

**ILLUSTRATED GUIDE FOR ENGINE MODEL / TYPE / OPTION SELECTION****GX120****GX240****GX340****GX160****GX200****GX270****GX390**

## 1. SELECT OUTPUT SHAFT (PTO)

Q-shaft



S-shaft



Straight shafts: difference in diameter, Q=diameter in inch, S=diameter in mm.

V-shaft



Conical shaft for generator coupling

Short V-shaft



short conical shaft for special coupling

### REDUCTION UNITS

L-SHAFT



R-SHAFT



H-SHAFT



Output shaft speed reduction:  
1/2 of engine speed

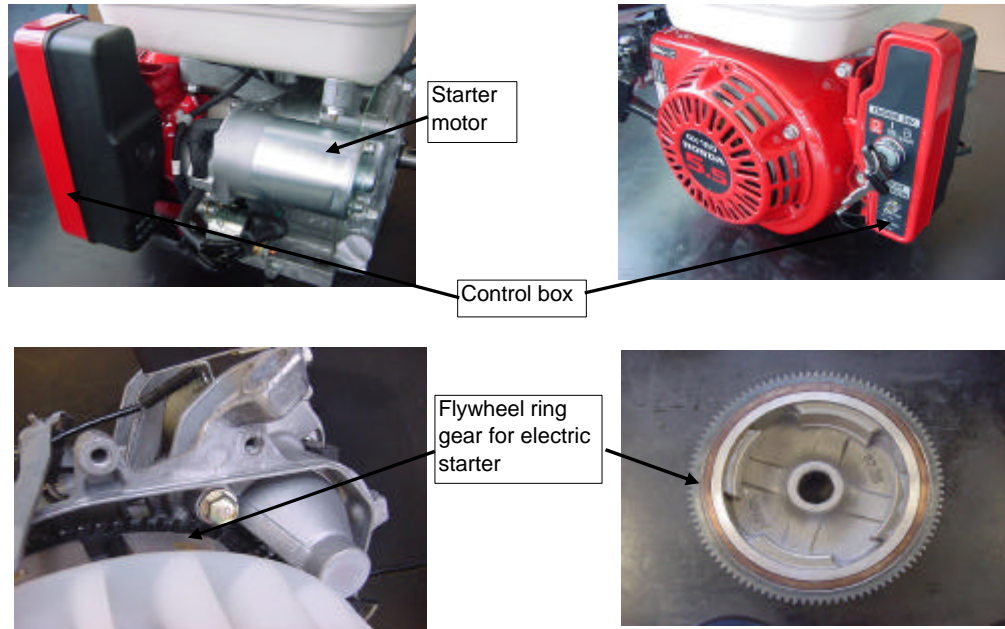
1/2 of engine speed with clutch

1/6 of engine speed



## 2. SELECT THE STARTING SYSTEM

### Electric starter



### No electric starter - recoil start only

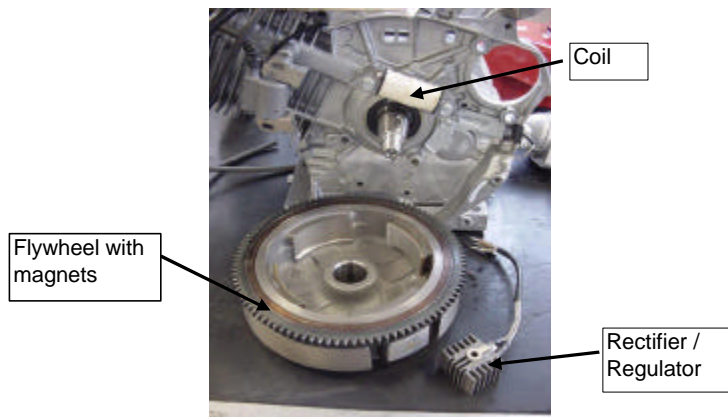


### No control box - only engine switch

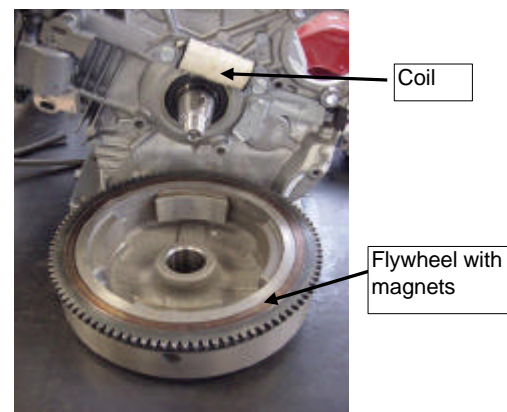


## 3. SELECT ELECTRICS: CHARGE COIL / LAMP COIL

### Charge coil



### Lamp coil

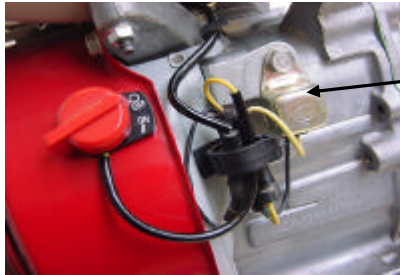


### No coil

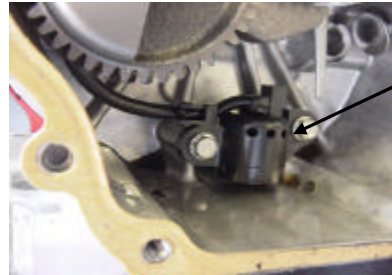


## 4. SELECT OIL ALERT

Oil alert



Electronic control unit



Oil level switch

No oil alert



## 5. SELECT AIRCLEANER

Semi-dry



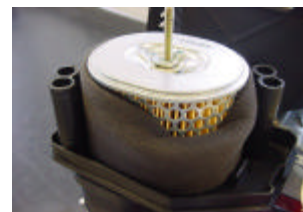
No excessive dust applications

Dual



Standard aircleaner

Silent



Low noise aircleaner

Cyclone



Excessive fine dust (construction machines), special carburetor needed

Oilbath



Sand dust applications: agriculture

Low mount



Generator application



## 6. SELECT MUFFLER

**Standard**



**Silent**



Low noise muffler

**K0 muffler**



Lightweight muffler for applications with high vibration level  
Available on GX390 only

**Low mount (generator type)**



## 7. THROTTLE CONTROL / CHOKE CONTROL

**Throttle Remote cable**



Cable holders for flexible cable

**Throttle Remote rod**



Cable holder for piano wire

**Throttle Fixed**



For fixed rpm applications

**Choke Lever**



**Choke Remote**



Cable holders for flexible cable

**Choke Diaphragm**



Automatic choke

## 8. OTHER OPTIONS

Balancer shaft



Balancer shaft for reduction of primary vibration

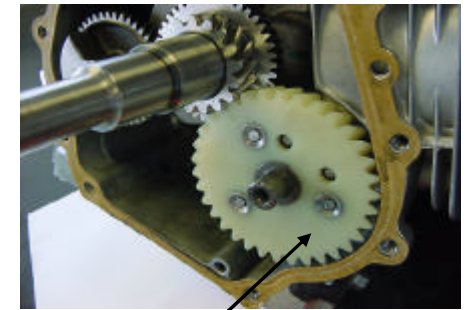
No engine switch



No fuel tank



Low noise engine



Plastic camshaft gear for noise reduction

Deflector



Stop switch as loose part



Fuel filter in-tank



Low noise engine types

Mechanical and muffler noise reduction

7-types: EU stage 1 noise reduction

9-types: EU stage 2 noise reduction

Muffler support



For high vibration applications

Spark arrester



Spark plug wrench



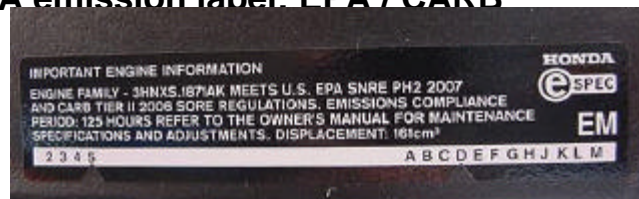
## NOTES:

## ENGINE LABELING

## U-type combined emission label: EPA / CARB / Euro2



## USA emission label: EPA / CARB



## Europe emission label: Euro2



## "Not certified" engine labels

Not certified  
for sale in  
US,CANADA,  
EU & AUS

Not certified  
for sale in  
US,CANADA  
& EU.

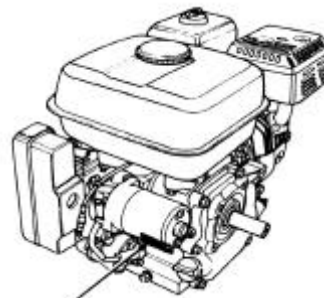
Not certified  
for sale in  
US,CANADA & AUS.



**MTOC: MODEL - TYPE -OPTION - COLOUR****G X . 1 6 0 U T 1 - Q X C 9 - O H**

. : No digit = horizontal shaft

GX : OHV engine – Professional use

Engine serial  
number and type**G X . 1 6 0 U T 1 - Q X C 9 - O H**Engine displacement cm<sup>3</sup>**G X . 1 6 0 U T 1 - Q X C 9 - O H**

U: universal type for EU, USA, Canada, Aus.

R: universal type for EU, USA (except California), Canada, Aus  
( not certified for CARB 3 evaporative emissions-no fuel tank)

. : manufactured in Japan

T: manufactured in ASH (Thailand)

H: manufactured in JLH (China)

K1, U1, T1, H1, R1: Indication of minor model change

K2, U2, T2, H2, R2: Indication of second minor model change

**G X . 1 6 0 U T 1 - Q X C 9 - O H****OUTPUT SHAFT TYPE (PTO)**

Q : Straight, imperial (inch)

S : Straight, metric (m)

V : Tapered

H : 1/6 reduction

R : 1/2 reduction + clutch

L : 1/2 reduction

The following 3 digits in the MTOC code can be  
individualised and are not linked to a systematic coding.**G X . 1 6 0 U T 1 - Q X C 9 - O H**

X : Oil alert

**G X . 1 6 0 U T 1 - Q X C 9 - O H**

E : Electric start

M : Oil bath aircleaner

C : Cyclone aircleaner

**G X . 1 6 0 U T 1 - Q X C 9 - O H**

7 : Low noise type

9 : Low noise type, stage 2

**G X . 1 6 0 U T 1 - Q X C 9 - O H****COLOUR CODE**

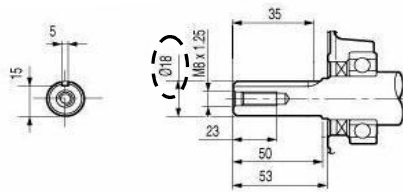
OH : (R280) Bright red

SD : (NH1) Black

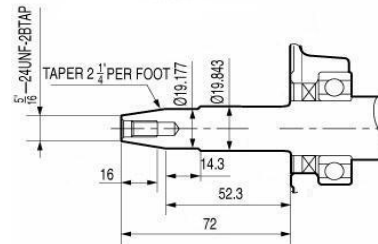


# OUTPUT SHAFT (PTO) DIMENSIONS

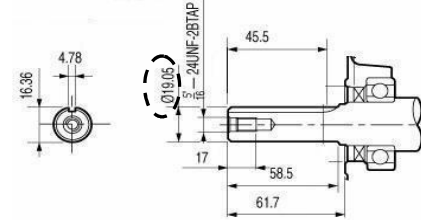
S-shaft GX120



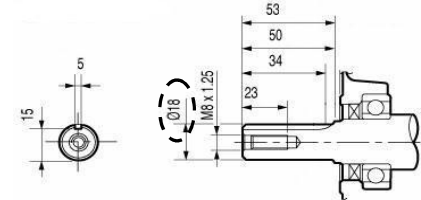
V-shaft GX120 / 160 / 200



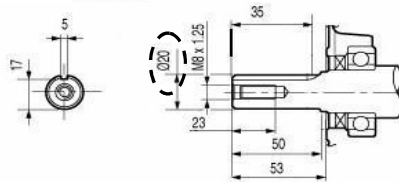
Q-shaft GX120 / 160 / 200



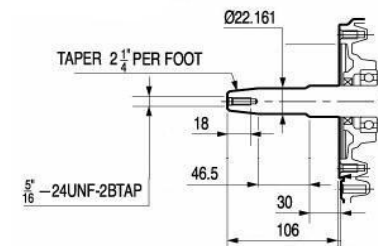
L-shaft GX120



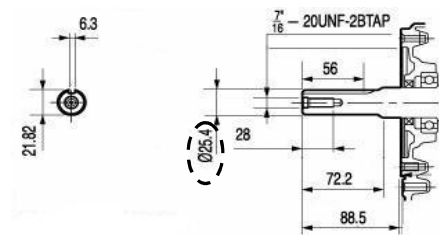
S-shaft GX160 / 200



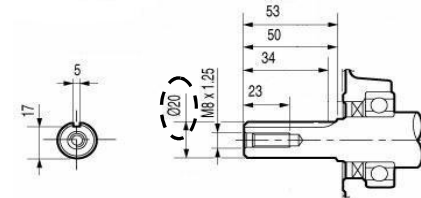
V-shaft GX240 / 270 / 340 / 390



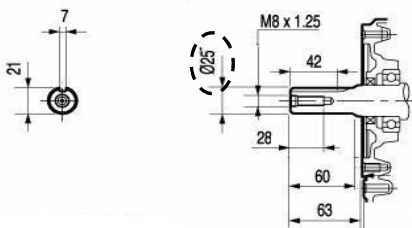
Q-shaft GX240 / 270 / 340 / 390



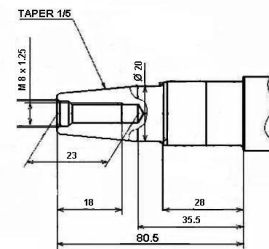
L-shaft GX160 / 200



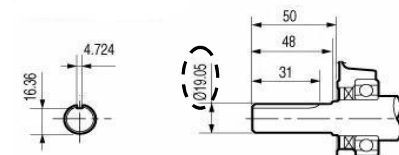
S-shaft GX240 / 270 / 340 / 390



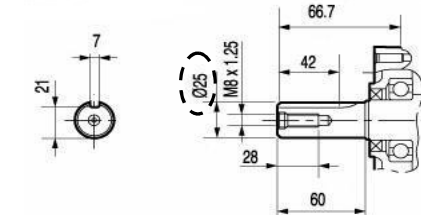
V-shaft SHORT GX200



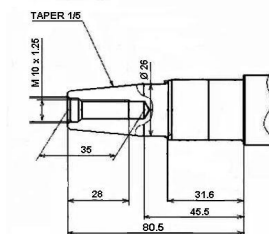
H-shaft GX120 / 160 / 200



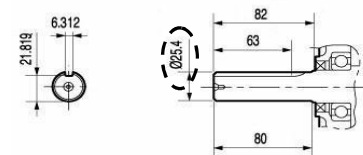
L-shaft GX240 / 270 / 340 / 390



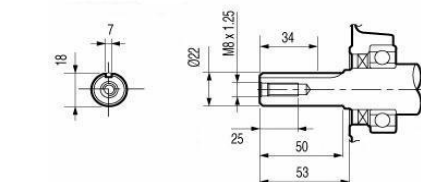
V-shaft SHORT GX270



H-shaft GX240 / 270

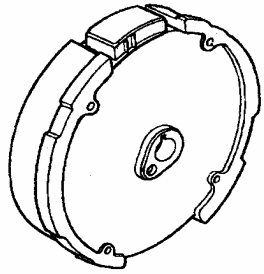


R-shaft GX120 / 160 / 200 / 240 / 270

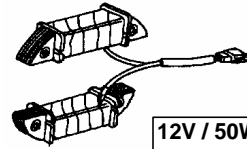
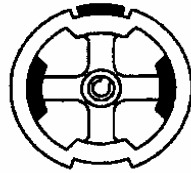


## STARTING SYSTEM / CHARGE COIL / LAMP COIL COMBINATIONS

STANDARD FLYWHEEL:  
NO ELECTRIC START,  
NO COILS



FLYWHEEL: 2 MAGNETS, NO ELECTRIC START



12V / 50W

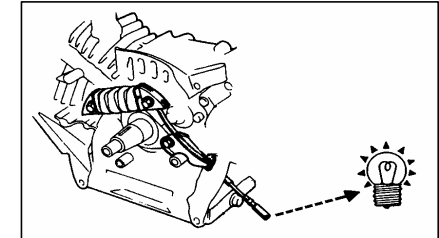


12V / 25W

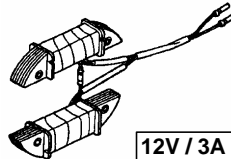
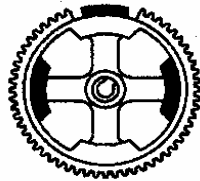
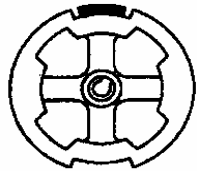
For lighting equipment only

LAMP COILS

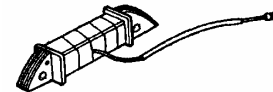
Connection



FLYWHEEL: 2 MAGNETS, ELECTRIC START



12V / 3A

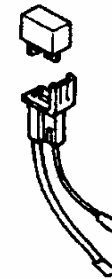


12V / 1A

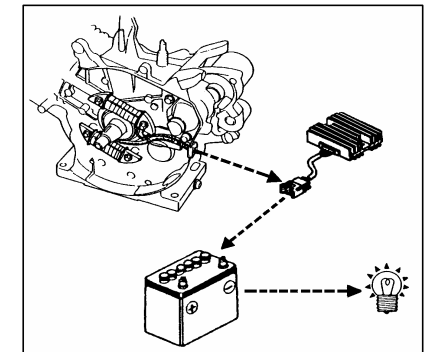
For battery charging

CHARGE COILS

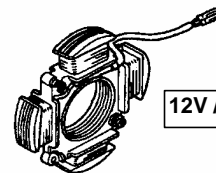
Connection



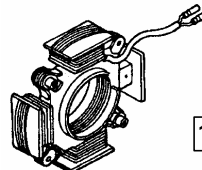
Rectifier 1A, 3A



FLYWHEEL: 4 MAGNETS, NO ELECTRIC START, ELECTRIC START

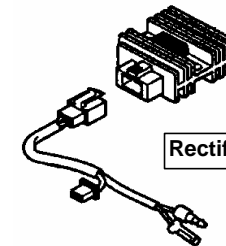


12V / 7A, 12V / 10A

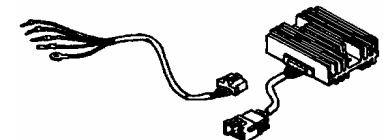


12V / 18A

For battery  
charging and  
electrical  
equipment:  
electric clutch,  
electric motor

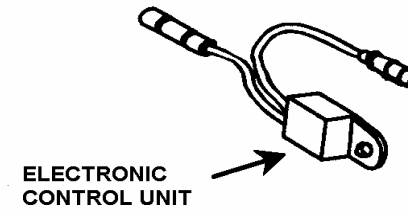
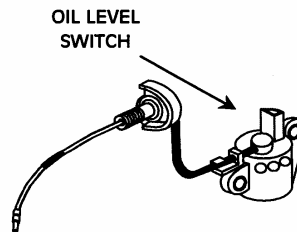
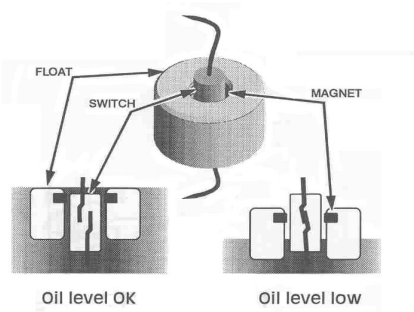


Rectifier / Regulator 7A / 10A / 20A

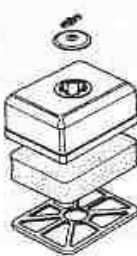
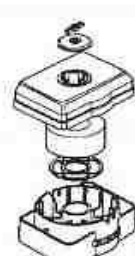





## OIL ALERT / AIRCLEANER

**OIL LEVEL SWITCH: SWITCHES OFF THE ENGINE WHEN OIL LEVEL IS TOO LOW**



### Aircleaner types and application

	Semi-dry	Oil bath	Dual	Silent	Cyclone
Type					
Application	No excessive dust	Excessive dust, fine dust - Not suitable for inclined operation - Leads to reduced power if not maintained regularly	Excessive dust	Excessive dust Noise reduction	Excessive dust Extension of maintenance
Filtering efficiency	99.1 %	97.8 %	99.8 %	99.8 %	99.9 %

**Low mount aircleaner / muffler : generator application**





**MUFFLER / THROTTLE - CHOKE CONTROL**

Engine accessory:  
Cable holder



K0 muffler on concrete saw application  
(high vibration level application)



## ENGINE ACCESSORIES

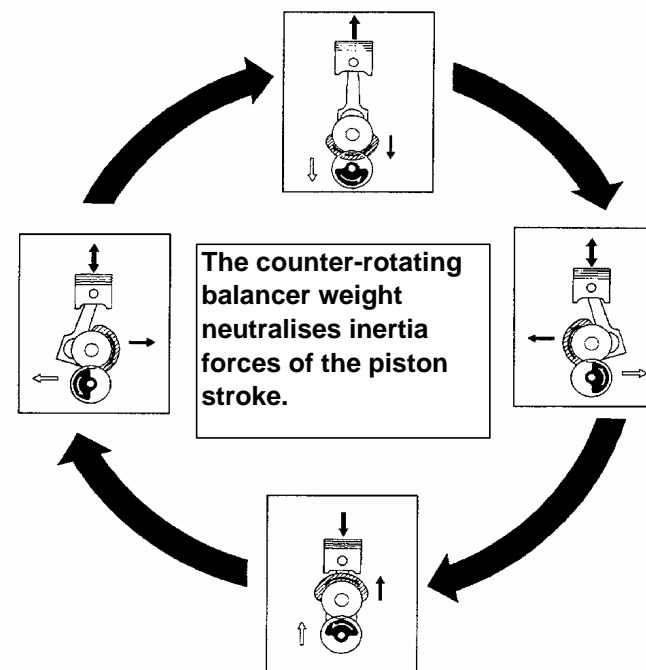
Engine accessory: deflector long / deflector short



Not applicable on low mount mufflers



Function of the balancer shaft



## Output shaft keys:

6.3 x 6.3 x 43



P No.90745-ZE2-600

7 x 7 x 33



P No.90741-889-810

5 x 5 x 33



P No.90741-883-810

4.8 x 4.8 x 38



P No.90745-ZE1-600