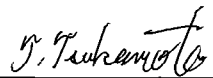



SPECIFICATION
OF
MITSUBISHI DIESEL ENGINE
MODEL : S6R2-PTAA-C
FOR DIESEL GENERATOR SET

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								APPROVED BY	DRAWN BY
									
				DATE	2012.12.17				

1.GENERAL

Object and use	:	Diesel generator
Color of painting	:	Mansel NO. 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
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Safety stop device test**Guarantee**

The guarantee shall be valided for the period of either 1year or 1000Hr (at Hr counter) after installation, whichever the shorter.

The guarantee shall cover against manufacturer defect, materials and workmanship only, and shall not be applicable to damage sustained through mishandling of the equipment.

Standard

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

2.PRINCIPAL PARTICULARS

Model	:	MITSUBISHI S6R2-PTAA-C
Type	:	4cycle stroke, water cooled diesel engine
Combustion chamber	:	Direct injection type
Aspiration	:	Turbocharged with inter 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	:	Length Apx. 2562mm
(with Radiator & Piping)	:	width Apx. 1710mm
	:	Height Apx. 1724mm
Dry weight (Approx.)	:	2850kg (without accessories)
Fuel oil	:	ASTM D975 NO. 2 - D or BS 2869 class A
Lubricating oil	:	API service CF class
		SAE No. 15W-40
Output at ISO 3046 standard air conditions (25°C, 100kPa, 30% Humid)		
Stand - by rating	:	710kW/1500min ⁻¹
Fuel consumption ratio at Stand-by rating	:	207g/kW-hr
(allowance +5%)		
Lub, oil consumption ratio at Stand-by rating	:	within 0.8g/kW-hr

3. STANDARD EQUIPMENTS

(1) Power line system

Flywheel	:	DWG.NO.37596-21001 SAE J620d 18in, except screw size
Flywheel housing	:	DWG.NO.37596-21001 SAE J617c NO.0, except screw size
Engine mounting	:	DWG.NO.37596-14001 4 points mounting, C = 160mm
Torsional vibration damper	:	Viscous type

(2) Air intake system

Air cleaner	:	DWG.NO.37596-30385 loose supply Donaldson EGB15 × 2 pcs Paper element type without rain cap
Turbocharger	:	MITSUBISHI TD Type Model : TF15L-60QV(49)
Air cooler	:	Air 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 (47920-00700) loose supply JIS 200A, L = 230mm, Weight 38kg
Companion flange	:	Not supply
Breather	:	DWG.NO.37596-43081 Downside direction type For blow - off to outside of engine room

(4) Lubricating system

Oil pump	:	Gear pump type
Capacity of oil pump	:	1500min ⁻¹ : 270 L/min.
Lub. oil pressure at main gallery	:	0.5 ~ 0.65 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 cartridge type × 2pcs filter mesh : 20 μ with by - pass alarm switch
Lub. oil filter (By - pass flow)	:	Paper element cartridge 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	:	1500min ⁻¹ : 820 L/min.
Thermostat	:	Wax pellet type × 2pcs Open at 71°C ~ 85°C
Fan	:	Pusher type steel fan 1250 diameter Fan speed ratio i = 0.675
Radiator & Inter cooler piping	:	DWG.NO.37596-47084 loose supply
Inter cooler piping stand	:	Not supply from M.H.I. Should be arrange by D/G set manufacturer as S.T.D. equipment
Radiator & I/C Assy.	:	DWG.NO.S33-4530 Corrugated fin type
Radiation area	:	Inter cooler side : 46.64cm ² Radiator side : 154.29m ²
weight (DRY)	:	Approx. 425kg
Filler cap	:	Press. of open 50 kPa Press. of vacuum 0 ~ 5 kPa
Capacity coolant (Approx.)	:	Engine : 55 L Radiator : 80 L Pipings : 3 L Total capacity : 138 L
(6) Fuel system		
Fuel inlet pipings	:	DWG.NO.37596-62112 loose supply flexible hose (Rc 1/2 joint)
Fuel return pipings	:	DWG.NO.37596-61312 loose supply flexible hose (Rc 1/2 joint)
Injection pump	:	Bosch type "PS6" without timer
Feed pump	:	Piston type with priming pump

- Injection Nozzle : Hole type 0.325mm× 10 holes for 1500min⁻¹
- Fuel filter : Paper element cartridge type × 2pcs
Filter mesh : 20 μ
- (7) Control system
- Governor : DWG.NO.37596-63016
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 : For low idling speed setting
Not supply
- Potentiometer : For rated speed setting
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 : with key, with heat position
Not supply
- Starting motor : DC24V, 7.5KW
Reduction type with safety relay
with 2 poles connector (DWG.NO.S14-0320)

Safety relay	:	DWG.NO.S10-0052 loose supply For chattering of starting motor
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 with 2 poles connector (DWG.NO.S10-0550)
Recommended battery capacity	:	DC24V, 250AH 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 switches	:	DWG.NO.37596-90240
Alarm and trip	:	
Low oil press. switch	:	DWG.NO.S11-0796 (04442-45400) Diaphragm type : 0.15MPa 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.S11-1370 Piston type : 0.15MPa switch on
Oil filter alarm lamp	:	Not supply
Air filter alarm indicator	:	DWG.NO.S11-0920 loose supply Mechanical type : 635mmH ₂ O switch on

(11) Instrument

Meter and sensor	:	DWG.NO.37596-90151
Tachometer	:	Pulse type for engine speed With electrical hour meter Not supply
Magnetic pick up	:	DWG.NO.S13-2011 For tachometer, pin-joint type
Cable	:	For magnetic pick up Not supply
Thermometer	:	Electrical type for jacket water and lub. oil temp. Not supply
Press. gage	:	Electrical type for lub. oil press. Not supply With 2 poles connector (DWG.NO.S14-0330)
Thermometer	:	For exhaust gas temp. Not supply

(12) Others

Service meter	:	Not supply
Tools	:	Not supply
Spare parts	:	Not supply

4. ACCESSORIES (Loose supply parts)

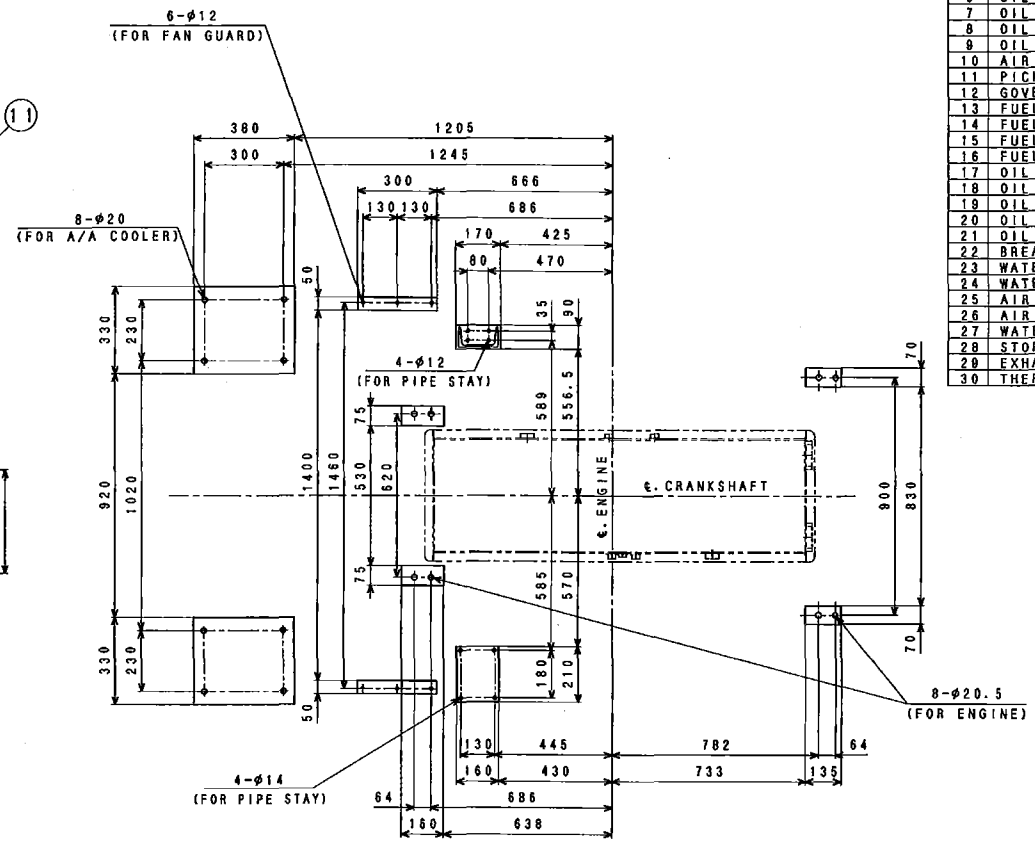
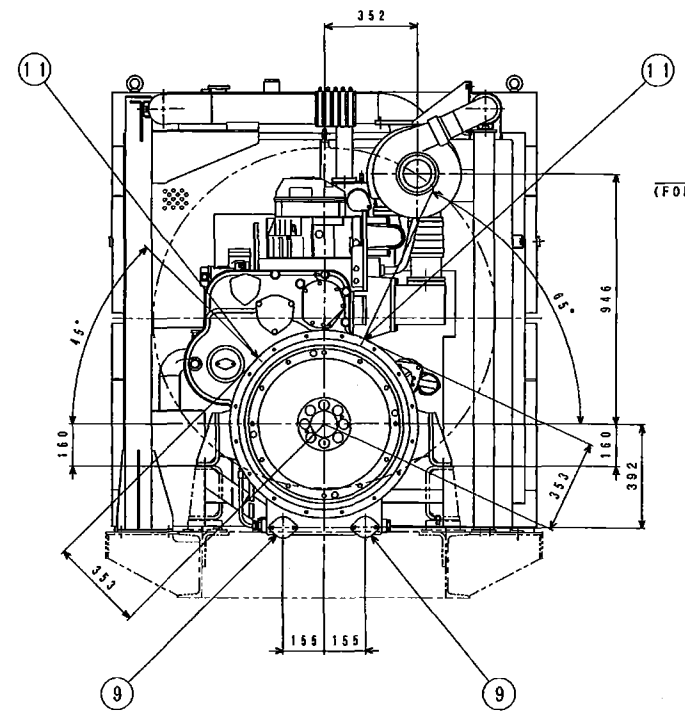
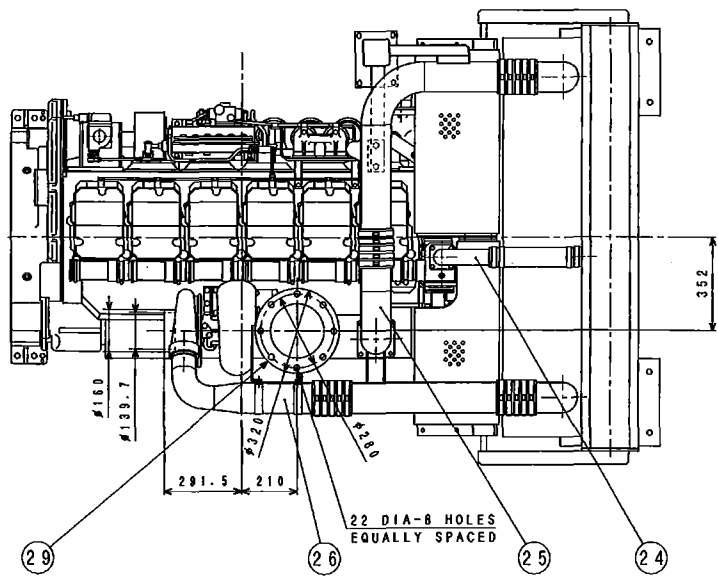
NO.	PARTS NO.	PARTS NAME	Q' TY	DWG. NO.	
1	47220-46401	AIR CLEANER ASSY.	2	S35-1011	37596-30385
2	47221-17500	HOSE, AIR	1	S35-0751	
3	47501-72500	PIPE, AIR	1		
4	47220-30400	HOSE, ELBOW	1	S35-0701	
5	45735-73400	HOSE, AIR	1	S35-0731	
6	05317-52001	CLAMP	3		
7	05317-51801	CLAMP	8		
8	47220-38300	BAND	4	S35-0600	
9	47220-34401	INDICATOR	2	S11-0920	
10	47920-00700	FLEXIBLE JOINT	1	S37-1080	
11	45955-15170	HOSE, VINYL	1	for breather	
12	05317-80480	CLAMP	2		
13	37547-15020	RAD. & I/C ASSY.	1	S33-4530	37596-47084
14	45960-15035	HOSE	1		
15	45960-16520	HOSE	1		
16	05317-50801	CLAMP	4		
17	05317-50901	CLAMP	4		
18	37531-10202	DUCT, AIR	1		
19	37531-20302	DUCT, AIR	1		
20	37531-00602	DUCT, AIR	1		
21	05317-51401	CLAMP	25		
22	35A31-07600	HOSE	5		
23	45951-10030	PIPE,FLEXIBLE	1	37596-61312	
24	45950-11400	CONNECTOR	1		
25	45950-51500	PIPE,FLEXIBLE	1	37596-62112	
26	45950-11100	CONNECTOR	1		
27	04410-33100	CONTROLLER	1	S13-1042	37596-63016
28	04410-32902	CONNECTOR	1	S13-1022	
29	04410-43500	CABLE, PICK UP	1	S13-2020	
30	04322-50001	RELAY, SAFETY	1	S10-0052	
31	F8665-02100	CONNECTOR	1	S14-0320	for starter
32	32B90-00300	CONNECTOR	1	S10-0550	for alternator
33	MH052231	CONNECTOR	1	S14-0330	37596-90151

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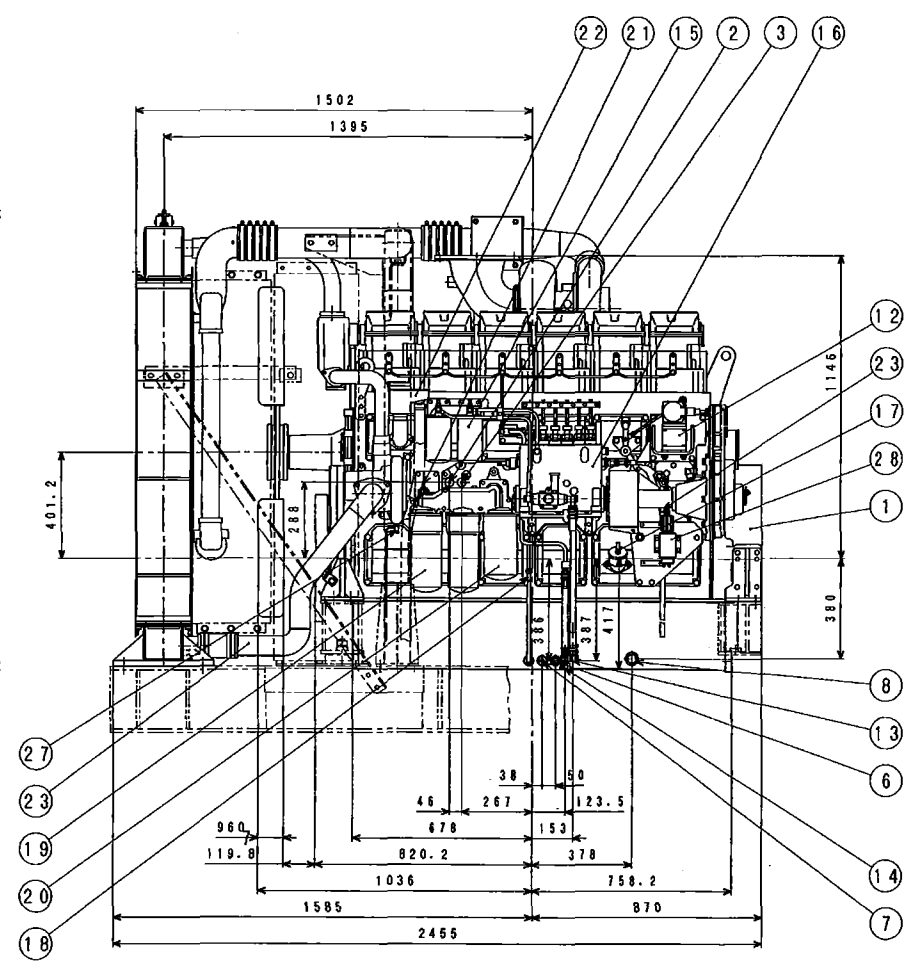
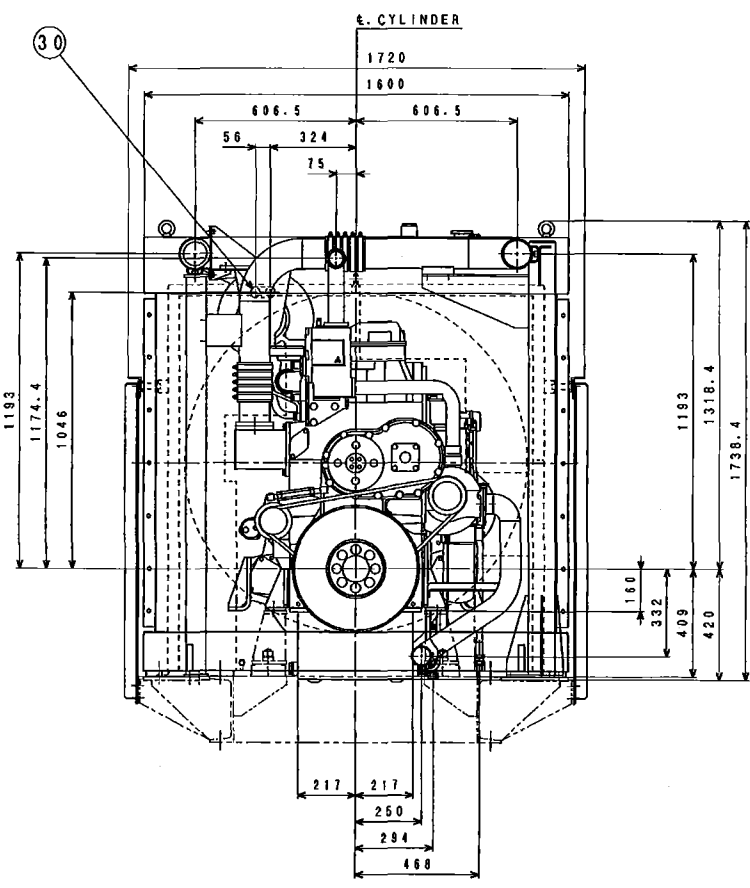
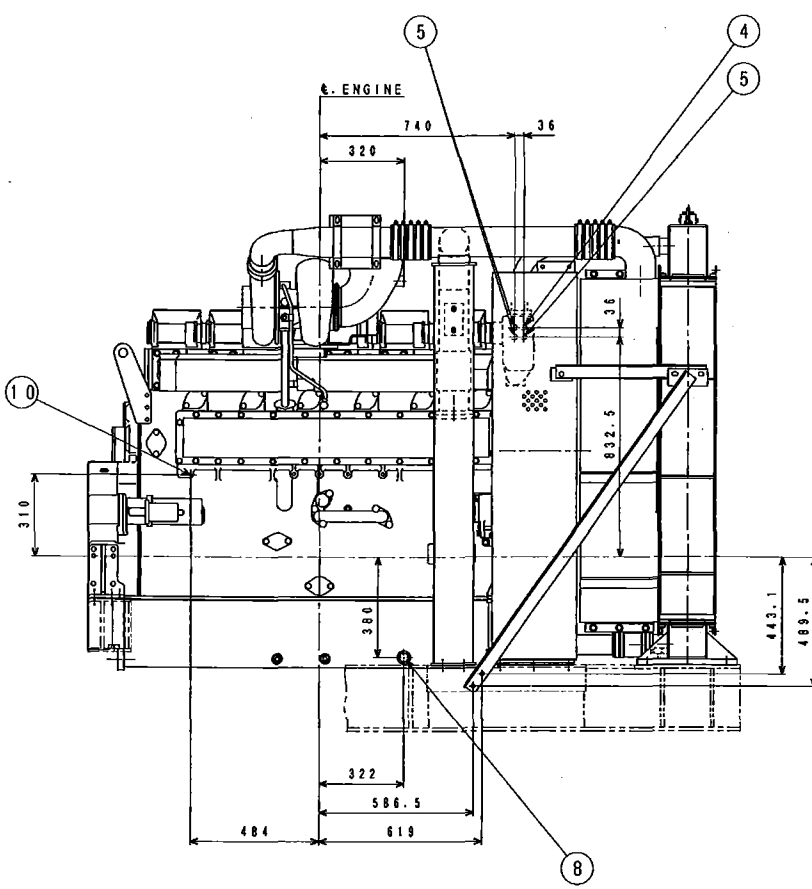
5. DRAWINGS

NO.	DWG. NO.	DWG. NAME	REV.
1	37596-00481	ENGINE OUTLINE	
2	37596-01021	JOINT DETAIL	
3	37596-04061	WIRING DIAGRAM	
4	37596-14001	MOUNTING DETAIL	
5	37596-21001	FLYWHEEL & HOUSING DETAIL	
6	37596-30385	AIR CLEANER	
7	37596-43081	BREATHER	
8	37596-47084	RAD. & I/C ASSY.	
9	37596-61312	FUEL RETURN PIPING	
10	37596-62112	FUEL INLET PIPING	
11	37596-63016	GOVERNOR	
12	37596-87502	STOP SYSTEM	
13	37596-90142	METER & SENSOR	
14	37596-90151	METER & SENSOR	
15	37596-90240	ALARM SWITCH	
16	S10-0052	SAFETY RELAY	
17	S10-0540	ALTERNATOR	
18	S10-0550	CONNECTOR	
19	S11-0551	THERMO SWITCH	
20	S11-0796	PRESSURE SWITCH	
21	S11-0920	INDICATOR	
22	S11-1370	FILTER ALARM SWITCH	
23	S13-0282	SOLENOID	
24	S13-1022	CONNECTOR	
25	S13-1042	CONTROLLER	
26	S13-1761	ACTUATOR	
27	S13-2011	MAGNETIC PICK UP	
28	S13-2020	PICK UP CABLE	
29	S14-0320	CONNECTOR	
30	S14-0330	CONNECTOR	

NO.	DWG. NO.	DWG. NAME	REV.
31	S33-4530	RAD. & I/C ASSY.	
32	S35-0600	BAND	
33	S35-0701	HOSE, ELBOW	
34	S35-0731	HOSE, AIR	
35	S35-0751	HOSE, AIR	
36	S35-1011	AIR CLEANER	
31	S37-1080	FLEXIBLE PIPE	



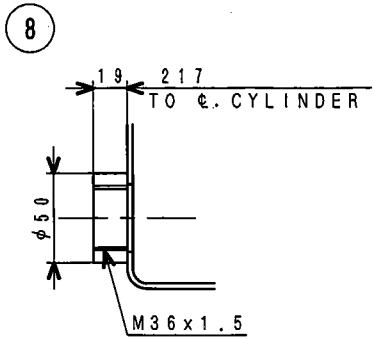
NO.	PARTS NAME	SIZE	REFERENCE
1	FLYWHEEL & HOUSING		37596-21001
2	OIL PRESS. GAGE UNIT JOINT	Rc1/8	37596-01021
3	OIL PRESS. SWITCH JOINT	Rc1/8	
4	THERMOSWITCH JOINT	Rc1/2	
5	THERMOSWITCH JOINT	Rc1/2	
6	OIL PAN (A) JOINT	M20x1.5	
7	OIL PAN (B) JOINT	M16x1.5	
8	OIL PAN (C) JOINT	M36x1.5	
9	OIL PAN (D) JOINT		
10	AIR PRESS. GAGE JOINT	Rc1/8	
11	PICKUP JOINT	UNF5/8-18	37596-01021
12	GOVERNOR		
13	FUEL INLET PIPE JOINT	Rc1/2	37596-01021
14	FUEL RETURN PIPE JOINT	Rc1/2	37596-01021
15	FUEL FILTER		
16	FUEL INJECTION PUMP		
17	OIL FILLER		
18	OIL LEVEL GAGE		
19	OIL FULL-FLOW FILTER		
20	OIL BY-PASS ALARM SWITCH		
21	OIL BY-PASS ALARM SWITCH		37596-01021
22	BREATHER		
23	WATER INLET PIPE		37596-01021
24	WATER OUTLET PIPE		
25	AIR INLET PIPE		
26	AIR OUTLET PIPE		37596-01021
27	WATER DRAIN COCK		
28	STOP SOLENOID (RUN-OFF)		
29	EXHAUST GAS FLANGE	200A	
30	THERMOMETER, EX. GAS JOINT	Rp3/4	37596-01021



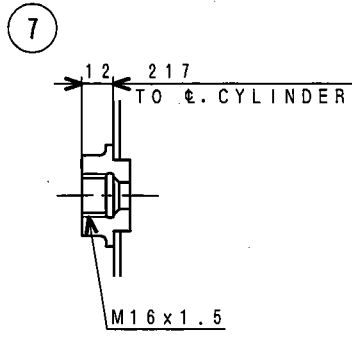
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FOR ASSEMBLY PRODUCTION FROM SCALE		1:10	
DATE	CHK	1989.11.28	
DESIGNER	CHK	1989.11.28	
S6R2-PTAA DIESEL ENGINE		三豐工業株式会社相模原製作所	
SAGINAMI MACHINERY WORKS, HAYASHI, HEAVY INDUSTRIES, LTD.		図面番号 37596-00481	

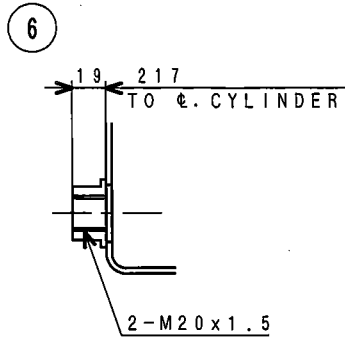
出図
相模
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1.11
FULL-CAD



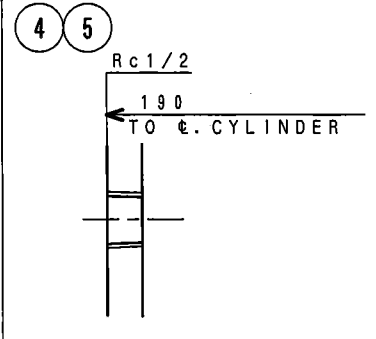
OIL PAN (C) JOINT



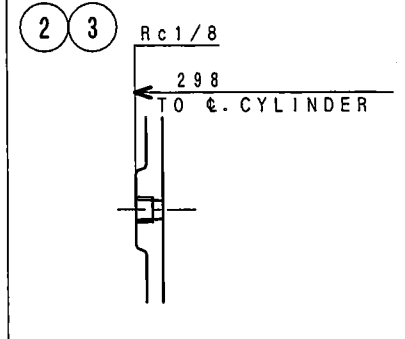
OIL PAN (B) JOINT



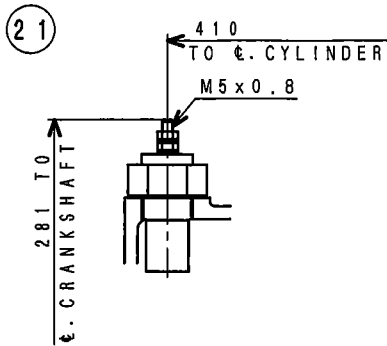
OIL PAN (A) JOINT



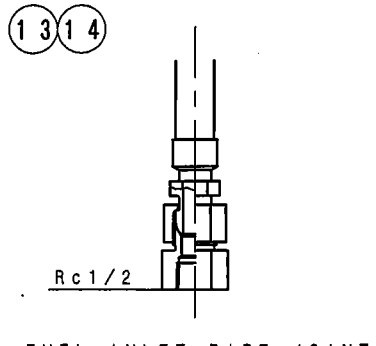
THERMOSWITCH JOINT
THERMOMETER UNIT JOINT



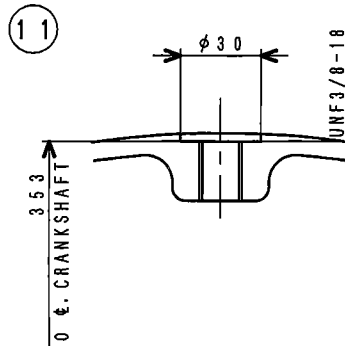
OIL PRESS. SWITCH JOINT
OIL PRESS. GAGE UNIT JOINT



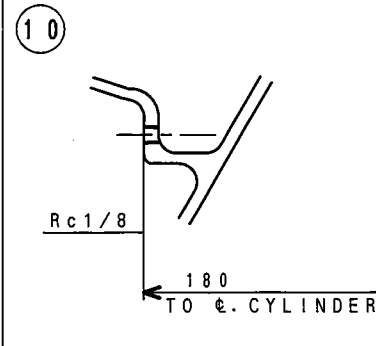
OIL BY-PASS ALARM SWITCH



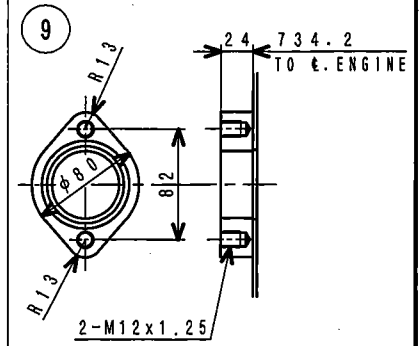
FUEL INLET PIPE JOINT
FUEL RETURN PIPE JOINT



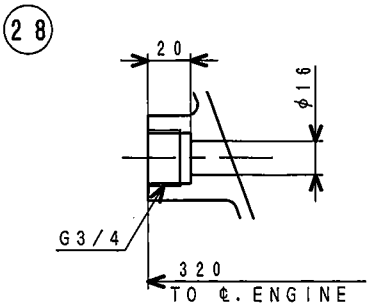
PICKUP JOINT



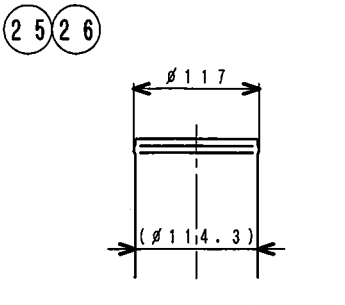
AIR PRESS. GAGE JOINT



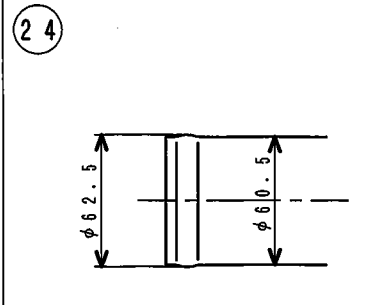
OIL PAN (D) JOINT



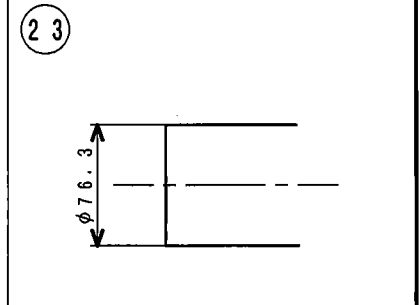
THERMOMETER, EX. JOINT



AIR INLET PIPE JOINT
AIR OUTLET PIPE JOINT



WATER OUTLET PIPE JOINT



WATER INLET PIPE JOINT

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注記 (1) 本図は、S6R2-PTAA用ジョイント詳細図である。

承認 APPD	検図 CHK	製図 DRN	3/4 ANGLE PROJECTION 尺度 SCALE
橋口	竹 福	青 藤	
	谷 田		
4590-H431	12.11.28	谷 戸	
CHG	EQ-NO	DATE	CHK
			1999.12.23

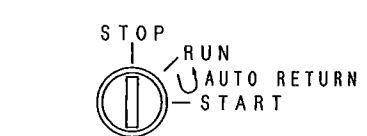
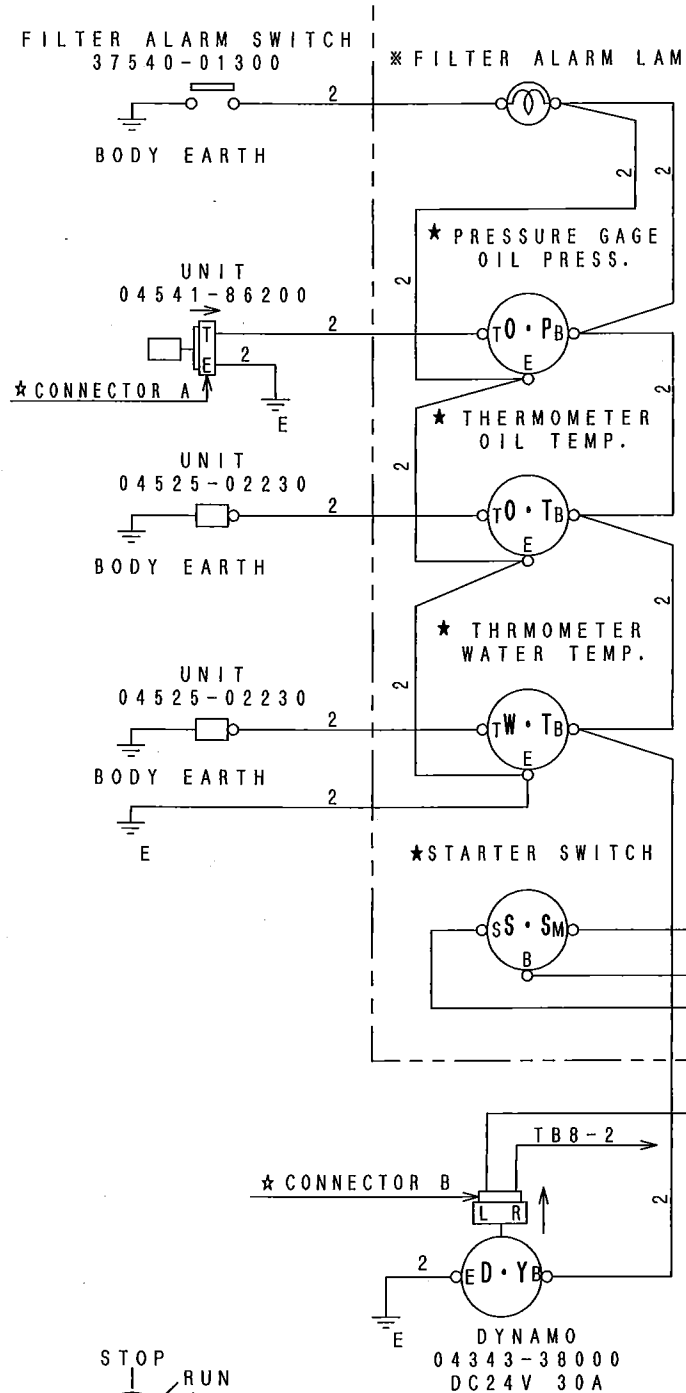
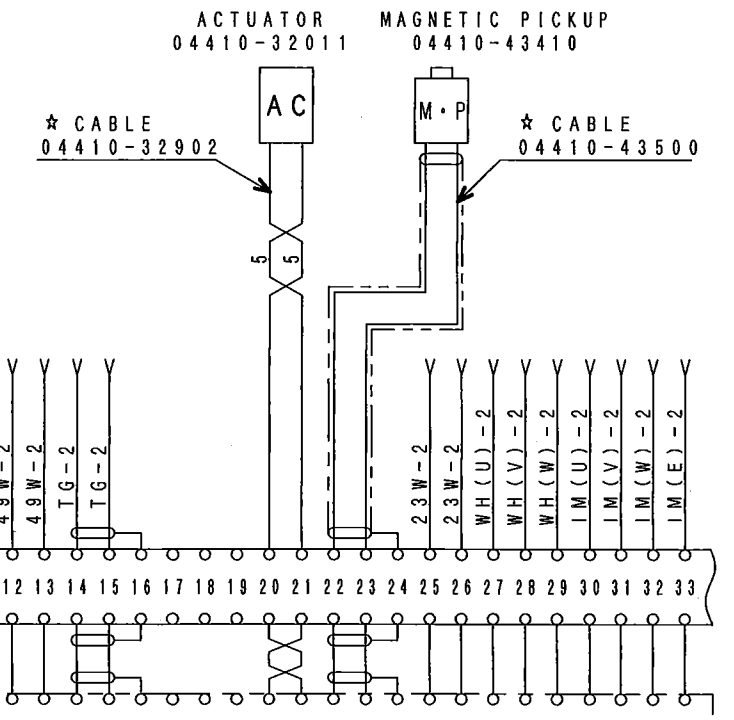
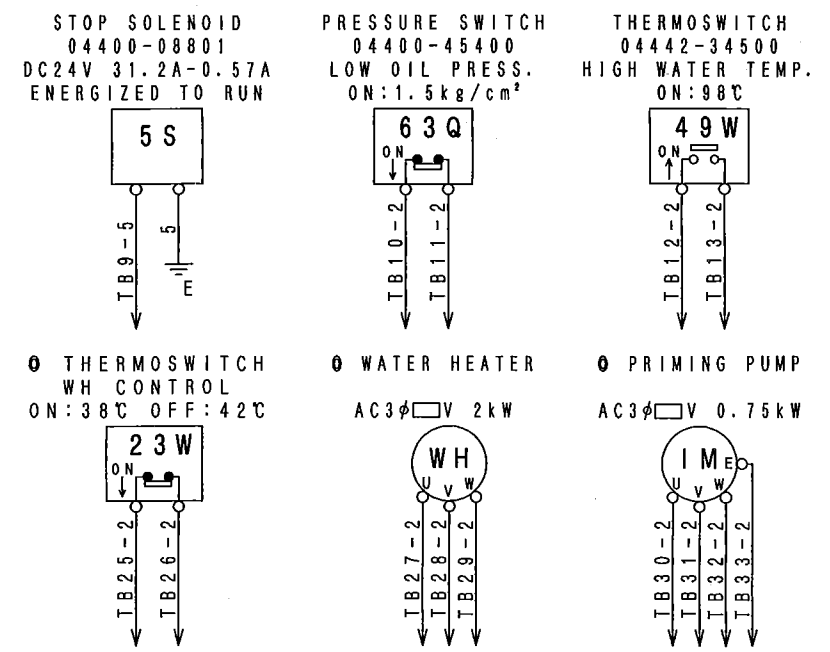
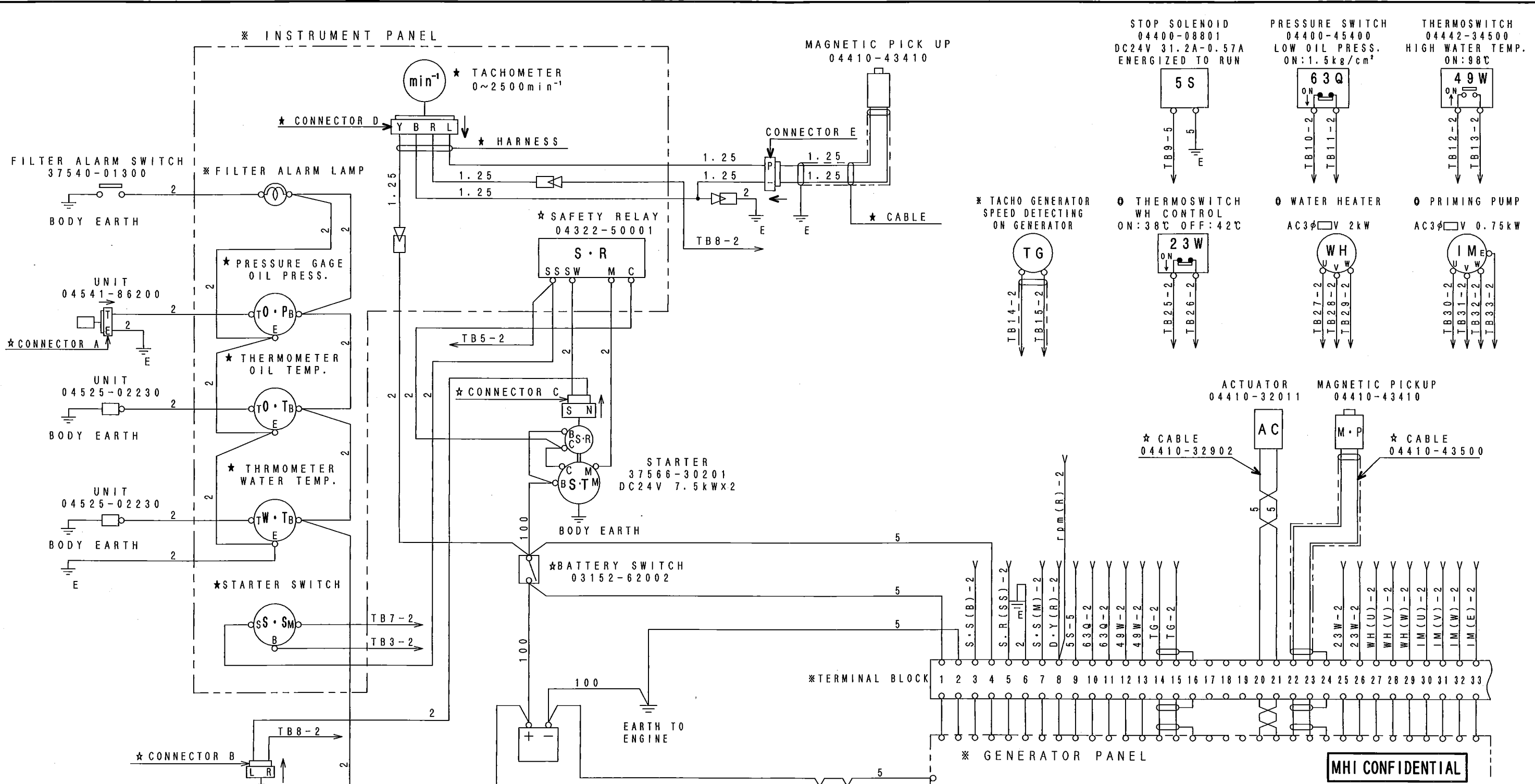
S6R, S6R2
JOINT DETAIL

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. 37596-01021

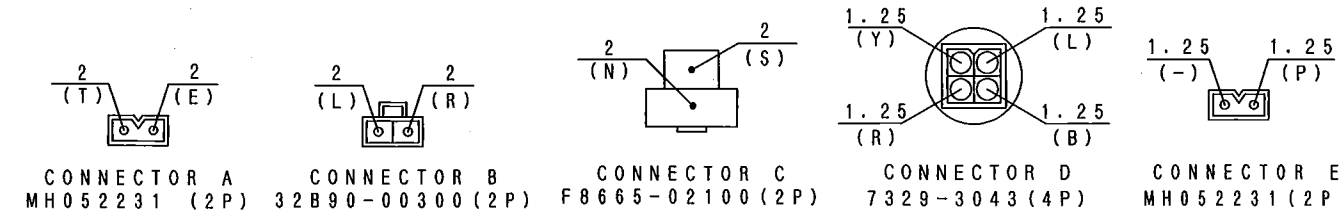
3 新 図
① 旧 引 図
サイズ
A 3
② 組 立 図
2 納 入 品
3 組 立 品
4 組 立 品
5 組 立 品
6 その他 (購入品)

M/C



STARTER SWITCH KEY SWITCH CONDITION

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



(7) THE MARK * IS SUPPLIED. (NOT SUPPLY)
 (6) 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. DISTINATION
 (5) THE MARK ○ SHOWS OPTION PARTS. WIRE SIZE
 (4) MEANING OF THE WIRE SYMBOL. TB9-5
 (3) CONNECTOR ARRANGEMENT IS SEEN FROM ARROW SIDE.
 (2) THE MARK * IS SUPPLIED WITHOUT ASSEMBLED ON ENGINE.
 NOTE (1) THE WIRING AND THE MARK* IS NOT PREPARED BY MITSUBISHI.

CHG	EO-NO	DATE	CHK
APPD	檢口	2012.11.28	谷戸

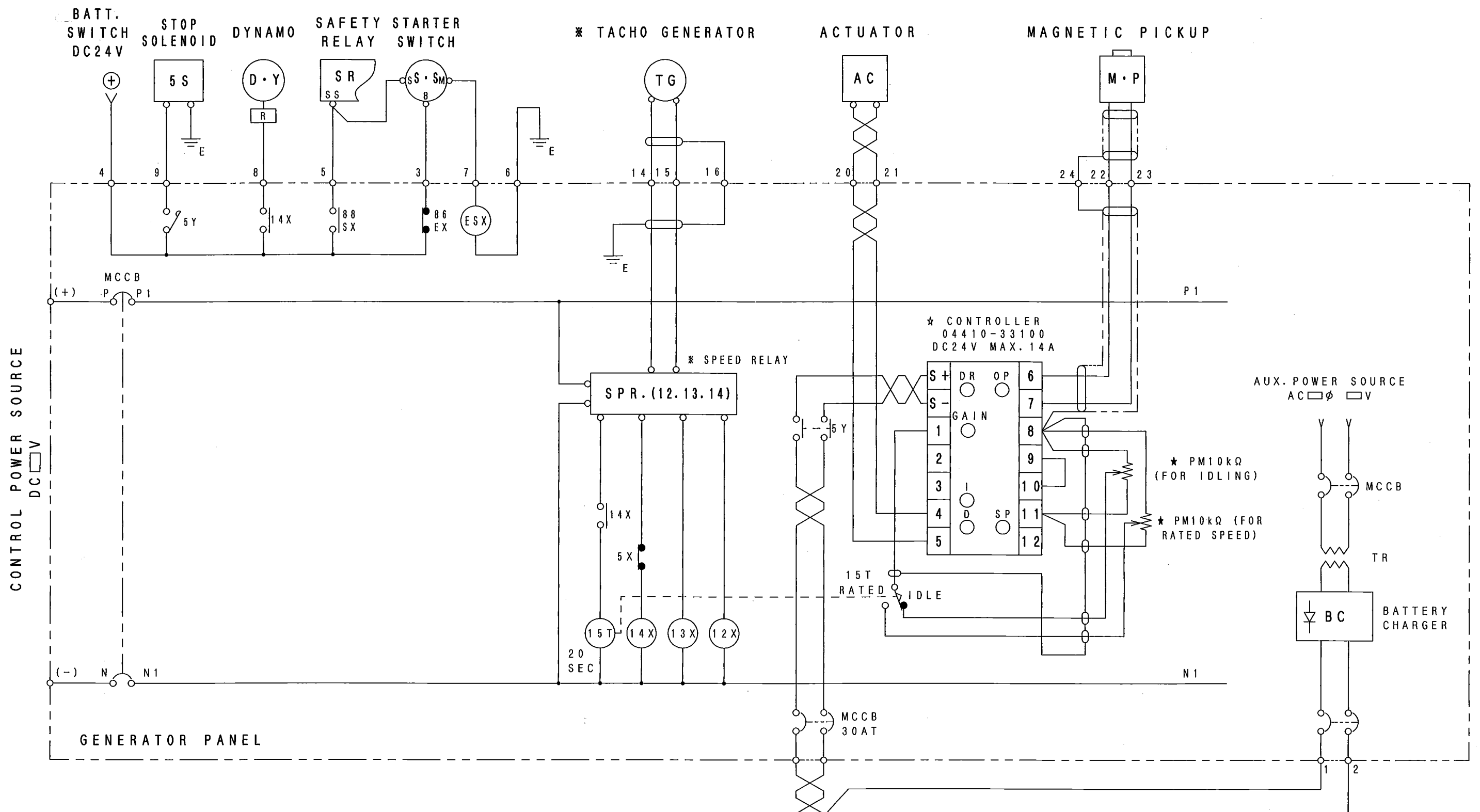
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S6R, S6R2 FOR STAND-BY USE
 WIRING DIAGRAM (ETR)

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

図面番号 37596-04061 1/2
 DRAWING NO.

M/C



14X : CONTACT IS CLOSED ON ENGINE SPEED ESTABLISHMENT (ABOUT 450 R.P.M.).
 5X : CONTACT IS OPENED ON STOP ORDER.
 86EX : CONTACT IS OPENED ON EMERGENCY STOP ORDER (HEAVY TROUBLE).
 88SX : START ORDER (ENG. CRANKING), CONTACT IS CLOSED ON CRANKING ORDER.
 5Y : RUN SIGNAL FOR STOP SOLENOID & GOVERNOR CONTROLLER.
 TO ACTIVATE OPERATION SIGNAL '5Y' TO GOVERNOR CONTROLLER AND STOP SOLENOID, START-UP CONTACT POINT SIGNAL GIVEN FROM STARTER SWITCH ON MACHINE-SIDE PANEL IS NECESSARY TO THE CIRCUIT FOR START-UP ON GENERATOR PANEL.
 (ESX) :

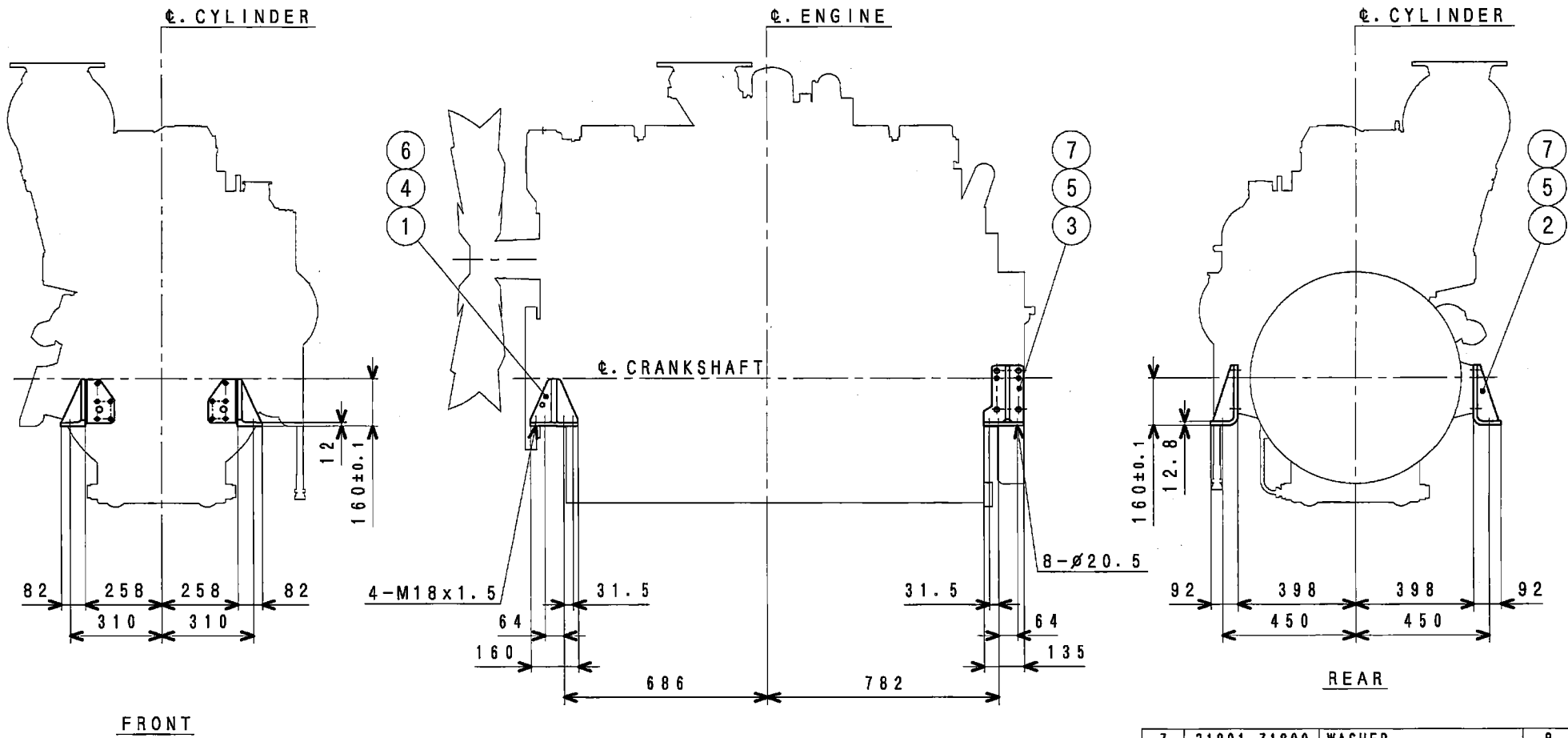
(2) THIS DRAWING IS WIRING DIAGRAM BETWEEN MACHINE SIDE AND THE GENERATOR PANEL. FOR DETAILS, REFER SEQUENCE DIAGRAM (ETR) S25-0200
 NOTE (1) SHALL BE MAKE MORE THAN 40 TURNS PER 1METRE AND LESS THAN 2Ω OF RESISTANCE ON BATTERY LINE AND ACTUATOR LINE TWIST CABLE.

MHI CONFIDENTIAL

CHG	ED-NO	DATE	CHK
路可 APPD	橋口	2012.11.20	中 村

3/4 ANGLE PROJECTION
 尺規 SCALE
S6R, S6R2 FOR STAND-BY USE WIRING DIAGRAM (ETR)
 三菱重工業株式会社 汎用機・特車事業本部
 GENERAL MACHINERY & SPECIAL VEHICLE DEPARTMENTS, MITSUBISHI HEAVY INDUSTRIES, LTD.
 図番番号 DRAWING NO. 37596-04061
 2/2

M/C



FRONT

REAR

MHI CONFIDENTIAL

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
No.	PARTS NO.	PARTS NAME	Q'TY

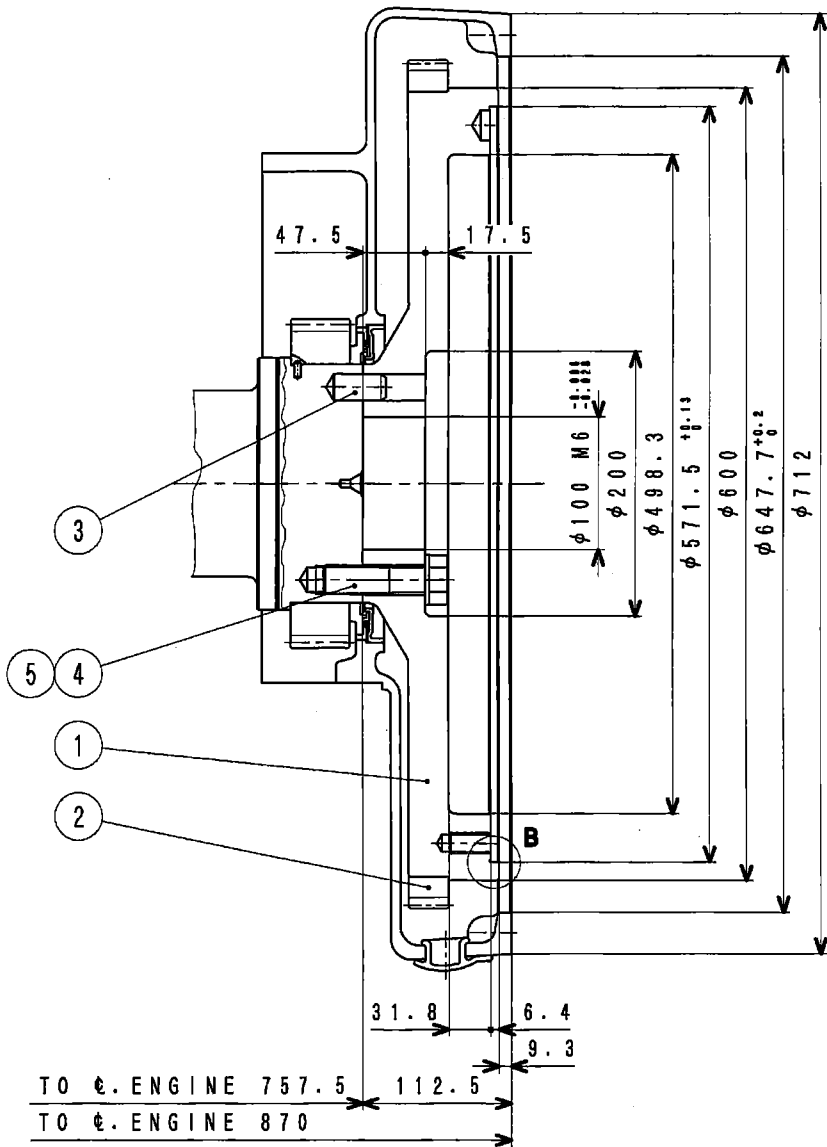
2	4590-B367	'08. 8.29	斎藤
1	4591-0408	'03.11.18	福田
CHG	EO-NO	DATE	CHK
認可 APPD	仁 尾	検図 CHK	竹 谷 福 田
		製図 DRN	谷 斎 藤
		1997. 8.20	

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

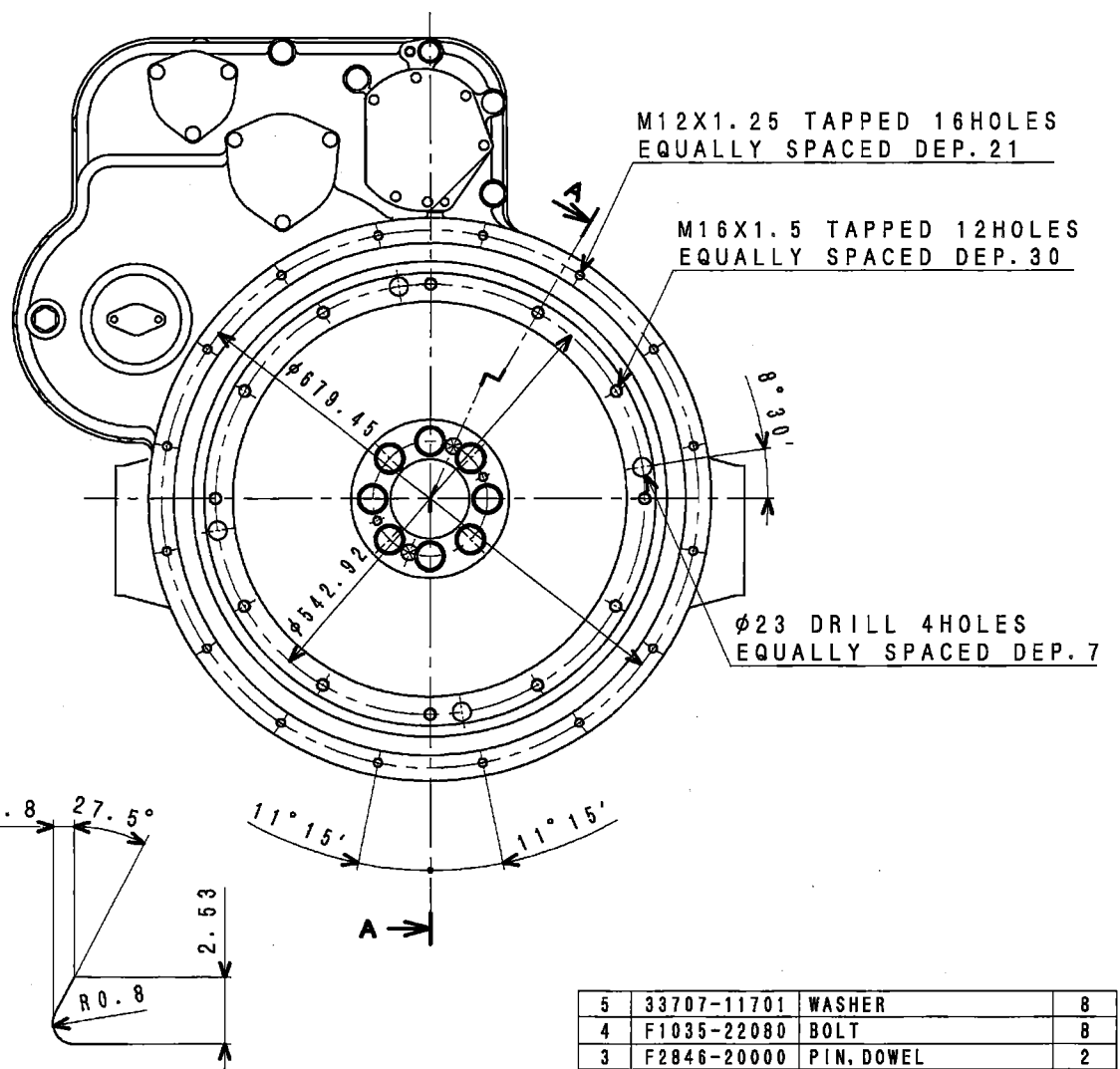
注記 (1) 本図は、陸用標準 (C=160) マウンティングである。

旧引
汎特
2008
11.11

FULL-CAD



SECTION A-A



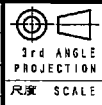
DETAIL B

TO ϕ . ENGINE 757.5 112.5
 TO ϕ . ENGINE 870

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

MHI CONFIDENTIAL

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
CHG	ED-NO	DATE	CHK
認可 APPD	橋	検図 CHK	塚 中 本 村
		製図 DRN	谷 青 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 37596-21001
 DRAWING No. 37596-21001

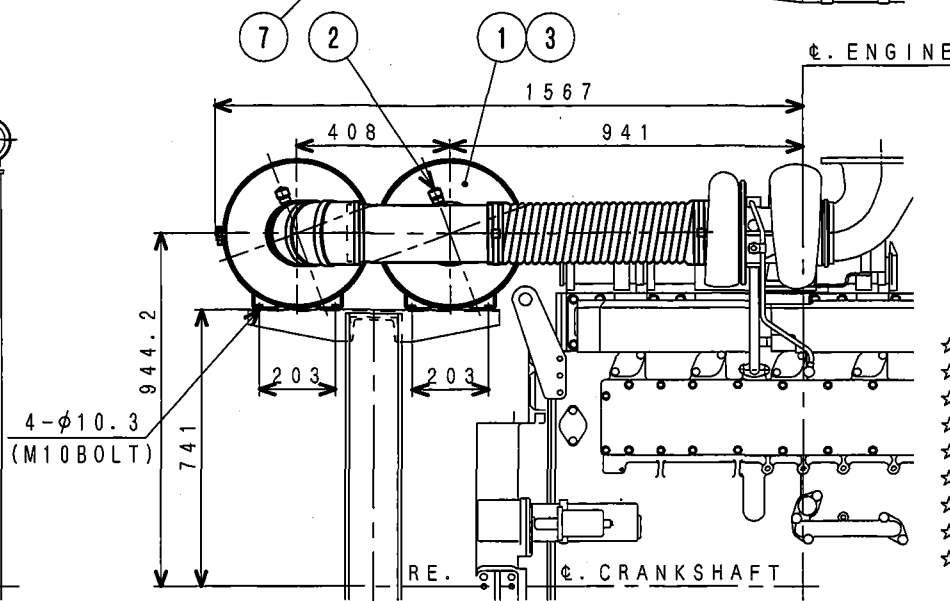
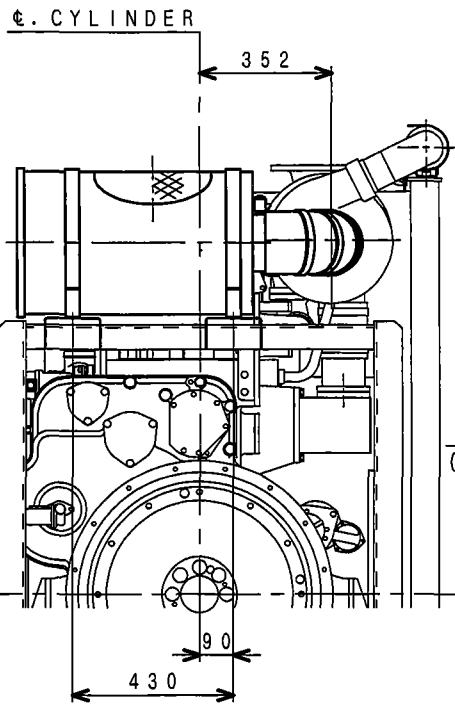
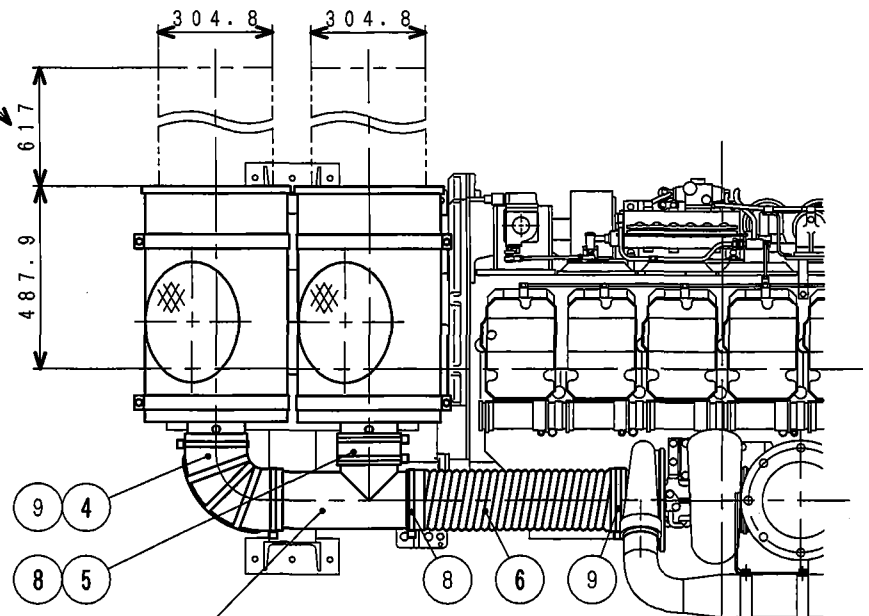
注記 (2) 部番37521-00013F/W ASSY. は、符号①, ②の組合せ部番である。
 (1) 本図は、標準フライホイール&ハウジングであり、SAEJ620c18inフライホイール及びSAEJ617b NO. 0フライホイールハウジングに相当。

旧引
 汎特
 2011
 12.23

M/C

3 新原 3 板金溶接品 4 組立品
 ① 旧引図 A 3 ② 組立図 5 切削品 6 その他(購入品)

WITHDRAWAL SPACE FOR ELEMENT



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

No.	PARTS NO.	PARTS NAME	Q'TY
☆ 9	05317-52001	CLAMP	3
☆ 8	05317-51801	CLAMP	3
☆ 7	47501-72500	PIPE, AIR	1
☆ 6	47221-17500	HOSE, AIR	1
☆ 5	45735-73400	HOSE, RUBBER	1
☆ 4	47220-30400	ELBOW	1
☆ 3	47220-38300	BAND	4
☆ 2	47220-34401	INDICATOR 6.2KPa	2
☆ 1	47220-46400	AIR CLEANER ASSY.	2

注記 (2) 本図は、AIR TO AIR仕様エアクリーナバイピング図である。
 (1) 本図のエアークリーナは、ドナルドソン製EGB15型である。

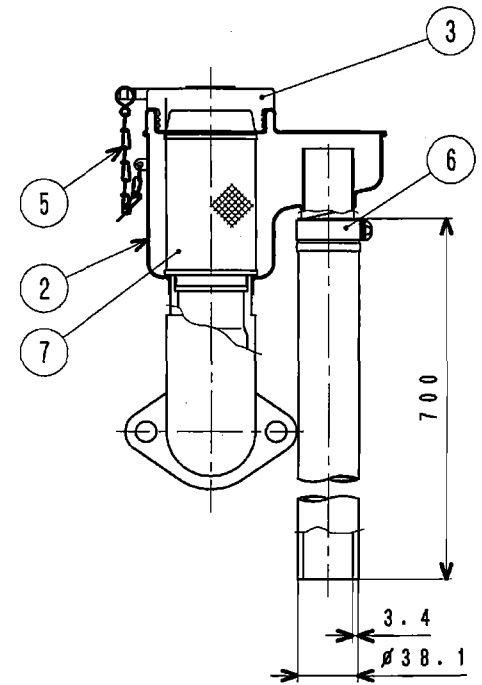
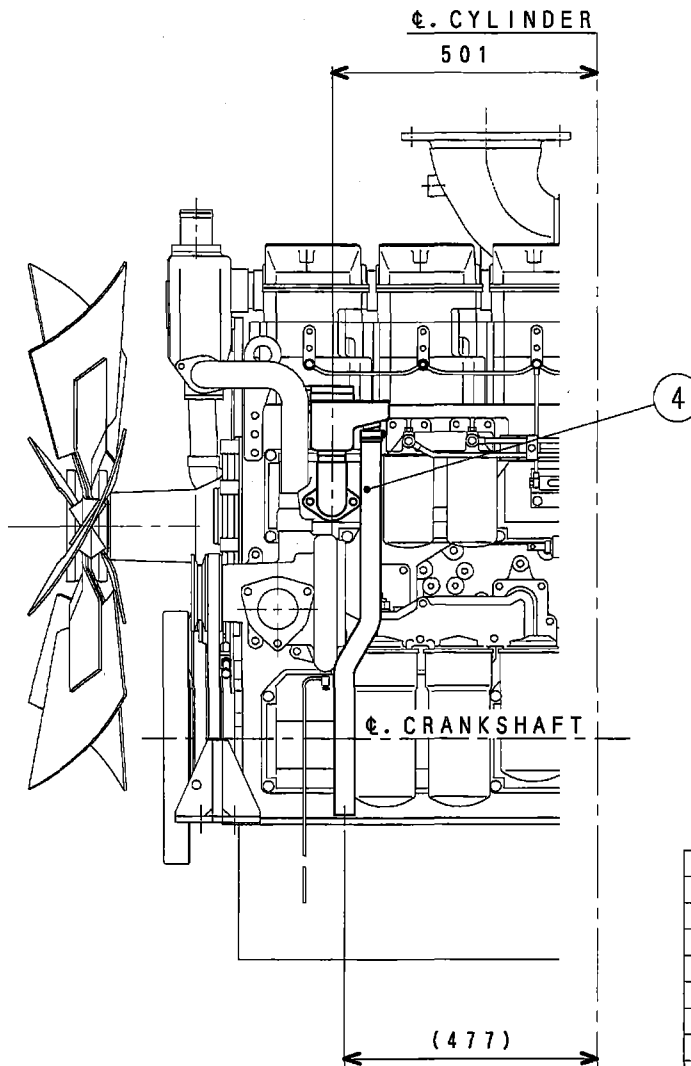
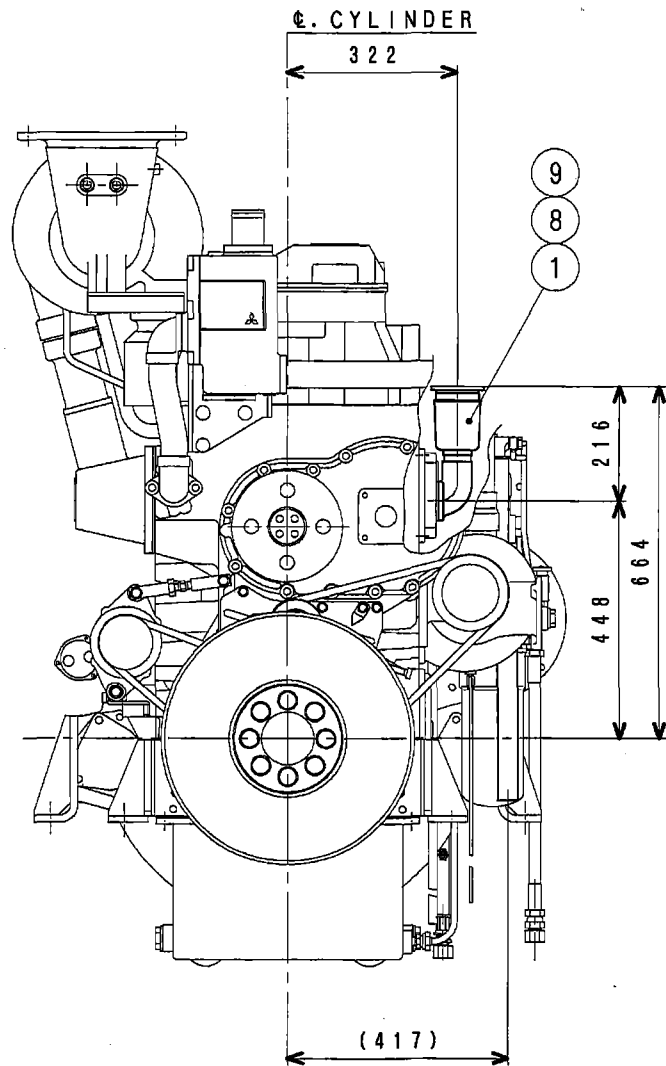
CHG	EO-NO	DATE	CHK
認可 APPD	検図 CHK	製図 DRN	谷 戸
塚 中 村	本 村	2012.11.28	

3rd ANGLE PROJECTION
 尺度 SCALE

S6R2
 AIR CLEANER
 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 37596-30385
 DRAWING No.

①新図 ②サイズ ③関連部品 ④組立品
 ⑤旧引図 A 3 ⑥組立図 ⑦切削品 ⑧その他(購入品)

M/C



DETAIL OF BREATHER

9	F1805-12025	BOLT	2
8	35B36-02900	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
No.	PARTS NO.	PARTS NAME	Q'TY

旧引

 汎特
 2006
 11.17

FULL-CAD

MHI CONFIDENTIAL

2	4590-C595	'06.11.7	齊藤
1	4590-7246	'00.11.10	福田
CHG	EO-NO	DATE	CHK
認可 APPD	松下	換図 CHK	福田 谷戸
		製図 DRN	齊藤
		1999. 5. 20	

3rd ANGLE
 PROJECTION
 尺度 SCALE

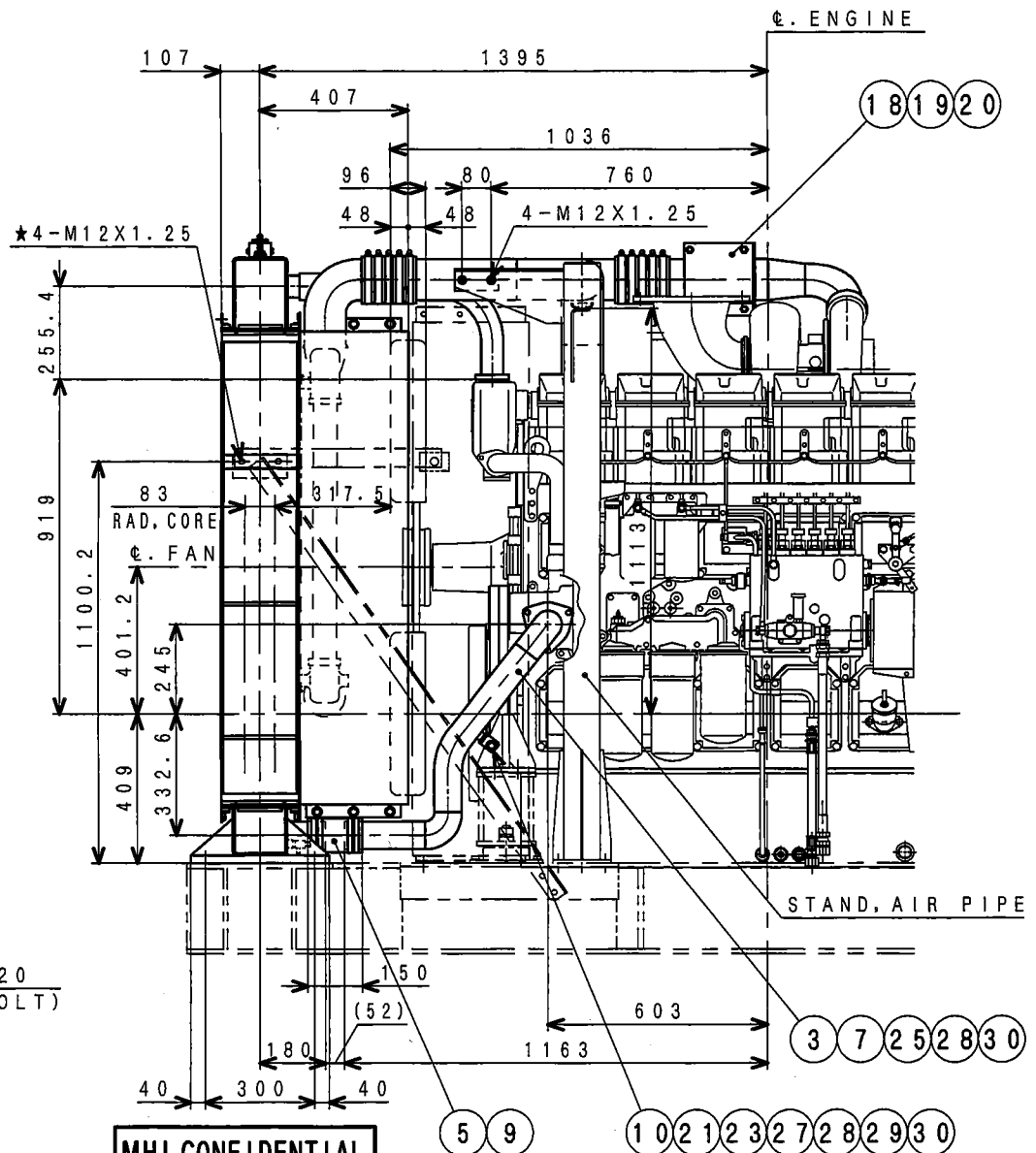
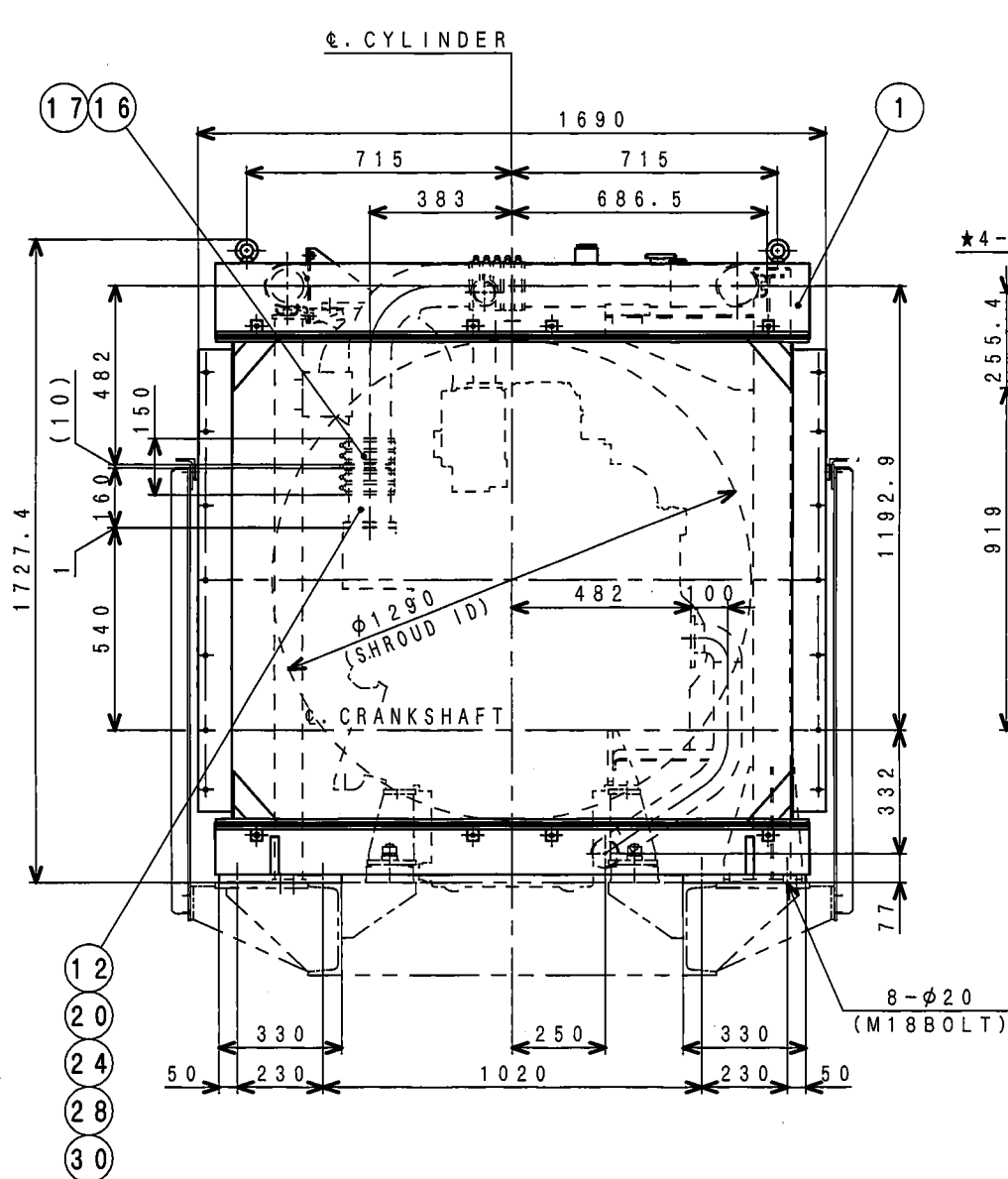
S6R2

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

3 新図 サイズ
 ① 旧引版 A 3 ② 組立図 2 鋼線図準品 3 板金溶接品 4 組立品
 5 切削品 6 その他(購入品)



NOTE (3) AIR PIPE STAND IS NOT SUPPLY FROM M. H. I.
SHOULD BE PREPARE BY D/G SET MANUFACTURER.

(3) 本図のエアパイプスタンドは、MHIからは供給しないのでD/Gセットメーカーにて製作手配を行うこと。

(2) 本図のRAD. I/C ASSY. 詳細図は、図番S33-4530を参照のこと。

注記 (1) 本図は、S6R2-PTAA/AIR TO AIR仕様のRADIATOR & AIR COOLER
パイピング図である。

MHI CONFIDENTIAL

4	4590-H432	'12.11.29	谷戸
3	4590-9619	'02.12.3	谷戸
2	4590-6655	'00.7.4	福田
1	4590-5984	'00.1.28	福田

CHG	EO-NO	DATE	CHK
松			福
下			田

3/4 ANGLE PROJECTION
尺規 SCALE

S6R2

RADIATOR 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.

図番番号
DRAWING No. 37596-47084

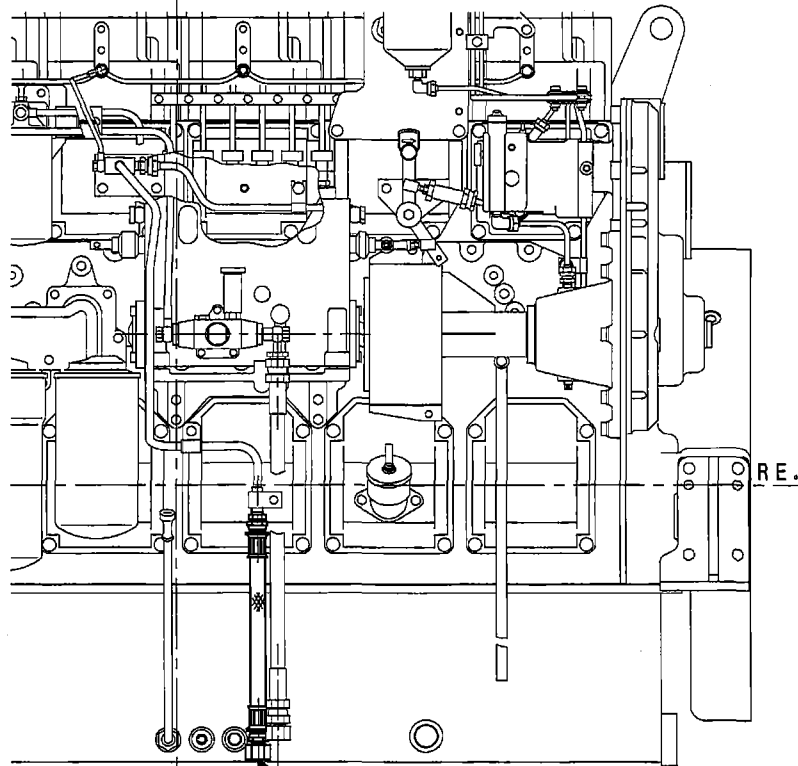
1/2

3 新図 4 訂正
1 旧図 A 3 1 組立図 2 鋼線管部品 3 板金部品 4 銅部品
5 切別品 6 その他(購入品)

M/C

☉. ENGINE

☉. CYLINDER



123.5
153

FUEL OUTLET PIPE JOINT
(Rc1/2)

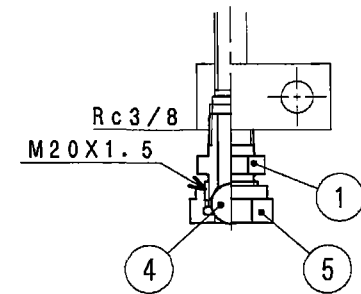
FUEL INLET PIPE JOINT
(Rc1/2)

417
387

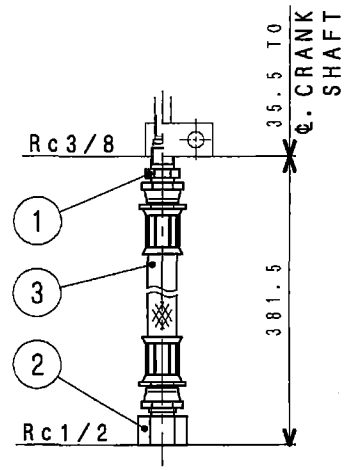
☉. CRANKSHAFT

IN
OUT

294
468



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

MHI CONFIDENTIAL

注記 (2) 本図の符号 (4)(5) は、燃料戻り口盲検である。(エンジン出荷状態)
(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。

CHG	EO-NO	DATE	CHK	製図 DRN
認可 APPD	橋 口	検図 CHK	三 谷 上 戸	浅沼
				2008.10.1

3rd ANGLE
PROJECTION
尺度 SCALE

S6R, S6R2
FUEL RETURN PIPING

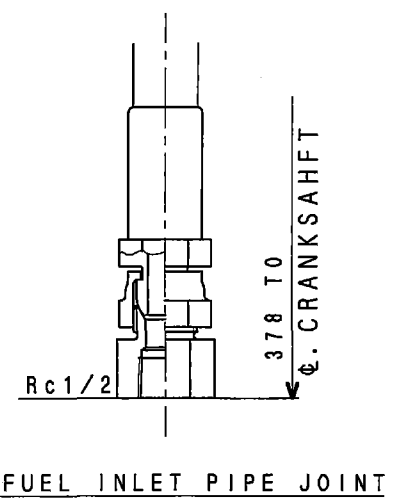
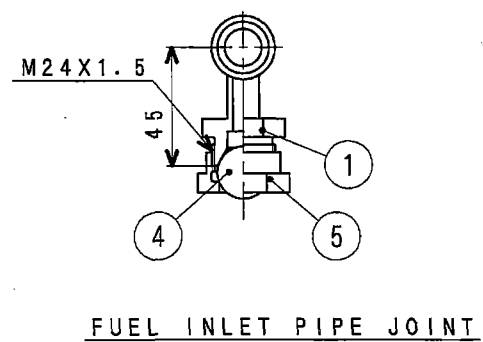
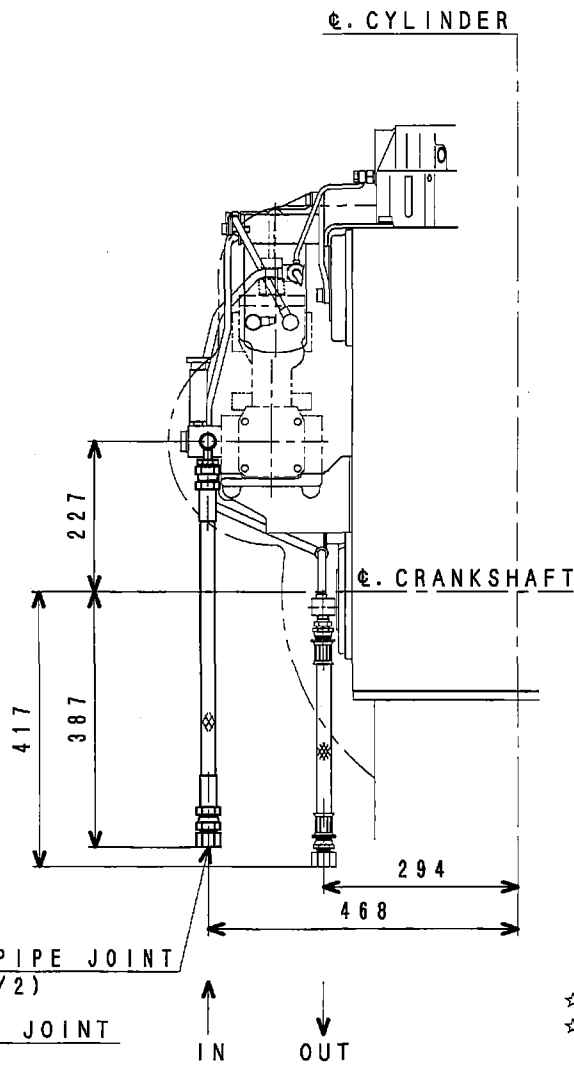
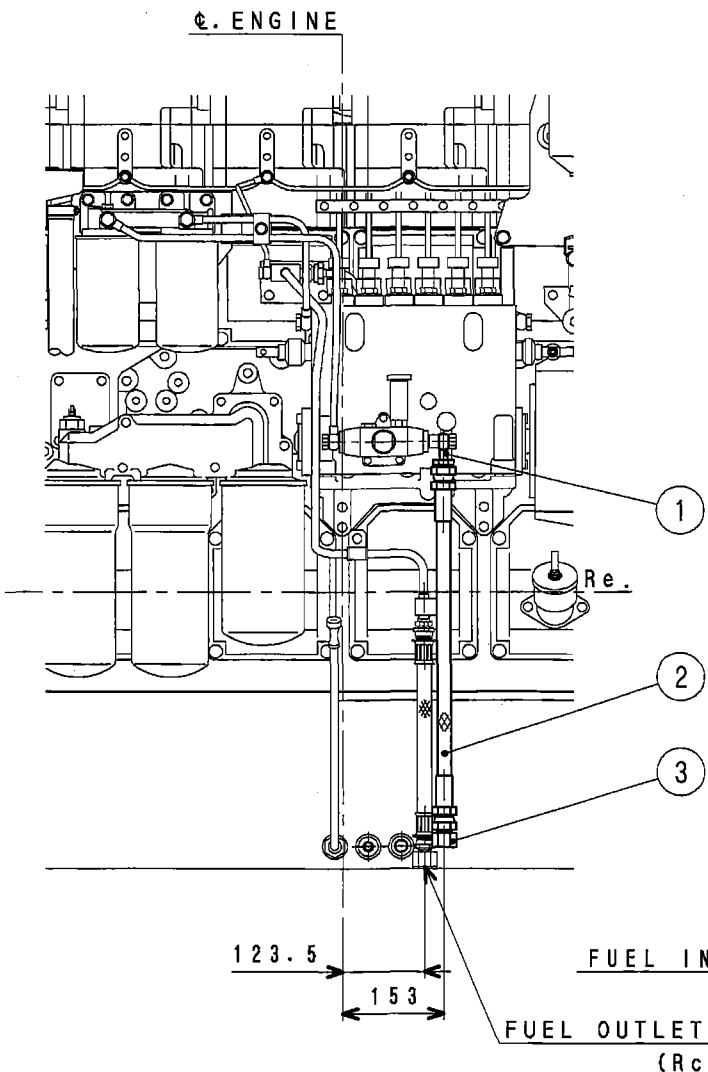
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号
DRAWING No. 37596-61312

出図
汎特
2008
10.10

FULL-CAD

① 新図 ② 訂正 ③ 組立図 ④ 鋼線網 ⑤ 鋼線網 ⑥ 板金捲品 ⑦ 組立品 ⑧ 切取品 ⑨ その他(購入品)



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

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)

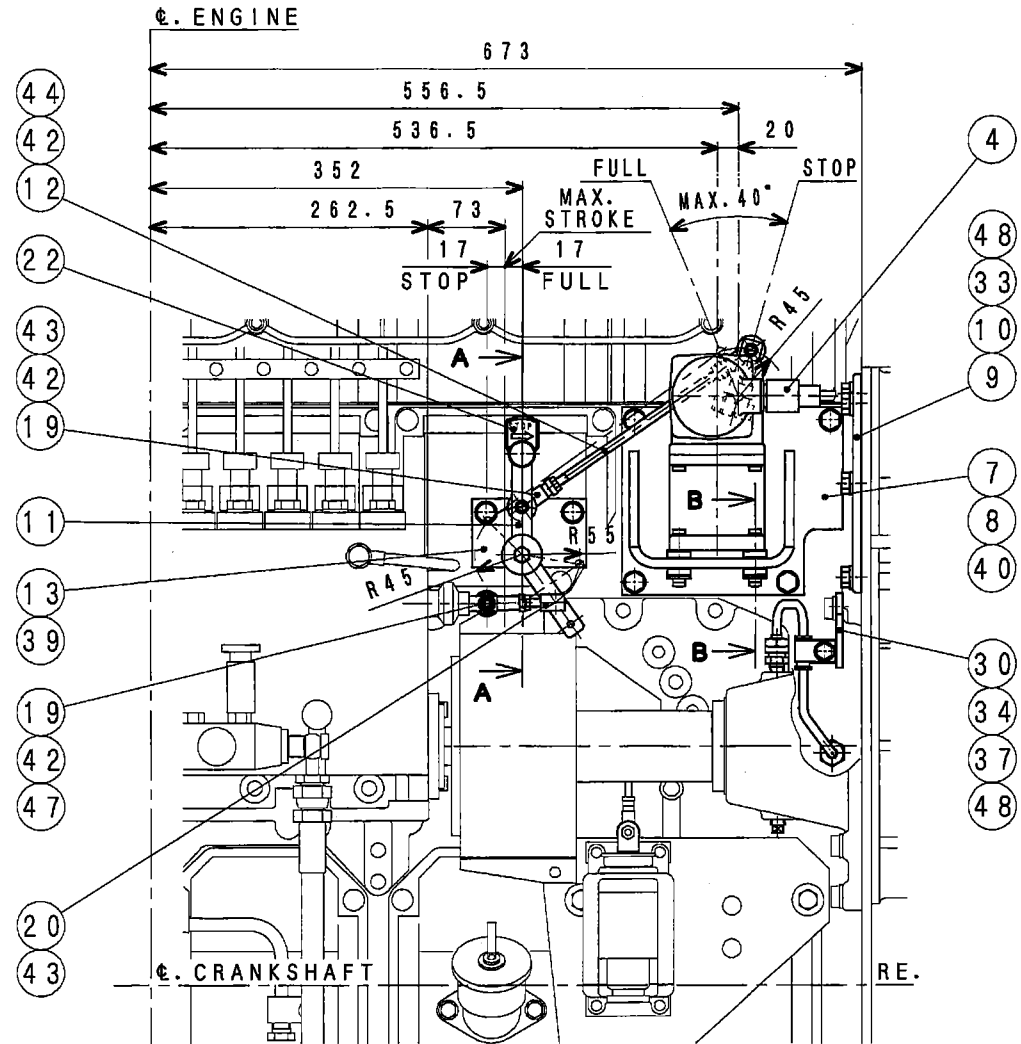
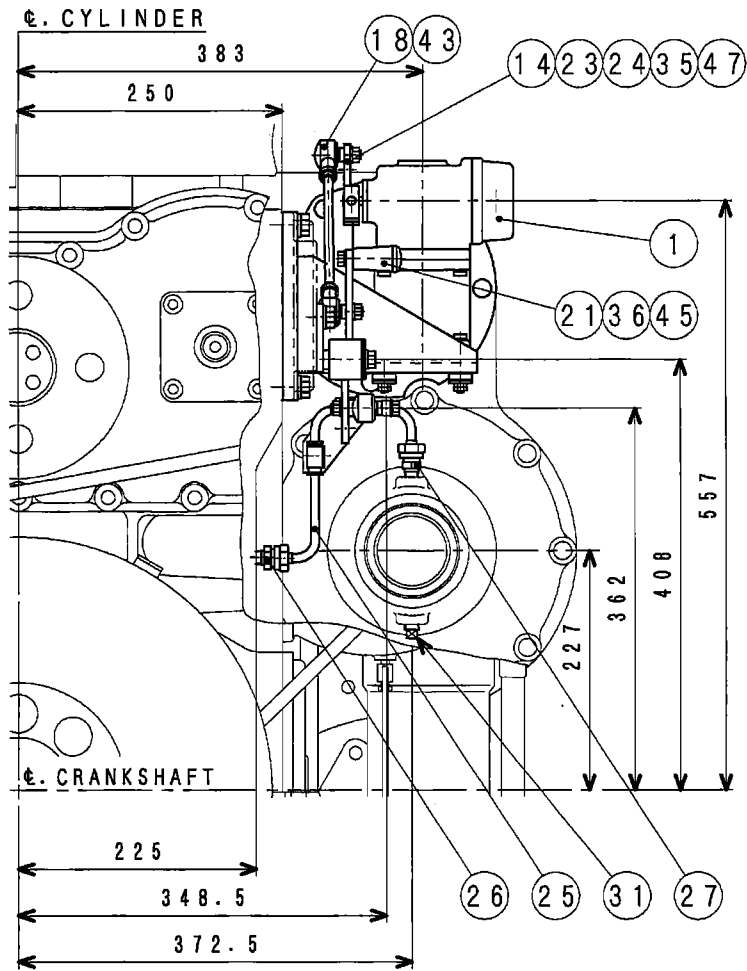
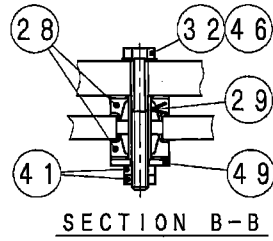
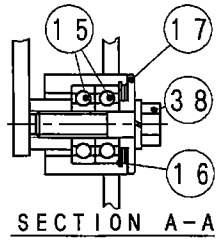
3rd ANGLE PROJECTION
 尺度 SCALE
 CHG EO-NO DATE CHK
 橋 三 谷 製 図 浅 沼
 APPD CHK DRN
 2008.10.1

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 37596-62112
 DRAWING No.

出図
 汎特
 2008
 10.10

FULL-CAD

③ 新図 サイズ A 3
 ④ 旧引図
 ① 組立図 2 鋼線鋼線品 3 板金溶接品 4 組立品
 5 切削品 6 その他(購入品)



注記 (1) 本図は、SG4017BR電子ガバナ(2線式)仕様である。

MHI CONFIDENTIAL

4590-E100 '08.11.21 齊藤		3rd ANGLE PROJECTION 尺貫 SCALE	
4590-4939 '99. 2.11 谷戸			
CHG	EO-NO	DATE	CHK
認可 APPD	橋	検図 CHK	竹 福 製図 DRN 谷 銅 戸 島
	橋	竹 福	1998. 3. 2

S6R, S6R2
GOVERNOR

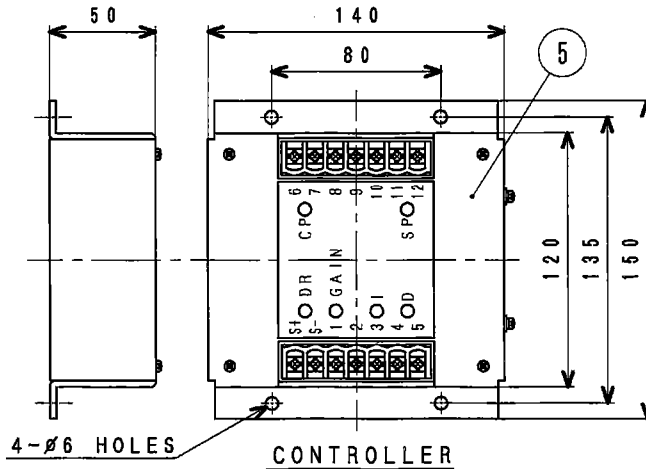
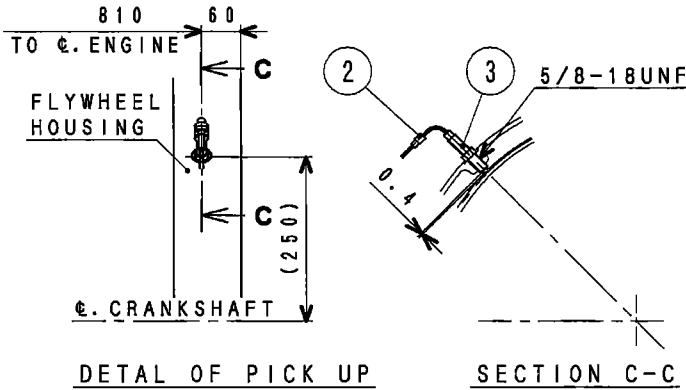
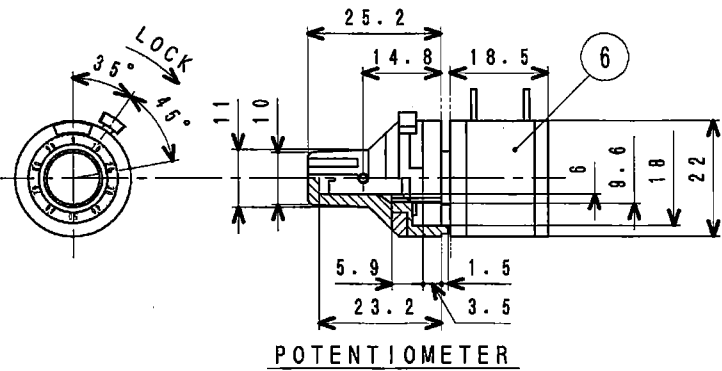
三菱重工業株式会社 汎用機・特車事業本部
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 37596-63016 1/2
DRAWING No.

3 新図 サイズ A 3
① 旧図
② 組立図
2 鋼線鋼車品
5 切削品
3 板金溶接品
6 その他(購入品)
4 組立品

旧引
汎特
2009
3.24

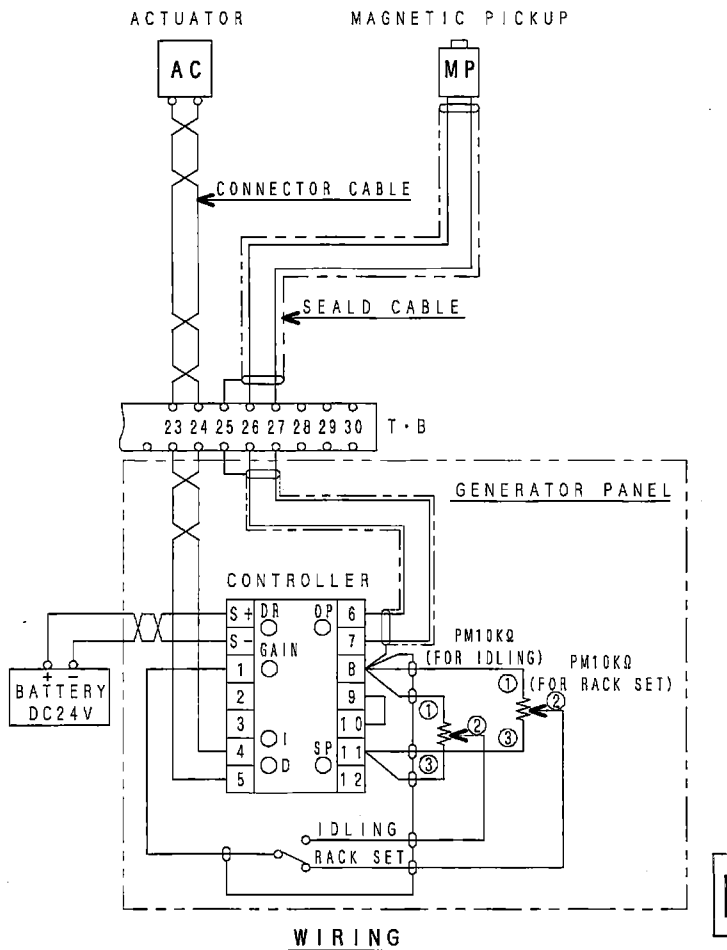
FULL-CAD



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

No.	PARTS NO.	PARTS NAME	Q'TY
49	08302-06000	WASHER	4
48	F2515-12000	WASHER, SPRING	4
47	F2515-08000	WASHER, SPRING	2
46	F2515-06000	WASHER, SPRING	4
45	F2500-08000	WASHER, PLAIN	1
44	09413-00800	NUT, LOCK	1
43	F2445-08000	NUT	3

42	F2320-08000	NUT	2	
41	F2320-06000	NUT	8	
40	F1805-12035	BOLT	4	
39	F1805-12025	BOLT	2	
38	F1805-10040	BOLT	1	
37	F1805-10016	BOLT	1	
36	F1805-08020	BOLT	1	
35	F1115-08025	BOLT	1	
34	F1035-12050	BOLT	1	
33	F1035-12045	BOLT	4	
32	F1035-06055	BOLT	4	
31	F5006-13000	PLUG, TAPER	1	
30	37536-04900	STAY, PIPE	1	
29	47500-34200	SPACER	4	
28	47500-34100	CUSHION, RUBBER	8	
27	F4540-08000	CONNECTOR	1	
26	47500-55701	CONNECTOR	1	
25	37536-68700	PIPE, OIL	1	
24	35A61-19900	WIRE, SEAL	1	
23	48000-96600	SEAL	1	
22	45940-30201	PLATE, CAUTION	1	
21	51776-03000	GRIP	1	
20	37563-15401	JOINT, BALL (M8-R)	1	
19	35A61-38601	JOINT, BALL (M8-R)	2	
18	35A61-38701	JOINT, BALL (M8-L)	1	
17	32561-18300	PLATE, END	1	
16	F3202-03000	RING, SNAP	1	
15	F8007-06200	BEARING, BALL	2	
14	47500-34501	LEVER, CONTROL	1	
13	37563-04102	BRACKET, LEVER PSG	1	
12	05902-08210	ROD	1	
11	47500-32200	LEVER, RACK CONTROL	1	
10	05507-21450	O-RING	1	
9	47500-39901	COVER	1	
8	37507-04900	PACKING	1	
7	47500-33900	BRACKET, ACTUATOR	1	
6	04410-33700	POTENTIOMETER	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	



MHI CONFIDENTIAL

CHG APPD	EO-NO	換図CHK	DATE	CHK
	4590-E100		'08.11.21	齊藤
	4590-4939		'99.2.11	谷戸
		橋		
		竹谷		
		福田		
		観園DRN		
		可		
		1998.3.2		

S6R, S6R2
GOVERNOR

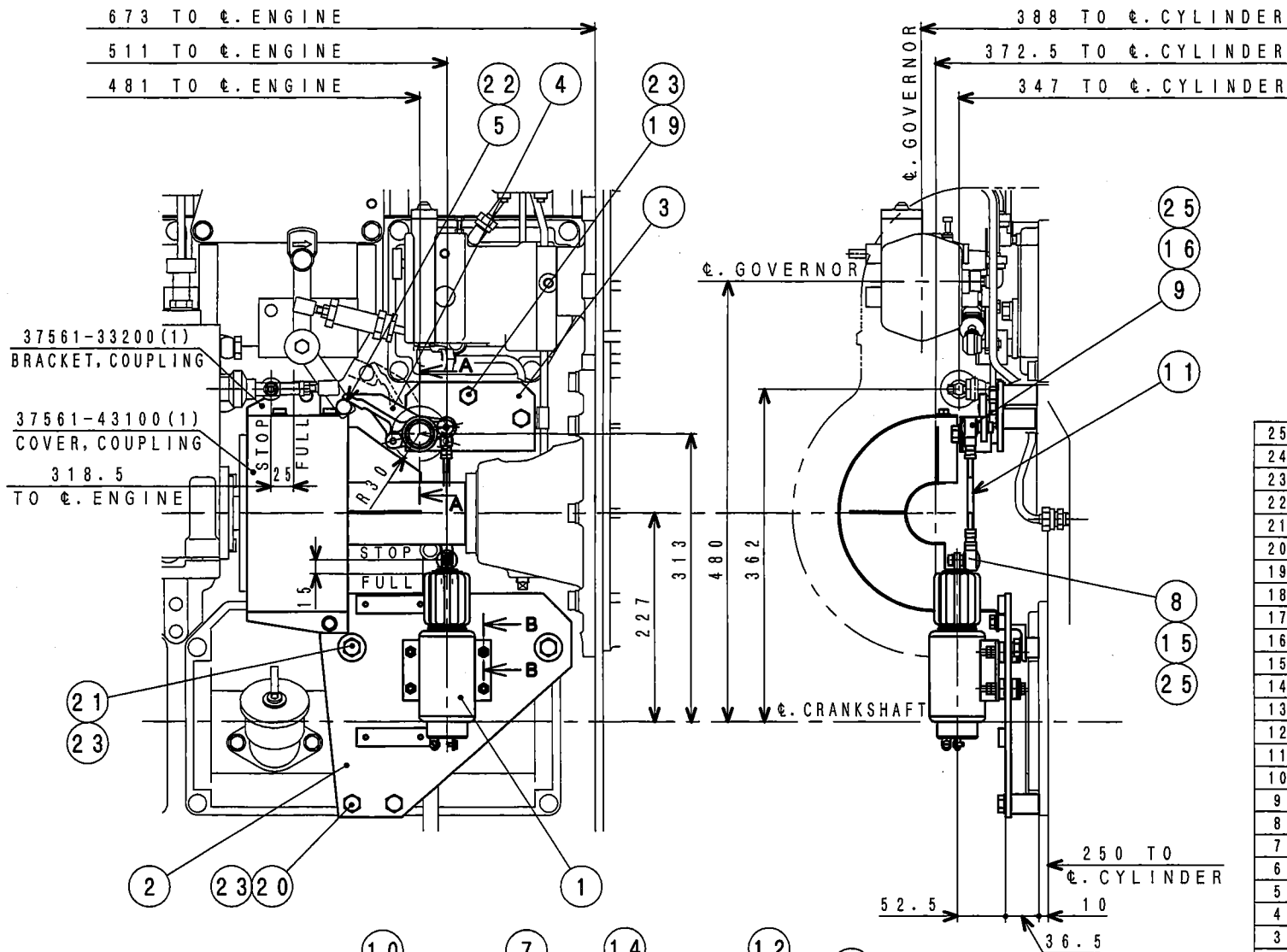
三菱重工業株式会社 汎用機・特車事業本部
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号
DRAWING No. 37596-63016 2/2

3 新図 サイズ A 3
② 旧引図
① 組立図
2 納品標準品
5 切削品
3 板金標準品
6 その他(購入品)
4 組立品

旧引
汎特
2009
3.24

FULL-CAD



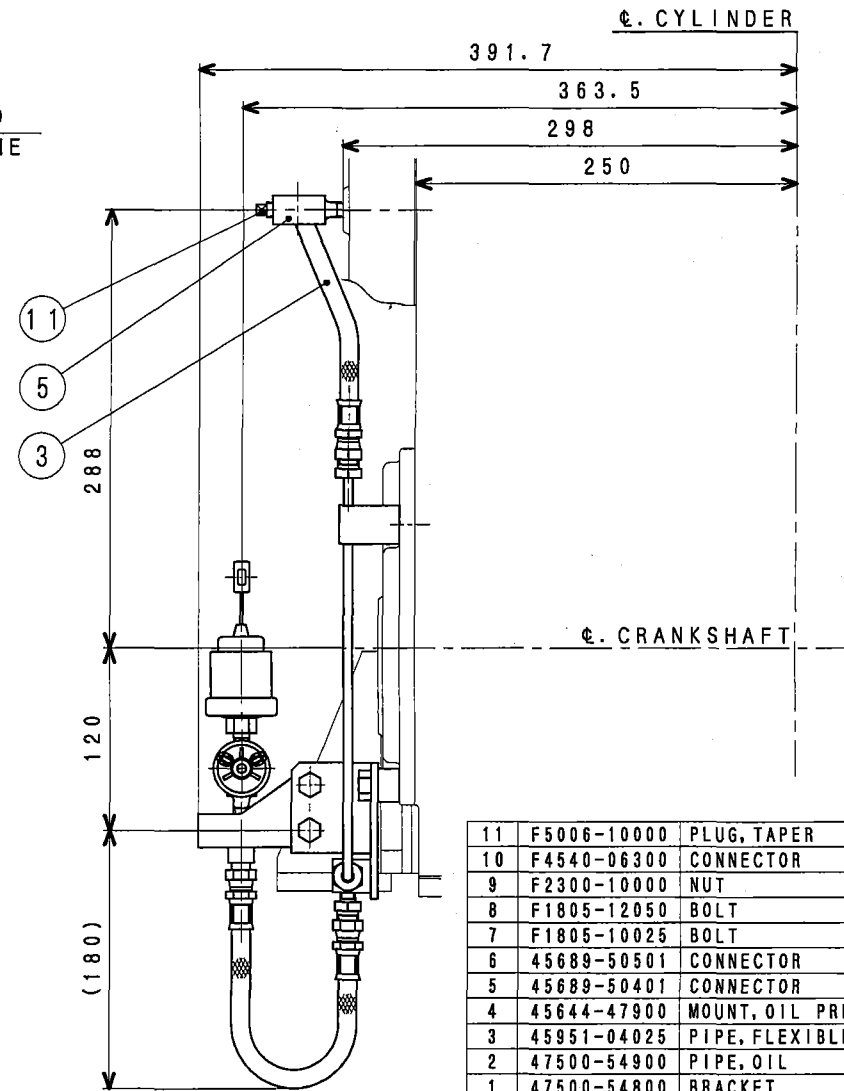
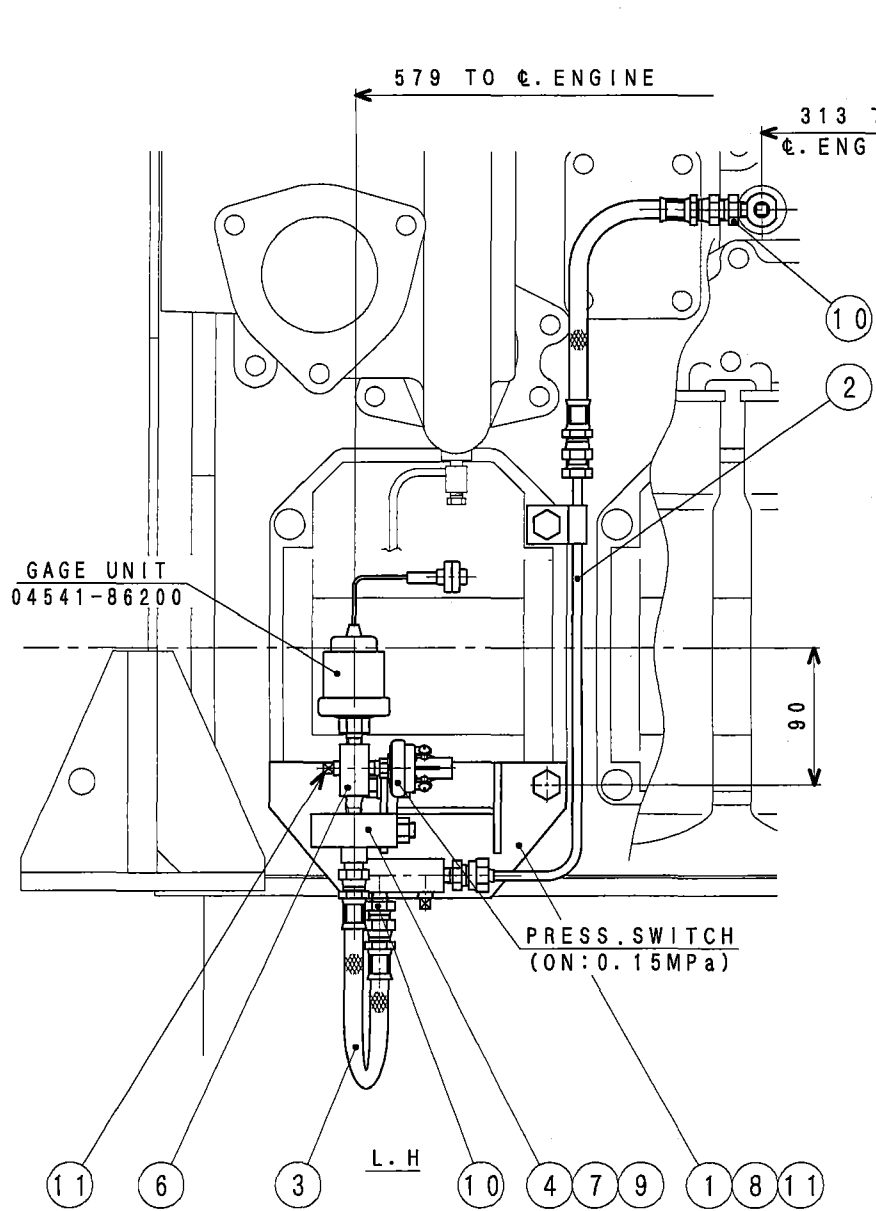
25	05634-00610	NUT, SELF LOCKING	2
24	08302-06000	WASHER	4
23	F2515-12000	WASHER, SPRING	6
22	F2515-06000	WASHER, SPRING	5
21	F1035-12050	BOLT	2
20	F1035-12070	BOLT	2
19	F1035-12075	BOLT	2
18	F1805-10040	BOLT	1
17	F1035-06045	BOLT	4
16	09413-00600	NUT	1
15	F2320-06000	NUT	1
14	F2300-06000	NUT	8
13	47500-36700	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	47500-36601	BRACKET, SOLENOID	1
1	04400-08800	SOLENOID, RUN-ON	1
NO.	PARTS NO.	PARTS NAME	Q'TY

MHI CONFIDENTIAL

4	4590-C246	'06. 7.28	齊藤	3rd ANGLE PROJECTION 尺度 SCALE
3	4590-8147	'01. 8. 9	福田	
6	4590-H433	'12.11.29	谷戸	
5	4590-F454	'09. 5.19	浅沼	
CHG	ED-NO	DATE	CHK	
認可 APPD	検図 CHK	製図 DRN	谷戸 齊藤	
橋口	竹谷	福田	1997. 8. 21	

S6R, S6R2
STOP SOLENOID
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 37596-87502
DRAWING No. 37596-87502

注記 (2) 本図のソレノイドは、シンクロスタート製である。
(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。



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

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注記 (1) 本図は、油圧センサー及びスイッチ（一段）のラバースタンプ装着標準図である。

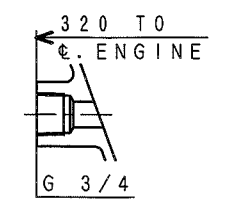
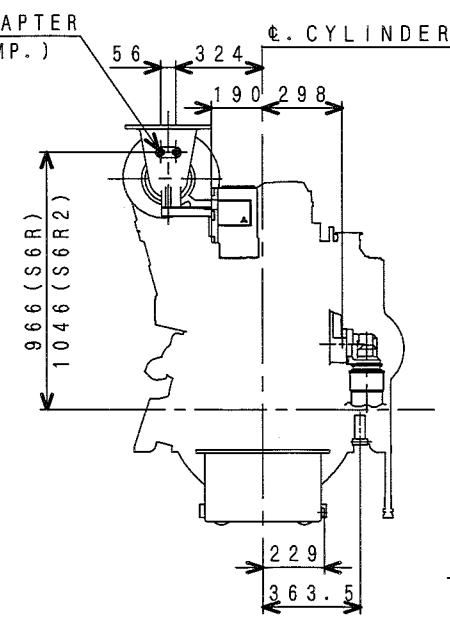
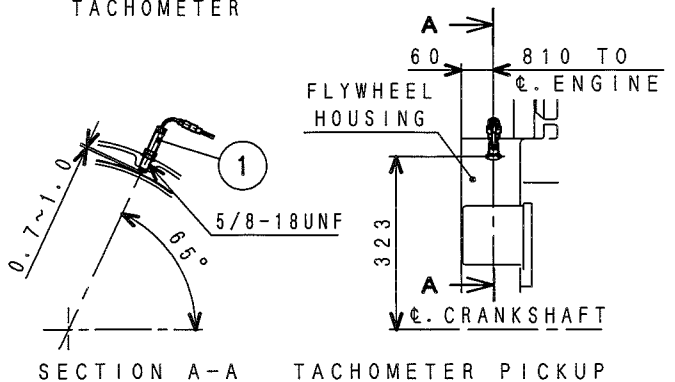
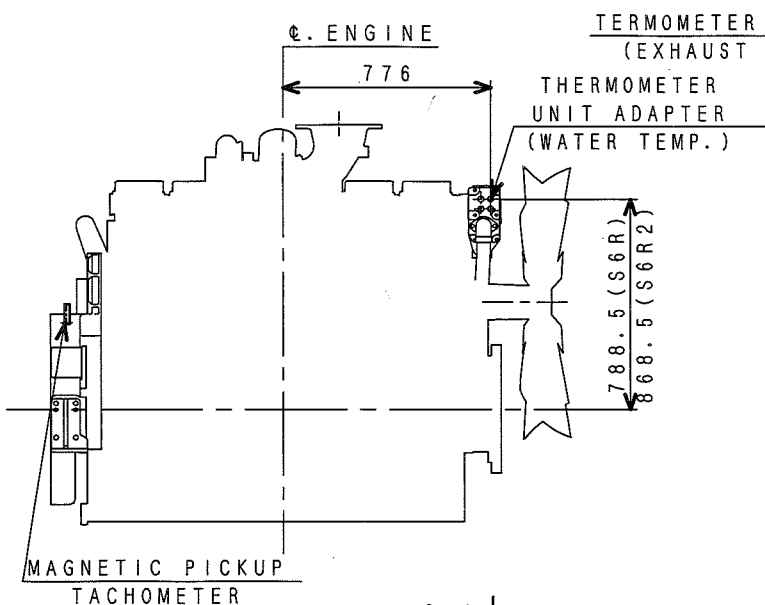
3	4590-G839	'11.12.15	浅沼	3rd ANGLE PROJECTION 尺度 SCALE
2	4590-E742	'08. 8.29	斎藤	
1	4590-C283	'06. 7.11	斎藤	
CHG	ED-NO	DATE	CHK	
認可 APPD	橋	検図 CHK	塚 中	製図 谷 青
			本 村	DRN 戸 藤
				2002.12.11

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 37596-90142
DRAWING No. 3

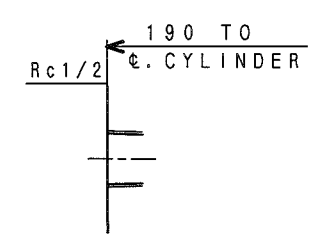
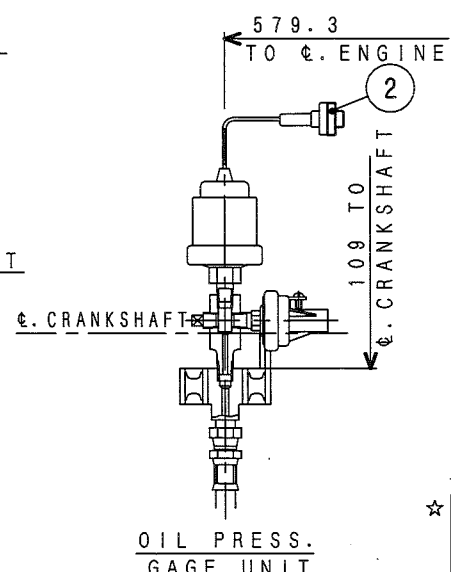
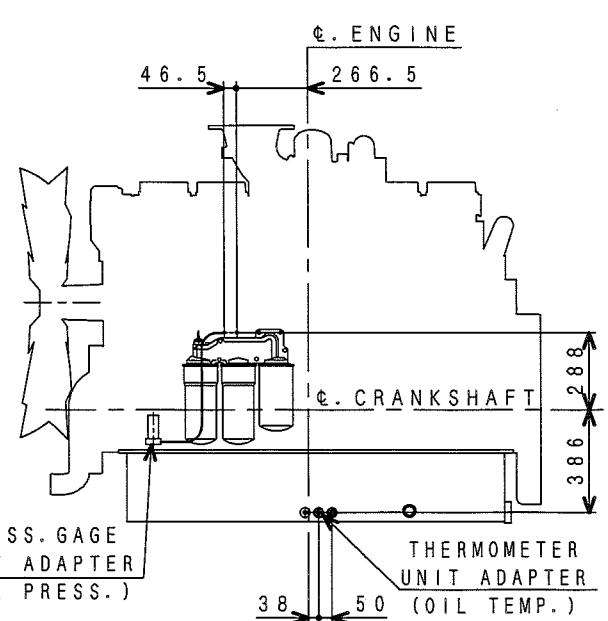
旧引
汎特
2011
12.23

M/C

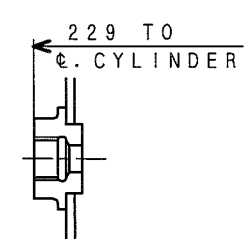
3 新図 サイズ A 3
① 旧引図
② 相立図
1 脚跡線画
5 切別品
3 板金溶接品
6 その他(購入品)
4 相立品



THERMOMETER JOINT (EXHAUST TEMP.)



THERMOMETER UNIT ADAPTER (WATER TEMP.)



THERMOMETER UNIT ADAPTER (OIL TEMP.)

MHI CONFIDENTIAL

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

No.	PARTS NO.	PARTS NAME	Q'TY
☆ 2	MH052-231	CONNECTOR	1
☆ 1	04410-43410	PICK UP	1

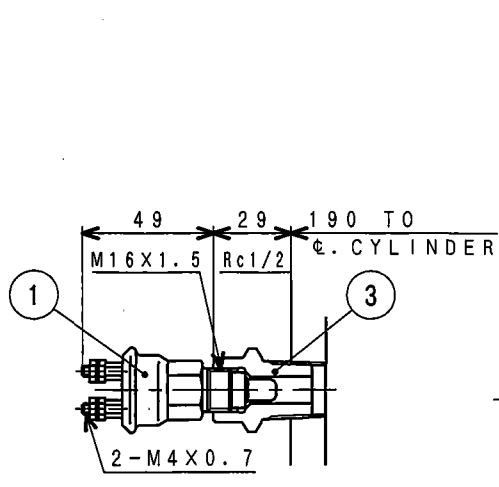
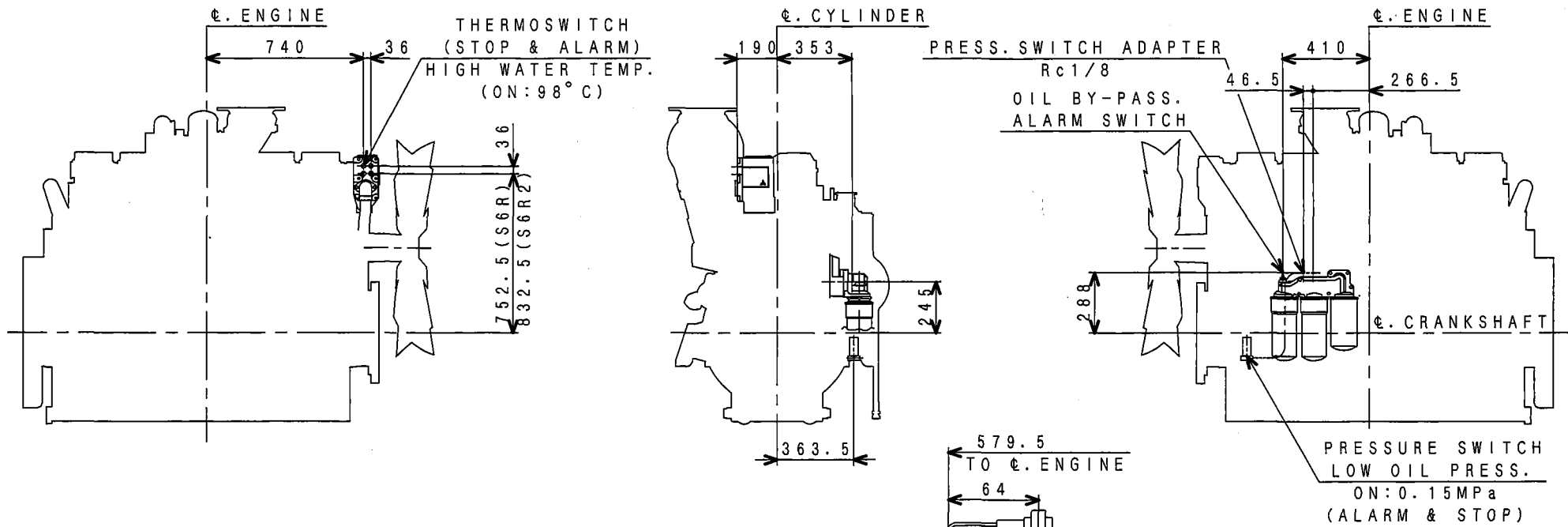
注記 (1) 本図の油圧センサー装着用ラバーマウントバイピンダー式は、図番37596-90142を参照のこと。

CHG	ED-NO	DATE	CHK
認可 APPD	橋	検図 CHK	塚 中 村
製図 DRN	谷 戸	2002.12.11	

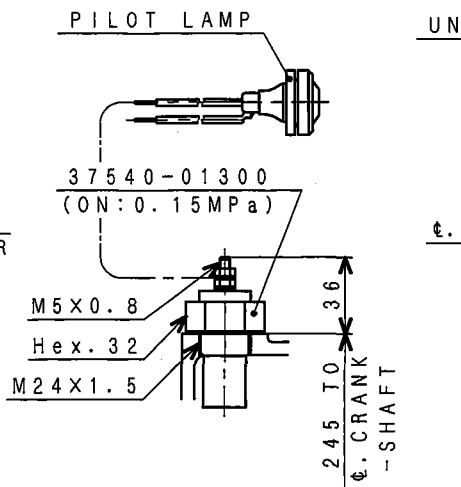
S6R, S6R2
 METER & SENSOR
 三菱重工業株式会社 汎用機・特車事業本部
 MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.
 図面番号 37596-90151

① 新図 ② 訂正 ③ 組立図 ④ 部品表
 ⑤ 旧引図 ⑥ A 3 ⑦ 組立図 ⑧ 5 切別品 ⑨ 3 板金溶接品 ⑩ 4 組立品 ⑪ 6 その他(購入品)

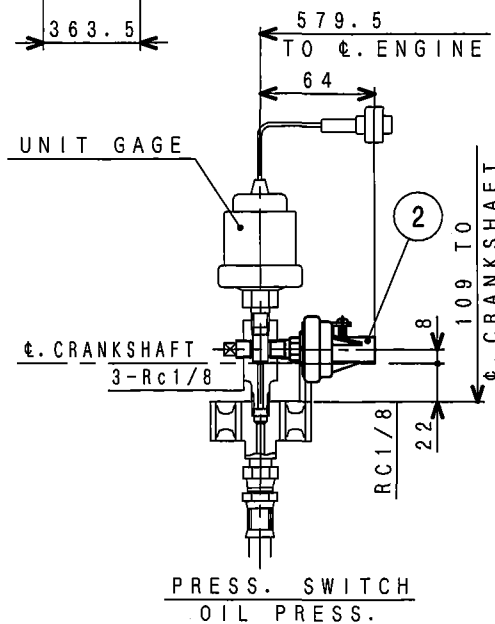
M/C



THERMOSWITCH
WATER TEMP.



OIL BY-PASS ALARM SWITCH



PRESS. SWITCH
OIL PRESS.

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°C ON	1

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

CHG	EO-NO	DATE	CHK
△	4590-G590	'12.11.29	谷戸
△	4591-0412	'03.11.18	福田

認可 APPD 橋口
検図 CHK 松 福 製図 谷 音
下 田 戸 廉
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.

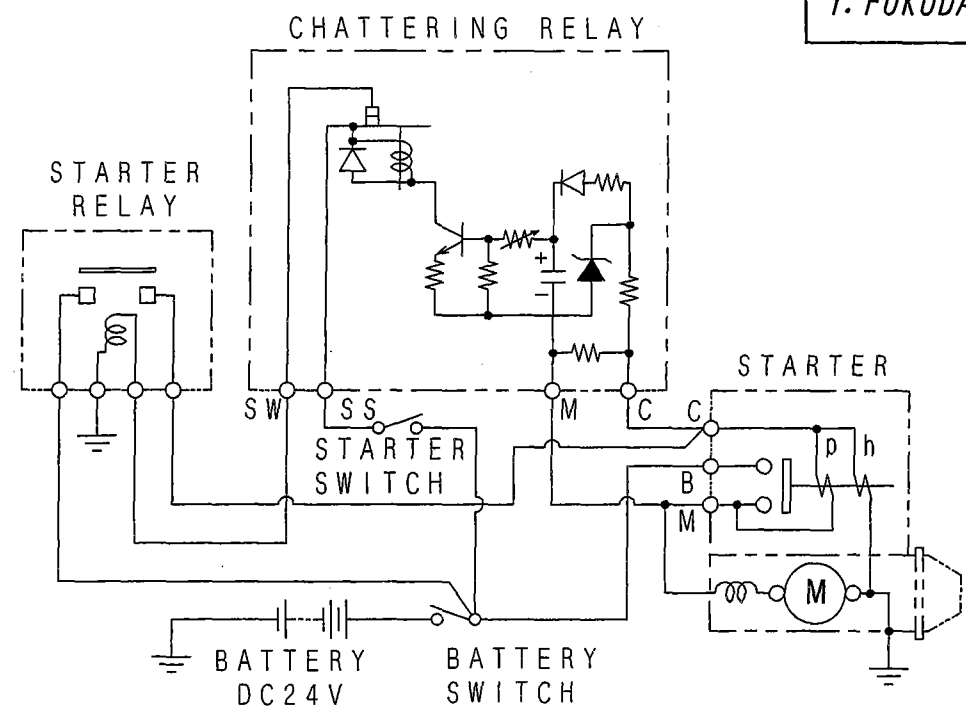
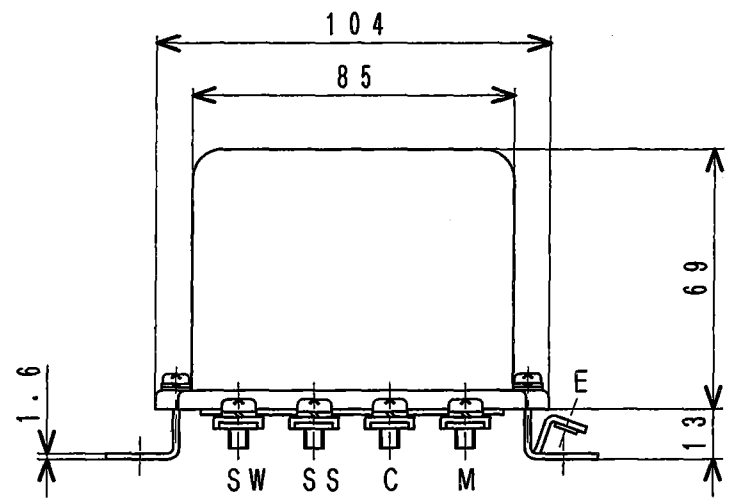
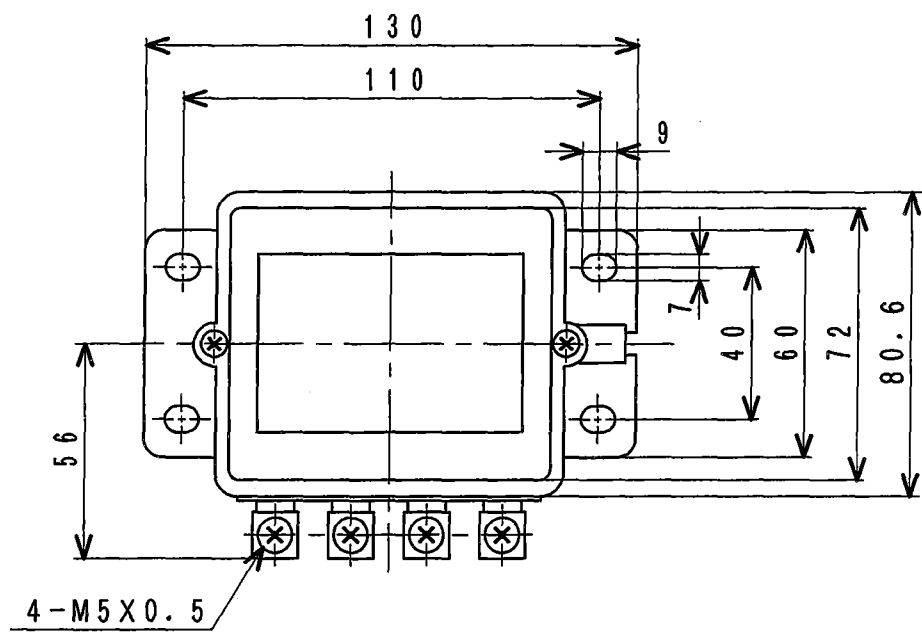
図番 37596-90240
DRAWING No.

3 新図 1/3 ① 組立品 2 納品書 3 検査簿 4 組立品
② 旧図 A 3 5 切開品 6 その他(購入品)

M/C

CHECKED BY

Y. FUKUDA



WIRING

SPECIFICATION	
RATING VOLTAGE	DC24V
CONTACTOR CAPACITY	5A
RATED TIME	2min
USE	CHATTERING FOR STARTER PINION
WEIGHT	0.55kg

MHI CONFIDENTIAL

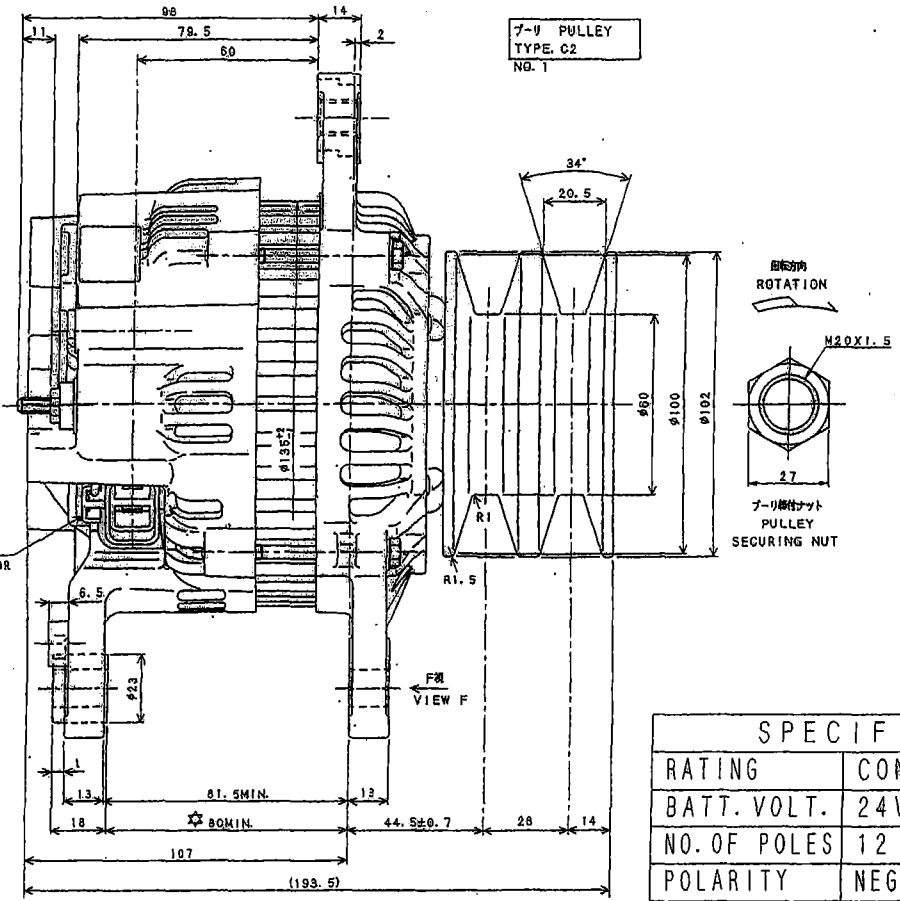
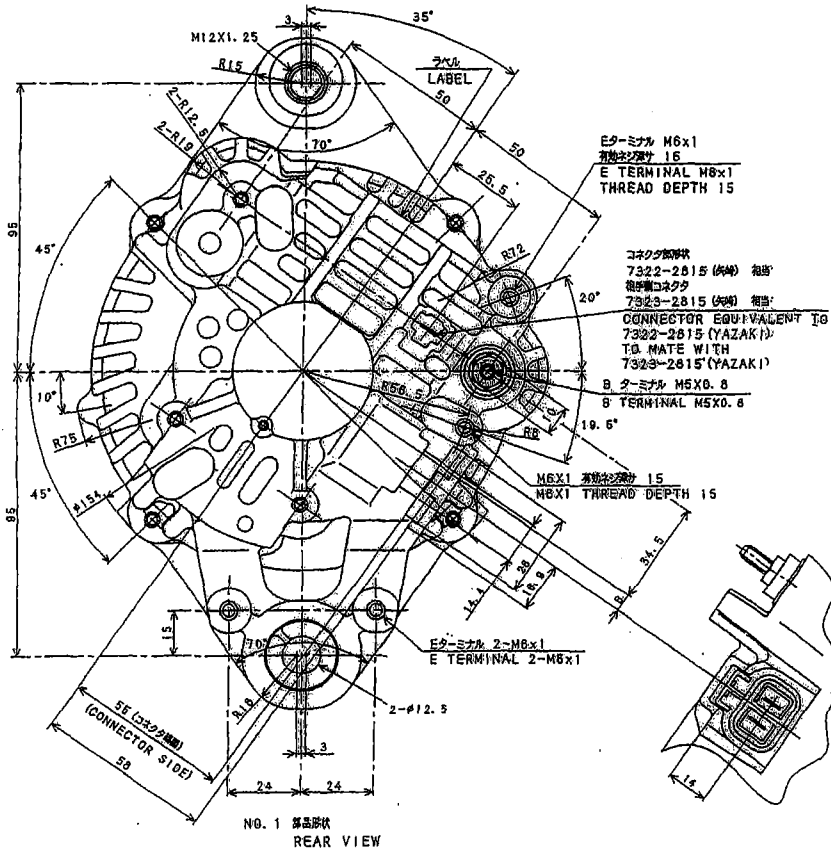
2	'08.6.5
1	'93.2.11
REV.	DATE

CHATTERING RELAY
PART NO. 04322-50001

DWG. NO. S10-0052
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY

K. YATO



ターミナル M6x1
有効深さ 15
E TERMINAL M6x1
THREAD DEPTH 15

コネクタ部形状
7322-2815 (欠) 組立
組立用コネクタ
7323-2815 (欠) 組立
CONNECTOR EQUIVALENT TO
7322-2815 (YAZAKI)
TO MATE WITH
7323-2815 (YAZAKI)

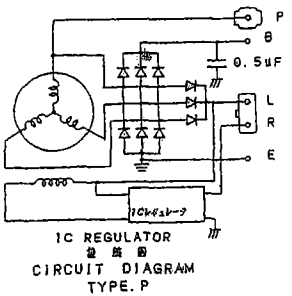
B ターミナル M5x0.8
B TERMINAL M5x0.8

M6x1 有効深さ 15
M6x1 THREAD DEPTH 15

ターミナル 2-M6x1
E TERMINAL 2-M6x1

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

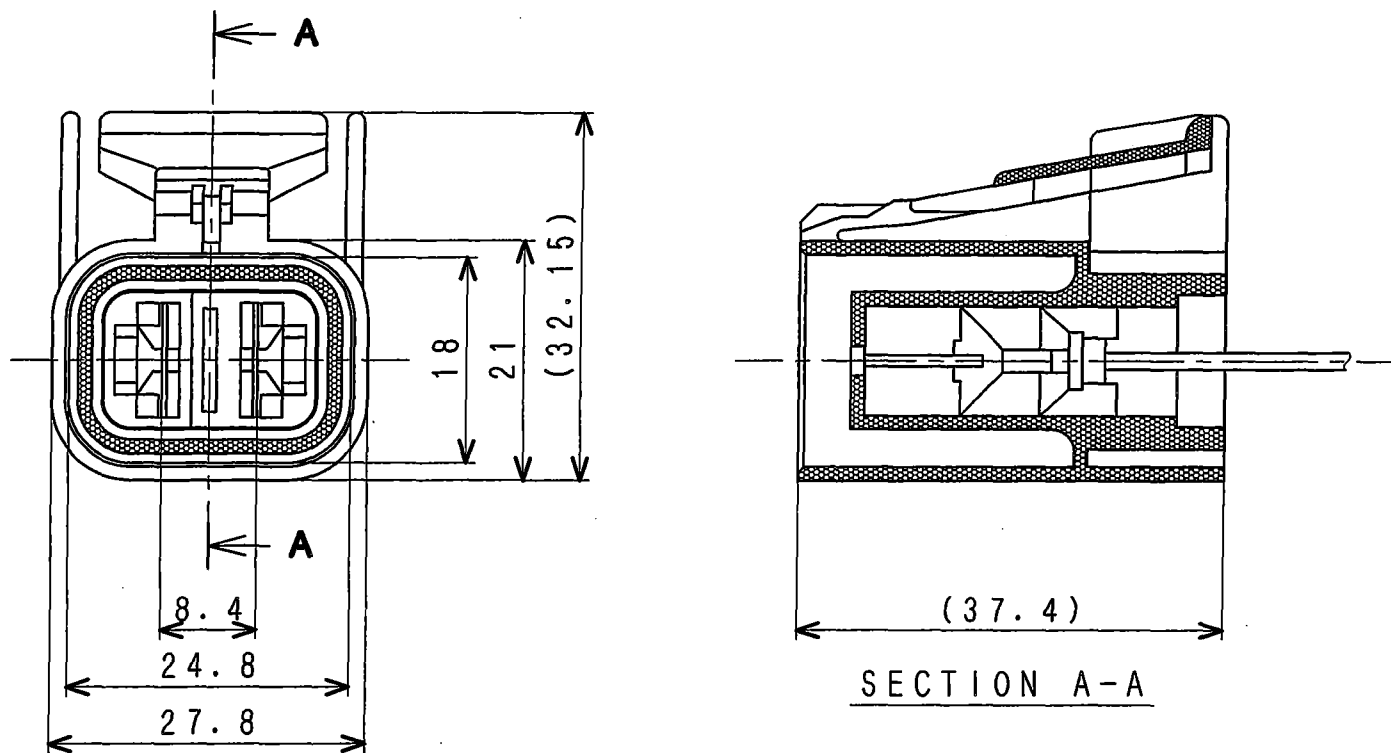
MHI CONFIDENTIAL



REV.	DATE	ALTERNATOR, W/O EXCIT PART NO, 04343-38000
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DWG. NO. S10-0540
 MITSUBISHI HEAVY INDUSTRIES, LTD.
 GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA



本部品は、矢崎品番7323-6228-30相当品である。

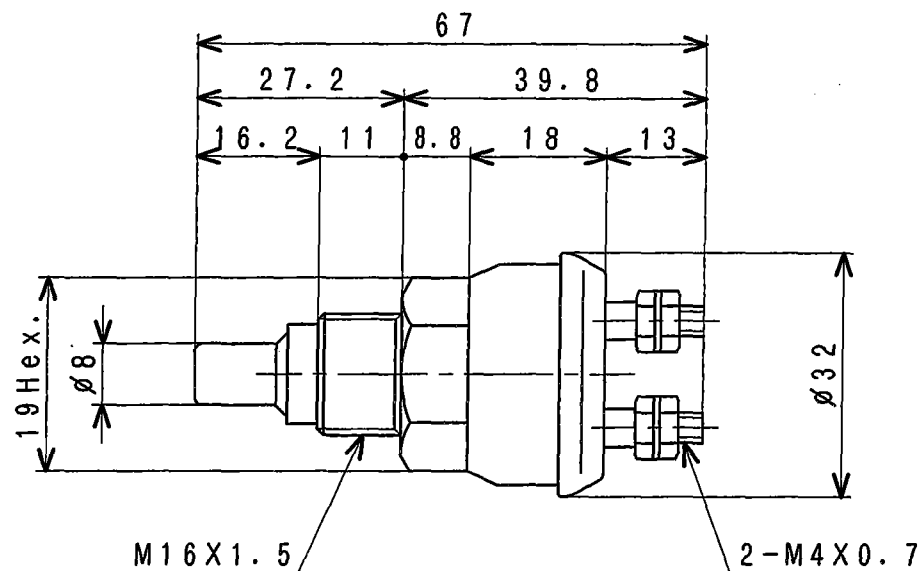
MHI CONFIDENTIAL

△	
△	
△	
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. (°C)		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±2	94±2		

MHI CONFIDENTIAL

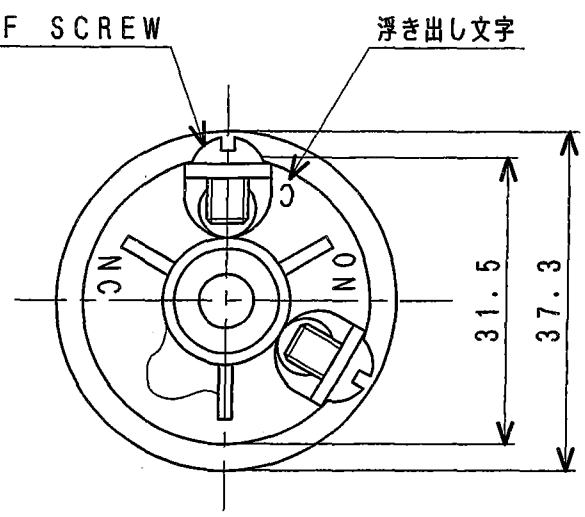
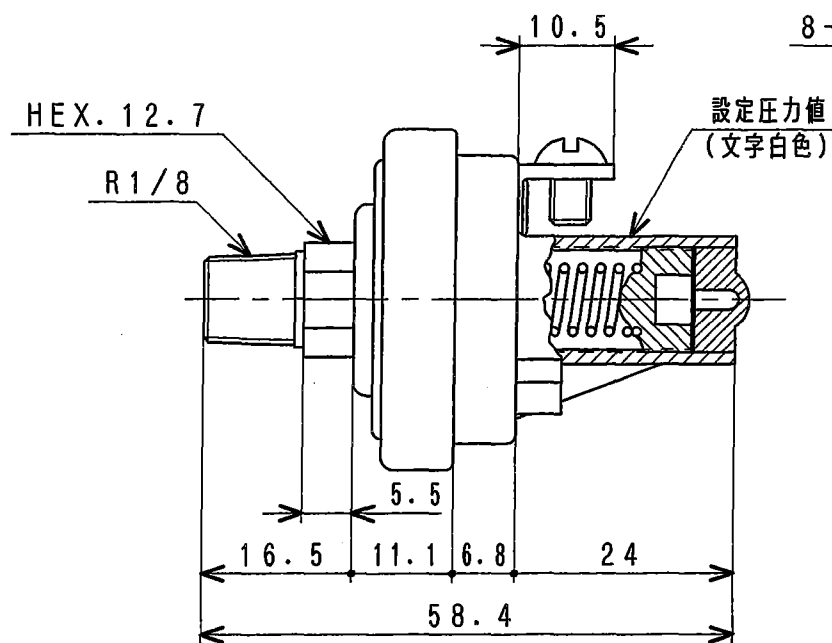
6	'00.4.26
8	'08.6.5
7	'06.3.17
REV.	DATE

THERMO SWITCH

DWG. NO. S11-0551

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

CHECKED BY
Y. FUKUDA



5. ON-OFF差 : 5%以内
 4. 接点形式 : (NO) (NC)
 3. 使用温度範囲 : -40.0℃~+120.0℃
 2. 定 格 : 6VDC-15AMP, 12VDC-8AMP, 24VDC-4AMP,
 120VAC-1AMP, 240VAC-0.5AMP
 最小電流値: 0.05A
 仕様 1. 最高許容圧力 : 1.05MPa (設定圧: 0.007~0.17MPa)
 1.75MPa (設定圧: 0.18~1.05MPa)

NO	04442-46500	0.15	±0.015
NO	04442-46400	0.10	±0.01
NO	04442-46300	0.05	±0.005
NC	04442-46100	6.2KPa	±0.62KPa
NC	04442-45900	0.40	±0.04
NC	04442-45800	0.35	±0.035
NC	04442-45700	0.30	±0.03
NC	04442-45600	0.25	±0.025
NC	04442-45500	0.22	±0.022
NC	04442-45400	0.15	±0.015
NC	04442-45300	0.10	±0.01
NC	04442-45200	0.05	±0.005
NC	04442-45100	0.03	±0.003
接点形式	PARTS NO.	ON	ALLOWANCE
		SET PRESS. MPa	

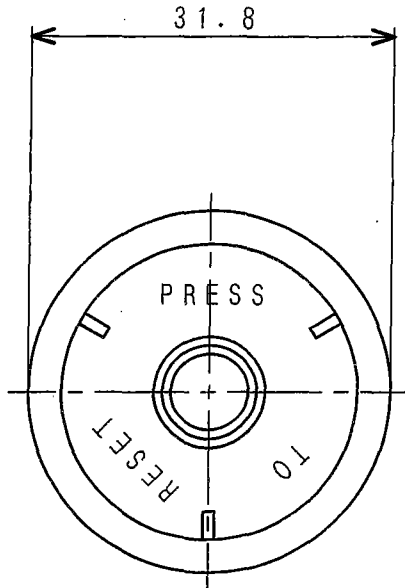
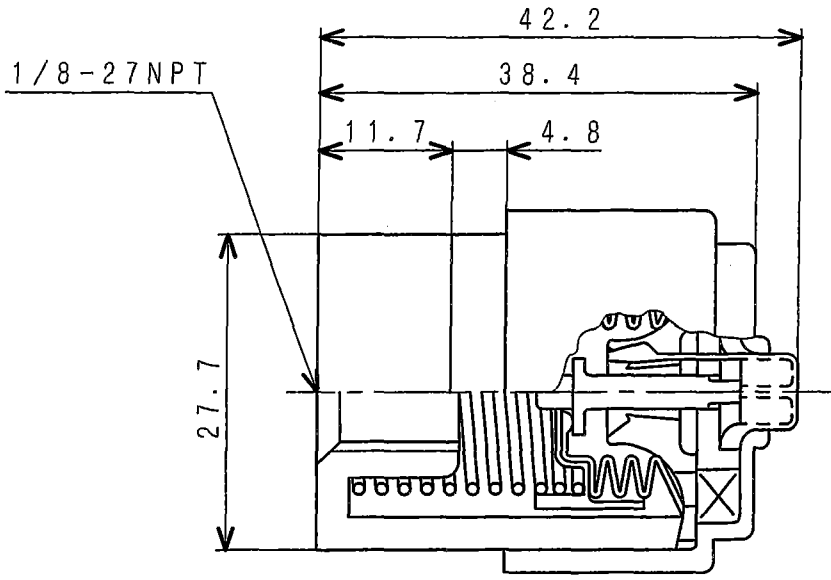
MHI CONFIDENTIAL

2	'08.6.5
1	'06.3.17
REV.	DATE

SWITCH, PRESS

DWG. NO. S11-0796
 MITSUBISHI HEAVY INDUSTRIES, LTD.
 GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA



PARTS NO.	RESTRICTION (mmH ₂ O)
47220-30701	762±58
47220-34301	508±48
47220-34401	635±58

MHI CONFIDENTIAL

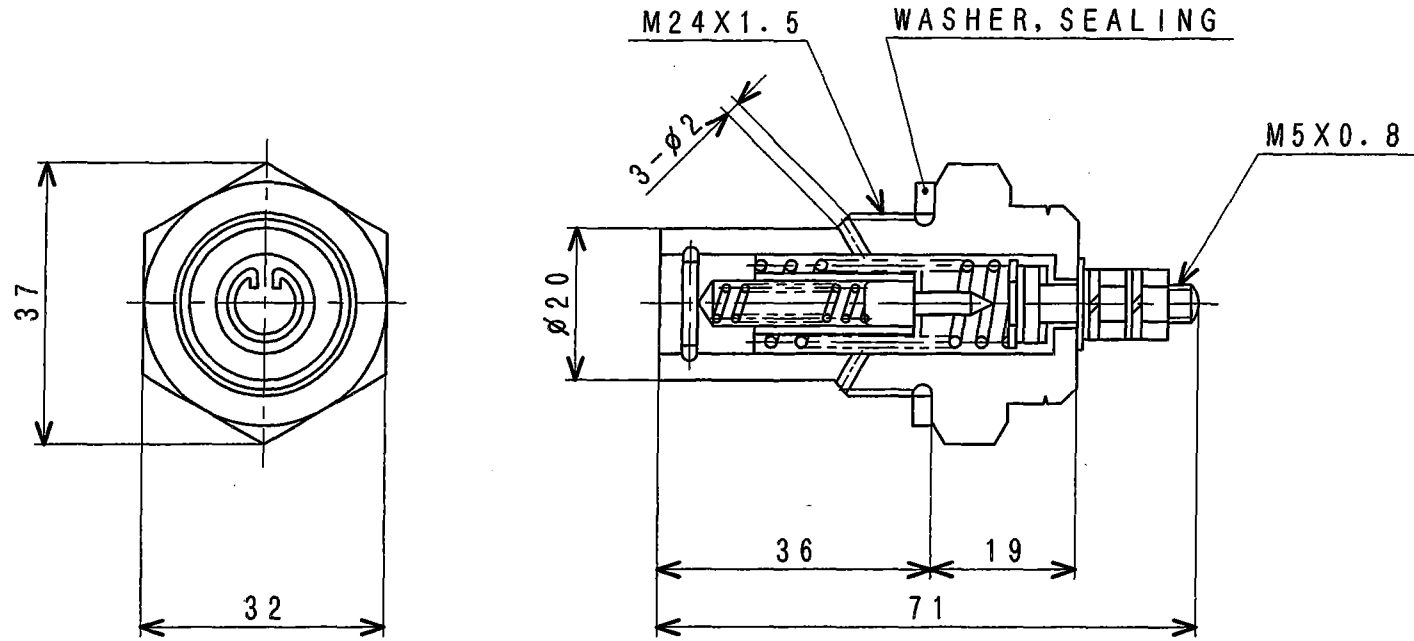
△	
△	
1	'93 2/18
REV.	DATE

INDICATOR

DWG. NO. S11-0920
 MITSUBISHI HEAVY INDUSTRIES, LTD.
 GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY

中村



SET PRESS. 0.15MPa

MHI CONFIDENTIAL

△	
△	
↑	'08.6.6
REV.	DATE

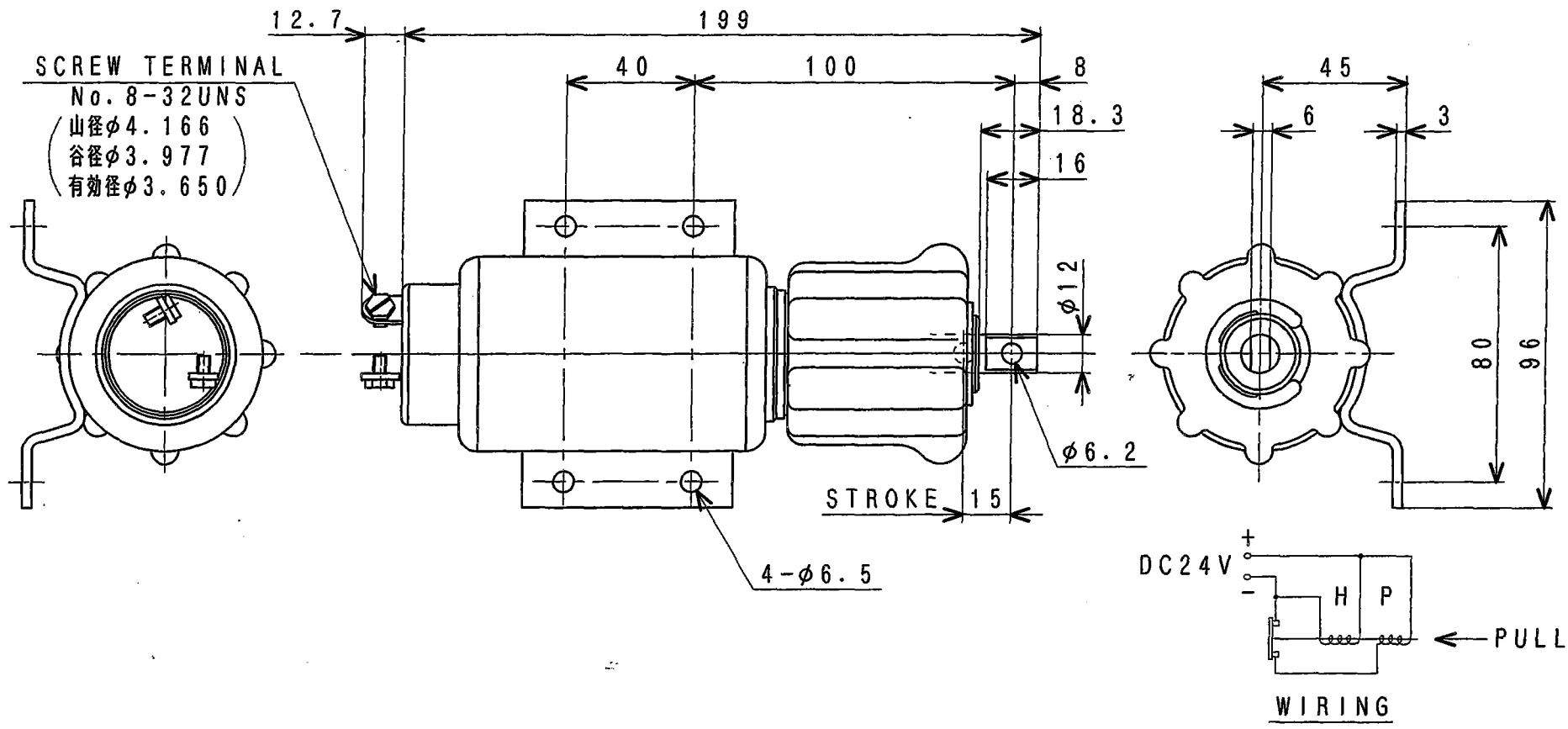
ALARM, OIL FILTER

PART NO. 37540-01300

DWG. NO. S11-1370

三菱 MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA



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。

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

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

MHI CONFIDENTIAL

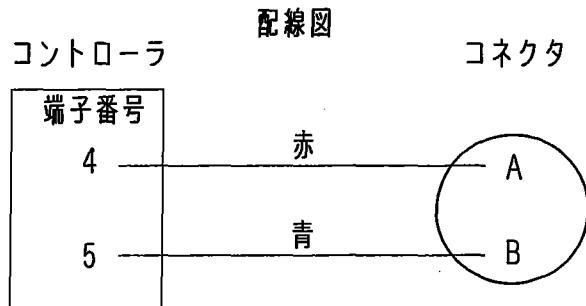
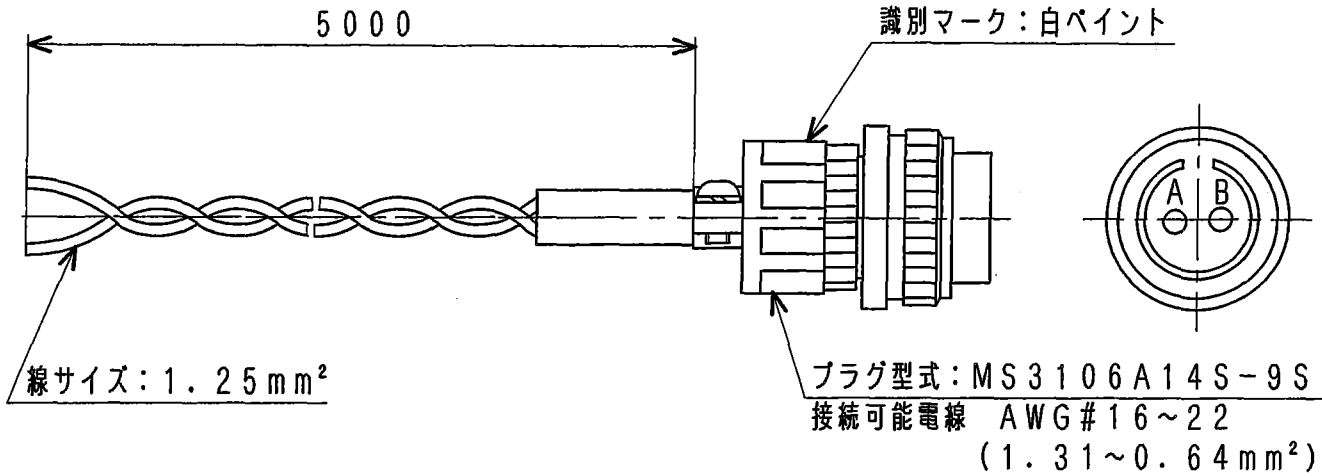
△	
△	
△	
REV.	DATE

SOLENOID

DWG. NO. S13-0282
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY

Y. FUKUDA



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。

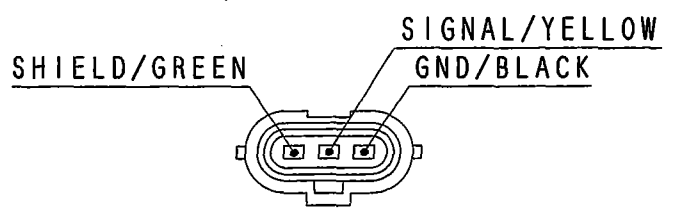
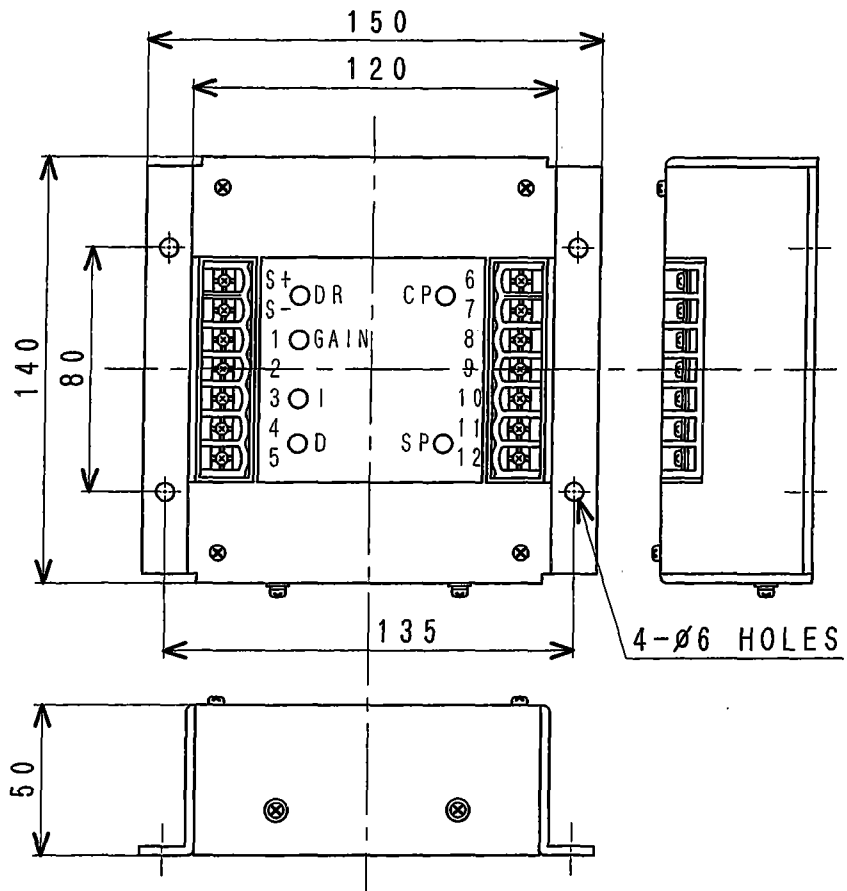
MHI CONFIDENTIAL

△	
△	
△	
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

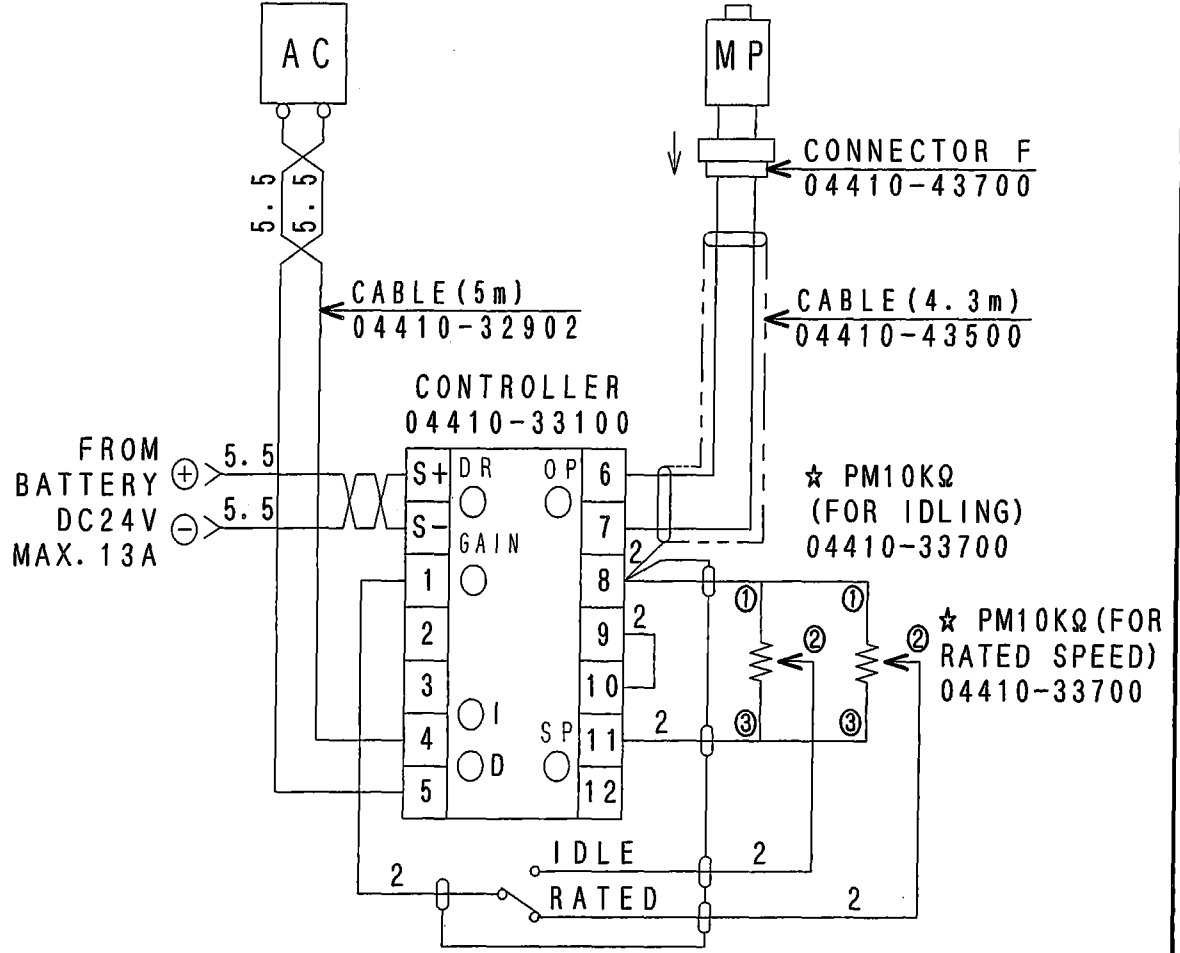
MHI CONFIDENTIAL

△	
2	'11.4.20
1	'01.6.29
REV.	DATE

CONTROLLER SPEED
PART NO. 04410-33100

ACTUATOR
04410-32011
04410-37081 (S12H)

MAGNETIC PICKUP
04410-43410



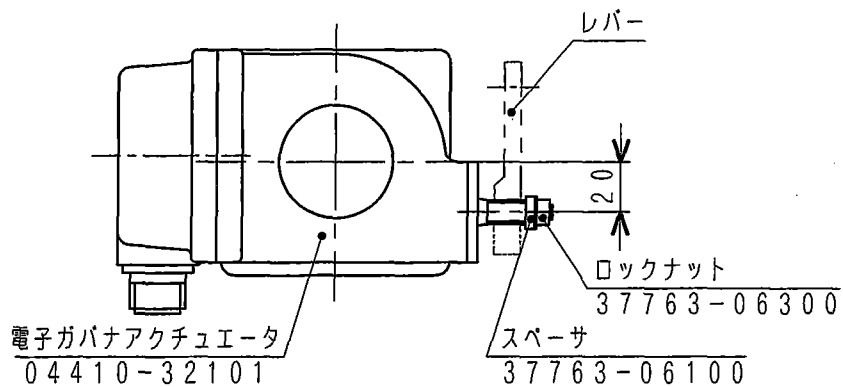
★ MODE CHANGEOVER CONTACTOR
(SHALL BE USE GOLD PLATING CONTACTOR)

WIRING

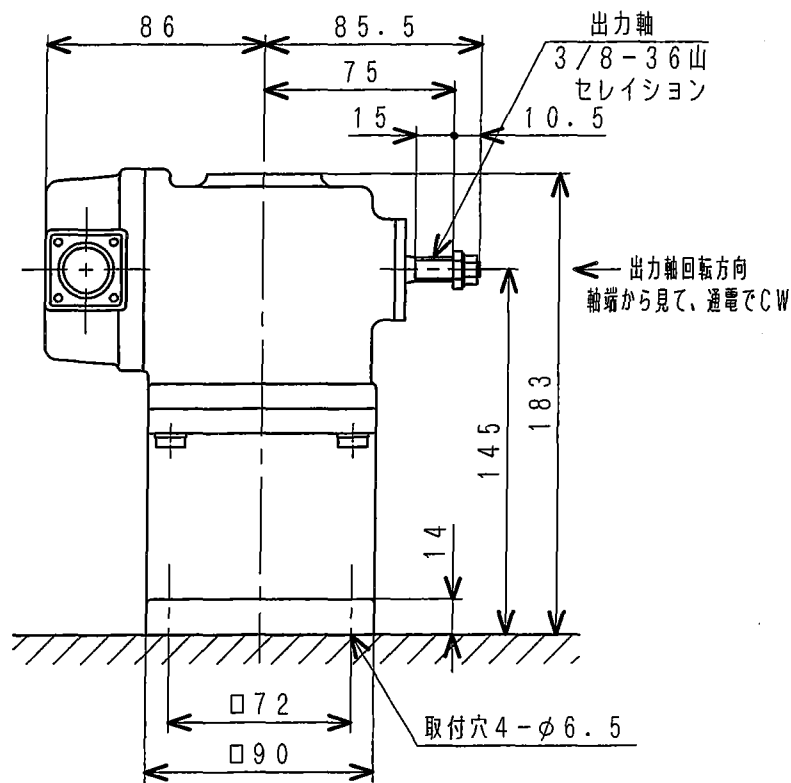
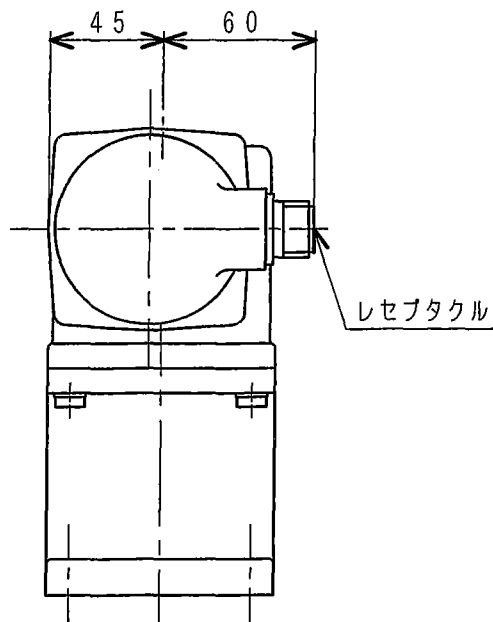
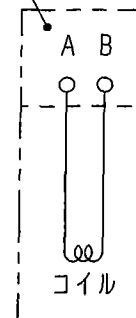
DWG. NO. S13-1042
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY

Y. FUKUDA



コネクタ用レセプタクル
(キャノンプラグ)



仕様

回転角度	: MAX 40°
トルク	: 0.17 kgf·m 起動時 起動時常温 8Aにて
電源	: DC 24V パルス
起動最低電圧	: DC 16V 50%ed以下
電流	: MAX 13A
常用電流	: 軽負荷制御時 0.5A~2A
周囲温度	: -30°C~100°C
耐震	: 25G JIS D 1601
重量	: 4.7 kgf

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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。

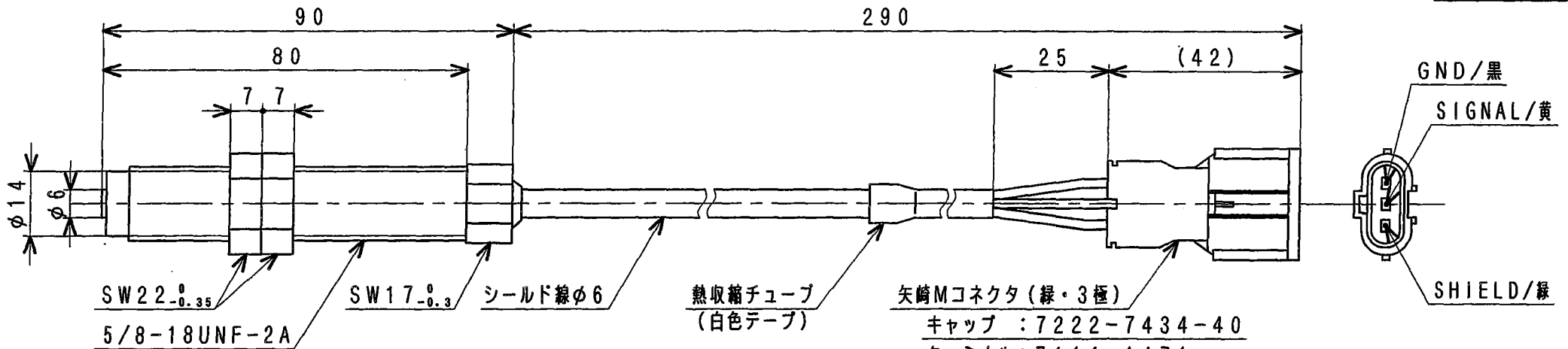
REV.	DATE

ACTUATOR/SG4017BR
PART NO. 04410-32011

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

CHECKED BY

Y. FUKUDA



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 (at 700Hz)
7.0Vp-p以上 (at 6700Hz)

直流抵抗 : 1.3kΩ~1.6kΩ (at +25℃)

絶縁抵抗 : 1MΩ以上 at DC 500V (コネクタ端子-ハウジング間)

耐電圧 : 50/60Hz AC 500V 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℃

注記

1. 本部品は日本エアボックス(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。

- キャップ : 7222-7434-40
- ターミナル : 7114-1471
- ゴム栓 : 7157-7812
- リヤホルダ : 7157-7814-80

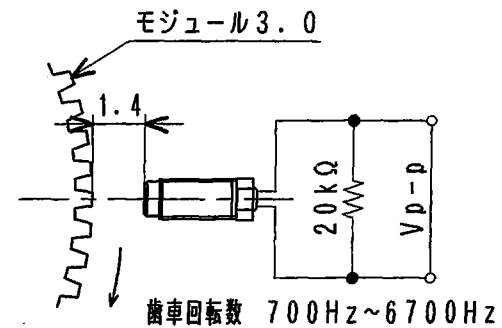


図1. 出力条件

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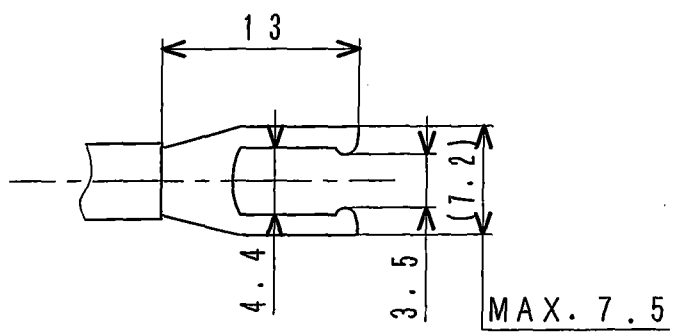
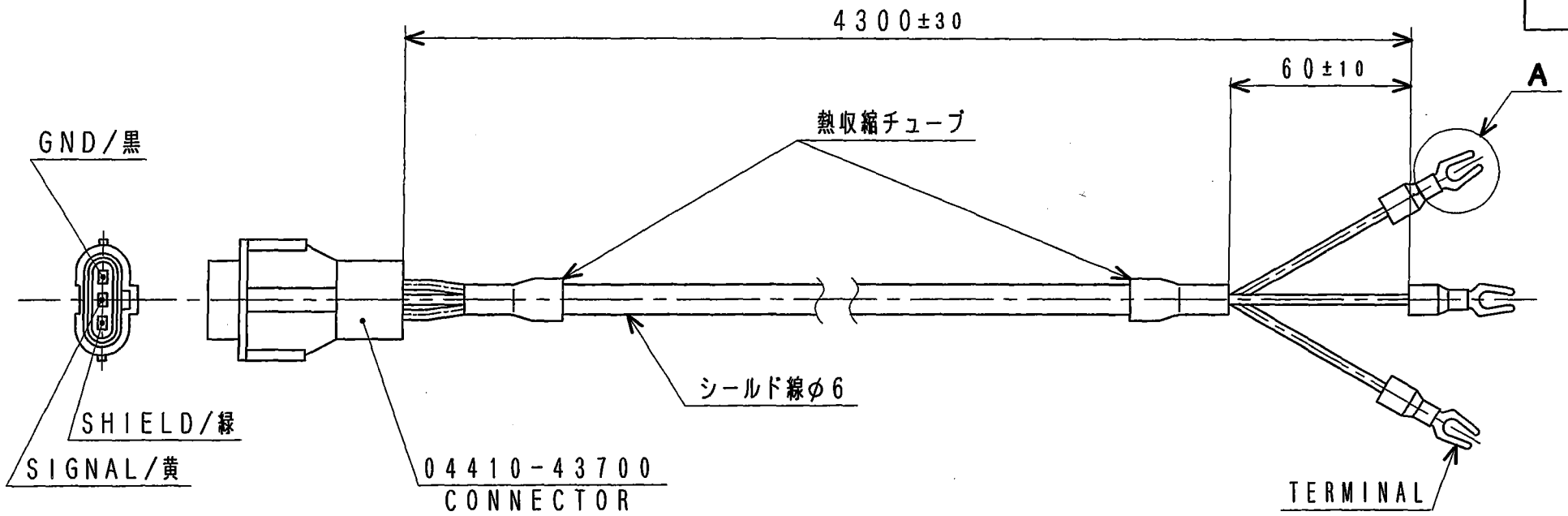
△	
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△	
REV.	DATE

PICKUP, MAGNETIC
PART NO. 04410-43410

DWG. NO. S13-2011

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

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DETAIL A

- (3) ターミナル形状は、A図と同等 (M3ネジ用) である。
 (2) 配線色は、黒X1, 黄X1 (各々メスピンの接続), 緑X1 (シールドに接続) である。
 注記 (1) リード線は、シールド線 (φ6) を使用。

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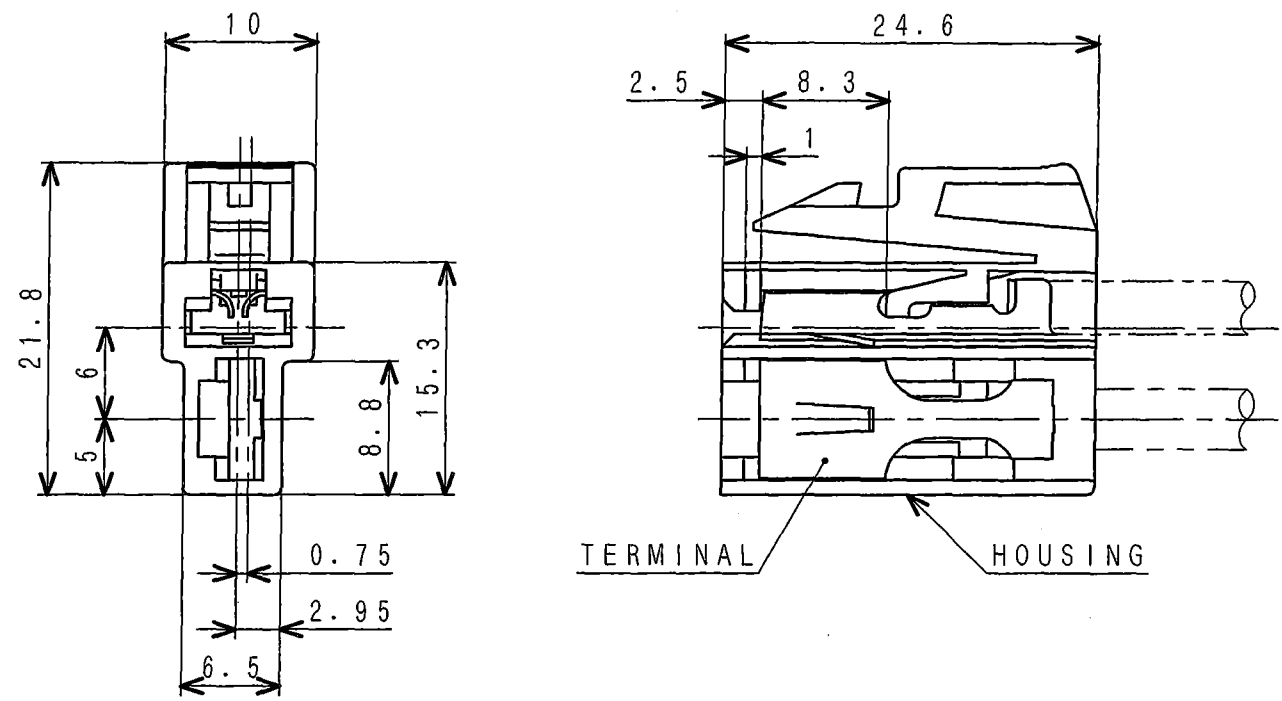
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△	
REV.	DATE

CABLE, PICKUP
 PART NO. 04410-43500

DWG. NO. S13-2020
 MITSUBISHI HEAVY INDUSTRIES, LTD.
 GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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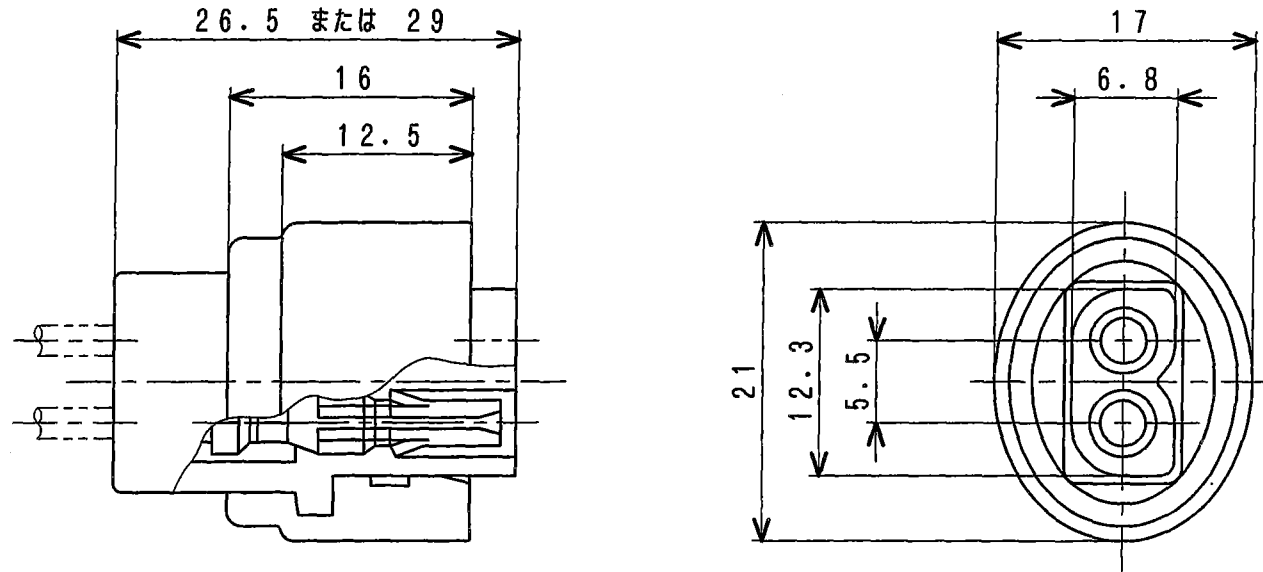
△	
△	
1	'93 9/10
REV.	DATE

CONNECTOR, 2 POLES
PART NO. F8665-02100

DWG. NO. S14-0320
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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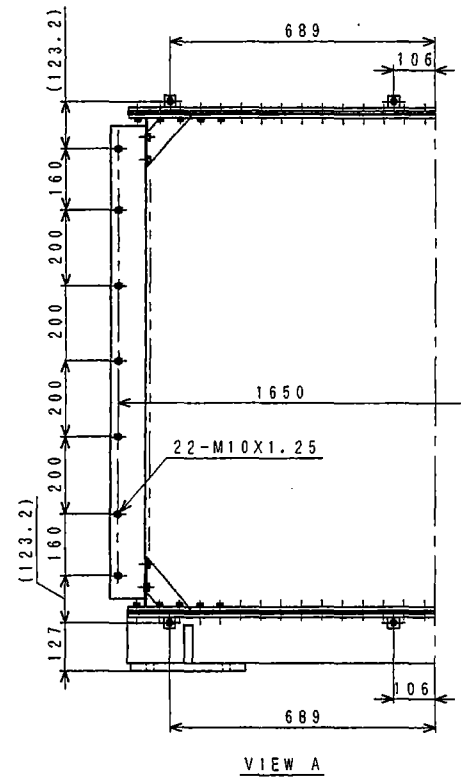
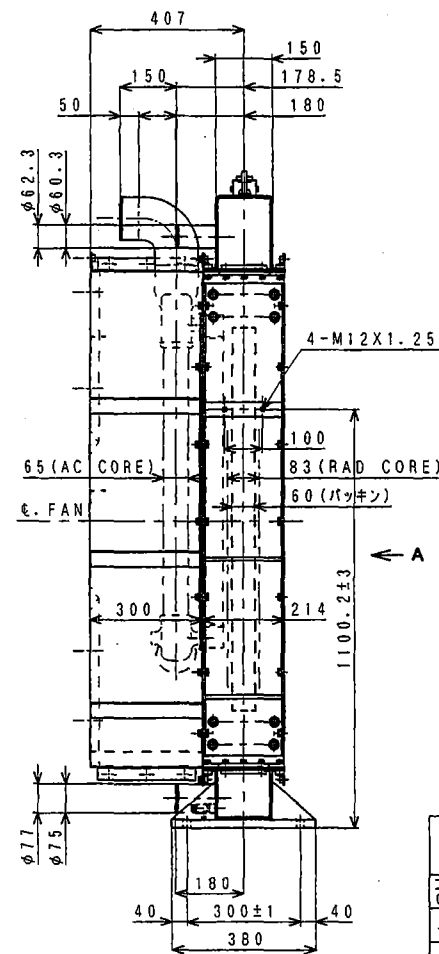
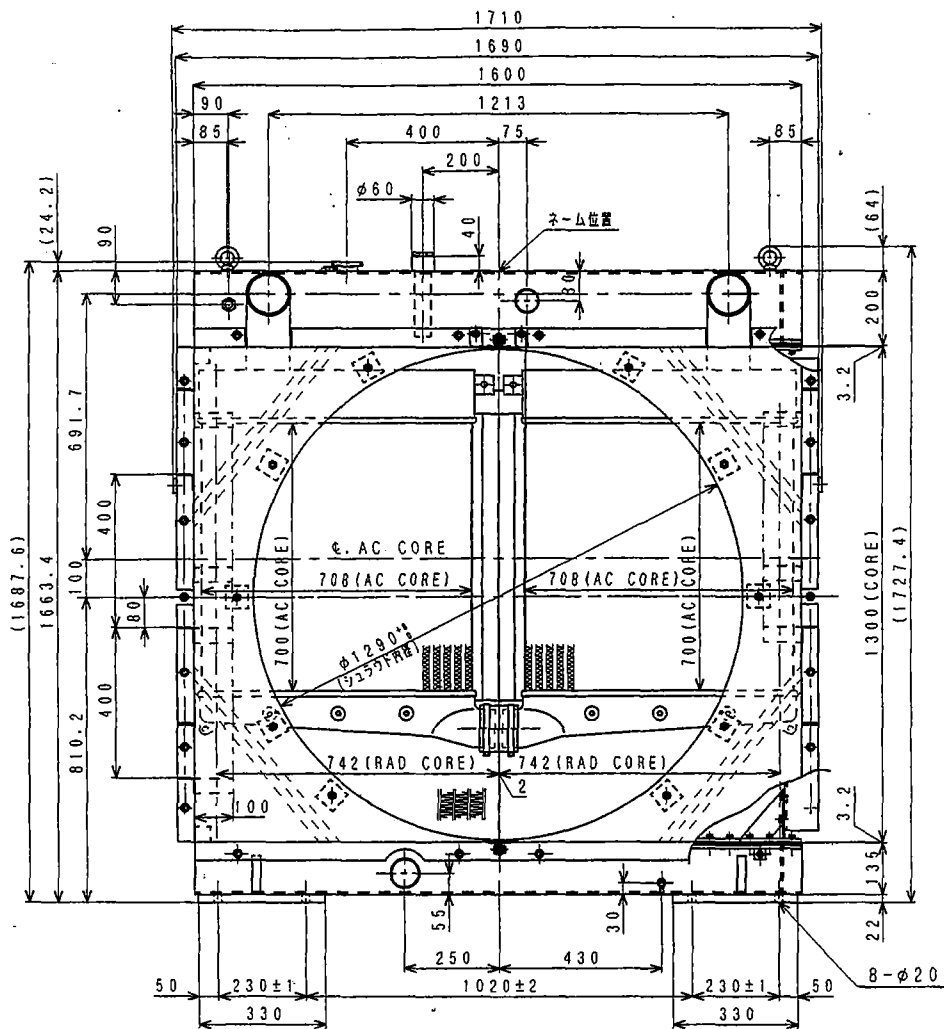
REV.	DATE
2	'04.3.12
1	'93.8.4

CONNECTOR
PART NO. MH052231

DWG. NO. S14-0330

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

A. Fukuda



CHARGE AIR COOLER

要目表	
PRINCIPAL ITEMS TABLE	
コア型式、フィンピッチ	4.0/2P
CORE TYPE, PITCH OF FIN	4.0/2P
全放熱面積	23.32X2m ²
TOTAL RADIATION AREA	23.32X2m ²
内訳	フィン 18.74X2m ² (本)
ITEMS	チューブ 4.58X2m ² (本)
通風断面積	136.2cm ²
AIR PASSAGE AREA	136.2cm ²
検圧(空気)	3.0kg/cm ²
LEAK TEST (PNEUMATIC)	3.0kg/cm ²
塗装	不要
PAINT	不要
質量	kg
MASS	kg
容量	ℓ
CAPACITY	ℓ
備考	REMARKS
	三角ストレートフィン

RADIATOR

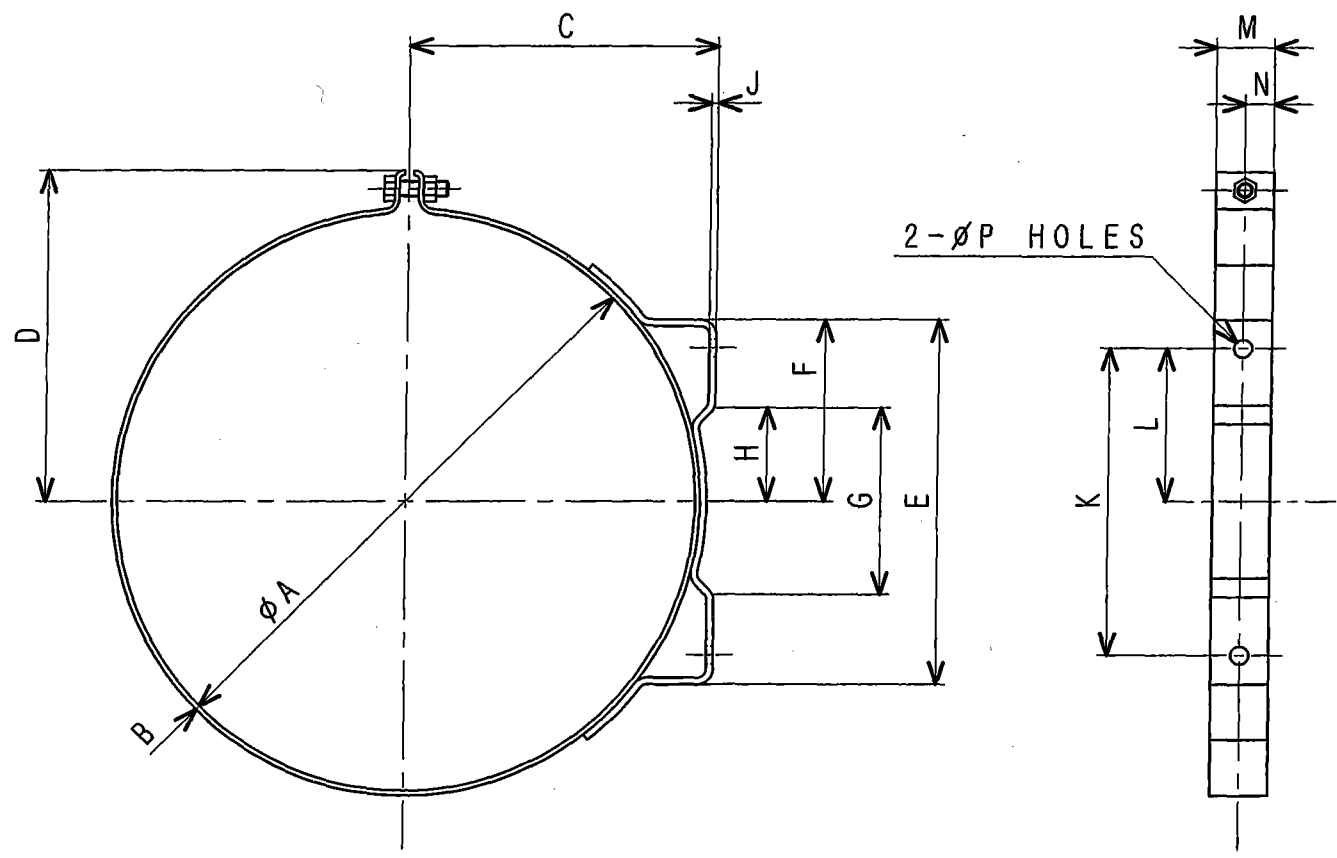
要目表	
PRINCIPAL ITEMS TABLE	
コア型式、フィンピッチ	CF4-5 4.5/2P
CORE TYPE, PITCH OF FIN	CF4-5 4.5/2P
全放熱面積	154.29m ²
TOTAL RADIATION AREA	154.29m ²
内訳	フィン 132.05m ² (142本)
ITEMS	チューブ 22.24m ² (610本)
通水断面積	114.9cm ²
WATER PASSAGE AREA	114.9cm ²
検圧(空気)	1.0kg/cm ²
LEAK TEST (PNEUMATIC)	1.0kg/cm ²
プレッシャバルブ開圧力	0.5±0.1kg/cm ²
PRESSURE OPENING PRESS	0.5±0.1kg/cm ²
真空バルブ真空圧	0~0.05kg/cm ²
VALVE (CAP) VACUUM PRESS.	0~0.05kg/cm ²
塗装	黒色
PAINT	黒色
質量	425kg
WEIGHT	425kg
容量	約 80ℓ
WATER CAPACITY	約 80ℓ
備考	REMARKS
	凹コア型式 CD

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注記 (2) 本図は、部番37547-05020に対し、シュラウド補強形としたものである。
 (1) 本図は、AIR TO AIR仕様RAD. I/C ASSY. である。

REV	DATE	S6R, S6R2 RAD. I/C ASSY. PART NO. 37547-15020	DWG. NO. S33-4530 MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS
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47220-30300	16' (∅406.4)	406.4	3.0	231.6	230	292	146	124	62	5.0	254	127	38	19	2-∅12	
47220-38300	15' (∅381.0)	381	3.2	203.2	218	241.4	120.7	127	63.5	5.0	203.2	101.6	38	19	2-∅12	FTG15
47220-21300	14' (∅355.6)	355.6	3.2	206.2	205.5	241.4	120.7	144	72	4.5	203.2	101.6	38.2	19.1	2-∅12	
47220-39300	13' (∅330.2)	330.2	2.6	184.2	191.9	179.4	89.7	53.8	26.9	3.2	152.4	76.2	38	19	2-∅10.3	FTG13
PARTS NO.	TYPE MEASURE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	REMARKS

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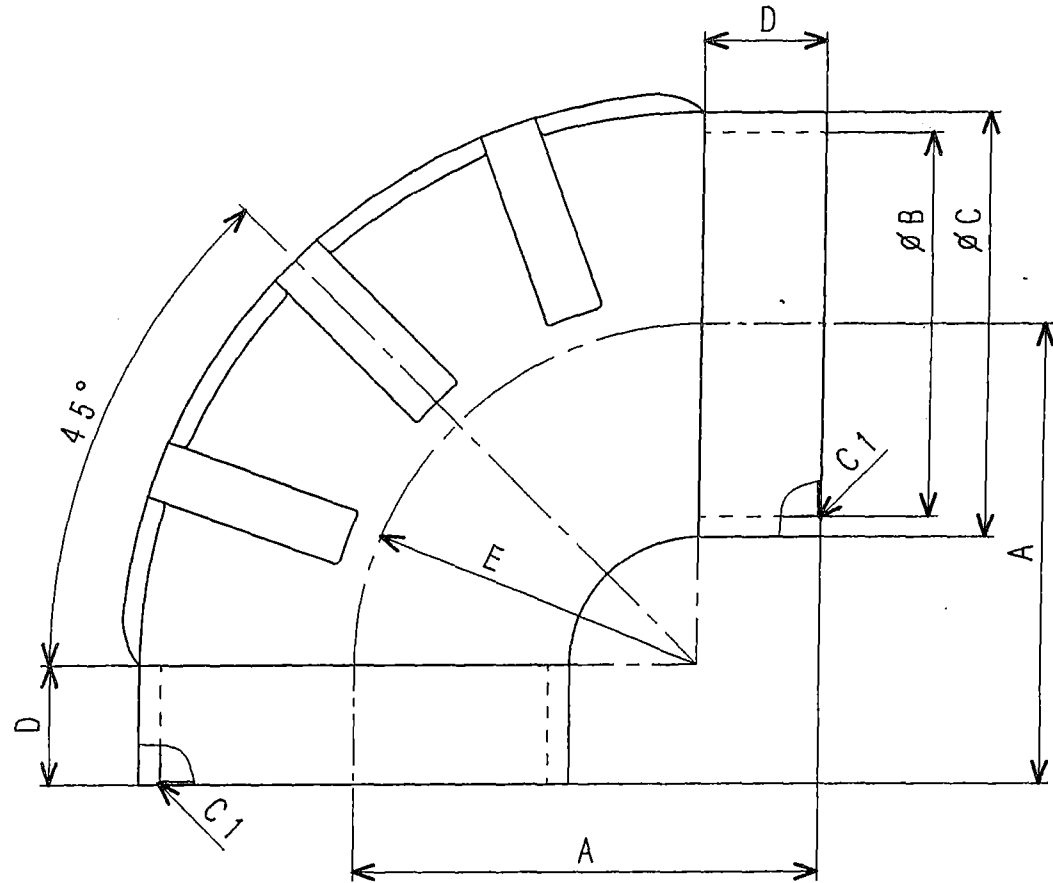
2	'00.11.7
1	'94.3.8
REV.	DATE

BAND

DWG. NO. S35-0600
 MITSUBISHI HEAVY INDUSTRIES, LTD.
 GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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J. Furukawa



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
PARTS NO.	TYPE MEASURE	A	B	C	D	E

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△	
△	
REV.	DATE

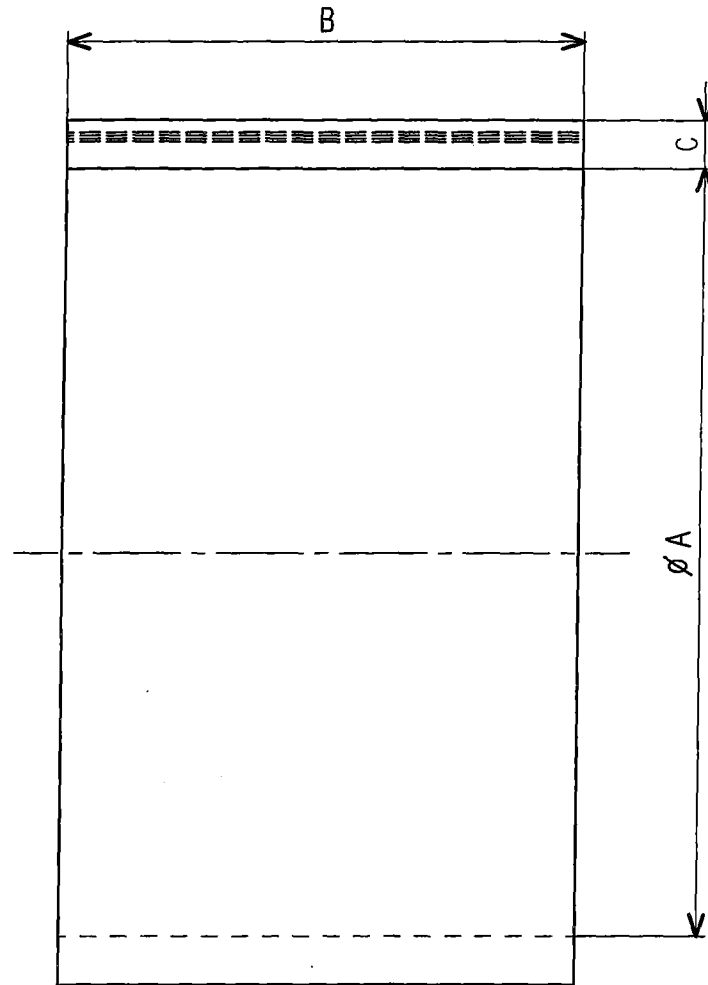
HOSE, RUBBER

DWG. NO. S35-0701

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

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47510-74800	160	150	8
45735-73400	152	85	8
45741-72900	127	85	8
PARTS NO.	A	B	C

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△	
△	
REV.	DATE

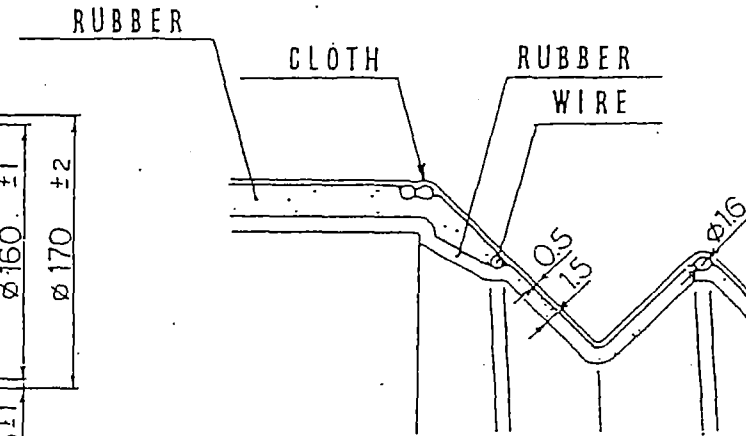
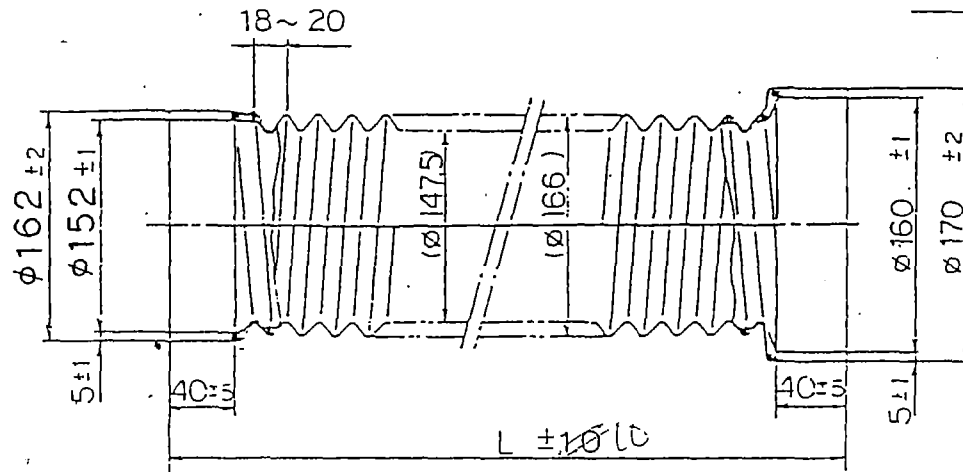
HOSE, RUBBER

DWG. NO. S35-0731

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

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47221-16900	500
" -16800	300
" -16700	850
" -16600	900
" -15500	2700
" -15400	1750
" -15300	1100
" -15200	1000
" -15100	700
PARTS NO.	LENGTH(mm)

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△	
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△	
REV.	DATE

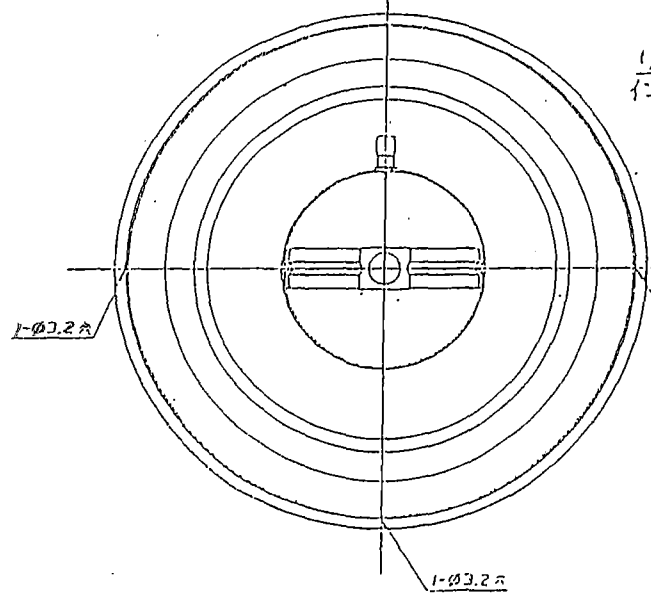
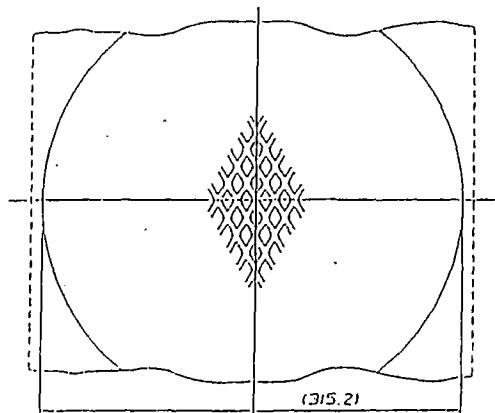
AIR HOSE

DWG. NO. S35-0751

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

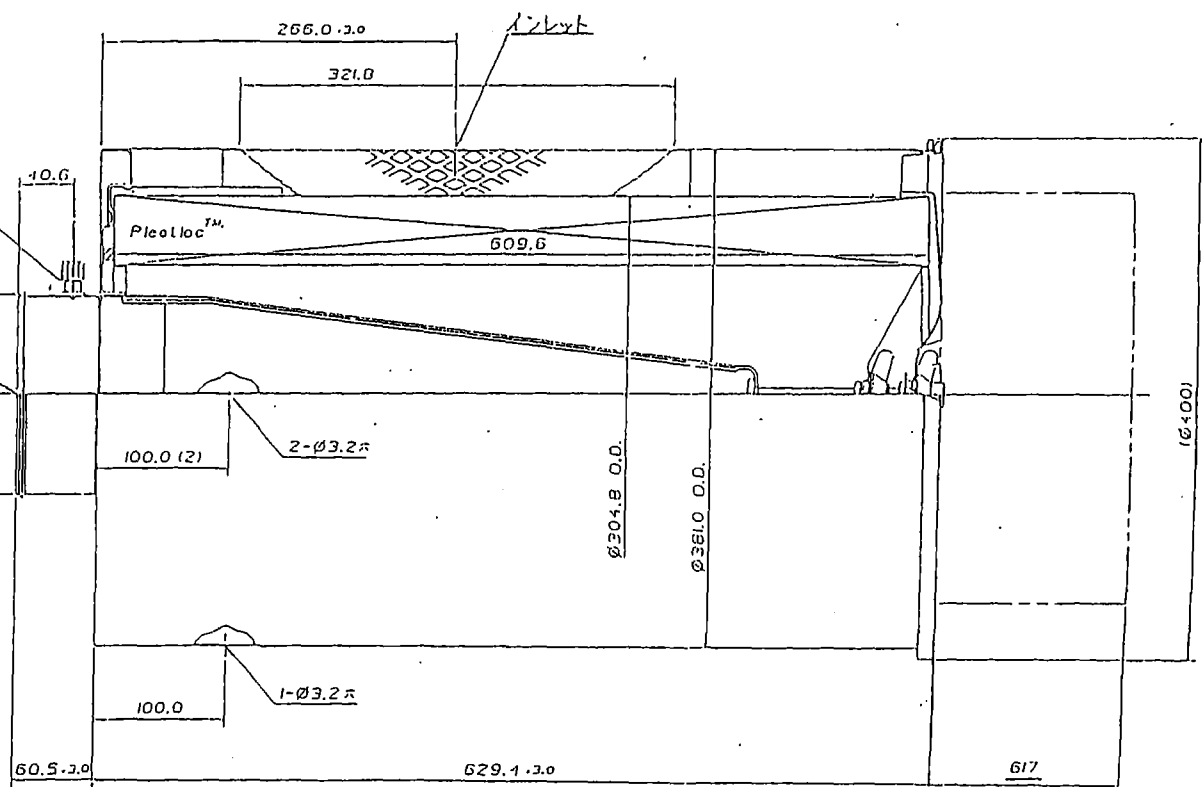
CHECKED BY

Y. FUKUDA



1/8-27NPT
インジータ接続口

アウトレット



エレメント抜出す法

注記 (1)部番:47220-46400に対し、塗装を黒色にしたものである。

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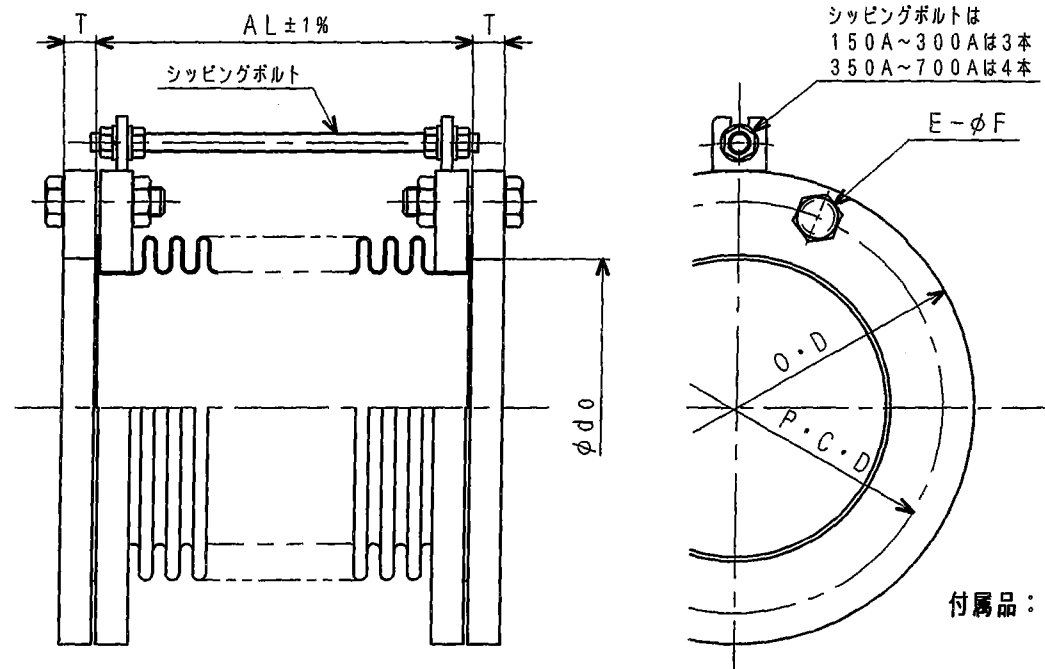
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△	
REV.	DATE

AIR CLEANER
PART NO. 47220-46401

DWG. NO. S35-1011
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

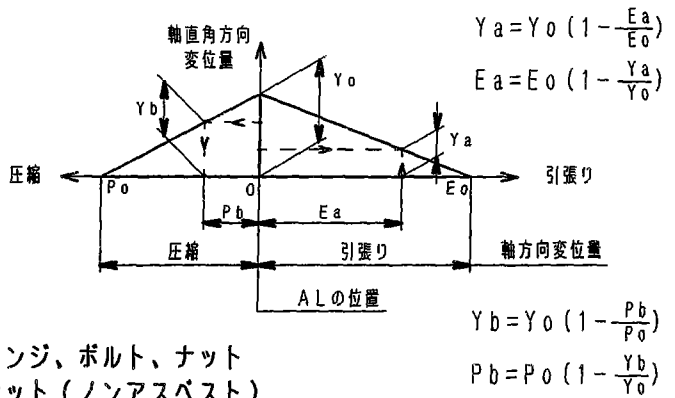
CHECKED BY

田 佐
澤 藤



Shippingボルトは
150A~300Aは3本
350A~700Aは4本

- 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。
- 注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。
- 注3. 配管後シヨッピングボルト、ナットは取り外すこと。



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）

部品番号	サイズ		主要寸法						許容変位量 (mm)			バネ定数 (N/mm)		質量 (kg)
	(A)	(B)	φdo	T	O.D	P.C.D	E-φF	AL	Po	EO	Yo	軸方向	軸直角方向	
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

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仕様	材質
設計圧力 0.049MPa	ボルト・ナット SS400
設計温度 MAX600℃	フランジ他 SS400
用途 排気ガス	パローズ SUS304

2	08.03.6
1	03.04.17
REV.	DATE

排気可とう管
(ガスケットレス形)

DWG. NO. S37-1080
 MITSUBISHI HEAVY INDUSTRIES, LTD.
 GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS