SPECIFICATION
OF
MITSUBISHI DIESEL ENGINE
MODEL : S6R2-PTA
(WITH FAN)
FOR DIESEL GENERATOR SET
EMERGENCY APPLICATION

Used for 675kVA generator

MITSUBISHI HEAVY INDUSTRIES,LTD

								APPROVED BY	CHECKED BY	DRAWN BY
				DATE		2016/4/1				

1. DRAWINGS

NO.	DWG. NO.	DWG. NAME	REV.
1	38C96-00251	ENGINE OUTLINE	
2	38C96-01051	JOINT DETAIL	
3	38C96-04051	WIRING DIAGRAM	
4	37596-14001	MOUNTING DETAIL	
5	37596-21001	FLYWHEEL & HOUSING DETAIL	
6	37596-25180	BELT COVER	
7	38C96-30151	AIR INLET PIPING	
8	38C96-30351	AIR CLEANER	
9	37596-43081	BREATHER	
10	37596-61312	FUEL RETURN PIPING	
11	37596-62112	FUEL INLET PIPING	
12	38C96-63051	GOVERNOR	
13	38C96-66051	STARTING MOTOR	
14	37596-87502	STOP SYSTEM	
15	38C96-90152	METER & SENSOR	
16	37596-90142	METER & SENSOR	
17	37596-90240	ALARM SWITCH	
18	S10-0540	ALTERNATOR	
19	S10-0550	CONNECTOR	
20	S11-0551	THERMO SWITCH	
21	S11-0796	PRESSURE SWITCH	
22	S11-0920	INDICATOR	
23	S11-1371	FILTER ALARM SWITCH	
24	S13-0282	SOLENOID	
25	S13-1761	ACTUATOR	
26	S13-1022	CONNECTOR	
27	S13-1042	CONTROLLER	
28	S13-2011	MAGNETIC PICK UP	
29	S13-2020	PICK UP CABLE	
30	S14-0330	CONNECTOR	
31	S35-5030	AIR CLEANER	
32	S35-5110	BAND	

NO.	DWG. NO.	DWG. NAME	REV.
33	S35-5220	CAP	
34	S35-0701	ELBOW	
35	S37-1080	FLEXIBLE PIPE	

2.TECHNICAL INFORMATION

NO.	ITEM. NO.	DWG. NAME	REV.
36	T0231-0001E	SPECIFICATION SHEETS	

3. GENERAL

Object and use	:	Diesel generator
Color of painting	:	7.5BG6/1.5
Applicable conditions		
Ambient temperature	:	5°C ~ 40°C
Altitude	:	1500m above sea level
Max ,humidity	:	85%
Place of installation	:	In door

Shop test

Diesel engine running tests shall be carried out by the following items.

Starting test		
Load test	:	1/4, 2/4, 3/4 Load each
	:	4/4 Load
Governor test	:	Governor test should be done along with respective governor controller
Safety stop device test		

Standard

All items, unless otherwise specified, are in accordance with JIS, and manufacturer's standards.

4. PRINCIPAL PARTICULARS

Model	:	S6R2-PTA
Type	:	4cycle stroke, water cooled diesel engine
Combustion chamber	:	Direct injection type
Aspiration	:	Tarbocharged with after cooler
Number of cylinders	:	6-L
Bore × stroke	:	170mm × 220mm
Total displacement	:	29.96 L
Compression ratio	:	14.1 : 1
firing order	:	1 - 5 - 3 - 6 - 2 - 4
Direction of rotation	:	Counter clockwise as viewed from flywheel side
Engine dimensions (Approx.)	:	Length Apx.1945.5 mm
	:	Width Apx.1050.5 mm
	:	Height Apx. 1578 mm
Dry weight (Approx.)	:	2400kg (without accessories)
Fuel oil	:	ASTM D975 No. 2 - D or BS 2869 class A1 ,A2
Lubricating oil	:	API service CF class or SAE15W-40

Output at ISO 3046 standard air conditions (25℃, 100kPa, 30% relative humidity)

Stand-by rating	:	635kW/1500min^{-1}
Prime rating	:	575kW/1500min^{-1}
Fuel consumption ratio at prime rating (allowance +5%)	:	205g/kW-hr at 575kW/1500min^{-1}
Lub, oil consumption ratio at stand-by rating	:	Within 0.6g/kW-hr
Emission compliance	:	Not certified

5. STANDARD EQUIPMENTS

(1) Power line system

Flywheel	:	DWG.NO.37596-21001 SAE J620d 16in, except screw size
Flywheel housing	:	DWG.NO.37596-21001 SAE J617c No.0, except screw size
Engine mounting	:	DWG.NO.37796-14001 4 points mounting, C = 160mm
Torsional vibration damper	:	Viscous type × 1pc

(2) Air intake system

Air cleaner	:	DWG.NO.38C96-30351 , S35-5030 2 pcs Paper element type without indicator
Turbocharger	:	MITSUBISHI TD Type Model : TD15
Air cooler	:	Jacket water cooled type Plated element type
Air heater	:	Not supply

(3) Exhaust system

Exhaust manifold	:	Air cooled type with heat insulator
Muffler	:	Not supply
Flexible pipe	:	DWG.NO.S37-1080 loose supply JIS 200A, L = 230mm, weight 38kg
Companion flange	:	Not supply
Breather	:	DWG.NO.37596-43081 Down side direction type For blow - off to outside of engine room

(4) Lubricating system

Oil pump	:	Gear pump type
Capacity of oil pump	:	270L/min (at Engine Speed 1500min^{-1})
Lub. oil pressure	:	0.49~0.64 Mpa
Quantity of oil (Approx.)	:	Oil pan full level : 84 L low level : 52 L Others (filter etc.) : 10 L Total : 94 L

Lub. oil filter (Full flow)	:	Paper element cartrige type × 2pcs filter mesh : 20 μ with by - pass alarm switch
Lub. oil filter (By - pass flow)	:	Paper element cartrige type × 1pc filter mesh : 2 μ
Lub. oil cooler	:	Water cooled corrugated fin type with by - pass valve

(5) Cooling system

Water pump	:	Belt drive centrifugal type
Capacity of water pump	:	820 L/min (at Engine Speed 1500min^{-1})
Thermostat	:	Wax pellet type × 2pcs Open at 71°C ~ 85°C
Fan	:	Pusher type steel fan 1010 diameter Fan speed ratio i = 0.806
Quantity of Coolant	:	Approx.55L (only Engine)
Radiator	:	Not supply
Radiator piping	:	Not supply

(6) Fuel system

Fuel inlet pipings	:	DWG.NO.37596-62112 For rubber hose joint (hose dia. ϕ 16mm)
Fuel return pipings	:	DWG.NO.37596-61312 For rubber hose Joint (hose dia. ϕ 16mm)

Fuel overflow of Inj. Pump and fuel leak - off of Nozzle have to return to fuel tank

Injection pump	:	Bosch type "PS6" without timer
Feed pump	:	Piston type with priming pump
Injection Nozzle	:	Hole type 0.325mm× 10 holes
Fuel filter	:	Paper element cartrige type × 2pcs Filter mesh : 5 μ

(7) Control system

Governor	:	DWG.NO.38C96-63051 TOHO Electronic speed governor Speed droop : 0 ~ 5% adjustable

Actuator	:	DWG.NO.S13-1761 Supply voltage : DC24V± 20% Current consumption At starting : 13A Normal operation : 0.5 ~ 2A Min. Supply voltage : DC16V50%ED
Controller	:	DWG.NO.S13-1042 loose supply Model : XS-400B-03 (04410-33100) Supply voltage : DC24V± 20%
Potentiometer	:	Not supply
Connector	:	DWG.NO.S13-1022 loose supply From actuator to controller 5000mm length
Magnetic pick up	:	DWG.NO.S13-2011 With connector
Cable	:	DWG.NO.S13-2020 loose supply From magnetic pick up to controller 4300mm length

(8) Starting system

Starter switch	:	Not supply
Starting motor	:	DWG.NO.38C96-66051 DC24V, 7.5KW Reduction type with relay to turn on electricity to solenoid coil The provided starting motor does not include the following function. Function to prevent energising of starting motor while engine is running
Auto magnetic engage relay	:	Not supply
Current of starter	:	Rush 700A Cranking 370A (Ambient temp : 5°C, Lub. oil : SAE No. 30)

Alternator	:	DWG.NO.S10-0540 DC24V, 30A, with voltage regulator
Connector for alternator		With 2 poles connector (DWG. NO.S10-0550)
Recommended battery capacity	:	DC24V, 400AH
		Not supply
Battery switch	:	Not supply
(9) Stopping system	:	DWG.NO.37596-87502
Automatic stop		Automatically shut - down by stop solenoid and electronic governor power off simultaneously
Stop solenoid	:	DWG.NO.S13-0282 Energized to run type DC24V, 30.7A(pull), 0.58A(hold)
Manual stop	:	By stop lever
(10) Safety device		
Alarm swtitches	:	DWG.NO.37596-90240
Alarm and trip		
Low oil press. switch	:	DWG.NO.S11-0796 (04442-45400) Diaphragm type : 0.15 MPa switch on
High water temp. switch	:	DWG.NO.S11-0551 (04442-34500) Wax type : 98°C switch on
Alarm		
Oil filter alarm switch	:	DWG.NO.S11-1371 Piston type : 0.15 MPa switch on
Oil filter alarm lamp	:	Not supply
Air filter alarm indicator	:	DWG.S11-0920 Mechanical type : 6.2kPa switch on
(11) Instrument		
Meter and sensor	:	DWG.NO.38C96-90152,37596-90142
Tachometer	:	Not supply
Magnetic pick up	:	DWG.NO.S13-2011 For tachometer, pin-joint type
Cable	:	For magnetic pick up, Not supply

Thermometer	:	For jacket water and lub. oil temp. Not supply
Pressure gage	:	For lub. oil press. Not supply
Connector	:	2 poles for pressure gage loose supply DWG.NO.S14-0330
Thermometer	:	For exhaust gas temp. Not supply

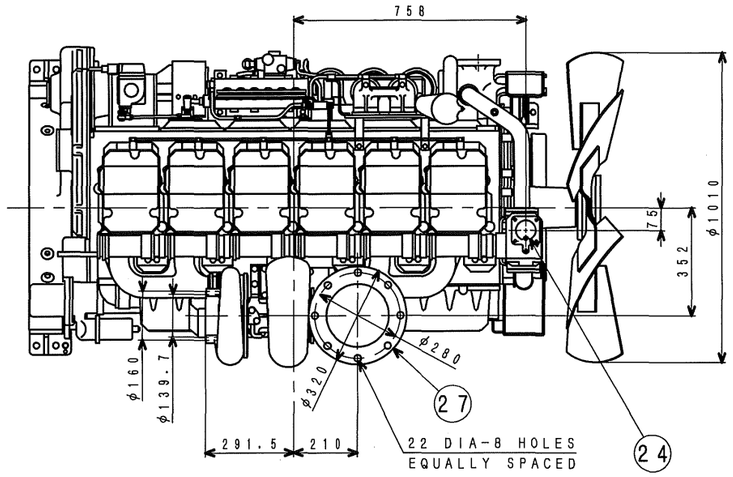
(12) Others

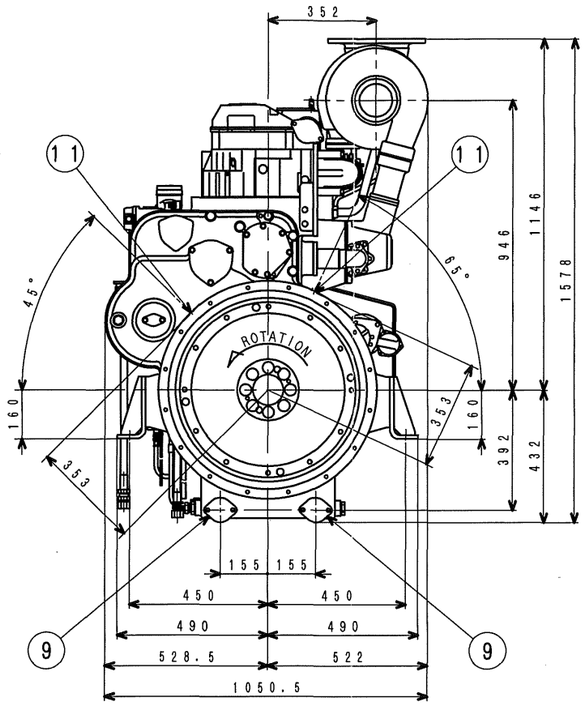
Tools	:	Not supply
Spare parts	:	Not supply

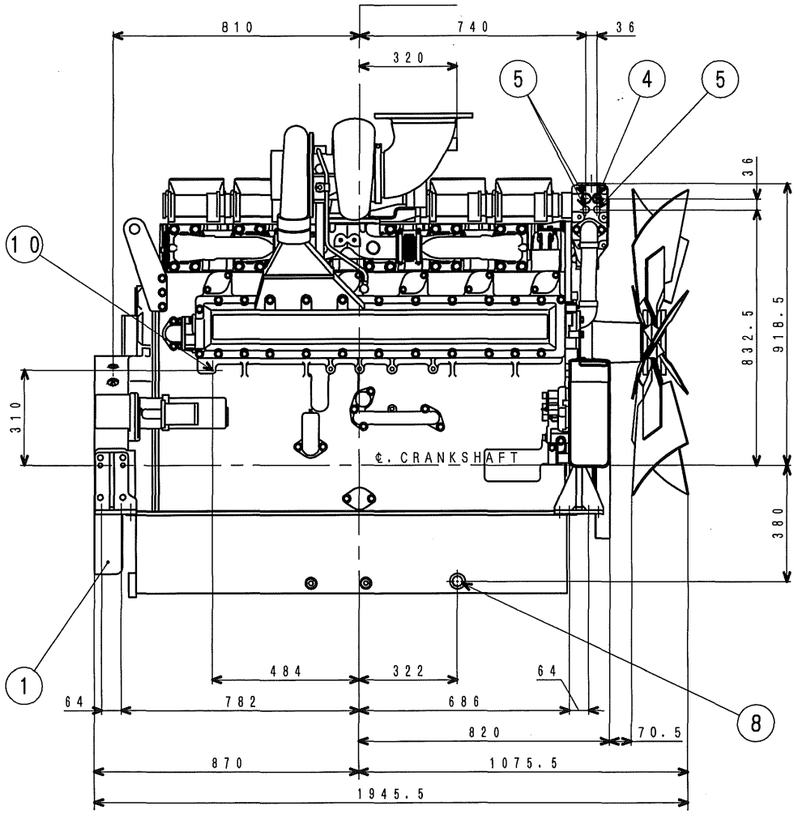
6. ACCESSORIES (Loose supply parts)

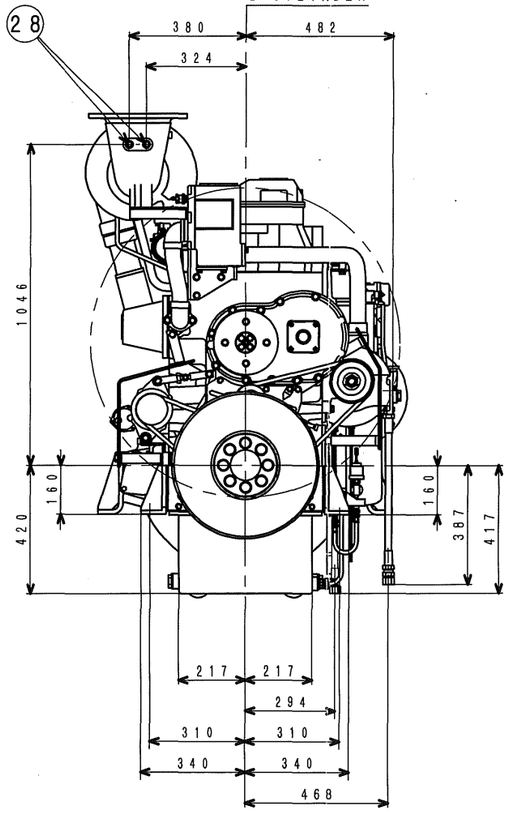
NO.	PARTS NO.	PATRS NAME	Q'TY	DWG.NO.	
1	38G30-09201	AIR CLEANER ASSY	2	S35-5030	38C96-30351
2	38G30-05201	CAP	2	S35-5220	
3	47220-12100	ELBOW, HOSE	2	S35-0701	
4	38G30-09301	BAND	4	S35-5110	
5	05317-51601	CLAMP	4		
6	47220-34401	INDICATOR	2	S11-0920	
7	47920-00700	FLEXIBLE JOINT	1	S37-1080	
8	45951-10030	PIPE,FLEXIBLE	1	37596-61312	
9	45950-11400	CONNECTOR	1		
10	45950-51500	PIPE,FLEXIBLE	1	37596-62112	
11	45950-11100	CONNECTOR	1		
12	04410-33100	CONTROLLER	1	S13-1042	38C96-63051
13	04410-32902	CONNECTOR	1	S13-1022	
14	04410-43500	CABLE, PICK UP	1	S13-2020	
15	32B90-00300	CONNECTOR	1	S10-0550	for alternator
16	MH052231	CONNECTOR	1	S14-0330	38C96-90152

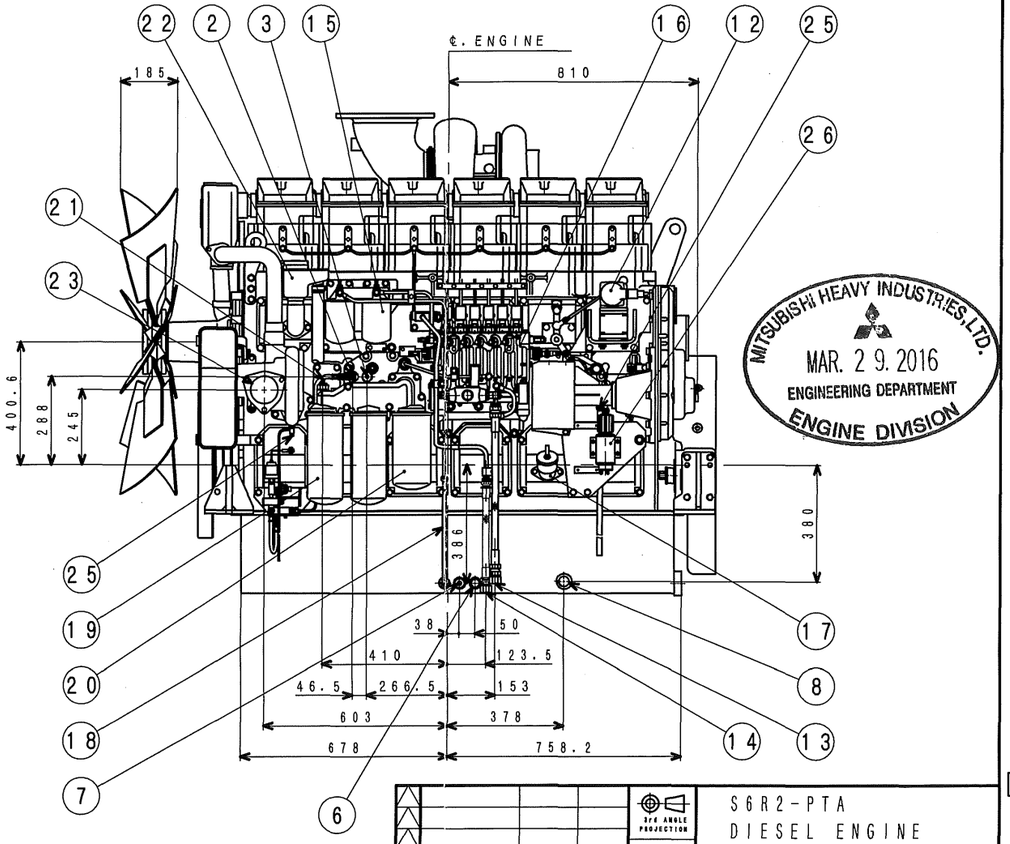
NO.	PARTS NANE	SIZE	REFERENCE
1	FLYWHEEL & HOUSING		37596-21001
2	OIL PRESS. GAGE UNIT JOINT	Rc1/8	38C96-01051
3	OIL PRESS. SWITCH JOINT	Rc1/8	
4	THERMOMETER UNIT JOINT	Rc1/2	
5	THERMOSWITCH JOINT	Rc1/2	
6	OIL PAN (A) JOINT	M20x1.5	
7	OIL PAN (B) JOINT	M16x1.5	
8	OIL PAN (C) JOINT	M36x1.5	
9	OIL PAN (D) JOINT		
10	AIR PRESS. GAGE JOINT	Rc1/4	
11	PICKUP JOINT	UNF5/8-18	38C96-01051
12	GOVERNOR		
13	FUEL INLET PIPE JOINT	Rc1/2	38C96-01051
14	FUEL RETURN PIPE JOINT	Rc1/2	38C96-01051
15	FUEL FILTER		
16	FUEL INJECTION PUMP		
17	OIL FILLER		
18	OIL LEVEL GAGE		
19	OIL FULL-FLOW FILTER		
20	OIL BY-PASS FILTER		
21	OIL BY-PASS ALARM SWITCH		38C96-01051
22	BREATHER		
23	WATER INLET PIPE JOINT		38C96-01051
24	WATER OUTLET PIPE JOINT		38C96-01051
25	WATER DRAIN COCK		
26	STOP SOLENOID (RUN-ON)		
27	EXHAUST GAS FLANGE	200A	
28	THERMOMETER, EX.GAS JOINT	G3/4	38C96-01051











MITSUBISHI HEAVY INDUSTRIES,LTD.
MAR. 29. 2016
ENGINEERING DEPARTMENT
ENGINE DIVISION

NOTES (1)THIS DRAWING SHOWS S6R2-PTA ENGINE WITH FAN.
(2)TURBOCHARGER IS MHI TD15-50B(34)/FOR 1500rpm SPEC.

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W/C

CHG	NO.	DATE	CHK

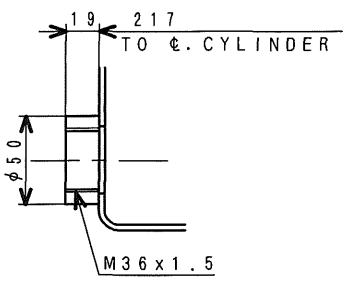
3rd ANGLE PROJECTION
SCALE :

承認 APPD	検図 CHK	製図 DWN
松口	T. HASEGAWA K. SAKAMOTO	H. YAMAGUCHI 2016. 3. 25

S6R2-PTA
DIESEL ENGINE
三菱重工業株式会社
MITSUBISHI HEAVY INDUSTRIES,LTD.
図面番号 DRAWING NO. 38C96-00251

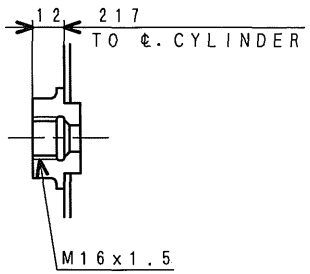
① 新規 4 旧引図 | サイズ A1 | ① 組立図 2 鋳鋼機械品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)

(8)



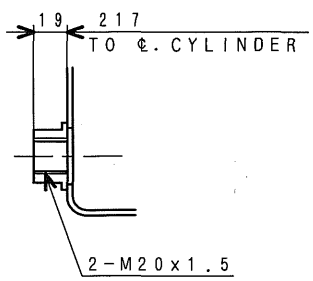
OIL PAN (C) JOINT

(7)



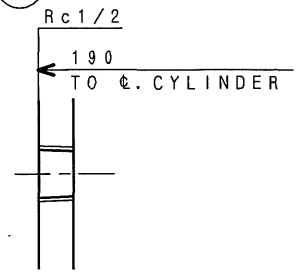
OIL PAN (B) JOINT

(6)



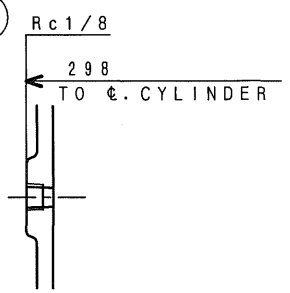
OIL PAN (A) JOINT

(4) (5)



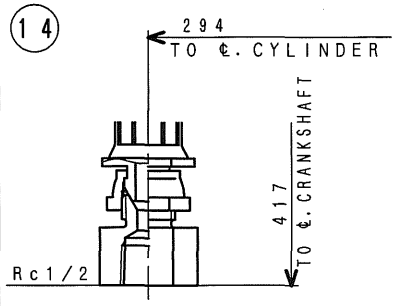
THERMOSWITCH JOINT
THERMOMETER UNIT JOINT

(2) (3)



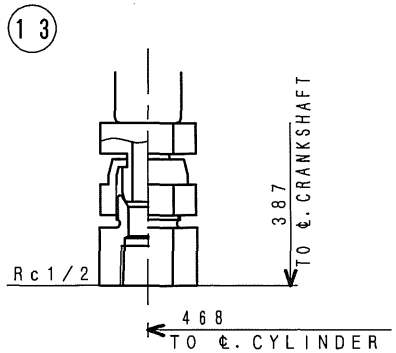
OIL PRESS. SWITCH JOINT
OIL PRESS. GAGE UNIT JOINT

(14)



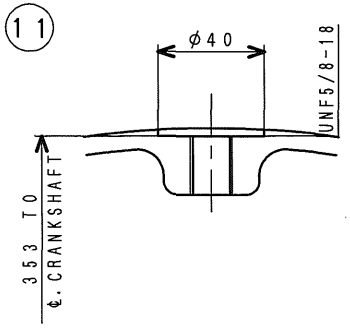
FUEL RETURN PIPE JOINT

(13)



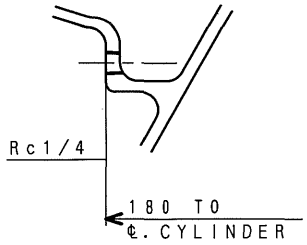
FUEL INLET PIPE JOINT

(11)



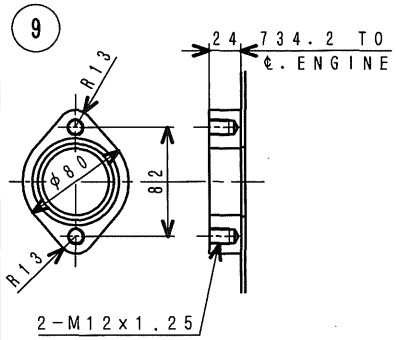
PICKUP JOINT

(10)



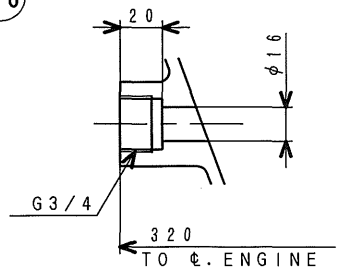
AIR PRESS. GAGE JOINT

(9)



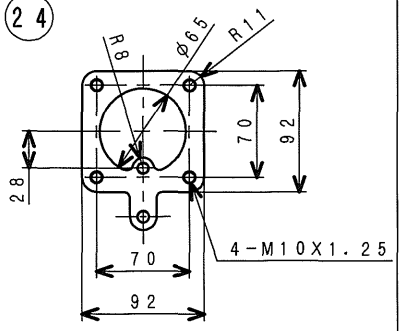
OIL PAN (D) JOINT

(28)



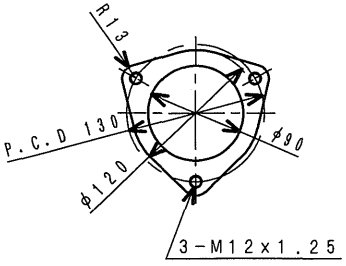
THERMOMETER, EX. GAS JOINT

(24)



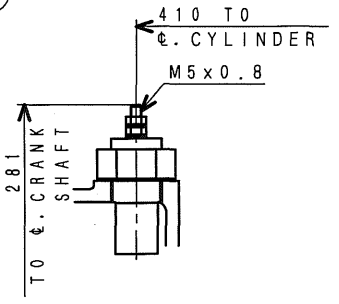
WATER OUTLET PIPE JOINT

(23)



WATER INLET PIPE JOINT

(21)



OIL BY-PASS ALARM SWITCH

M/C

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NOTE (1) THIS DRAWING SHOWS JOINT DETAIL OF S6R2-PTA(WITH FAN).

CHG	ED-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE

認可 APPD	検図 CHK	製図 DRN
橋口	T. HASEGAWA K. SAKAMOTO	N. YAMAGUCHI 2016. 3. 25

S6R2-PTA
JOINT DETAIL

三菱重工業株式会社
MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 38C96-01051 △

③新 図 ④旧引図	サイズ A3	①組立図	2 鋳鍛造部品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）

※ INSTRUMENT PANEL

min⁻¹ ※ TACHOMETER 0～2500min⁻¹

※ CONNECTOR C (Y B R L)

※ HARNESS

※ FILTER ALARM LAMP

FILTER ALARM SWITCH
37540-01301

BODY EARTH

※ PRESSURE GAGE OIL PRESS.

UNIT
04541-86200

☆ CONNECTOR A

※ THERMOMETER OIL TEMP.

UNIT
04524-02230

BODY EARTH

※ THRMOMETER WATER TEMP.

UNIT
04524-02230

BODY EARTH

※ STARTER SWITCH

TO HOURMETER TERMINAL ②-2

☆ CONNECTOR B

DYNAMO
04343-38000
DC24V 30A

MAGNETIC PICK UP
04410-43410

※ CONNECTOR D

※ CABLE

※ SAFETY RELAY FOR SWITCH LOCKOUT AT RUNNING

STARTER
38C66-00201
DC24V 7.5kW

※ BATTERY SWITCH

(NOTE)
DO NOT USE THIS BATTERY SWITCH WHEN ENGINE IS RUNNING. (DO NOT USE THIS SWITCH TO STOP ENGINE)

※ BATTERY
DC24V 250Ah

※ POWER RELAY

STOP SOLENOID
04400-08801

ACTUATOR
04410-32011

☆ HARNESS (5m)
04410-32902

☆ CONTROLLER
04410-33100
DC24V MAX. 14A

MAGNETIC PICKUP
04410-43410

☆ CABLE
04410-43500

※ POTENTIOMETER 10kΩ (FOR IDLING)

※ POTENTIOMETER 10kΩ (FOR RATED SPEED)

※ CIRCUIT CHANGING SWITCH

PRESSURE SWITCH
04442-45400
LOW OIL PRESS.
ON: 0.15MPa

THERMOSWITCH
04442-34500
HIGH WATER TEMP.
ON: 98℃

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(5) LENGTH OF CABLE BETWEEN BATT. AND BATT. SWITCH CONTROL POINT SHOULD BE LESS THAN 10M. IN CASE WHERE LENGTH OF PAID CABLE WOULD BE MORE THAN 10M, CABLE SIZE SHALL BE CONSIDERED. DESTINATION / WIRE SIZE (① - 5)

(4) MEANING OF THE WIRE SYMBOL.

(3) CONNECTOR ARRANGEMENT IS SEEN FROM ARROW SIDE.

(2) THE MARK ☆ IS SUPPLIED WITHOUT ASSEMBLED ON ENGINE.

NOTES (1) THE WIRING AND THE MARK ※ IS NOT PREPARED BY SME.

M/C

KEY SWITCH CONDITION

KEY POSITION	CONNECTION B	M	S
STOP	○		
RUN	○	○	
START	○	○	○

AUTO RETURN

CONNECTOR A
MH052231 (2P)

CONNECTOR B
32B90-00300 (2P)

CONNECTOR C

CONNECTOR D

MITSUBISHI HEAVY INDUSTRIES, LTD.
MAR. 29. 2016
ENGINEERING DEPARTMENT
ENGINE DIVISION

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

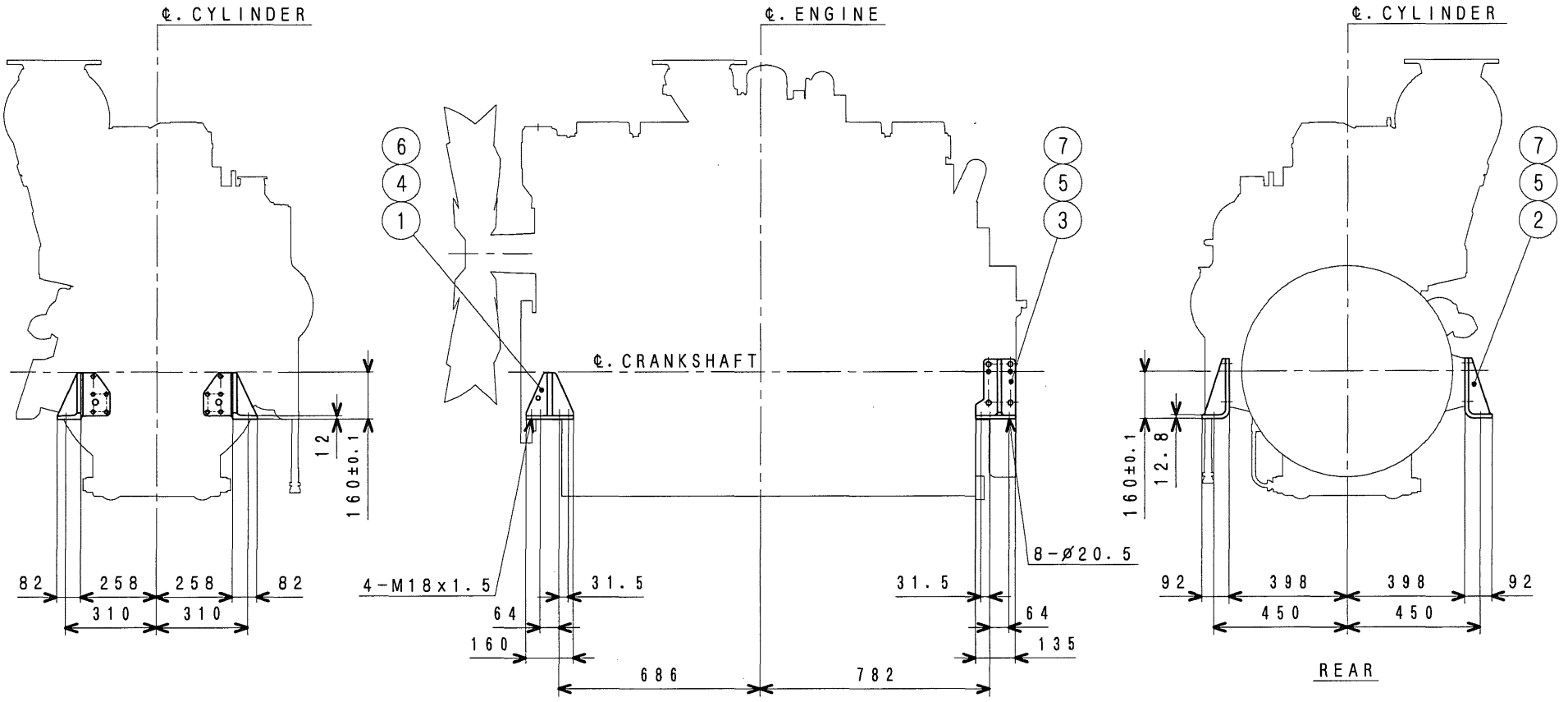
承認 APPD 梅沢
検図 CHK T. HASEGAWA K. SAKAMOTO
製図 DRN N. YAMAGUCHI 2016. 3. 25

S6R2
WIRING DIAGRAM

三菱重工業株式会社
MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 38C96-04051 △

③新図 4旧引図 | サイズ A2 | ①組立図 | 2鋳鍛鋳単品 3板金溶接品 4組立品 5切削品 6その他(購入品)



No.	PARTS NO.	PARTS NAME	Q'TY
7	31201-71800	WASHER	8
6	37525-07901	WASHER, SK5, M12	10
5	F1035-16040	BOLT	8
4	F1035-12075	BOLT	10
3	37514-31200	BRACKET, MTG. RE. LH	1
2	37514-41100	BRACKET, MTG. RE. RH	1
1	37514-20100	BRACKET, MTG. FR	2

旧引
三菱
汎特
2008
11.11

FULL-CAD

注記 (1)本図は、陸用標準(C=160)マウンチングである。

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
2	4590-B367	'08. 8.29	斎藤
1	4591-0408	'03.11.18	福田

3rd ANGLE PROJECTION
尺度 SCALE :

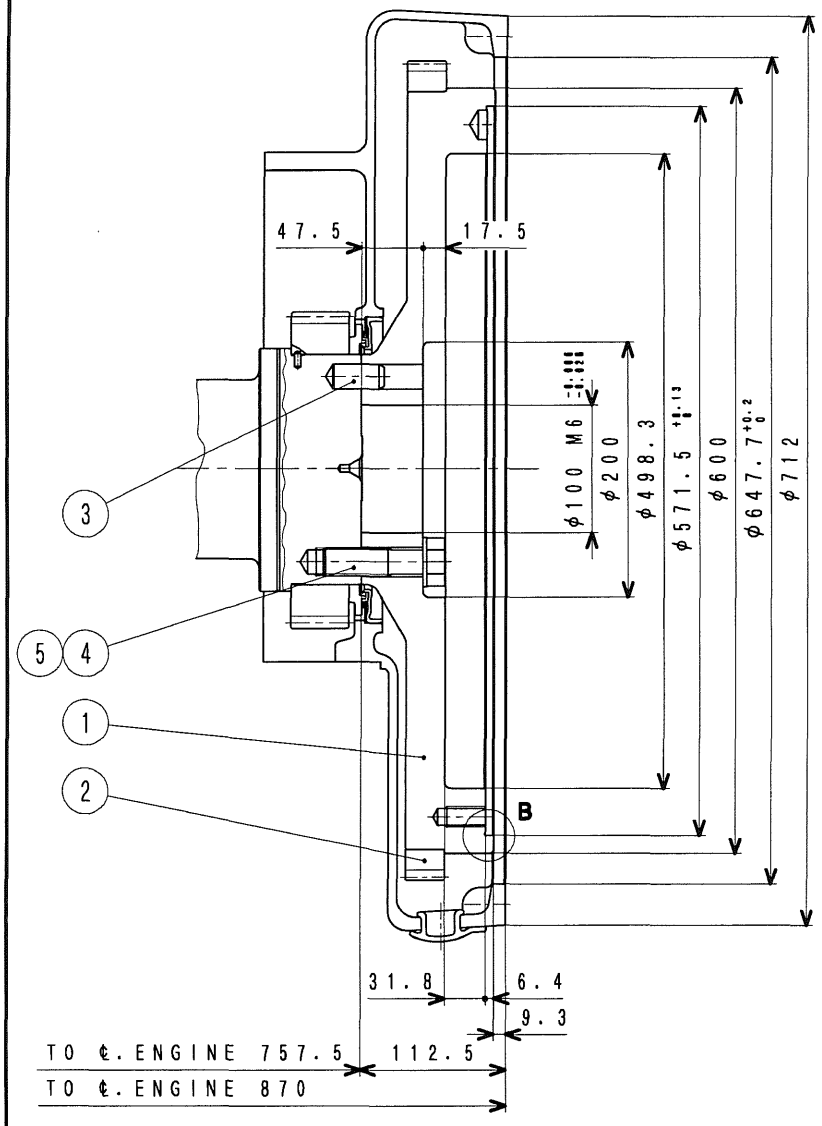
認可 APPD	検図 CHK	製図 DRN
仁尾	竹福谷田	谷斎戸藤
		1997. 8.20

S6R, S6R2
MOUNTING

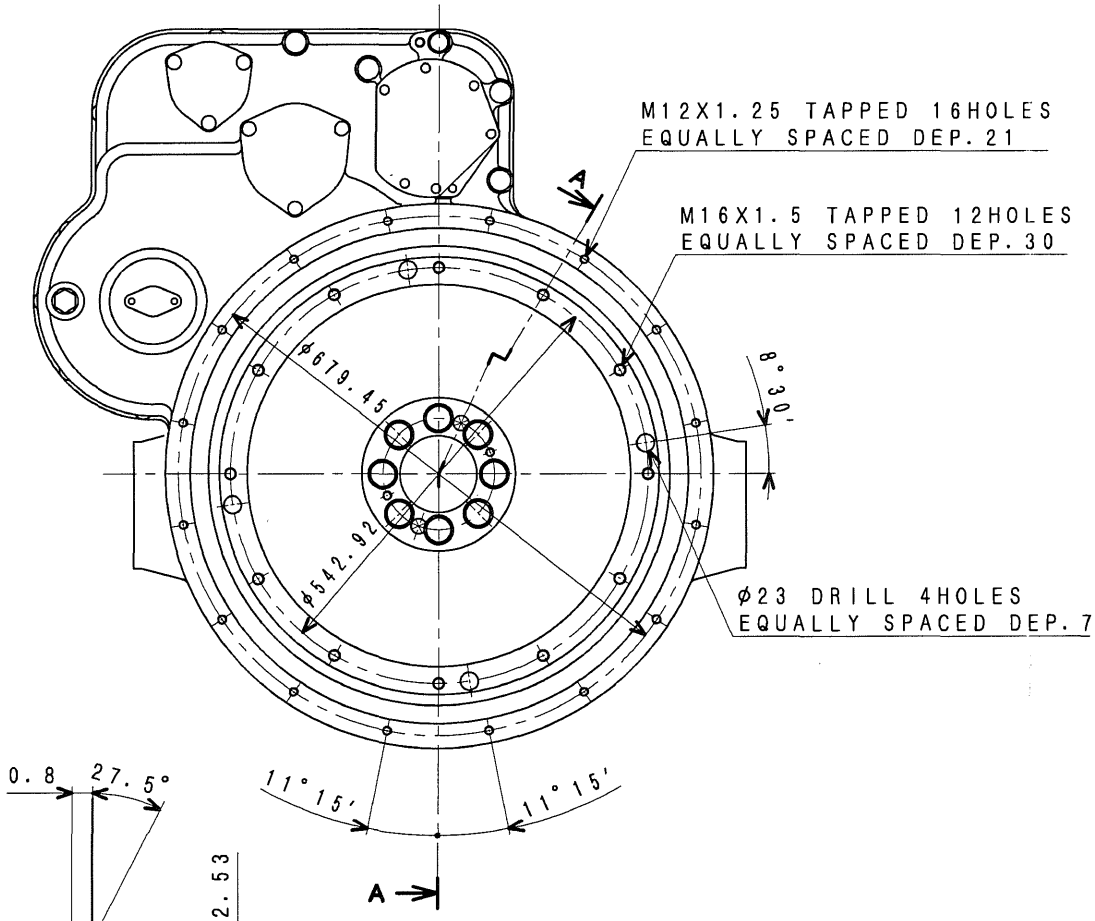
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 DRAWING No. 37596-14001 ②

3 新図 ④旧引図 | サイズ A3 | ①組立図 | 2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)



SECTION A-A



DETAIL B

NO.	PARTS NO.	PARTS NAME		Q'TY
5	33707-11701	WASHER		8
4	F1035-22080	BOLT		8
3	F2846-20000	PIN, DOWEL		2
2	32521-02201	GEAR, RING	37521-00013	1
1	37521-10102	FLYWHEEL	F/W ASSY.	1

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
4	4590-B058	'05.7.19	浅沼
3	4591-0276	'01.9.24	福田
2	4590-8209	'01.9.5	福田
5	4590-H069	'11.12.9	浅沼

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
橋口	塚中 本村	谷斉 戸藤
		1997. 9.22

S6R
FLYWHEEL & HOUSING

三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

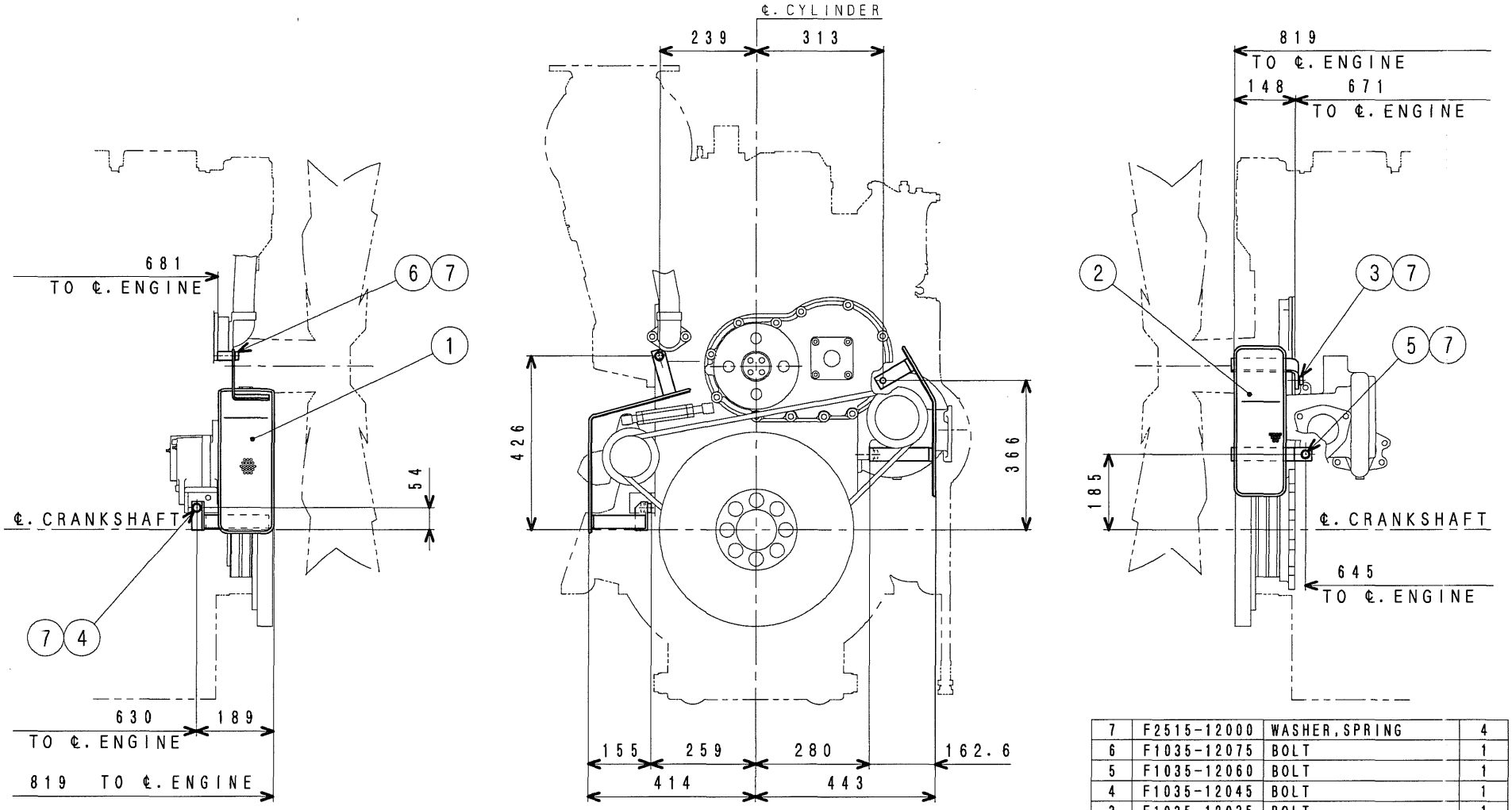
図面番号 DRAWING No. 37596-21001 ⑤

注記
(2) 部番37521-00013F/W ASSY. は、符号①, ②の組合せ部番である。
(1) 本図は、標準フライホイール&ハウジングであり、SAEJ620c18inフライホイール及びSAEJ617b NO. 0フライホイールハウジングに相当。

3 新図 ④旧引図	サイズ A3	①組立図	2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)

旧引 汎特 2011 12.23

M/C



No.	PARTS NO.	PARTS NAME	Q'TY
7	F2515-12000	WASHER,SPRING	4
6	F1035-12075	BOLT	1
5	F1035-12060	BOLT	1
4	F1035-12045	BOLT	1
3	F1035-12035	BOLT	1
2	47502-27200	COVER,BELT	1
1	47501-21200	COVER,BELT	1

旧引
汎特
2005
4.19

FULL-CAD

MHI CONFIDENTIAL

注記 (1)本図は、S6R2ファン付用標準ベルトカバーである。ファン付エア直始動も使用可。

CHG	ED-NO	DATE	CHK
2	4590-B075	'05. 4. 8	浅沼
1	4590-7245	'00.11.10	福田

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
松下	竹福谷田	谷戸
		1997. 6.20

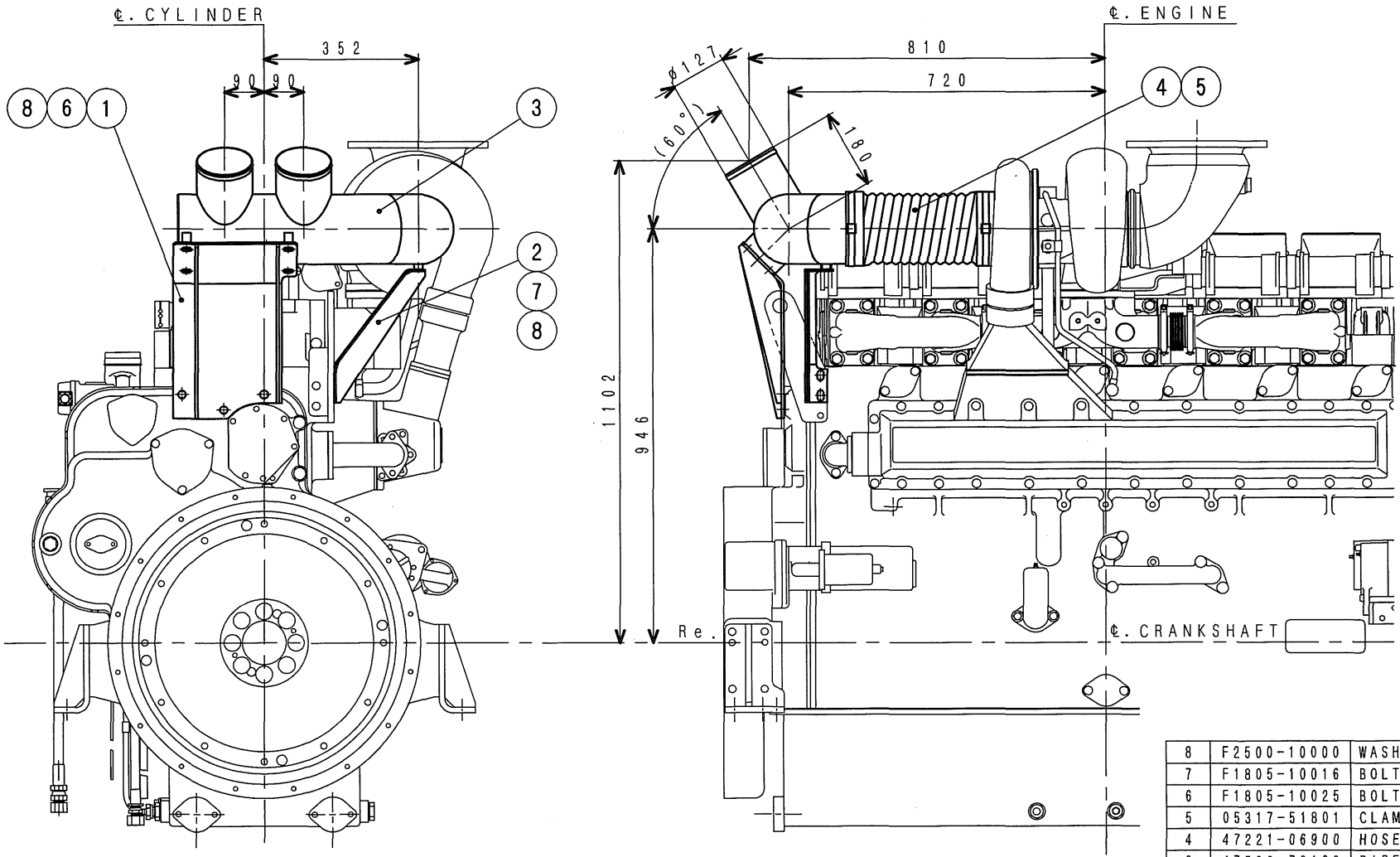
S6R2

BELT COVER

三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES,LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 DRAWING No. 37596-25180 ②

3 新図 ④旧引図	サイズ A3	①組立図	2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)



No.	PARTS NO.	PARTS NAME	Q'TY
8	F2500-10000	WASHER, PLAIN	5
7	F1805-10016	BOLT	1
6	F1805-10025	BOLT	4
5	05317-51801	CLAMP	2
4	47221-06900	HOSE, AIR	1
3	47500-70100	PIPE, AIR	1
2	47500-70400	STAY	1
1	47500-74200	BRACKET	1

M/C

MHI CONFIDENTIAL

NOTE (1) THIS DRAWING IS USING WITH DWG. NO. 38C96-30351(PTA), NO. 38C96-30352(PTAA).

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION

尺度 SCALE :

認可 APPD

検図 CHK T. HASEGAWA K. SAKAMOTO

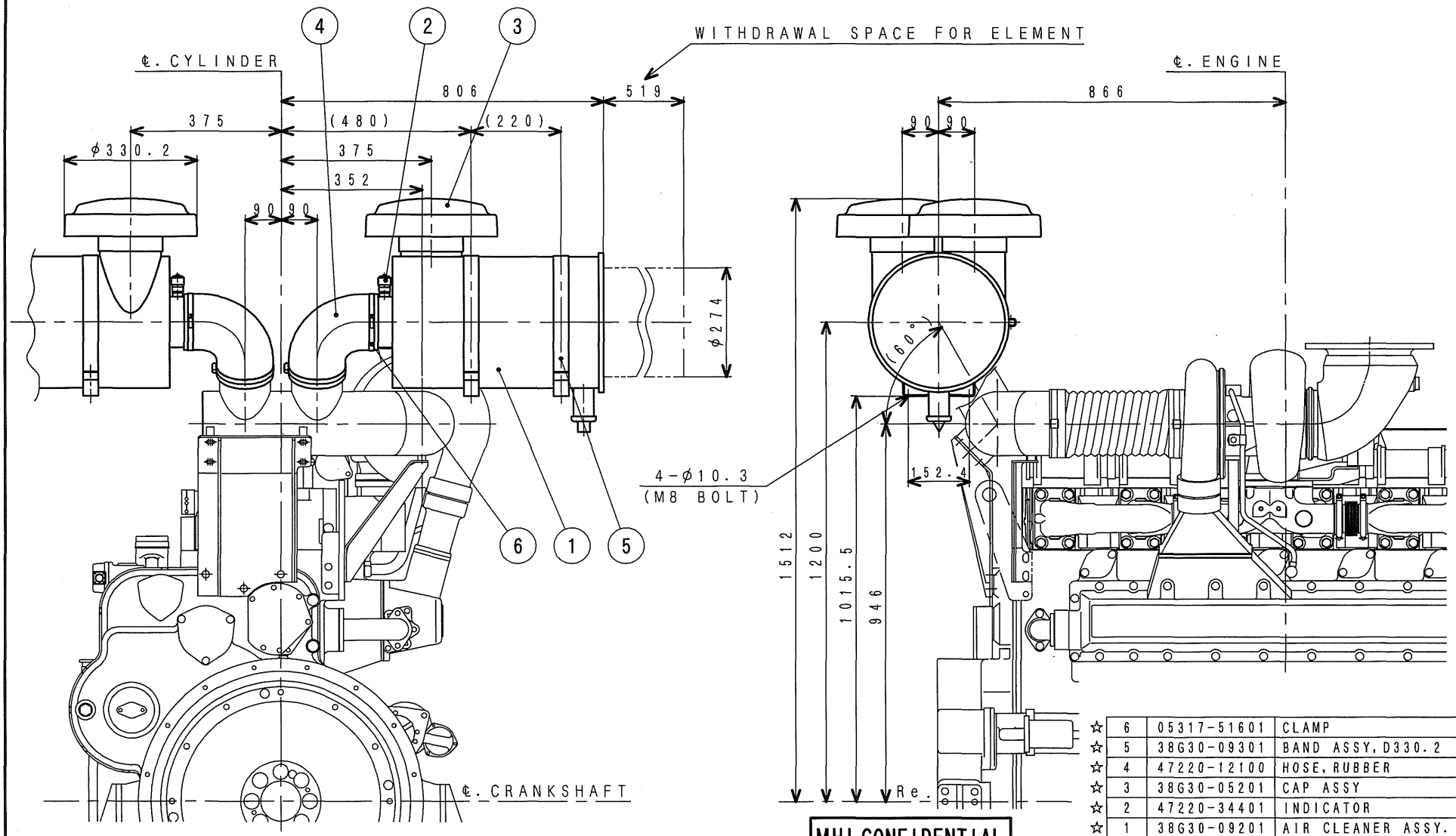
製図 DRN N. YAMAGUCHI 2016. 3. 25

S6R2
AIR INLET PIPING

三菱重工業株式会社
MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 38C96-30151

③新 図 4旧引図 | サイズ A3 | ①組立図 | 2鋳鍛造単品 3板金溶接品 4組立品 5切削品 6その他(購入品)



	No.	PARTS NO.	PARTS NAME	Q'TY
☆	6	05317-51601	CLAMP	4
☆	5	38G30-09301	BAND ASSY, D330.2	4
☆	4	47220-12100	HOSE, RUBBER	2
☆	3	38G30-05201	CAP ASSY	2
☆	2	47220-34401	INDICATOR	2
☆	1	38G30-09201	AIR CLEANER ASSY.	2

M/C

MHI CONFIDENTIAL

NOTES
(1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.
(2) THIS DRAWING IS USING WITH DWG. NO. 38C96-30151.
(3) THIS AIR CLEANER IS AH-330018 TYPE PRODUCED BY ADRINDO.

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

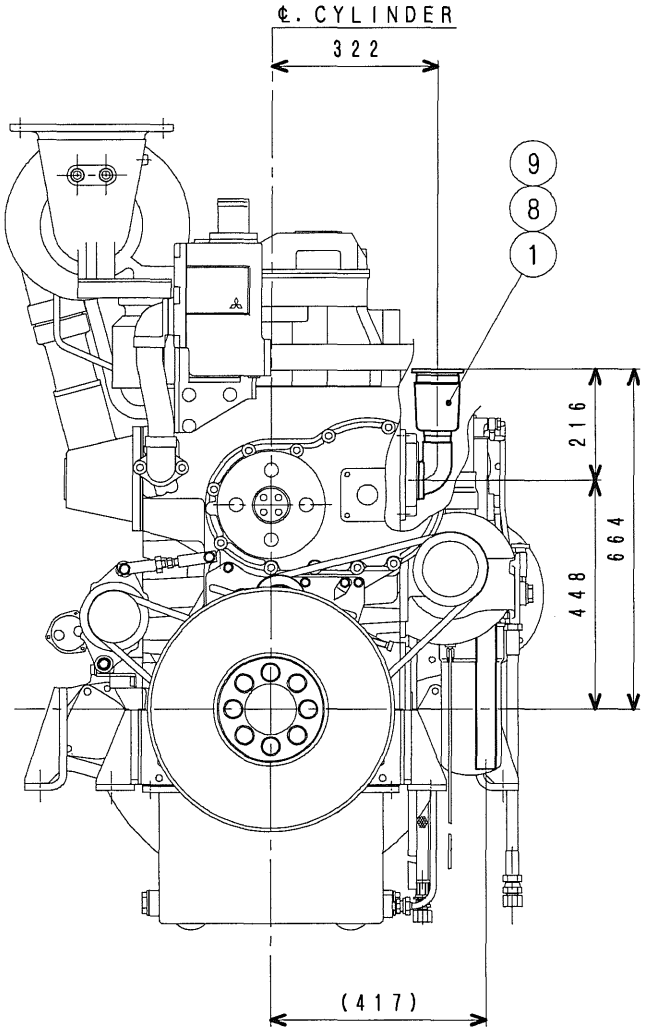
認可 APPD
検図 CHK T. HASEGAWA K. SAKAMOTO
製図 DRN N. YAMAGUCHI 2016. 3. 25

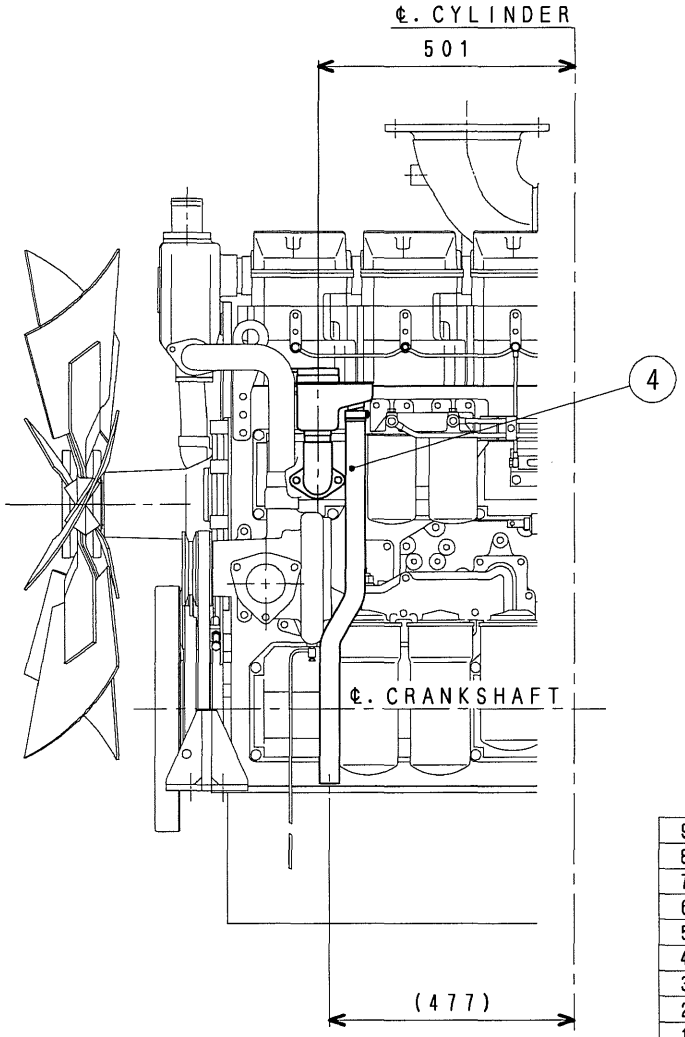
S6R2-PTA
AIR CLEANER

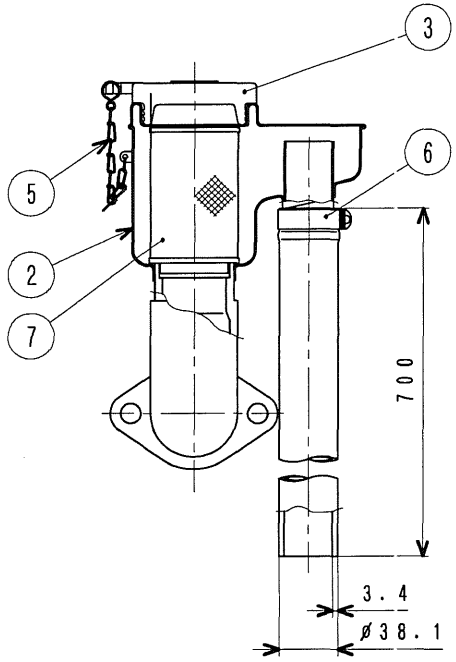
三菱重工業株式会社
MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 38C96-30351 △

③新 図 4旧引図 | サイズ A3 | ①組立図 | 2 鋳鍛鋳単品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）







DETAIL OF BREATHER

No.	PARTS NO.	PARTS NAME	Q'TY
9	F1805-12025	BOLT	2
8	35836-02900	PACKING	1
7	32542-11300	ELEMENT	1
6	05317-50401	CLAMP	(1)
5	30042-08201	CHAIN	(1)
4	32042-20500	PIPE,BREATHER	(1)
3	32542-01100	CAP	(1)
2	37543-10100	BREATHER	(1)
1	37543-10020	BREATHER ASSY.	1

旧引
汎特
2006
11.17

FULL-CAD

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
2	4590-C595	'06.11.7	斉藤
1	4590-7246	'00.11.10	福田

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
松下	福谷 田戸	斉藤
		1999. 5.20

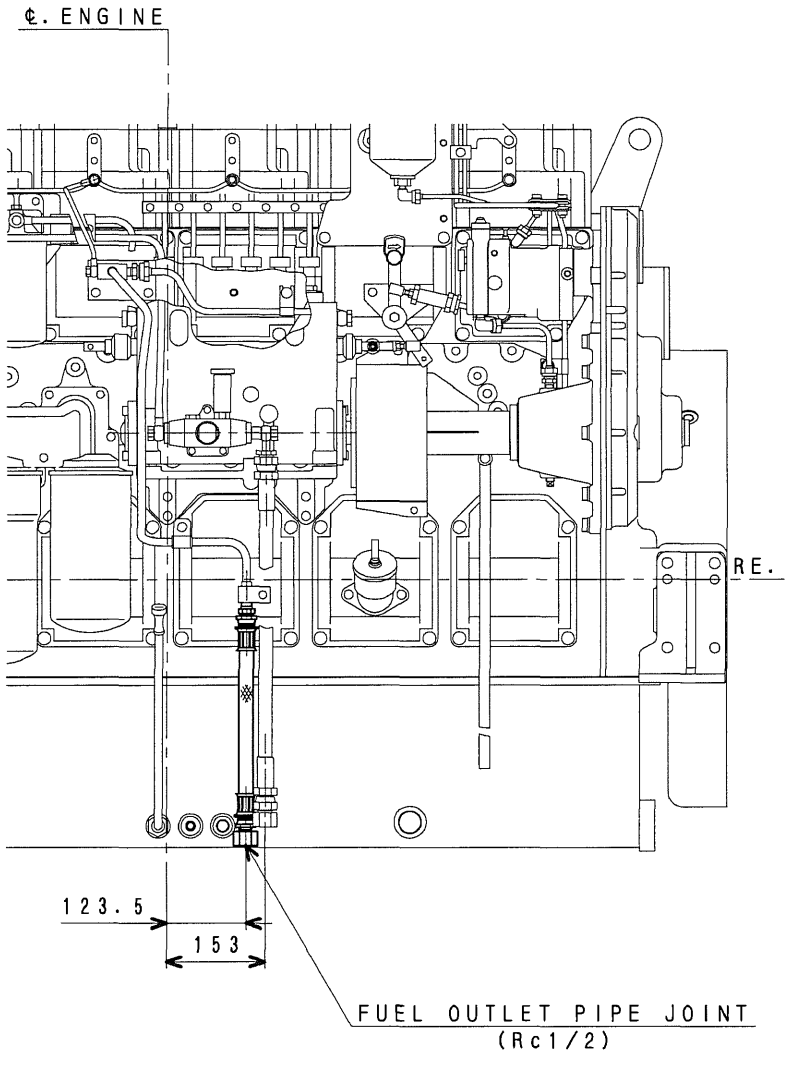
S6R2

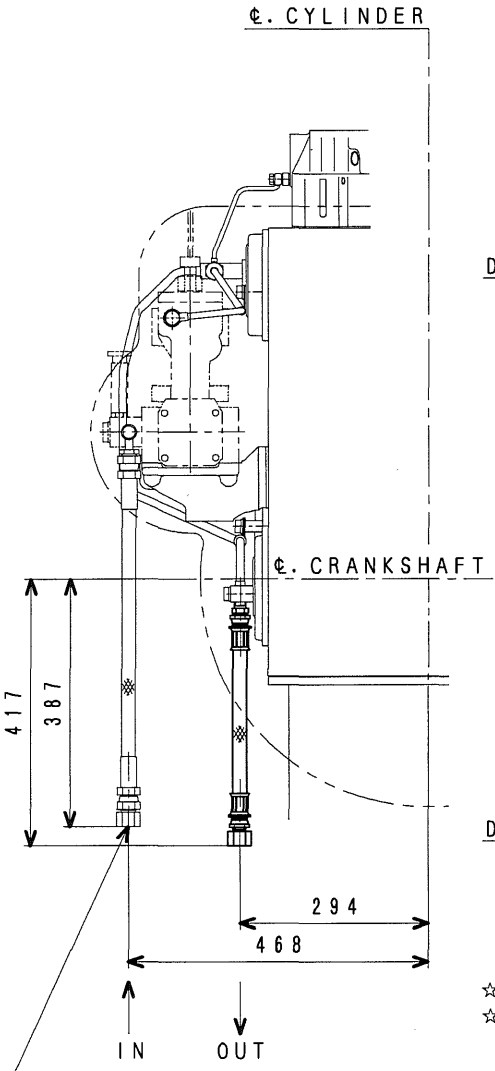
BREATHER

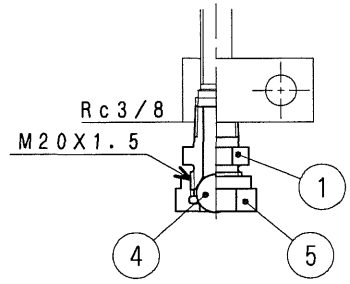
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES,LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 DRAWING No. 37596-43081 ②

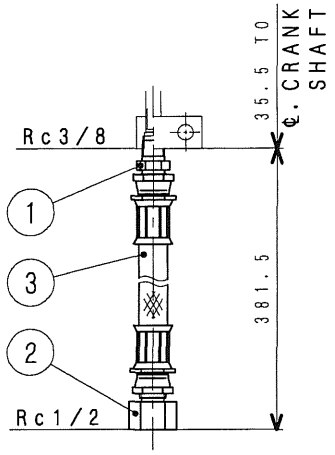
3 新図 ④ 旧引図	サイズ A 3	① 組立図	2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）







DETAIL OF FUEL OUTLET PIPE JOINT



DETAIL OF FUEL OUTLET PIPE JOINT

NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	No.	PARTS NO.	PARTS NAME	Q'TY
	5	F4521-10000	NUT, UNION	1
	4	F8000-19000	STEEL BALL, BEARING	1
☆	3	45951-10030	PIPE, FLEXIBLE	1
☆	2	45950-11400	CONNECTOR	1
	1	00434-12011	CONNECTOR	1

出図
汎特
2008
10.10

FULL-CAD

MHI CONFIDENTIAL

注記 (1) 本図は、図番37596-61302に対しフレキホース及び先端コネクタを別送品としたものである。
(2) 本図の符号 ④⑤ は、燃料戻り口盲栓である。(エンジン出荷状態)

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

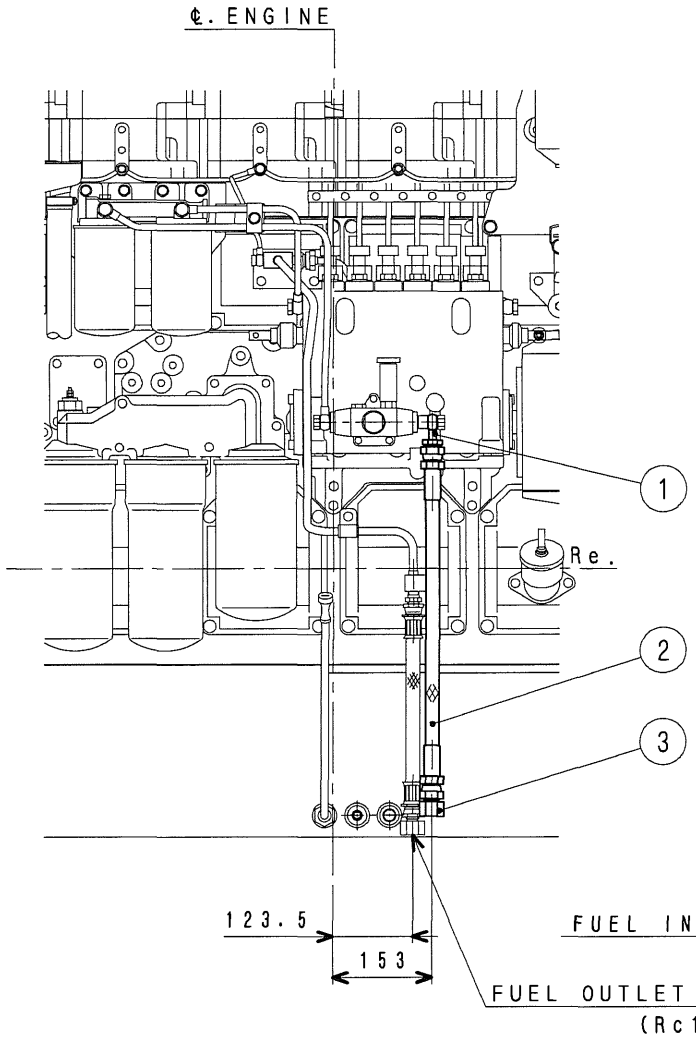
認可 APPD	検図 CHK	製図 DRN
橋口	三谷 上戸	浅沼
		2008.10.1

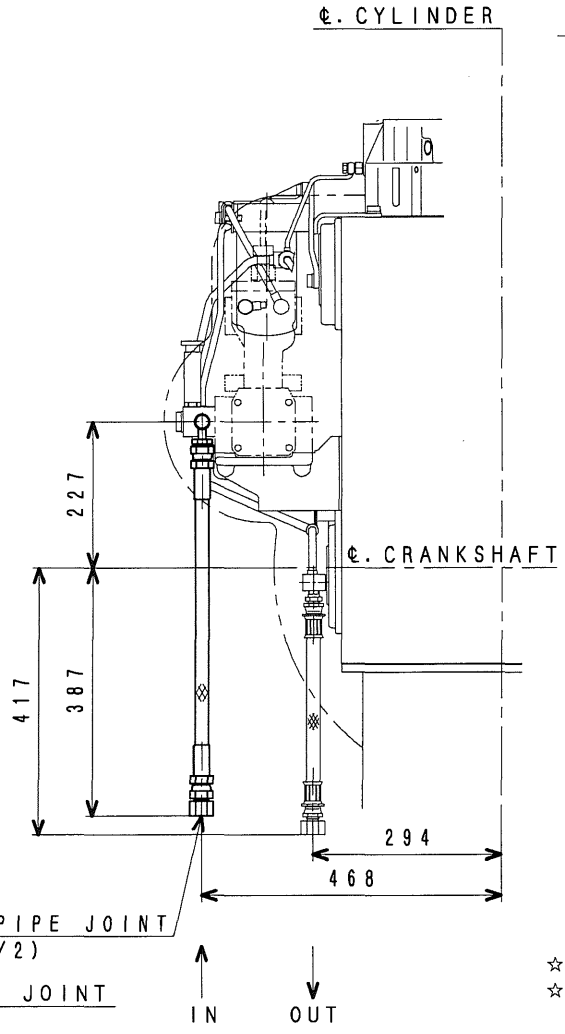
S6R, S6R2
FUEL RETURN PIPING

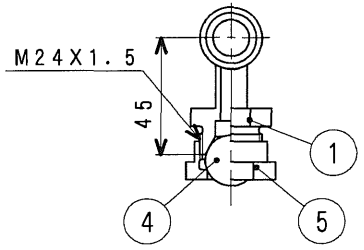
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 DRAWING No. 37596-61312 △

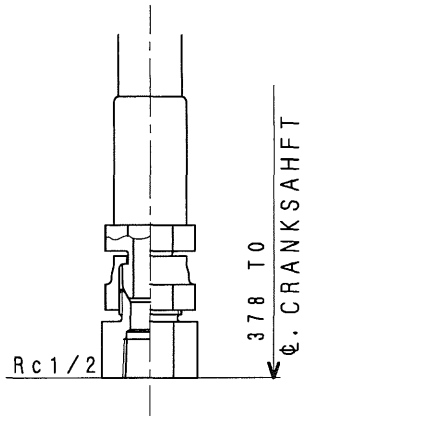
③新図 4旧引図 | サイズ A3 | ①組立図 2鋳鍛歯車品 3板金溶接品 4相立品 5切削品 6その他(購入品)







FUEL INLET PIPE JOINT



FUEL INLET PIPE JOINT

NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	No.	PARTS NO.	PARTS NAME	Q'TY
	5	00426-15011	NUT, UNION	1
	4	F8000-25000	STEEL BALL, BEARING	1
☆	3	45950-11100	CONNECTOR	1
☆	2	45950-51500	PIPE, FLEXIBLE	1
	1	37161-04500	CONNECTOR	1

出図
三菱
汎特
2008
10.10

FULL-CAD

MHI CONFIDENTIAL

注記 (1) 本図は、図番37596-62101に対しフレキホース及び先端コネクタを別送品としたものである。
(2) 本図の符号 ④⑤ は、燃料入口盲栓である。(エンジン出荷状態)

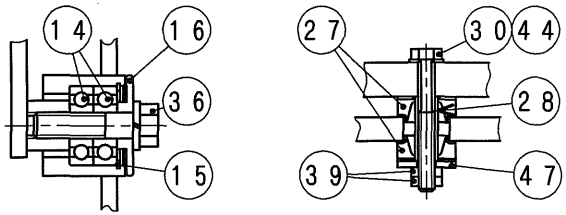
CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
橋口	三谷 上戸	浅沼 2008.10.1

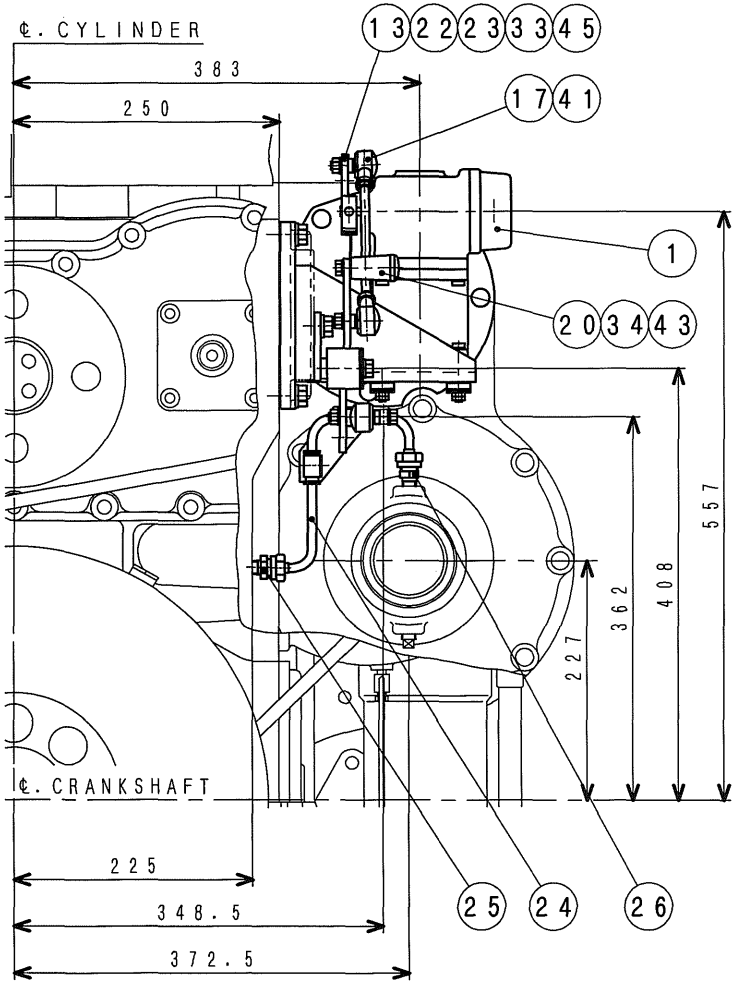
S6R, S6R2
FUEL INLET PIPING
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.
図面番号 DRAWING No. 37596-62112

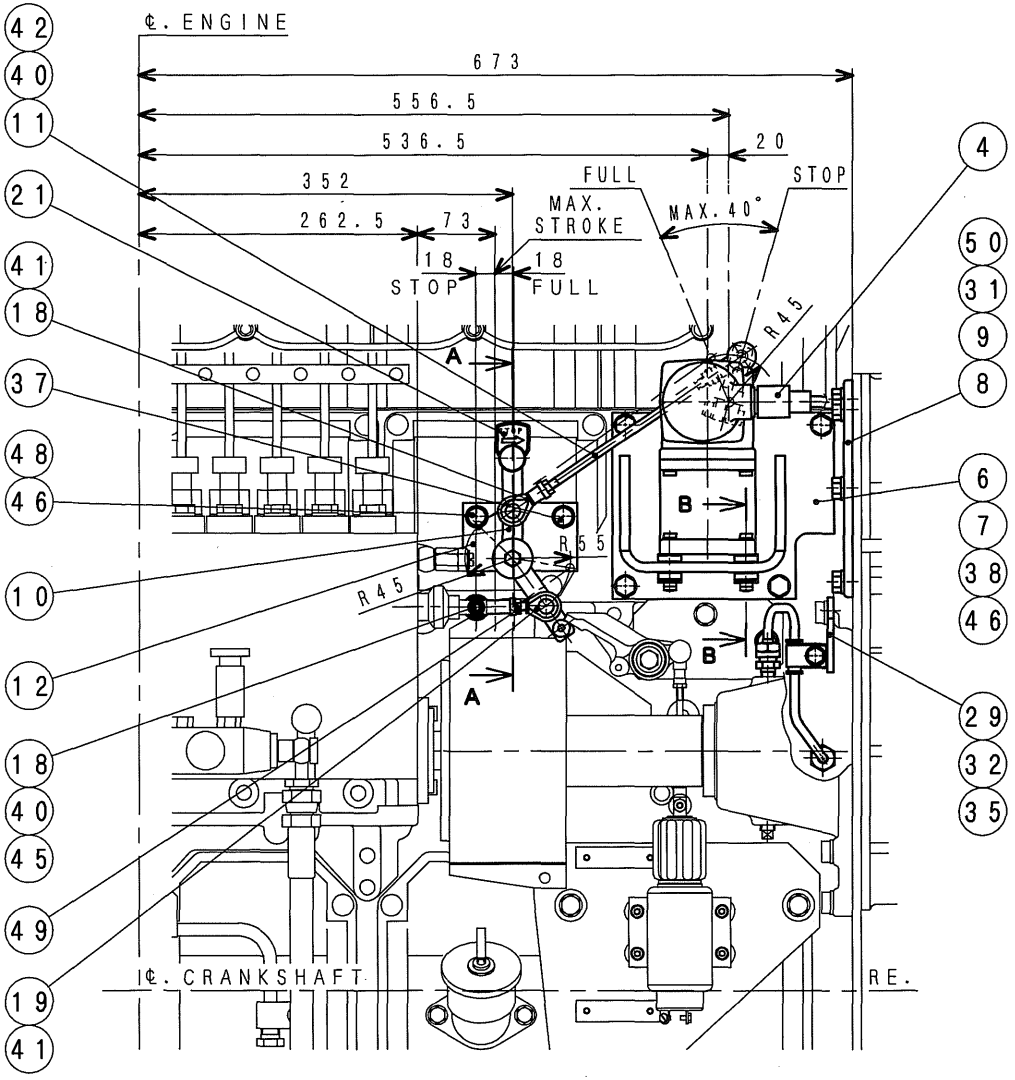
③ 新図 4 旧引図 | サイズ A3 | ① 組立図 | 2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)



SECTION A-A

SECTION B-B





M/C

(2) THIS DRAWING SHOWS SG4017BR ELECTRONIC GOVERNOR (2 WIRE SYSTEM) TYPE.

NOTES (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION

尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
橋口	T. HASEGAWA K. SAKAMOTO	N. YAMAGUCHI 2016. 3. 25

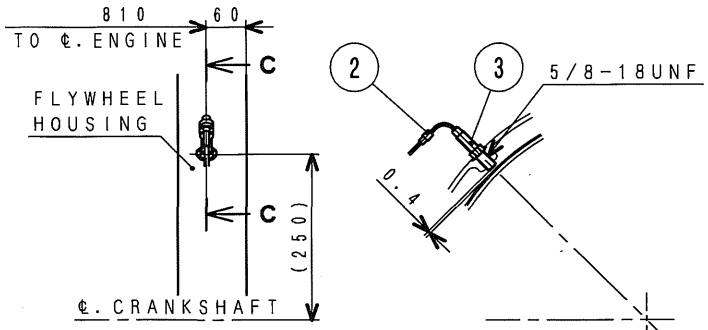
S6R, S6R2 GOVERNOR

三菱重工業株式会社
MITSUBISHI HEAVY INDUSTRIES, LTD.

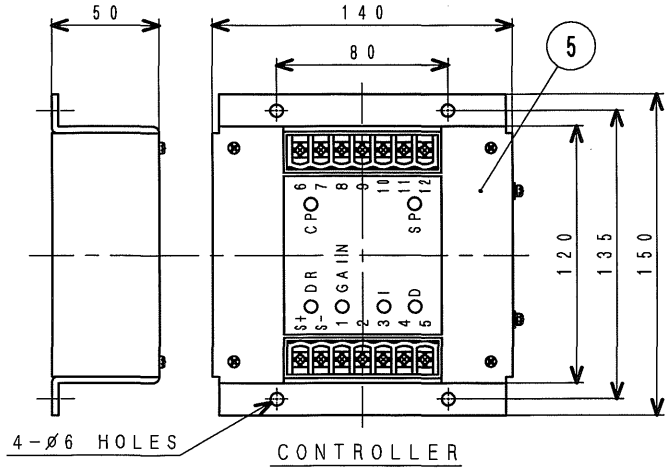
図面番号 DRAWING No. 38C96-63051 △

1/2

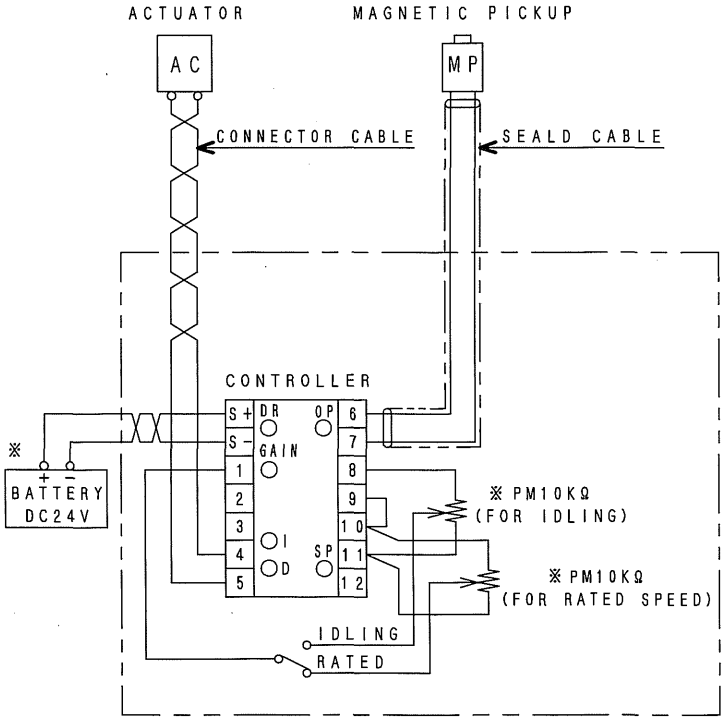
③新 図 ④旧引図	サイズ A3	①組立図	2 鋳鍛鋼単品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）



DETAL OF PICK UP　　SECTION C-C



CONTROLLER



WIRING

・THE WIRING AND THE ※ MARKED PARTS ARE NOT SUPPLIED.

No.	PARTS NO.	PARTS NAME	Q'TY	
50	37525-07901	WASHER, SK5, M12	4	
49	F2300-08000	NUT	1	
48	37563-05500	BOLT, M12 L25, JAM	1	
47	08302-06000	WASHER	4	☆
46	F2515-12000	WASHER, SPRING	5	☆
45	F2515-08000	WASHER, SPRING	2	
44	F2515-06000	WASHER, SPRING	4	☆
43	F2500-08000	WASHER, PLAIN	1	

No.	PARTS NO.	PARTS NAME	Q'TY	
42	09413-00800	NUT, LOCK	1	
41	F2445-08000	NUT	3	
40	F2320-08000	NUT	2	
39	F2300-06000	NUT	8	
38	F1035-12035	BOLT	4	
37	F1805-12025	BOLT	1	
36	F1805-10040	BOLT	1	
35	F1805-10016	BOLT	1	
34	F1805-08025	BOLT	1	
33	F1115-08025	BOLT	1	
32	F1035-12050	BOLT	1	
31	F1035-12035	BOLT	4	
30	F1035-06055	BOLT	4	
29	37536-04900	STAY, PIPE	1	
28	47500-34200	SPACER	4	
27	47500-34100	CUSHION, RUBBER	8	
26	F4540-08000	CONNECTOR	1	
25	37536-01800	CONNECTOR	1	
24	37536-68701	PIPE, OIL	1	
23	35A61-19900	WIRE, SEAL	1	
22	48000-96600	SEAL	1	
21	38G61-00201	PLATE, CAUTION	1	
20	51776-03000	GRIP	1	
19	37563-15401	JOINT, BALL (M8-R)	1	
18	35A61-38601	JOINT, BALL (M8-R)	2	
17	35A61-38701	JOINT, BALL (M8-L)	1	
16	32561-18300	PLATE, END	1	
15	F3202-03000	RING, SNAP	1	
14	F8007-06200	BEARING, BALL	2	
13	47500-34501	LEVER, CONTROL	1	
12	37563-04102	BRACKET, LEVER PSG	1	
11	05902-08210	ROD	1	
10	47500-32200	LEVER, RACK CONTROL	1	
9	05507-21450	O-RING	1	
8	47500-39901	COVER	1	
7	37507-04900	PACKING	1	
6	47500-33900	BRACKET, ACTUATOR	1	
5	04410-33100	CONTROLLER	1	☆
4	04410-32902	CONNECTOR	1	☆
3	04410-43410	PICKUP, MAGNETIC	1	
2	04410-43500	CABLE, PICK UP	1	☆
1	04410-32011	ACTUATOR	1	

M/C

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

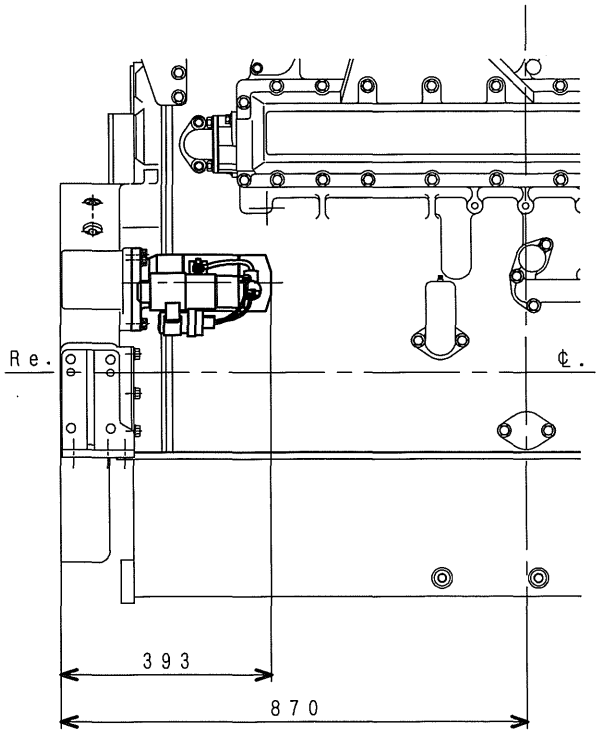
認可 APPD	検図 CHK	製図 DRN
栃口	T. HASEGAWA K. SAKAMOTO	N. YAMAGUCHI 2016. 3. 25

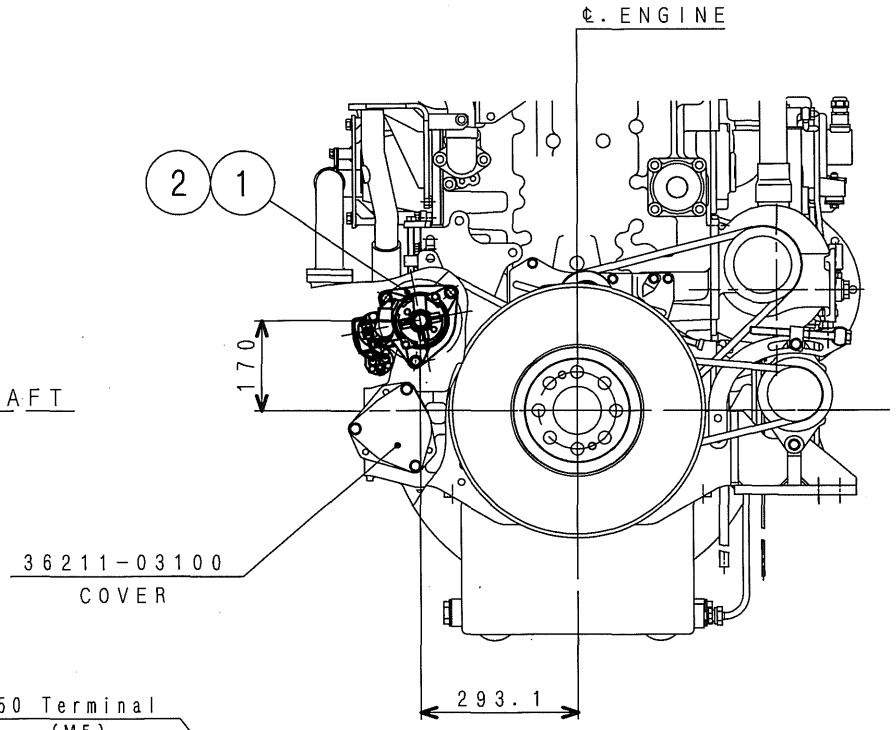
S6R, S6R2 GOVERNOR

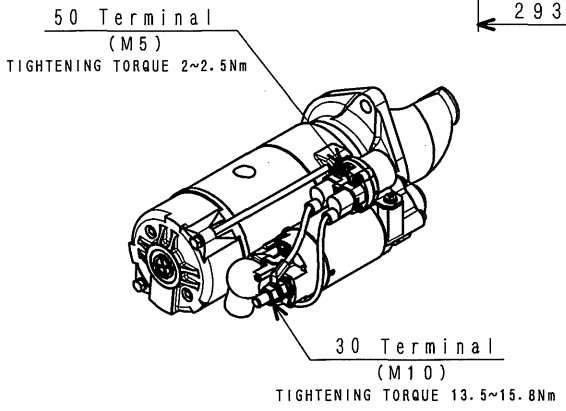
三菱重工業株式会社
MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 38C96-63051 △ 2/2

③新 図 4 旧引図 | サイズ A3 | ①組立図 | 2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）

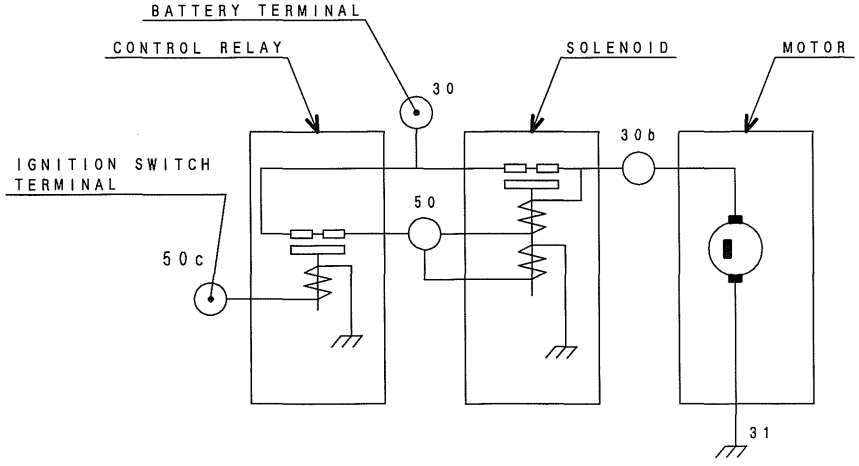






※THIS VIEW DOES NOT SHOW THE INSTALLATION ATTITUDE.

※ALL NUTS FOR WIRING BELONG TO STARTER (NO NEED TO PREPARE) TIGHTENING TORQUE SHALL CONFORM TO THE INDICATION ON THIS FIGURE.



CIRCUIT DIAGRAM

No.	PARTS NO.	PARTS NAME	Q'TY
2	F1805-12035	BOLT	3
1	38C66-00201	STARTER, 7.5kW	1

M/C

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION

尺度 SCALE :

認可 APPD 楊口

検図 CHK T. HASEGAWA K. SAKAMOTO

製図 DRN N. YAMAGUCHI

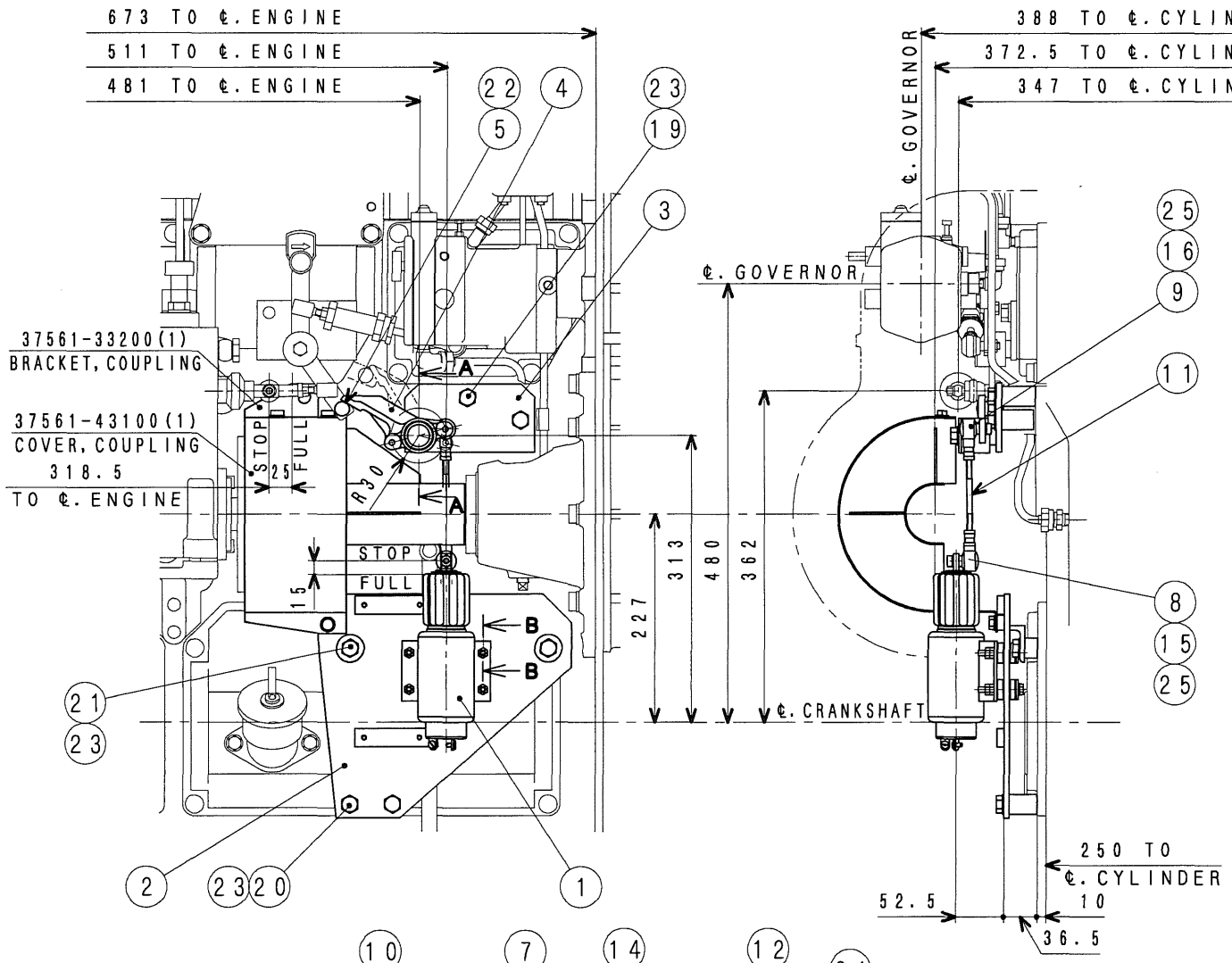
2016. 3.25

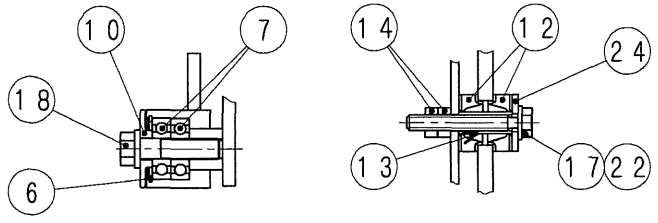
S6R2 STARTING MOTOR

三菱重工業株式会社
MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 38C96-66051 △

③新図 4旧引図 | サイズ A3 | ①組立図 | 2鋳鍛歯車品 3板金溶接品 4組立品 5切削品 6その他(購入品)





NO.	PARTS NO.	PARTS NAME	Q'TY
25	05634-00610	NUT, SELF LOCKING	2
24	08302-06000	WASHER	4
23	F2515-12000	WASHER, SPRING	6
22	F2515-06000	WASHER, SPRING	5
21	F1035-12050	BOLT	2
20	F1035-12070	BOLT	2
19	F1035-12075	BOLT	2
18	F1805-10040	BOLT	1
17	F1035-06045	BOLT	4
16	09413-00600	NUT	1
15	F2320-06000	NUT	1
14	F2300-06000	NUT	8
13	47500-36700	SPACER	4
12	47500-34100	RUBBER, CUSHION	8
11	05902-06110	ROD	1
10	32561-18300	PLATE, END	1
9	35A61-58401	JOINT, BALL (M6-L)	1
8	35A61-58301	JOINT, BALL (M6-R)	1
7	F8007-06200	BEARING, BALL	2
6	F3202-03000	RING, SNAP	1
5	37587-00900	FOLLOWER	1
4	37587-04403	LEVER, STOP	1
3	37587-04202	BRACKET, LEVER	1
2	47500-36602	BRACKET, SOLENOID	1
1	04400-08801	SOLENOID, RUN-ON	1

旧引 三菱 2014 11.12

M/C

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
4	4590-C246	'06. 7.28	斉藤
7	4590-J097	'14.10.22	横田
6	4590-H433	'12.11.29	谷戸
5	4590-F454	'09. 5.19	浅沼

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
中村	中谷 (株)村戸	谷横 戸田
	1997. 8.21	

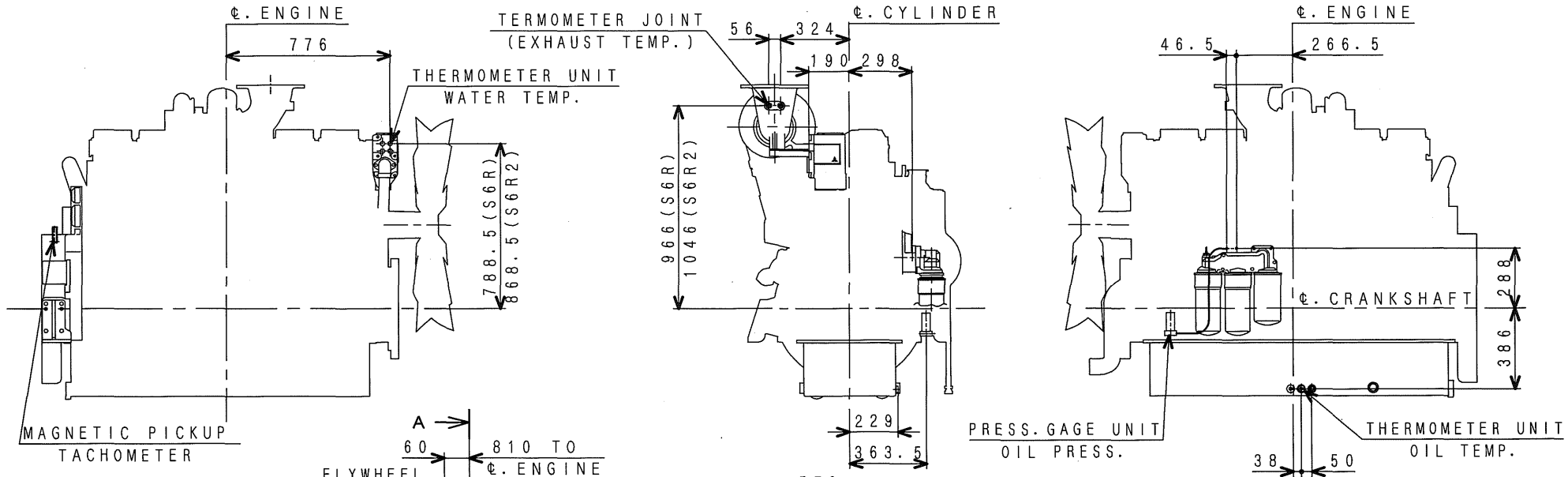
S6R, S6R2 STOP SOLENOID

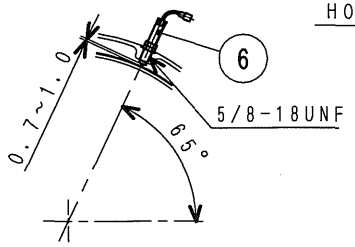
三菱重工業株式会社
MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 37596-87502 7

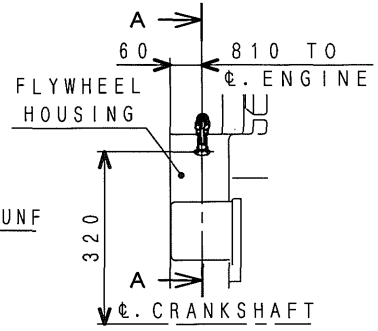
3 新図 ④旧引図 | サイズ A3 | ①組立図 | 2 鋳鍛鋼単品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)

注記
(2)本図のソレノイドは，DC24V RUN-ON 標準品である。
(1)ストップソレノイド用ブラケットは，RUN-ON(クッションラバー付)及びRUN-OFF共用。

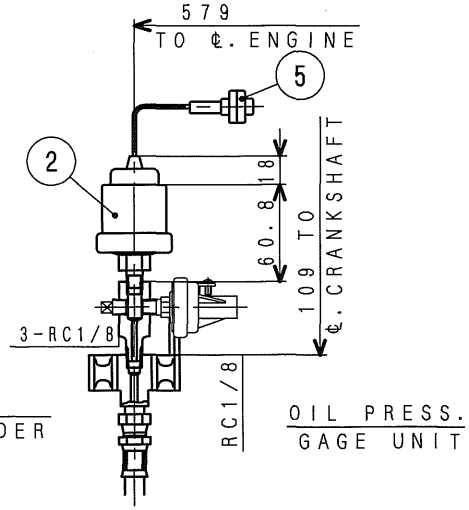




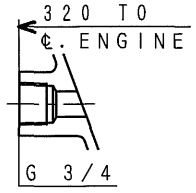
SECTION A-A



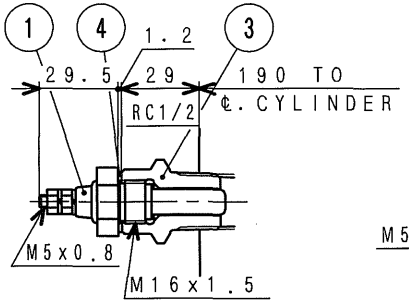
TACHOMETER PICKUP



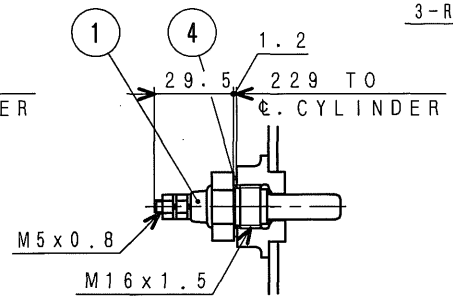
OIL PRESS.
GAGE UNIT



THERMOMETER JOINT
(EXHAUST TEMP.)



THERMOMETER UNIT
WATER TEMP.



THERMOMETER UNIT
OIL TEMP.

	No.	PARTS NO.	PARTS NAME	Q'TY
	6	04410-43410	PICK UP	1
☆	5	MH052-231	CONNECTOR	1
	4	05946-01601	WASHER, SEALING	2
	3	45600-42902	CONNECTOR	1
	2	04541-86200	UNIT, GAGE	1
	1	04524-02230	UNIT, THERMO	2

M/C

MHI CONFIDENTIAL

NOTES (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.
(2) RUBBER MOUNT PIPING FOR OIL PRESSURE SENSOR PLACED REFER TO DWG. NO. 37596-90142.

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

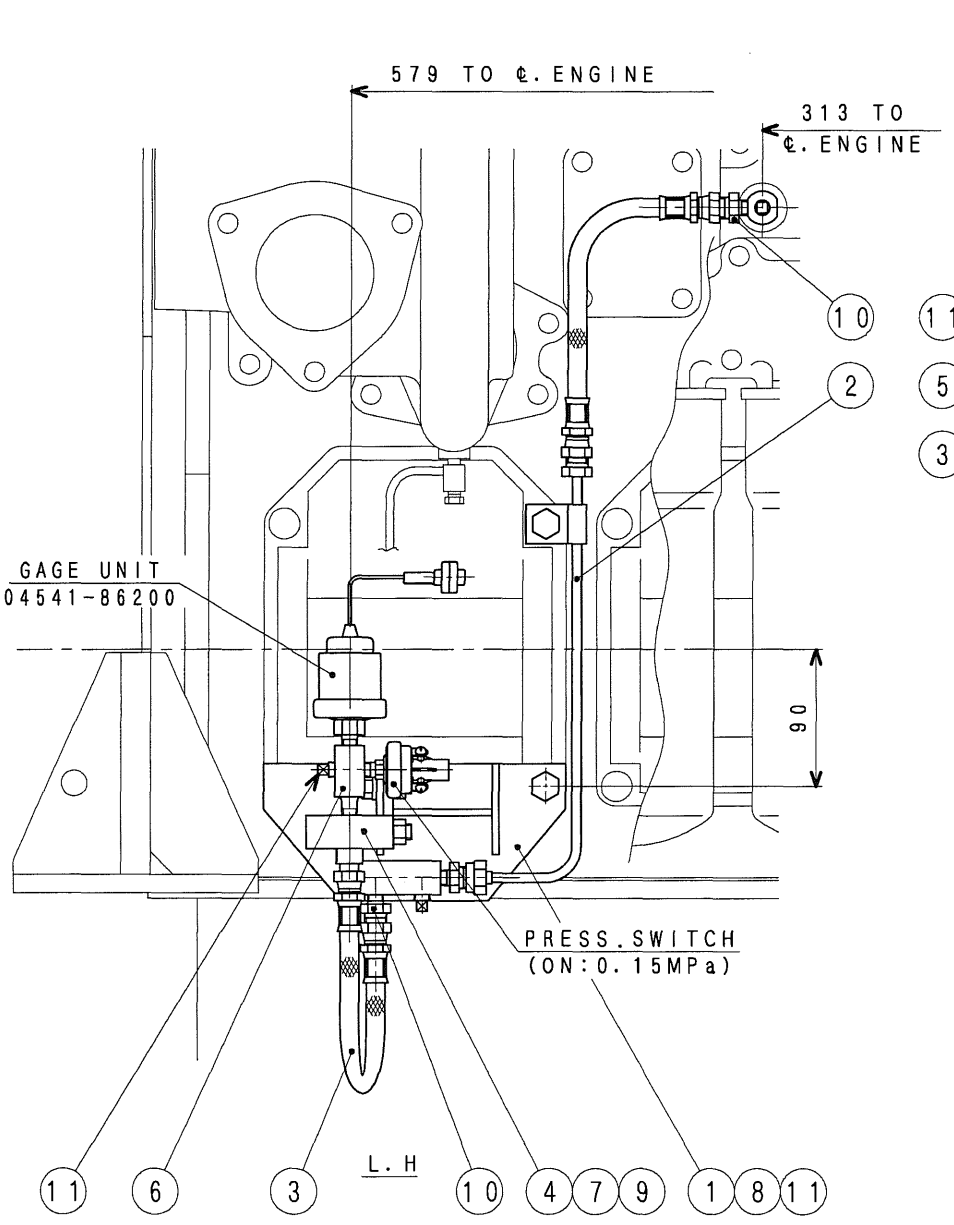
認可 APPD	検図 CHK	製図 DRN	
梅口	T. HASEGAWA K. SAKAMOTO	N. YAMAGUCHI	2016. 3. 25

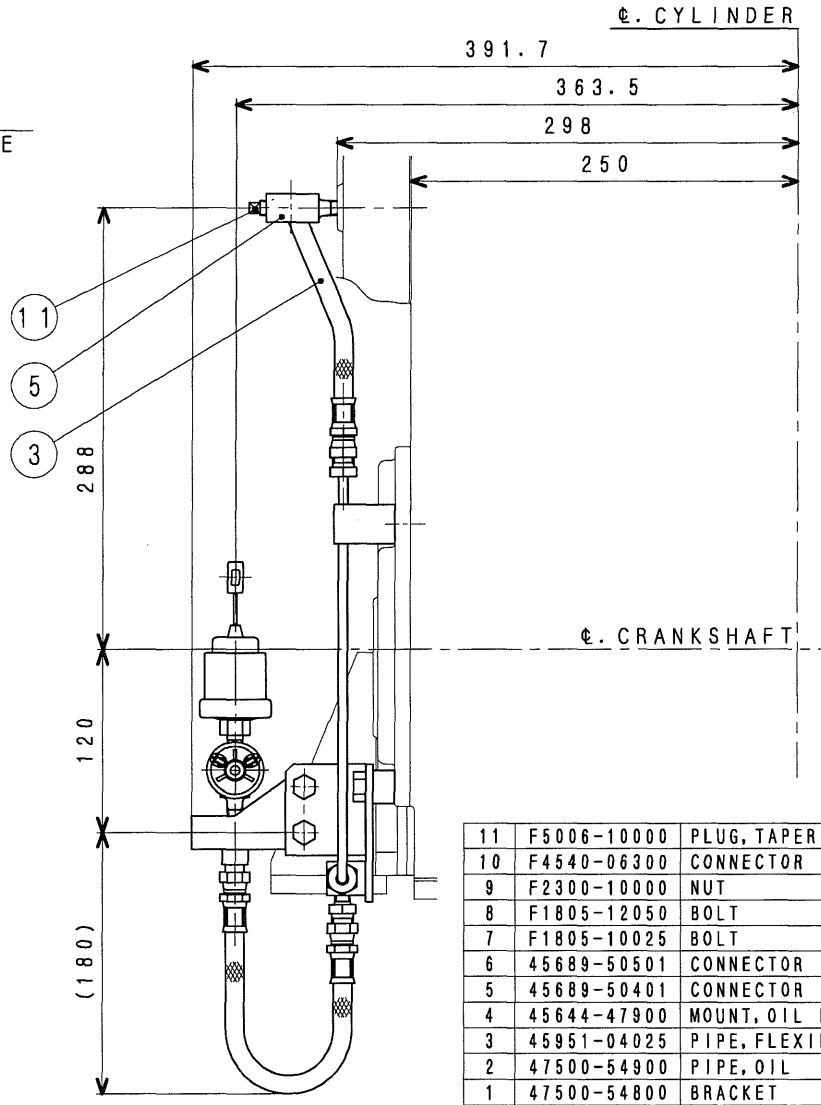
S6R, S6R2
METER & SENSOR

三菱重工業株式会社
MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 38C96-90152 △

③新 図 4 旧引図	サイズ A 3	①組立図	2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)





No.	PARTS NO.	PARTS NAME	Q'TY
11	F5006-10000	PLUG, TAPER	4
10	F4540-06300	CONNECTOR	3
9	F2300-10000	NUT	2
8	F1805-12050	BOLT	2
7	F1805-10025	BOLT	2
6	45689-50501	CONNECTOR	1
5	45689-50401	CONNECTOR	1
4	45644-47900	MOUNT, OIL PRESS.	1
3	45951-04025	PIPE, FLEXIBLE	2
2	47500-54900	PIPE, OIL	1
1	47500-54800	BRACKET	1

旧引
汎特
2011
12.23

M/C

MHI CONFIDENTIAL

注記 (1)本図は、油圧センサー及びスイッチ(一段)のラバーマウント装着標準図である。

CHG	EO-NO	DATE	CHK
3	4590-G839	'11.12.15	浅沼
2	4590-E742	'08.8.29	斎藤
1	4590-C283	'06.7.11	斉藤

3rd ANGLE PROJECTION
尺度 SCALE :

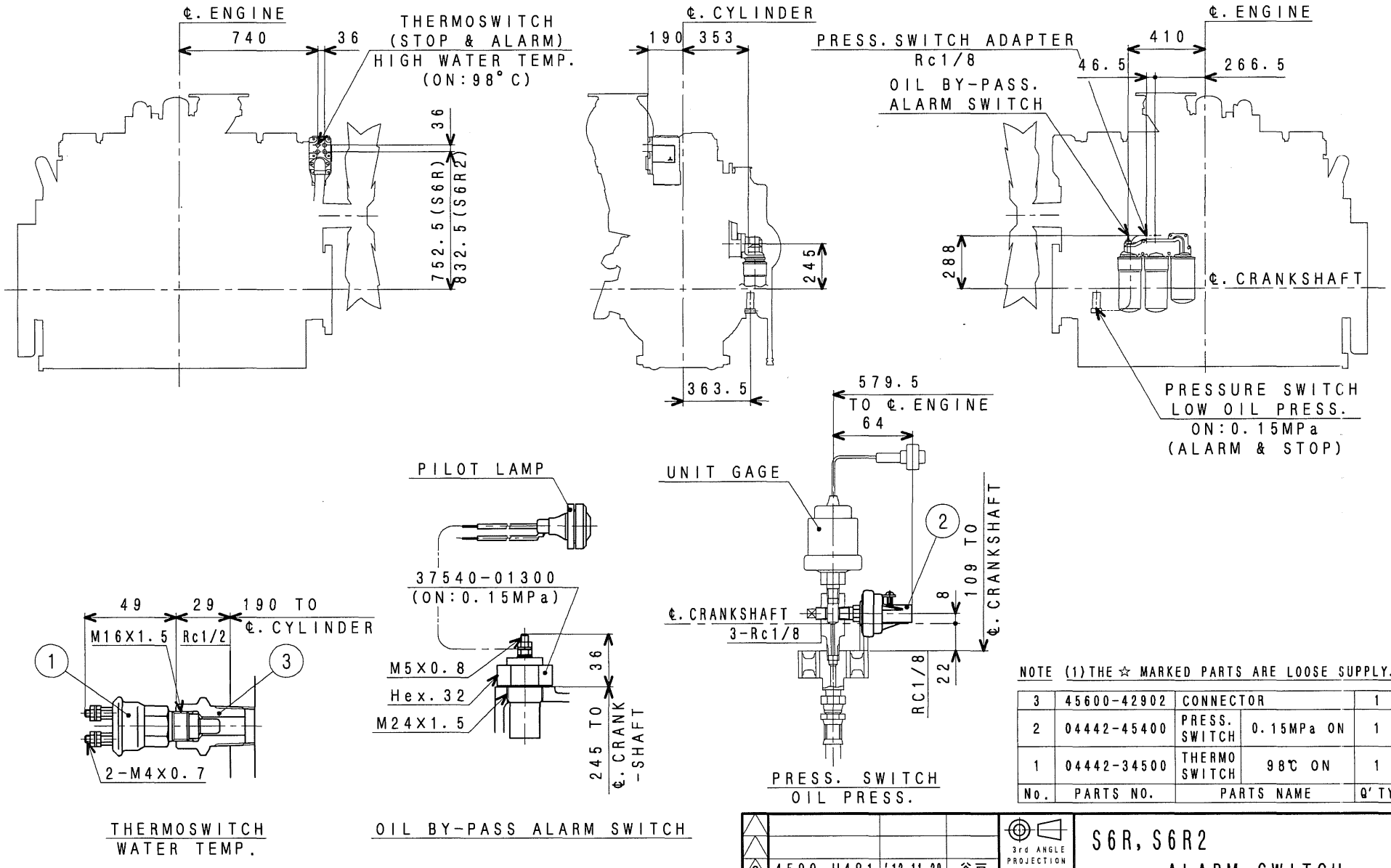
認可 APPD	検図 CHK	製図 DRN
橋口	塚本 中村	谷斉 戸藤
		2002.12.11

S6R, S6R2
METER & SENSOR

三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 DRAWING No. 37596-90142 ③

③新図 ④旧引図	サイズ A3	①組立図	2 鋳鍛造単品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)



NOTE (1)THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

No.	PARTS NO.	PARTS NAME		Q'TY
3	45600-42902	CONNECTOR		1
2	04442-45400	PRESS. SWITCH	0.15MPa ON	1
1	04442-34500	THERMO SWITCH	98℃ ON	1

旧引
汎特
2013
2.8

M/C

MHI CONFIDENTIAL

注記 (1)本図の油圧スイッチ(一段)装着用ラバーマウントパイピング一式は、
図番37596-90142を参照のこと。

CHG	EO-NO	DATE	CHK
2	4590-H481	'12.11.29	谷戸
1	4591-0412	'03.11.18	福田

3rd ANGLE PROJECTION
尺度 SCALE :

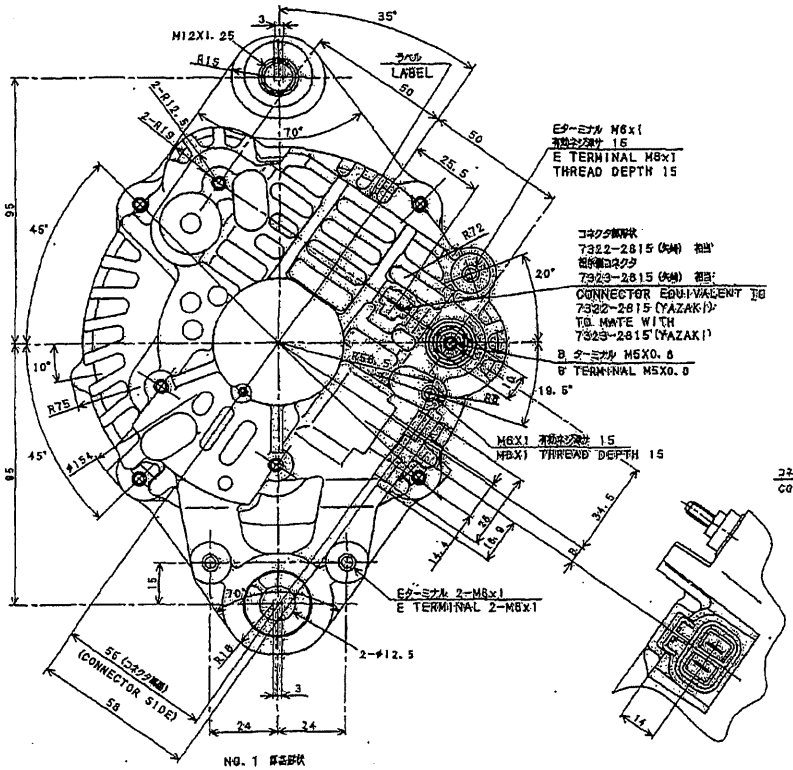
認可 APPD	検図 CHK	製図 DRN
橋口	松福 下田	谷斉 戸藤
		2002.12.11

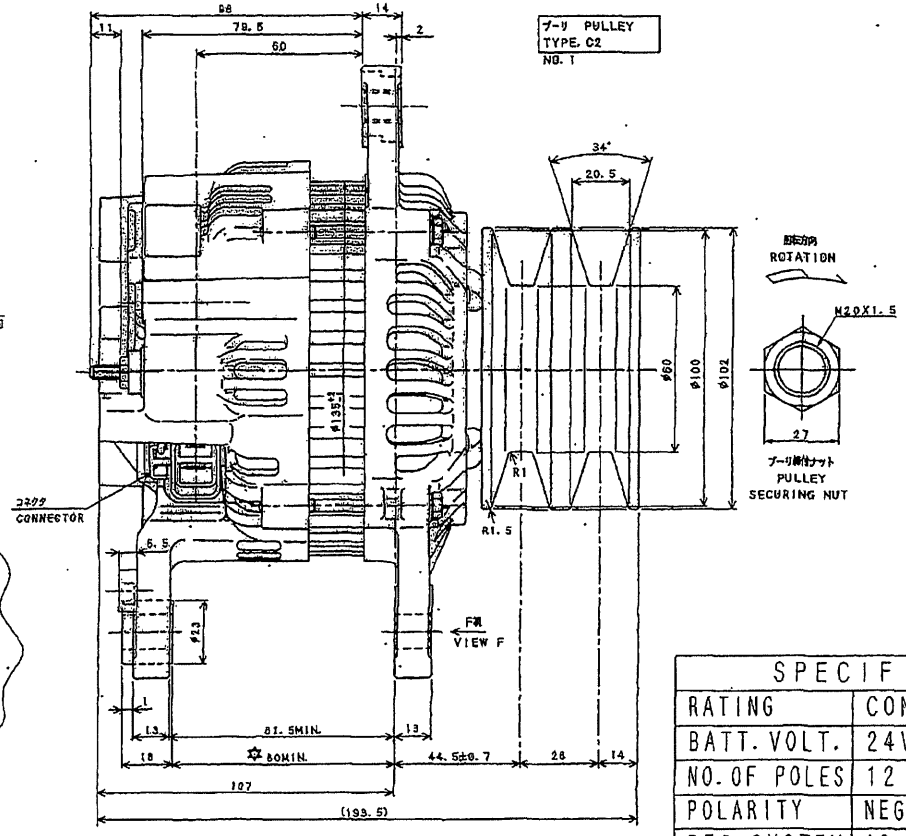
S6R, S6R2
ALARM SWITCH
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES,LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.
図面番号 DRAWING No. 37596-90240 ⚠2

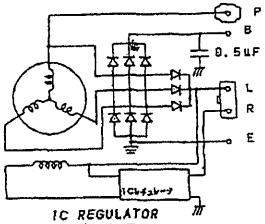
3 新図 ④旧引図 | サイズ A3 | ①組立図 | 2 鋳鍛造部品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)

CHECKED BY

K. YATO







SPECIFICATION	
RATING	CONTINUOUS
BATT. VOLT.	24V
NO. OF POLES	12
POLARITY	NEGATIVE GROUNG
REG. SYSTEM	IC-REG. BUILT-IN
REG. SET VOLT.	28.5±0.5V(AT 5000r/min WITHLESS THAN 5A BATT LOADMEASURED ON L-E)

MHI CONFIDENTIAL

REV.	DATE

ALTERNATOR, W/O EXCIT

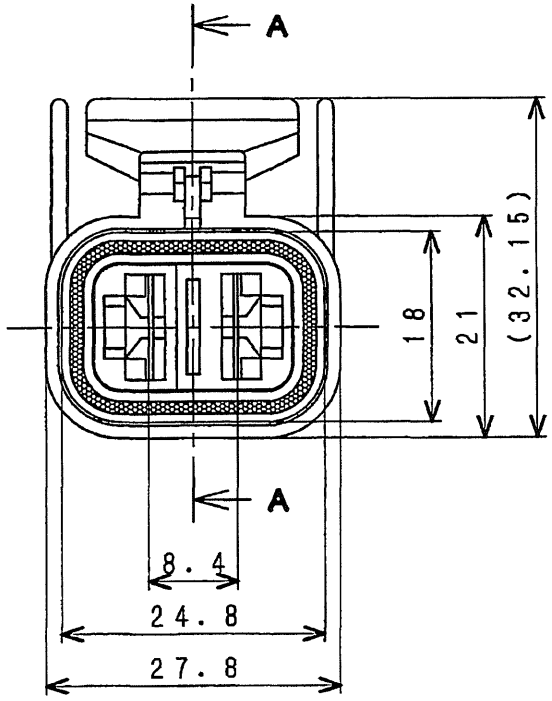
PART NO. 04343-38000

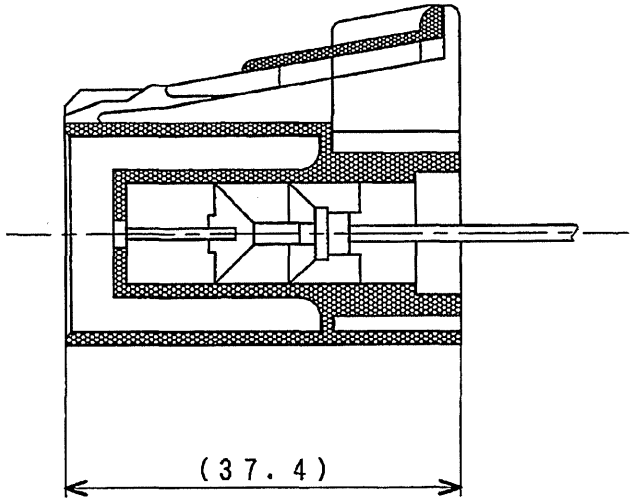
DWG. NO. S10-0540

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
K. YATO





SECTION A-A

THIS IS YAZAKI PART 7323-6228-30.

MHI CONFIDENTIAL

REV.	DATE

CONNECTOR

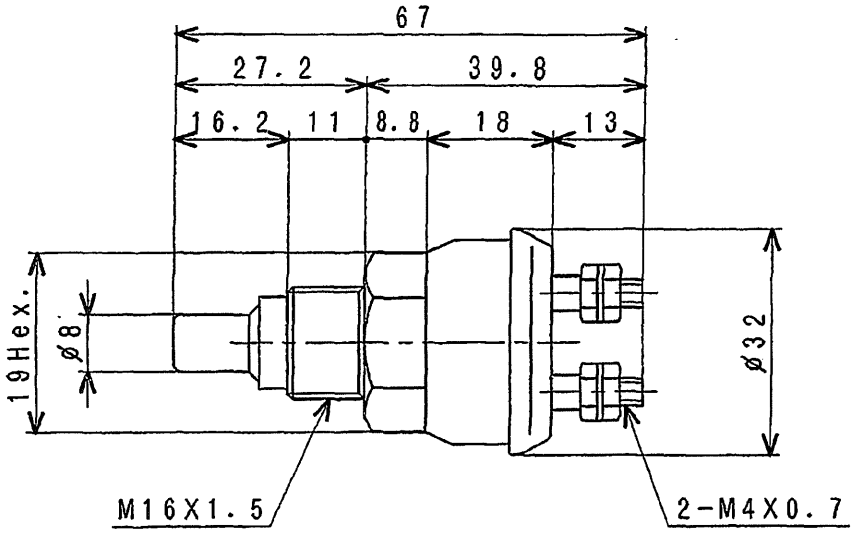
PART NO. 32B90-00300

DWG. NO. S10-0550

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
NAKAMURA



CONNECTING TYPE	PARTS NO.	SET TEMP. (℃)		CONTACTOR CAPACITY	WEIGHT
		ON	OFF		
NO(A-CONTACT)	04442-34300	92±2	85±2	DC24V 0.05A~3A DC100V 0.05A~0.4A AC100V 0.05A~1A	60g
NO(A-CONTACT)	04442-34400	95±2	88±2		
NO(A-CONTACT)	04442-34500	98±2	91±2		
NO(A-CONTACT)	04442-34600	110±2	103±2		
NO(A-CONTACT)	04442-34700	105±2	98±2		
NO(A-CONTACT)	04442-34800	101±2	94±2		
NO(A-CONTACT)	04442-34900	88±2	81±2		
NO(A-CONTACT)	04442-38700	115±2	108±2		
NO(A-CONTACT)	37547-04100	101^{9}_{-2}	94±2		

MHI CONFIDENTIAL

REV.	DATE
6	'00.4.26
8	'08.6.5
7	'06.3.17

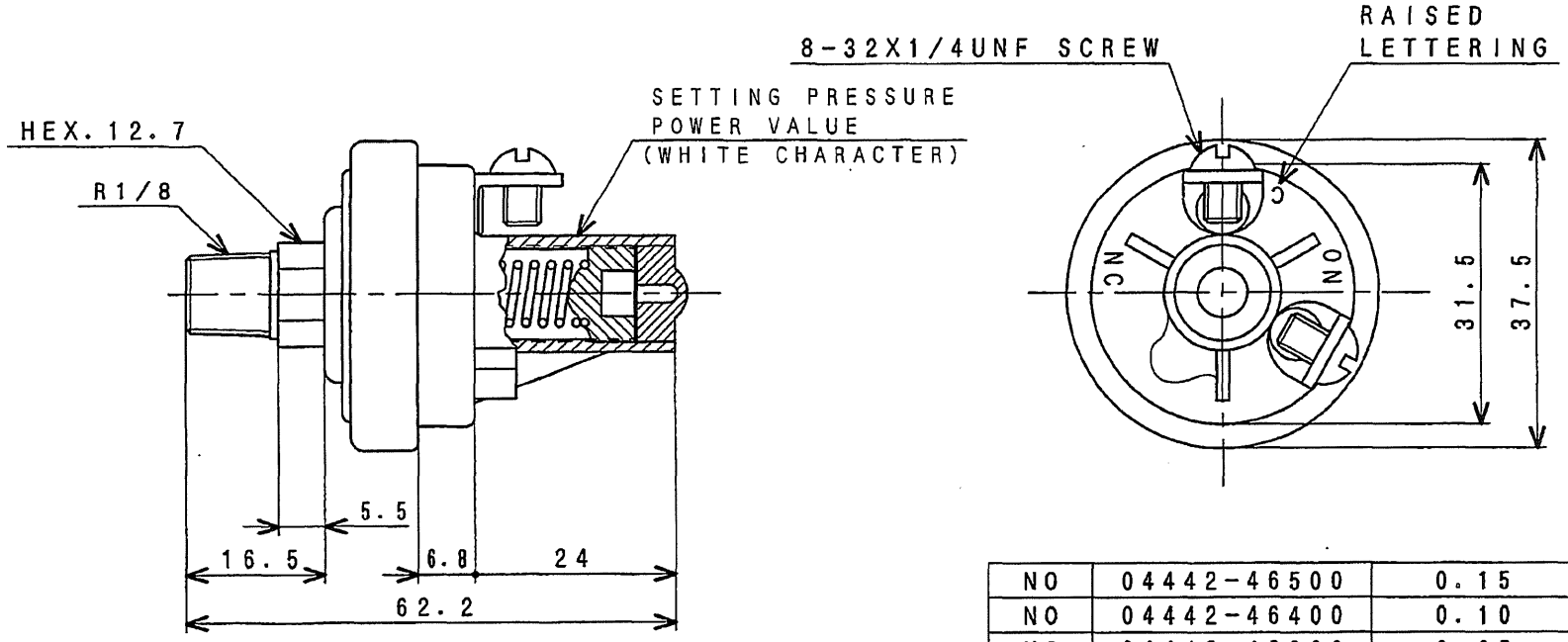
THERMO SWITCH

DWG. NO. S11-0551

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
K. YATO



NO	04442-46500	0.15	±0.0075
NO	04442-46400	0.10	±0.005
NO	04442-46300	0.05	±0.0025
NC	04442-46100	6.2KPa	±0.31KPa
NC	04442-45900	0.40	±0.02
NC	04442-45800	0.35	±0.0175
NC	04442-45700	0.30	±0.015
NC	04442-45600	0.25	±0.0125
NC	04442-45500	0.22	±0.011
NC	04442-45400	0.15	±0.0075
NC	04442-45300	0.10	±0.005
NC	04442-45200	0.05	±0.0025
NC	04442-45100	0.03	±0.0015
接点形式	PARTS NO.	ON SET PRESS.MPa	ALLOWANCE

5. ON-OFF DIFFERECE : WITHIN 5%
4. POINT OF CONTACT : (NO) (NC)
3. USE TEMP. : -40.0℃~+120.0℃
2. RARING : 12VDC-8AMP, 24VDC-4AMP,
120VAC-1AMP, 240VAC-0.5AMP

仕 様 1. MAXIMUM PERMISSIBLE WORKING PRESSURE
: 1.05MPa (SETTING PRESS. : 0.007~0.17MPa)
: 1.75MPa (SETTING PRESS. : 0.18~1.05MPa)

MHI CONFIDENTIAL

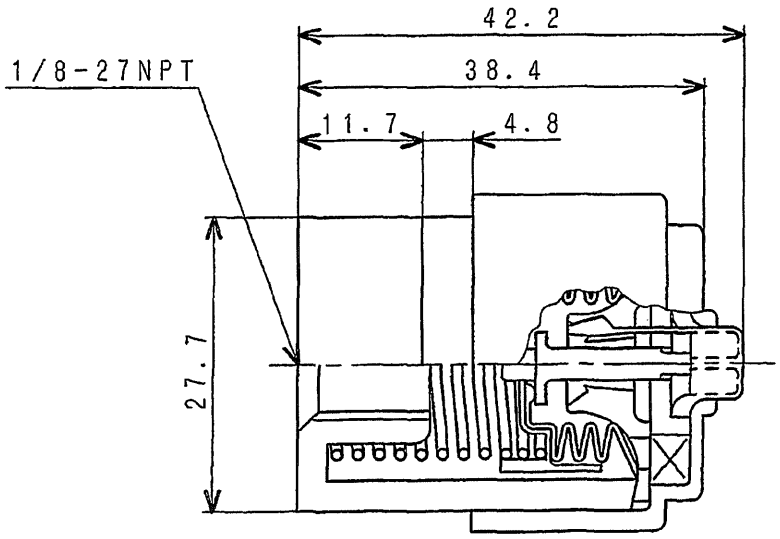
REV.	DATE
3	'11.10.28
2	'08.6.5
1	'06.3.17

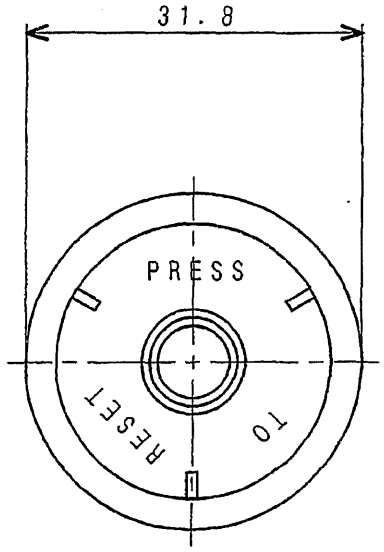
SWITCH, PRESS

DWG. NO. S11-0796

MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA





PARTS NO.	RESTRICTION (mmH_2O)
47220-30701	762±58
47220-34301	508±48
47220-34401	635±58

MHI CONFIDENTIAL

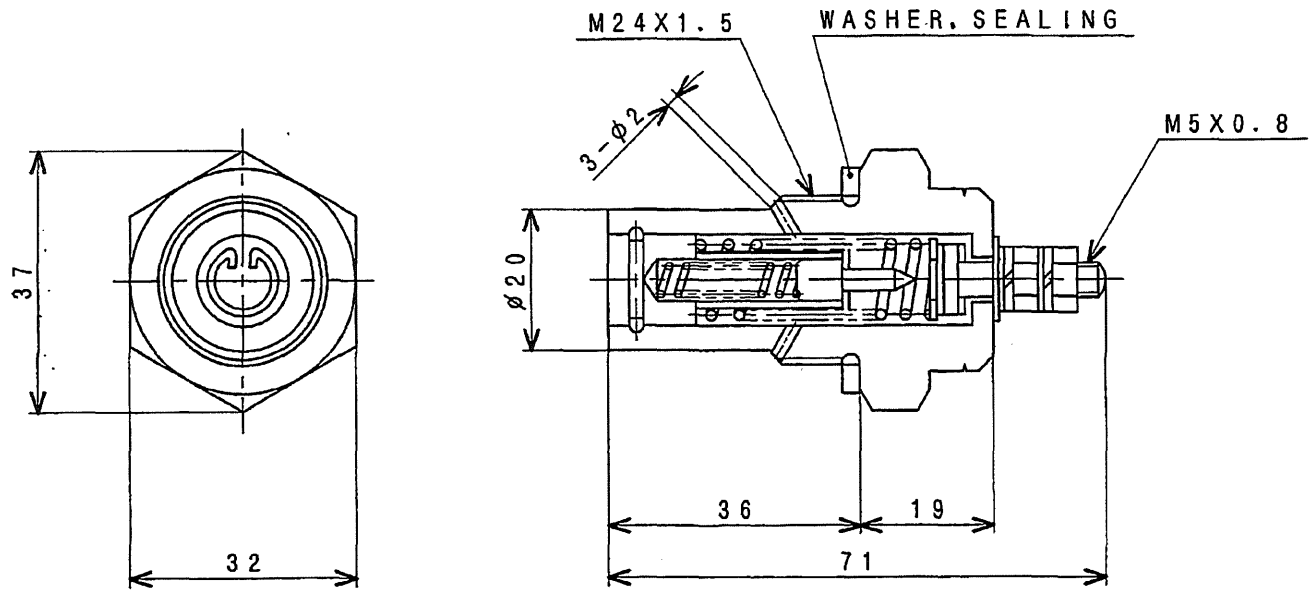
REV.	DATE
1	'93 2/18

INDICATOR

DWG. NO. S11-0920

MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
中村



注記　（1）本図は、部番37540-01300に対し表面処理を変更したもの。
3価クロメート処理　←　6価クロメート処理

SET PRESS. 0.15MPa

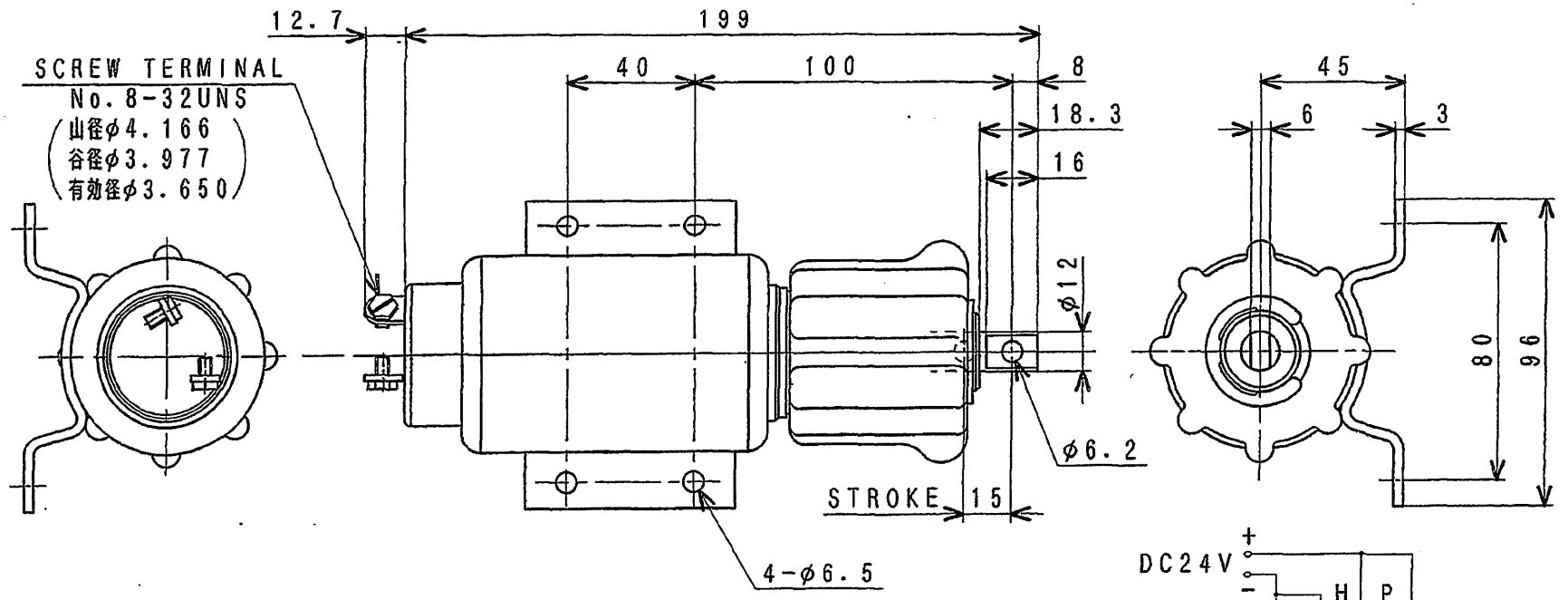
MHI CONFIDENTIAL

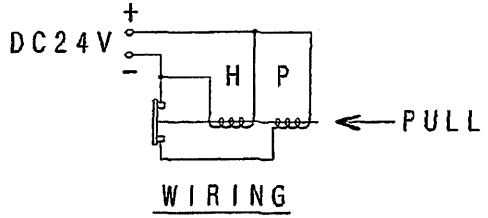
REV.	DATE

ALARM, OIL FILTER
PART NO. 37540-01301

DWG. NO. S11-1371
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA





WIRING

注記 本部品は04400-08800及び04400-08900に対し下記が異なる。

1. 保持コイルリードワイヤー取出部に太いサイズの皮膜付リードワイヤーを溶接接続したものである。
2. 吸引、保持コイル切換えスイッチの固定コンタクトの曲げを平に変更したものである。

PARTS NO.	RETURN SPRING PRESS.
04400-08801	1.0 MPa
04400-08901	0.2 MPa

SPECIFICATION	
VOLTAGE	DC24V
CURRENT	PULL 30.7A, HOLD 0.58A
RATED TIME	CONTINUOUS

MHI CONFIDENTIAL

REV.	DATE

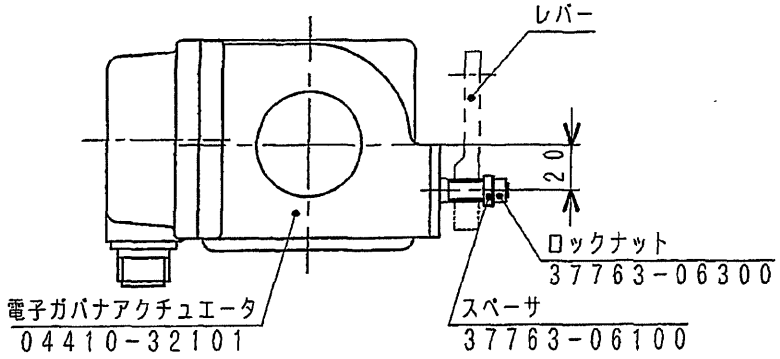
SOLENOID

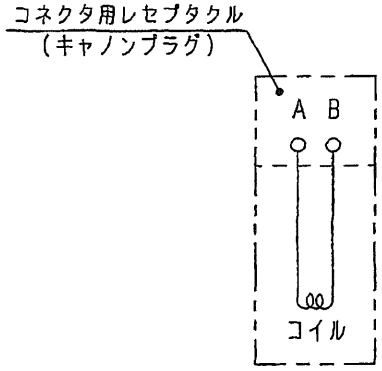
DWG. NO. S13-0282

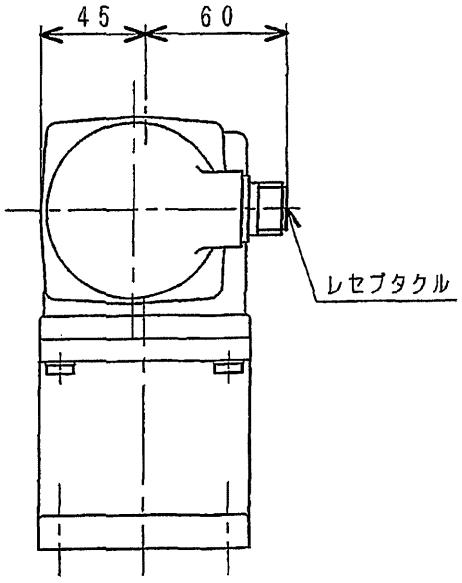
MITSUBISHI HEAVY INDUSTRIES, LTD.

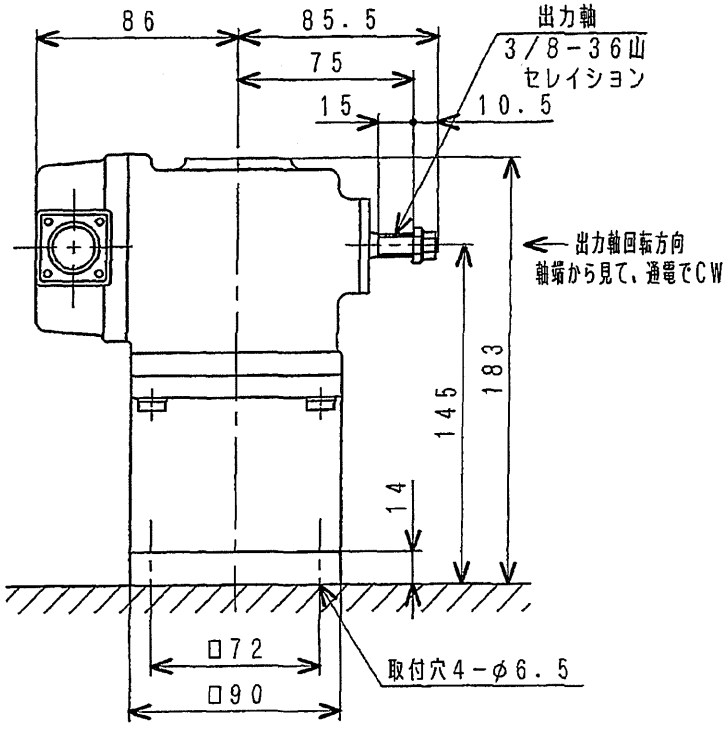
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA









仕 様

回転角度	：MAX40°
トルク	：0.17kgf・m 起動時
	起動時常温8Aにて
電 源	：DC24V パルス
起動最低電圧	：DC16V 50%ed以下
電 流	：MAX13A
常用電流	：軽負荷制御時0.5A～2A
周囲温度	：-30℃～100℃
耐 震	：25G JIS D 1601
重 量	：4.7kgf

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(2)本部品は、部番04410-32010に対し出力軸の材料を変更したものである。

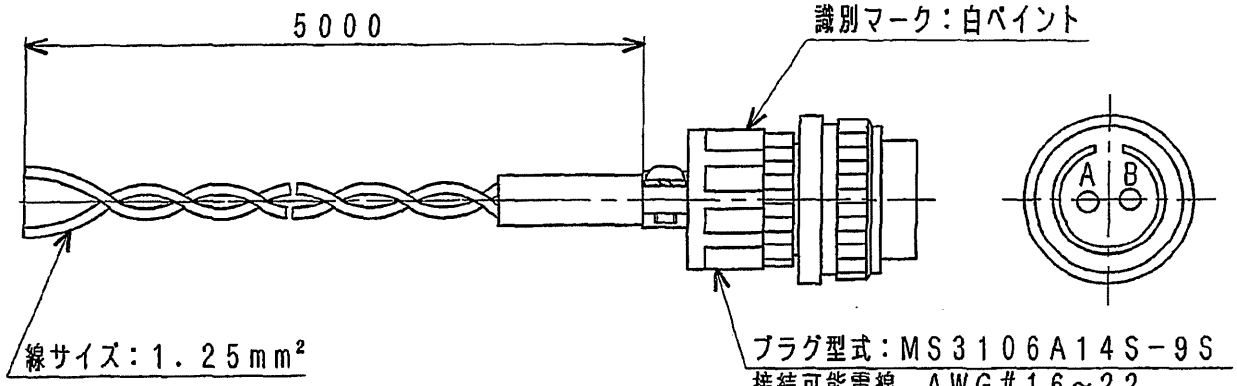
注記 (1)本部品は、2線式アクチュエータである。

REV.	DATE

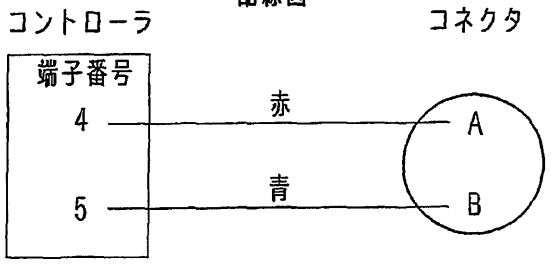
ACTUATOR/SG4017BR
PART NO. 04410-32011

DWG. NO. S13-1761
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA



配線図



備考　使用先：コントローラ～アクチュエータ間の配線用部品として
使用するツイストペアケーブルである。

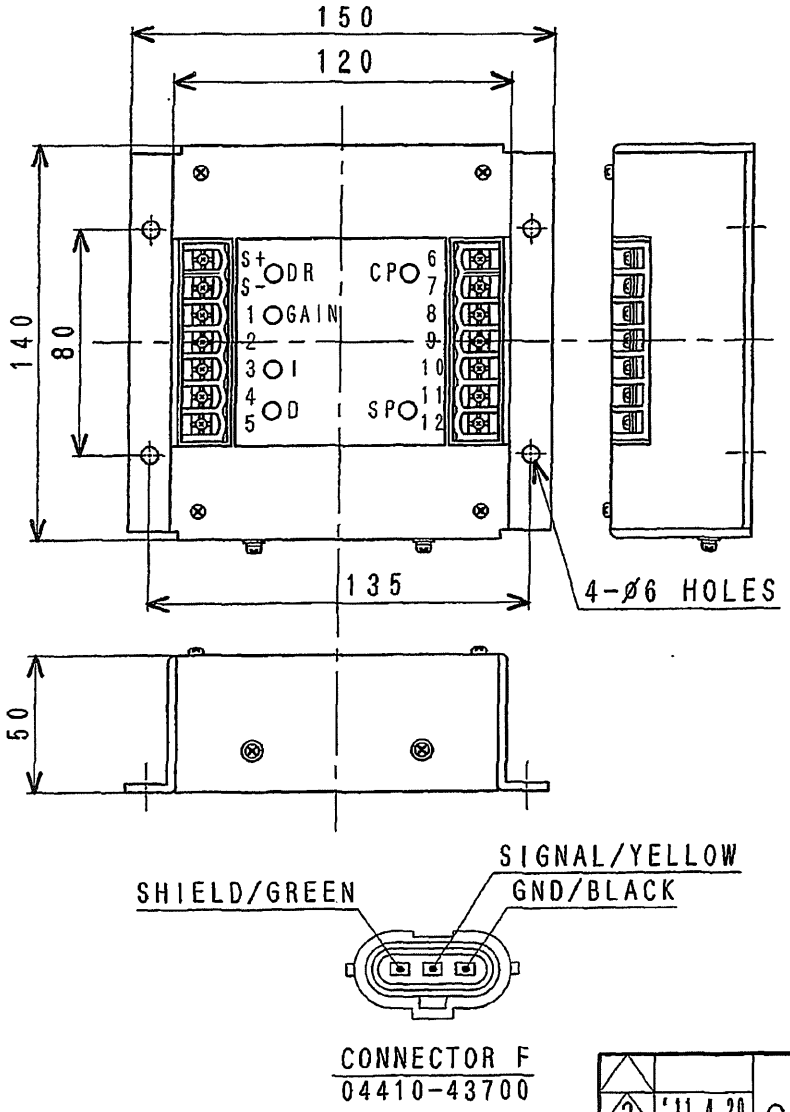
MHI CONFIDENTIAL

REV.	DATE

CONNECTOR
PART NO. 04410-32902

DWG. NO. S13-1022
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

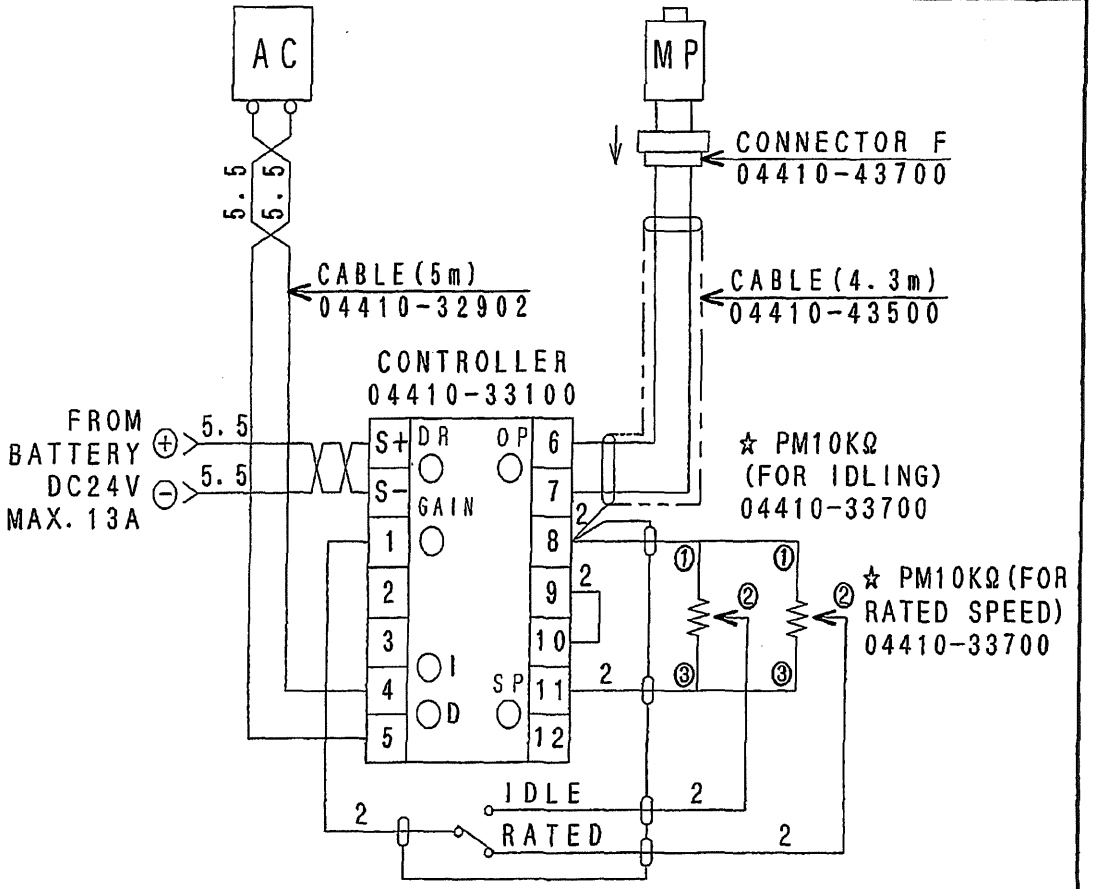
CHECKED BY
Y. FUKUDA



CONNECTOR F
04410-43700

ACTUATOR
04410-32011
04410-37081 (S12H)

MAGNETIC PICKUP
04410-43410



☆ MODE CHANGEOVER CONTACTOR
(SHALL BE USE GOLD PLATING CONTACTOR)

WIRING

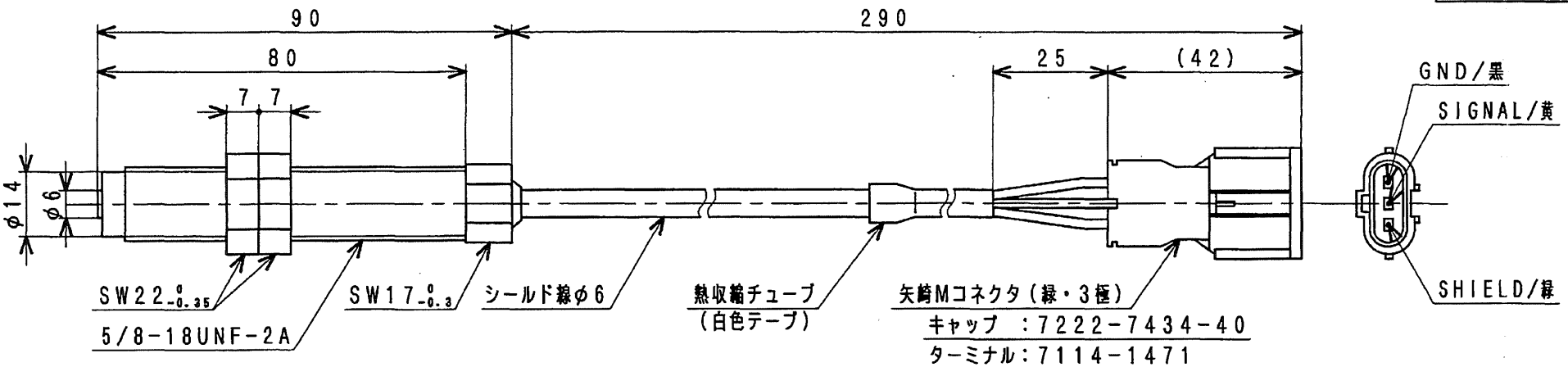
MHI CONFIDENTIAL

REV.	DATE
2	'11.4.20
1	'01.6.29

CONTROLLER SPEED
PART NO. 04410-33100

DWG. NO. S13-1042
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA



仕 様

1．電機的特性

出力電圧 ：図1．測定条件にて4．0Vp－p以上（at700Hz）
7．0Vp－p以上（at6700Hz）

直流抵抗 ：1．3kΩ～1．6kΩ（at＋25℃）

絶縁抵抗 ：1MΩ以上 atDC500V （コネクタ端子－ハウジング間）

耐電圧 ：50／60Hz AC500V 1分間（コネクタ端子－ハウジング間）

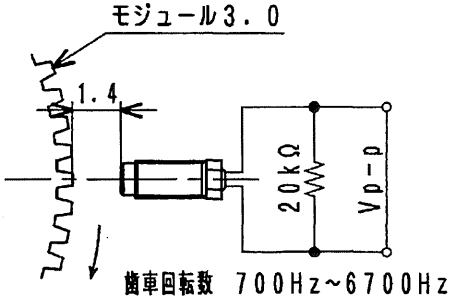
2．機械的特性

コネクタ引き抜け力：5N以上

締付け破壊トルク ：5J以上

3．使用温度範囲

－40℃～＋120℃



歯車回転数 700Hz～6700Hz

図1．出力条件

注 記

1．本部品は日本エアパックス（株）殿製である。

2．本部品は04410－43400に対し、コイル保護ラバー（シリコン）を厚塗り品としたものである。
また、識別用として熱収縮チューブに白色テープを追加し、Mコネクタの色を緑←灰にしたものである。

MHI CONFIDENTIAL

REV.	DATE

PICKUP, MAGNETIC

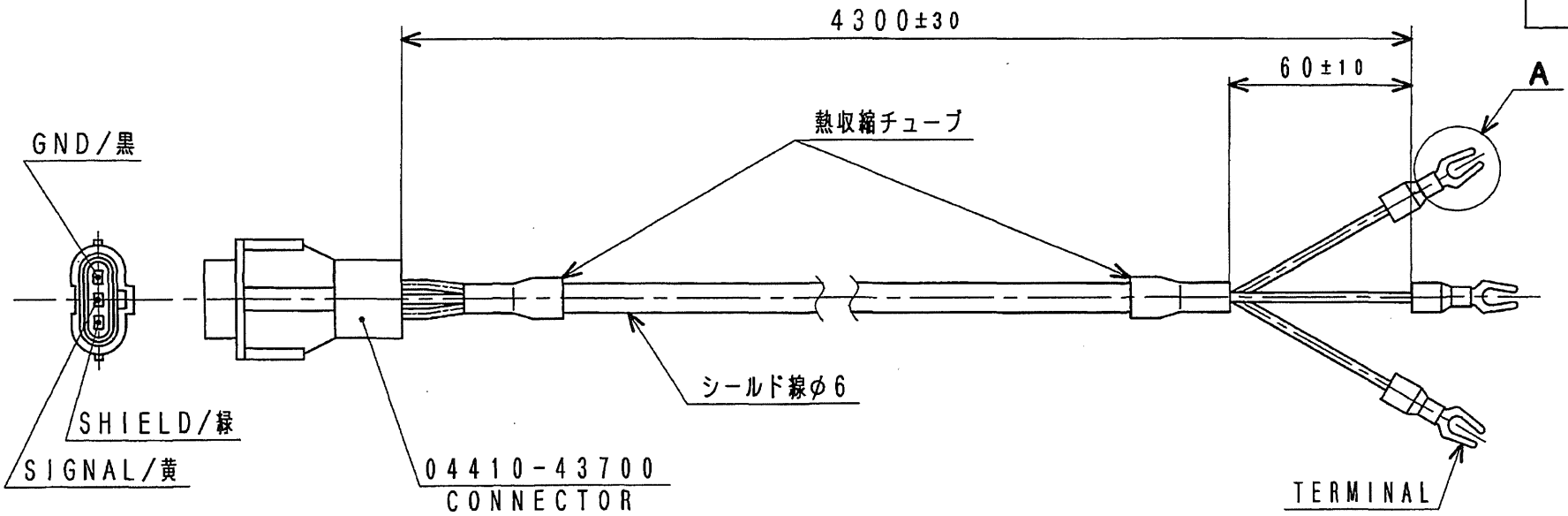
PART NO. 04410-43410

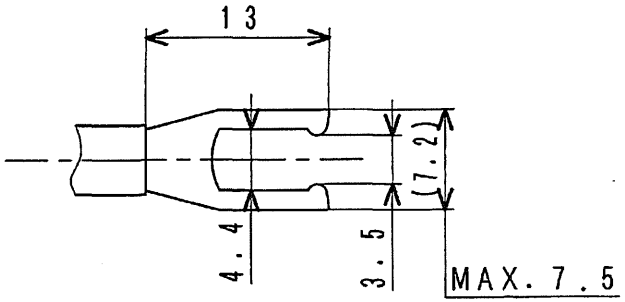
DWG. NO. S13-2011

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY





DETAIL A

注記 (1) リード線は，シールド線（φ6）を使用。

(2) 配線色は，黒X1，黄X1（各々メスピンに接続），緑X1（シールドに接続）である。

(3) ターミナル形状は、A図と同等（M3ネジ用）である。

MHI CONFIDENTIAL

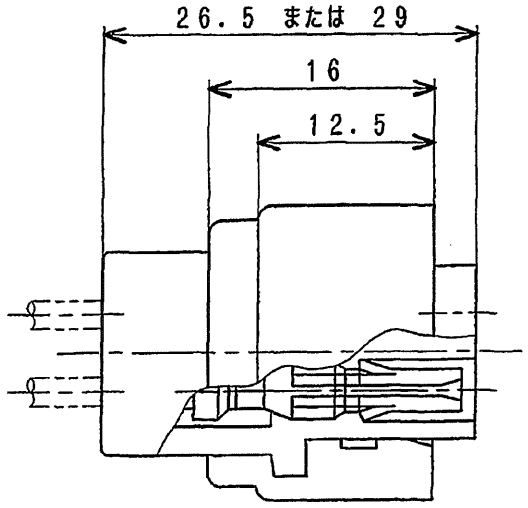
REV.	DATE

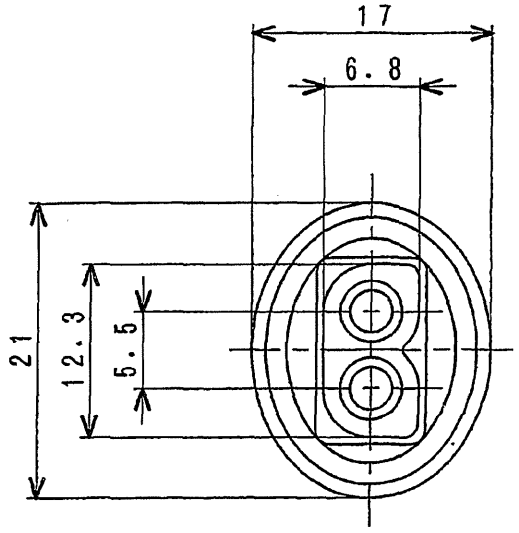
CABLE, PICKUP
PART NO. 04410-43500

DWG. NO. S13-2020

MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA





MHI CONFIDENTIAL

REV.	DATE
2	'04.3.12
1	'93.8. 4

CONNECTOR

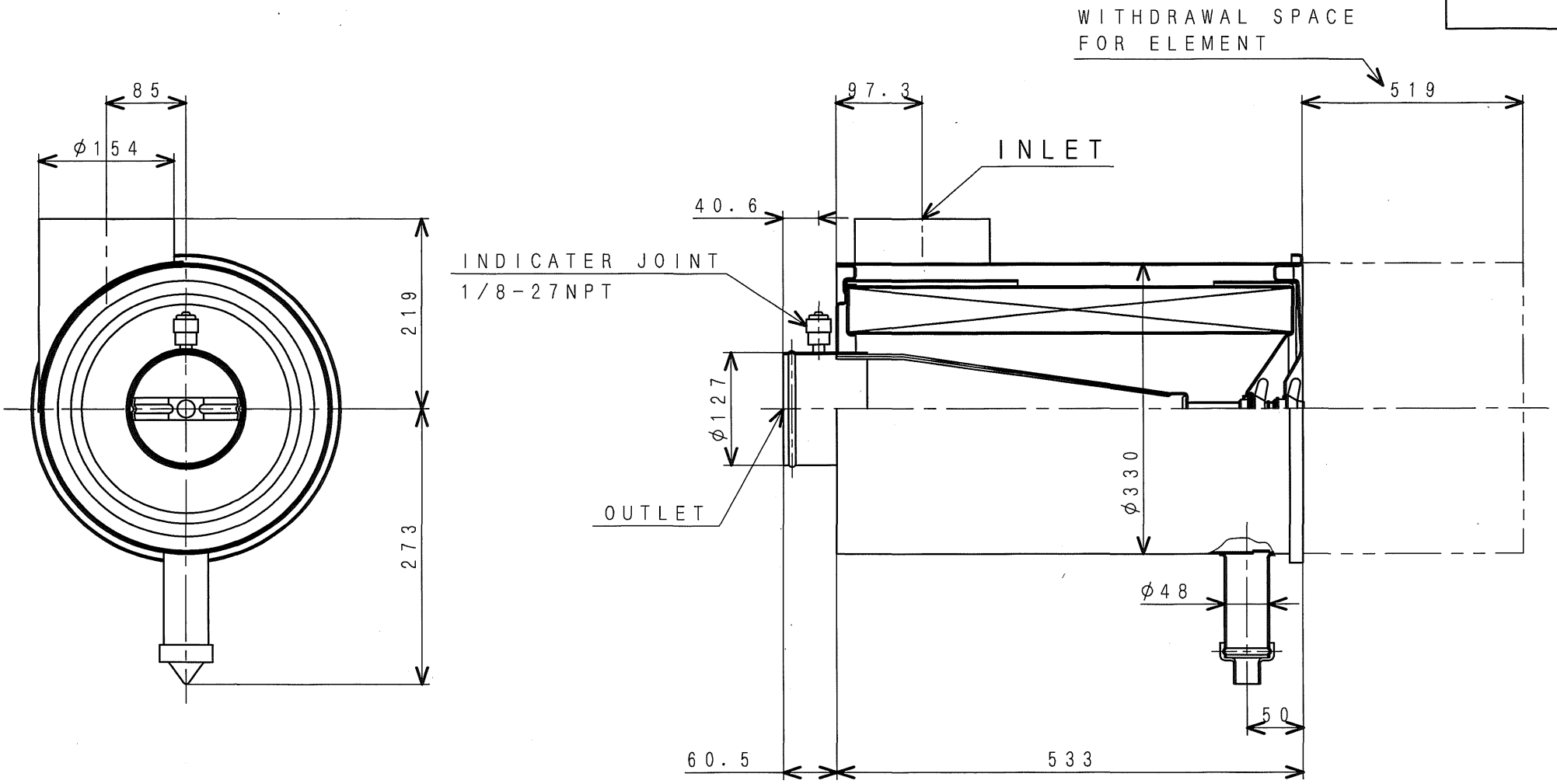
PART NO. MH052231

DWG. NO. S14-0330

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY



MHI CONFIDENTIAL

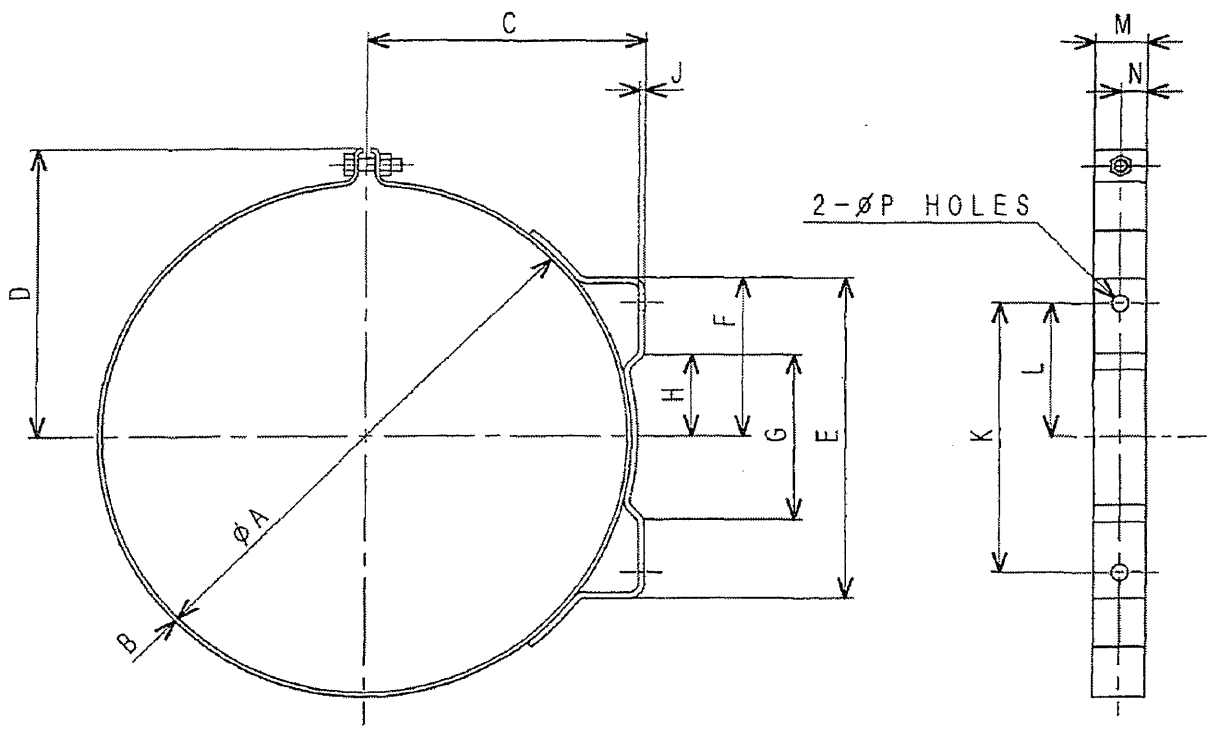
REV.	DATE

AIR CLEANER ASSY.
PART NO. 38G30-09201
AH-330018

DWG. NO. S35-5030

MITSUBISHI HEAVY INDUSTRIES, LTD.

CHECKED BY



PARTS NO.	TYPE / MEASURE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	REMARKS
38G30-08301	15″(ϕ387.0)	387	2.0	201	230	241.4	120.7			5	203.2	101.6	40	20	2-ϕ12	
38G30-08301	13″(ϕ330.2)	330.2	2.0	185.2	200	185	162.5	53.8	26.9	5	152	76	38	19	2-ϕ10.3	

MHI CONFIDENTIAL

REV.	DATE

BAND

DWG. NO. S35-5110

MITSUBISHI HEAVY INDUSTRIES, LTD.

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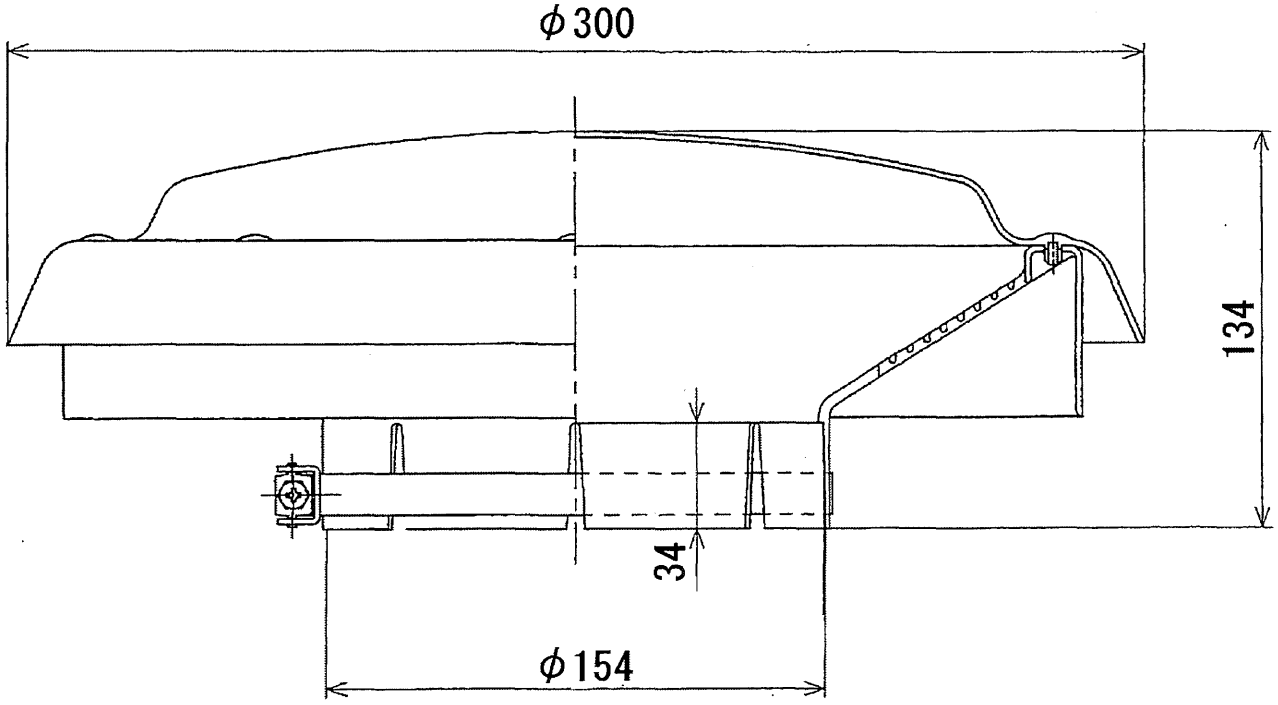


MHI CONFIDENTIAL

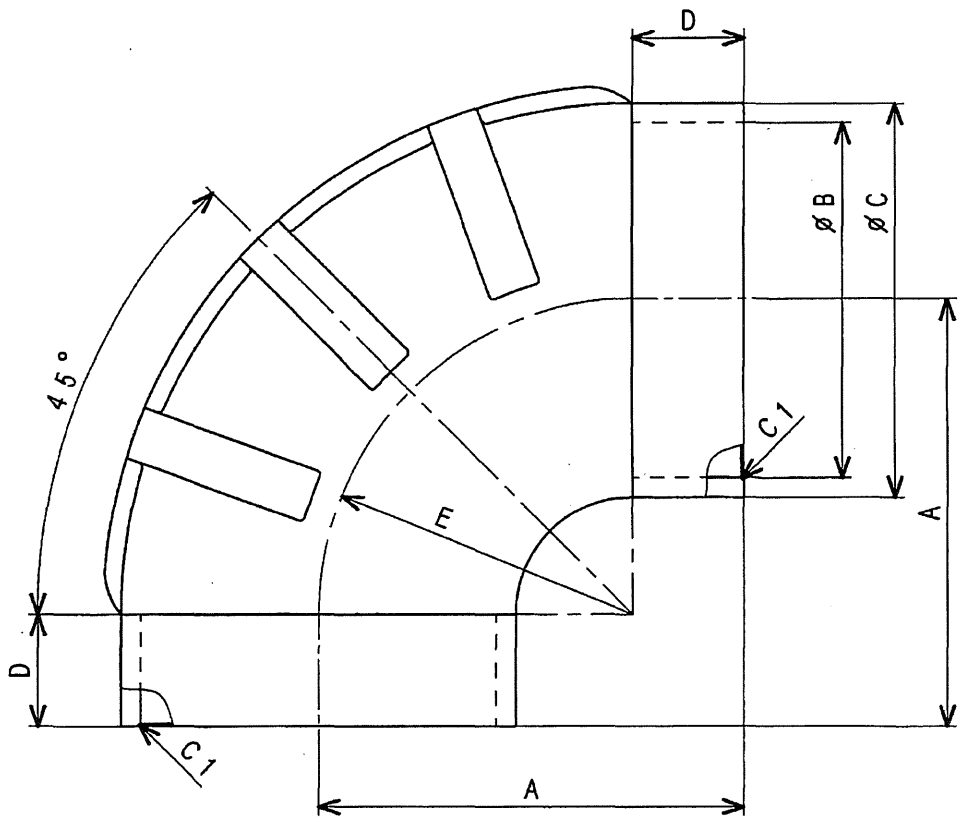
REV.	DATE

CAP ASSY.

DWG. NO. S35- 5220

MITSUBISHI HEAVY INDUSTRIES, LTD.

CHECKED BY
T. HASHIGUCHI



PARTS NO.	TYPE / MEASURE	A	B	C	D	E
47220-47600	ø160	145	160	176	40	100
47220-32600	7" (ø177.8)	184.2	177.8	194.6	50.8	133.4
47220-30400	6" (ø152.4)	177.8	152.4	166.4	50.8	127
47220-12100	5" (ø127.0)	152.4	127	141	40	112.4

MHI CONFIDENTIAL

REV.	DATE

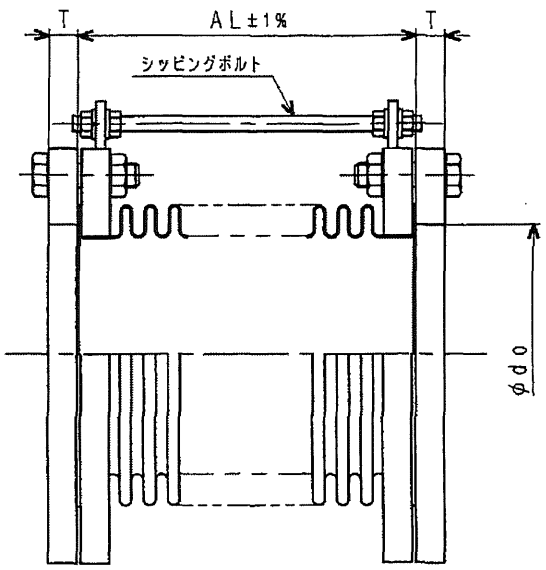
HOSE, RUBBER

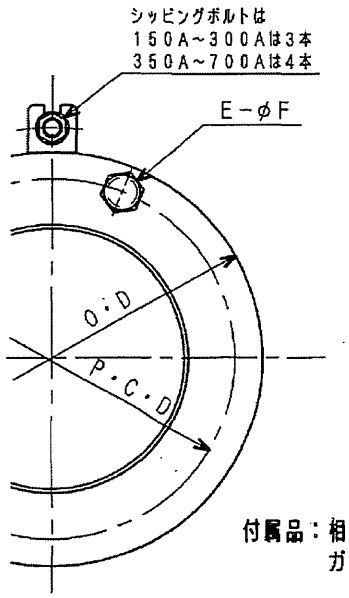
DWG. NO. S35-0701

MITSUBISHI HEAVY INDUSTRIES, LTD.

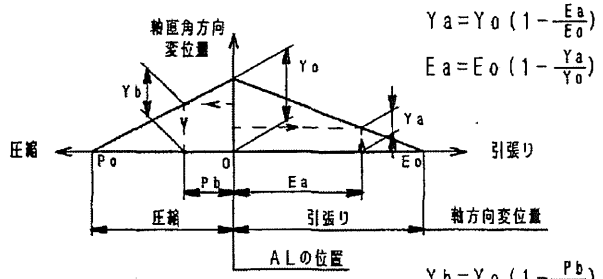
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
田佐 澤藤





注1．許容変位量は、AL寸法を起点としての最大圧縮、引張り、及び軸直角変位量を示す。
2．各方向の変位が同時に作用する場合の許容変位量は、下図の合成変位量となる。
3．配管後ショッピングボルト、ナットは取り外すこと。



$$Ya = Yo\left(1 - \frac{Ea}{Eo}\right)$$
$$Ea = Eo\left(1 - \frac{Ya}{Yo}\right)$$
$$Yb = Yo\left(1 - \frac{Pb}{Po}\right)$$
$$Pb = Po\left(1 - \frac{Yb}{Yo}\right)$$

付属品：相フランジ、ボルト、ナット
ガスケット（ノンアスベスト）

Same with ➡
38C32-06700

部品番号	サイズ (A)	サイズ (B)	主要寸法 φdo	T	O.D	P.C.D	E-φF	AL	許容変位量(mm) Po	Eo	Yo	バネ定数(N/mm) 軸方向	軸直角方向	質量 (kg)
47920-00600	150	6	166.6	18	265	230	8-19	210	30	20	14	58	98	32
〃 -00700	200	8	218.0	20	320	280	8-23	230	35	20	14	67	147	38
〃 -00800	250	10	269.5	22	385	345	12-23	280	45	20	15	70	157	56
〃 -00900	300	12	321.0	22	430	390	12-23	335	55	20	18	64	118	62
〃 -01100	350	14	358.1	24	480	435	12-25	335	60	25	18	73	313	80
〃 -01200	400	16	409	24	540	495	16-25	335	60	25	16	84	470	95
〃 -01300	450	18	460	24	605	555	16-25	335	60	25	14	92	647	127
〃 -01400	500	20	511	26	655	605	20-25	335	60	45	13	101	853	139
〃 -01500	550	22	562	26	720	655	20-27	335	60	45	14	81	843	174
〃 -01600	600	24	613	26	770	715	20-27	335	60	45	13	89	1080	190
〃 -01700	650	26	664	26	825	770	24-27	430	80	45	18	68	637	216
47920-01800	700	28	715	26	875	820	24-27	430	80	45	17	73	794	228

仕様	
設計圧力	0.049MPa
設計温度	MAX600℃
用途	排気ガス

材質	
ボルト・ナット	SS400
フランジ他	SS400
ベローズ	SUS304

REV.	DATE
2	08.03.6
1	03.04.17

排気可とう管
（ガスケットレス形）

DWG. NO. S37-1080

MITSUBISHI HEAVY INDUSTRIES, LTD.

MHI CONFIDENTIAL

MITSUBISHI DIESEL ENGINE TECHNICAL INFORMATION	ITEM NO.	T0231-0001E (1/4)
	DATE	April, 2016

Specification Sheets of S6R2-PTA Engine

Specification Sheets of S6R2-PTA Engine are enclosed herein.

Revision				
	First Edition : September, 2007 (T13-0308-E Jun.99)	Engine Engineering Department High Speed Engine Designing Section		
		Approved by	Checked by	Drawn by
		T.HASHIGUCHI	T.HASEGAWA K.SAKAMOTO	N.Y

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL ENGINE DATA

Type	4-Cycle, Water Cooled	
Aspiration	Turbo-Charged, After Cooler (Jacket water to Cooler)	
Cylinder Arragement	Inline	
No.of Cylinders	6	
Bore mm(in.)	170	(6.69)
Stroke mm(in.)	220	(8.66)
Displacement liter(in^3)	29.96	(1828)
Compression Ratio	14.0:1	
Dry Weight - Engine only - kg(lb)	2900	(6395)
Wet Weight - Engine only - kg(lb)	3045	(6714)

PERFORMANCE DATA

Steady State Speed Stability Band at any Constant Load Hydraulic (std.) or Electric Governor - %	±0.25 or better	
Maximum Overspeed Capacity - rpm	1750	
Moment of inertia of Rotating Components - kgf·m^2(lbf·ft^2) (Includes Std.Flywheel)	41.74	(991)
Cyclic Speed Variation with Flywheel a 1500rpm	1/103	
1200rpm	1/65	
1000rpm	1/47	

ENGINE MOUNTING

Maximum Bending Moment at Rear Face of Flywheel Housing - kgf·m(lbf·ft)	200	(1447)

AIR INLET SYSTEM

Maximum Intake Air Restriction (Includes piping)		
With Clean Filter Element - mm H_2O (in.H_2O)	400	(15.7)
With Dirty Filter Element - mm H_2O (in.H_2O)	635	(25.0)

EXHAUST SYSTEM

Maximum Allowable Back Pressure - mm H_2O (in.H_2O)	600	(23.6)

LUBRICATION SYSTEM

Oil Pressure at ldle - kgf/cm^2(psi)	2～3	(29～43)
at Rate Speed - kgf/cm^2(psi)	5～6.5	(71～93)
Maximum Oil Temperature - °C(°F)	110	(230)
Oil Capacity of Standard Pan High - liter (U.S.gal)	80	(21.1)
Low - liter (U.S.gal)	50	(13.2)
Total System Capacity (lncludes Oil Filter) - liter (U.S.gal)	100	(26.4)
Maximum Angle of lnstallation (Std. Pan) Front Down	11.5°	
(Engine Only) Front Up	10°	
Side to Side	22.5°	

COOLING SYSTEM

Coolant Capactiy (Engine only) - liter (U.S.gal)	55	(14.5)
Maximum External Friction Head at Engine Outlet - kgf/cm^2(psi)	0.35	(5.0)
Maximum Static Head of Coolant above Crankshaft Center - m(ft)	10	(32.8)
Maximum Outlet Pressure of Engine Water Pump - kgf/cm^2(psi)	2	(28.6)
Standard Thermostat (modulating)Range - °C(°F)	71～85	(160～185)
Maximum Coolant Temperature at Engine Outlet - °C(°F)	98	(208)
Minimum Coolant Expansion Space - % of System Capacity	10	
Maximum Coolant Temperature at Intercooler lnlet, TK type - °C(°F)		
Maximum Air Restriction on Discharge Side of Radiator and Fan-mm H_2O(in.H_2O)	10	(0.4)

FUEL SYSTEM

Fuel Injector	Mitsubishi PS6 × 1	
Maximum Suction Head of Feed Pump - mm Hg (in. Hg)	75	(3.0)
Maximum Static Head of Return & Leak Pipe - mm Hg (in.Hg)	150	(5.9)

STARTING SYSTEM

Battery Charging Alternator - V-Ah	24-30
Starting Motor Capacity - V -kW	24-7.5
Maximum Allowable Resistance of Cranking Circuit - m Ω	2.5
Recommended Minimum Battery Capacity	
At 5°C(41°F) and above - Ah	200
Below 5°C(41°F) through - 5°C(23°F)	500

ENGINE RATING

All data represent net performance with standard accessories such as air cleaner, inlet /exhaust manifolds, fuel oil system, L.O. pump, etc. under the condition of 100kPa(29.6inHg) barometric pressure, 77°F(25°C) ambient temperature and 30% relative humidity.

ITEM	UNIT	STAND-BY POWER			PRIME POWER			CONTINUOUS C		CONTINUOUS D	
		50Hz	60Hz	50Hz	50Hz	60Hz	50Hz	50Hz	60Hz	50Hz	60Hz
Engine Speed	rpm	1500	1200	1000	1500	1200	1000	1500	1200	1500	1200
No. of Cylinders		6									
Bore	mm	170									
	(in.)	(6.69)									
Stroke	mm	220									
	(in.)	(8.66)									
Displacement	liter	29.96									
	($in.^3$)	(1828)									
Brake Horse power without Fan	HP	878	717	576	798	650	523	690	570	610	503
	(kW)	(655)	(535)	(430)	(595)	(485)	(390)	(515)	(425)	(455)	(375)
Brake Mean Effective Pressure	kgf/cm^2	17.8	18.2	17.5	16.2	16.5	15.9	14.0	14.5	12.4	12.8
without Fan	(psi)	(253)	(259)	(249)	(230)	(235)	(226)	(199)	(206)	(176)	(182)
Mean Piston Speed	m/s	11.0	8.8	7.3	11.0	8.8	7.3	11.0	8.8	11.0	8.8
	(ft/min)	(2165)	(1732)	(1437)	(2165)	(1732)	(1437)	(2165)	(1732)	(2165)	(1732)
Maximum Regenerative Power	HP	86	59	44	86	59	44	86	59	86	59
Absorption Capacity without Fan	(kW)	(64)	(44)	(33)	(64)	(44)	(33)	(64)	(44)	(64)	(44)
Intake Air flow	m^3/min	52	41	34	47	37	31	41	33	37	30
	(CFM)	(1836)	(1448)	(1201)	(1660)	(1306)	(1095)	(1448)	(1165)	(1306)	(1059)
Exhaust Gas Flow	m^3/min	137	109	90	125	99	82	110	88	98	78
	(CFM)	(4837)	(3849)	(3178)	(4414)	(3496)	(2895)	(3884)	(3107)	(3460)	(2754)
Coolant Flow	liter/min	670	540	450	670	540	450	670	540	670	540
	(U.S. GPM)	(177)	(143)	(119)	(177)	(143)	(119)	(177)	(143)	(177)	(143)
Coolant Flow to Intercooler	liter/min	—	—	—	—	—	—	—	—	—	—
(TK only)	(U.S. GPM)										
Cooling Air Flow	m^3/min	720	582	444	720	582	444	720	582	720	582
(Std. Fan)	(CFM)	(25423)	(20550)	(15678)	(25423)	(20550)	(15678)	(25423)	(20550)	(25423)	(20550)
Fan Loss Horse Power	HP	27	20	14	27	20	14	27	20	27	20
(Std. Fan)	(kW)	(20)	(15)	(10)	(20)	(15)	(10)	(20)	(15)	(20)	(15)
Radiated Heat to Ambient	kcal/hr	38957	31155	25557	35651	28244	23206	31249	25116	27999	22318
	(BTU/min)	(2577)	(2061)	(1690)	(2358)	(1868)	(1535)	(2067)	(1661)	(1852)	(1476)
Heat Rejection to Coolant	kcal/hr	324641	259626	212976	297095	235365	193379	260406	209304	233325	185984
	(BTU/min)	(21471)	(17171)	(14086)	(19649)	(15567)	(12790)	(17223)	(13843)	(15432)	(12301)
Heat Rejection to Inter Cooler	kcal/hr	—	—	—	—	—	—	—	—	—	—
(TK Version)	(BTU/min)										
Heat Rejection to Exhaust	kcal/hr	371786	287814	243905	343771	260919	221462	307380	237178	280701	212993
	(BTU/min)	(24589)	(19036)	(16132)	(22737)	(17257)	(14647)	(20330)	(15687)	(18565)	(14087)
Noise Level (1 m height & distance)	dB(A)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
(excludes, Intake,Exhaust & Fan)											

The specifications are subject to change without notice.

APPLICATION : GENERATOR

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