

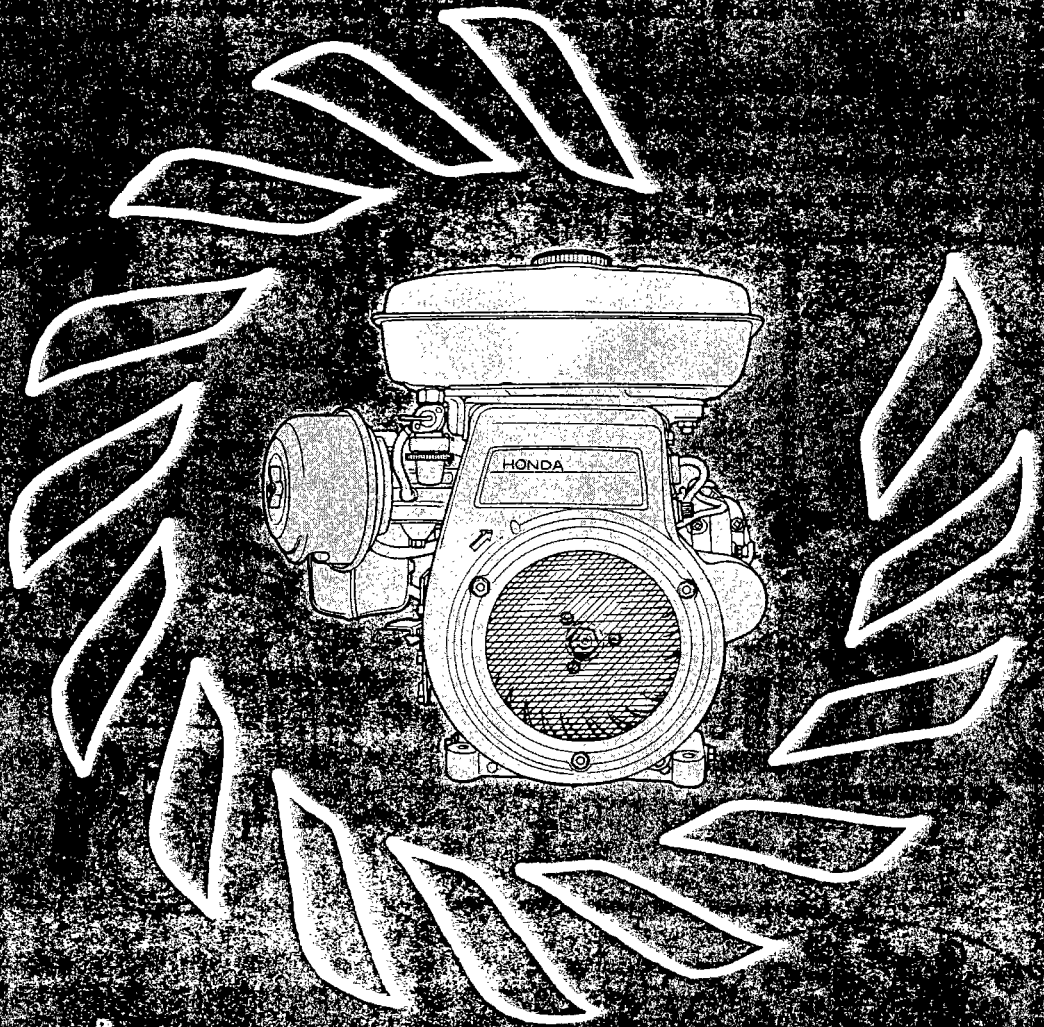
Click SAVE to save this manual to your computer. Thank you for choosing Honda.

HONDA

G300/G400

(With Electric Starter)

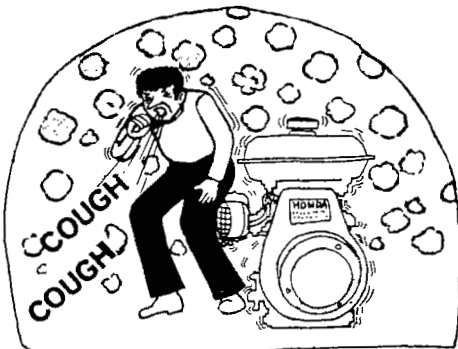
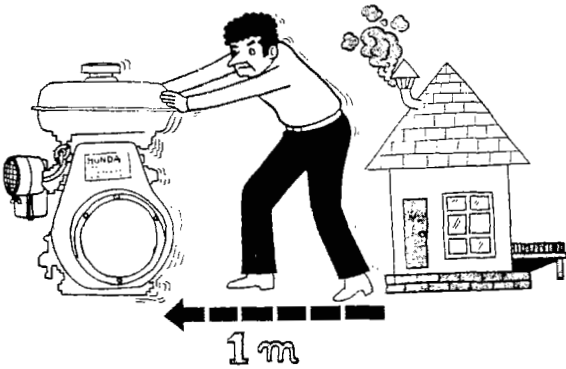
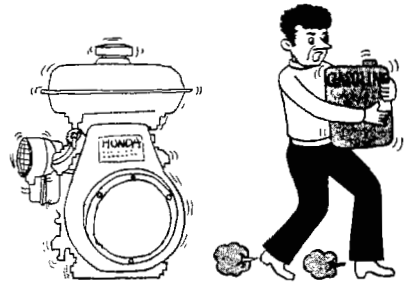
GENERAL PURPOSE ENGINE



FOR SAFE OPERATION

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.

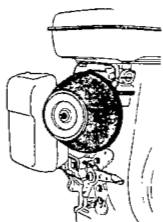


WARNING:

- ★ Exhaust contains poisonous carbon monoxide gas. Avoid inhalation of exhaust gases. Never run engine in a closed garage or confined area.

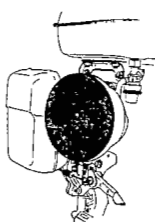
PRE-OPERATION CHECK

Dry type



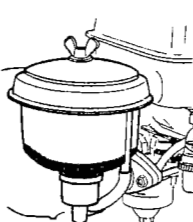
Check cleaner for dirt or obstruction of elements.

Semi dry type



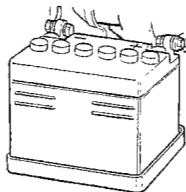
Check cleaner for dirt or obstruction of elements.

Wet type



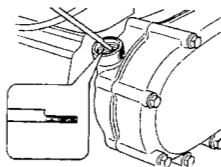
Check oil level and condition.

Check battery condition

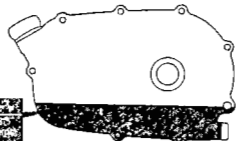


- * Be sure the fluid level of each cell is between upper and lower level marks.
- * Add distilled water if necessary.
- * Check battery ⊕ and ⊖ terminals for proper connection.

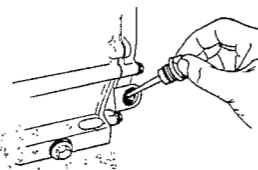
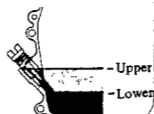
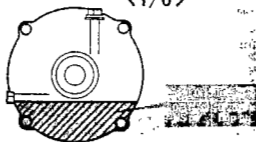
Check reduction gear oil level. Fill with "SE" rated SAE 10W-40 engine oil, if necessary.



<1/2>



<1/6>



Fill sump with "SE" rated SAE 10W-40 engine oil.

Fill fuel tank.
* Use any automotive gasoline.

Fuel filler cap

6.0 lit

1.58
US gal

1.32
Imp gal

Choke lever

Fuel valve

Air cleaner

Throttle lever

Engine switch

Spark plug

Starter motor

Muffler

Oil drain plug

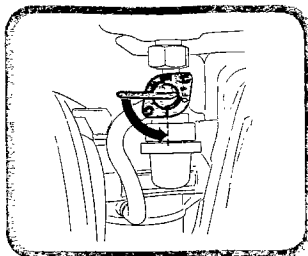
Dipstick/Filler plug

2.2 lit

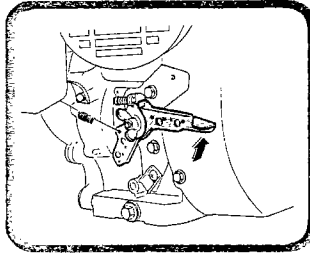
2.54
US gal

2.1
Imp gal

STARTING

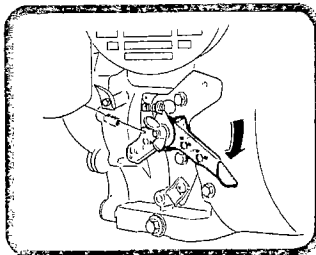


Turn the fuel valve "ON".



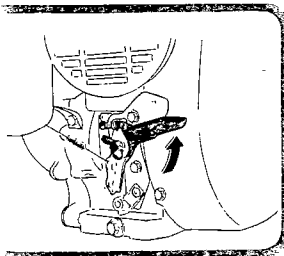
Loosen the wing nut and raise the throttle lever slightly.

STOPPING

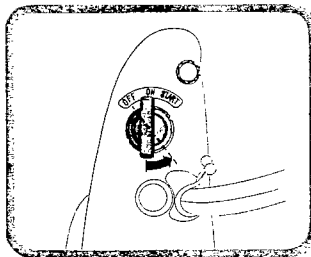


Move the throttle lever down fully.

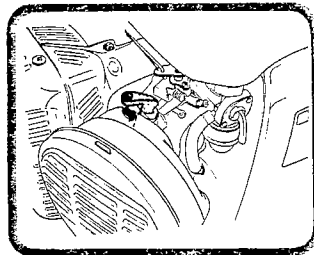
RUNNING



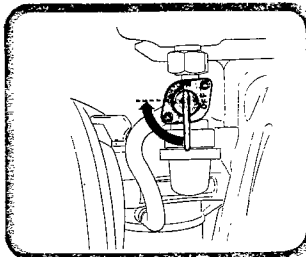
Set the throttle by tightening the wing nut at the desired speed.



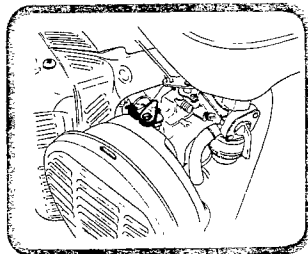
Turn the engine switch "OFF".



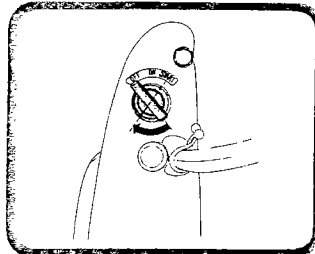
Close choke lever.



Turn the fuel valve "OFF".



As the engine warms up, gradually open the choke.

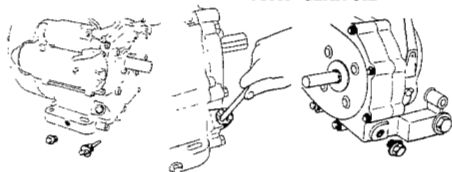


Turn the engine switch to "START".
(If engine fails to start after cranking for 10 seconds, wait 5 seconds before trying again.)

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

First 20 Hrs. operating

CHANGE ENGINE OIL AND REDUCTION GEAR OIL



After hand tightening oil filler cap, tighten with a lever.

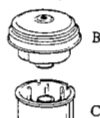
CLEAN AIR CLEANER ELEMENT



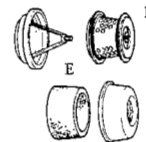
* Wash part "A" (element) in cleaning solvent. After drying, soak in oil and squeeze out the excess.

Every 50 Hrs. operating

* Clean more frequently if operating in a dusty area.



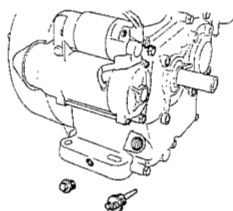
* Wash "B" and "C" in cleaning solvent. After drying, refill with clean engine oil up to oil level mark.



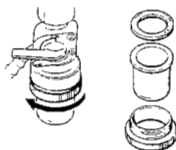
* Tap "D" and "E" lightly or blow clean by applying compressed air from the inside of the elements.

Every 100 Hrs. operating

CHANGE ENGINE OIL

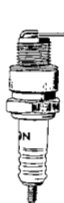


CLEAN FUEL STRAINER



* Wash removed parts in solvent, dry them thoroughly and install securely. Turn the fuel valve "ON" and check for leaks.

CLEAN SPARK PLUG AND CHECK GAP



0.6 - 0.7 mm
(.024 - .027 in)
Use NGK B-4H or BR-4HS

CDI type
0.9 - 1.0 mm
(.035 - .039 in)
Use NGK BP-4HS-10 or BPR-4HS-10

WARNING

Do not use gasoline or low flash point solvents for cleaning. They are flammable and explosive under certain conditions.

Every 300 Hrs. operating

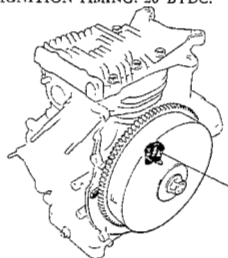
* Check fuel tube for cracks or leaks. Replace, if necessary.

ADJUSTMENT

The following adjustments should be performed by your Honda general purpose engine dealer.

ADJUST IGNITION TIMING

* Adjust contact breaker points so that they just start to open, when "F" mark on flywheel aligns with the mark on crankcase.
* IGNITION TIMING: 20° BTDC.

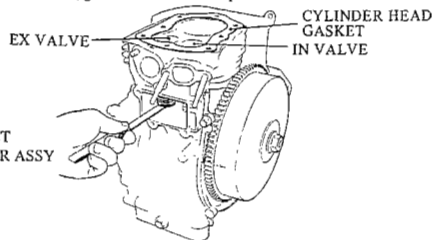


CONTACT BREAKER ASSY

The CDI type does not require adjustment.

ADJUST VALVE CLEARANCE

* Measure at TDC on compression stroke when engine is cold.
* STANDARD:
IN 0.05 - 0.11 mm (.0020 - .0043 in)
EX 0.09 - 0.15 mm (.0035 - .0059 in)
* If the clearance is less than the standard limit, grind valve stem or replace valve.



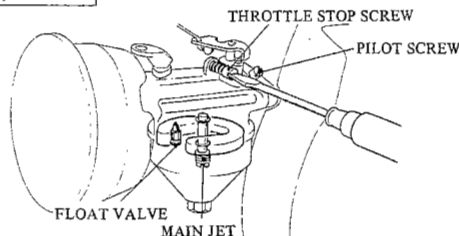
ADJUST CARBURETOR SCREWS

* Start the engine and adjust idle speed by turning the throttle stop screw.

| |
|----------------|
| Idle speed |
| 1,400 rpm ±150 |

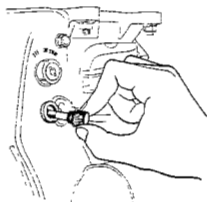
* Carburetor with pilot screw

- 1) Tighten the pilot screw until it bottoms tightly, then back it off the number of turns shown below:
G300 1 1/2 turns
G400 2 turns
- 2) Adjust idle speed as outlined left.



WARNING

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

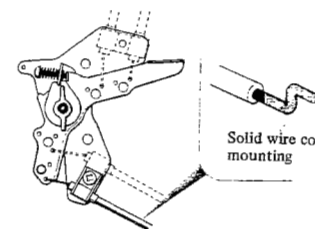


BEFORE EXTENDED STORAGE

- * Drain gasoline from fuel tank and carburetor.
- * Change engine oil and reduction gear oil.
- * Cover engine with plastic sheet.
- * Store in a dry, dust-free area.
- * Remove the wires from the battery terminals.

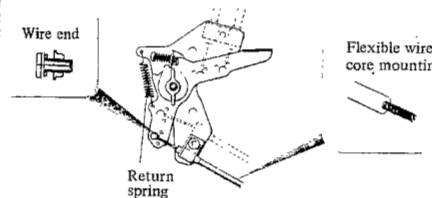
THROTTLE CONTROL

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.



Solid wire core mounting

A return spring and wire end may be used with a flexible core cable.



Wire end

Return spring

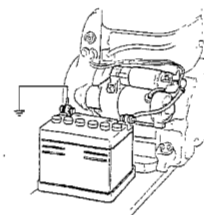
Flexible wire core mounting

BATTERY

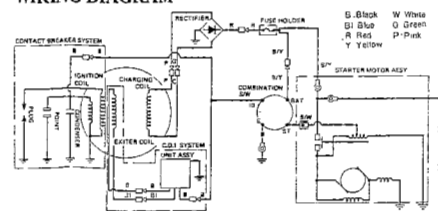
* Recommended battery is 12V-32AH.

* Use only automobile type vinyl covered wire (for low voltage) whose effective diameter is more than 4.4 mm (0.172 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



SPECIFICATIONS

* With electric starter

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

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