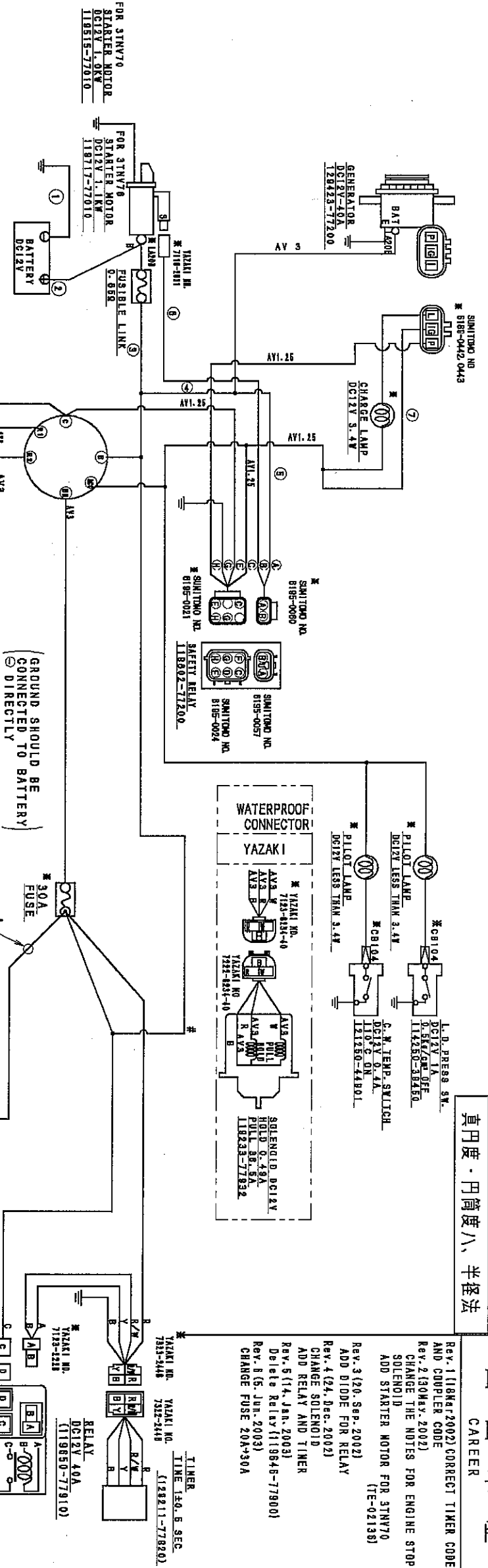


要	購買仕様書	検査基準書	品質管理工程図	特別管理部品	量産初期安定管理部品
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MARK	COLOR
B	Black
W	White
R	Red
L	Blue
G	Green
Y	Yellow
Br	Brown
Lg	Light Green
Sb	Sky blue
O	Orange
P	Pink
Gr	Gray
R/W	Red/White

PRE-HEATING	B	R1	R2	ACC	C	BR
OFF	○	○	○	○	○	○
ON	○	○	○	○	○	○
START	○	○	○	○	○	○

KEY SW. DIAGRAM

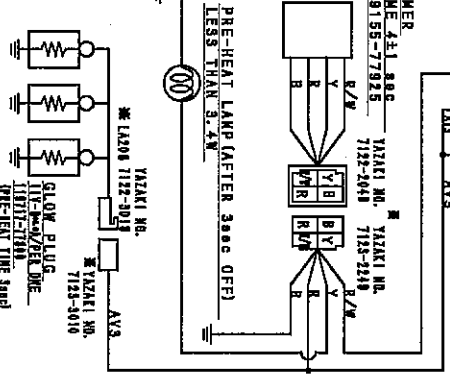


NOTES

1. WIRING OF STARTER MUST BE OBSERVED AS FOLLOWS. OTHERWISE IT CAUSES MISS STARTING OR DAMAGE OF STARTER MOTOR.
- 1-1. TOTAL ELECTRIC RESISTANCE OF BATTERY CABLE (①+②) SHOULD BE LESS THAN 2/1000Ω. REFERENCE: AV15:51.4m, AV20:52.2m, AV30:53.8m, AV40:54.6m
- 1-2. TOTAL ELECTRIC RESISTANCE OF WIRING FOR STARTER (③+④) SHOULD BE LESS THAN 5/1000Ω. REFERENCE OF TERMINAL RESISTANCE : 15/1000Ω PER COUPLER 0Ω PER SCREW SETTING
- 1-3. BATTERY EARTH CABLE (⑤) CONNECTION SHALL BE ENSURED. PAINTED SURFACE MAY NOT BE USED (FOR EARTHING) AVOIDING THE MISS CONTACT.
2. BATTERY TREATMENT MUST BE OBSERVED AS FOLLOWS. OTHERWISE IT MAY CAUSE BURNING OF ELECTRIC EQUIPMENTS OR COMPONENTS. ALTERNATOR (DIODES) BURNING CAUSED BY BATTERY CABLE CONNECTION REVERSELY IS NOT WARRANTED.
- 2-1. BATTERY SHOULD BE FIXED BY FITTING. (NOT TO MOVE)
- 2-2. BATTERY CABLE LENGTH SHOULD BE ADJUSTED PROPERLY AND CLAMPED NOT TO BE CONNECTED REVERSELY.
- 2-3. NOT LOOSE THE BATTERY SWITCH OFF DURING THE ENGINE RUNNING.
3. ONLY THE SPECIFIED LOAD SHOULD BE APPLIED ON THE ALTERNATOR 'L' AND 'P' LINE. IT IS NOT ALLOWED TO CONNECT ANY LOAD UNSPECIFIED WITHOUT YANMAR APPROVAL.
4. CHECK ANY SURGE CURRENT OR VOLTAGE OCCURED UNDER NORMAL OPERATIONS AND EXCEPTIVE ERRONEOUS OPERATIONS. AND CONFIRM THE CIRCUIT NO SURGE OCCURS. ESPECIALLY PROVIDE THE FLYWHEEL DIODE FOR 'C-LOAD' AND DIODE FOR 'L-LOAD'.

NOTES FOR ENGINE STOP SOLENOID

1. PERMISSIBLE RESISTANCE OF SOLENOID CIRCUIT SHOULD BE LESS THAN 0.07Ω TO GUARANTEE PERMISSIBLE LOWEST VOLTAGE 9V TO WORK SOLENOID (PULL COIL). (TERMINAL RESISTANCE : 15/1000Ω PER COUPLER. 0Ω PER SCREW SETTING.)
- COUPLER RESISTANCE OF SOLENOID DOESN'T NEED TO BE COUNTED) REFERENCE: AV210.0088Ω/m; 512.5m... WITHOUT TERMINAL RESISTANCE AV310.0056Ω/m; 512.5m... SAME AS ABOVE
- WHEN YOU EXCEED PERMISSIBLE RESISTANCE, ADAPT THE CIRCUIT IMPRESSED FROM THE POWER SUPPLY TO THE SOLENOID DIRECTLY USING A RELAY ... REFER TO #
2. HIGH TEMPERATURE PARTS, SUCH AS AN EXHAUST PIPE, SHOULD NOT APPROACH FOR THE PULL POWER FALL OF SOLENOID AND HEATING PREVENTION OF INNER COIL TEMPERATURE. (PERMISSIBLE AMBIENT TEMPERATURE: -30~100℃)
3. INSTALL FUSE TO PROTECT THE HARNESS AGAINST TROUBLES SUCH AS SHORT CIRCUIT OR CONTINUOUS DRIVE OF PULL-COIL.
4. THE POWER SUPPLY OF SOLENOID MAY NOT BE COMMON WITH THE LINE OF ALTERNATOR INITIAL EXCITATOR AS SHOWN IN THIS DRAWING. (OTHERWISE, SOLENOID MAY LOOSE STOP FUNCTION DUE TO THE POWER SUPPLY FROM ALTERNATOR 'L' TERMINAL.)
5. IN CASE OF WATERPROOF CONNECTOR OR APPLICATION, CONNECTOR SHOULD BE FIXED BY FITTING TO PREVENT LEAD WIRE BREAK.
6. IN CASE OF EMERGENCY STOP OF MACHINE FOR SAFETY WILL BE APPLIED. SWITCH LOCATION SHOULD BE SHOWN AS A.
7. IN CASE OF THE SOLENOID CIRCUIT RESISTANCE WOULD BE LIMIT. # WIRING IS APPLICABLE.



REMARKS

1. * MARKED PARTS ARE NOT PROVIDED BY YANMAR.

設計者 R. Moberg	設計 DATE 2002	年 月 日	名称 WIRING DIAGRAM
主査 R. Moberg	主査 DATE 2002	年 月 日	名称 WIRING DIAGRAM
検査 R. Moberg	検査 DATE 2002	年 月 日	名称 WIRING DIAGRAM
承認 R. Moberg	承認 DATE 2002	年 月 日	名称 WIRING DIAGRAM

YANMAR CO., LTD.	ENGINE PRODUCT OPERATIONS DIV.
REV. 2 (REV. 3) REV. 4 (REV. 5) REV. 6	CODE E3-19717-0080

完成検査	検査済
組立検査	検査済
部品検査	検査済
工程検査	検査済
最終検査	検査済
その他	検査済

