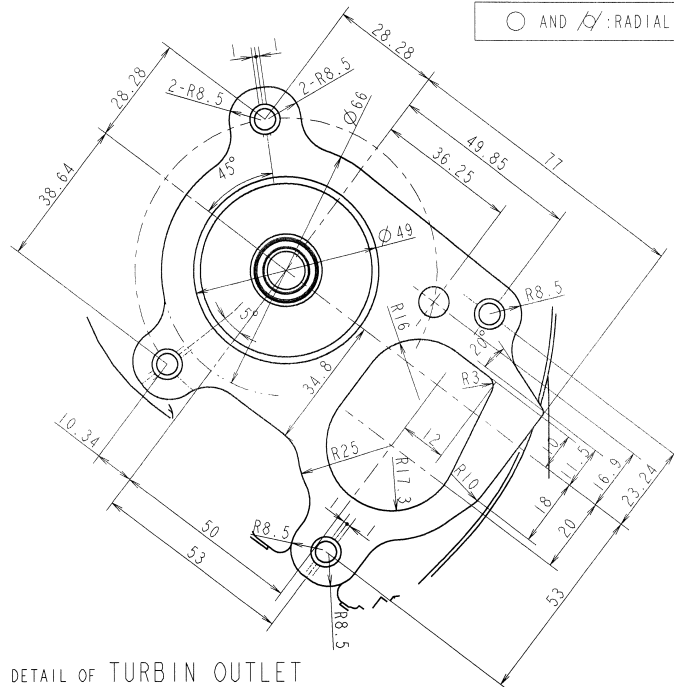
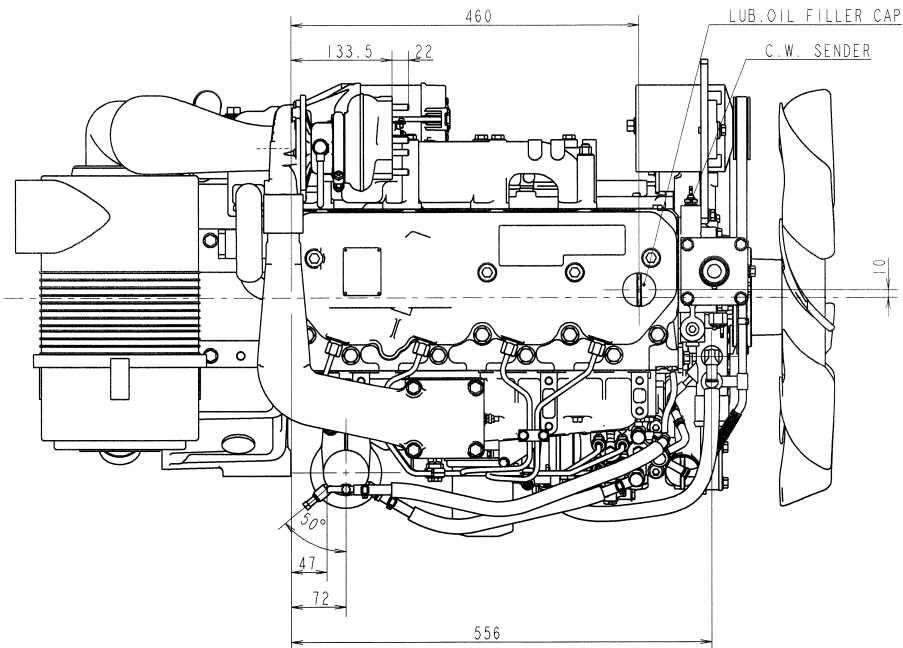
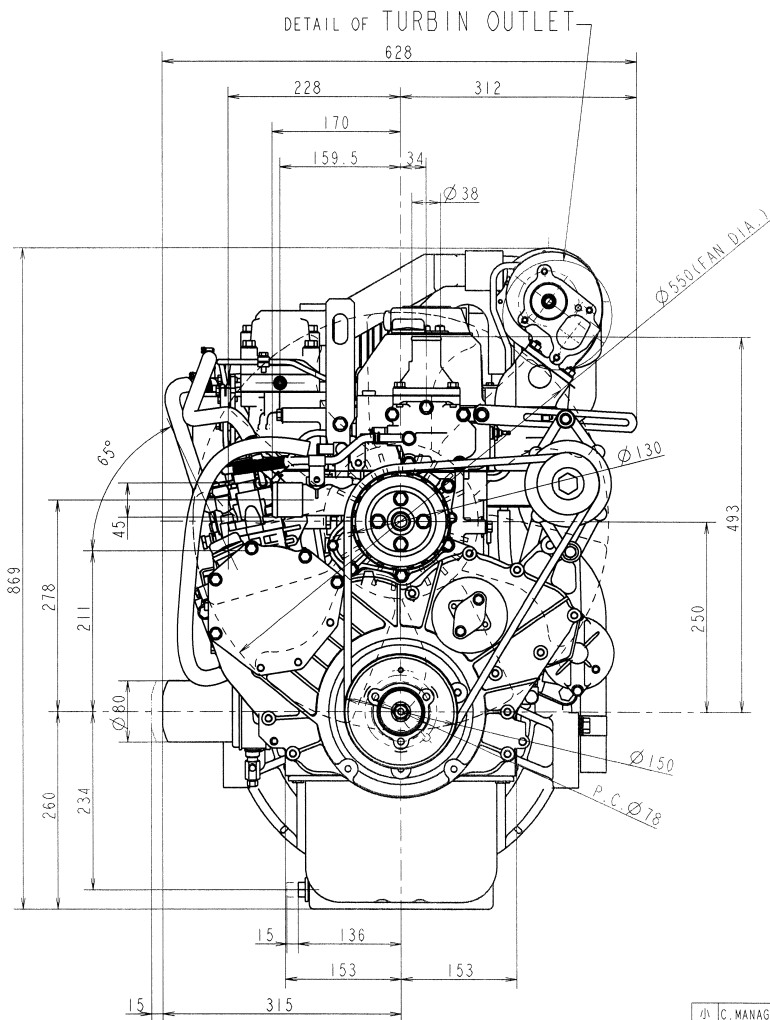
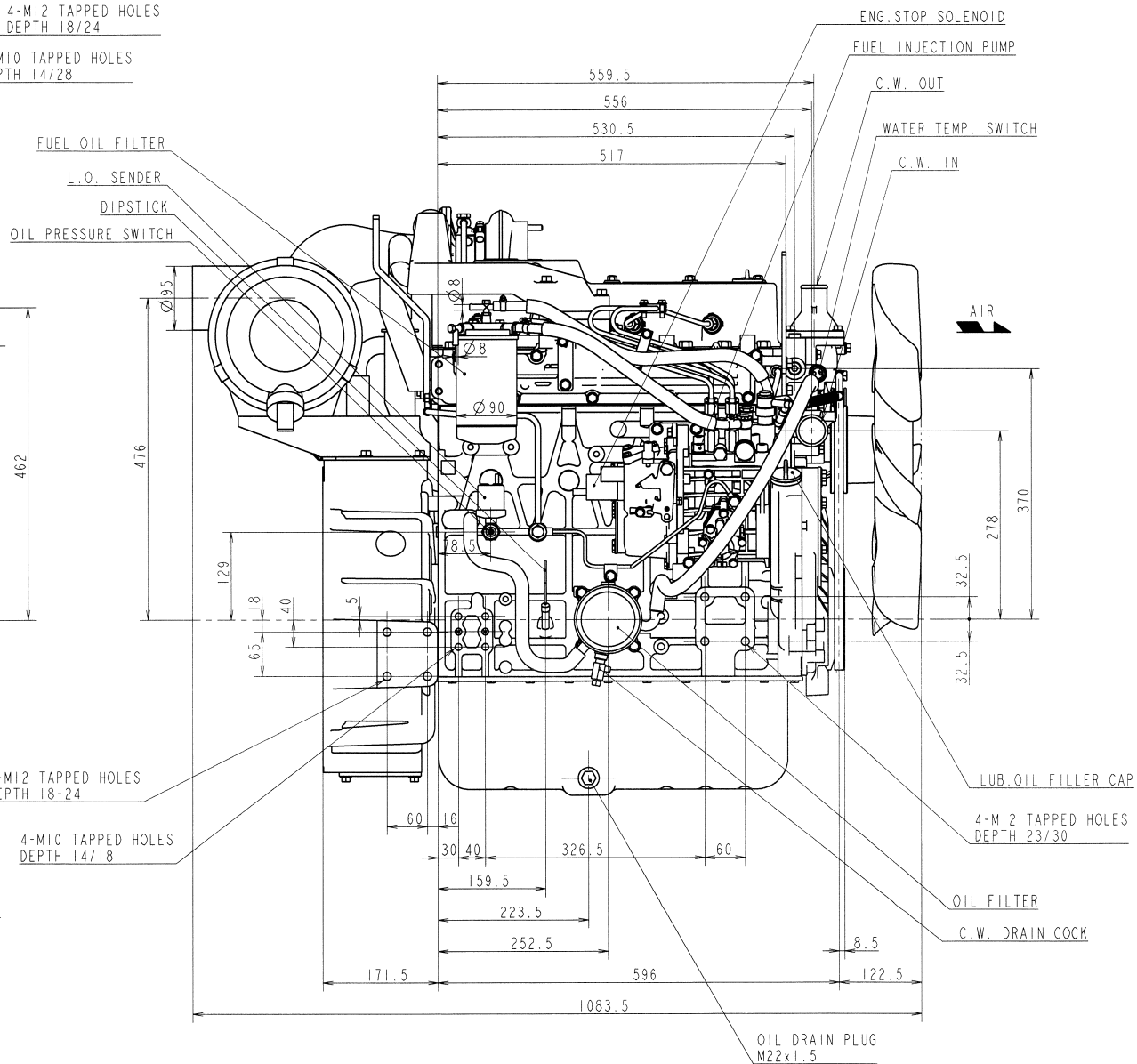




DETAIL OF TURBIN OUTLET
SCALE 1:1



AR	CODE							SIZE	A

YANMAR

POWER SYSTEM OPERATIONS DIV., YANMAR CO., LTD.

CODE

B3-23947-0020

A
DRAW SIZE

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

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

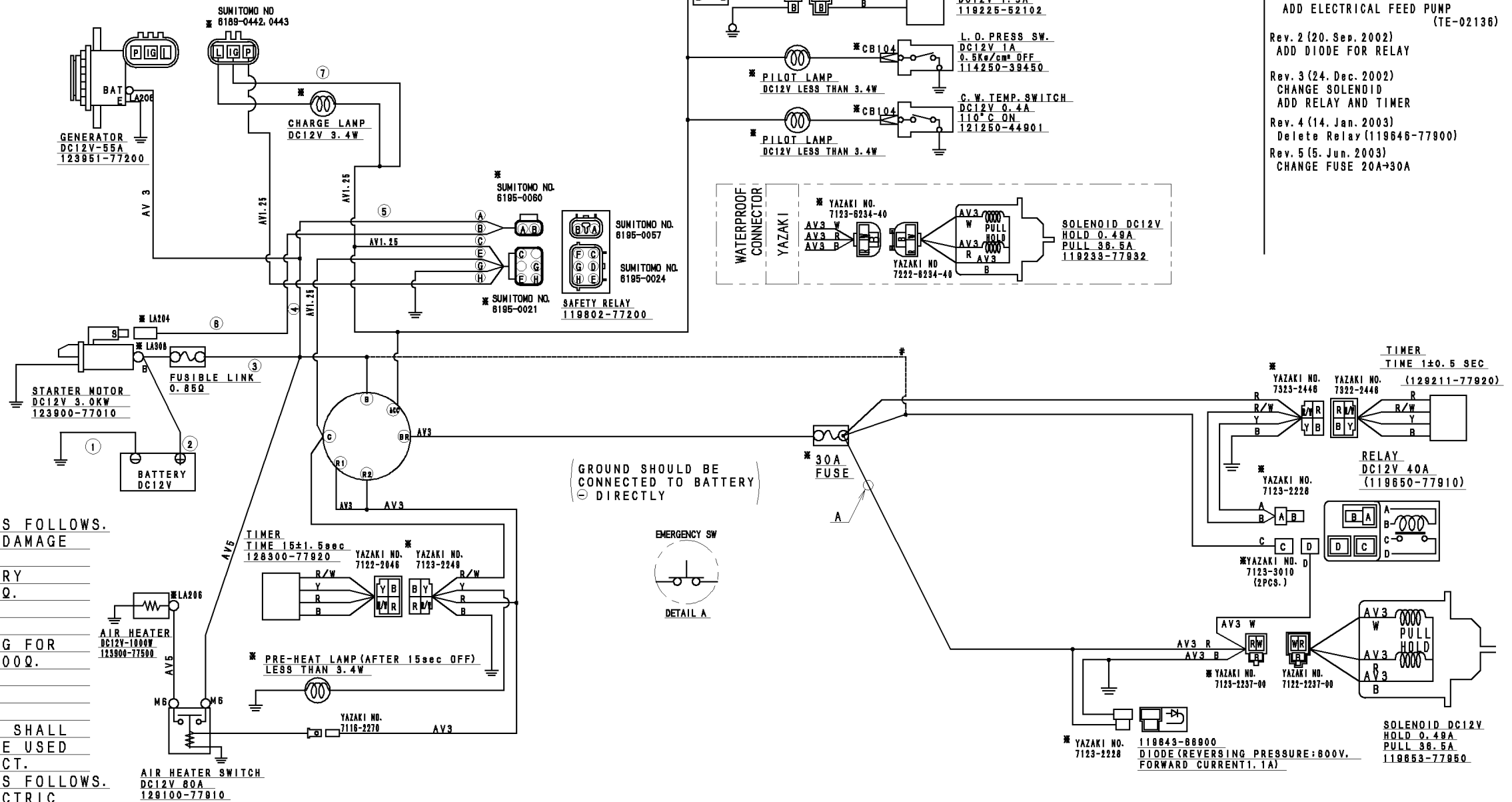
KEY SW. DIAGRAM

NOTES

1. WIRING OF STARTER MUST BE OBSERVED AS FOLLOWS. OTHERWISE IT CAUSES MISS STARTING OR DAMAGE OF STARTERMOTOR.
1-1. TOTAL ELECTRIC RESISTANCE OF BATTERY CABLE (①+②) SHOULD BE LESS THAN 2/1000Ω.
REFERENCE: AV15: ≤1.4m, AV20: ≤2.2m
AV30: ≤3.8m, AV40: ≤4.6m
1-2. TOTAL ELECTRIC RESISTANCE OF WIRING FOR STARTER (③~⑥) SHOULD BE LESS THAN 5/100Ω.
REFERENCE OF TERMINAL RESISTANCE : 15/1000Ω PER COUPLER
0Ω PER SCREW SETTING
1-3. BATTERY EARTH CABLE (①) 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 CABLE TERMINAL, NOR TURN 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 EXPECTIVE ERRONEOUS OPERATIONS, AND CONFIRM THE CIRCUIT NO SURGE OCCURS.
ESPECIALLY PROVIDE THE FLYWHEEL DIODE FOR "C-LOAD" AND DIODE FOR "L-LOAD".

REMARKS

1. ※ MARKED PARTS ARE NOT PROVIDED BY YANMAR.



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 : AV2 (0.0088Ω/m) : ≤8.0m...WITHOUT TERMINAL RESISTANCE
AV3 (0.0056Ω/m) : ≤12.5m...SAME AS ABOVE
WHEN YOU EXCEED PERMISSIBLE RESISTANCE, ADOPT 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 CONNECT 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.

形状寸法コード

G.T.CODE

真円度・円筒度八、半径法

図 面 来 歴
CAREER

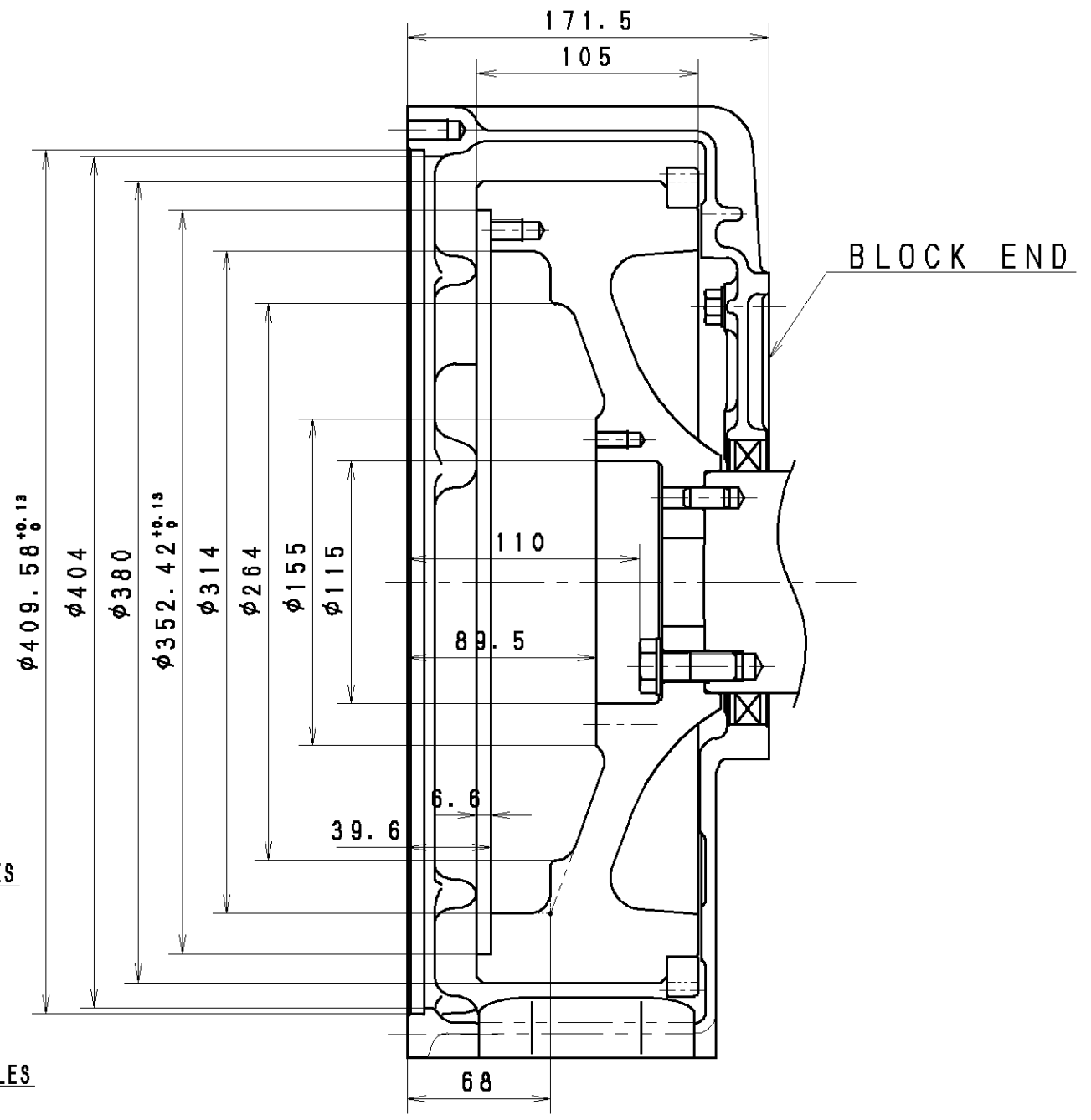
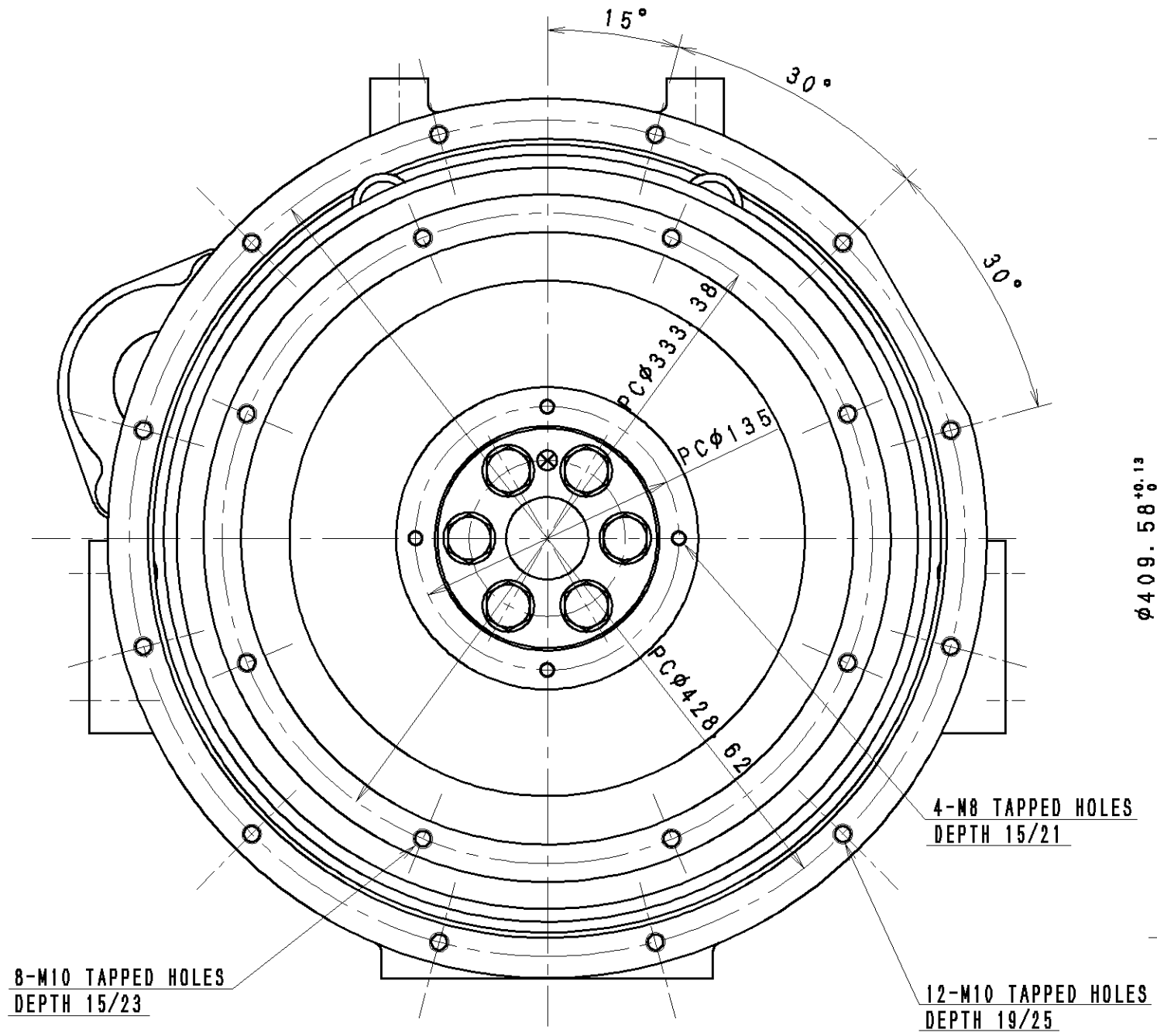
Rev. 1 (30May. 2002)
CHANGE THE NOTES FOR ENGINE STOP SOLENOID
ADD ELECTRICAL FEED PUMP (TE-02136)
Rev. 2 (20. Sep. 2002)
ADD DIODE FOR RELAY
Rev. 3 (24. Dec. 2002)
CHANGE SOLENOID
ADD RELAY AND TIMER
Rev. 4 (14. Jan. 2003)
Delete Relay (119646-77900)
Rev. 5 (5. Jun. 2003)
CHANGE FUSE 20A→30A

素 材 質 量 WEIGHT (RAW)		(± %)	水 圧 試 験 HYDRAULIC TEST		MPa (kg/cm ²)		小 形 工 開 発 部 G. MANAGER	部 長 技 部 長 MANAGER				
完 成 質 量 WEIGHT (精度%)		(± %)	空 圧 試 験 PNEUMATIC TEST		MPa (kg/cm ²)			T. Makiida				
主 席		長 SEC. MANAGER K. Yamada	機 種 MODEL	4TNV 106	4TNV 106T			尺 度 SCALE	SCALE OUT			
				個 数 QTY.						材 質 MATERIAL		
検 査 CHECKED		機 能 担 当 者 SPECIALIST	ケッセンズ									
設 計 DESIGNED		製 図 DRAWN	年 月 日 DATE		名 称							
K. Yokoi		I. Shimizu	2002 1. 29		WIRING DIAGRAM							
					WIRING DIGLAM							
YANMAR CO., LTD.					コード CODE		Rev. 1	Rev. 2	Rev. 3	Rev. 4	Rev. 5	図 面 サイ ズ A2 (C)
ENGINE PRODUCT OPERATIONS DIV.							E3-23907-0010					

形状寸法コード

G.T.CODE M

真円度・円筒度八、半径法



重要ポイント	○
増設ノリ配ト記号	
種類	記号
真直度	—
真円度	○
線形	⌒
平面度	□
円筒度	○
面形	△
平行度	∥
垂直度	⊥
傾斜度	∠
位置度	⊕
同軸度	◎
対称度	≡
円筒度	○
全長公差	±

Flywheel Housing	123910-01600
Flywheel	123915-21400
Ring Gear	127410-21480

素材質量 WEIGHT (RAW) (± %)	
完成質量 WEIGHT (組立後) (± %)	
長 SEC. MANAGER S. Yamashita	承認 CHECKED
設計 DESIGNED A. OTSUKA	機能担当者 SPECIALIST
年月日 DATE 1999 3. 5	

承認
CAREER

水圧試験 HYDRAULIC TEST (MPa kg/cm ²)	空圧試験 PNEUMATIC TEST (MPa kg/cm ²)	エンジニア MANAGER	一技長 MANAGER M. Kamezaki
機種 MODEL 106 -G1A	4TNE 106T -G1A	尺 SCALE 1/3	材 MATERIAL ---
数量 QTY. 1	1	名称 NAME 直結部詳細図 COUPLING DIMENSIONS	
YANMAR DIESEL ENGINE CO., LTD. ENGINE DEVELOPMENT DEPT.		コード CODE Z3-23915-1100	A3 (B)

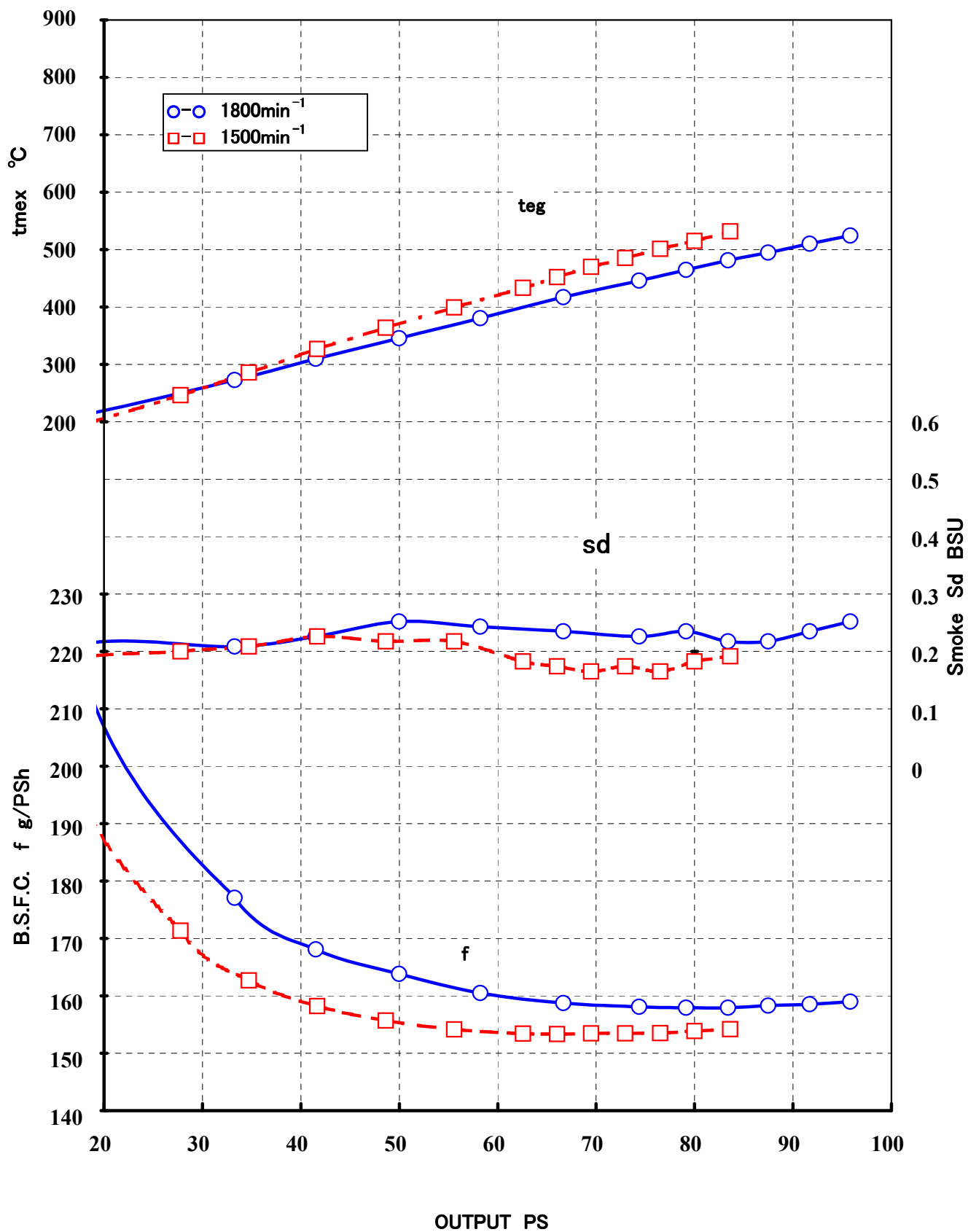
GROUP. USER=? CAD PN. FN=?

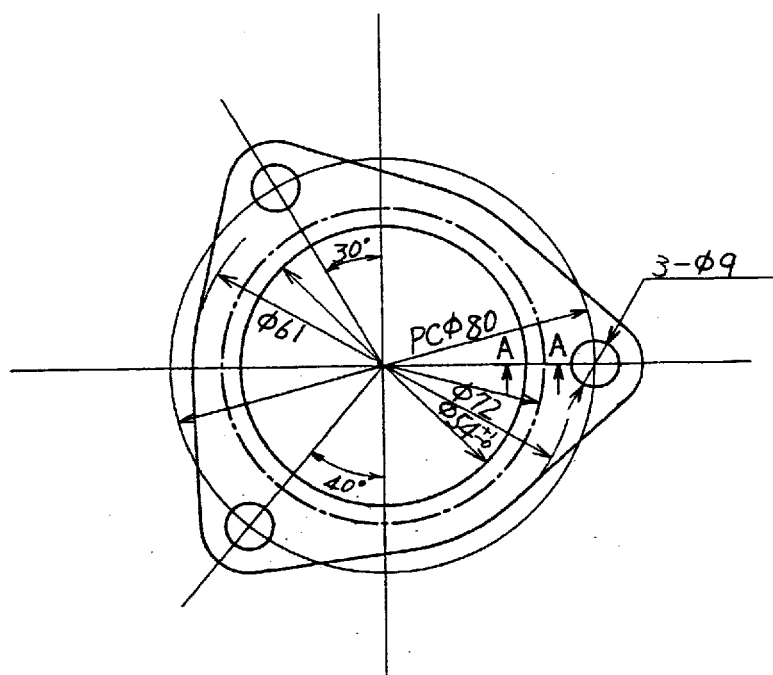
Fig. 4TNV106T Engine performance curve

n-BxS:4-106x125
Displacement : 4.412zl

Silencer	123912-13531
Air cleaner	8inch
CW fan	123915-44741

Crank pulley	D=150
Fan pulley	D=130
φ 550	PushF





t=0.5

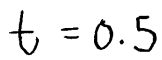
GASKET, TURBOCHARGER

YANMAR

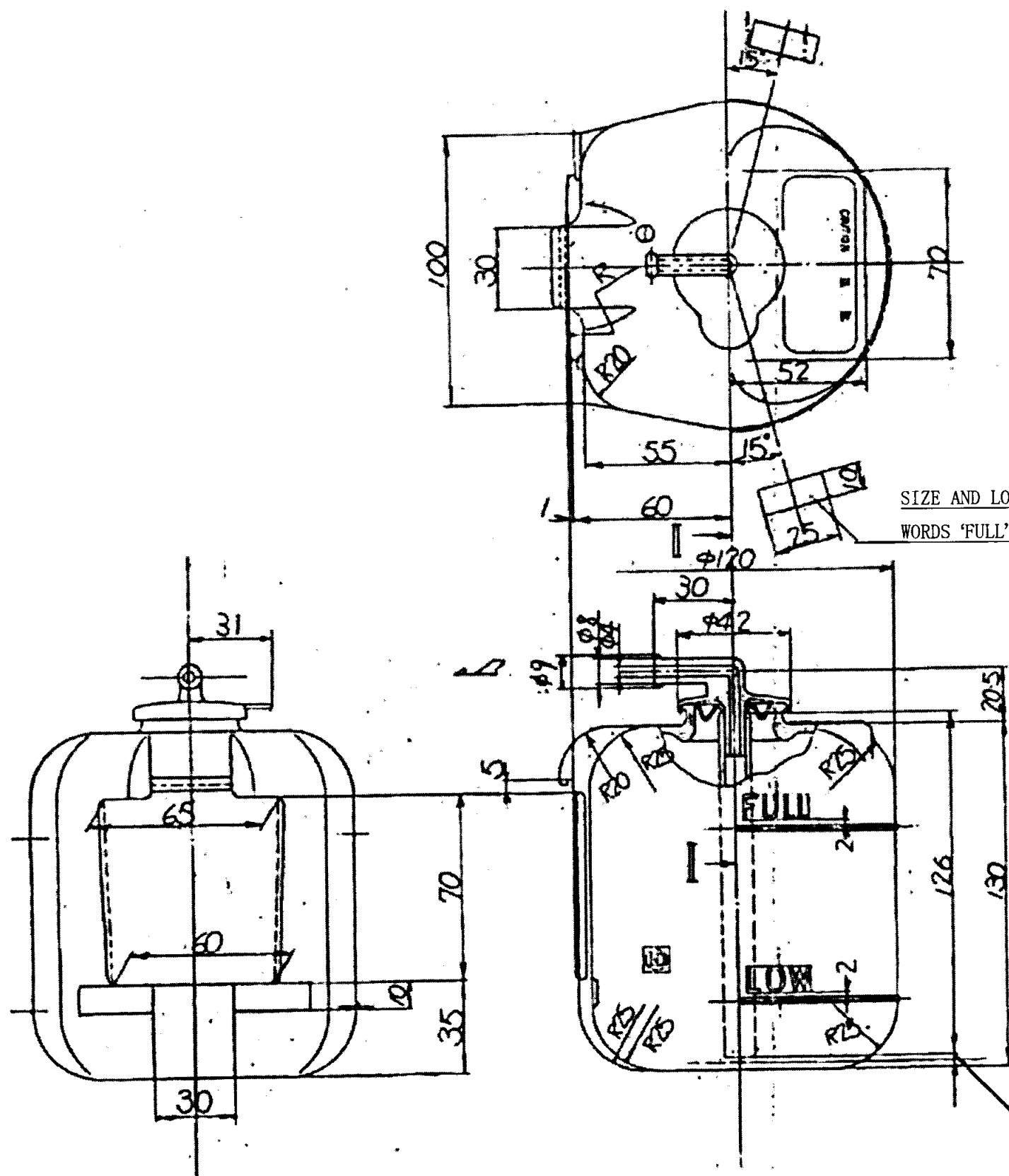
ENGINE PRODUCT OPERATIONS DIV., YANMAR CO., LTD.

CODE

129472-13520



YANMAR DIESEL ENGINE CO., LTD	
部品名称 PART	P/K (T/C OUT)
PART No.	123901-18080

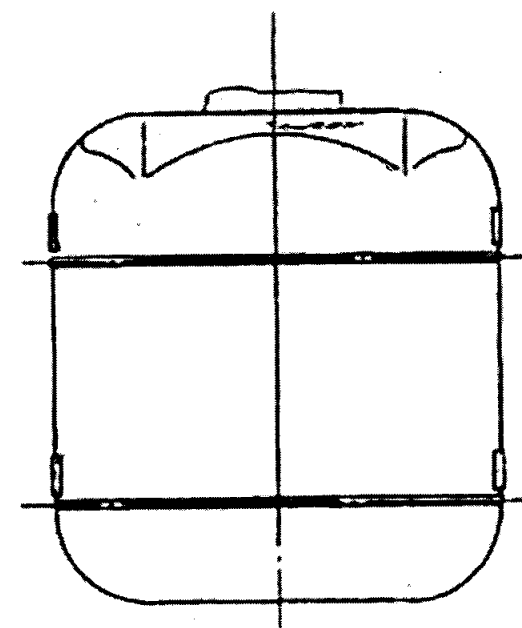


SIZE AND LOCATION OF
WORDS 'FULL' AND 'LOW'

APPLY BOND
ON ASSEMBLING

φ 1 HOLE FOR BREATHING
(KEPT ≥ 90° APART FROM EACH OTHER)

SECTION I - I (1/1)



MORE THAN 2mm BETWEEN TANK AND HOSE

REMARK

1. Volume ≥ 1.25 l LEVEL 'FULL': APPROX. 0.8 l
'LOW': APPROX. 0.2 l
2. TANK MATERIAL: P. P. (HEAT RESISTANCE)
3. VIBRATION PROOF: 3G × 10⁶ CYCLES (VERTICAL)
4. HEAT RESISTANCE: 110°C

ヤンマーディーゼル株式会社

適用名称

適用機種

部品名称

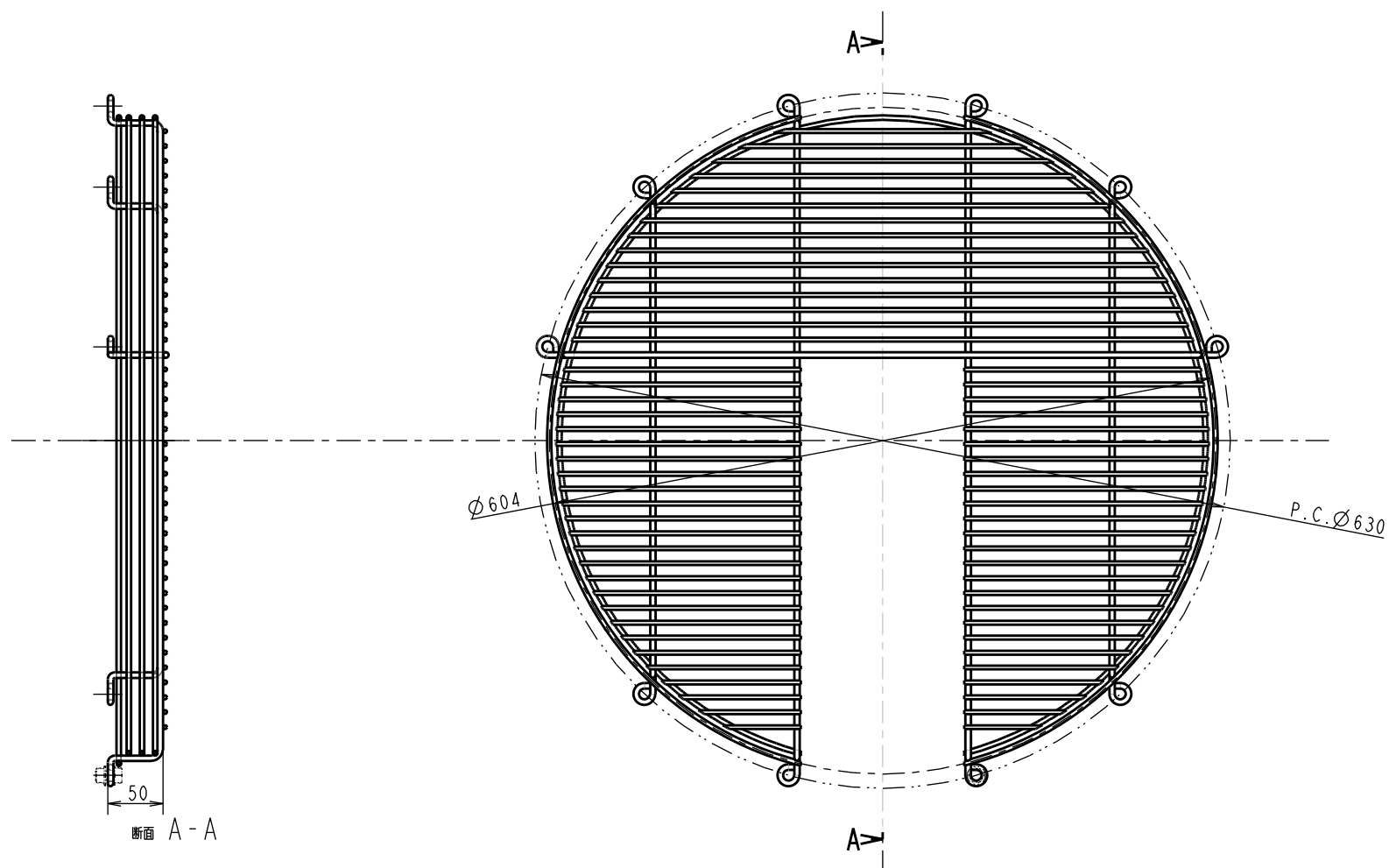
SUB TANK

部品コード

120445 - 44530

YANMAR DIESEL ENGINE CO., LTD.

3D-CAD



GUARD, FAN

ファンガード

YANMAR

ENGINE PRODUCT OPERATIONS DIV., YANMAR CO., LTD.

CODE

123915-44570

ENG. MODEL

??????

1. 材質: CR, 34硬度70° ±5°

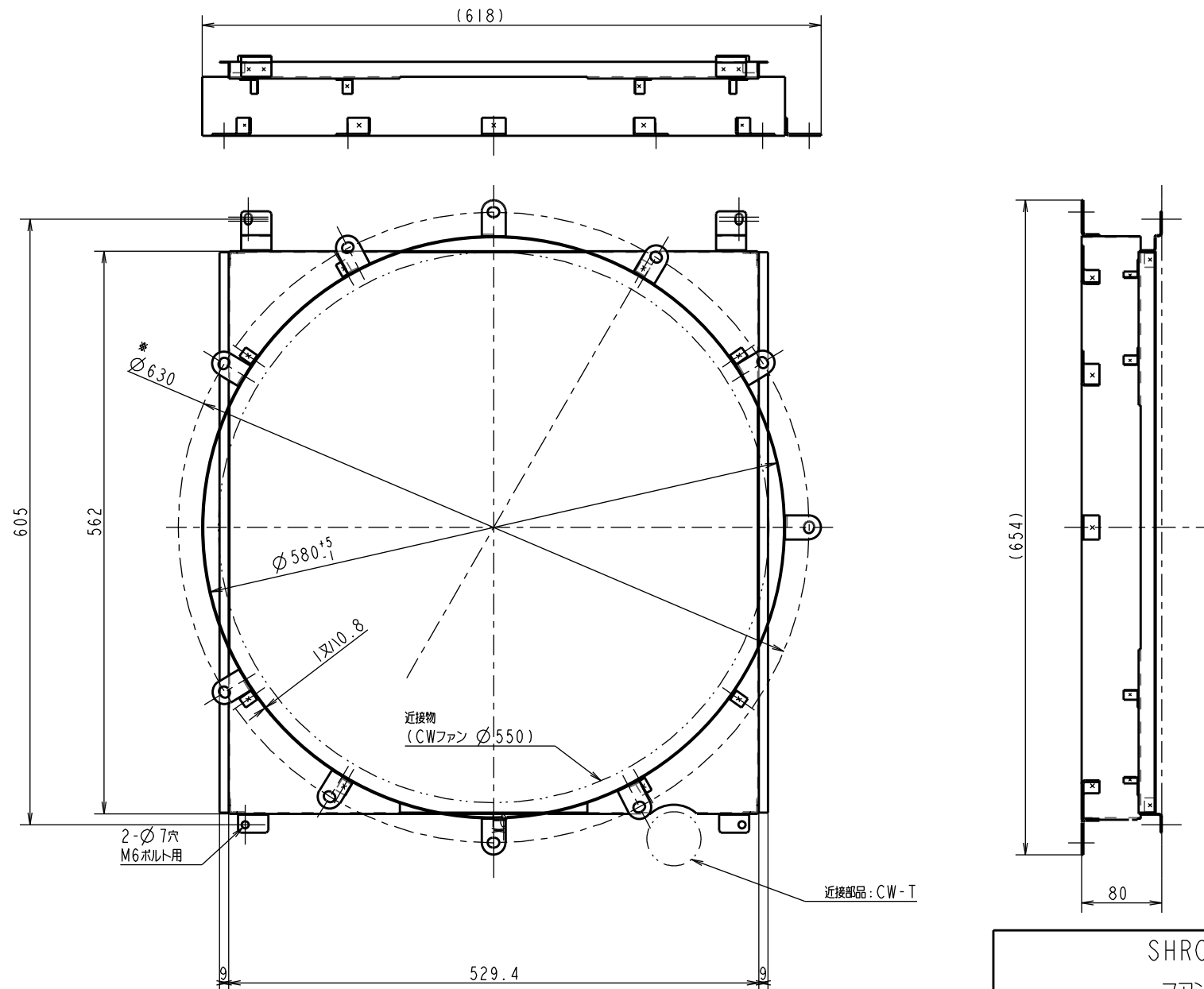
rubber hardness: $70^{\circ} \pm 5^{\circ}$



ヤンマーディーゼル株式会社	
適用名称	
適用機種	
部品名称	円板12(ラジエタ)
部品コード	119255-44660

Silent blacks

3D-CAD

SHROUD, FAN
ファンシユラウト**YANMAR**

ENGINE PRODUCT OPERATIONS DIV., YANMAR CO., LTD.

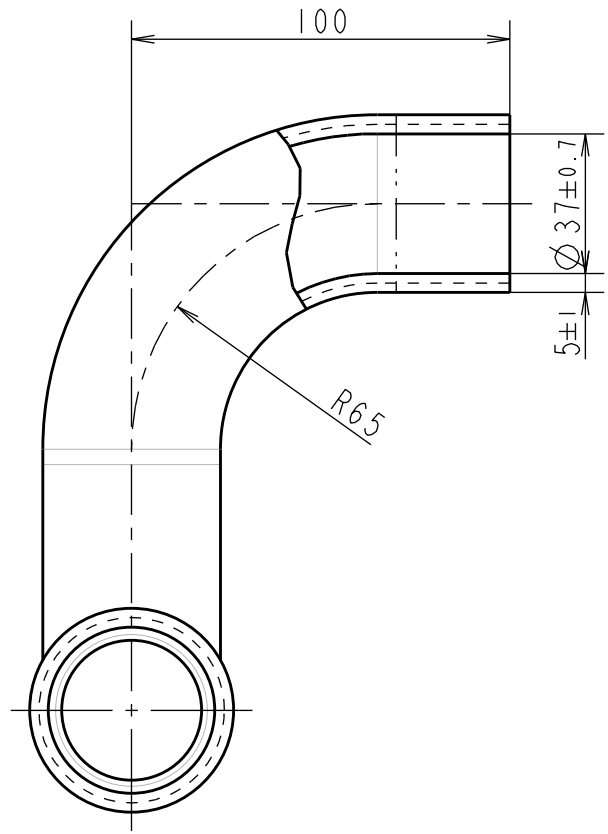
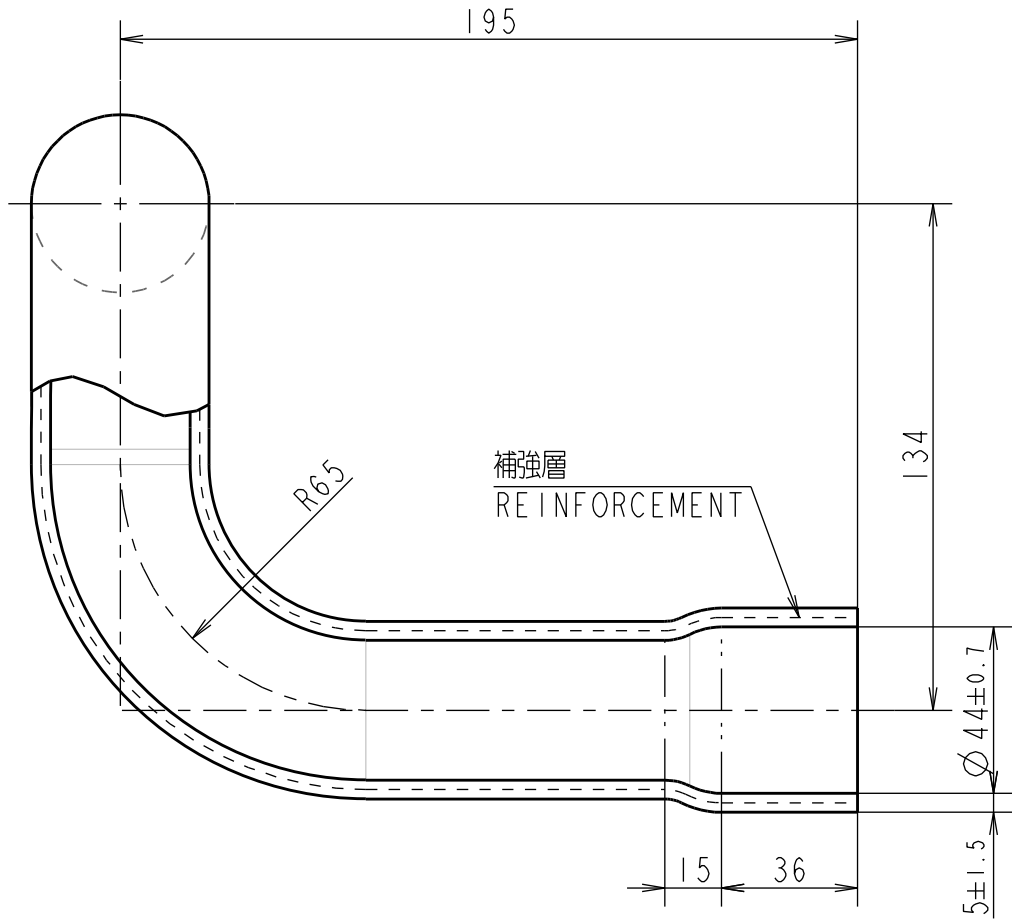
CODE

123915-44760

ENG. MODEL

??????

3D-CAD



PIPE, COOLING WATER
CW-T(A)

YANMAR

ENGINE PRODUCT OPERATIONS DIV., YANMAR CO., LTD.

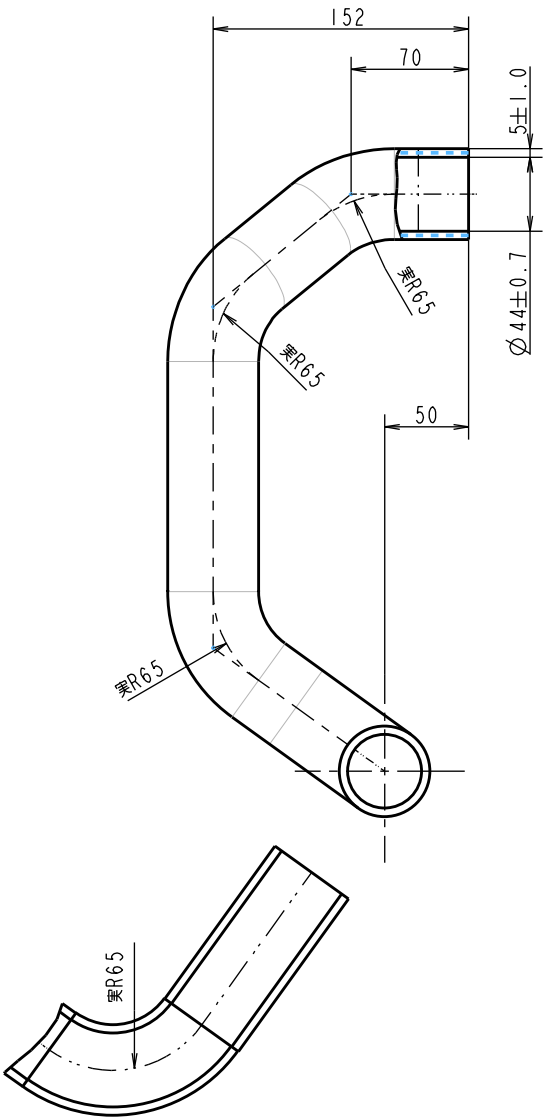
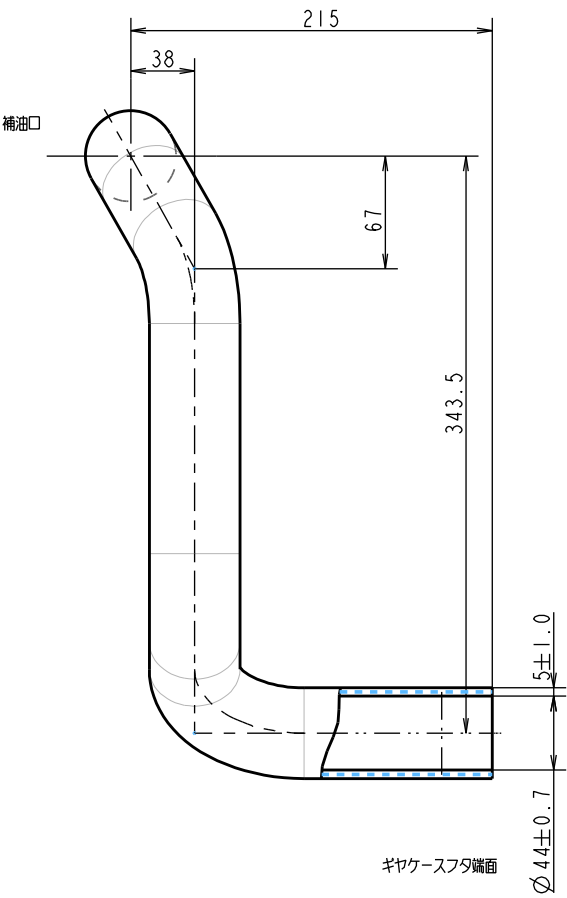
CODE

123901-49050

ENG. MODEL

??????

3D-CAD



CW-T(B)		
CW-T(B)		
YANMAR		CODE
ENGINE PRODUCT OPERATIONS DIV., YANMAR CO., LTD.		123947-49070

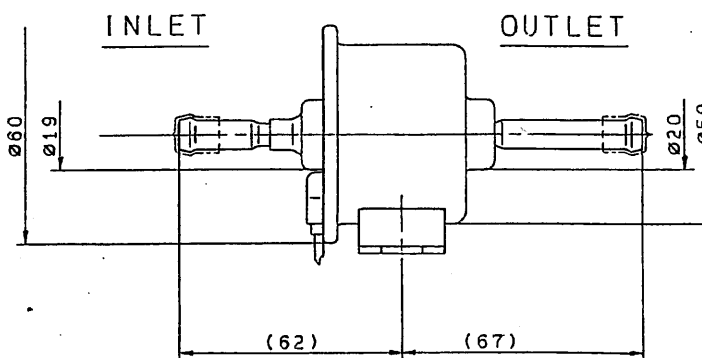
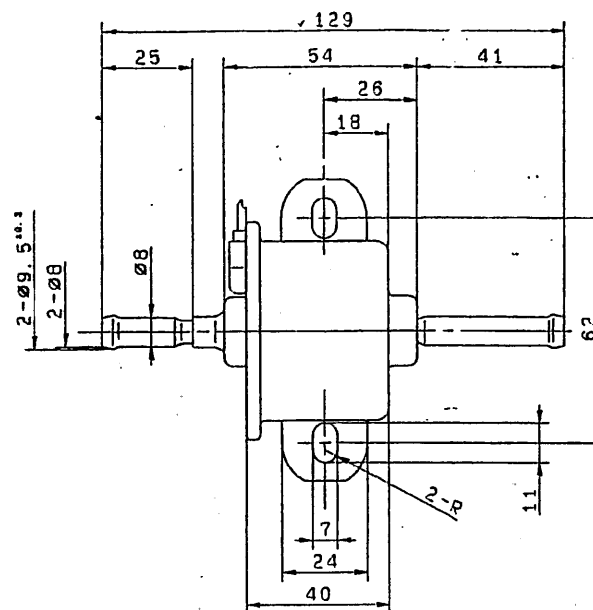
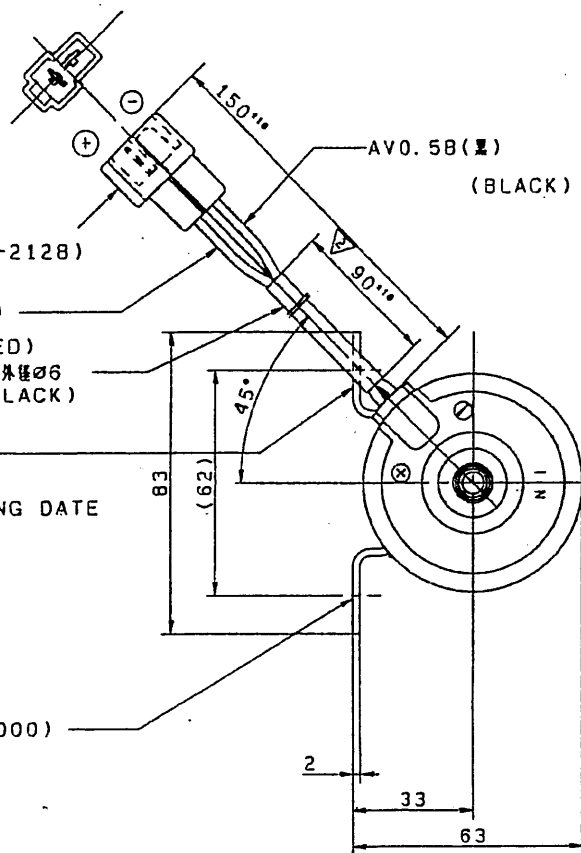
ENG.MODEL	??????
-----------	--------

矢崎 7322-2128
(YAZAKI 7322-2128)

AVO. 5R (赤)
(RED)
ビニールチューブ (黒) 外径φ6
VINYL TUBE (BLACK)

製造年月日刻印
(例 7410)
MANUFACTURING DATE
(EX. 7410)

略品番刻印 (2000)
PART NO.



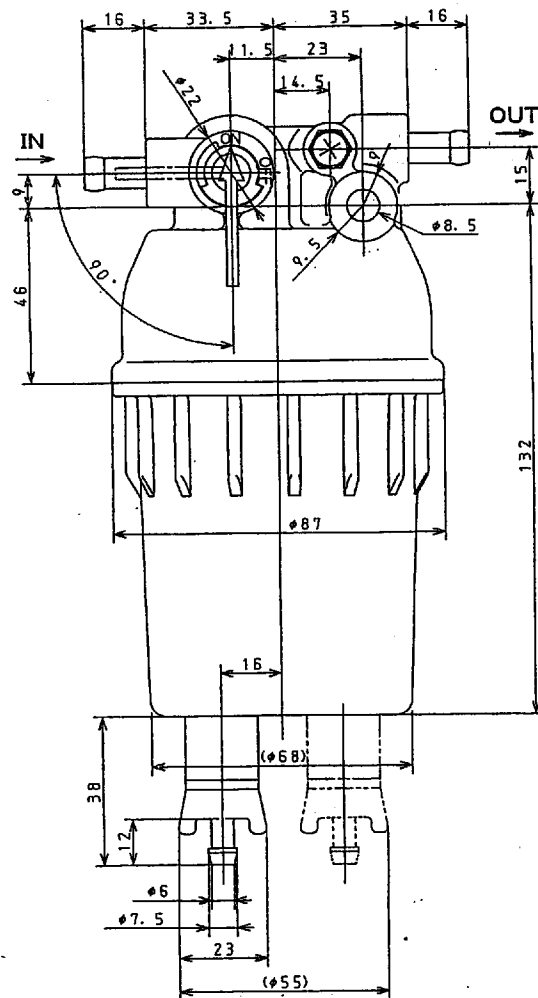
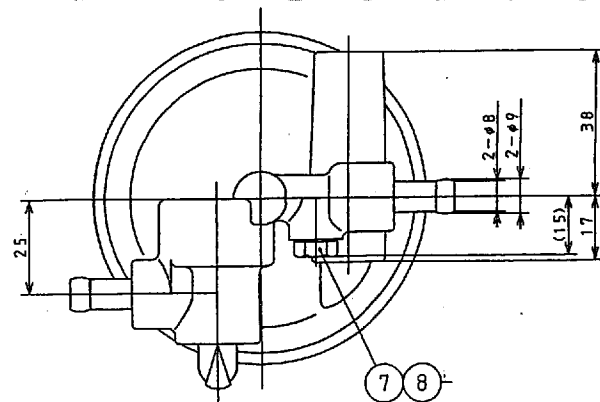
SPECIFICATIONS

(ROOM TEMPERATURE CHARACTERISTIC.
MEASUREMENT METHOD AND EQUIPMENT
ARE BASED ON JIS D3606)

1. RATED VOLTAGE: 12V DC
2. OPERATING VOLTAGE RANGE: 8.5~16.5V
3. OPERATING CURRENT: MAX 1.5A
4. DELIVERY: MIN 400cm³/min AT FREE FLOW (9.8kPa(0.1kgf/cm²) TOTAL PRESSURE)
5. TOTAL PRESSURE (DELIVERY + SUCTION)
: MAX 37.3kPa(0.38kgf/cm²) AT ZERO DELIVERY
6. SUCTION PRESSURE AT DRY CONDITION
: MAX -4.0kPa(-30mmHg)
7. AIR TIGHTNESS: SHOULD HAVE NO LEAKAGE UNDER A PRESSURE OF 98kPa(1kgf/cm²) APPLIED TO INLET AND OUTLET FOR 15 SECONDS
8. OPERATING TEMP. RANGE: -30~70°C
9. TEST FUEL: JIS K2203 OR K2201
10. FIXING DIRECTION FOR TEST: INLET & OUTLET PIPES HORIZONTALLY
11. MASS: 305g
12. SURFACE TREATMENT: ZINCIFICATION

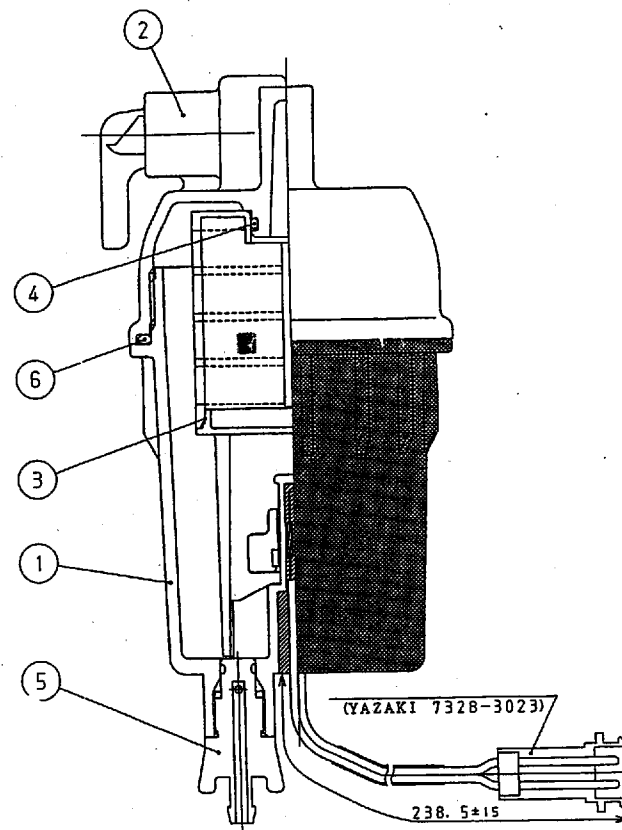
YANMAR DIESEL

PARTS NAME	FUEL FEED PUMP
PARTS CODE	119225-52102

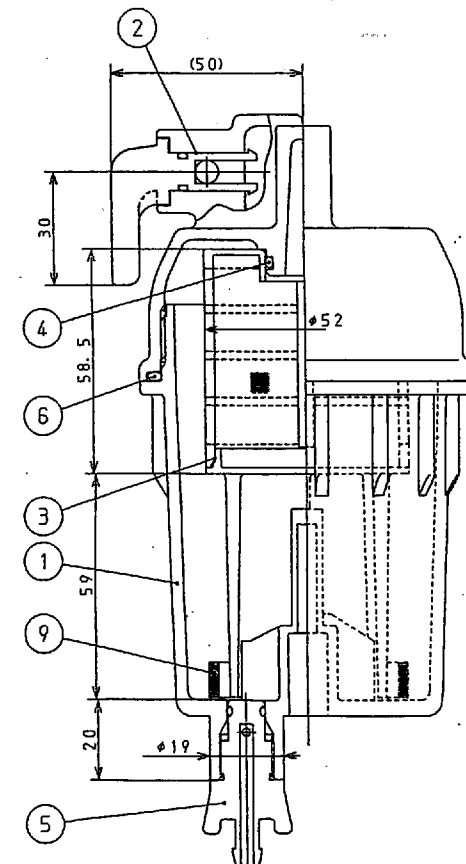


PART CODE	CUP COLOR	ALARM SENSOR
129242-55700	TRANSPARENT	NOT PROVIDE
129245-55700	BLACK	PROVIDE

129245-55700 (BLACK CUP)

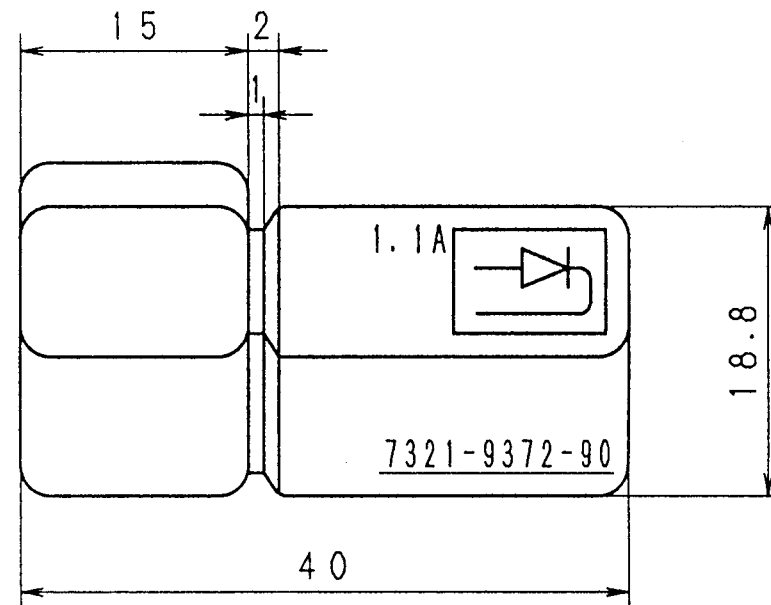
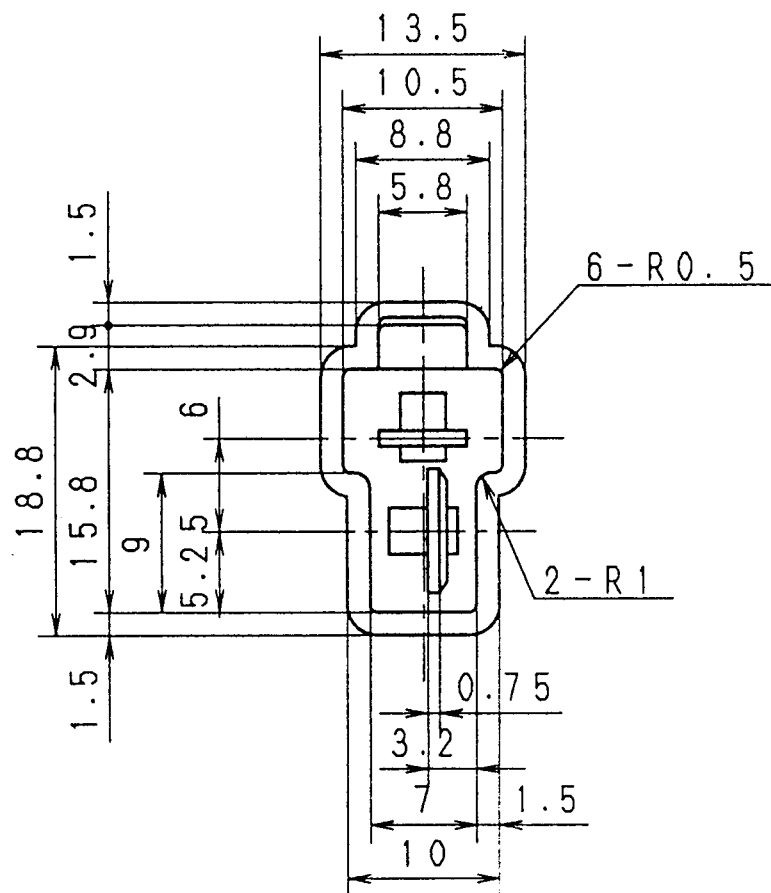


129242-55700 (TRANSPARENT CUP)



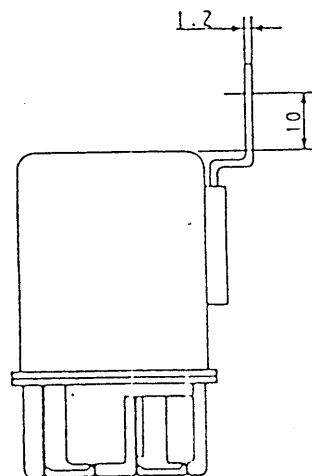
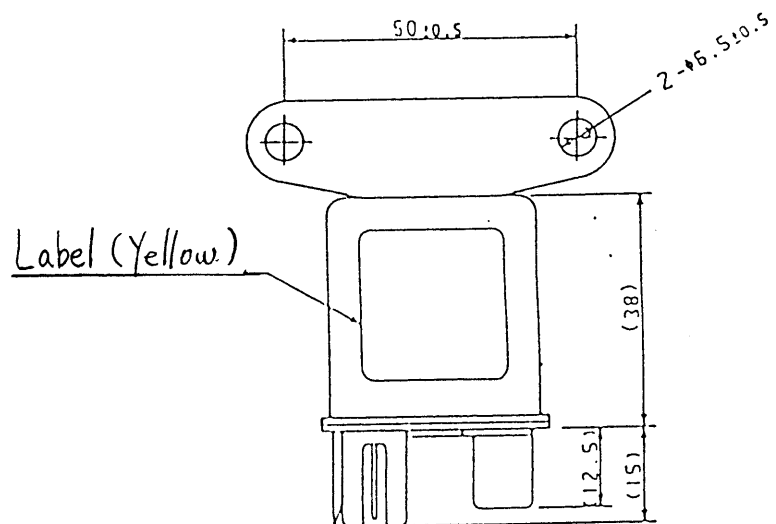
YANMAR CO., LTD

PARTS NAME	WATER SEPARATOR
PARTS CODE	129242-55700 129245-55700

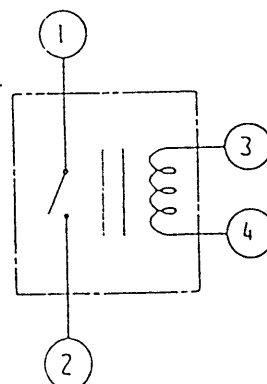
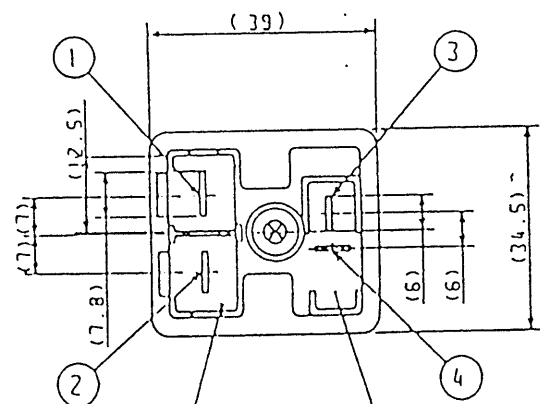


Mate coupler : 7123-2228
 Mate terminal : 7116-2090

DIODE		
YANMAR DIESEL ENGINE CO., LTD.	DWG. NO.	_____
		119643-66900



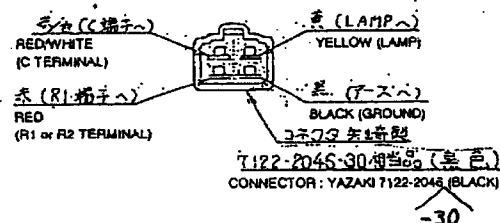
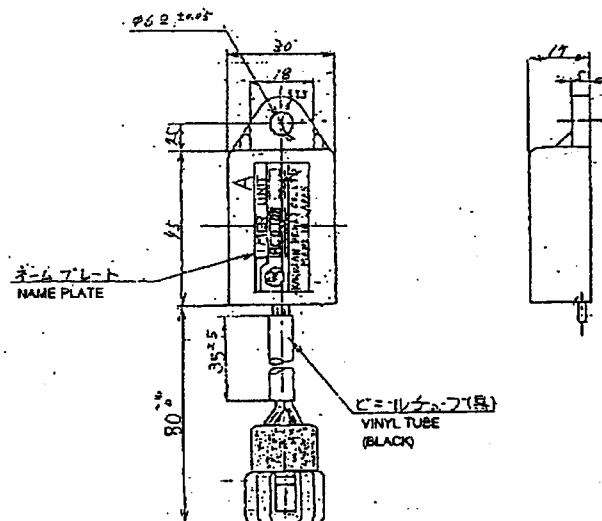
Rated Voltage	DC 12 V
Continuous Rating	10 MIN
Coil Resistance	37 Ω
Inductance	66 mH (AT 1 kHz)



Mate Connector
2pcs. 7323-3010
(YAZAKI Company)

Mate Connector
7323-2228 (YAZAKI Company)

NAME	Relay
CODE	119650-77910

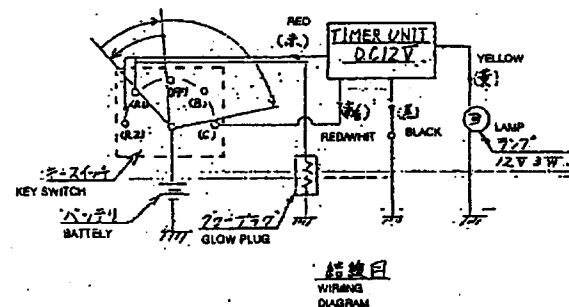
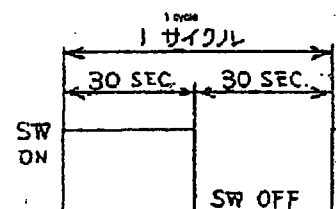


仕様

1. リレーON時間 : 15±3 (sec.)
2. 使用温度範囲 : -25℃~+80℃
3. 保存温度範囲 : -25℃~+80℃
4. 使用電源電圧範囲 : 8V~15V
5. 適用リレー仕様 : 12V 励磁電流 : 1A
6. 耐水性 : 清水中10cmノ所ニ24時間保持シタ後、水分ヲ拭キ取り自然乾燥後、性能ニ異常ナキコト。但シ、カブラ及ピコネクタ部分ハ浸水ガ無いヨウニ行ウコト。
7. 耐振性 : 20G一定ニテ100~1000Hz60secスィープニテX, Y, Z方向各2Hr振動ヲ与エ性能ニ異常ナキコト。但シ、ワイヤーハーネスハ共振ナキヨウ取り付ケルコト。
8. 耐久性 : 30000サイクル動作サセタ後性能ニ異常ナキコト。

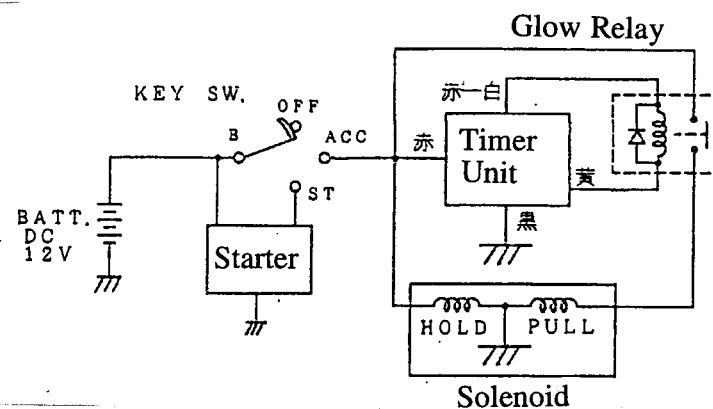
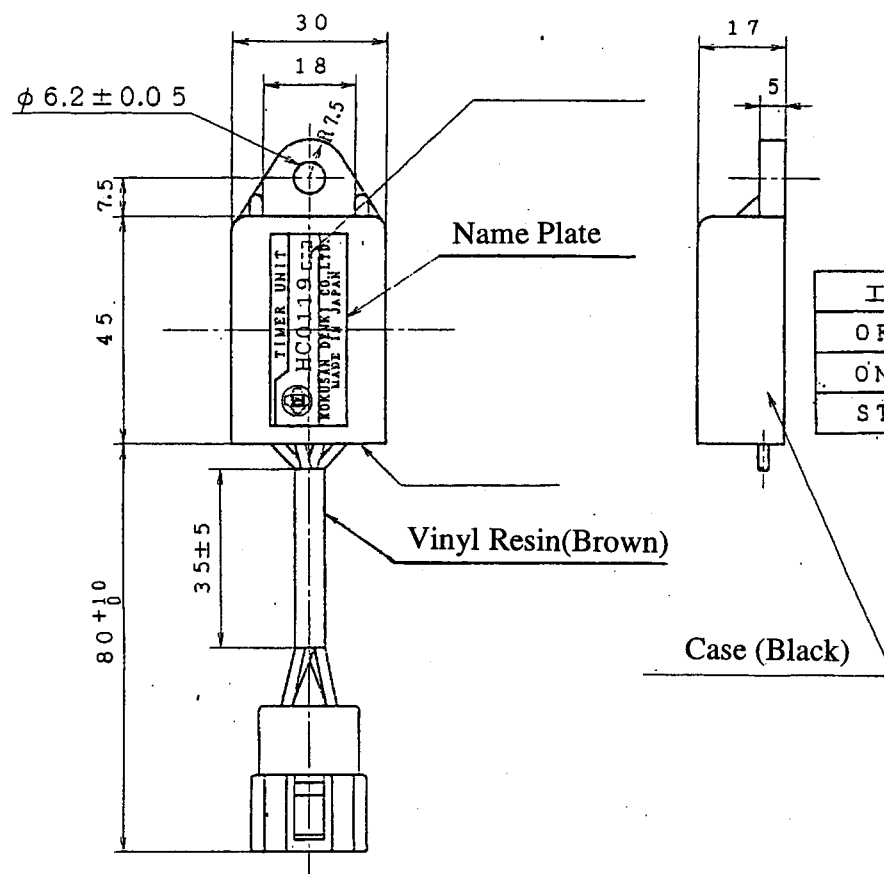
SPECIFICATIONS

1. OPERATION TIME : ON AFTER 15 sec.
2. USABLE TEMPERATURE RANGE : -25℃~+80℃
3. PRESERVE TEMPERATURE RANGE : -25℃~+80℃
4. USABLE VOLTAGE RANGE: 8V~15V
5. APPLICABLE RELAY : 12V
6. WATERPROOFING : DO NOT EXPOSED TO THE RAIN ON CONNECTOR AND TERMINAL.
7. VIBRATION RESISTANCE : 20G
8. DURABILITY : 30000 cycle

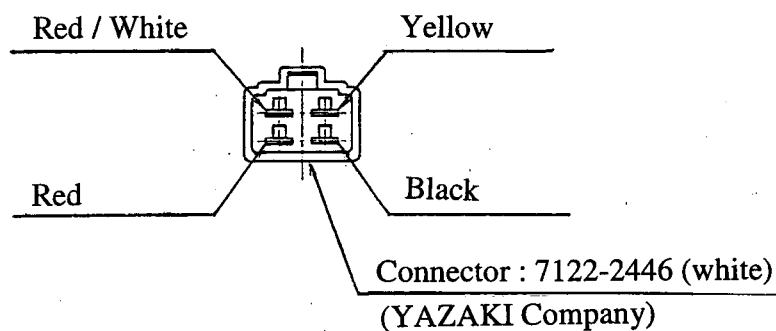
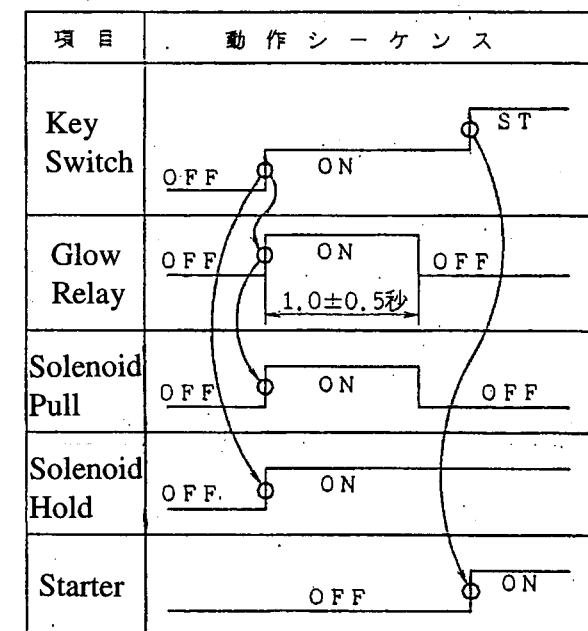


MODEL	TNE SERIESE
部品名称	ランプタイマ
NAME	TIMER, GLOW PLUG
PART No.	128300-77920

3D-CAD



工程	B	ACC	ST
OFF			
ON	○	○	
ST	○	○	○



TIMER (1 sec)

タイマー (1 sec)

YANMAR

ENGINE PRODUCT OPERATIONS DIV., YANMAR CO., LTD.

CODE

129211-77920