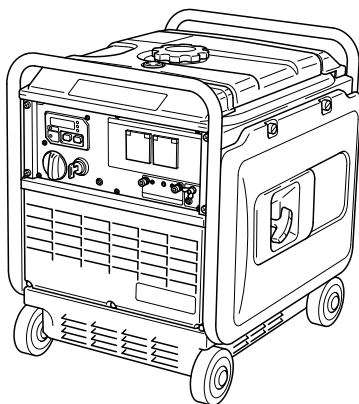
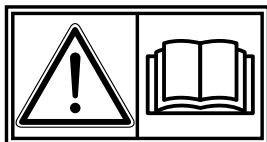


RG2800iS RG3200iS RG4300iS



SUBARU

Industrial Power Products



3ZZ9990551

INSTRUCTIONS FOR USE

MANUEL D'UTILISATION

BEDIENUNGSANLEITUNG

GEBRUIKSAANWIJZING

MANUAL DE INSTRUCCIONES

MANUALE D'USO E MANUTENZIONE

MANUAL DE INSTRUÇÕES

ΟΔΗΓΙΕΣ ΧΡΗΣΕΩΣ ΚΑΙ ΣΥΝΤΗΡΗΣΕΩΣ ΚΙΝΗΤΗΡΩΝ

INSTRUKTIONSBOK

BRUKSANVISNING

KÄYTTÖ-JA HUOLTO-OHJEET

BRUGSANVISNING

РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ

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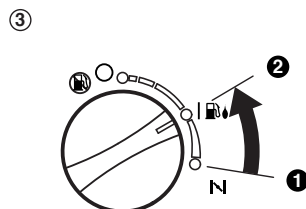
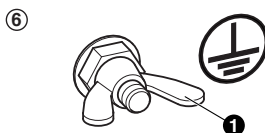
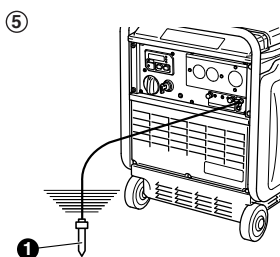
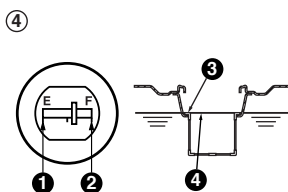
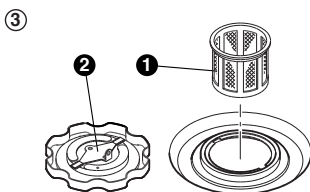
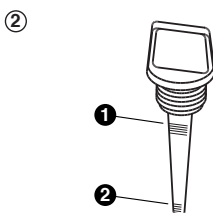
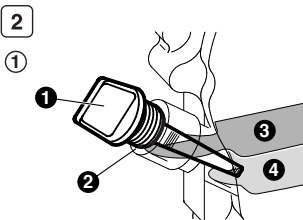
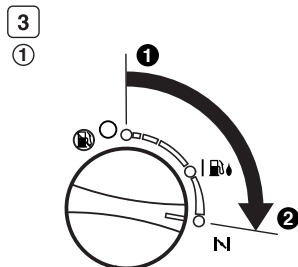
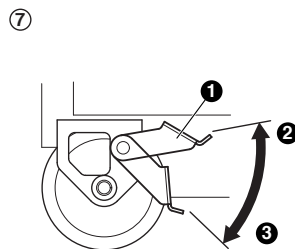
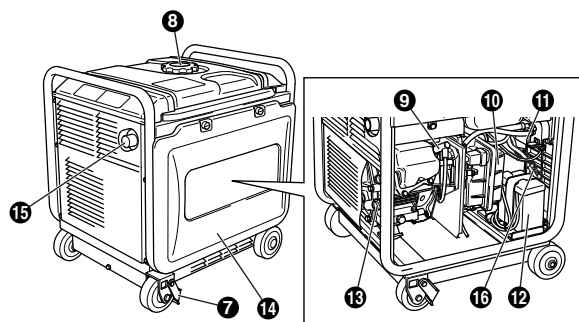
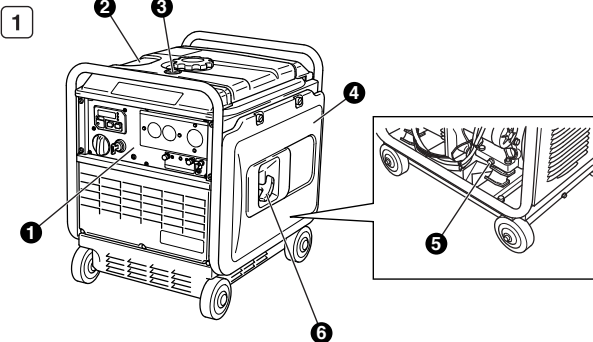
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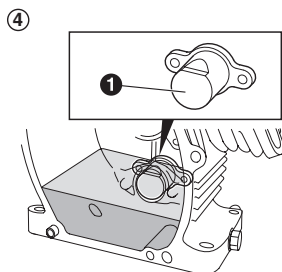
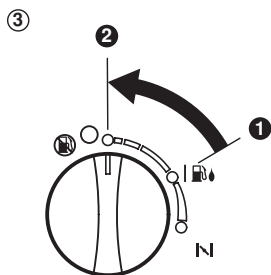
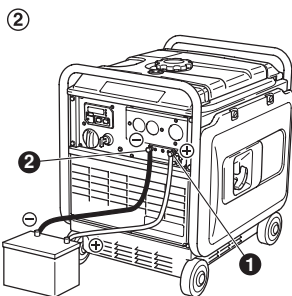
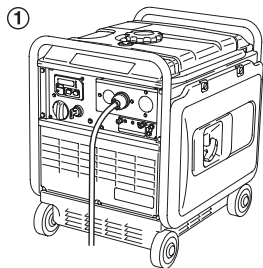
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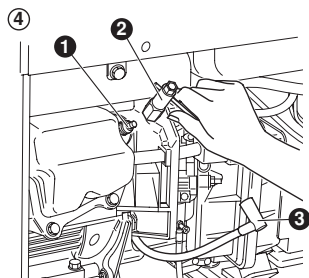
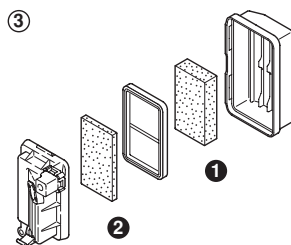
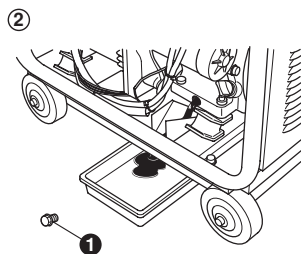
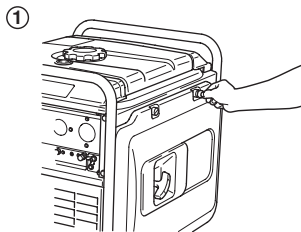
Robin Generator



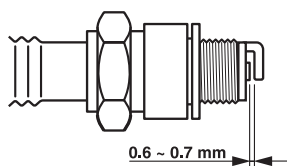
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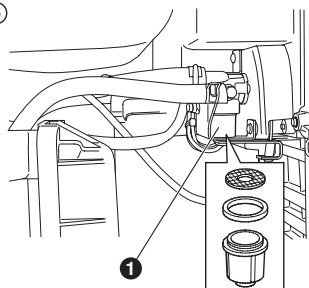
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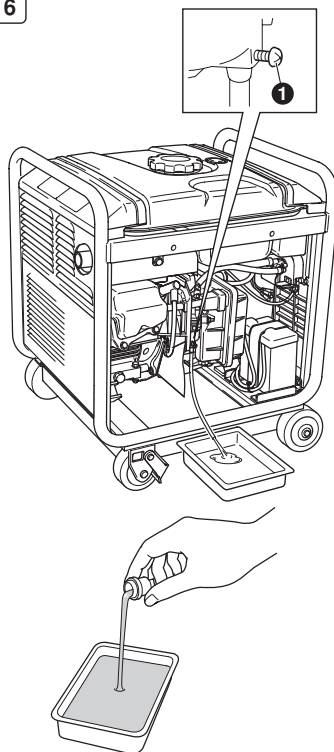
⑤



⑥



6



"EC-DECLARATION OF CONFORMITY" CONTENT OUTLINE
 "EG-KONFORMITÄTSEKKLÄRUNG" INHALTSANGABE
 "DECLARATION DE CONFORMITÉ EC" DONNÉES DU CONTENU
 "EU VERKLARING VAN CONFORMITEIT" SAMENVATTING INHOUD
 "DICHIARAZIONE DI CONFORMITÀ EC" DATI DEL CONTENUTO
 ΣΥΝΟΨΗ ΠΕΡΙΕΧΟΜΕΝΟΥ "ΔΗΛΩΣΗΣ ΣΥΜΜΟΡΦΩΣΗΣ Ε.Ε."

"DECLARACIÓN DE CONFORMIDAD DE LA CE" DATOS DEL CONTENIDO
 "CE-DECLARAÇÃO DE CONFORMIDADE" SÍNTESE DE CONTEÚDO
 "EG-FÖRSÄKRAN OM ÖVERENSTÄMMELSE" INNEHÅLLSÖVERSIKT
 "EC-YHDENMUKAISUUSSELVITYS" SISÄLLÖN PÄÄPIIRTEET
 "EC-KONFORMITETS DEKLARASJON" INNHOLDSOVERSIKT
 HOVEDTRÆK AF INDHOLDET I "EU-DEKLARATION OM KONFORMITET"

EC-DECLARATION OF CONFORMITY EG-KONFORMITÄTSEKKLÄRUNG DECLARATION DE CONFORMITÉ "EC" EU VERKLARING VAN CONFORMITEIT		DICHIARAZIONE DI CONFORMITÀ EC ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ Ε.Ε. DECLARACIÓN DE CONFORMIDAD DE LA CE CE—DECLARAÇÃO DE CONFORMIDADE	EG-FÖRSÄKRAN OM ÖVERENSTÄMMELSE EC-YHDENMUKAISUUSSELVITYS EC-KONFORMITETS DEKLARASJON EU-DEKLARATION OM KONFORMITET
Manufacturer Hersteller Fabricant Fabrikant	Costruttore Κατασκευαστής Fabricante Fabricante	Tillverkare Valmistaja Produsent Fabrikant	FUJI HEAVY INDUSTRIES LTD. 1-7-2, Nishi-Shinjuku, Shinjuku-ku, Tokyo, Japan, 160-8316
Address of the person who keeps the Technical Documentation Anschrift der Person, die für technische Dokumentation verantwortlich ist Adresse de la personne qui garde la Documentation Technique Adres van de degene bij wie de Technische Documentatie berust Indirizzo della persona che conserva la documentazione tecnica Διεύθυνση υπευθύνου για τις Τεχνικές Τεκμηρίωσης Dirección del encargado de la documentación técnica Endereço do responsável pela conservação da Documentação Técnica Adress gällande den juridiska person som förvarar den tekniska dokumentationen Sen tahan nimi ja osoite, jonka hallussa teknillinen dokumentaatio on Adresse på personen som står for teknisk dokumentasjon Adresse på den person, der opbevarer den tekniske dokumentation			FUJI HEAVY INDUSTRIES LTD. Industrial Products Company Saitama Plant 4-410 Asahi, Kitamoto-City, Saitama, Japan, 364-8511
Authorized Compiler In The Community Autorisierter Bearbeiter in der Gemeinschaft Compilateur autorisé dans la Communauté Erkende samensteller in de Gemeenschap Compilatore autorizzato nella Comunità Εξουσιοδοτημένος συντάκτης στην Κοινότητα		Compilador autorizado en la Comunidad Compilador Autorizado na Comunidade Auktoriserad sammanställare inom gemenskapen Valtuutettu paikallinen laatija Autorisert kompilator i allmennheten Autoriseret kompilator i samfundet	
Description of the equipment Beschreibung des Geräts Description de l'équipement Beschrijving van de apparatuur		Descrizione dell'apparecchiatura Περιγραφή μηχανήματος Descripción del equipo Descrição do equipamento	
Description of the equipment Beschreibung des Geräts Description de l'équipement Beschrijving van de apparatuur		Beskrivning av utrustningen Laitteiston kuvaus Beskrivelse av utstyret Beskrivelse af udstyret	
Product :Power Generator Produkt :Stromgenerator Produit :Générateur d'alimentation Product :Stroomgenerator Prodotto :Generatore di energia elettrica Προϊόν :Ηλεκτροπαραγωγική γεννήτρια Producto :Grupo electrógeno Produto :Gerador de Força Produkt :Kraftgenerator Tuote :Sähkögeneraattori Produkt :Kraftgenerator Produkt :Stromgenerator	Trade name : *1 Handelsbezeichnung : *1 Marque déposée : *1 Handelsnaam : *1 Denominazione commerciale : *1 Εμπορική ονομασία : *1 Nombre comercial : *1 Nome comercial : *1 Handelsnamn : *1 Kauppanimi : *1 Handelsnavn : *1 Handelsbetegnelse : *1	Serial number (start/last) : *1 Seriennummer (Erste/Letzte) : *1 Numéro de série (initial/dernier) : *1 Seriennummer (eerste/laatste) : *1 Numero di serie (iniziale/ultimo) : *1 Αύξων αριθμός (αρχικός/τελευταίος) : *1 Número de serie (inicial/último) : *1 Número de série (inicial/último) : *1 Seriennummer (start/slut) : *1 Sarjanumero (ensimmäinen/viimeinen) : *1 Seriennummer (start/siste) : *1 Seriennummer (start/sidste) : *1	

The undersigned, representing the manufacture, herewith declares that the product in conformity with the provisions the following EC-directives;

Der Unterzeichnende, den Hersteller repräsentierend, erklärt hiermit, daß das Produkt mit den Forderungen der folgenden EG-Amtsblattverfügungen übereinstimmt:

Le soussigné, représentant le Fabricant, déclare que le produit est en conformité avec les Directives EC suivantes:

Ondergetekende, in zijn hoedanigheid als vertegenwoordiger van de fabrikant, verklaart hierbij dat het product voldoet aan de eisen zoals geformuleerd in de volgende EU richtlijnen

Il sottoscritto, in rappresentanza del Costruttore con il presente documento dichiara che il prodotto è conforme alle norme delle seguenti direttive EC:

Ο υπογράφων, αντιπρόσωπος του κατασκευαστή, μετά της παρούσης δηλώνει ότι το προϊόν αυτό ανταποκρίνεται στα απαιτήσεις των ακόλουθων οδηγιών της Ευρωπαϊκής Ένωσης:

EL firmante, representando al fabricante, declara que el producto conforma las provisiones de las siguientes normativas de la CE:

O abaixo assinado, representando o fabricante, declara por meio desta que o produto está em conformidade com as disposições das seguintes diretivas da CE:

Undertecknad, representerande tillverkaren, försäkrar härmed att produkten är i överensstämmelse med bestämmelserna i följande EG-direktiv:

Allekirjoittanut, joka edustaa tuotetta, täten ilmoittaa, että tuote on yhdenmukainen seuraavien EC-direktiivien sopimusestojen kanssa;

Undertegnede og representant for produsenten, erklærer herved at produktet er i samsvar med bestemmelsene i følgende EC-direktiver;

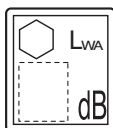
Undertegnede, der repræsenterer fabrikanten, erklærer hermed, at produktet er i overensstemmelse med de bestemmelse, der findes i følgende EU-direktiver:

2004/108/EC
 2006/42/EC (98/37/EC)
 2006/95/EC
 2000/14/EC

Outdoor noise Directive Verfügung über Außenlärm Directive de bruit extérieur Richtlijn geluidsemissie door materieel buitenshuis	Direttiva di rumore esterno Οδηγία περί στάθμης εξωτερικού θορύβου Directiva de ruido exterior Directiva sobre o Ruído exterior	Direktiv om buller i miljøen från utrustning som är avsedd att användas utomhus Ulkoista melua koskeva direktiivi Direktiv om utendørsstøy Udendørs strømdirektiv		
Measured Sound Power Level Gemessener Schalldruckpegel Niveau de puissance acoustique mesurée Gemeten geluidsdruk-niveau Livello di rumore misurato Μετρηθέν επίπεδο ισχύος ηχητικών εκπομπών	Nivel de potencia sonora medido Nivel de potência sonora medido Uppmätt bullernivå Mitattu äänivoimataso Målt lydeffektnivå Målt lydeffektniveau	*1		
Guaranteed Sound Power Level Garantierter Schalldruckpegel Niveau de puissance acoustique garantie Opgegeven geluidsdruk-niveau Livello di rumore garantito Εγγυημένο επίπεδο ισχύος ηχητικών εκπομπών	Nivel de potencia sonora garantizado Nivel de potência sonora garantido Garanterad bullernivå Taattu äänivoimataso Garantert lydeffektnivå Garanteret lydeffektniveau	*1		
Conformity Assessment Procedure Bewertungsverfahren zur Feststellung der Übereinstimmung Procédé d'évaluation de conformité Toetsprocedure conformiteit Procedura di valutazione di conformità Διαδικασία αξιολόγησης συμμόρφωσης	Procedimiento de evaluación de conformidad Procedimento de avaliação da conformidade Procedur för bedömning av överensstämmelse Yhdenmukaisuuden arviointimenetelmä Prosedyre for konformitetsvurdering Procedure anvendt ved bedømmelse af konformitet	Annex VIII procedure		
Notified body Benachrichtigtes Organ Corps annoncé In kennis gesteld orgaan	Corpo annunciato Κοινοποιημένος οργανισμός Cuerpo anunciado Organismo notificado	Anmält organ Ilmoitettu runko Teknisk kontrollorgan Teknisk kontrolorgan	SNCH 11,Route de Luxembourg L-5230 Sandweiler	
Reference to harmonized standards: Verweis auf harmonisierte Normen: Référence pour harmoniser les normes: Referentie aan geharmoniseerde standaarden: Riferimento alle normative armonizzate: Αναφορά στα εναρμονισμένα πρότυπα:	Referencia a normas relacionadas: Referência para harmonizar standards: Hänvisning till harmoniserade standarder: Lähdeviittaukset standardien saamiseksi sopusointuun: Referanse til samstemmende standarder: Reference til harmoniseringsstandarder:	EN 12601		
Other national standards or specifications used: Andere angewandte nationale Normen oder Spezifikationen: Autres normes nationales ou spécifications utilisées: Overige gebruikte nationale standaarden of specificaties: Altre normative nazionali o specifiche impiegate: Άλλα κρατικά πρότυπα ή προδιαγραφές που χρησιμοποιήθηκαν:	Otras normas nacionales o especificaciones utilizadas: Outros padrões ou especificações nacionais utilizados: Övriga använda nationella standarder eller tekniska specifikationer: Muut käytetyt kansalliset standardit tai tekniset tiedot: Andre anvendte standarder eller spesifikasjoner: Andre anvendte nationale standarder eller specifikationer:	—		
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*1 : See EC-Declaration.

DK CE-mærkeskilt



FOREWORD

Thank you very much for purchasing a **ROBIN GENERATOR**.
This manual covers operation and maintenance of the **ROBIN GENERATOR**.
This **ROBIN GENERATOR** can be used for general electrical equipments, appliances, lamps, tools as an AC power source. With regards to DC application, the terminals are used only for charging 12 volt battery.
Never use this generator for any other purposes.

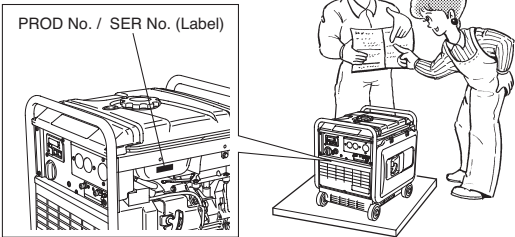
Please take a moment to familiarize yourself with the proper operation and maintenance procedures in order to maximize the safe and efficient use of this product.
Keep this owner's manual at hand, so that you can refer to it at any time.
Due to constant efforts to improve our products, certain procedures and specifications are subject to change without notice.

When ordering spare parts, always give us the **MODEL, PRODUCTION NUMBER (PROD No.)** and **SERIAL NUMBER (SER No.)** of your Product.

Please fill in the following blanks after checking the production number on your product.
(Location of label is different depending on the product model.)

PROD NO.									

SER NO.				



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NOTE Please refer to the illustrations on the back page of the front cover or back cover for Fig. ① to ⑥ indicated in the sentence.

1. SAFETY PRECAUTIONS

Please make sure you review each precaution carefully.

Pay special attention to statement preceded by the following words.

⚠ WARNING “WARNING” indicates a strong possibility of severe personal injury or loss of life if instructions are not followed.

⚠ CAUTION “CAUTION” indicates a possibility of personal injury or equipment damage if instructions are not followed.

⚠ WARNING

EN

Do not operate the generator near gasoline or gaseous fuel because of the potential danger of explosion or fire.

Do not fill the fuel tank with fuel while the engine is running. Do not smoke or use open flame near the fuel tank. Be careful not to spill fuel during refueling. If fuel is spilt, wipe it off and let dry before starting the engine.



⚠ WARNING

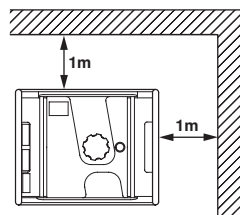
Do not place in flammables near the generator.

Be careful not to place fuel, matches, gunpowder, oily cloths, straw, trash, or any other in flammables near the generator.

⚠ WARNING

Do not operate the generator inside a room, cave, tunnel, or other insufficiently ventilated area. Always operate it in a well-ventilated area, otherwise the engine may become overheated, and the poisonous carbon monoxide gas contained in the exhaust gases will endanger human lives. Keep the generator at least 1 meter (3 feet) away from any structure or building during use.

If the generator must be used indoors, the area must be well-ventilated and extreme caution must be taken regarding the discharge of exhaust gases.



⚠ WARNING

Do not enclose the generator nor cover it with a box.

The generator has a built-in forced air cooling system, and may become overheated if it is enclosed.

If generator has been covered to protect it from the weather during non use, be sure to remove it and keep it well away from the area during generator use.

⚠ WARNING

Operate the generator on a level surface.

It is not necessary to prepare a special foundation for the generator.

However, the generator will vibrate on an irregular surface, so choose a level place without surface irregularities.

If the generator is tilted or moved during operation, fuel may spill and / or the generator may tip over, causing a hazardous situation.

Proper lubrication cannot be expected if the generator is operated on a steep incline or slope. In such a case, piston seizure may occur even if the oil is above the upper level.

⚠ WARNING

Pay attention to the wiring or extension cords from the generator to the connected device.

If the wire is under the generator or in contact with a vibrating part, it may break and possibly cause a fire, generator burnout, or electric shock hazard.

Replace damaged or worn cords immediately.



⚠ WARNING

Do not operate in rain, in wet or damp conditions, or with wet hands.
The operator may suffer severe electric shock if the generator is wet due to rain or snow.

⚠ WARNING

If wet, wipe and dry it well before starting. Do not pour water directly over the generator, nor wash it with water.

⚠ WARNING

Be extremely careful that all necessary electrical grounding procedures are followed during each and every use. Failure to do so can be fatal.

⚠ WARNING

Do not contact the generator to a commercial power line. Connection to a commercial power line may short circuit the generator and ruin it or cause electric shock hazard. Use the transfer switch for connecting to domestic circuit.

**⚠ WARNING**

No smoking while handling the battery. The battery emits flammable hydrogen gas, which can explode if exposed to electric arcing or open flame.
Keep the area well-ventilated and keep open flames/sparks away when handling the battery.

**⚠ WARNING**

Engine becomes extremely hot during and for some time after operation. Keep combustible materials well away from generator area.
Be very careful not to touch any parts of the hot engine especially the muffler area or serious burns may result.

**⚠ WARNING**

Keep children and all bystanders at a safe distance from work areas.

⚠ WARNING

It is absolutely essential that you know the safe and proper use of the power tool or appliance that you intend to use. All operators must read, understand and follow the tool/appliance owners manual. Tool and appliance applications and limitations must be understood. Follow all directions given on labels and warnings. Keep all instruction manuals and literature in a safe place for future reference.

⚠ WARNING

Use only "LISTED" extension cords.
When a tool or appliance is used outdoors, use only extension cords marked "For Outdoor Use". Extension cords, when not in use should be stored in a dry and well ventilated area.

⚠ WARNING

Always switch off generator's AC circuit breaker and disconnect tools or appliances when not in use, before servicing, adjusting, or installing accessories and attachments.

⚠ CAUTION

Make sure the engine is stopped before starting any maintenance, servicing or repair.
Make sure maintenance and repair of the generator set are performed by properly trained personnel only.

Symbols and Meanings

In accordance with the European requirements (eec Directives),the specified symbols as shown in the following table are used for the products and this instruction manual.

	Read the operator's instruction manual.		Fire, open light and smoking prohibited.
	Stay clear of the hot surface.		Do not connect the generator to the commercial power lines.
	Exhaust gas is poisonous. Do not operate in an unventilated room.		Do not operate in rain or snow.
	Stop the engine before refueling.		Call for maintenance.
	Caution, risk of electric shock.		Keep dry.
	HOT, avoid touching the hot area.		

	ON (power and Engine)		IN-position of a bistable push control		Engine start (Electric start)
○	OFF (power and Engine)		Protective earth (ground)		Engine stop
~	Alternating current		Fuse		Gasoline
==	Direct current		Engine oil		Fast
+	Plus ; positive polarity		Add oil		Slow
-	Minus ; negative polarity		Battery charging condition		Fuel start / Open
	OUT-position of a bistable push control		Choke ; cold starting aid		Fuel stop / Close

P_r	Rated power (kW)	COP	Continuous power	$\cos \phi_r$	Rated power factor
f_r	Rated frequency (Hz)	U_r	Rated voltage (V)	I_r	Rated current (A)
H_{max}	Maximum site altitude above sea-level (m)	T_{max}	Maximum ambient temperature (°C)	m	Mass (kg)

2. COMPONENTS (See Fig. ①)

NOTE

Please refer to the illustrations on the back page of the front cover or back cover for Fig. ① to ⑯ indicated in the sentence.

- ① CONTROL PANEL
- ② FUEL TANK
- ③ FUEL GAUGE
- ④ SIDE PANEL (R)
- ⑤ OIL DRAIN PLUG
- ⑥ RECOIL STARTER (HANDLE)
- ⑦ STOPPER
- ⑧ TANK CAP
- ⑨ SPARK PLUG CAP
- ⑩ AIR CLEANER
- ⑪ FUEL STRAINER
- ⑫ BATTERY [Electric starter model]
- ⑬ OIL GAUGE (OIL FILLER)
- ⑭ SIDE PANEL (L)
- ⑮ EXHAUST OUTLET
- ⑯ FUSE

3. PRE-OPERATION CHECKS

(See Fig. ②)

1. CHECK ENGINE OIL (See Fig. ②-①,②)

Before checking or refilling oil, be sure generator is located on stable and level surface with engine stopped.

- Remove oil filler cap and check the engine oil level.(See Fig. ②-①)

- ① OIL GAUGE
- ② OIL FILLER
- ③ UPPER LEVEL
- ④ LOWER LEVEL

- If oil level is below the lower level line, refill with suitable oil (see table) to upper level line. Do not screw in the oil filler cap when checking oil level.(See Fig. ②-②)

- ① UPPER LEVEL
- ② LOWER LEVEL

- Change oil if contaminated.
(See "How-To" Maintenance.)

Oil capacity (Upper level) :	(L)
RG2800iS	0.6
RG3200iS	0.6
RG4300iS	1.0

Recommended engine oil:

Use 4-stroke automotive detergent oil of API service class SE or highergrade (SG, SH or SJ is recommended). SAE 10W-30 or 10W-40 is recommended for general, all-temperature use. If single viscosity oil is used, select the appropriate viscosity for the average temperature in your area.

Single grade	5W																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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EN

2. CHECK ENGINE FUEL (See Fig. ②-③,④)

⚠ WARNING


Do not refuel while smoking or near open flame or other such potential fire hazards. Otherwise fire accident may occur.

- Check fuel level at fuel level gauge.
(See Fig. ②-④)
 - ① EMPTY (E)
 - ② FULL (F)
 - ③ "LEVEL" MARK
 - ④ FUEL LEVEL LINE
- If fuel level is low, refill with unleaded automotive gasoline.
- Be sure to use the fuel filter screen on the fuel filter neck.(See Fig. ②-③)
 - ① FUEL FILTER SCREEN
 - ② TANK CAP

Fuel tank capacity :	(L)
RG2800iS	10.8
RG3200iS	10.8
RG4300iS	12.8

⚠ WARNING

Make sure you review each warning in order to prevent fire hazard.

- **Do not refill tank while engine is running or hot.**
- **Before filling fuel, turn the engine switch into "  "(Fuel stop/close) position.**
- **Be careful not to admit dust, dirt, water or other foreign objects into fuel.**
- **Wipe off spilt fuel thoroughly before starting engine.**
- **Keep open flames away.**

EN

3. CHECKING COMPONENT PARTS

Check following items before starting engine:

- Fuel leakage from fuel hose, etc.
- Bolts and nuts for looseness.
- Components for damage or breakage.
- Generator not resting on or against any adjacent wiring.

4. CHECK GENERATOR SURROUNDINGS.

⚠ WARNING

Make sure you review each warning in order to prevent fire hazard.

- **Keep area clear of inflammables or other hazardous materials.**
- **Keep generator at least 1 meter away from buildings or other structures.**
- **Only operate generator in a dry, well ventilated area.**
- **Keep exhaust pipe clear of foreign objects.**
- **Keep generator away from open flame. No smoking!**
- **Keep generator on a stable and level surface.**
- **Do not block generator air vents with paper or other material.**

5. GROUNDING THE GENERATOR

- To ground the generator to the earth, connect the grounding lug of the generator to the grounding spike driven into the earth or to the conductor which has been already grounded to the earth. (See Fig. [\[2\]-5](#))

① GROUNDING SPIKE

- If such grounding conductor or grounding electrode is unavailable, connect the grounding lug of the generator to the grounding terminal of the using electric tool or appliance. (See Fig. [\[2\]-6](#))

① GROUND TERMINAL

6. NOTES ON INSTALLATION

- Always be sure to place the generator on a level surface, locking the wheel with the stopper and/or chocking the wheels. (See Fig. [\[2\]-7](#))

① STOPPER

② UNLOCK

③ LOCK

4. OPERATING PROCEDURES

(See Fig. ③,④)

1. STARTING THE GENERATOR

⚠ CAUTION

Check the oil level before each operations as outlined on page 5.

- (a) Make sure the appliance is disconnected.
- (b) Turn engine switch to "N" (CHOKE) position.
(When engine is warm or temperature is high, start engine with the switch at "O" (OPEN) position.) (See Fig. ③-①)

① "O" (CLOSE)

② "N" (CHOKE)

⚠ CAUTION

- Do not connect defective appliances including lines and plugs.
- Be sure appliances are not connected to generator when starting up. Starting the generator with an appliance connected could result in damage to the generator and/or appliance and in personal injury.

(c) [Recoil starter model]

Pull the starter handle slowly until passing the compression point (resistance will be felt), then return the handle to its original position and pull briskly. (See Fig. ③-②)

① RECOIL STARTER HANDLE

② PULL BRISKLY

- (d) After starting, allow the starter handle to return to its original position with the handle still in your hand.

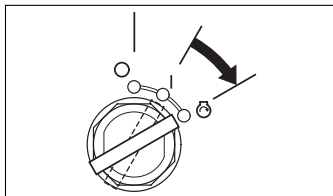
NOTE

When engine fails to start after several attempts, repeat the starting procedures mentioned above with the engine switch placed at "O" (OPEN) position.

(e) [Electric starter model]

Insert the key into the key switch and turn it clockwise to the "I" (ON) position to start the engine.

Then turn the key further to the "S" (START) position. The engine will be started by starting motor.



⚠ CAUTION

- Do not run the starting motor over 5 seconds continuously. If the engine fails to start, return the key to the "I" (ON) position and wait about 10 seconds then start again.
- Do not turn the key switch to "S" (START) position when the engine is running to prevent damage of starting motor.
- When starting the engine by recoil starter, set the key switch at the "I" (ON) position and pull the starter handle.

- (f) After 20 to 30 seconds of warm-up is completed, turn the engine switch to "O" (OPEN) position. (See Fig. ③-③)

① "N" (CHOKE)

② "O" (OPEN)

- (g) By changing over the LE display in the multi monitor into the "voltage" indication, make sure the generating voltage is the normal level (approx. 230V).

NOTE

If no generating condition is found out, please consult nearest ROBIN dealer.

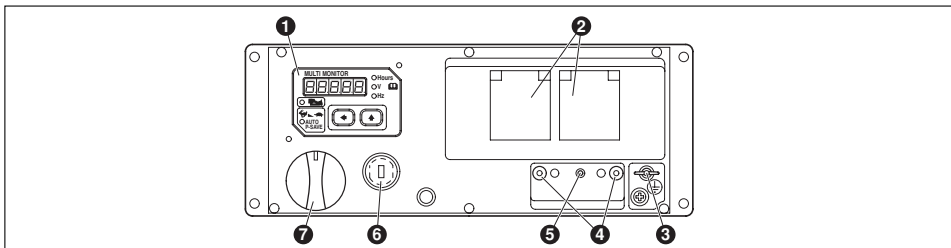
EN

2. USING ELECTRIC POWER

⚠ WARNING

- Make sure that the appliance is switched OFF before connecting it to the generator.
- Do not move the generator while it is running.
- Be sure to ground the generator if the connected appliance is grounded. Failure to ground unit may lead to electrical shock.

(1) CONTROL PANEL



- | | | |
|-------------------|---------------------------------------|-----------------|
| ① MULTI MONITOR | ④ DC TERMINALS | ⑦ ENGINE SWITCH |
| ② AC RECEPTACLES | ⑤ DC CIRCUIT BREAKER | |
| ③ GROUND TERMINAL | ⑥ KEY SWITCH [Electric starter model] | |

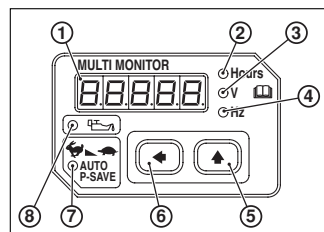
MULTI MONITOR

NOTE:

Multi monitor is not a presised instrumentation, and so the indication on the LE display is for the reference.

① LE display

Operation hour, voltage and frequency are indicated in turns by means of depressing the LE display changeover switch. In addition, "O_Lod" (overload) will be indicated when the generator is in the overload condition or appliance(s) will be out of order. In this case, stop the engine immediately and check the appliance and/or generator for overloading. After the check and remedy, restarting the engine will resume displaying in the normal manner.



② Operation hour lamp

Lamp (red) is turned on when changing over into operation hour indication in the LE display.

③ Voltage lamp

Lamp (red) is turned on when changing over into voltage indication in the LE display.

④ Frequency lamp

Lamp (red) is turned on when changing over into frequency indication in the LE display.

⑤ LE display changeover switch

When depressing this switch, indication in LE display is changed over in turns; operation hour → voltage → frequency → operation hour.

When starting the engine, operation hour is indicated in LE display at first.

⑥ Auto-power saving switch

When depressing this switch, auto-power saving function is activated.

However, auto-power saving function is not activated in case of high-load condition.

⑦ Auto-power saving lamp

Lamp (green) is turned on while auto-power saving function is activated.

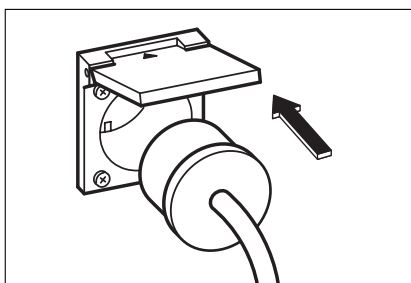
⑧ Engine oil level warning lamp

When the engine oil level is lower than the specified level, the lamp is turned on.

Then engine will be stopped.

(2) AC APPLICATION

- Make sure the voltage indicated in the LE display is the normal level (approx. 230V).
 - This generator is thoroughly tested and adjusted in the factory.
If the generator does not produce the specified voltage, consult your nearest Robin dealer or service shop.
- Turn off the switch(es) of the electrical appliance(s) before connecting to the generator.
- Insert the plug(s) of the electrical appliance(s) into the receptacle.



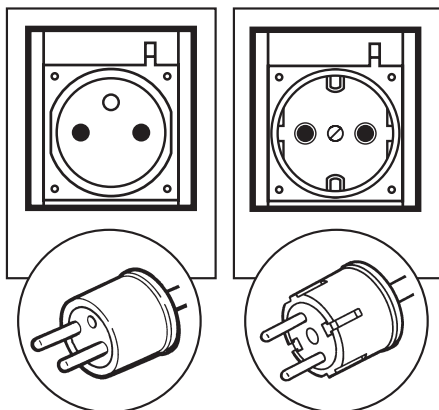
⚠ WARNING

- Be sure to ground the generator if the connected electrical device is grounded.
- Failure to ground unit could lead to electrical shock.

- Check the amperage of the receptacles, and be sure not to take a current exceeding the specified amperage.
- Be sure that the total wattage of all appliances does not exceed the rated output of the generator.

⚠ CAUTION

Do not put foreign objects into the plug receptacle.



EN

NOTE

When the "O_Lod" (overload) is indicated in the LE display, AC output is cut off on the grounds that the generator operation is in overload condition or appliance(s) will be out of order. In this case, stop the engine immediately and check the appliance and/or generator for overloading. After the check and remedy, restarting the engine will resume displaying in the normal manner.

- Turn on the switch of the appliance.

(3) DC APPLICATION (See Fig. 4-②)

The DC terminal is used only for charging 12 volt batteries.

It provides up to 12V-8.3A (100W) of maximum power.

- Positive terminal (RED)
- Negative terminal (BLACK)





CONNECTION OF CABLE :

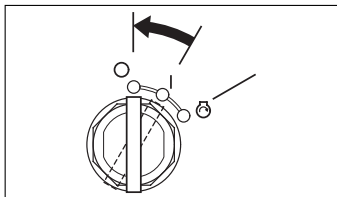
- Connect positive terminal (red) on generator to positive (+) terminal on battery.
- Connect negative terminal (black) on generator to negative (-) terminal on battery.

SAFETY PRECAUTIONS WHILE CHARGING

- An explosive hydrogen gas is discharged through vent holes in the battery during the charging process. Do not allow spark or open flame around the generator or battery during the charging process.
- Electrolyte fluid can burn eyes and clothing. Be extremely careful to avoid contact. If injured, wash the affected area immediately with large quantities of water and consult a doctor for treatment.
- When charging a large capacity battery or totally discharged battery, excessive current may force the DC circuit breaker to turn off. In such cases, use a battery charger to charge a large battery with AC output.
- Battery defects may cause the DC circuit breaker to turn off. Check the battery before replacing the DC circuit breaker.

3. STOPPING THE GENERATOR

- (a) Turn off the power switch of the electric equipment and unplug the cord from receptacle of the generator.
- (b) Allow the engine about 3 minutes to cool down at no load before stopping.
- (c) Turn the engine switch to the position "  " (CLOSE). (See Fig. 4-3)
- ① "  " (OPEN) ② "  " (CLOSE)
- (d) [Electric starter model]
Turn the key switch to the "  " (OFF) position.



4. OIL SENSOR (See Fig. 4-4)

① OIL SENSOR

- (a) The oil sensor detects the fall in oil level in the crankcase and automatically stops the engine when the oil level falls below a predetermined level.
- (b) When engine has stopped automatically, switch off generator's AC circuit breaker, and check the oil level. Refill engine oil to the upper level as instructed on page 5 and restart the engine.

- (c) If the engine does not start by usual starting procedures, check the oil level.

⚠ CAUTION

Do not remove OIL SENSOR PROBE when refilling with oil.
Remove oil filler cap on the opposite side of carburetor.

5. WATTAGE INFORMATION

Some appliances need a "surge" of energy when starting. This means that the amount of electrical power needed to start the appliance may exceed the amount needed to maintain its use.

Electrical appliances and tools normally come with a label indicating voltage, cycles / Hz, amperage (amps) and electrical power needed to run the appliance or tool.

Check with your nearest dealer or service center with questions regarding power surge of certain appliances or power tools.

- Electrical loads such as incandescent lamps and hot plates require the same wattage to start as is needed to maintain use.
- Loads such as fluorescent lamps require 1.2 to 2 times the indicated wattage during start-up.
- Loads for mercury lamps require 2 to 3 times the indicated wattage during start-up.
- Electrical motors require a large starting current. Power requirements depend on the type of motor and its use. Once enough "surge" is attained to start the motor, the appliance will require only 50% to 30% of the wattage to continue running.
- Most electrical tools require 1.2 to 3 times their wattage for running under load during use. For example, a 5000 watt generator can power a 1800 to 4000 watt electrical tool.
- Loads such as submersible pumps and air compressors require a very large force to start. They need 3 to 5 times the normal running wattage in order to start. For example, a 5000 watt generator would only be able to drive a 1000 to 1700 watt pump.

NOTE

The following wattage chart is general guide only. Refer to your specific appliance for correct wattage.

To determine the total wattage required to run a particular electrical appliance or tool, multiply the voltage figure of the appliance/tool by the amperage (amps) figure of same. The voltage and amperage (amps) information can be found on a name plate which is normally attached to electrical appliances and tools.

Applications	Applicable Wattage (approx. W)		
	RG2800iS	RG3200iS	RG4300iS
	50Hz		
Incandescent lamp, Heater	2500	2800	3800
Fluorescent lamp, Electric tool	1300	1400	1900
Mercury lamp	800	1000	1600
Pump, Compressor	500	600	800

EN**VOLTAGE DROP IN ELECTRIC EXTENSION CORDS**

When a long electric extension cord is used to connect an appliance or tool to the generator, a certain amount of voltage drop or loss occurs in the extension cord which reduces the effective voltage available for the appliance or tool.

The chart below has been prepared to illustrate the approximate voltage loss when an extension cord of 100 meters is used to connect an appliance or tool to the generator.

Nominal cross section	A.W.G.	Allowable current	No.of strands / strands dia.	Resistance	Current Amp.								Voltage drop
mm²	No.	A	No./mm	Ω/100m	1A	3A	5A	8A	10A	12A	15A		
0.75	18	7	30/0.18	2.477	2.5V	8V	12.5V	—	—	—	—		
1.27	16	12	50/0.16	1.486	1.5V	5V	7.5V	12V	15V	18V	—		
2.0	14	17	37/0.26	0.952	1V	3V	5V	8V	10V	12V	15V		
3.5	12 to 10	23	45/0.32	0.517	—	1.5V	2.5V	4V	5V	6.5V	7.5V		
5.5	10 to 8	35	70/0.32	0.332	—	1V	2V	2.5V	3.5V	4V	5V		

6. MAINTENANCE SCHEDULE

DAILY	<ul style="list-style-type: none">■ Check oil level.■ Check all components according to "PRE-OPERATION CHECKS."
EVERY 50 HOURS	<ul style="list-style-type: none">■ Wash cleaner element. -more often if used in dirty or dusty environments.■ Check spark plug, clean if necessary.
EVERY 100 HOURS	<ul style="list-style-type: none">■ Change engine oil. *-more often if used in dusty or dirty environments.
EVERY 200 HOURS	<ul style="list-style-type: none">■ Adjust spark plug gap.■ Clean fuel strainer.
EVERY 500 HOURS	<ul style="list-style-type: none">■ Replace spark plug and cleaner element.■ Clean and adjust carburetor, valve clearance, and valve seat along with cylinder head.
EVERY 1,000 HOURS (24 MONTHS)	<ul style="list-style-type: none">■ Inspect control panel parts.■ Check rotor and starter.■ Replace engine mount rubber.■ Overhaul engine.■ Change fuel lines.

NOTE : (*)

- Initial oil change should be performed after first twenty (20) hours of use. Thereafter change oil every 100 hours.
- Before changing the oil, check for a suitable way to dispose of the old oil.
Do not pour it down sewage drains, onto garden soil or into open streams.
Your local zoning or environmental regulations will give you more detailed instructions on proper disposal.

7. "HOW-TO" MAINTENANCE

(See Fig. ⑤)

⚠ CAUTION

Make sure the engine is stopped before starting any maintenance, servicing or repair.

NOTE

It is recommended to use ear protection when performing operation, maintenance and repair of the generator set.

1. SIDE PANEL (L.R.) (See Fig. ⑤-①)

To access the following items for servicing, take the applicable side panel out by removing the screw with screwdriver or coin.

LH-side panel ---- Oil level gauge, Air cleaner, Spark plug, Battery etc.

RH-side panel ---- Oil drain screw etc.

2. ENGINE OIL CHANGE (See Fig. ⑤-②)

- Change engine oil every 50 hours.
(For new engine, change oil after 20 hours.)

- (a) Drain oil by removing the drain plug and the oil filler cap while the engine is warm.

① OIL DRAIN PLUG

- (b) Reinstall the drain plug and fill the engine with oil until it reaches the upper level on the oil filler cap.

- Use fresh and high quality lubricating oil to the specified level as directed on page 5.
If contaminated or deteriorated oil is used or the quantity of the engine oil is not sufficient, the engine damage will result and its life will be greatly shortened.

3. SERVICING THE AIR CLEANER (See Fig. ⑤-③)

Maintaining an air cleaner in proper condition is very important.

Dirt induced through improperly installed, improperly serviced or inadequate elements damages and wears out engines. Keep the element always clean.

- (a) Unhook the cover and remove the cleaner element.

① ② ELEMENT (Urethane form)

- (b) Urethane form : Wash the element with fresh water. Squeeze out the water then dry the element. (Do not twist.)

4. CLEANING AND ADJUSTING SPARK PLUG (See Fig. ⑤-④,⑤)

- (a) If the plug is contaminated with carbon, remove it using a plug cleaner or wire brush.

- (b) Adjust the electrode gap to 0.6 to 0.7 mm.

- ① SPARK PLUG
- ② PLUG WRENCH
- ③ SPARK PLUG CAP

Spark plug : BR-6HS (NGK)

When replacing with new spark plug, use the above-recommended one.

If not available by all means, make sure to replace with equivalent one of resistance type.

5. CLEANING FUEL STRAINER (See Fig. ⑤-⑥)

Dirt and water in the fuel are removed by the fuel strainer.

① FUEL STRAINER CUP

- (a) Remove the strainer cup and throw away water and dirt.
- (b) Clean the screen and strainer cup with gasoline.
- (c) Tightly fasten the cup to main body, making sure to avoid fuel leak.

6. BATTERY INSTALLATION

Recommended Battery

Lead-acid battery :

RG2800iS / 3200iS

A capacity of 12V-6A·h or larger.

RG4300iS

A capacity of 12V-12A·h or larger.

- (a) Attach terminals to a lead-acid battery already charged. Mount the battery onto the position as specified below, with its terminals facing inward.
- (b) Insert each long bolt through the specified hole, its tip pointing outward.
- (c) Put the supporting arm on the long bolts and tighten with the butterfly nuts.
(Push the lead-acid battery all the way inward.)

- (d) Arrange the wiring so that it won't be damaged by possible vibration caused by the engine.
- (e) Only after checking that the engine's starter key is in the "OFF" position, securely connect the red cable, to the positive (+) terminal. And then connect the other cable to the negative (-) terminal.

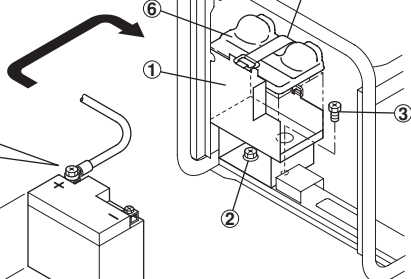
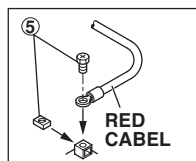
Red cable : to the positive (+) terminal

Black cable : to the negative (-) terminal

⚠ CAUTION

Should the connection be made in incorrect manner, the engine will be broken.

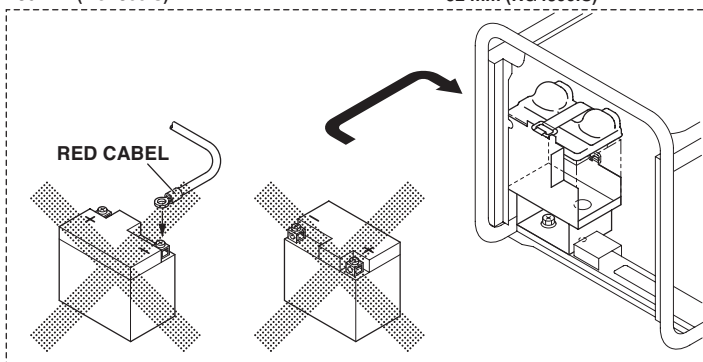
- ① Battery Base
 - ② Flange Bolt
 - ③ Screw
 - ④ Battery Band
 - ⑤ Bolt and Nut
 - ⑥ Battery cover
- Accessory parts



LESS THAN
131 mm (RG2800iS / 3200iS)
162 mm (RG4300iS)

LESS THAN
114 mm (RG2800iS / 3200iS)
136 mm (RG4300iS)

LESS THAN
71 mm (RG2800iS / 3200iS)
82 mm (RG4300iS)



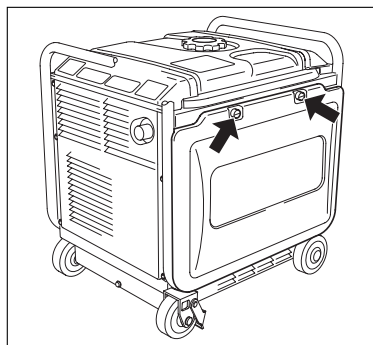
8. HOW TO REPLACE FUSES

⚠ CAUTION

- Make sure the engine is stopped before starting any maintenance, servicing or repair.
- Please adjust the key switch to the stop position.
It might be short for driving and the start position and dangerous.
- Please exchange it for the fuse of specified capacity. It leads to the breakdown when fuses other than specification are used.
- Please never use the wire and the copper wire, etc. instead of the fuse.
It causes overheating and damaging by a fire wiring.

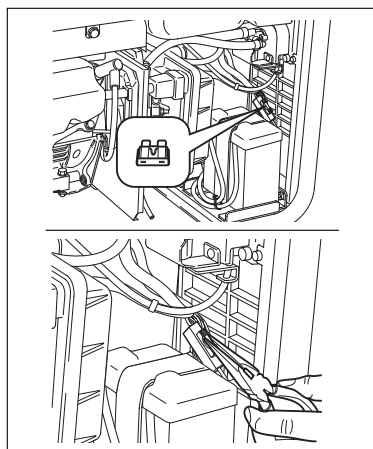
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- (1) Remove two bolts and take side panel (L) out.



- (2) Remove the fuse and replace with new one.

Specified Fuses	15A
-----------------	-----



- (3) Engaging the lower end of the side panel (L) with the frame securely, attach the side panel (L) to the frame and secure with two bolts.

9. PERIODIC OPERATION AND INSPECTION

When furnishing the generator as emergency electric power source, periodic operation and inspection are needed.

Fuel (gasoline) and engine oil will be deteriorated with time, and this causes that the engine is difficult to start and as the results improper engine operation and fault.

⚠ CAUTION

Since the fuel (gasoline) will be deteriorated with time, replace fuel (gasoline) with fresh one periodically; once every three (3) months is recommended.

- (a) Check the fuel (gasoline), engine oil and air cleaner.
- (b) Start engine.
- (c) With appliance such as lightings activated, run the engine for over ten minutes.
- (d) Check for the following items;
 - Proper engine running.
 - Adequate output and the indicator lamp turned on properly.
 - The engine switch normally operated.
 - No leakage of engine oil and fuel (gasoline).

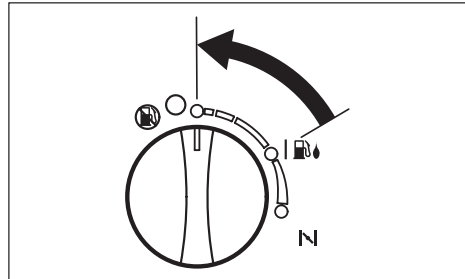
10. TRANSPORTING

When transporting the generator, make sure that the fuel (gasoline) should be drained from the tank.

⚠ WARNING

- To prevent fuel spillage due to the vibration and impact, never transport the generator with the fuel (gasoline) filled in the tank.
- Secure the tank cap thoroughly.
- To avoid the risk of the gasoline flammability, never leave the generator in an area exposed to direct sunlight or high temperatures for a long time.
- Keep the fuel (gasoline) in the exclusive gasoline storage tank made by steel when transporting.

- (a) Turn the engine switch to the "🚫" (CLOSE) position.



- (b) Drain the fuel from the tank.
- (c) Secure the tank cap.

⚠ CAUTION

- Do not place any heavy objects on the generator.
- Select and place the generator in the proper position of the transport vehicle so that the generator not be moved or fallen down.
Fix the generator with rope as necessary.

11. PREPARATION FOR STORAGE (See Fig. 6)

The following procedures should be followed prior to storage of your generator for periods of 6 months or longer.

- Drain fuel from fuel tank carefully by disconnecting the fuel line.
Gasoline left in the fuel tank will eventually deteriorate making engine-starting difficult.
- Remove the drain screw of the carburetor. (See Fig. 6-1)
 - ❶ DRAIN SCREW
- Change engine oil.
- Check for loose bolts and screws, tighten them if necessary.
- Clean generator thoroughly with oiled cloth. Spray with preservative if available. NEVER USE WATER TO CLEAN GENERATOR !
- Pull starter handle until resistance is felt, leaving handle in that position.
- Store generator in a well ventilated, low humidity area.

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12. TROUBLESHOOTING

When generator engine fails to start after several attempts, or if no electricity is available at the output socket, check the following chart. If your generator still fails to start or generate electricity, contact your nearest Robin dealer or service shop for further information or corrective procedures.

When Engine Fails to Start:

Check if engine switch is in its proper position.	↔	Turn engine switch to "N" (CHOKE) position.
Check fuel level.	↔	If empty, refill fuel tank making sure not to overfill.
Check to make sure generator is not connected to an appliance.	↔	If connected, turn off the power switch on the connected appliance and unplug.
Check spark plug for loose spark plug cap.	↔	If loose, push spark plug cap back into place.
Check spark plug for contamination.	↔	Remove spark plug and clean electrode.
Check if the recommended spark plug would be adopted.	↔	If not, replace with the recommended spark plug. If the recommended spark plug is not available by all means, make sure to replace with equivalent one of resistance type.
Check engine oil level.	↔	If the engine oil level is low, add the oil to the upper level line on the oil gauge.

When No Electricity Is Generated at Receptacle:

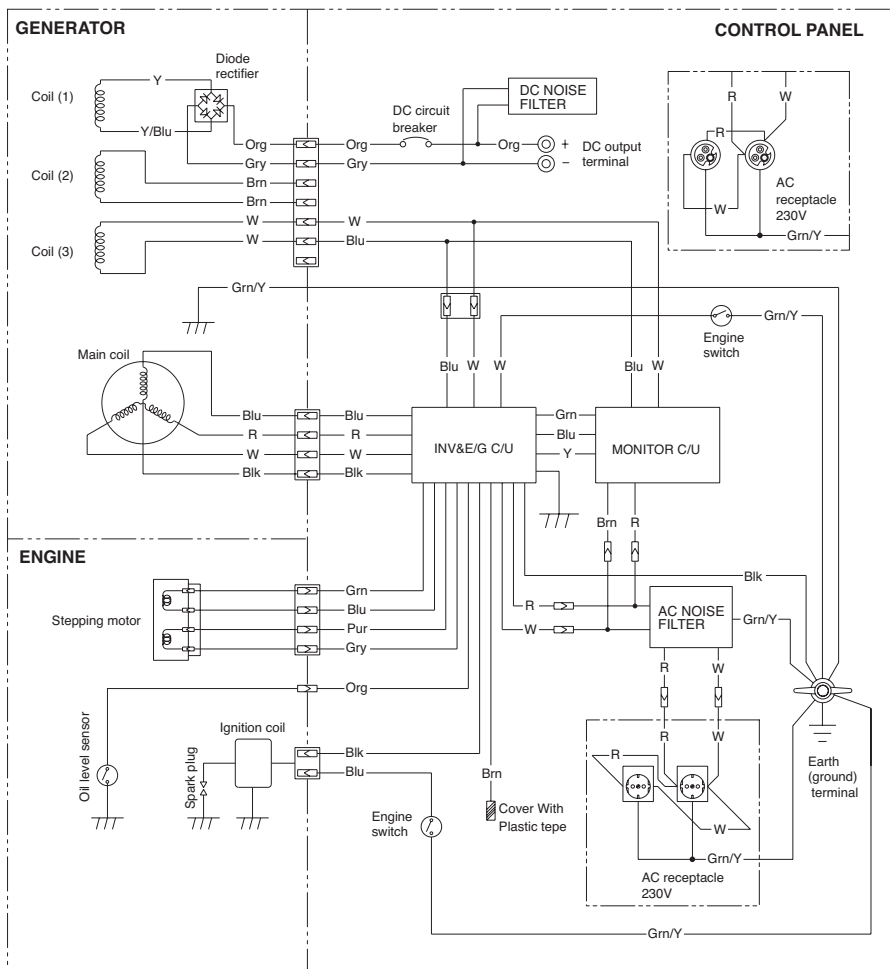
Check if the "O_Lod"(overload) is indicated in the Multi Monitor.	↔	Stop the engine and check the appliance and/or generator for overloading.
Check if the DC circuit breaker is turned OFF.	↔	Depress the circuit breaker into "I" (ON) position, after making sure the charging current level is proper and the battery is in the normal condition.
Check AC receptacle and DC terminals for loose connection.	↔	Secure connection if necessary.
Check to see if engine starting was attempted with appliances already connected to generator.	↔	Turn off switch on the appliance, and disconnect cable from receptacle. Reconnect after generator has been started properly.

13. SPECIFICATIONS

MODEL			RG2800iS	RG3200iS	RG4300iS
Alternator	Type		Inverter		
	Frequency Hz		50		
	Rated voltage V		230		
	Maximum output	kVA	2.8	3.2	4.3
	Rated output	kVA	2.5	2.8	3.8
	Rated power factor		1.0		
	DC output V-A		12 – 8.3		
	Over current protector	DC	No-fuse Breaker		
AC		Electronic Breaker			
Engine	Model		EX17	EX21	EX27
	Type		Forced air-cooled, 4-cycle, OHC Gasoline Engine		
	Displacement	mL	169	211	265
	Fuel		Automotive Unleaded Gasoline		
	Fuel tank capacity	L	10.8		12.8
	Rated continuous operation [Approx.]	hours	7.6	6.5	5.3
	Starting system		Recoil	Electric starter / Recoil	
Dimension	Length	mm	537		580
	Width	mm	482		527
	High	mm	583		618
Dry weight		kg	54	59	74

14. WIRING DIAGRAM

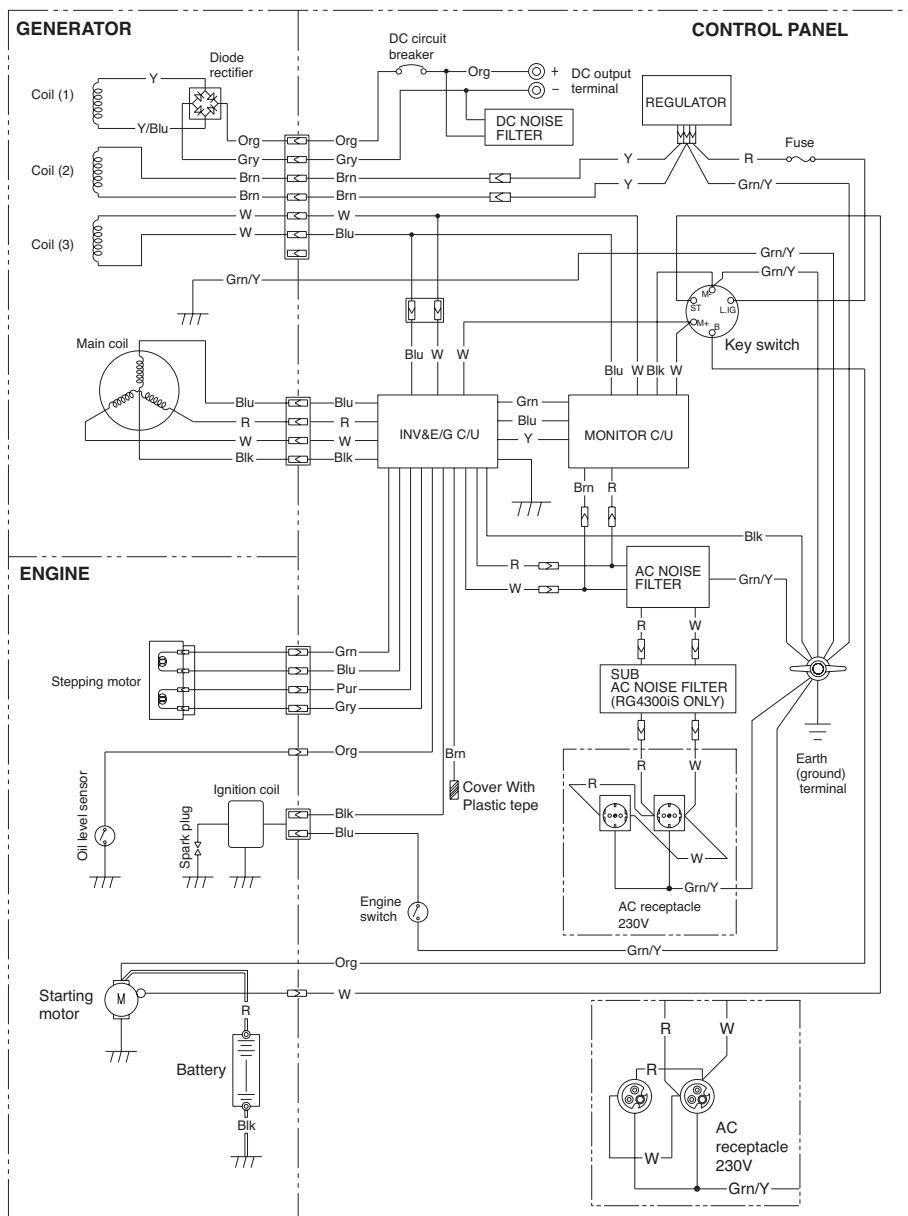
RG2800iS (50Hz-230V) [Recoil starter model]



Wiring color cord

Blk : Black	Grn : Green	Org : Orange	W : White
Blu : Blue	Grn/Y : Green/Yellow	Pur : Purple	Y : Yellow
Brn : Brown	Gry : Gray	R : Red	Y/Blu : Yellow/Blue

RG3200iS / 4300iS (50Hz-230V) [Electric starter model]



Wiring color cord

Blk : Black	Grn : Green	Org : Orange	W : White
Blu : Blue	Grm/Y : Green/Yellow	Pur : Purple	Y : Yellow
Brn : Brown	Gry : Gray	R : Red	Y/Blu : Yellow/Blue

(EN) [appendix]

Instructions for treatment as waste

When disposing this product ,make sure that the fuel and oil should be drained from the engine ,and submit to local regulations.

(FR) [Annexe]

Instructions pour le traitement des déchets

Quand ce produit doit être mis au rebut, s'assurer que le carburant et l'huile ont été vidangés correctement à partir du moteur, et que les règlements locaux sont bien observés.

(DE) [Anhang]

Anweisungen für die Behandlung als Abfall

Bei der Entsorgung dieses Produkts sicherstellen, dass der Kraftstoff und das Öl aus dem Motor abgelassen wird und unter Befolgung aller örtlich gültigen Bestimmungen entsorgt wird.

(NL) [aanhangsel]

Instructies voor afvalverwerking

Wanneer u dit product weggooit, moet u ervoor zorgen dat alle brandstof en olie uit de motor verwijderd is en dient u zich te houden aan de ter plaatse geldende regelgeving.

(ES) [anexo]

Instrucciones para el tratamiento de los residuos

Quando este producto debe ponerse al rechazo, asegurarse de que el combustible y el aceite se purgaran correctamente a partir del motor, y que se observan bien los reglamentos locales.

(IT) [appendix]

Istruzioni per lo smaltimento

Per lo smaltimento di questo prodotto, assicurarsi di aspirare il carburante e l'olio dal motore, in conformità con le regolamentazioni locali.

(PT) [apêndice]

Instruções para tratamento como resíduo

Quando eliminar este produto, assegure-se de que o combustível e o óleo são escoados do motor e sujeitos às regulamentações locais.

(GR) [Προσάρτημα]

Οδηγίες για επεξεργασία ως απόβλητα

Όταν απορρίπτετε αυτό το προϊόν, βεβαιωθείτε ότι τα καύσιμα και τα λιπαντικά έχουν αδειάσει από τη μηχανή και τηρήστε τους τοπικούς κανονισμούς.

(NO) [vedlegg]

Instruksjoner for behandling av avfall

Når dette produktet kasseres, må man påse at drivstoffet og oljen tømmes fra motoren og behandles ifølge lokale renovasjonsforskrifter.

(SE) [appendix]

Anvisningar för avfallshantering

När denna produkt ska kasseras, se då till att bränslet och oljan töms ur motorn, och att lokala bestämmelser efterföljs.

(FI) [LIITE]

Ohjeita jätteiden käsittelyä

Hävittäessäsi tätä tuotetta muista, että polttoaine ja öljy täytyy tyhjentää moottorista. Muista myös noudattaa paikallisia säääöksiä.

(DK) [tillæg]

Anvisninger for behandling af affald

Når du bortskaffer dette produkt, bedes du sikre dig, at motoren tømmes for brændstof og olie og afhændes i henhold til lokale regler.

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