



A Few Words About Safety **SERVICE INFORMATION**

The service and repair information contained in this manual is intended for use by qualified, professional technicians. Attempting service or repairs without the proper training, tools, and equipment could cause injury to you and/or others. It could also damage this Honda product or create an unsafe condition.

This manual describes the proper methods and procedures for performing service, maintenance, and repairs. Some procedures require the use special tools. Any person who intends to use a replacement part, service procedure, or a tool that is not recommended by Honda must determine the risks to their personal safety and the safe operation of this product.

If you need to replace a part, use Honda Genuine parts with the correct part number or an equivalent part. We strongly recommend that you do not use replacement parts of inferior quality.

For Your Customer's Safety

Proper service and maintenance are essential to the customer's safety and the reliability of this product. Any error or oversight while servicing this product can result in faulty operation, damage to the product, or injury to others.

AWARNING

Improper service or repairs can create an unsafe condition that can cause your customer or others to be seriously hurt or killed.

Follow the procedures and precautions in this manual and other service materials carefully.

For Your Safety

Because this manual is intended for the professional service technician, we do not provide warnings about many basic shop safety practices (e.g., Hot parts-wear gloves). If you have not received shop safety training or do not feel confident about your knowledge of safe servicing practices, we recommend that you do not attempt to perform the procedures described in this manual.

Some of the most important general service safety precautions are given below. However, we cannot warn you of every conceivable hazard that can arise in performing service and repair procedures. Only you can decide whether or not you should perform a given task.

Important Safety Precautions

Make sure you have a clear understanding of all basic shop safety practices and that you are wearing appropriate clothing and using safety equipment. When performing any service task, be especially careful of the following:

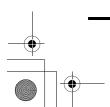
- Read all of the instructions before you begin, and make sure you have the tools, the replacement or repair parts, and the skills required to perform the tasks safely and completely.
- Protect your eyes by using proper safety glasses, goggles, or face shields anytime you hammer, drill, grind, or work around pressurized air, pressurized liquids, springs, or other stored-energy components. If there is any doubt, put on eye protection.
- Use other protective wear when necessary, for example gloves or safety shoes. Handling hot or sharp parts can cause severe burns or cuts. Before you grab something that looks like it can hurt you, stop and put on gloves.
- Protect yourself and others whenever you have equipment hoisted in the air. Anytime you lift this product with a hoist, make sure that the hoist hook is securely attached to the product.

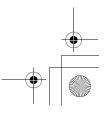
Make sure the engine is off before you begin any servicing procedures, unless the instruction tells you to do otherwise. This will help eliminate several potential hazards:

- Carbon monoxide poisoning from engine exhaust. Be sure there is adequate ventilation whenever you run the engine.
- Burns from hot parts. Let the engine and exhaust system cool before working in those areas.
- Injury from moving parts. If the instruction tells you to run the engine, be sure your hands, fingers and clothing are out of the way.

Gasoline vapors and hydrogen gasses from batteries are explosive. To reduce the possibility of a fire or explosion, be careful when working around gasoline or batteries.

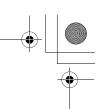
- Use only a nonflammable solvent, not gasoline, to clean parts.
- Never store gasoline in an open container.
- Keep all cigarettes, sparks, and flames away from the battery and all fuel-related parts.











INTRODUCTION

This supplement covers the construction, function and servicing procedures of the Honda GX240R2/RT2/T2/U2/UT2 and GX340R2/RT2/T2/U2/UT2 engines. For service information that is not covered in this supplement, please refer to the GX390RT2/T2/UT2 base shop manual (part number 62Z5F00) and GX270T2/UT2 supplement (part number 62Z5F00Z).

All information contained in this manual is based on the latest product information available at the time of printing. We reserve the right to make changes at anytime without notice.

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As you read this manual, you will find information that is preceded by a **NOTICE** symbol. The purpose of this message is to help prevent damage to this Honda product, other property, or the environment.

SAFETY MESSAGES

Your safety and the safety of others are very important. To help you make informed decisions, we have provided safety messages and other safety information throughout this manual. Of course, it is not practical or possible to warn you about all the hazards associated with servicing these products. You must use your own good judgement.

You will find important safety information in a variety of forms, including:

- · Safety Labels on the product.
- Safety Messages preceded by a safety alert symbol
 and one of three signal words, DANGER,

WARNING, or CAUTION. These signal words mean:

ADANGER

You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.

AWARNING

You CAN be KILLED or SERIOUSLY
HURT if you don't follow instructions.

ACAUTION You CAN be HURT if you don't follow instructions.

 Instructions – how to service these products correctly and safely.

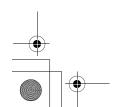
OUTLINE OF CHANGES

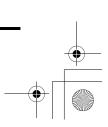
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The marked sections contain no changes.
They are not covered in this supplement.

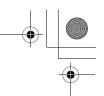
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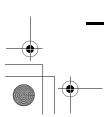


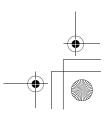
SYMBOLS

The symbols used throughout this manual show specific service procedures. If supplementary information is required pertaining to these symbols, it will be explained specifically in the text without the use of the symbols.

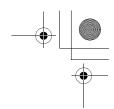
| place the part(s) with new one(s) before assembly. |
|--|
| e the recommend engine oil, unless otherwise specified. |
| e molybdenum oil solution (mixture of the engine oil and molybdenum grease in a ratio of 1:1). |
| e multi-purpose grease (lithium based multi-purpose grease NLGI #2 or equivalent). |
| e marine grease (water resistant urea based grease). |
| ply a locking agent. Use a medium strength locking agent unless otherwise specified. |
| ply sealant. |
| e automatic transmission fluid. |
| licates the diameter, length, and quantity of metric bolts used. |
| licates the reference page. |
| |









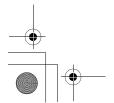


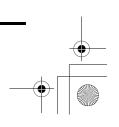
ABBREVIATIONS

Throughout this manual, the following abbreviations are used to identify the respective parts or systems.

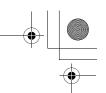
| Abbreviated term | Full term |
|------------------|---|
| ACG | Alternator |
| A/F | Air Fuel Ratio |
| API | American Petroleum Institute |
| Approx. | Approximately |
| Assy. | Assembly |
| ATDC | After Top Dead Center |
| ATF | Automatic Transmission Fluid |
| ATT | Attachment |
| BAT | Battery |
| BDC | Bottom Dead Center |
| BTDC | Before Top Dead Center |
| BARO | Barometric Pressure |
| CKP | Crankshaft Position |
| | |
| Comp. | Complete |
| CMP | Camshaft Position |
| CYL | Cylinder |
| DLC | Data Link Connector |
| EBT | Engine Block Temperature |
| ECT | Engine Coolant Temperature |
| ECM | Engine Control Module |
| EMT | Exhaust Manifold Temperature |
| EOP | Engine Oil Pressure |
| EX | Exhaust |
| F | Front or Forward |
| GND | Ground |
| HO2S | Heated Oxygen Sensor |
| IAB | Intake Air Bypass |
| IAC | Idle Air Control |
| IAT | Intake Air Temperature |
| I.D. | Inside Diameter |
| IG or IGN | Ignition |
| IN | Intake |
| INJ | Injection |
| L. | Left |
| MAP | Manifold Absolute Pressure |
| MIL | Malfunction Indicator Lamp |
| O.D. | Outside Diameter |
| OP. | Optional Part |
| PGM-FI | Programmed-Fuel Injection |
| P/N | Part Number |
| Qty | Quantity |
| R. | Right |
| | |
| SAE | Society of Automotive Engineers |
| SCS | Service Check Signal |
| STD | Standard |
| SW | Switch |
| TDC | Top Dead Center |
| TP | Throttle Position |
| VTEC | Variable Valve Timing & Valve Lift Electronic Control |

| BI | Black | G | Green | Br | Brown | Lg | Light green |
|----|--------|---|-------|----|------------|----|-------------|
| Υ | Yellow | R | Red | 0 | Orange | Р | Pink |
| Bu | Blue | W | White | Lb | Light blue | Gr | Gray |



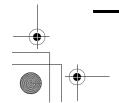


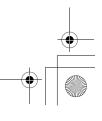




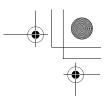
OUTLINE OF CHANGES

| Item | GX240/340 | GX390 |
|-----------------|--|---|
| Fuel filler cap | GX240T2 HX/PX/QD/QX: GX340T2 PX/QX/VXK: | |
| Recoil starter | INSTALLATION DIRECTION Except GX240R2 EDN2/UT2 QAG2: Except GX340R2 EDN2/T2 VMT: | INSTALLATION DIRECTION DUAL ELEMENT / CYCLONE AIR CLEANER TYPE: |
| | TOP | TOP |
| | INSTALLATION DIRECTION GX340T2 VMT: | INSTALLATION DIRECTION LOW PROFILE AIR CLEANER TYPE: |
| | TOP | TOP |



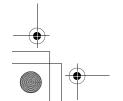


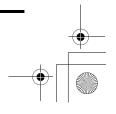




OUTLINE OF CHANGES

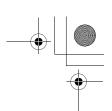
| OUTLINE OF CHANGI | | | | | | | | |
|---------------------|---|---|--|--|--|--|--|--|
| Item | GX240/340 | GX390 | | | | | | |
| Recoil starter | INSTALLING DIRECTION GX240R2 EDN2/UT2 QAG2: GX340R2 EDN2: TOP | INSTALLING DIRECTION QDW9 / QHB4: TOP | | | | | | |
| Stud bolt | CYLINDER STUD BOLT REPLACEMENT: (AIR CLEANER SIDE) | CYLINDER STUD BOLT REPLACEMENT: (AIR CLEANER SIDE) | | | | | | |
| | STUD BOLT (8 x 98): 82.0 mm (3.23 in) STUD BOLT (8 x 106): 90.0 mm (3.54 in) STUD BOLT (8 x 115): 99.0 mm (3.90 in) STUD BOLT (8 x 123): 107.0 mm (4.21 in) STUD BOLT (8 x 131.5): 115.5 mm (4.55 in) | STUD BOLT (8 x 106): 90.0 mm (3.54 in) STUD BOLT (8 x 115): 99.0 mm (3.90 in) STUD BOLT (8 x 131.5): 115.5 mm (4.55 in) | | | | | | |
| Arrester/ Screws | GX240 SEPARATED SCREW PROTECTOR TYPE: MUFFLER ARRESTER | SEPARATED PROTECTOR SCREW TYPE: MUFFLER ARRESTER | | | | | | |



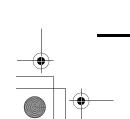


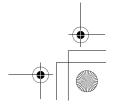


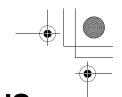




MEMO

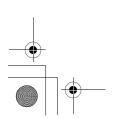


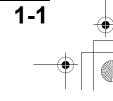




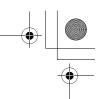
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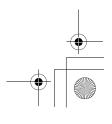
TYPE CODE

GX240

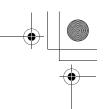
| Model | GX240R2 | GX240RT2 | GX240T2 | GX240T2 | GX240T2 |
|----------|----------|----------|----------|----------|----------|
| Type | EDN2 | VMT2 | HX | PX | QD |
| P. T. O. | E type | V type | H type | P type | Q type |
| | | | | | |
| Model | GX240T2 | GX240U2 | GX240UT2 | GX240UT2 | GX240UT2 |
| Туре | QX | LX2 | HA2 | LX2 | LXQ4 |
| P. T. O. | Q type | L type | H type | L type | L type |
| | | | | | |
| Model | GX240UT2 | GX240UT2 | GX240UT2 | GX240UT2 | GX240UT2 |
| Туре | PA2 | QA2 | QAE2 | QAG2 | RA2 |
| P. T. O. | P type | Q type | Q type | Q type | R type |
| | | | | | |
| Model | GX240UT2 | GX240UT2 | GX240UT2 | GX240UT2 | GX240UT2 |
| Type | SXE4 | SXQ4 | VXB7 | VXB9 | WKT2 |
| P. T. O. | S type | S type | V type | V type | W type |

| Model | GX340R2 | GX340RT2 | GX340RT2 | GX340RT2 | GX340RT2 |
|----------|----------|----------|----------|----------|----------|
| Туре | EDN2 | VDE2 | VWC | VWE | VWE2 |
| P. T. O. | E type | V type | V type | V type | V type |
| Model | GX340T2 | GX340T2 | GX340T2 | GX340T2 | GX340U2 |
| Туре | PX | QX | VMT | VXK | QA2 |
| P. T. O. | P type | Q type | E type | V type | Q type |
| | | • | • • • | | |
| Model | GX340UT2 | GX340UT2 | GX340UT2 | GX340UT2 | GX340UT2 |
| Туре | HA2 | LXQ4 | PKT2 | QA2 | QAE2 |
| P. T. O. | H type | L type | P type | Q type | Q type |
| | | | | | |
| Model | GX340UT2 | GX340UT2 | GX340UT2 | GX340UT2 | GX340UT2 |
| Туре | QAP2 | QNE2 | SE | SXE4 | SXQ4 |
| P. T. O. | Q type | Q type | S type | S type | S type |
| | | | - | - | |
| Model | GX340UT2 | GX340UT2 | GX340UT2 | | |
| Туре | VA2 | VX8 | VXB7 | | |
| P. T. O. | V type | V type | V type | | |







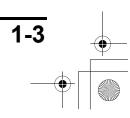


DIMENSIONS AND WEIGHTS

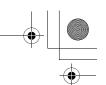
GX240

P.T.O. VARIATION

| | /lodel | GX240R2 | GX240RT2 | GX240T2 | GX240U2 | GX240UT2 |
|-------------------|---------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Overall length | E type* | 360 mm (14.2 in) | - | - | - | - |
| | H type* | - | - | 425 mm (16.7 in) | - | 425 mm (16.7 in) |
| | L type* | - | - | - | 405 mm (15.9 in) | 405 mm (15.9 in) |
| | P type* | - | - | 380 mm (15.0 in) | - | 380 mm (15.0 in) |
| | Q type* | - | - | 380 mm (15.0 in) | - | 380 mm (15.0 in) |
| | R type* | - | - | - | - | 440 mm (17.3 in) |
| | S type* | - | - | - | - | 355 mm (14.0 in) |
| | V type* | - | 420 mm (16.5 in) | - | - | 400 mm (15.7 in) |
| | W type* | - | - | - | - | 370 mm (14.6 in) |
| Overall width | E type* | 428 mm (16.9 in) | - | - | - | - |
| | H type* | - | - | 428 mm (16.9 in) | - | 428 mm (16.9 in) |
| | L type* | - | - | - | 428 mm (16.9 in) | 428 mm (16.9 in) |
| | P type* | - | - | 428 mm (16.9 in) | - | 428 mm (16.9 in) |
| | Q type* | - | - | 428 mm (16.9 in) | - | 428 mm (16.9 in) |
| | R type* | - | - | - | - | 428 mm (16.9 in) |
| | S type* | - | - | - | - | 428 mm (16.9 in) |
| | V type* | - | 428 mm (16.9 in) | - | - | 428 mm (16.9 in) |
| | W type* | - | - | - | - | 428 mm (16.9 in) |
| Overall height | E type* | 303 mm (11.9 in) | - | - | - | - |
| | H type* | - | - | 410 mm (16.1 in) | - | 422 mm (16.6 in) |
| | L type* | - | - | - | 422 mm (16.6 in) | 422 mm (16.6 in) |
| | P type* | - | - | 410 mm (16.1 in) | - | 422 mm (16.6 in) |
| | Q type* | - | - | 410 mm (16.1 in) | - | 422 mm (16.6 in) |
| | R type* | - | - | - | - | 422 mm (16.6 in) |
| | S type* | - | - | - | - | 422 mm (16.6 in) |
| | V type* | - | 303 mm (11.9 in) | - | - | 422 mm (16.6 in) |
| | W type* | - | - | - | - | 422 mm (16.6 in) |







| Mo | odel | GX240R2 | GX240RT2 | GX240T2 | GX240U2 | GX240UT2 |
|------------------|---------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Dry weight | E type* | 21.4 kg (47.2 lbs) | - | - | - | - |
| | H type* | - | - | 26.5 kg (58.4 lbs) | - | 26.5 kg (58.4 lbs) |
| | L type* | - | - | - | 26.5 kg (58.4 lbs) | 26.5 kg (58.4 lbs) |
| | P type* | - | - | 25.8 kg (56.9 lbs) | - | 25.8 kg (56.9 lbs) |
| | Q type* | - | - | 25.8 kg (56.9 lbs) | - | 25.8 kg (56.9 lbs) |
| | R type* | - | - | - | - | 30.0 kg (66.1 lbs) |
| | S type* | - | - | - | - | 25.8 kg (56.9 lbs) |
| | V type* | - | 21.4 kg (47.2 lbs) | - | - | 25.8 kg (56.9 lbs) |
| | W type* | - | - | - | - | 25.8 kg (56.9 lbs) |
| Operating weight | E type* | 26.1 kg (57.5 lbs) | - | - | - | - |
| | H type* | - | - | 31.5 kg (69.4 lbs) | - | 31.5 kg (69.4 lbs) |
| | L type* | - | - | - | 31.5 kg (69.4 lbs) | 31.5 kg (69.4 lbs) |
| | P type* | - | - | 30.5 kg (67.2 lbs) | - | 30.5 kg (67.2 lbs) |
| | Q type* | - | - | 30.5 kg (67.2 lbs) | - | 30.5 kg (67.2 lbs) |
| | R type* | - | - | - | - | 35.0 kg (77.2 lbs) |
| | S type* | - | - | - | - | 30.5 kg (67.2 lbs) |
| | V type* | - | 26.1 kg (57.5 lbs) | - | - | 30.5 kg (67.2 lbs) |
| | W type* | - | - | - | - | 30.5 kg (67.2 lbs) |

*: P. T. O. type. (page 1-2)

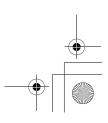
EQUIPMENT VARIATION

Indicates the difference compared with values of P. T. O. variation above.

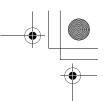
| Variation | No balancer type | Cyclone air cleaner type | Starter motor type | Control box type | Low profile type *1 |
|-------------------------------|--------------------|-----------------------------|--------------------|--------------------|---------------------|
| Overall length difference | - | - | - | - | + 20 mm (0.8 in) |
| Overall width difference | - | + 96 mm (3.8 in) | - | + 34 mm (1.3 in) | - |
| Overall height difference | - | - | - | - | - 119 mm (4.7 in) |
| Dry weight dif- ference | - 0.9 kg (2.0 lbs) | + 0.2 kg (0.4 lbs) | + 2.5 kg (5.5 lbs) | + 3.2 kg (7.1 lbs) | - 4.4 kg (9.7 lbs) |
| Operating weight differ- ence | - 0.9 kg (2.0 lbs) | + 0.2 kg (0.4 lbs) | + 2.5 kg (5.5 lbs) | + 3.2 kg (7.1 lbs) | - 4.4 kg (9.7 lbs) |

^{*1:} No fuel tank and muffler, use low profile type air cleaner.





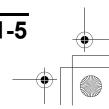




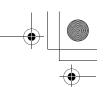
GX340

P.T.O. VARIATION

| | odel | GX340R2 | GX340RT2 | GX340T2 | GX340U2 | GX340UT2 |
|-------------------|---------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Overall length | E type* | 365 mm (14.4 in) | - | 365 mm (14.4 in) | - | - |
| | H type* | - | - | - | - | 452 mm (17.8 in) |
| | L type* | - | - | - | - | 440 mm (17.3 in) |
| | P type* | - | - | 405 mm (15.9 in) | - | 405 mm (15.9 in) |
| | Q type* | - | - | 405 mm (15.9 in) | 405 mm (15.9 in) | 405 mm (15.9 in) |
| | S type* | - | - | - | - | 380 mm (15.0 in) |
| | V type* | - | 430 mm (16.9 in) | 425 mm (16.7 in) | - | 425 mm (16.7 in) |
| Overall width | E type* | 460 mm (18.1 in) | - | 460 mm (18.1 in) | - | - |
| | H type* | - | - | - | - | 460 mm (18.1 in) |
| | L type* | - | - | - | - | 460 mm (18.1 in) |
| | P type* | - | - | 460 mm (18.1 in) | - | 460 mm (18.1 in) |
| | Q type* | - | - | 460 mm (18.1 in) | 460 mm (18.1 in) | 460 mm (18.1 in) |
| | S type* | - | - | - | - | 460 mm (18.1 in) |
| | V type* | - | 460 mm (18.1 in) | 460 mm (18.1 in) | - | 460 mm (18.1 in) |
| Overall height | E type* | 313 mm (12.3 in) | - | 448 mm (17.6 in) | - | - |
| | H type* | - | - | - | - | 448 mm (17.6 in) |
| | L type* | - | - | - | - | 448 mm (17.6 in) |
| | P type* | - | - | 448 mm (17.6 in) | - | 448 mm (17.6 in) |
| | Q type* | - | - | 448 mm (17.6 in) | 448 mm (17.6 in) | 448 mm (17.6 in) |
| | S type* | - | - | - | - | 448 mm (17.6 in) |
| | V type* | - | 313 mm (12.3 in) | 448 mm (17.6 in) | - | 448 mm (17.6 in) |
| Dry weight | E type* | 27.3 kg (60.2 lbs) | - | 31.7 kg (69.9 lbs) | - | - |
| | H type* | - | - | - | - | 35.2 kg (77.6 lbs) |
| | L type* | - | - | - | - | 35.2 kg (77.6 lbs) |
| | P type* | - | - | 31.7 kg (69.9 lbs) | - | 31.7 kg (69.9 lbs) |
| | Q type* | - | - | 31.7 kg (69.9 lbs) | 31.7 kg (69.9 lbs) | 31.7 kg (69.9 lbs) |
| | S type* | - | - | - | - | 31.7 kg (69.9 lbs) |
| | V type* | - | 27.3 kg (60.2 lbs) | 31.7 kg (69.9 lbs) | - | 31.7 kg (69.9 lbs) |







| Me | odel | GX340R2 | GX340RT2 | GX340T2 | GX340U2 | GX340UT2 |
|------------------|---------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Operating weight | E type* | 33.4 kg (73.6 lbs) | - | 37.8 kg (83.3 lbs) | - | - |
| | H type* | - | - | - | - | 41.2 kg (90.8 lbs) |
| | L type* | - | - | - | - | 41.2 kg (90.8 lbs) |
| | P type* | - | - | 37.8 kg (83.3 lbs) | - | 37.8 kg (83.3 lbs) |
| | Q type* | - | - | 37.8 kg (83.3 lbs) | 37.8 kg (83.3 lbs) | 37.8 kg (83.3 lbs) |
| | S type* | - | - | - | - | 37.8 kg (83.3 lbs) |
| | V type* | - | 33.4 kg (73.6 lbs) | 37.8 kg (83.3 lbs) | - | 37.8 kg (83.3 lbs) |

^{*:} P. T. O. type. (page 1-2)

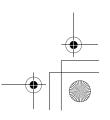
EQUIPMENT VARIATION

Indicates the difference compared with values of P. T. O. variation above.

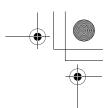
| Variation | Cyclone air cleaner type | Starter motor type | Control box type | Low profile type *1 |
|-------------------------------|-----------------------------|--------------------|--------------------|------------------------|
| Overall length difference | - | - | - | + 6 mm (0.2 in) |
| Overall width difference | + 93 mm (3.7 in) | ± 5 mm (0.2 in) | + 39 mm (1.5 in) | - |
| Overall height difference | - | - | - | - 135 mm (5.3 in) |
| Dry weight dif- ference | + 0.2 kg (0.4 lbs) | + 2.5 kg (5.5 lbs) | + 3.2 kg (7.1 lbs) | - 4.4 kg (9.7 lbs) |
| Operating weight differ- ence | + 0.2 kg (0.4 lbs) | + 2.5 kg (5.5 lbs) | + 3.2 kg (7.1 lbs) | - 4.4 kg (9.7 lbs) |

^{*1:} No fuel tank and muffler, use low profile type air cleaner.







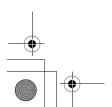


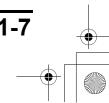
ENGINE SPECIFICATIONS

GX240

| | 77.0 x 5.9 kW (7. 4.6 kW (6 18.3 N·m (1.86 kg 2.2 Liters (0 | 70 cm3 (16.5 cu– 3 58.0 mm (3.0 x 2 9 HP) / 3,600 mir 5.1 HP) / 3,600 m | in) 2.3 in) n-1 (rpm)*2 in-1 (rpm) 2,500 min-1 (rpm | | |
|--|---|---|---|--|--|
| | 27 77.0 x 5.9 kW (7. 4.6 kW (6 18.3 N·m (1.86 kg 2.2 Liters (0 | 70 cm3 (16.5 cu– x 58.0 mm (3.0 x) 9 HP) / 3,600 mir 5.1 HP) / 3,600 m yf·m, 13.4 lbf·ft) / 3 8.5: 1 | in) 2.3 in) n-1 (rpm)*2 in-1 (rpm) 2,500 min-1 (rpm | | |
| | 27 77.0 x 5.9 kW (7. 4.6 kW (6 18.3 N·m (1.86 kg 2.2 Liters (0 | 70 cm3 (16.5 cu– x 58.0 mm (3.0 x) 9 HP) / 3,600 mir 5.1 HP) / 3,600 m yf·m, 13.4 lbf·ft) / 3 8.5: 1 | in) 2.3 in) n-1 (rpm)*2 in-1 (rpm) 2,500 min-1 (rpm | | |
| | 5.9 kW (7. 4.6 kW (6 18.3 N·m (1.86 kg 2.2 Liters (0 | 9 HP) / 3,600 mir 3.1 HP) / 3,600 m gf·m, 13.4 lbf·ft) / 3 8.5: 1 | n-1 (rpm)*2 in-1 (rpm) 2,500 min-1 (rpm | 1) | |
| | 4.6 kW (6 18.3 N·m (1.86 kg 2.2 Liters (0 | 3.1 HP) / 3,600 m gf·m, 13.4 lbf·ft) / 8.5: 1 | in-1 (rpm) 2,500 min-1 (rpm | n) | |
| | 18.3 N·m (1.86 kg | gf·m, 13.4 lbf·ft) / : 8.5: 1 | 2,500 min-1 (rpm | n) | |
| | 2.2 Liters (0 | 8.5: 1 | | 1) | |
| C.I | • | | Imp gal) / h | | |
| C.I | • | 0.58 US gal, 0.48 | Imp gal) / h | | |
| C.I |) I (Canacitor Disc | | | | |
| | J.I. Capacitor Dis | charge Ignition) ty | ype magneto igni | ition | |
| 1 | | C. 10° / 1,400min- | | | |
| B.T.D.C. 10°- 20° | | | | | |
| BPR6ES (NGK) / W20EPR-U (DENSO) | | | | | |
| Forced splash | | | | | |
| 1.1 Liters (1.16 US qt, 0.97 Imp qt) | | | | | |
| SAE 10W-30 API service classification SE or later | | | | | |
| Forced air | | | | | |
| Recoil, Recoil and Starter motor | | | | | |
| Ignition exciter coil circuit open | | | | | |
| Horizontal type, butterfly valve | | | | | |
| Dual element type, Cyclone type, Oil bath type, Low profile type | | | | | |
| Mechanical centrifugal | | | | | |
| Reed valve type | | | | | |
| Un | | | | gher | |
| 0.3 Liters (0.32 US qt, 0.26 Imp qt) | | | | | |
| | | Centrifugal | | | |
| | | 1,800 min-1 (rpm |) | | |
| | | 2,200 min-1 (rpm |) | | |
| | | BPR6ES (N 1.1 Liters SAE 10W-30 AF Recoil, Ignition Horizo Dual element type, Cyc Me Unleaded gasoline v 0.3 Liters | B.T.D.C. 10°- 20° BPR6ES (NGK) / W20EPR- Forced splash 1.1 Liters (1.16 US qt, 0.9 SAE 10W-30 API service classific Forced air Recoil, Recoil and Starte Ignition exciter coil circu Horizontal type, butterfl Dual element type, Cyclone type, Oil bar Mechanical centrifu Reed valve type Unleaded gasoline with a pump octar 0.3 Liters (0.32 US qt, 0.2 Centrifugal 1,800 min-1 (rpm | B.T.D.C. 10°- 20° BPR6ES (NGK) / W20EPR-U (DENSO) Forced splash 1.1 Liters (1.16 US qt, 0.97 Imp qt) SAE 10W-30 API service classification SE or later Forced air Recoil, Recoil and Starter motor Ignition exciter coil circuit open Horizontal type, butterfly valve Dual element type, Cyclone type, Oil bath type, Low profit Mechanical centrifugal Reed valve type Unleaded gasoline with a pump octane rating 86 or high contractions of the contraction of the co | |

^{*1:} The power rating of the engine indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3,600 rpm (net power) and at 2,500 rpm (max net torque). Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.





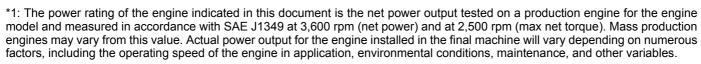
^{*2:} Base type includes a balancer, dual type air cleaner, and standard type muffler.





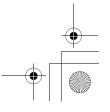
GX340

| Model | GX340R2 | GX340RT2 | GX340T2 | GX340U2 | GX340UT2 |
|--|--|-------------------|------------------------|---------------------|----------|
| Description code | GCBKK | GCBET | GCBFT | GCBKK | GCBET |
| Туре | 4 | stroke, overhead | valve, single cylir | nder, inclined by 2 | .5° |
| Displacement | | 38 | 39 cm3 (23.7 cu-i | in) | |
| Bore x stroke | | | c 64.0 mm (3.5 x 2 | | |
| Net power (SAE J1349)*1 | | 8.0 kW (10 | .7 HP) / 3,600 mi | n-1 (rpm)*2 | |
| Continuous rated power | | 6.3 kW (8 | 3.4 HP) / 3,600 m | in-1 (rpm) | |
| Maximum net torque (SAE J1349)*1 | | 26.4 N·m (2.69 kg | gf·m, 19.5 lbf·ft) / : | 2,500 min-1 (rpm |) |
| Compression ratio | | | 8.2: 1 | | |
| Fuel consumption (at continuous rated power) | 3.1 Liters (0.82 US gal, 0.68 Imp gal) / h | | | | |
| Ignition system | C.D.I.(Capacitor Discharge Ignition) type magneto ignition | | | | |
| Ignition timing | B.T.D.C. 10° / 1,400min-1 (rpm) | | | | |
| Spark advancer performance | B.T.D.C. 10°- 22° | | | | |
| Spark plug | BPR6ES (NGK) / W20EPR-U (DENSO) | | | | |
| Lubrication system | | | Forced splash | | |
| Oil capacity | | | s (1.16 US qt, 0.9 | | |
| Recommended oil | | SAE 10W-30 AF | PI service classific | ation SE or later | |
| Cooling system | | | Forced air | | |
| Starting system | | Recoil, | Recoil and Starte | er motor | |
| Stopping system | | | n exciter coil circu | | |
| Carburetor | | | ntal type, butterfly | | |
| Air cleaner | Dual element type, Cyclone type, Oil bath type, Low profile type | | | | |
| Governor | | Me | echanical centrifu | | |
| Breather system | | | Reed valve type | | |
| Fuel used | Un | leaded gasoline v | vith a pump octar | e rating 86 or hig | her |

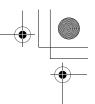


^{*2:} Base type includes a balancer, dual type air cleaner, and standard type muffler.

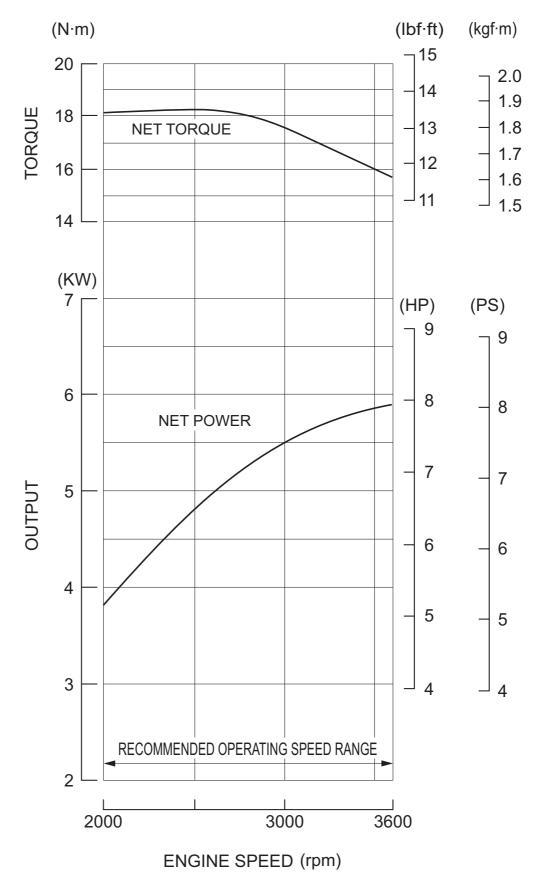


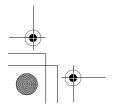


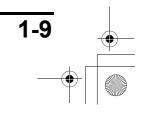


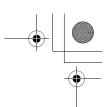


PERFORMANCE CURVES GX240

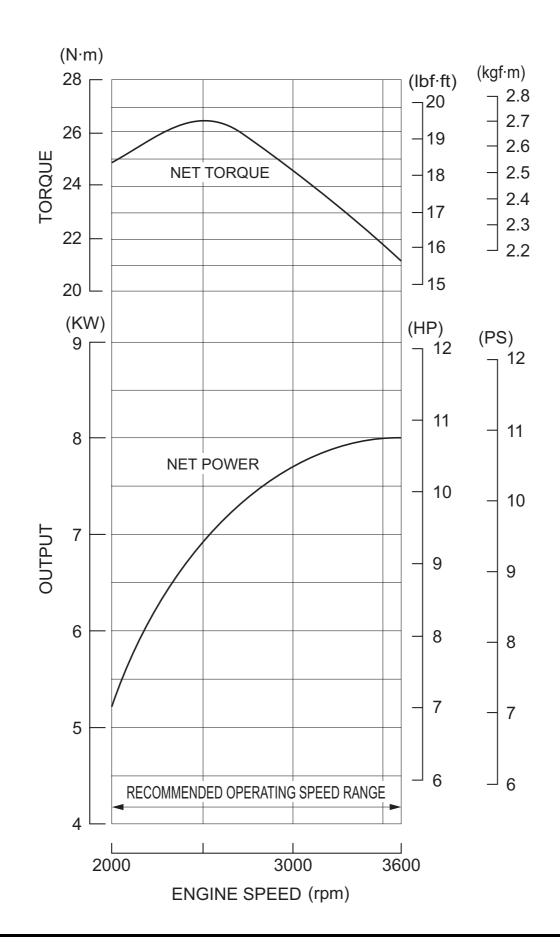


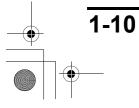


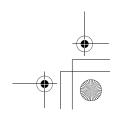




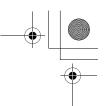
GX340









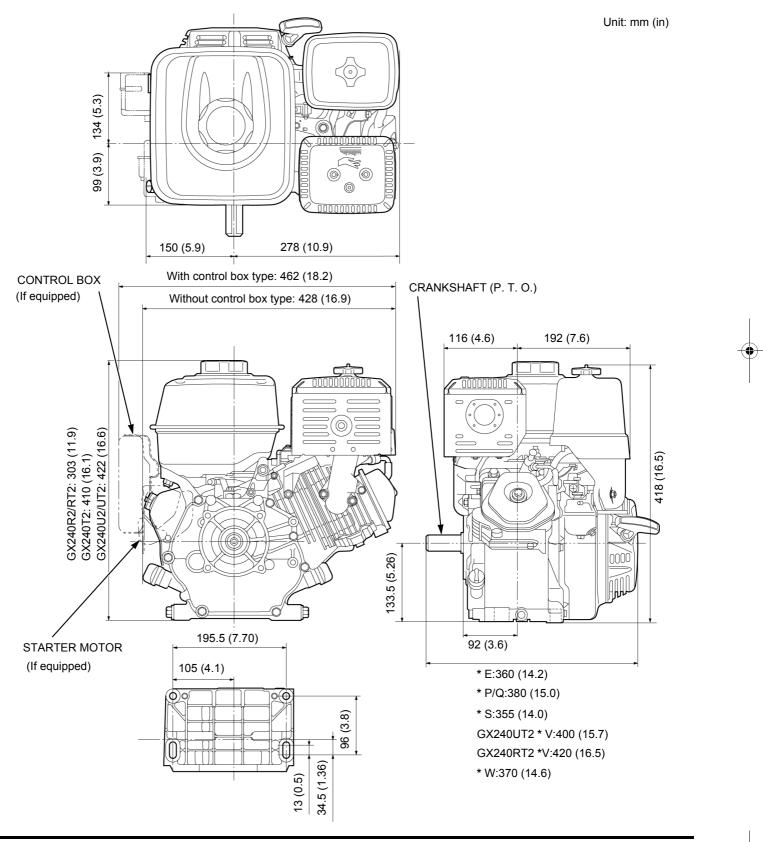


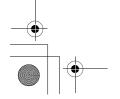
DIMENSIONAL DRAWINGS

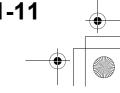
*: P. T. O. type. (page 1-2)

GX240

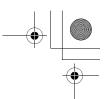
WITHOUT REDUCTION UNIT TYPE



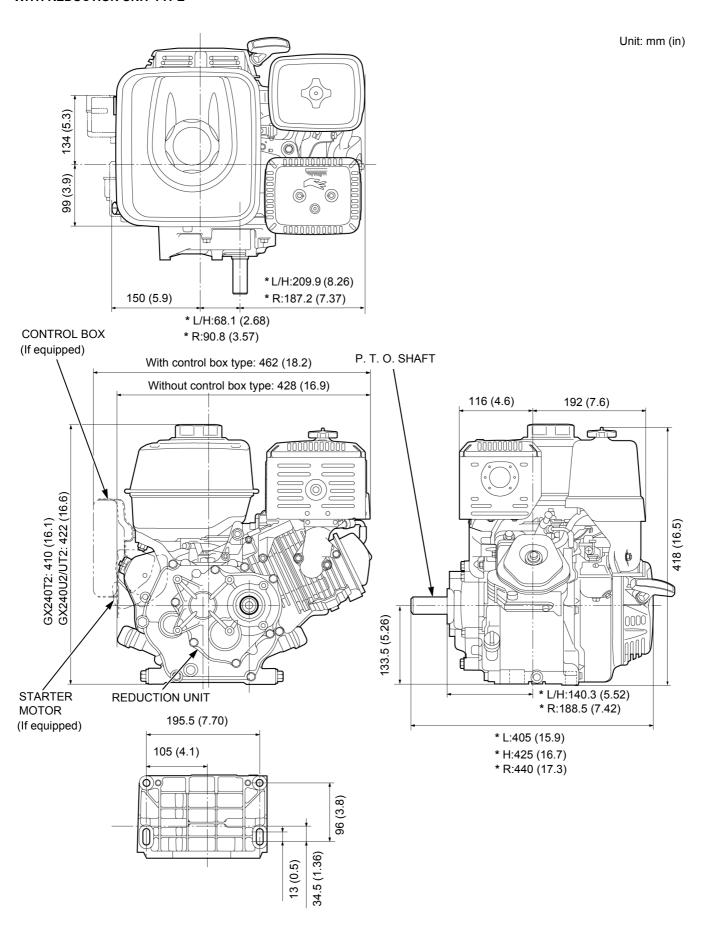




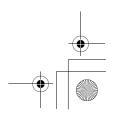


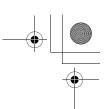


WITH REDUCTION UNIT TYPE



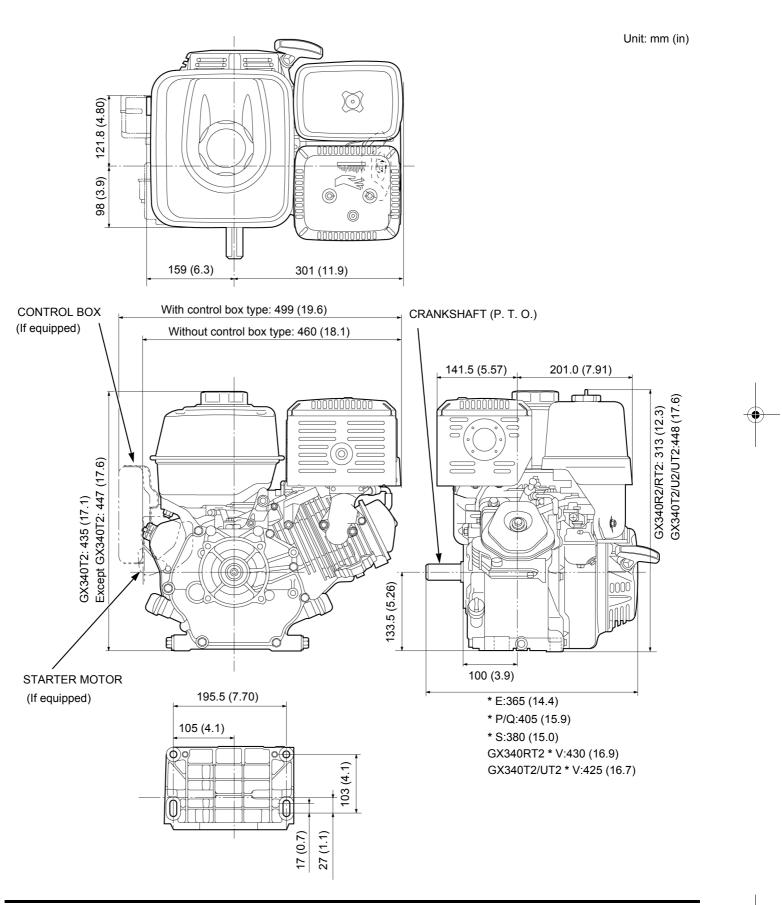


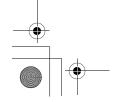


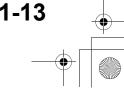


GX340

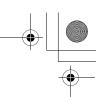
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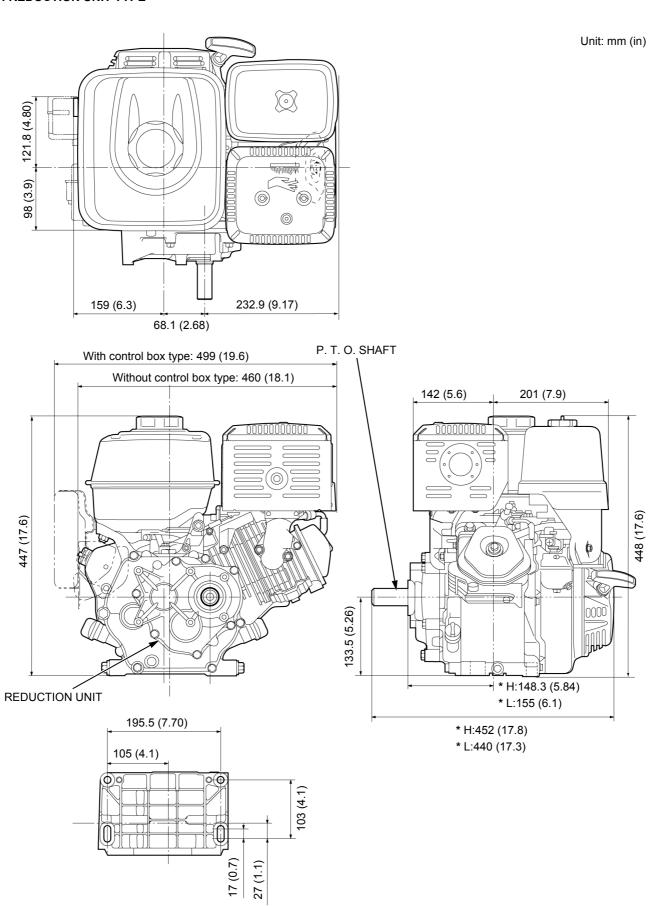


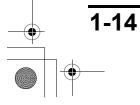


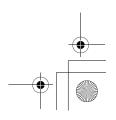




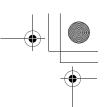
WITH REDUCTION UNIT TYPE











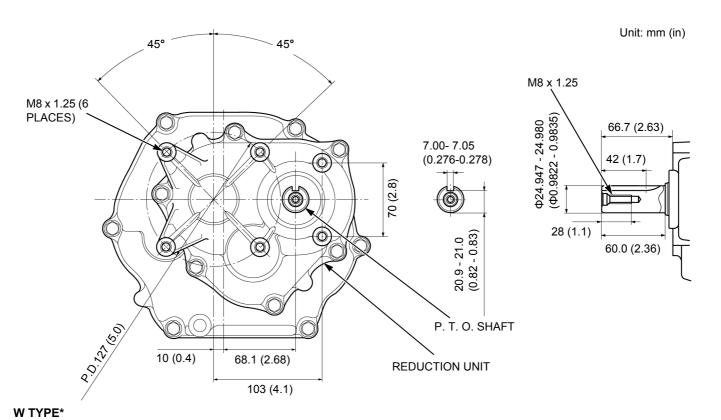
P.T.O. DIMENSIONAL DRAWINGS

GX240

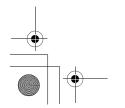
*: P. T. O. type. (page 1-2)

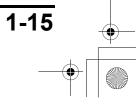
Except L type and W type (base shop manual:62Z5F00Z)

L TYPE* (WITH REDUCTION UNIT)

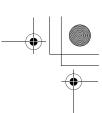


Unit: mm (in) 45° 45° 30° 30° Φ7.15(Φ0.281) (2 PLACES) 80 (3.1) 55 (2.2) Ф89 (Ф3.5) 70 (2.8) 15.5 (0.61) M20 x 1.5 M8 x 1.25 (4 PLACES) 75 (3.0) Ф8.51(Ф0.335) (4 PLACES) 103 (4.1) CRANKSHAFT (P. T. O.)





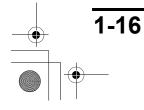




GX340

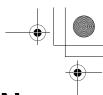
*: P. T. O. type. (page 1-2)

P.T.O. DIMENSIONAL DRAWINGS (base shop manual:62Z5F00)





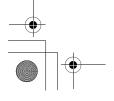


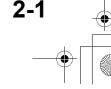


| MAINTENANCE STANDARDS2-2 | LUBRICATION & SEAL POINT2-4 |
|--------------------------|-------------------------------|
| TOPOLIE VALUES2.4 | HARNESS AND THRE POLITING 2-5 |

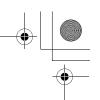








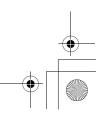




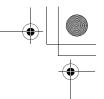
MAINTENANCE STANDARDS GX240

Unit: mm (in)

| Part | Item | | Standard | Service limit |
|-----------------------------|----------------------------|-----------------|--|----------------------|
| Engine | Maximum speed (at no | load) | 3,850 ± 150 min ⁻¹ (rpm) | _ |
| | Idle speed | | 1,400 ± 150 min ⁻¹ (rpm) | _ |
| | Outlin day communication | | 0.59 - 0.83 MPa (6.0 - 8.5 kgf/cm ² , | |
| | Cylinder compression | | 85 - 121 psi) / 600 min ⁻¹ (rpm) | _ |
| Cylinder head | Warpage | | _ | 0.10 (0.004) |
| Cylinder | Sleeve I.D. | | 77.000 – 77.017 (3.0315 – 3.0322) | 77.17 |
| | | | | (3.038) |
| Piston | Skirt O.D. | | 76.975 – 76.985 (3.0305 – 3.0309) | 76.85 |
| | Dietas to ordinder describ | | 0.045 0.040 (0.0000 0.0047) | (3.026) |
| | Piston-to-cylinder clear | ance | 0.015 - 0.042 (0.0006 - 0.0017) 18.002 - 18.008 (0.7087 - 0.7090) | 0.12 (0.005) |
| | Piston pin bore I.D. | | 18.002 - 18.008 (0.7087 - 0.7090) | 18.042 (0.7103) |
| Piston pin | Pin O.D. | | 17.994 – 18.000 (0.7084 – 0.7087) | 17.95 |
| i istori piri | T III O.B. | | 17.554 - 10.000 (0.7004 - 0.7007) | (0.707) |
| | Piston pin-to-piston pin | bore clearance | 0.002 - 0.014 (0.0001 - 0.0006) | 0.08 (0.003) |
| Piston rings | Ring side clearance | Тор | 0.030 - 0.060 (0.0012 - 0.0024) | 0.15 (0.006) |
| ŭ | | Second | 0.030 - 0.060 (0.0012 - 0.0024) | 0.15 (0.006) |
| | Ring end gap | Тор | 0.200 - 0.350 (0.0079 - 0.0138) | 1.0 (0.04) |
| | | Second | 0.350 - 0.500 (0.0138 - 0.0197) | 1.0 (0.04) |
| | | Oil (side rail) | 0.2 – 0.7 (0.01 – 0.03) | 1.0 (0.04) |
| | Ring width | Тор | 1.160 - 1.175 (0.0457 - 0.0463) | 1.140 |
| | | | | (0.0449) |
| | | Second | 1.160 - 1.175 (0.0457 - 0.0463) | 1.140 |
| Composting rod | Small end I.D. | | 10.005 10.000 (0.7000 0.7004) | (0.0449) |
| Connecting rod | Smail end I.D. | | 18.005 – 18.020 (0.7089 – 0.7094) | 18.07 (0.711) |
| | Big end side clearance | | 0.1 – 0.4 (0.004 – 0.016) | 1.0 (0.04) |
| | Big end I.D. | | 33.025 – 33.039 (1.3002 – 1.3007) | 33.07 |
| | 3 - | | , | (1.302) |
| | Big end oil clearance | | 0.040 - 0.064 (0.0016 - 0.0025) | 0.12 |
| | | | | (0.005) |
| Crankshaft | Crank pin O.D. | | 32.975 – 32.985 (1.2982 – 1.2986) | 32.92 |
| | One alicely of mineral | | | (1.296) |
| Culinday barral | Crankshaft runout | | - 16.000 – 16.018 (0.6299 – 0.6306) | 0.1 (0.004) 16.05 |
| Cylinder barrel (Crankcase) | Camshaft bearing I.D. | | 16.000 - 16.016 (0.6299 - 0.6306) | (0.632) |
| Crankcase cover | Camshaft bearing I.D. | | 16.000 – 16.018 (0.6299 – 0.6306) | 16.05 |
| Craminoade dever | Camerian Scaring 1.2. | | 10.000 10.010 (0.0200 0.0000) | (0.632) |
| Valves | Valve clearance | IN | 0.15 ± 0.02 | _ |
| | | EX | 0.20 ± 0.02 | _ |
| | Valve stem O.D. | IN | 6.575 - 6.590 (0.2589 - 0.2594) | 6.44 (0.254) |
| | | EX | 6.535 - 6.550 (0.2573 - 0.2579) | 6.40 (0.252) |
| | Valve guide I.D. | IN/EX | 6.600 - 6.615 (0.2598 - 0.2604) | 6.66 (0.262) |
| | Guide-to-stem clear- | IN | 0.010 - 0.040 (0.0004 - 0.0016) | 0.10 (0.004) |
| | ance | EX | 0.050 - 0.080 (0.0020 - 0.0031) | 0.12 (0.005) |
| | Valve seat width | | 1.0 – 1.2 (0.04 – 0.05) | 2.0 (0.08) |
| | Valve spring free length | | 39.0 (1.54) | 37.5 (1.48) |
| Camabaff | Valve spring perpendic | | 24.045 22.445 (4.0577 4.0055) | 1.5° max. |
| Camshaft | Cam height | IN | 31.945 – 32.145 (1.2577 – 1.2655) | 31.35 (1.234) |
| | | EX | 31.666 – 31.866 (1.2467 – 1.2546) | 31.35 |
| | | | 01.000 (1.2707 - 1.2070) | (1.234) |
| | Camshaft O.D. | 1 | 15.966 – 15.984 (0.6286 – 0.6293) | 15.92 |
| | | | , | (0.627) |





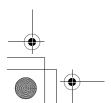


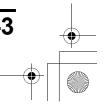
| Part | Item | | m Standard | |
|---------------|---------------------|------------|--|------------|
| Carburetor | Main jet | | BE70R A: #85 BE71F A: #85 | _ |
| | Pilot screw opening | | BE70R A: 1 turns out BE71F A: 1 turns out | _ |
| | Float height | | 13.2 (0.52) | - |
| Spark plug | Gap | | 0.7 - 0.8 (0.028 - 0.031) | - |
| Ignition coil | Air gap | | 0.2 – 0.6 (0.01 – 0.02) | _ |
| Starter motor | Brush length | | 7.0 (0.28) | 3.5 (0.14) |
| | Mica depth | | 1.0 (0.04) | 0.2 (0.01) |
| Charge coil | Resistance | 1A | 3.00 - 4.00 Ω | - |
| | | 3A | 0.62 - 0.93 Ω | _ |
| | | 10A | 0.16 - 0.24 Ω | _ |
| | | 18A | 0.10 - 0.30 Ω | _ |
| Lamp coil | Resistance | 12V - 15 W | 1.04 - 1.56 Ω | _ |
| • | | 12V - 25 W | 0.30 - 0.46 Ω | _ |
| | | 12V - 50 W | 0.29 - 0.44 Ω | _ |

GX340

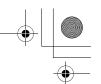
Unit: mm (in)

| Part | Item | | Standard | Service limit |
|-----------------------------|-------------------------|------------------|---|--------------------|
| Engine | Maximum speed (at no | o load) | 3,850 ± 150 min ⁻¹ (rpm) | _ |
| | Idle speed | | 1,400 ± 150 min ⁻¹ (rpm) | _ |
| | Cylinder compression | | 0.51 - 0.69 MPa (5.2 - 7.0 kgf/cm ² , 74 - 100 psi) / 600 min ⁻¹ (rpm) | _ |
| Cylinder head | Warpage | | _ | 0.10 (0.004) |
| Cylinder | Sleeve I.D. | | 88.000 - 88.017 (3.4646 - 3.4652) | 88.170 (3.4713) |
| Piston | Skirt O.D. | | 87.965 - 87.985 (3.4632 - 3.4640) | 87.85(3.459) |
| | Piston-to-cylinder clea | rance | 0.015 - 0.052 (0.0006 - 0.0020) | 0.12 (0.005) |
| | Piston pin bore I.D. | | 20.002 – 20.008 (0.7875 – 0.7877) | 20.042 (0.7891) |
| Piston pin | Piston pin Pin O.D. | | 19.994 – 20.000 (0.7872 – 0.7874) | 19.950 (0.7854) |
| Piston pin-to-piston p | | n bore clearance | 0.002 - 0.014 (0.0001 - 0.0006) | 0.08 (0.003) |
| Piston rings | Ring side clearance | Тор | 0.030 - 0.060 (0.0012 - 0.0024) | 0.15 (0.006) |
| | | Second | 0.030 - 0.060 (0.0012 - 0.0024) | 0.15 (0.006) |
| | Ring end gap | Тор | 0.200 - 0.350 (0.0079 - 0.0138) | 1.0 (0.04) |
| | | Second | 0.350 - 0.500 (0.0138 - 0.0197) | 1.0 (0.04) |
| | | Oil (side rail) | 0.2 – 0.7 (0.01 – 0.03) | 1.0 (0.04) |
| | Ring width | Тор | 1.160 - 1.175 (0.0457 - 0.0463) | 1.140 (0.0449) |
| | | Second | 1.160 – 1.175 (0.0457 – 0.0463) | 1.140 (0.0449) |
| Connecting rod | Small end I.D. | | 20.005 – 20.020 (0.7876 – 0.7882) | 20.07 (0.790) |
| | Big end side clearance | ; | 0.1 – 0.4 (0.004 – 0.016) | 1.0 (0.04) |
| | Big end I.D. | | 36.025 – 36.039 (1.4183 – 1.4189) | 36.07 (1.420) |
| | Big end oil clearance | | 0.040 - 0.064 (0.0016 - 0.0025) | 0.12 (0.005) |
| Crankshaft | Crank pin O.D. | | 35.975 – 35.985 (1.4163 – 1.4167) | 35.93 (1.415) |
| | Crankshaft runout | | _ | 0.1 (0.003) |
| Cylinder barrel (Crankcase) | Camshaft bearing I.D. | | 16.000 - 16.018 (0.6299 - 0.6306) | 16.05 (0.632) |
| Crankcase cover | Camshaft bearing I.D. | | 16.000 – 16.018 (0.6299 – 0.6306) | 16.05 (0.632) |









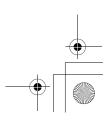
| Part | Part Item | | Standard | Service limit |
|---------------|--------------------------|------------|--|------------------|
| Valves | Valve clearance | IN | 0.15 ± 0.02 | - |
| | | EX | 0.20 ± 0.02 | _ |
| | Valve stem O.D. | IN | 6.575 - 6.590 (0.2588 - 0.2594) | 6.44 (0.254) |
| | | EX | 6.535 - 6.550 (0.2572 - 0.2578) | 6.40 (0.252) |
| | Valve guide I.D. | IN/EX | 6.600 - 6.615 (0.2598 - 0.2604) | 6.66 (0.262) |
| | Guide-to-stem clear- | IN | 0.010 - 0.040 (0.0004 - 0.0016) | 0.10 (0.004) |
| | ance | EX | 0.050 - 0.080 (0.0020 - 0.0031) | 0.12 (0.005) |
| | Valve seat width | 1 | 1.0 – 1.2 (0.04 – 0.05) | 2.0 (0.08) |
| | Valve spring free length | า | 39.0 (1.54) | 37.5 (1.48) |
| | Valve spring perpendic | ularity | _ | 1.5° max. |
| Camshaft | Cam height | IN | 31.945 – 32.145 (1.2577 – 1.2655) | 31.35 (1.234) |
| | | EX | 31.666 – 31.866 (1.2467 – 1.2546) | 31.35 (1.234) |
| Camshaft O.D. | | | 15.966 – 15.984 (0.6286 – 0.6293) | 15.92 (0.627) |
| Carburetor | Main jet | | BE80N A: #98 BE80M A: #98 BE80P A: #98 | _ |
| | Pilot screw opening | | BE80N A: 1 - 3/4 turns out BE80M A: 1 - 3/4 turns out BE80P A: 1 - 3/4 turns out | _ |
| | Float height | | 13.2 (0.52) | _ |
| Spark plug | Gap | | 0.7 - 0.8 (0.028 - 0.031) | _ |
| Ignition coil | Air gap | | 0.2 – 0.6 (0.01 – 0.02) | _ |
| Starter motor | Brush length | | 7.0 (0.28) | 3.5 (0.14) |
| | Mica depth | | 1.0 (0.04) | 0.2 (0.01) |
| Charge coil | Resistance | 1A | 3.00 - 4.00 Ω | |
| - | | 3A | 0.62 - 0.93 Ω | _ |
| | | 10A | 0.16 - 0.24 Ω | _ |
| | | 18A | 0.10 - 0.30 Ω | _ |
| Lamp coil | Resistance | 12V - 15 W | 1.04 - 1.56 Ω | _ |
| • | | 12V - 25 W | 0.30 - 0.46 Ω | _ |
| | | 12V - 50 W | 0.29 - 0.44 Ω | _ |

TORQUE VALUES ENGINE TORQUE VALUES

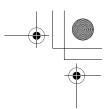
| Item | Tread Dia. (mm) | Torque values | | | |
|----------------------|-------------------------|---------------|-------|--------|--|
| item | ireau Dia. (IIIII) | N⋅m | kgf⋅m | lbf·ft | |
| Flywheel nut (GX240) | M16 x 1.5 (Special nut) | 128 | 13.1 | 94 | |
| Flywheel nut (GX340) | M16 x 1.5 (Special nut) | 170 | 17.3 | 125 | |

LUBRICATION & SEAL POINT

| Location | Material | Remarks |
|-----------------------------------|------------|---------|
| Drive sprocket and P. T. O. shaft | Engine oil | |







HARNESS AND TUBE ROUTING

