

Messrs. _____

L-0 model

| | | |
|------------------|----|----|
| Sebango code: AZ | MH | PT |
| Assy / B1: | | |
| TB / C1: | | |
| Pack / F1: | | |
| Prod.Eng: | | |
| Data: | | |

| | |
|-------------------|--------------------|
| Drawing No. | G2-14220-0010(1/3) |
| DATE | Nov. 30th, 2005 |
| Revision No. | |
| Revision Date | |
| Design model ID | 714220B |
| Product. model ID | 114220A |

Engine Specification

For L70N6CA1T1AA

(Standard for General : Starting motor)



| Contents | | |
|---------------------------|-------------------|--------------------|
| Engine specifications | | G2-14220-0010(2/3) |
| Engine performance | | G2-14220-0010(2/3) |
| Details of specifications | | G2-14220-0010(3/3) |
| Attached | Outline | B2-14220-0010 |
| | Labels | G2-14220-2010 |
| | Performance curve | |
| | Tools | C2-14110-0010 |
| | Wiring | E2-14110-0010 |

| | |
|----------|--|
| Revision | (Nov.30th.2005)Registered by YITILU050092 After finishing Test in YJ,we will reissue with Spring Position & Performance Curve etc |
|----------|--|



YANMAR CO.,LTD.

| YI Engineering Dept. | | |
|----------------------|--------------|--------------|
| Manager | Checked | Drawn |
| J. Sano | S. Nishimura | S. Nishimura |

| | | | |
|--------------|--|--|--|
| Revision No. | | | |
|--------------|--|--|--|

G2-14220-0010 (2/3)

1.Engine Specification

| | | | |
|---------------------------------------|-----------------------|----------------------|---|
| Model name | | | L70N6CA1T1AA |
| Type | | | 4-stroke,vertical-cyl,air-cooled diesel |
| Combustion system | | | Direct injection |
| No. of cyl.-bore × stroke | mm | | 1- φ 78 × 67 |
| Displacement | | liter | 0.320 |
| Output | Continuous | kW/min ⁻¹ | * 4.4 (6.0PS ,5.9HP) / 3600 |
| | Maximum | kW/min ⁻¹ | * 4.9 (6.7PS ,6.6HP) / 3600 |
| PTO Shaft | PTO position | | Crankshaft |
| | Direction of rotation | | Counterclockwise viewed from PTO side |
| Injection Timing (FIC-air) | | deg. | bTDC.13.0 ± 1.0 |
| Fuel | Oil selection | | Diesel fuel |
| | Tank capacity | liter | 3.3 |
| Lubricating | Oil selection | | SAE 10W30,API grade CD or higher |
| | Oil capacity | liter | 1.1 (effective,0.4) |
| Cooling system | | | Forced air cooling by flywheel fan |
| Starting system | | | Starter motor with re-coil starter |
| Governor | | | All speed type, mechanical |
| Balancer shaft | | | Single balancer shaft |
| Air cleaner | | | Dry type paper element filter |
| Exhaust silencer | | | Expansion silencer with cover |
| Generator (at 3600min ⁻¹) | | | Flywheel dynamo :12V-15A |
| Dimensions | | mm | Indication in outline drawing |
| Dry weight | | kg | Approx. 41.0 |

* Output is given for normal atmosphere conditions and Specs,

which are defined as follows:

- Atmospheric pressure: 100 kPa (750mmHg)
- Atmospheric temperature: 25°C
- Relative humidity: 30%

2.Engine performance

| | | | | |
|----------------------------------|--------------------------------|-------------------|--------------|---|
| Speed at no load | Minimum | min ⁻¹ | 1200 or more | PTO Shaft (Without minimum idling speed adjust bolt. Adjustable figure by your end.) |
| | Maximum | | 3800 ± 30 | |
| Governor regulation | Instantaneous speed difference | % | 8 or less | |
| | Permanent speed change | | 5 or less | |
| | Recovery time | sec. | 5 or less | |
| | Speed fluctuation | min ⁻¹ | 30 or less | |
| Permissible angle of inclination | Continuous | deg. | 20 | Operation of up to 3 minutes |
| | Intermittent | | 30 | |
| Lowest start temperature | Re-coil starting | °C | 0 | Without starting aid agent |
| | Electric starting | | -10 | |

| | | | |
|--------------|--|--|--|
| Revision No. | | | |
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G2-14220-0010 (3/3)

3.Details of specifications (STD SPEC. L70N6CA1T1AA)

| System | Part name | Code | STD Spec. | Specification | Remarks |
|---------------------------|--|------|--------------|---------------|----------------------|
| Fuel System | Fuel tank | Bm-a | 2 | same as STD. | Color : Yanmar Black |
| | Tank stay (A) | | 114210-55210 | same as STD. | |
| | Tank stay (B) | | 114210-55230 | same as STD. | |
| | Nozzle, Fuel injection | | 714220-53100 | same as STD. | |
| Lubricating System | Oil pressure switch | Cm-a | NA | same as STD. | |
| Cooling System | Flywheel | Dm-a | 114399-21590 | same as STD. | DE Type |
| | Fan case | Dm-b | 114210-45100 | same as STD. | Color : Gold Silver |
| | Eng cover | Dm-c | 3 | same as STD. | |
| | | | | | |
| Electric System | Electric Regulator & Harness, wire | - | 114399-77550 | same as STD. | For 12V-15A |
| | Dynamo Assy. | - | 114399-78260 | same as STD. | |
| | Air heater | Em-a | NA | same as STD. | |
| PTO&Flange | Crankshaft | Fm-a | 5 | same as STD. | E-D type |
| | Crank case cover | - | 114210-01450 | same as STD. | E-D type |
| Intake and Exhaust System | Air cleaner | Gm-a | 3 | same as STD. | |
| | Intake bend | Gm-b | NA | same as STD. | |
| | Silencer | Gm-c | 3 | same as STD. | |
| Starting System | Recoil starter Assy. | Hm-a | 2 | same as STD. | |
| | Starting motor | Hm-b | 114362-77011 | same as STD. | |
| Speed Control System | Control device Assy. | Im-a | 1 | same as STD. | General type |
| | Governor lever Assy. | - | 114211-61500 | same as STD. | 2 lever type |
| | Fuel limiter Assy. | - | 114211-66600 | same as STD. | Torque limiter type |
| Decomp system | Bonnet | Lm-a | 3 | same as STD. | |
| Remarks | Fuel oil limiter : Locked by wire High idle adjust bolt : Locked by wire Lubricating Oil : Not provided Fuel Pump Model : N3A Recoil Angle: R2 | | | | |
| Loose parts | Key switch panel CMP | | 114351-77500 | same as STD. | |
| | Connector | | NA | same as STD. | |
| | Deflector | | 114299-13800 | same as STD. | |
| | Tools | | 114299-92590 | same as STD. | |

LABELS

G2-14220-2010

| No. | L A B E L S | P L A C E | C O N T E N T S |
|-----|-----------------------|------------------|-----------------------|
| 1 | LABEL, ENGINE NAME | COVER (CYLINDER | ————— |
| 2 | LABEL, YANMAR MARK (A | F. O. TANK | THE FOLLOWING DETAILS |
| 3 | LABEL, CAUTION | F. O. TANK | // |
| 4 | LABEL, HOW TO START | F. O. TANK | // |
| 5 | LABEL, YANMAR MARK (B | FANCASE, COOLING | // |
| 6 | LABEL, DIESEL | RECOIL STARTER | // |
| 7 | LABEL, DECOMP | COVER, TOP | // |
| | | | |

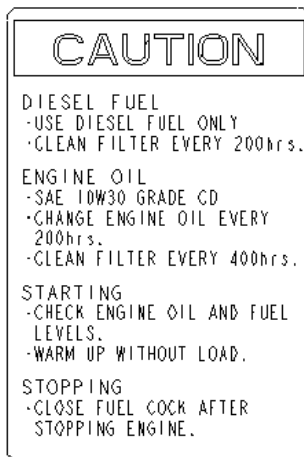
② LABEL, YANMAR MARK (A



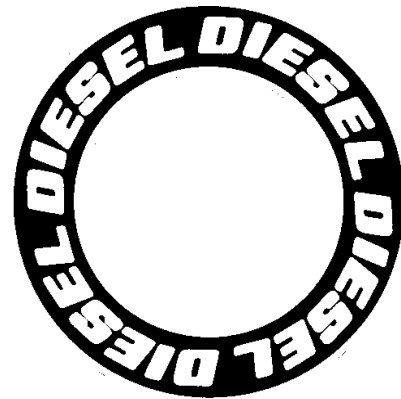
⑤ LABEL, YANMAR MARK (B



③ LABEL, CAUTION



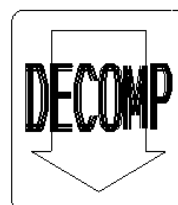
⑥ LABEL, DIESEL



④ LABEL, HOW TO START

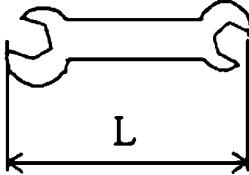
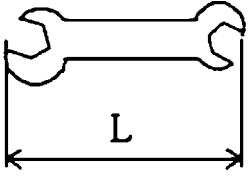
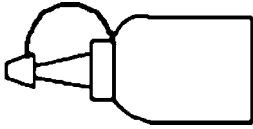
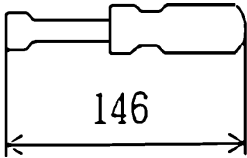
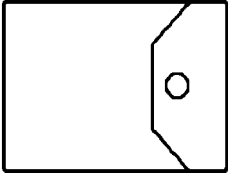


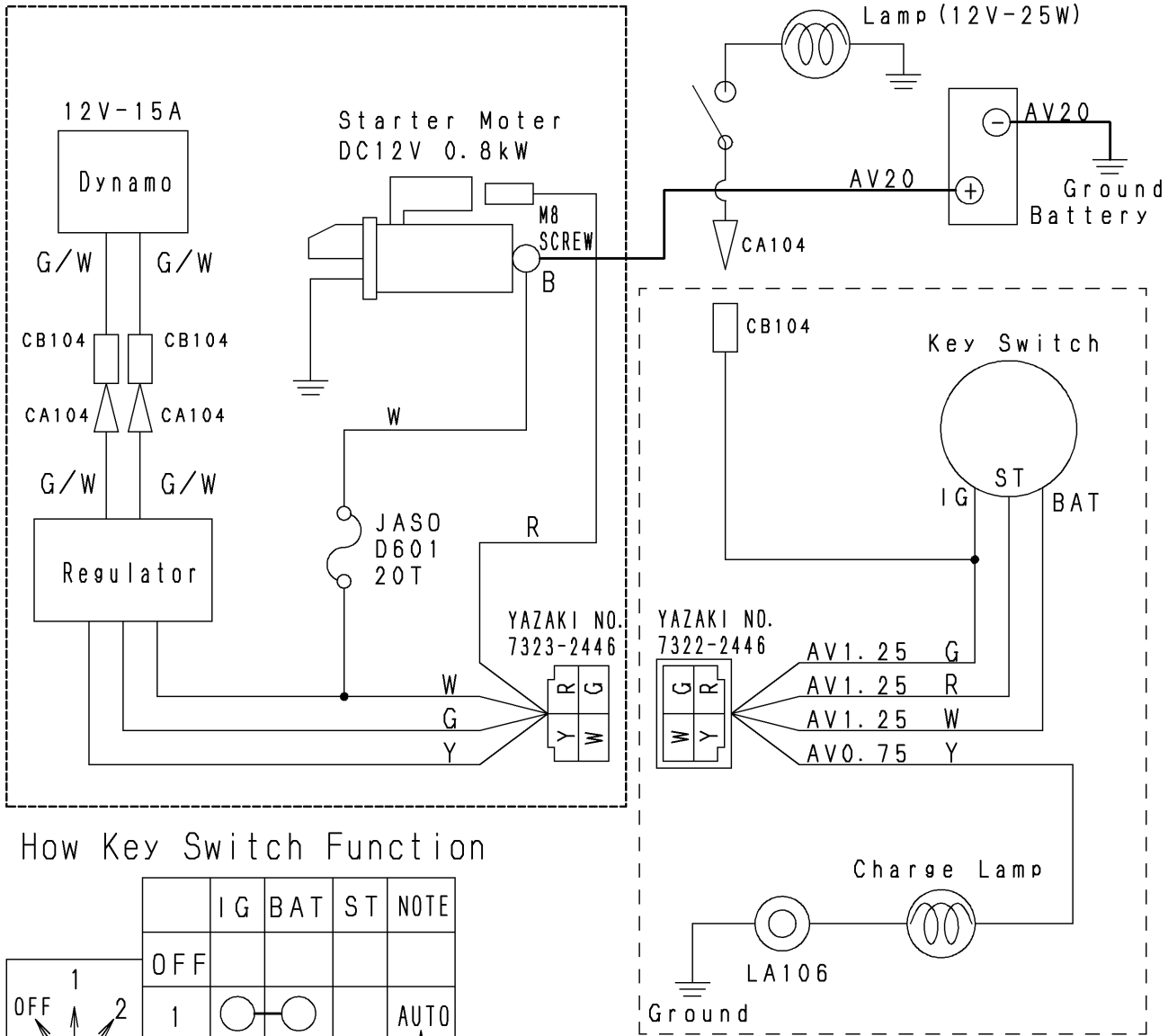
⑦ LABEL, DECOMP



標準工具 TOOLS

C2-14110-0010

| 区分 ITEM | 名称 DESCRIPTION | 部品コード及び略図 PART NUMBER | 材質 MATERIAL | 個数 Q'ty | 備考 NOTES |
|------------|--------------------------|---|--|------------|-------------|
| 1 | 両口スパナ WRENCH 14×17 | 114299-92720  | UNI EN 10083/1 C40 | 1 | L=163 |
| 2 | 両口スパナ WRENCH 10×12 | 114299-92710  | UNI EN 10083/1 C40 | 1 | L=128 |
| 3 | 油さし FEEDER, OIL | 114299-92740  | 合成樹脂 POLYETHYRENE | 1 | |
| 4 | +-ねじまわし SCREWDRIVER | 114299-92730  | UNI EN 10083/1 C40 & 合成樹脂 PVC | 1 | |
| 5 | 工具袋 BAG, TOOL | 114299-92600  | 黒色ビニール PVC | 1 | |



How Key Switch Function

| | IG | BAT | ST | NOTE |
|-----|-------|-----|----|------|
| OFF | | | | |
| 1 | ○—○ | | | AUTO |
| 2 | ○—○—○ | | | ↑ |

* G:Green
W:White
Y:Yellow
R:Red

NOTE:

1. Be sure to ground both engine and engine-driven machine
2. Section enclosed with dotted square is pre-wired at Yanmar factory.
Section enclosed with alternate long and short dash line is the section included in engine packing.
For this section, purchaser is expected to:
 - 1) connect 4P coupler.
 - 2) secure charge lamp ground (LA106) with bolt (M6)
 - 3) Receptacle of pin-type terminal (CB104) outputs up to 12V/25W.
3. Locally procure
 - 1 battery (24AH-36AH)
 - 2 battery cable (AV20)
 - 3 lamp (12V-25W), switch and cable (AV1.25)