HONDA
G 300/G 400
(With Electric Starter)
GENERAL PURPOSE ENGINE

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OWNER'S MANUAL
WARNING:
* To prevent fire hazards and to provide adequate ventilation, keep the engine at least 3 ft away from buildings and other equipment, during operation.
* Do not place flammable objects, such as, gasoline, matches, etc., close to the engine while it is running.
* Refuel in a well ventilated area with the engine stopped. Gasoline is flammable and explosive under certain conditions.
* Do not smoke or allow flames or sparks where the engine is refueled or where gasoline is stored.
* Do not overfill the tank. There should be no fuel in the filler neck. Make sure that the filler cap is closed securely.
* If any fuel is spilled, make sure the area is dry before starting.
* Operate the engine on a level surface to prevent fuel spillage.
* This engine is not equipped with a spark arrester, and operation may be illegal in some areas. Check local laws and regulations before operation.

WARNING:
**PRE-OPERATION CHECK**

**Dry type**
- Check cleaner for dirt or obstruction of element.

**Semi dry type**
- Check cleaner for dirt or obstruction of element.

**Wet type**
- Check oil level and condition.

**Check battery condition**
- Be sure the fluid level of each cell is between upper and lower level marks.
- Add distilled water if necessary.
- Check battery Q and ⊕ terminals for proper connection.

**Check reduction gear oil level.** Fill with "SE" rated SAE 10W-40 engine oil, if necessary.

**Fuel filler cap**

**Fuel filler cap**

**Fill fuel tank.**
* Use any automotive gasoline.

**Air cleaner**

**Throttle lever**

**Engine switch**

**Spark plug**

**Starter motor**

**Oil drain plug**

**Dipstick/Filler plug**

**Muffler**
STARTING

1. Turn the fuel valve “OFF”.

STOPPING

2. Loosen the wing nut and raise the throttle lever slightly.

RUNNING

3. Move the throttle lever down fully.


Note: Do not use the choke if the engine is warm or the air temperature is high.

Set the throttle by tightening the wing nut at the desired speed.

As the engine warms up, gradually open the choke.

Turn the fuel valve “OFF”.

Turn the engine switch to “START”.
(If engine fails to start after cranking for 10 seconds, wait 5 seconds before trying again.)
**First 20 Hrs. operating**

- **CHANGE ENGINE OIL AND REDUCTION GEAR OIL**
- After hand tightening oil filter cap, tighten with a lever.

**Every 50 Hrs. operating**

- **CLEAN AIR CLEANER ELEMENT**
  - Wash part “A” (element) in cleaning solvent. After drying, soak in oil and squeeze out the excess.

**Every 100 Hrs. operating**

- **CHANGE ENGINE OIL**
- **CLEAN FUEL STRAINER**
  - Wash removed parts in solvent, dry them thoroughly and install securely.
- **CLEAN SPARK PLUG AND CHECK GAP**
  - Use NGK B4H or BR4HS.

**Every 300 Hrs. operating**

- **WARNING**
- Do not use gasoline or low flash point solvents for cleaning. They are flammable and explosive under certain conditions.
- Use NGK BPJHS-10 or BPR-4HS-iO.

**ADJUSTMENT**

- **IGNITION TIMING**
  - The CDI type does not require adjustment.
- **VALVE CLEARANCE**
  - **STANDARD:**
    - EX 0.09 – 0.15 mm (.0035 – .0059 in)
  - Measure at TDC on compression stroke when engine is cold.
- **CARBURETOR SCREWS**
  - Carburetor with pilot screw
    1) Tighten the pilot screw until it bottoms tightly, then back it off the number of turns shown below:
    - G300 1/2 turns
    - G400 2 turns
  - Adjust idle speed as outlined left.

**WARNING**

- **Use 1.5A fuse. Never use a fuse with a different rating.**
- **Insert the ignition switch "OFF" before checking or replacing the fuse to prevent accidental short-circuiting.**

**OIL - FUEL - ELECTRICAL**

- **THROTTLE CONTROL**
  - A throttle control cable (optional) may be used in any one of the four pull directions shown.
  - Use either a solid core wire, or a flexible core wire with a return spring and wire end.

**BATTERY**

- Recommended battery is 12V-32AH.
- Use only automobile type vinyl covered wire (for low voltage) whose effective diameter is more than 4 mm (.172 in) and which utilizes press fit terminals between the battery and the engine. Length must be within 1m (3 ft).
- Protect the terminals with grease and completely cover the positive terminal with a rubber cap. When connecting terminals, ensure positive and negative leads are correctly connected.

**WIRING DIAGRAM**

- ENGINE UNDER COVER
- BATTERY
### SPECIFICATIONS

*With electric starter*

<table>
<thead>
<tr>
<th></th>
<th>G300</th>
<th>G400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycle, valve arrangement</td>
<td>4 cycle, side valve</td>
<td></td>
</tr>
<tr>
<td>Displacement cc (cu in)</td>
<td>272 (16.6)</td>
<td>406 (24.8)</td>
</tr>
<tr>
<td>Max. output hp/rpm</td>
<td>7/3,600</td>
<td>10/3,600</td>
</tr>
<tr>
<td>Max. torque kg-m (ft-lb)</td>
<td>1.5 (10.8)</td>
<td>2.3 (16.6)</td>
</tr>
<tr>
<td>Fuel consumption g/hp-h (lb/hp-h)</td>
<td>285 (0.62)</td>
<td>270 (0.59)</td>
</tr>
<tr>
<td>Starting system</td>
<td>D.C. starter motor</td>
<td></td>
</tr>
<tr>
<td>PTO shaft rotation</td>
<td>Counterclockwise</td>
<td></td>
</tr>
<tr>
<td>Dry weight kg (lb)</td>
<td>25 (55.1)</td>
<td>33 (72.7)</td>
</tr>
</tbody>
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Current customer service contact information:

Servicing dealership personnel are trained professionals. They should be able to answer any question you may have. If you encounter a problem that your dealer does not solve to your satisfaction, please discuss it with the dealership's management. The Service Manager, General Manager, or Owner can help. Almost all problems are solved in this way.

United States, Puerto Rico, and U.S. Virgin Islands:
If you are dissatisfied with the decision made by the dealership's management, contact the Honda Regional Engine Distributor for your area (www.honda-engines.com/dea.htm).

If you are still dissatisfied after speaking with the Regional Engine Distributor, you may contact the Honda Office as shown.

American Honda Motor Co., Inc.
Power Equipment Division
Customer Relations Office
4900 Marconi Drive
Alpharetta, GA 30005-8847

Or telephone: (770) 497-6400 M-F, 8:30 am - 7:00 pm EST

When you write or call, please provide the following information:

- Equipment manufacturer's name and model number that the engine is mounted on
- Engine model, serial number, and type
- Name of the dealer who sold the engine to you
- Name, address, and contact person of the dealer who services your engine
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem