



## 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 valid 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 S16R-PTAA2 - C
Type	:	4cycle stroke, water cooled diesel engine
Combustion chamber	:	Direct injection type
Aspiration	:	Tarbocharged with inter cooler
Number of cylinders	:	16-V
Bore × stroke	:	170mm × 180mm
Total displacement	:	65.37 L
Compression ratio	:	14.0: 1
firing order	:	1 - 9 - 6 - 14 - 2 - 10 - 4 - 12 - 8 - 16 - 3 - 11 - 7 - 15 - 5 - 13
Direction of rotation	:	Counter clockwise as viewed from flywheel side
Engine dimensions (Approx.)	:	Length           Apx. 3975mm
with radiator	:	width            Apx. 2392mm
	:	Height           Apx. 3076mm
Dry weight (Approx.)	:	6650kg (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	:	1895kW/1500min <sup>-1</sup>
Fuel consumption ratio at Stand-by rating	:	217g/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.37896-21001 SAE J620d 21in, except screw size
Flywheel housing	:	DWG.NO.37896-21001 SAE J617c No.00, except screw size
Engine mounting	:	DWG.NO.37896-14001 6 points mounting, C = 250mm
Torsional vibration damper	:	Viscous type × 2pcs

## (2) Air intake system

Air cleaner	:	DWG.NO.37896-30308 loose supply DWG.NO.S35-1032 Donaldson EGB20 × 4 pcs Paper element type without inlet cap
Turbocharger	:	mitsubishi TD Type Model : TD10L-40QRC(23)
Charged air cooler	:	Air cooled type
Air heater	:	Non

## (3) Exhaust system

Exhaust manifold	:	Air cooled type with heat insulator
Muffler	:	Not supply
Flexible pipe	:	DWG.NO.S37-1090 (47920-12400) loose supply JIS 350A, L=335mm, weight 31.6kg
Companion flange	:	Not supply
Breather	:	DWG.NO.37896-43012 Down side direction type For blow - off to outside of engine room

## (4) Lubricating system

Oil pump	:	Gear pump type
Capacity of oil pump	:	1500min <sup>-1</sup> : 480 L/min.
Lub. oil pressure	:	0.5~0.65 Mpa
Quantity of oil (Approx.)	:	Oil pan full level : 200 L
		low level : 140 L
		Others (filter etc.) : 30 L
		Total : 230 L
Lub. oil filter (Full flow)	:	DWG.NO.37896-40001
		Paper element cartridge type × 4pcs
		filter mesh : 20 μ
		with by - pass alarm switch
Lub. oil filter (By - pass flow)	:	DWG.NO.37896-40001
		Paper element cartridge type × 1pc
		filter mesh : 2 μ
Lub. oil cooler	:	Water cooled corrugated type with by - pass valve

## (5) Cooling system

Water pump	:	Gear drive centrifugal type
Capacity of water pump	:	1500min <sup>-1</sup> : 1650 L/min.
Thermostat	:	Wax pellet type
		Open at 71°C ~ 85°C
Fan	:	Pusher type, Aluminum casting blade
		1905mm diameter
		Mounted on radiator frame
		Belt drive with tension pulley
		Fan speed ratio i = 0.566
Radiator & Inter cooler piping	:	DWG.NO.37896-47007 loose supply
Radiator & I/C Assy.	:	DWG.NO.S33-4562
		Plated fin type
Radiation area	:	Inter cooler side 223.8m <sup>2</sup>
		Radiator side 613.4m <sup>2</sup>
weight (DRY)	:	Approx. 1610kg

Capacity of coolant (Approx.)	:	Engine	:	170 L
		Radiator	:	220 L
		Pipings	:	10 L
		Total capacity	:	400 L
Jacket water heater				
Water heater piping	:	DWG.No.37896-46308		
		Install on common bed		
Water heater	:	DWG. No.S12-0014		
		2.0kW, 3 phase, 220 ~ 480V		
		1 Phase, 110 ~ 480V		
Operation	:	Convection type		
		Controlled by thermo switch		
Thermo switch	:	DWG.No.S11-0781		
		42°C - off, 35°C - on		
		Contactactor capacity		
		DC24V : 3A		
		AC100V : 1A, DC100V : 0.05A		
(6) Fuel system				
Fuel inlet pipings	:	DWG.NO.37896-62112 loose supply		
		flexible hose (Rc 3/4 joint)		
Fuel return pipings	:	DWG.NO.37896-61312 loose supply		
		flexible hose (Rc 3/4 joint)		
		Fuel overflow of Inj. Pump and fuel leak - off of Nozzle have to return to fuel tank		
Injection pump	:	Bosch type "PS8" without timer		
Feed pump	:	Piston type with priming pump		
Injection Nozzle	:	Hole type 0.325mm × 10 holes		
Fuel filter	:	DWG, No.37896-62002		
	:	Paper element cartridge type filter mesh : 5 μ		

## (7) Control system

Governor	: DWG.NO.37896-63005 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	: DWG.NO.37896-66001 DC24V, 7.5KW × 2pcs Reduction type with safety relay with 2 poles connector (DWG.NO.S14-0320)
Safety relay	: DWG.NO.S10-0150 loose supply For Parallel running of starting motor

Current of starter	: Rush	1250A
	Cranking	400A
	(Ambient temp : 5°C, Lub. oil : SAE No. 30)	
Fuel limit solenoid	: DWG.NO.37896-87503	
	DWG.NO.S13-0282	
	Fuel limit at engine starting	
	Energized to fuel control until rated speed	
Alternator	: DWG.NO.S10-0540	
	DC24V, 30A, with voltage regulator	
	with 2 poles connector (DWG.NO.S10-0550)	
Recommended battery capacity	: DC24V, 400AH	
	Not supply	
Battery switch	: Not supply	
(9) Stopping system	: DWG.NO.37896-87503	
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.37896-90207	
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.S11-1370	
	Piston type : 0.15 MPa switch on	
Oil filter alarm lamp	: Not supply	
Air filter alarm indicator	: DWG.NO.S11-0920 loose supply	
	Mechanical type : 635mmH <sub>2</sub> O switch on	

## (11) Instrument

Meter and sensor	:	DWG.NO.37896-90119
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, 4300mm length 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

Turning device	:	DWG.NO.37896-71001 Gear type, for maintenance
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	47220-47703	AIR CLEANER ASSY.	4	S35-1032	37896-30308
2	47220-47600	HOSE, ELBOW	4	S35-0701	
3	47521-74100	PIPE, AIR (L.H.)	1		
4	47521-74200	PIPE, AIR (R.H.)	1		
5	47521-74300	PIPE, AIR (L.H.)	1		
6	47521-74400	PIPE, AIR (R.H.)	1		
7	47220-47300	HOSE, RUBBER	4	S35-0711	
8	47521-73800	STAY, PIPE (L.H.)	1		
9	47521-73900	SYAY, PIPE (R.H.)	1		
10	05317-52001	CLAMP	8		
11	05317-52801	CLAMP	8		
12	47920-12400	FLEXIBLE PIPE	1	S37-1090	37896-43012
13	45955-20160	HOSE, VINYL	2		
14	05317-50401	CLAMP	4		
15	04393-32220	HEATER, WATER	2	S12-0014	
16	47521-62901	CASE, HEATER	2		37896-46308
17	45961-13079	PIPE, FLEXIBLE	1		
18	45961-13125	PIPE, FLEXIBLE	1		
19	30007-65200	VINYL HOSE	2		
20	33407-16100	COCK, DRAIN	2		
21	05946-02001	WASHER, SPRING	2		
22	45961-13072	PIPE, FLEXIBLE	1		
23	45961-13154	PIPE, FLEXIBLE	1		
24	47521-63100	STAY	1		
25	F2882-25000	CLIP	1		
26	F4300-01600	CLAMP	2		
27	F4656-15000	ELBOW	6		
28	F5006-21000	PLUG, TAPER	2		

NO.	PARTS NO.	PARTS NAME	Q' TY	DWG. NO.		
29	37847-11300	RAD. & I/C ASSY.	1	S33-4562	37896-47007	
30	47510-61601	PIPE, WATER	2			
31	47523-60400	PIPE, WATER	2			
32	47523-60300	PIPE, WATER	1			
33	47520-68700	STAY, PIPE	4			
34	47523-60500	STAY, PIPE	2			
35	47523-61700	STAY, PIPE	1			
36	F3153-07500	O-RING	2			
37	F4010-76018	HOSE, RUBBER	4			
38	45960-19020	HOSE, RUBBER	2			
39	37531-05201	HOSE, RUBBER	2			
40	05317-51001	CLAMP	16			
41	05317-51401	CLAMP	8			
42	04830-01460	CLAMP	8			
43	45790-60900	U-BOLT	2			
-44	(47510-70502)	(STAND, AIR PIPE)	(1)	S35-0920		
45	47510-76410	STAY, AIR PIPE	1	NOTE : No.44 is not supply from M.H.I.		
46	47510-76420	STAY, AIR PIPE	1			
47	37831-00603	DUCT, AIR T/C-I/C	2			
48	37831-00703	DUCT, AIR T/C-I/C	1			
49	37831-00803	DUCT, AIR I/C	1			
50	37831-01902	STAY, AIR DUCT	2			
51	37831-01600	CLAMP, AIR DUCT	2			
52	37831-31103	DUCT, AIR I/C-A	1			
53	37831-02903	DUCT, AIR I/C-A	1			
54	37831-02400	JOINT, FLEX. 150A	2			
55	47941-33050	GASKET	2			
56	47941-33060	GASKET	8			
57	37748-08200	V-BELT	6			
58	37831-10901	TURNBUCKLE	1			

NO.	PARTS NO.	PARTS NAME	Q' TY	DWG. NO.	
59	45950-51700	PIPE,FLEXIBLE	1	37896-61312	
60	45950-11300	CONNECTOR	1		
61	45950-51700	PIPE,FLEXIBLE	1	37896-62113	
62	45950-11300	CONNECTOR	1		
63	04410-33100	CONTROLLER	1	S13-1042	37896-63005
64	04410-32902	CONNECTOR, ACTUATOR	1	S13-1022	
65	04410-43500	CABLE, PICK UP	1	S13-2020	
66	04322-40100	RELAY, SAFETY	1	S10-0150	
67	F8665-02100	CONNECTOR	2	S14-0320	for starter
68	32B90-00300	CONNECTOR	1	S10-0550	for alternator
69	MH052231	CONNECTOR	1	S14-0330	37896-90119
70	47220-34401	INDICATOR	4	S11-0920	37896-90207

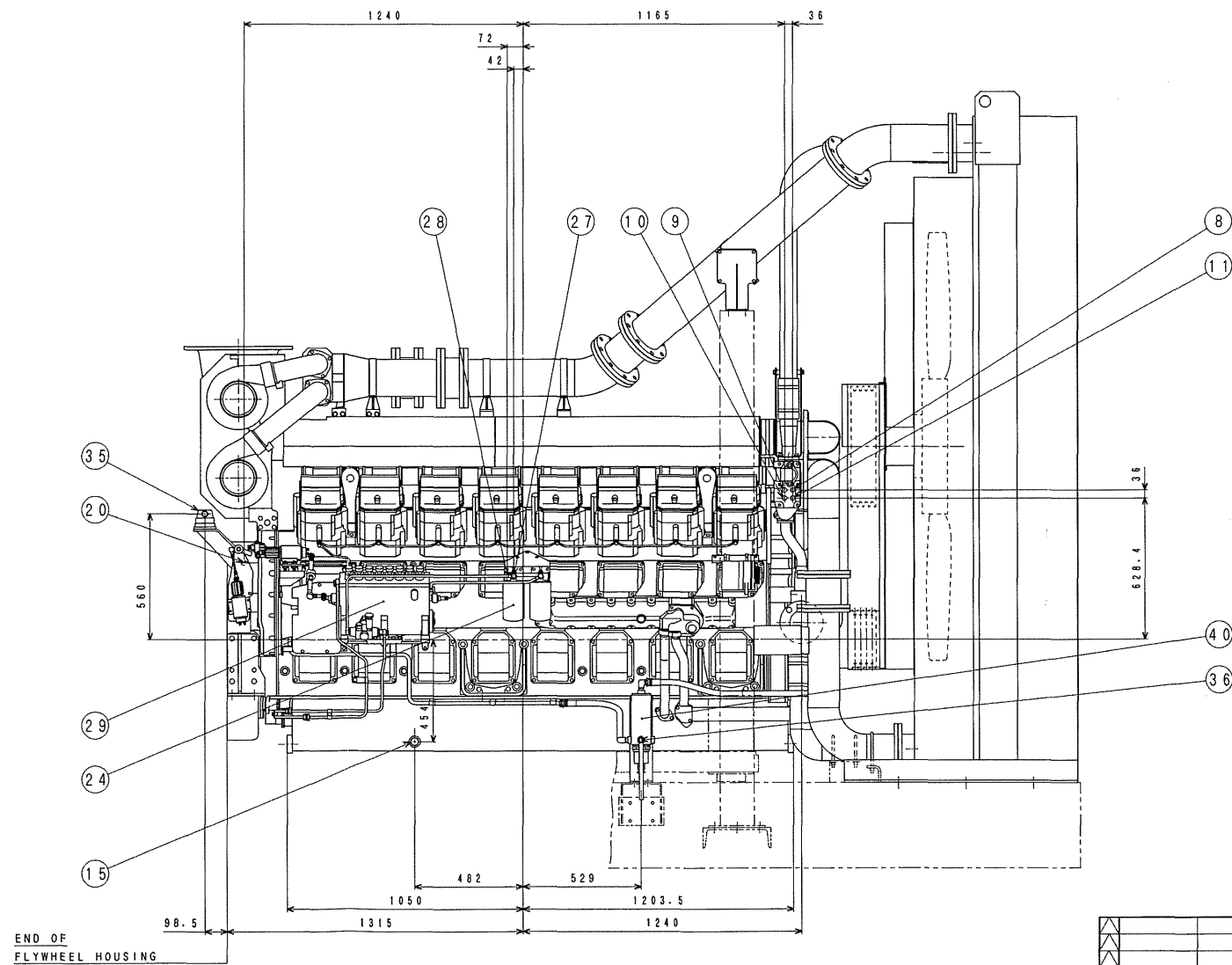
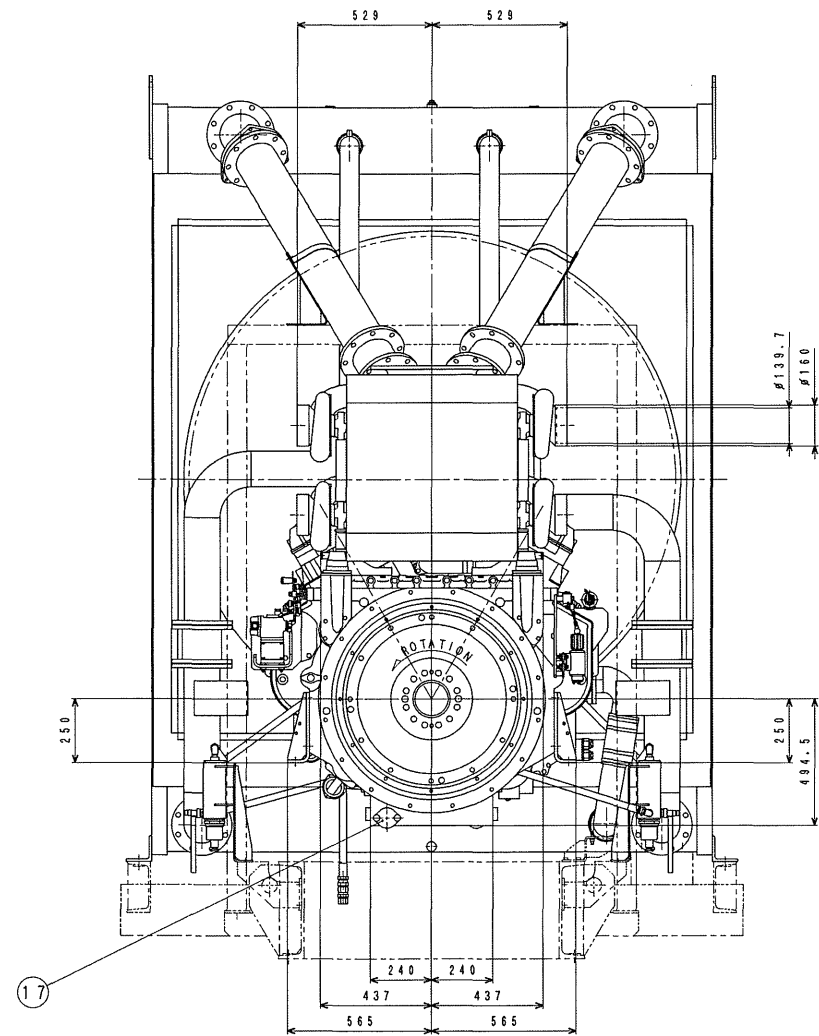
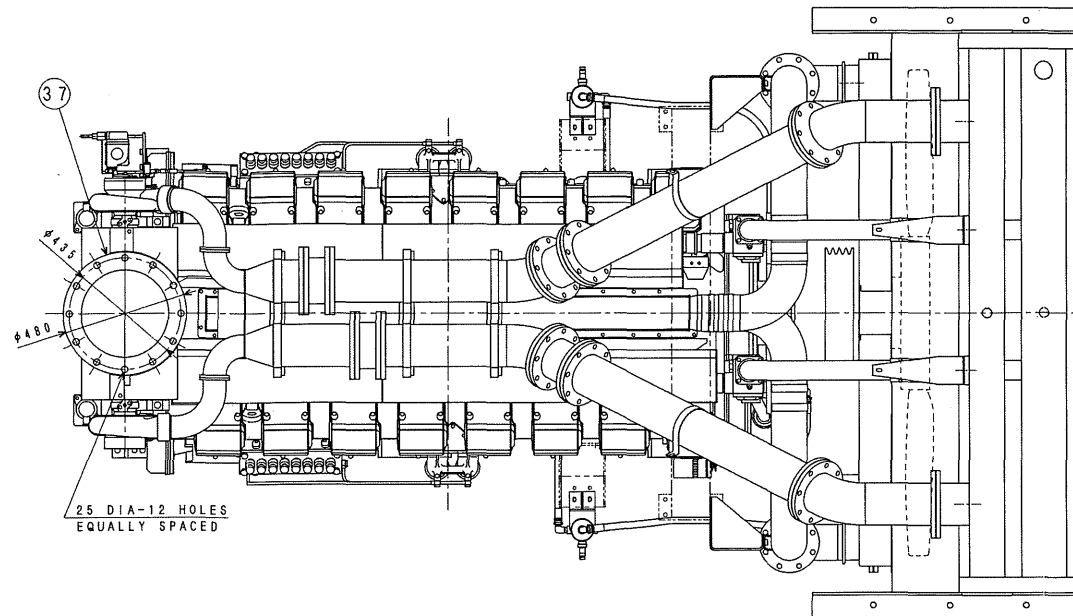
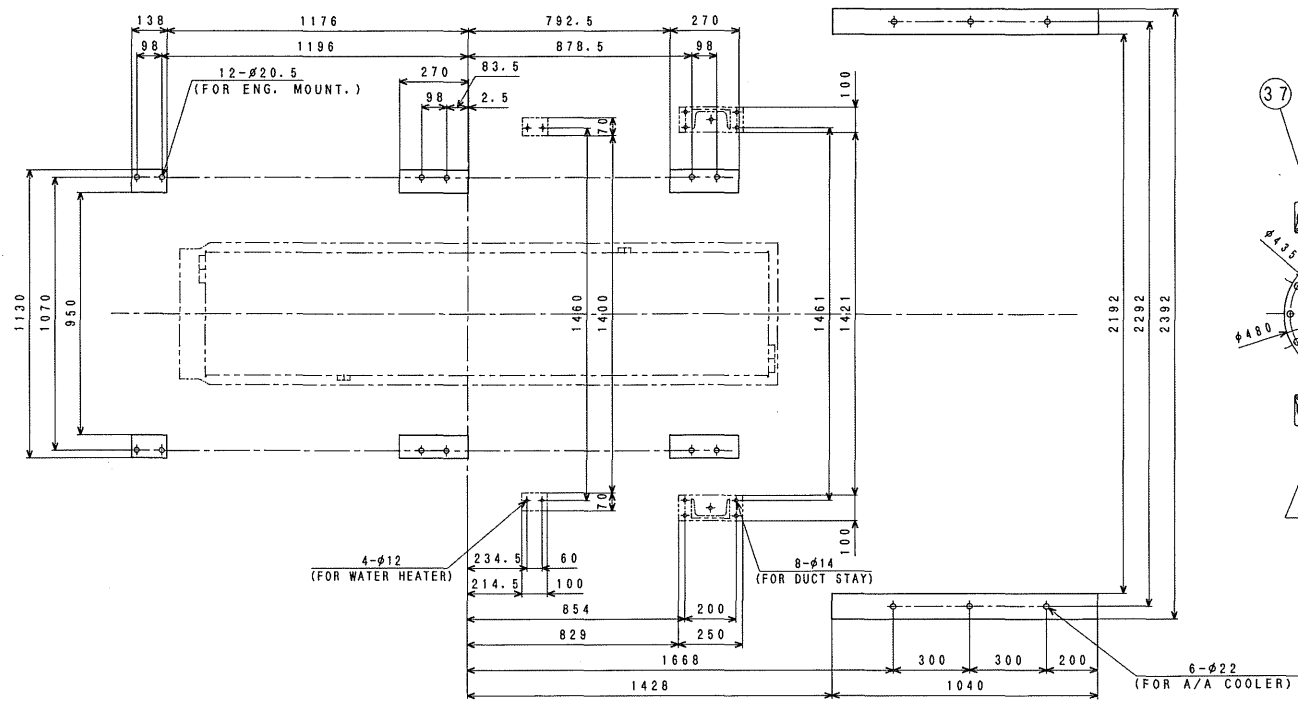
5. DRAWINGS

NO.	DWG. NO.	DWG. NAME	REV.
1	37896-00401	ENGINE OUTLINE	
2	37896-01001	JOINT DETAIL	
3	37896-04029	WIRING DIAGRAM	
4	37896-14001	MOUNTING DETAIL	
5	37896-21001	FLYWHEEL & HOUSING DETAIL	
6	37896-30308	AIR CLEANER	
7	37896-40001	OIL FILTER	
8	37896-43012	BREATHER	
9	37896-46308	WATER HEATER PIPING	
10	37896-47007	RADIATOR PIPING	
11	37896-61312	FUEL RETURN PIPING	
12	37896-62002	FUEL FILTER	
13	37896-62112	FUEL INLET PIPING	
14	37896-63005	GOVERNOR	
15	37896-66001	STARTING MOTOR	
16	37896-71001	TURNING GEAR	
17	37896-87503	STOP & FUEL LIMIT SOLENOID	
18	37896-90119	METER & SENSOR	
19	37896-90207	ALARM SWITCH	
20	S10-0150	SAFETY RELAY	
21	S10-0540	ALTERNATOR	
22	S10-0550	CONNECTOR	
23	S11-0551	THERMO SWITCH	
24	S11-0781	THERMO SWITCH	
25	S11-0796	PRESSURE SWITCH	
26	S11-0920	INDICATOR	
27	S11-1370	FILTER ALARM SWITCH	
28	S12-0014	WATER HEATER	
29	S13-0282	SOLENOID	
30	S13-1022	CONNECTOR	
31	S13-1042	CONTROLLER	

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NO.	DWG. NO.	DWG. NAME	REV.
32	S13-1761	ACTUATOR	
33	S13-2011	MAGNETIC PICK UP	
34	S13-2020	CABLE, PICK UP	
35	S14-0320	CONNECTOR	
36	S14-0330	CONNECTOR	
37	S33-4562	RAD. & I/C ASSY.	
38	S35-0701	HOSE, ELBOW	
39	S35-0711	HOSE, RUBBER	
40	S35-0920	STAND, AIR PIPE	
41	S35-1032	AIR CLEANER ASSY.	
42	S37-1090	FLEXIBLE PIPE	

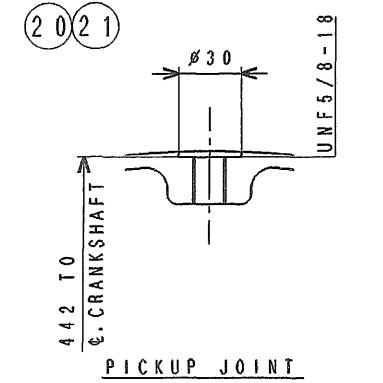
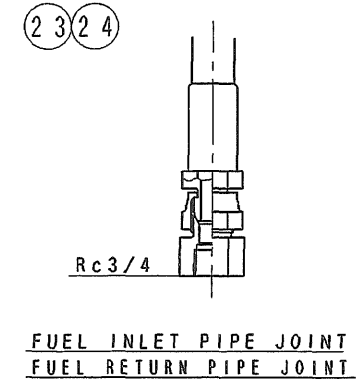
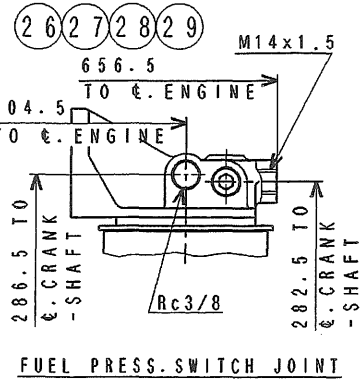
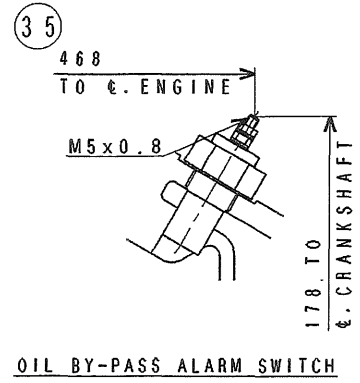
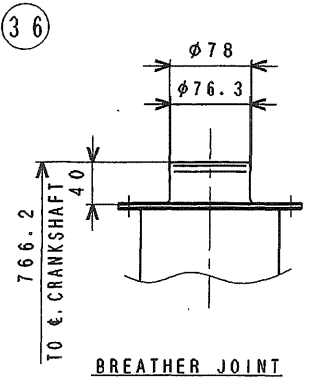
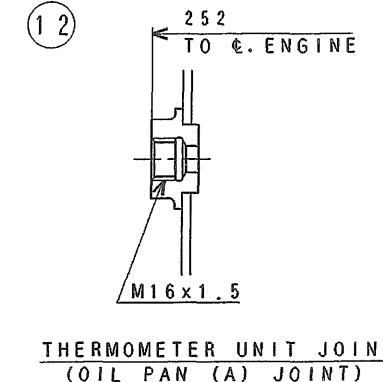
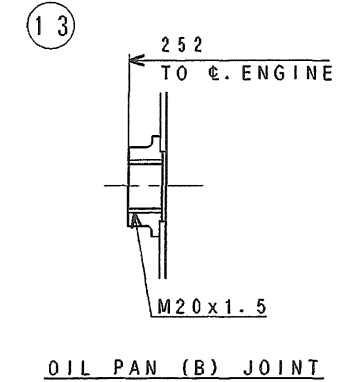
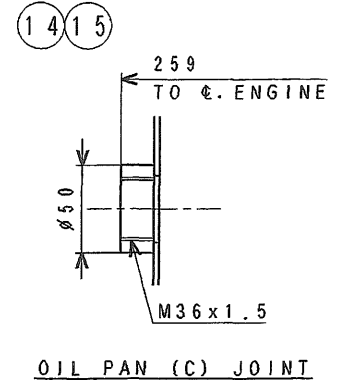
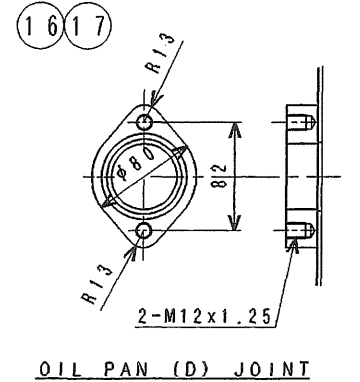
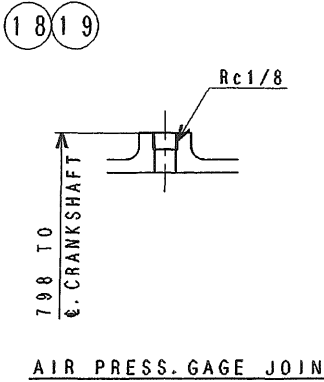
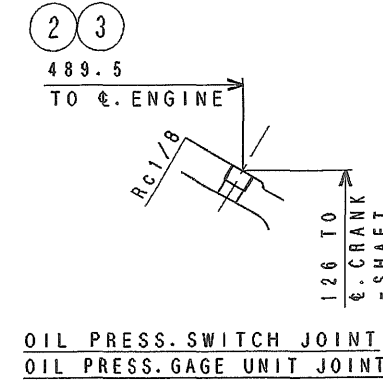
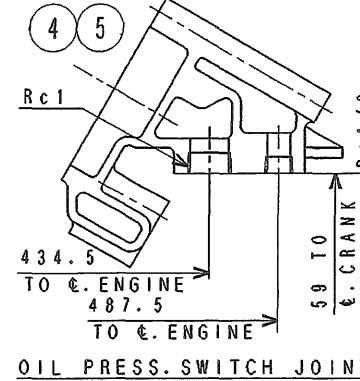
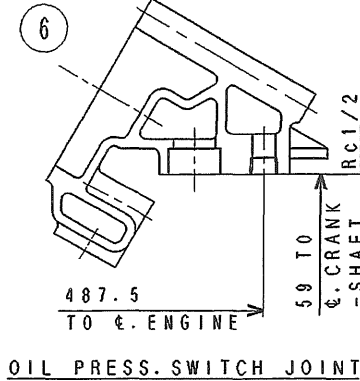
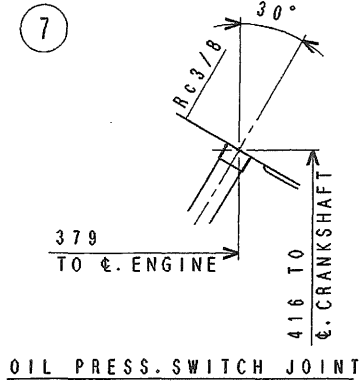
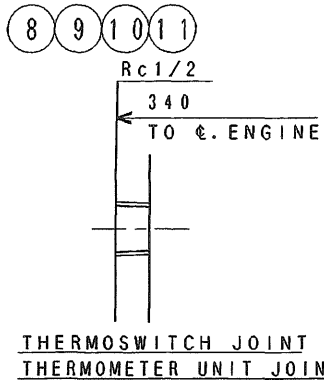




4590-6945		00. 8.28	清田	1:10
CHG	ED-NO	DATE	CHK	SCALE
清田	尾谷	尾谷	尾谷	1:10
S16R-PTAA2 DIESEL ENGINE				37896-00401
三機重工株式会社相模原製作所 SAGAMIHARA MACHINERY WORKS, MATSUDORI HEAVY INDUSTRIES, LTD.				2/2
1998.10.5				2

旧引  
A  
汎特  
2000  
0.5

FULL-CAD



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3rd ANGLE PROJECTION	3rd ANGLE PROJECTION
尺度 SCALE	尺度 SCALE
1 4590-4994 '99.3.8 仁尾	1 4590-4994 '99.3.8 仁尾
CHG	EO-NO
DATE	CHK
認可 APPD	検図 CHK
仁尾	福田
製図 DRN	清藤
1998. 8. 20	

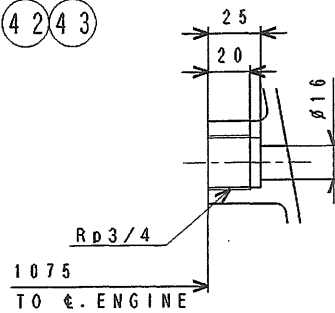
S16R  
JOINT DETAIL  
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SAGAMIHARA MACHINERY WORKS. MITSUBISHI HEAVY INDUSTRIES, LTD.  
図面番号 37896-01001  
DRAWING No. 37896-01001 1/2

旧引  
相製  
1999  
4.6

FULL-CAD

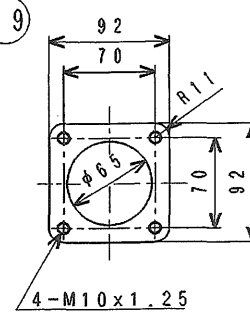
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4 旧引図  
1 相立図  
2 銅鋳物部品  
3 板金溶接品  
4 組立品  
5 切削品  
6 その他(購入品)

4 2 4 3



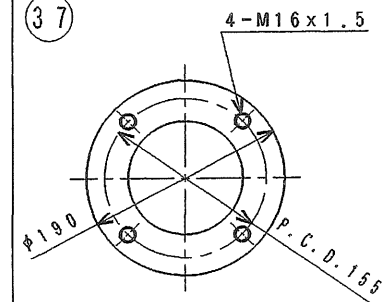
THERMOMETER, EX. JOINT

3 8 3 9



WATER OUTLET PIPE JOINT

3 7



WATER INLET PIPE JOINT

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				尺度 SCALE	
1		4590-4994	'99.3.8	仁尾	
CHG	EO-NO	DATE	CHK		
認可 APPD	青田	検図 CHK	仁尾 福田	製図 DRN	斎藤
				1998. 8. 20	

S16R

JOINT DETAIL

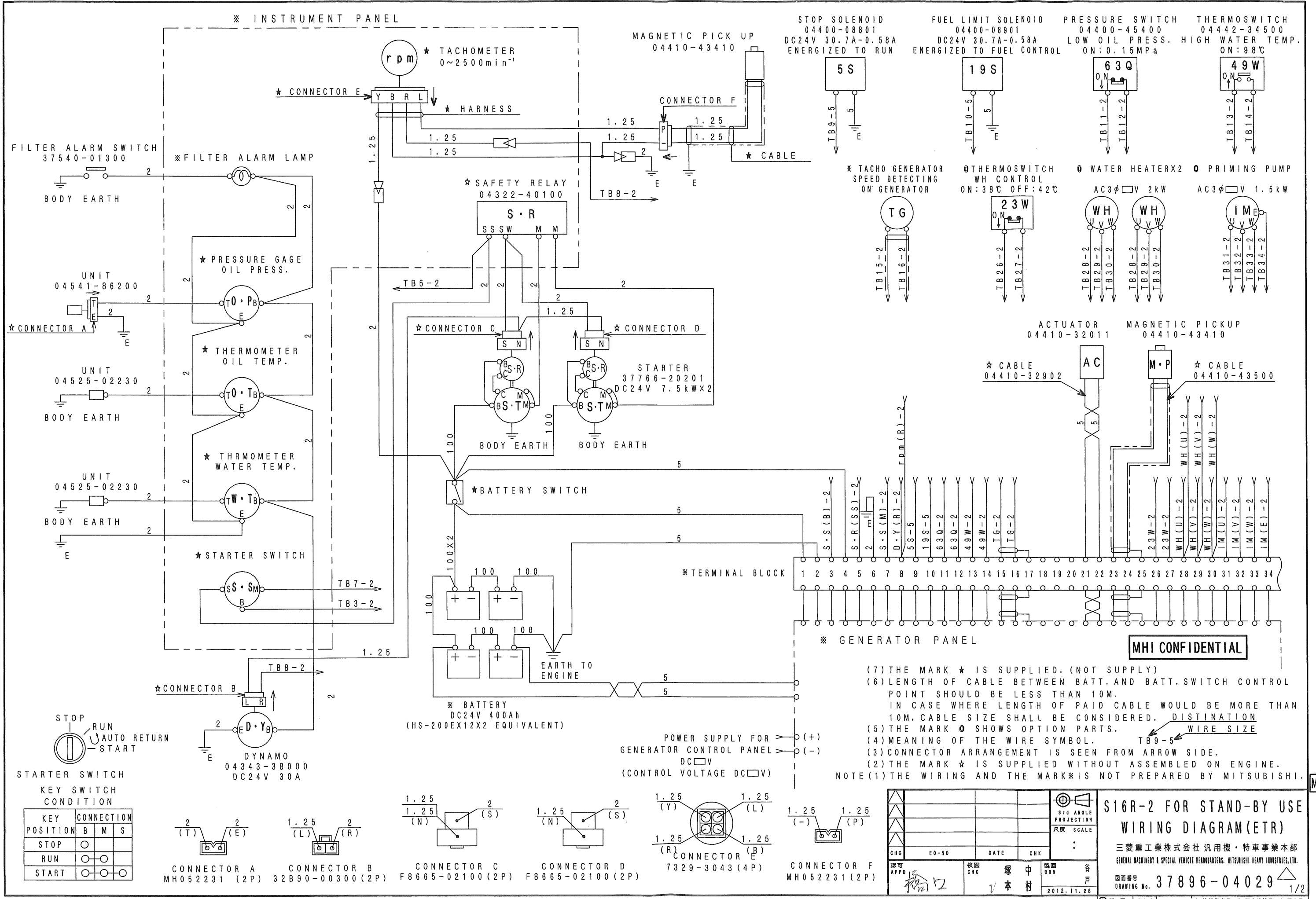
三菱重工業株式会社相模原製作所  
SAGAMIHARA MACHINERY WORKS, MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 37896-01001 2/2  
DRAWING No.

3 新図	7121	① 組立図	2 跡繪物準品	3 板金添接品	4 組立品
④ 旧引図	A 3		5 切削品	6 その他(購入品)	

旧引  
相製  
1999  
4.6

FULL-CAD



(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.

**MHI CONFIDENTIAL**

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

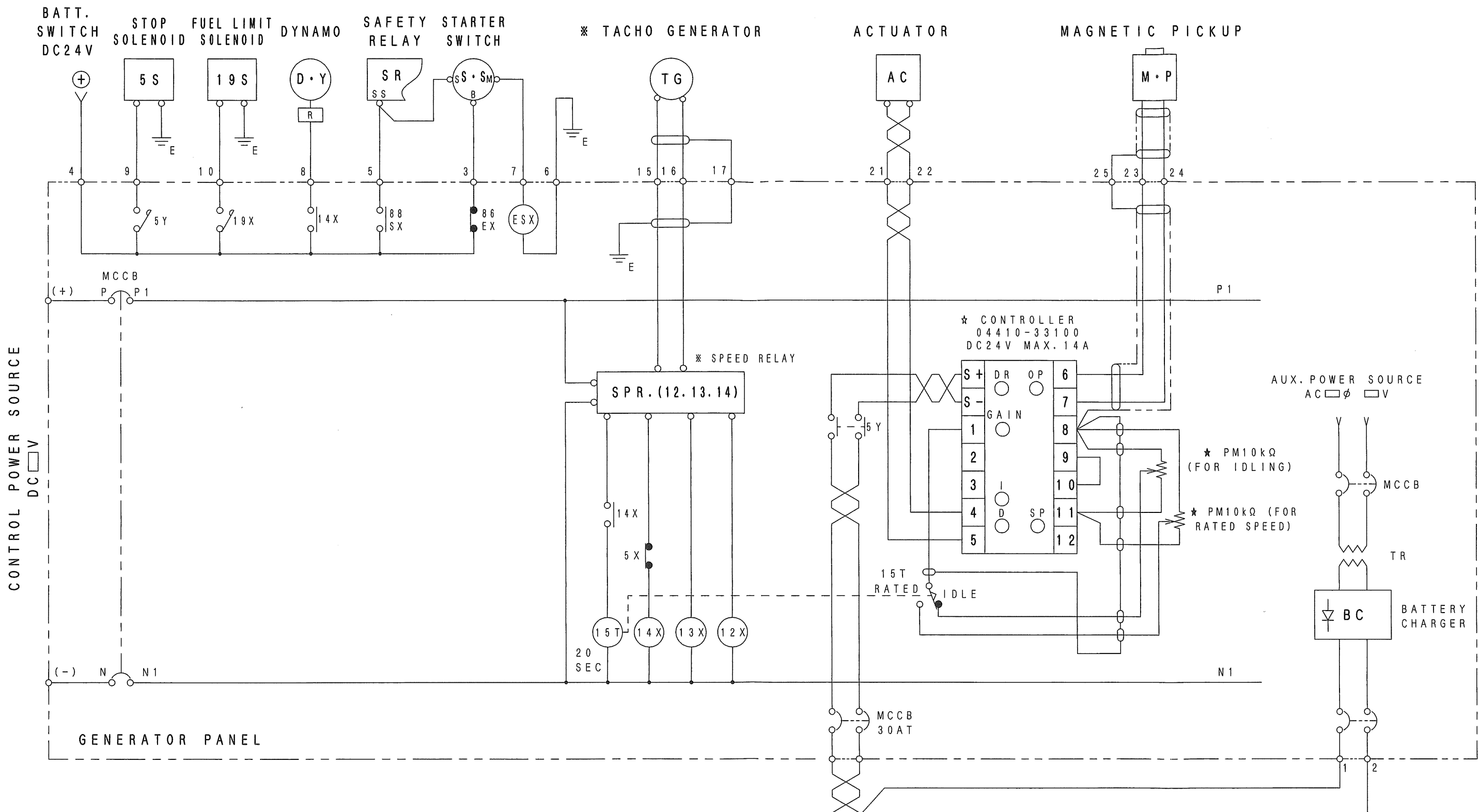
CHG	E0-N0	DATE	CHK
APPD	換圖	家 中	製圖
	谷	戸	2012.11.28

**S16R-2 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 HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 **37896-04029** 1/2

M/C



14X : CONTACT IS CLOSED ON ENGINE SPEED ESTABLISHMENT (ABOUT 450 R. P. M.).  
 5X : CONTACT IS OPENED ON STOP ORDER.  
 19X : CONTACT IS CLOSED ON START ORDER.  
 : CONTACT IS OPENED ON VOLTAGE ESTABLISHMENT.  
 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.  
 (ESX) : 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.

(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.

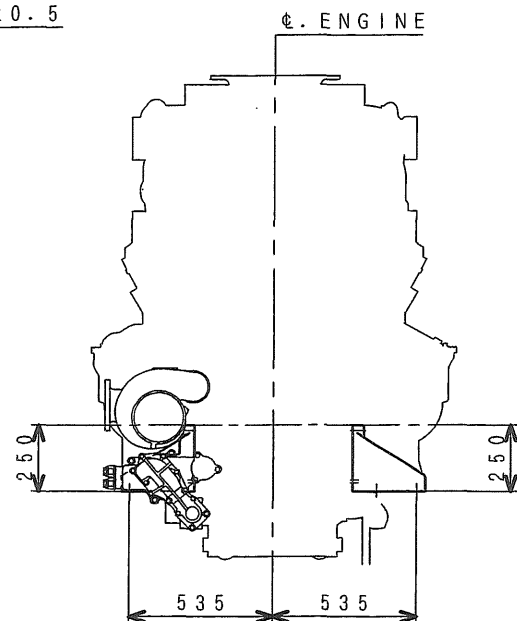
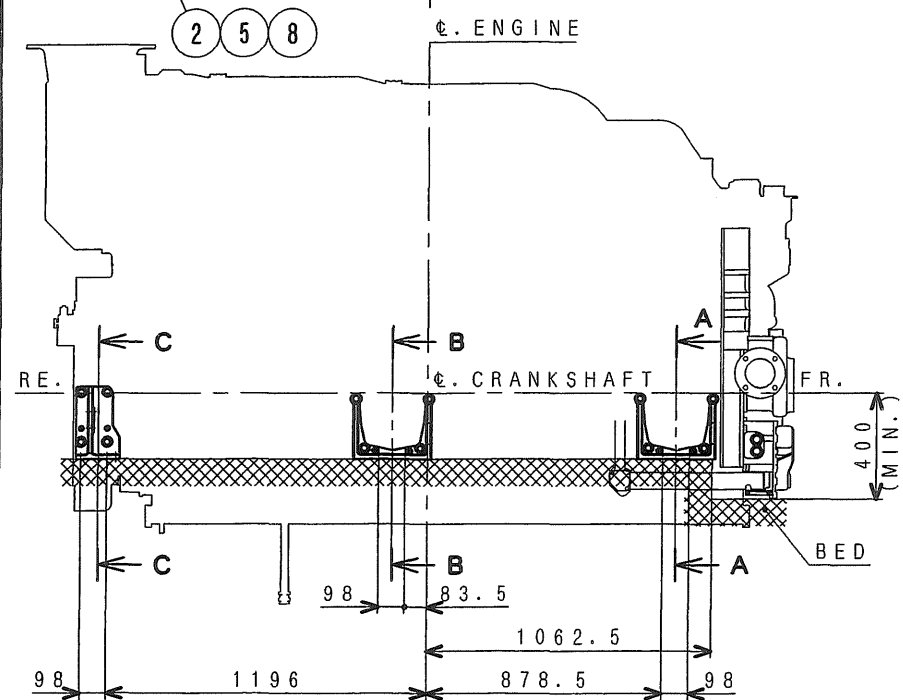
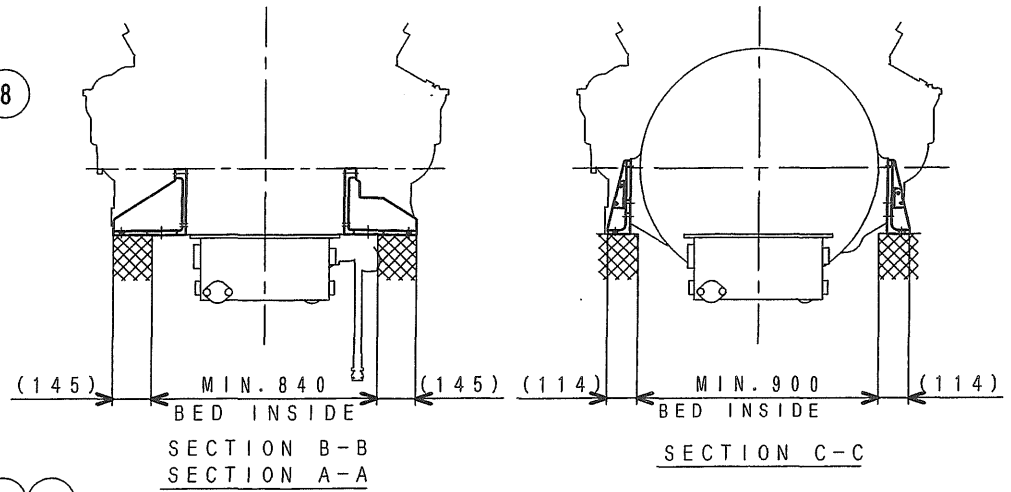
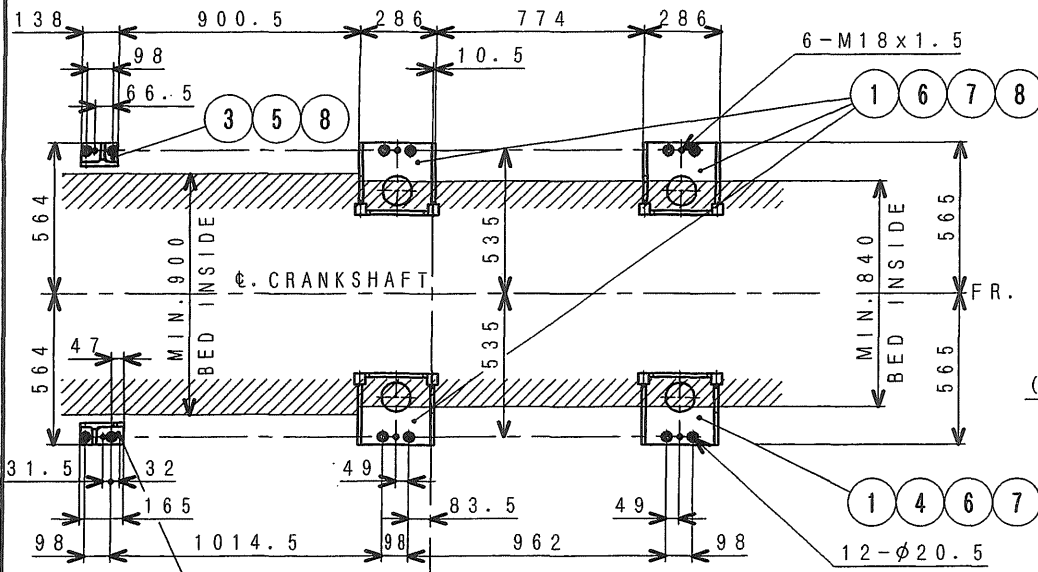
MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
APPD	12.		
CHK	家 中	製 図	谷
	本 村	DRN	戸
			2012.11.28

S16R-2 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 HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.  
 図番番号 37896-04029  
 2/2

① 新図 ② 訂正 ③ 相立図 ④ 納品書 ⑤ 検査書 ⑥ 部品表 ⑦ 材料表 ⑧ 工程表 ⑨ 検査票 ⑩ その他 (購入品)

M/C



8	33401-02600	WASHER	16
7	F1035-20075	BOLT	8
6	F1035-20050	BOLT	7
5	F1035-20045	BOLT	8
4	F1035-20035	BOLT	1
3	37714-42100	BRACKET, MTG. L	1
2	37714-32200	BRACKET, MTG. R	1
1	37714-20100	BRACKET, MTG. FR.	4
No.	PARTS NO.	PARTS NAME	Q'TY

MHI CONFIDENTIAL

注記 (1) 本図は、マウンティングセンターハイトC=250用である。

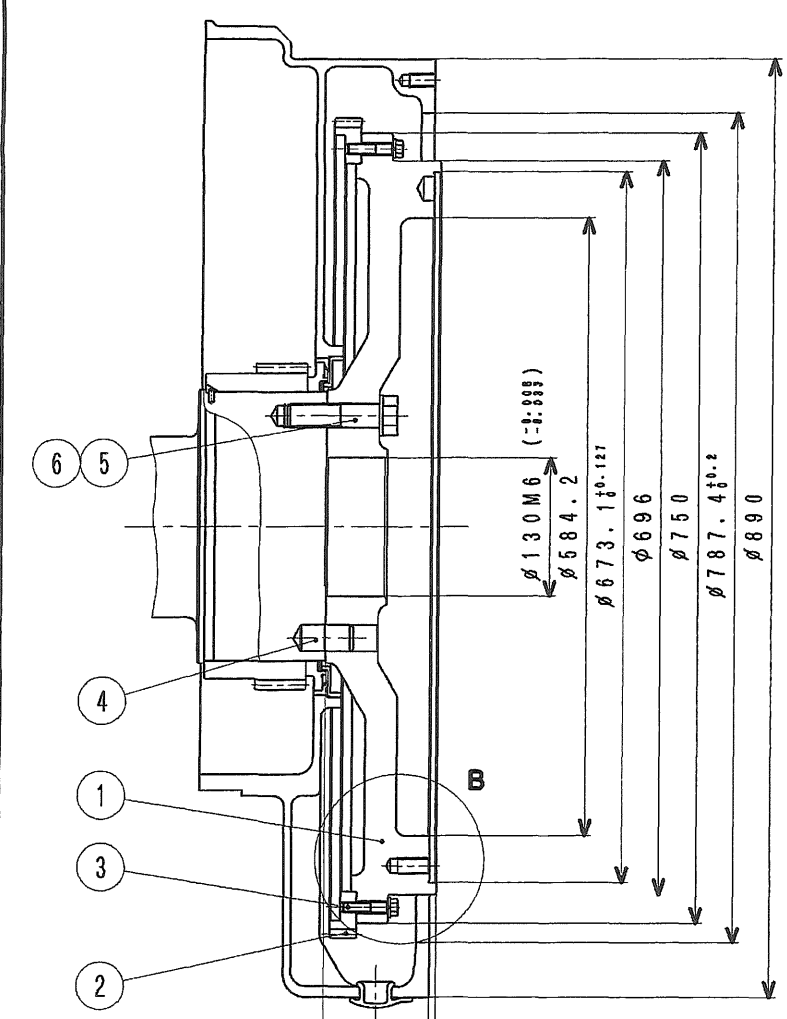
4590-4536	'98.8.18	福田
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4590-E901	'08.10.6	齊藤	製図	谷
4590-5477	'99.8.6	福田	検図	戸
4590-5002	'99.2.26	仁尾	認可	APPD
4590-H421	'12.11.19	谷戸	CHG	DRN
EO-NO	DATE	CHK	1998.8.20	

S16R  
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 37896-14001  
DRAWING No. 37896-14001

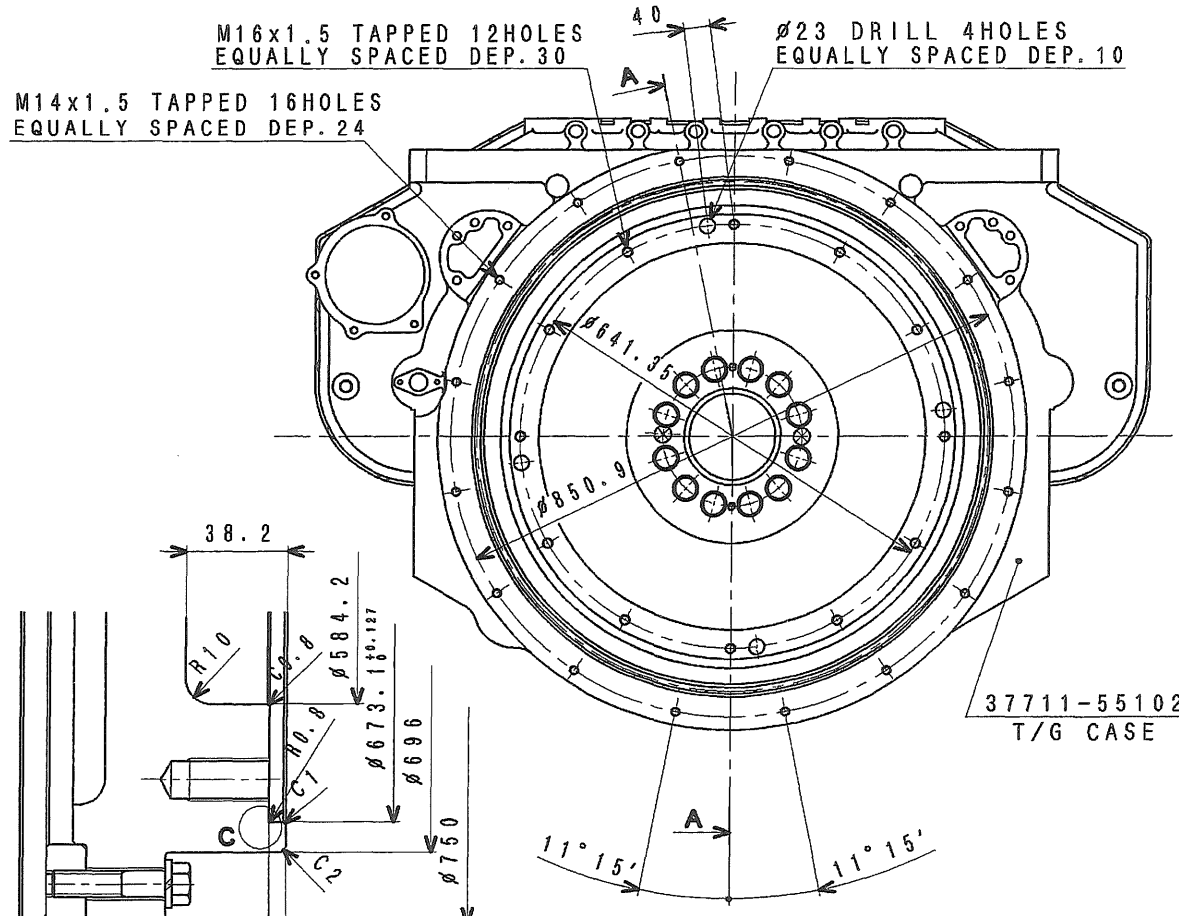
3 新図	サイズ A 3	① 相立図	2 購買標準品	3 合金溶接品	4 組立品
② 旧引図			5 切削品	6 その他(購入品)	

M/C

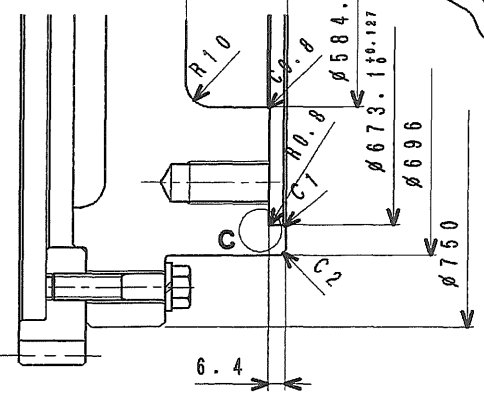


1214.9 TO  $\phi$ . ENGINE 106.5  
 1315 TO  $\phi$ . ENGINE 6.4  
 1321.4 TO  $\phi$ . ENGINE

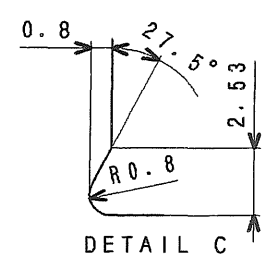
SECTION A-A



M16x1.5 TAPPED 12HOLES  
 EQUALLY SPACED DEP. 30  
 M14x1.5 TAPPED 16HOLES  
 EQUALLY SPACED DEP. 24  
 40  
 A  
 $\phi$ 23 DRILL 4HOLES  
 EQUALLY SPACED DEP. 10



DETAIL B



DETAIL C

37711-55102  
 T/G CASE

6	33707-11701	WASHER	12
5	F1035-22090	BOLT	12
4	37820-04600	PIN, DOWEL	2
3	F1805-10045	BOLT	12
2	37721-20201	GEAR, RING	1
1	37721-00601	FLYWHEEL	1
		37721-00061 F/W ASSY.	1
No.	PARTS NO.	PARTS NAME	Q'TY

MHI CONFIDENTIAL

3	4590-G654	'11. 3.28	青藤
2	4590-D678	'07.10. 4	青藤
1	4591-0261	'03. 9.12	福田
CHG	ED-NO	DATE	CHK
認可 APPD	橋	換図 CHK	竹 福 谷 田
		製図 DRN	谷 青 戸 藤
		1997. 8. 7	

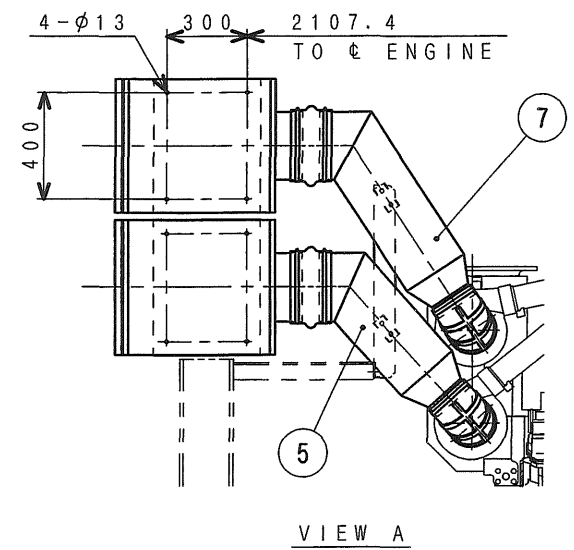
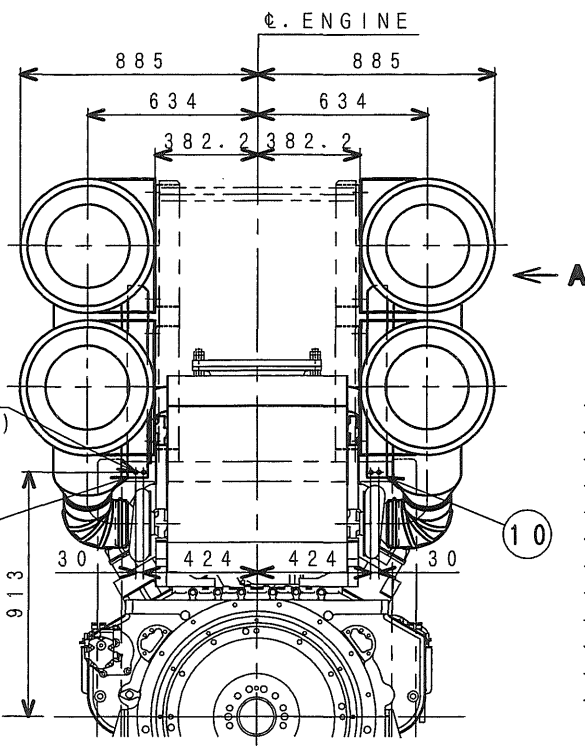
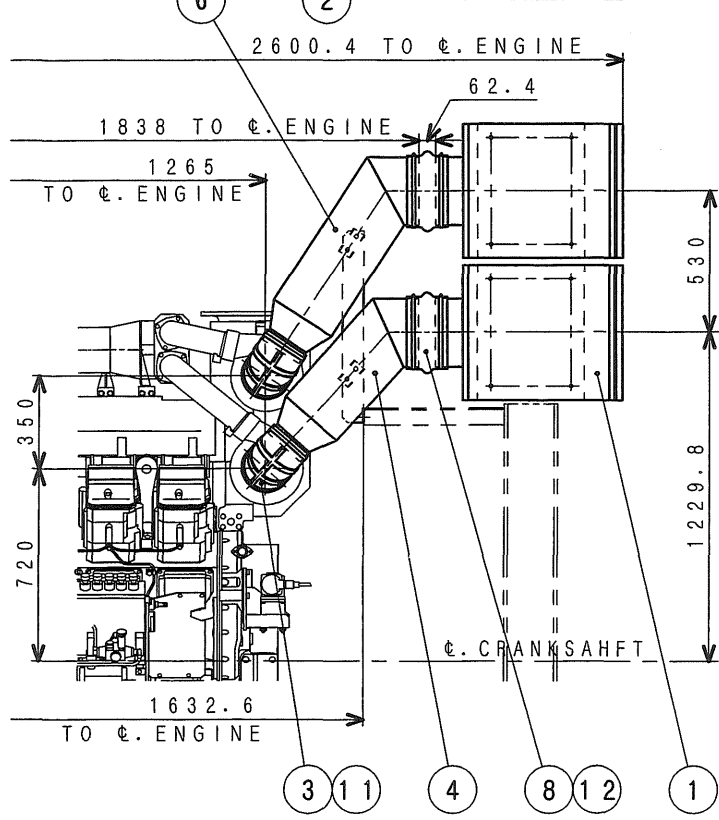
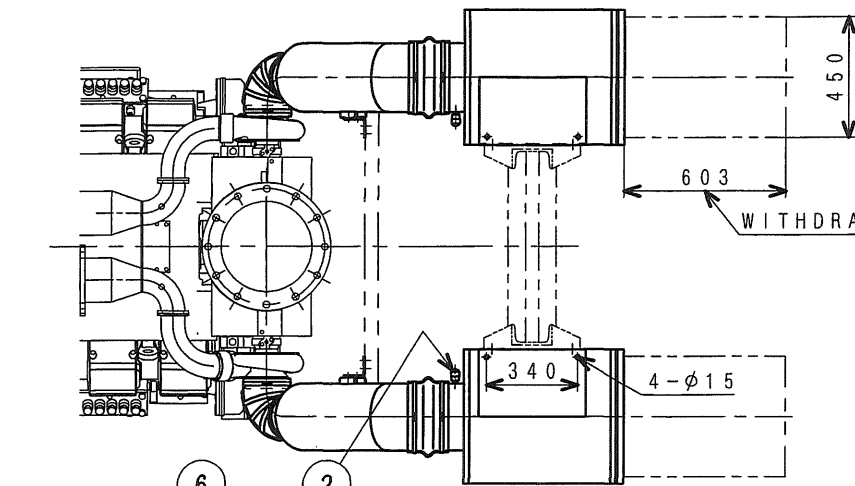
S16R  
 FLYWHEEL & HOUSING  
 三菱重工業株式会社 汎用機・特車事業本部  
 MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.  
 図面番号  
 DRAWING No. 37896-21001

(2) 本図のフライホイールは、部番37721-00061 F/W ASSY. に含まれる。  
 注記 (1) 本図は、標準フライホイール&ハウジングであり、SAEJ620c21inフライホイール  
 及びSAE617b NO. 00フライホイールハウジングに準拠する。

旧引  
 汎特  
 2011  
 12.12

FULL-CAD

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



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

☆ No.	PARTS NO.	PARTS NAME	Q'TY
☆ 12	05317-52801	CLAMP	8
☆ 11	05317-52001	CLAMP	8
☆ 10	47521-73900	STAY, AIR PIPE (R. H)	1
☆ 9	47521-73800	STAY, AIR PIPE (L. H)	1
☆ 8	47220-47300	HOSE, RUBBER	4
☆ 7	47521-74400	PIPE, AIR (R. H)	1
☆ 6	47521-74300	PIPE, AIR (L. H)	1
☆ 5	47521-74200	PIPE, AIR (R. H)	1
☆ 4	47521-74100	PIPE, AIR (L. H)	1
☆ 3	47220-47600	HOSE, ELBOW	4
☆ 2	47220-34401	INDICATOR   635mmH <sub>2</sub> O	4
☆ 1	47220-47703	CLEANER, AIR	4

注記 (1) 本図のエアクリーナは、ドナルドソン製EGB-20型である。

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK	 3rd ANGLE PROJECTION 尺度 SCALE
製図 APPD	検図 CHK	製図 DRN	谷 戸	
樋口			塚 中 村 本 村	2012.11.28

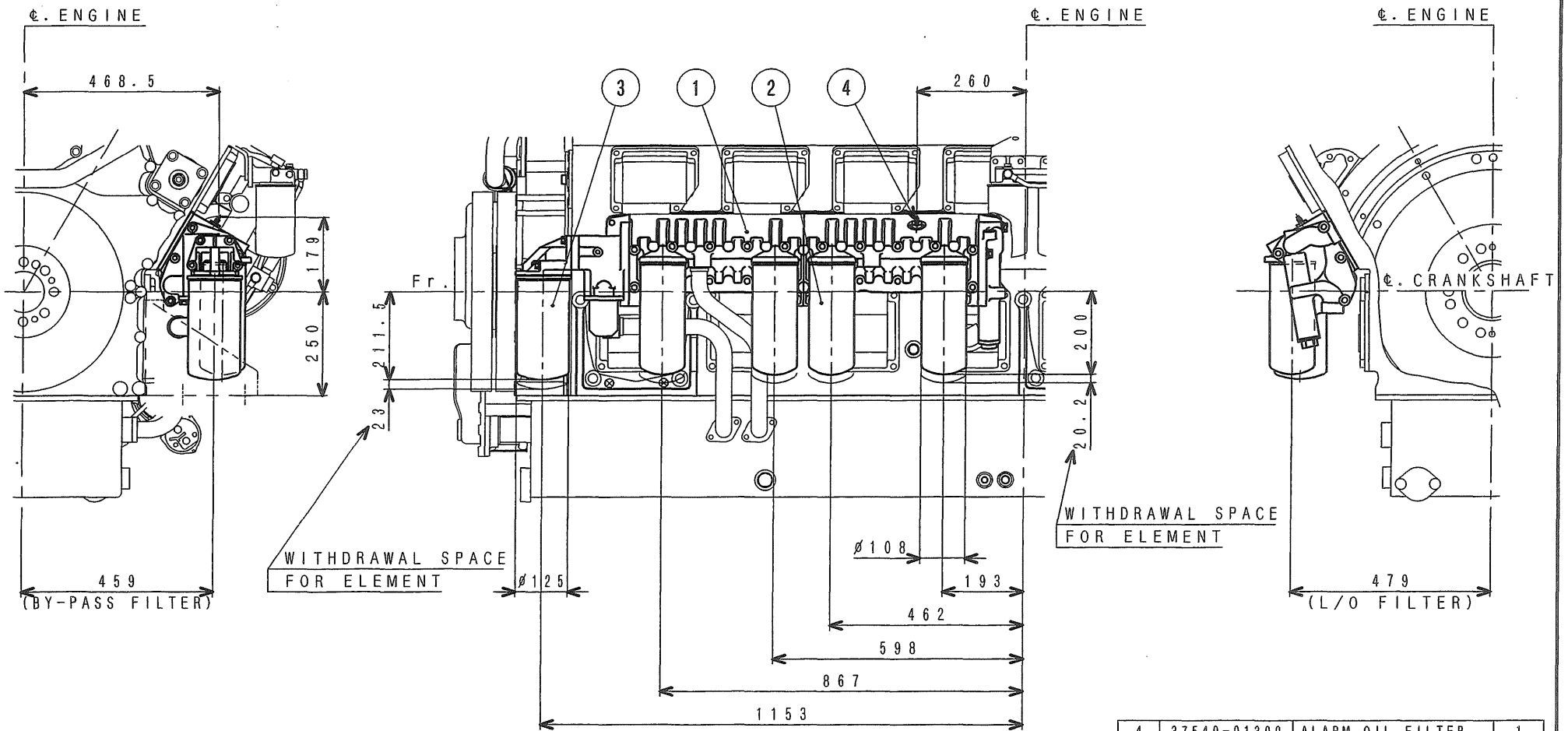
S16R-PTA2  
AIR CLEANER

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 37896-30308

M/C

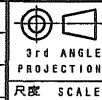
3 新図	サイズ A 3	① 組立図	2 磨損部品	3 板金溶接品	4 組立品
④ 旧引図			5 切削品	6 その他(購入品)	



4	37540-01300	ALARM, OIL FILTER	1
3	37540-02100	BY-BASS FILTER CARTRIDGE (1)	
2	37540-11100	ELEMENT, L/O. CTRG (4)	
1	37740-60010	OIL FILTER ASSY. L.H-P	1
No.	PARTS NO.	PARTS NAME	Q'TY

**MHI CONFIDENTIAL**

3	4590-H427	'12.11.19	谷戸
2	4590-E903	'08.10.6	齊藤
1	4590-7906	'01.6.20	福田
CHG	EO-NO	DATE	CHK
認可 APPD	検図 CHK	製図 DRW	谷 斎 戸 藤
	竹 福 谷 田	1997. 8. 7	



S16R

LUB. OIL FILTER

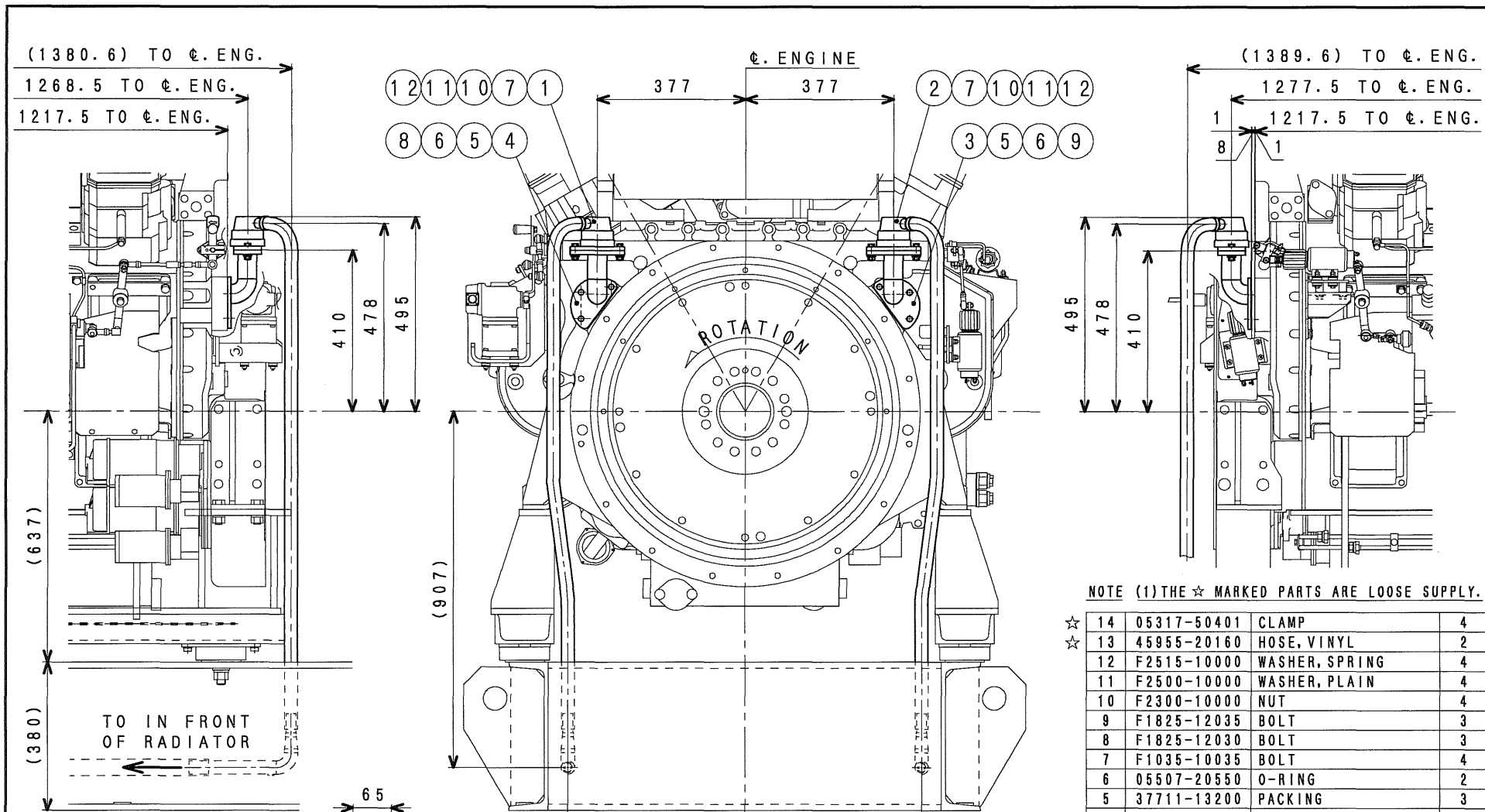
三菱重工業株式会社 汎用機・特車事業本部  
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号  
DRAWING No. 37896-40001

注記 (1) 本図は、標準4連オイルフィルタ装着図である。

3 新図 4 変更  
① 旧引図 A 3 ② 相立図 1 5 切替品 2 6 板金溶接品 3 4 組立品 6 その他(購入品)

M/C



NOTE (1) THE  $\star$  MARKED PARTS ARE LOOSE SUPPLY.

No.	PARTS NO.	PARTS NAME	Q'TY
$\star$ 14	05317-50401	CLAMP	4
$\star$ 13	45955-20160	HOSE, VINYL	2
12	F2515-10000	WASHER, SPRING	4
11	F2500-10000	WASHER, PLAIN	4
10	F2300-10000	NUT	4
9	F1825-12035	BOLT	3
8	F1825-12030	BOLT	3
7	F1035-10035	BOLT	4
6	05507-20550	O-RING	2
5	37711-13200	PACKING	3
4	47521-53101	PIPE, BREATHER LH	1
3	47521-53201	PIPE, BREATHER RH	1
2	47521-52900	BREATHER ASSY.	1
1	36243-10010	BREATHER ASSY.	1

出図  
 汎特  
 2010  
 6.11

FULL-CAD

CHG	EO-NO	DATE	CHK	3rd ANGLE PROJECTION 尺度 SCALE
認可 APPD	橋	換図 CHK	中谷村戸	製図 DRN 音藤
				2010. 6. 7

S16R

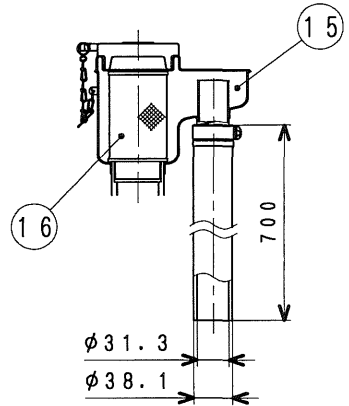
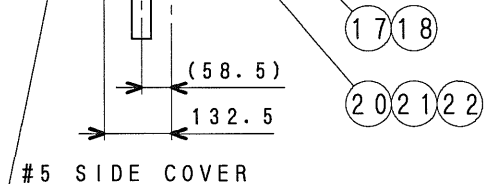
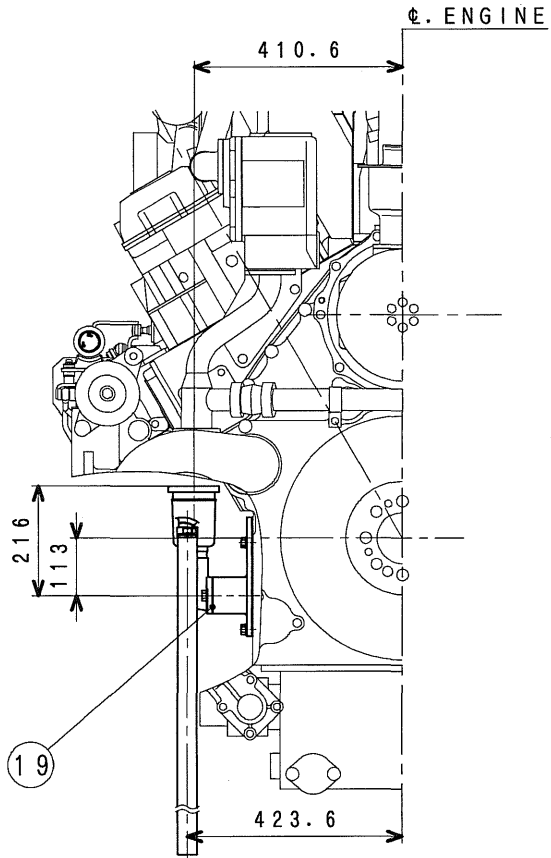
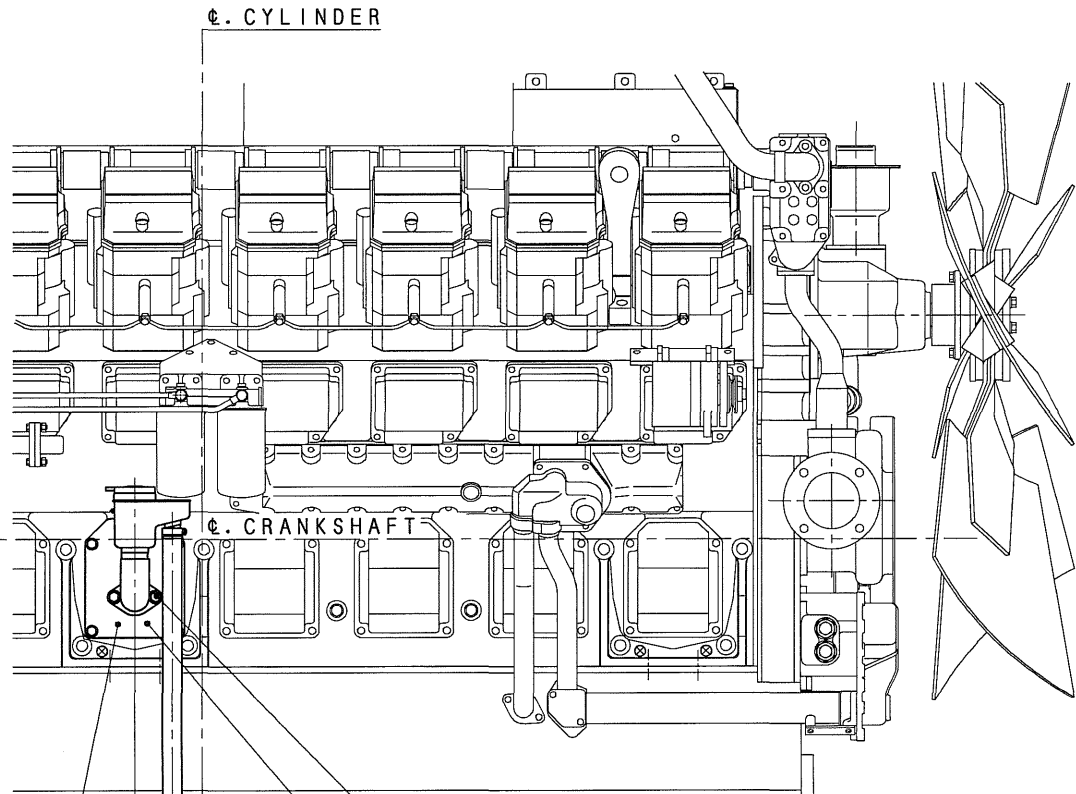
BREATHER

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 37896-43012 1/2  
 DRAWING No.

注記 (1) プリーザホースは、ブローパイガスをラジエータ前方に排出するよう配管接続する。

①新図 ②1/2 A ③組立図 ④2 銅線継手品 ⑤3 板金溶接品 ⑥4 組立品 ⑦5 切削品 ⑧6 その他(購入品)



DETAIL OF BREATHER

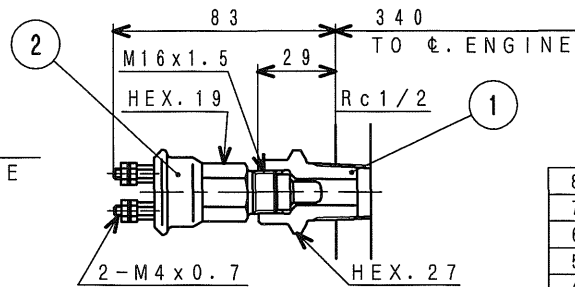
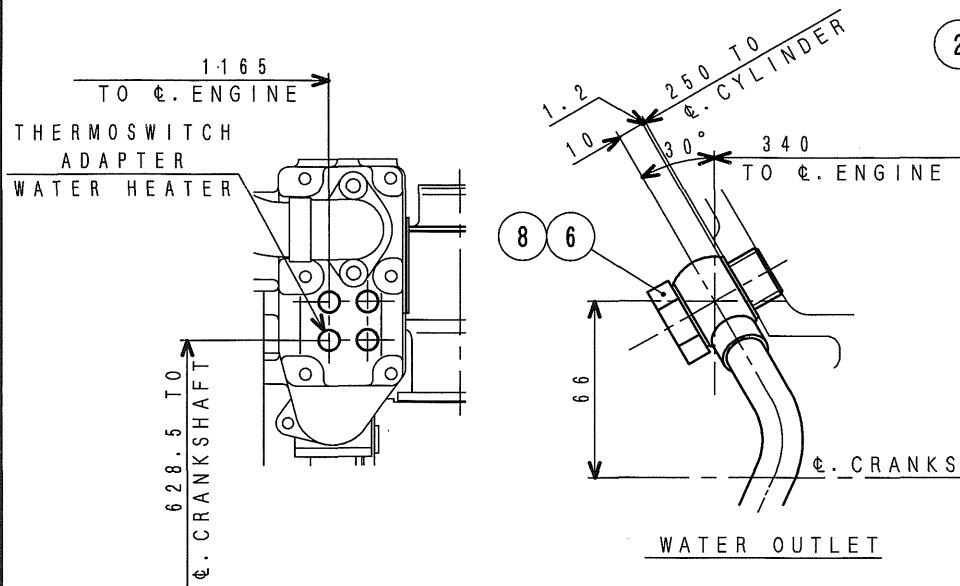
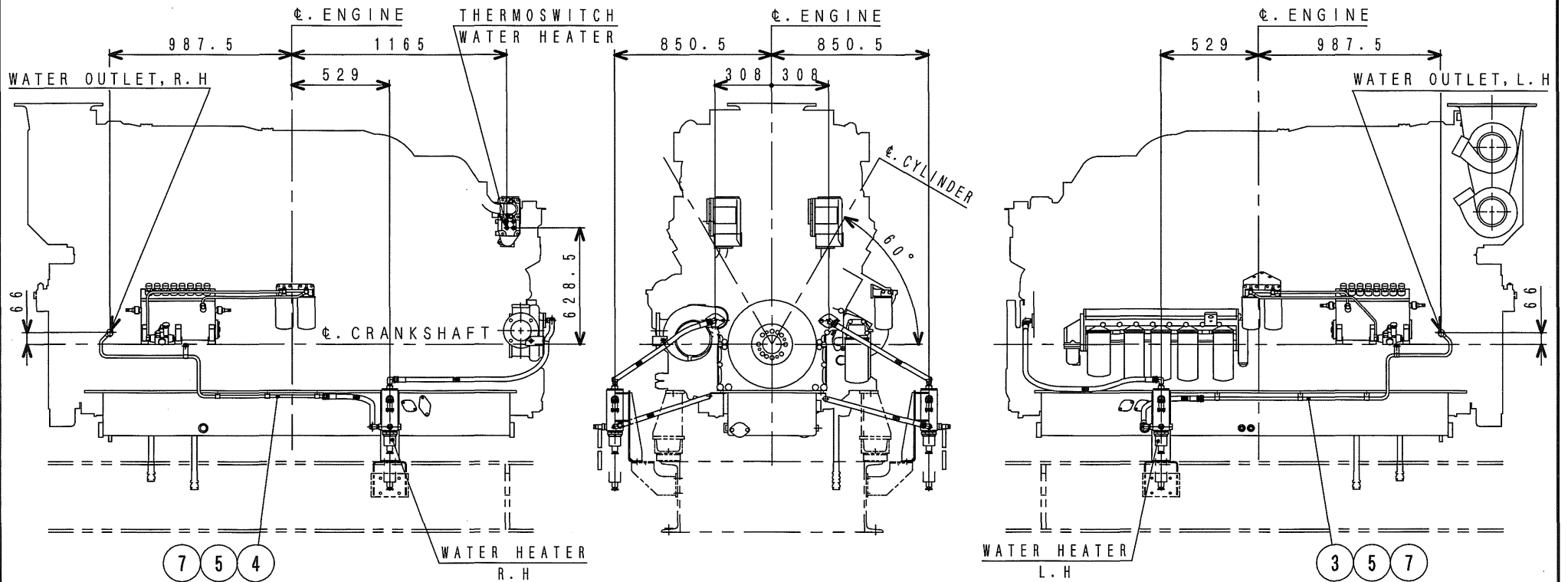
22	F1805-12030	BOLT WASHER ASSY	4
21	37707-17200	PACKING, SIDE COVER	1
20	37807-07300	COVER, SIDE BREATHER	1
19	35B36-02900	GASKET, OIL	2
18	F2515-12000	WASHER, SPRING	2
17	F1035-12030	BOLT	2
16	32542-11300	ELEMENT, BREATHER	1
15	37543-10020	BREATHER ASSY.	1
No.	PARTS NO.	PARTS NAME	Q'TY

出図  
  
 汎特  
 2010  
 6.11

FULL-CAD

 3rd ANGLE PROJECTION 尺度 SCALE			
<b>S16R</b> <b>BREATHER</b> 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. <b>37896-43012</b> <span style="float: right;">2/2</span>			
CHG APPD 橋 口	EO-NO 橋 村 戸	DATE 2010. 6. 7	CHK 奇 藤

①新図 ②サイズ ③組立図 ④ 2 鋳造部品 ⑤ 3 板金部品 ⑥ 4 組立品  
 ⑦ 5 引図 ⑧ A 3 ⑨ 5 切削品 ⑩ 6 その他(購入品)



THERMOSWITCH

MHI CONFIDENTIAL

8	05946-02001	WASHER, SEALING	4
7	F2515-12000	WASHER	2
6	F4610-20000	BOLT, EYE	2
5	F1035-12060	BOLT	2
4	47520-65402	PIPE, WATER	1
3	47520-65500	PIPE, WATER	1
2	04442-30210	SWITCH, THERMO 42COFF	1
1	45600-42902	CONNECTOR	1
No.	PARTS NO.	PARTS NAME	Q'TY

CHG	EO-NO	DATE	CHK	3rd ANGLE PROJECTION 尺度 SCALE
認可 APPD	検図 CHK	塚 中 本 村	製図 DRN	谷 戸
			2012.12.7	

S16R

WATER HEATER PIPING

三菱重工業株式会社 汎用機・特車事業本部

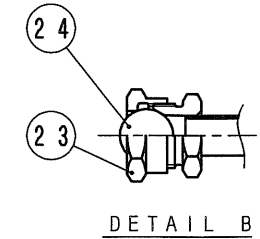
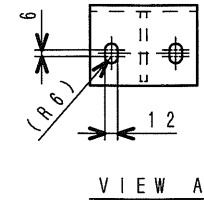
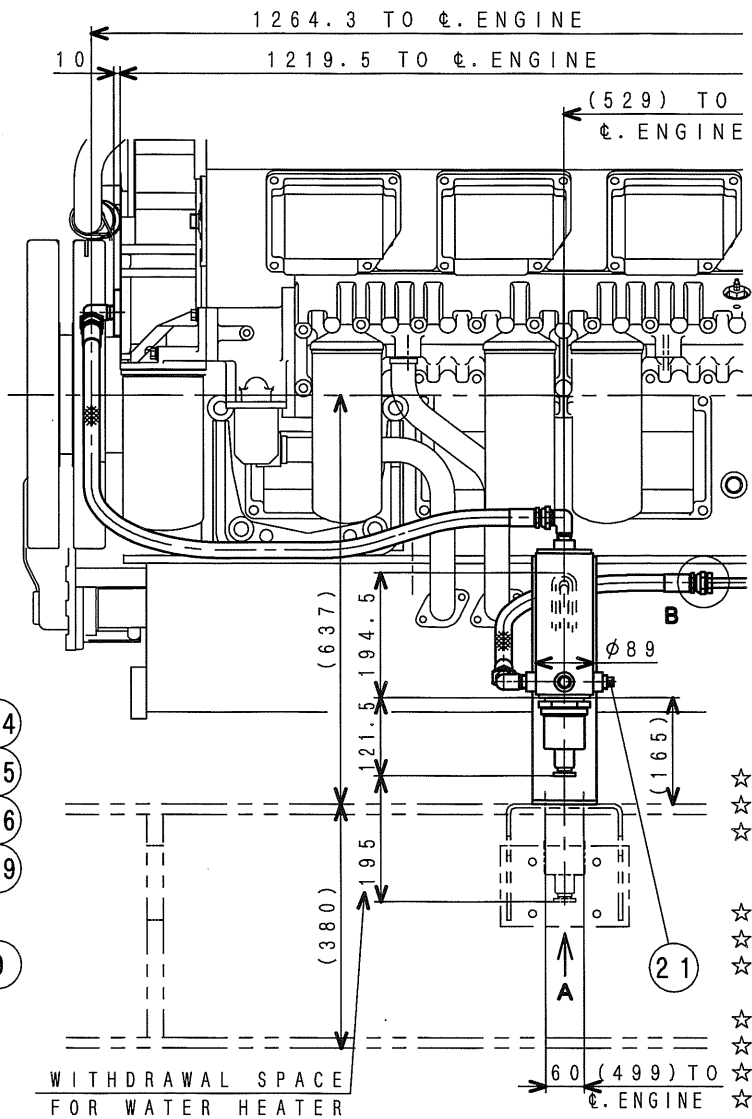
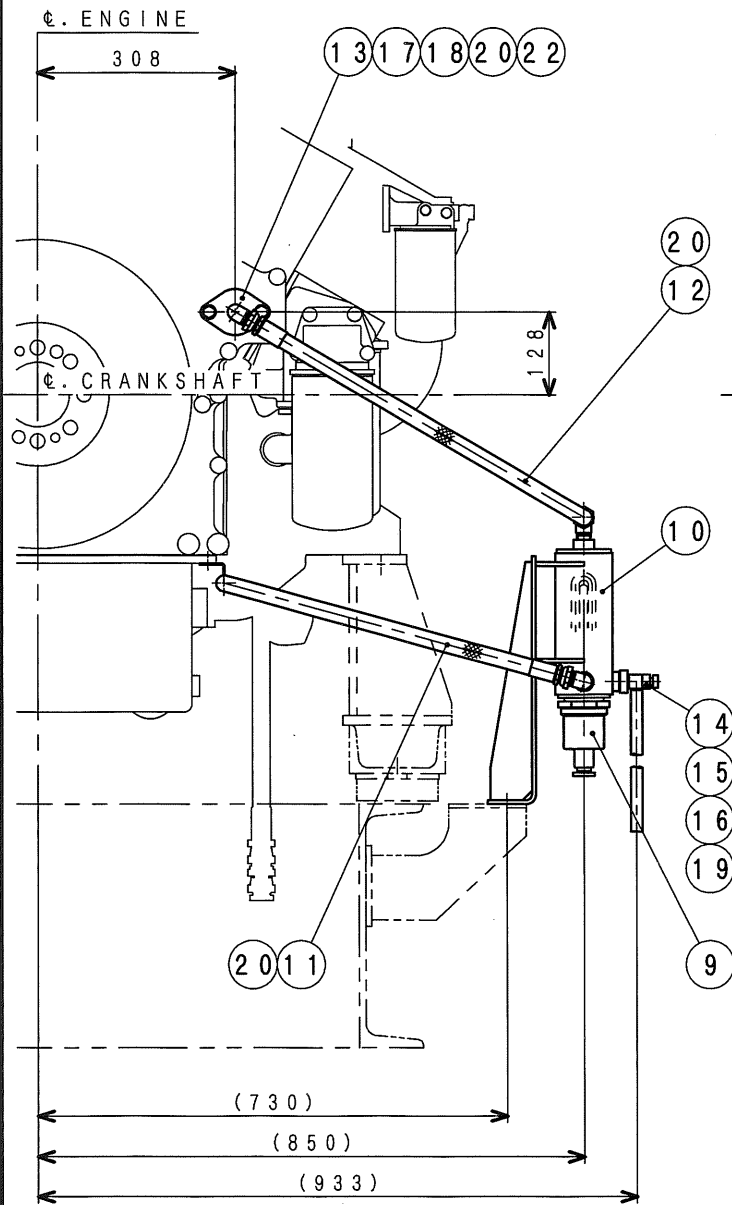
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号  
DRAWING No. 37896-46306

1/3

① 新図 ② サイズ A ③ 組立図 ④ 旧引図 ⑤ 脚線圖事項 ⑥ 板金溶接品 ⑦ 組立品 ⑧ 切削品 ⑨ その他(購入品)

M/C



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

24	F8000-25000	BALL, STEEL	2	
23	00426-15011	NUT, UNION	2	
22	F5006-21000	PLUG, TAPER	2	
21	F5006-21000	PLUG, TAPER	2	
☆	20	F4656-15000	ELBOW	6
☆	19	F4300-01600	CLAMP, HOSE	2
☆	18	F3153-05500	O-RING	2
☆	17	F1805-12025	BOLT	4
☆	16	05946-02001	WASHER, SEALING	2
☆	15	33407-16100	COCK, DRAIN	2
☆	14	30007-65200	VINYL HOSE	2
☆	13	42800-53802	COVER	2
☆	12	45961-13125	PIPE, FLEXIBLE	1
☆	11	45961-13079	PIPE, FLEXIBLE	1
☆	10	47521-62901	CASE, HEATER	2
☆	9	04393-XXXX	HEATER, WATER	2
No.	PARTS NO.	PARTS NAME	Q'TY	

注記 (1) 本図の符合(22), (23), (24) は、W/H配管専用である。

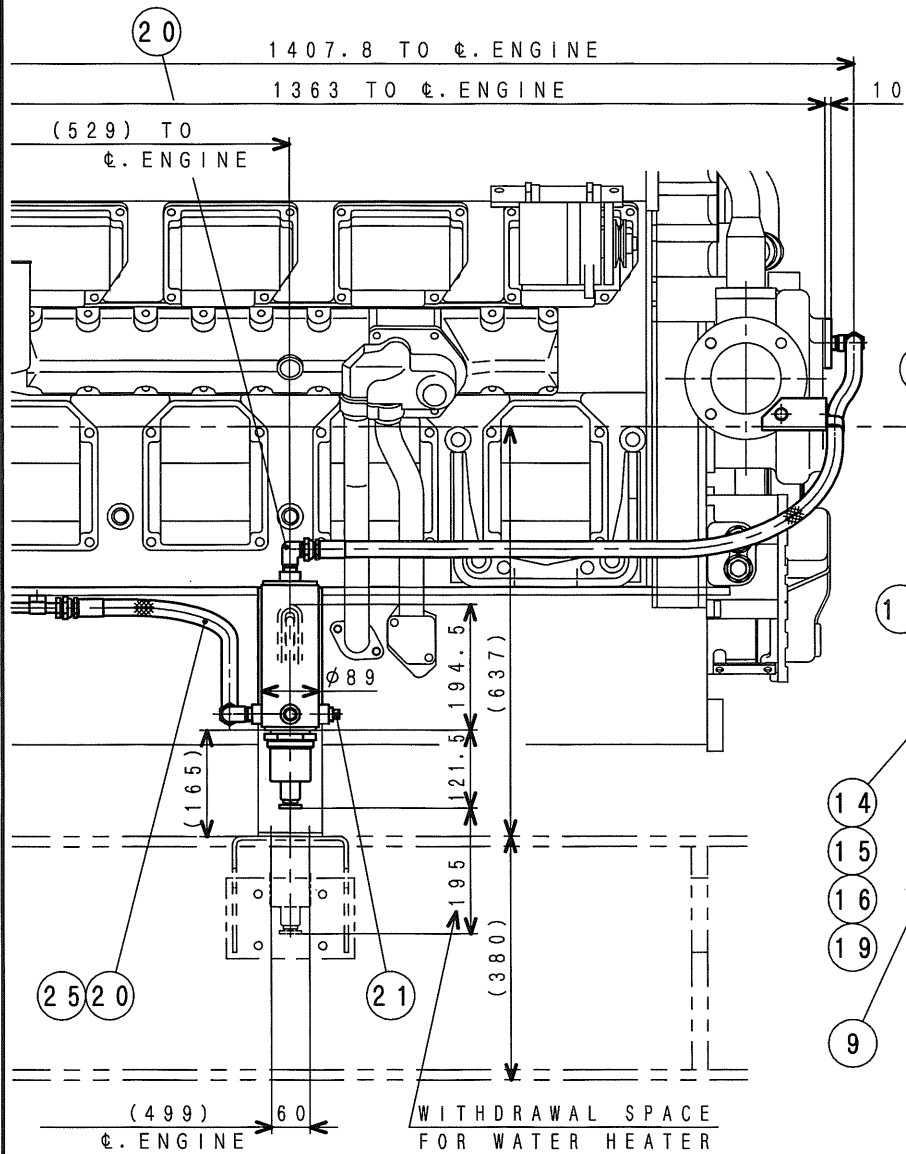
MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK	3rd ANGLE PROJECTION 尺度 SCALE
認可 APPD	校図 CHK	塚 中 本 村	製図 DRN	谷 戸
			2012.12.7	

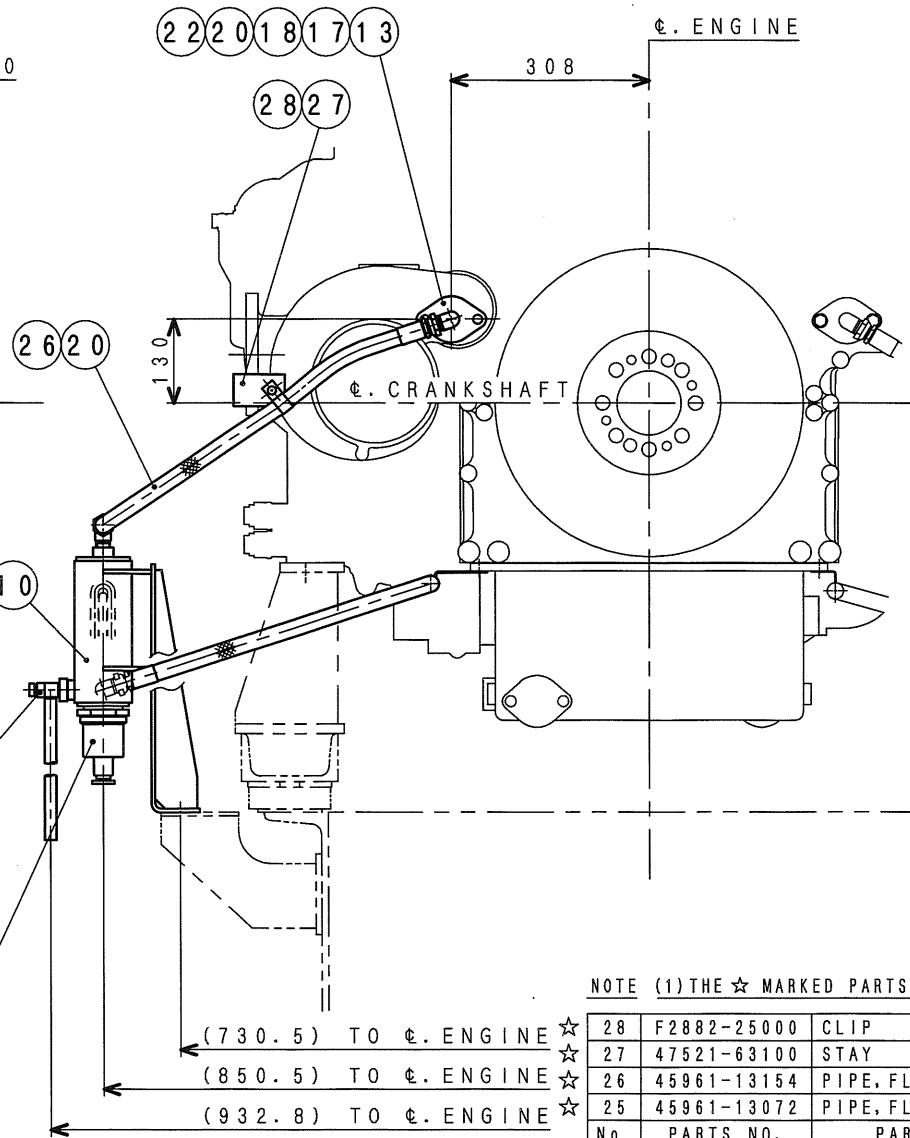
S16R  
**WATER HEATER PIPING**  
 三菱重工業株式会社 汎用機・特車事業本部  
 MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.  
 図面番号 **37896-46308**  
 DRAWING No. 2/3

①新図 ②サイズ ③組立図 ④切削品 ⑤鋼線管等品 ⑥板金溶接品 ⑦組立品 ⑧その他(購入品)

M/C



R. H



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

☆	28	F2882-25000	CLIP	1
☆	27	47521-63100	STAY	1
☆	26	45961-13154	PIPE, FLEXIBLE	1
☆	25	45961-13072	PIPE, FLEXIBLE	1
	No.	PARTS NO.	PARTS NAME	Q'TY

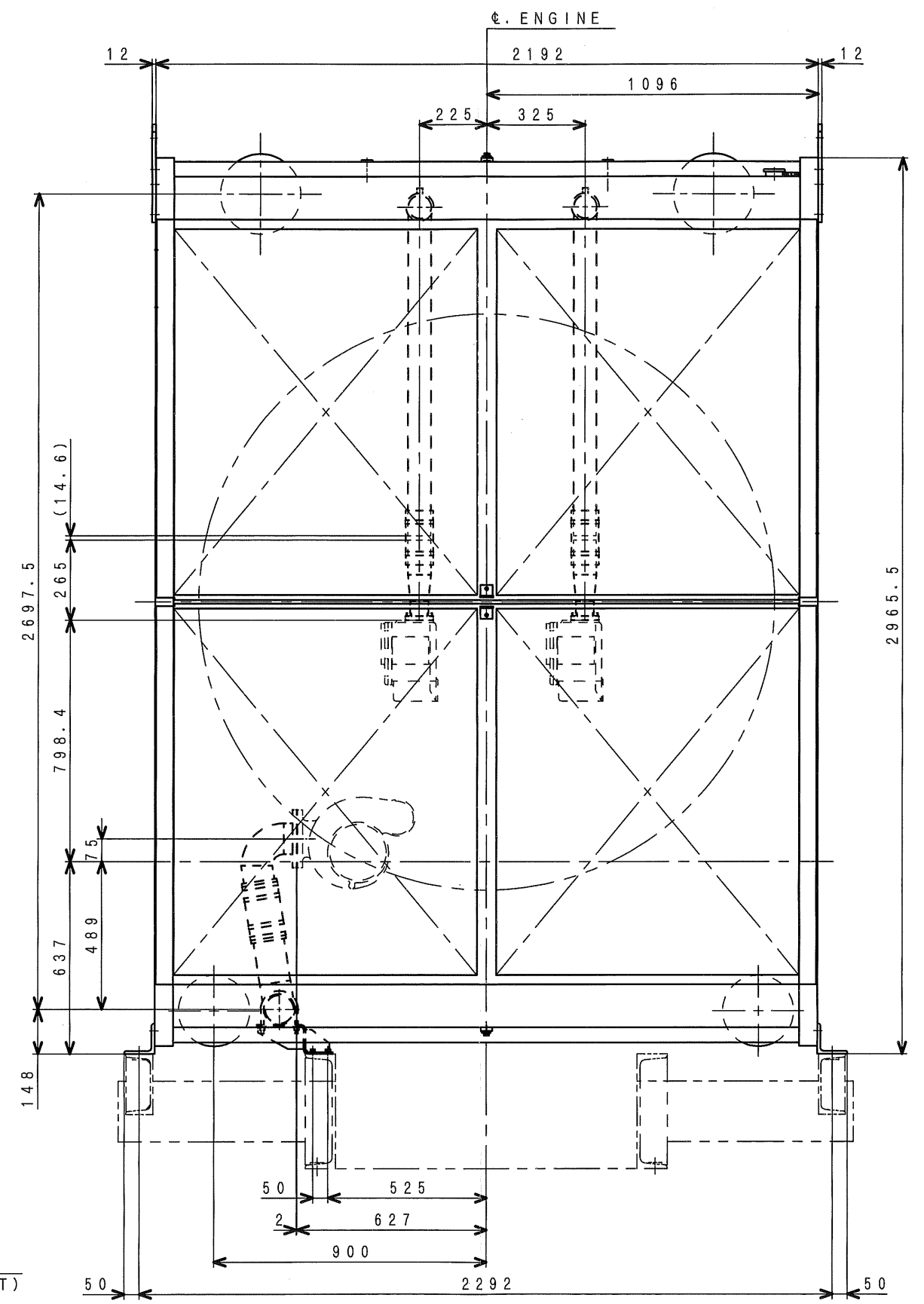
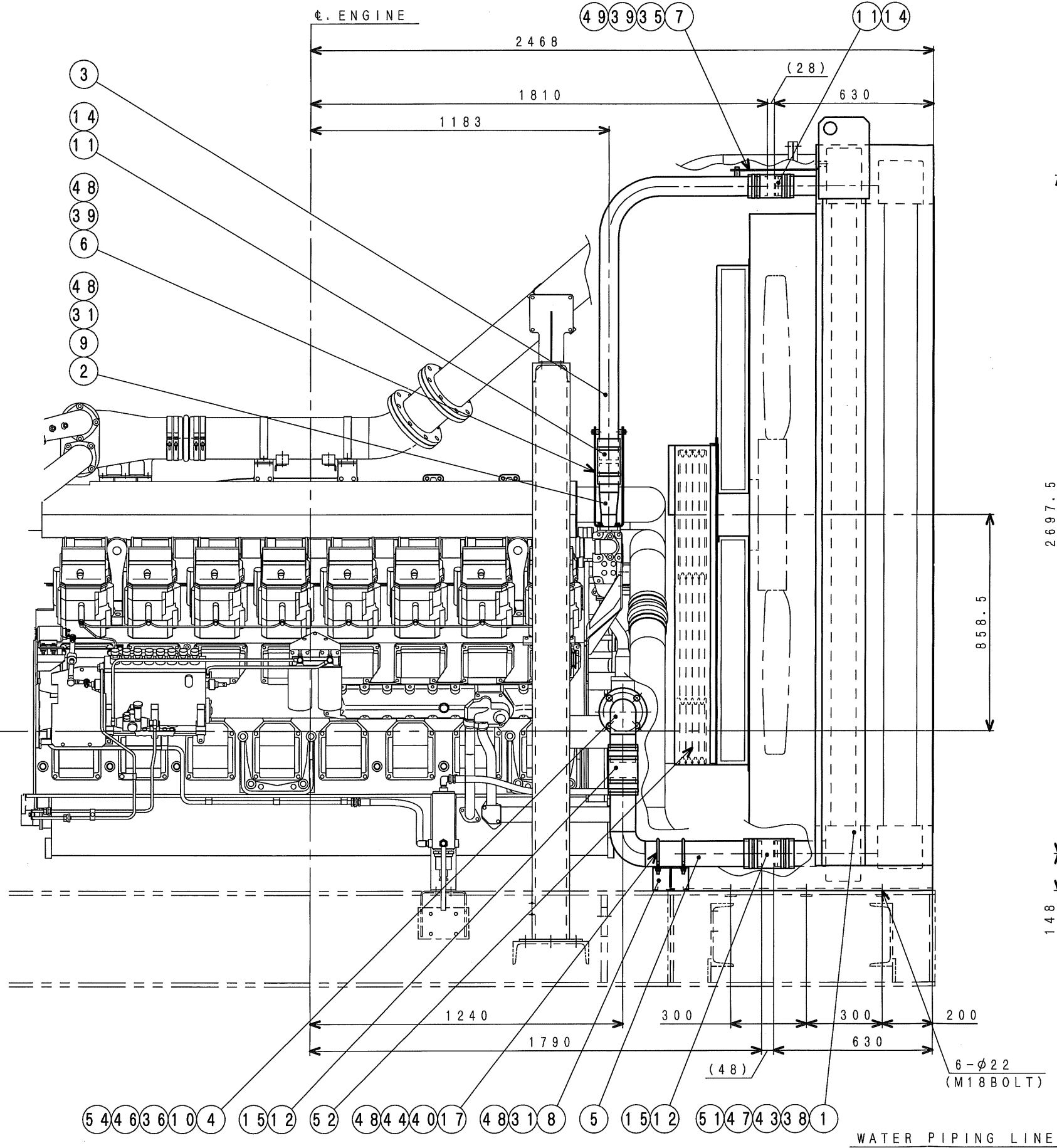
MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK	3rd ANGLE PROJECTION 尺度 SCALE
認可 APPD	検図 CHK	塚中 本村	製図 DRN	谷 戸
			2009.12.7	

S16R  
**WATER HEATER 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 37896-46308  
 DRAWING No. 37896-46308 3/3

M/C

①新図 ②サイズ ③組立図 ④ 4 旧引図 A 3 ⑤ 2 鋼線管部品 ⑥ 3 板金溶接品 ⑦ 4 組立品 ⑧ 5 切削品 ⑨ 6 その他(購入品)



注記 (1) 本図は、S16R-PTAA2/AIR TO AIR ENG. のRADIATOR & AIR COOLERパイピング図である。  
 (2) 本図は、図番37896-47006に対し、別送品のボルト、ナット、ワッシャを客先手配としたものである。

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
認可 APPD	検図 CHK	塚 中 本 村	製図 DRN
2012.12.7		谷 戸	

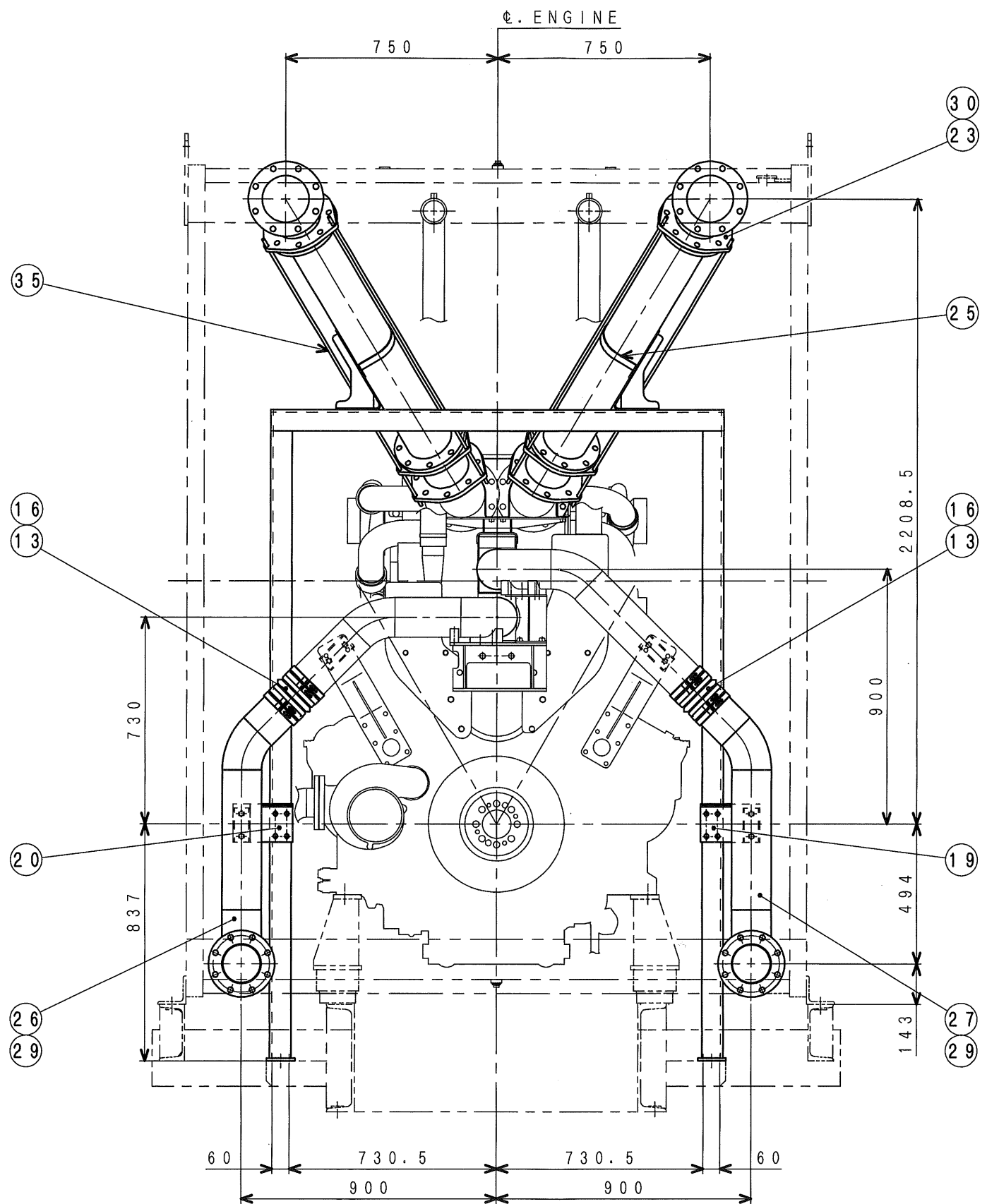
S16R-PTAA2  
 RADIATOR PIPING  
 三菱重工業株式会社 汎用機・特車事業本部  
 GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.  
 図面番号  
 DRAWING No. 37896-47007 1/3

①新図 ②サイズ ③組立図 ④特車部品 ⑤板金溶接品 ⑥組立品  
 ⑦旧引図 ⑧A ⑨組立図 ⑩5 切形品 ⑪その他(購入品)

M/C



AIR PIPING LINE



(4) 符号(18)は、図番S35-0920を参考にして製作のこと。

注記 (3) 符号(18)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。

NOTE (3) NO. (18) AIR PIPE STAND IS NOT SUPPLY FROM MHI.

SHOULD BE PREPARE BY D/GSET MANUFACTURER.

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
路可 APPD	橋口	換図 CHK	塚 本 村
2012.12.7		製図 DRN	
2012.12.7		谷 戸	

S16R-PTAA2  
RADIATOR PIPING  
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.  
図番番号 37896-47007 2/3

① 新図 ② 訂正図 ③ 組立図 ④ 組立品 ⑤ 組立品 ⑥ 組立品 ⑦ 組立品 ⑧ 組立品 ⑨ 組立品 ⑩ 組立品 ⑪ 組立品 ⑫ 組立品 ⑬ 組立品 ⑭ 組立品 ⑮ 組立品 ⑯ 組立品 ⑰ 組立品 ⑱ 組立品 ⑲ 組立品 ⑳ 組立品 ㉑ 組立品 ㉒ 組立品 ㉓ 組立品 ㉔ 組立品 ㉕ 組立品 ㉖ 組立品 ㉗ 組立品 ㉘ 組立品 ㉙ 組立品 ㉚ 組立品 ㉛ 組立品 ㉜ 組立品 ㉝ 組立品 ㉞ 組立品 ㉟ 組立品 ㊱ 組立品 ㊲ 組立品 ㊳ 組立品 ㊴ 組立品 ㊵ 組立品 ㊶ 組立品 ㊷ 組立品 ㊸ 組立品 ㊹ 組立品 ㊺ 組立品 ㊻ 組立品 ㊼ 組立品 ㊽ 組立品 ㊾ 組立品 ㊿ 組立品

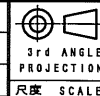
M/C

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

☆	35	37831-10901	TURNBUCKLE	6
☆	34	37748-08200	V-BELT	1
	33	F2515-16000	WASHER, SPRING	4
	32	F2500-16000	WASHER, PLANE	4
	31	F1035-16040	BOLT	4
☆	30	47941-33060	GASKET	8
☆	29	47941-33050	GASKET	2
☆	28	37831-02400	JOINT, FLEX. 150A	2
☆	27	37831-02903	DUCT, AIR I/C-A	1
☆	26	37831-31103	DUCT, AIR I/C-A	1
☆	25	37831-01600	CLAMP, AIR DUCT	2
☆	24	37831-01902	STAY, AIR DUCT	2
☆	23	37831-00803	DUCT, AIR I/C	1
☆	22	37831-00703	DUCT, AIR T/C-I/C	1
☆	21	37831-00603	DUCT, AIR T/C-I/C	2
☆	20	47510-76420	STAY, AIR PIPE	1
☆	19	47510-76410	STAY, AIR PIPE	1
☆	(18)	(47510-70502)	(STAND, AIR PIPE)	(1)
☆	17	45790-60900	U-BOLT	2
☆	16	04830-01460	CLAMP	8
☆	15	05317-51401	CLAMP	8
☆	14	05317-51001	CLAMP	16
☆	13	37531-05201	HOSE, RUBBER	2
☆	12	45960-19020	HOSE, RUBBER	2
☆	11	F4010-76018	HOSE, RUBBER	4
☆	10	04826-28090	GASKET	1
☆	9	F3153-07500	O-RING	2
☆	8	47523-61700	STAY, PIPE	1
☆	7	47523-60500	STAY, PIPE	2
☆	6	47520-68700	STAY, PIPE	4
☆	5	47523-60300	PIPE, WATER	1
☆	4	47523-60200	PIPE, WATER	1
☆	3	47523-60400	PIPE, WATER	2
☆	2	47510-61601	PIPE, WATER	2
☆	1	37847-11300	RADIATOR I/C ASSY.	1
	No.	PARTS NO.	PARTS NAME	Q'TY

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
認可 APPD	検図 CHK		製図 DRN
中 谷		戸	
本 村		2012.12.7	



S16R-PTAA2

RADIATOR PIPING

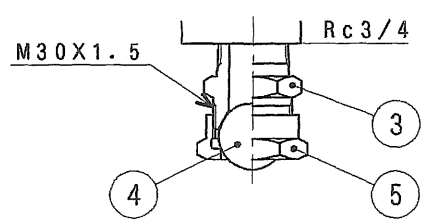
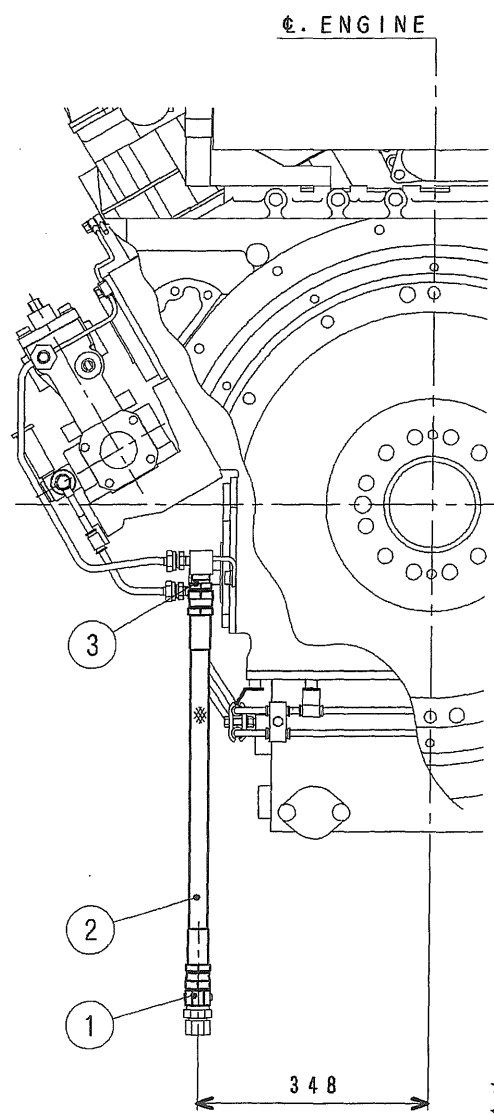
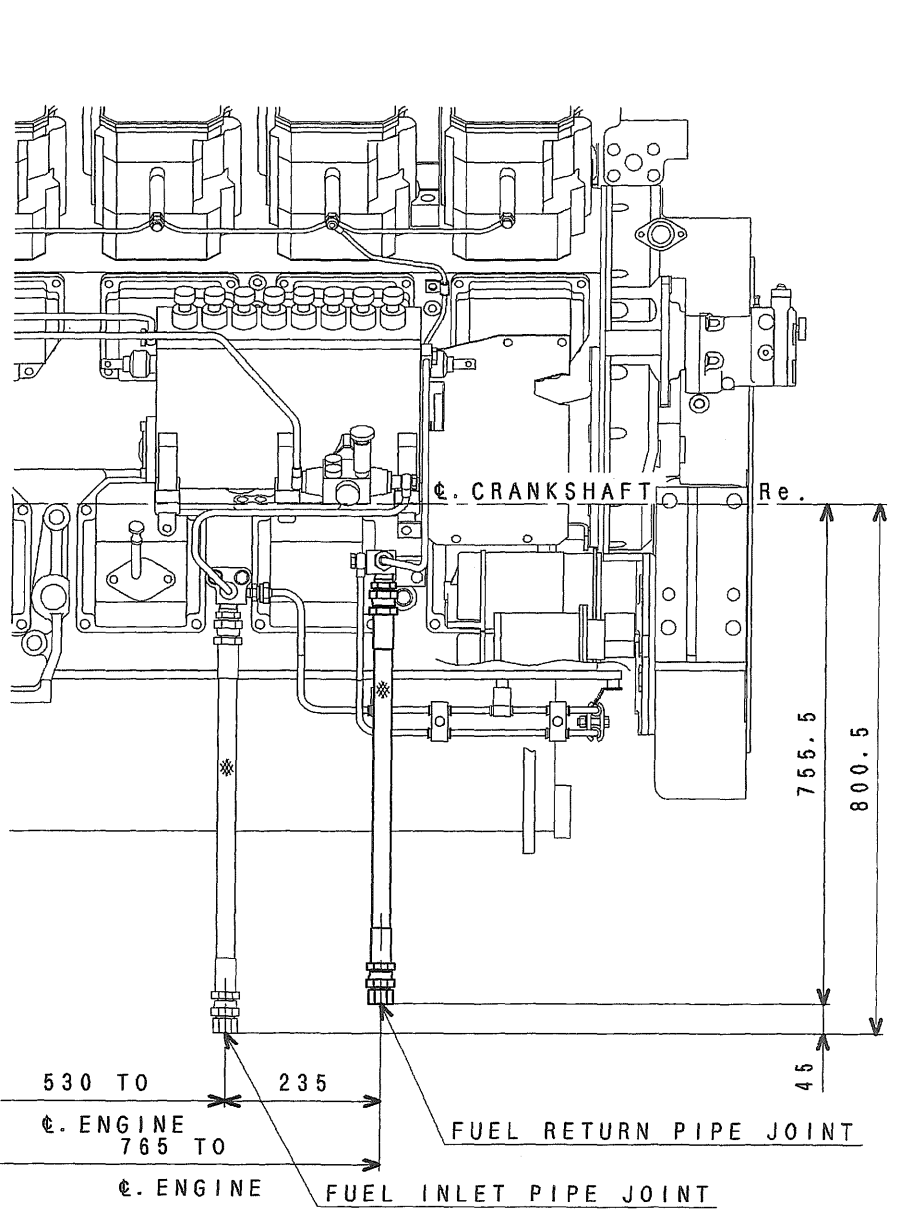
三菱重工業株式会社 汎用機・特車事業本部  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号  
DRAWING No. 37896-47007

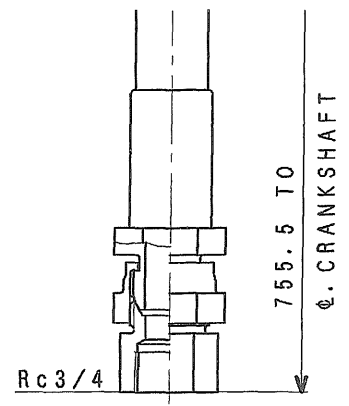
3/3

①新図 ②相立図 ③購入品 ④他社品  
④旧引図 ⑤A3 ⑥その他(購入品)

M/C



FUEL RETURN PIPE JOINT



FUEL RETURN PIPE JOINT

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

NO.	PARTS NO.	PARTS NAME	Q'TY
5	F4521-20000	NUT, UNION	1
4	F8000-32000	STEEL BALL, BEARING	1
3	F4540-20000	CONNECTOR	1
2	45950-51700	PIPE, FLEXIBLE	1
☆ 1	45950-11300	CONNECTOR	1

出図  
 汎特  
 2008  
 12.12

FULL-CAD

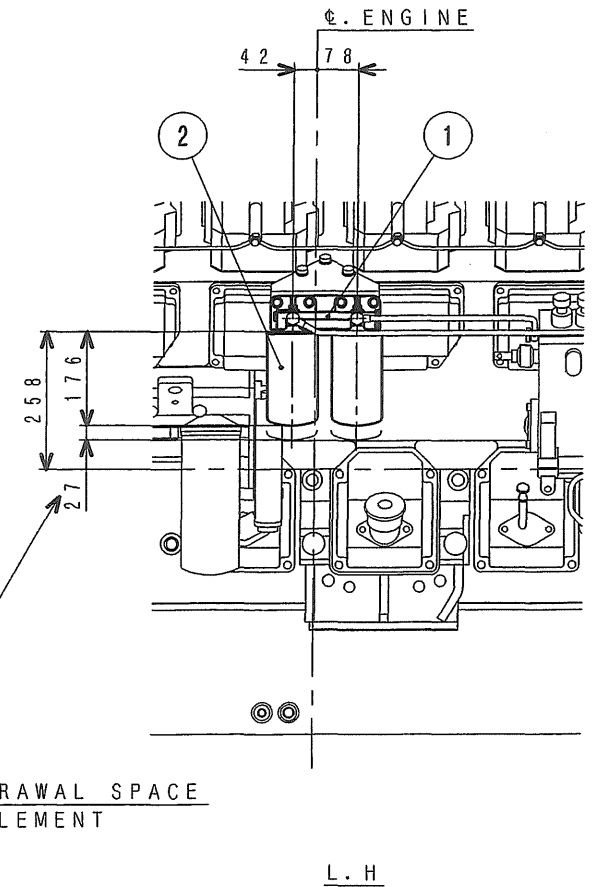
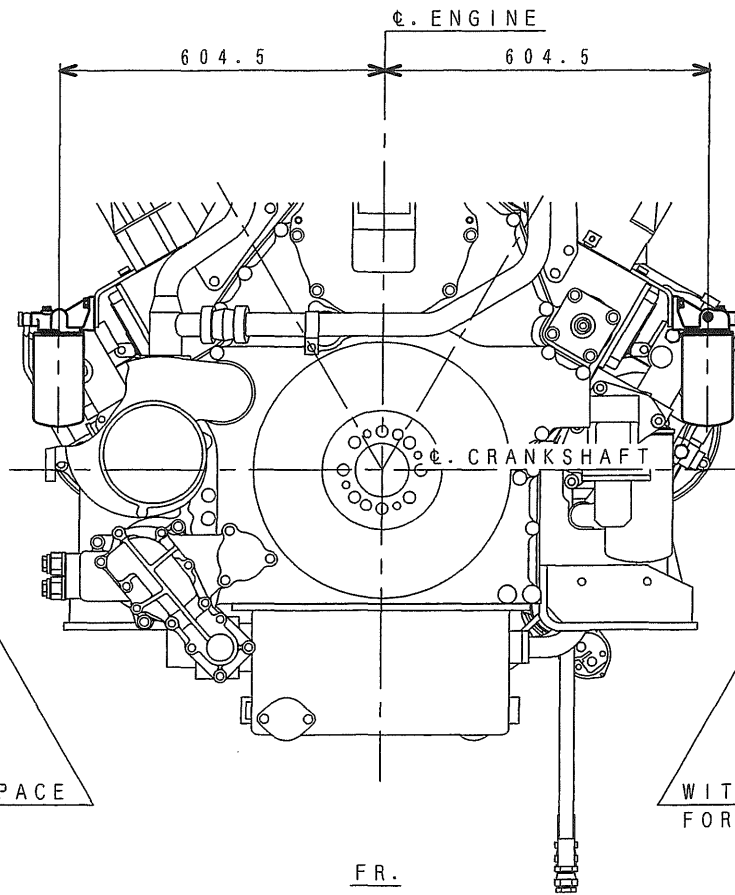
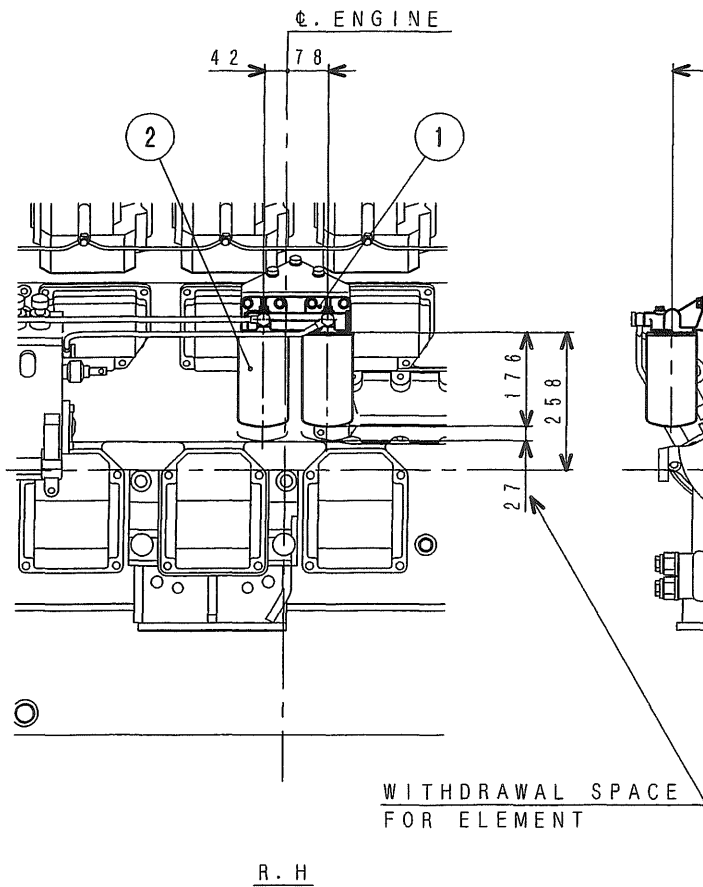
MHI CONFIDENTIAL

CHG	ED-NO	DATE	CHK
認可 APPD	橋	換図 CHK	三谷 上戸
製図 DRN		浅沼	
2008.12.10			

S16R  
**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. 37896-61312

注記 (1) 本図は、図番37896-61305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)

① 組立図 ② 防錆塗品 ③ 板金溶接品 ④ 組立品  
 ⑤ 初刷品 ⑥ その他(購入品)



MHI CONFIDENTIAL

2	32562-60300	ELEMENT, FUEL	(4)
1	32562-60100	F/F ASSY. CTR L. O	2
No.	PARTS NO.	PARTS NAME	Q'TY

4590-H423	'12.11.19	谷戸	
CHG	EQ-NO	DATE	CHK
製図	検図	製図	製図
APPD	CHK	DRN	DRN
樋口	竹	福	谷
	谷	田	島
			1998. 2. 2

3rd ANGLE PROJECTION  
尺度 SCALE

S16R  
FUEL FILTER PIPING

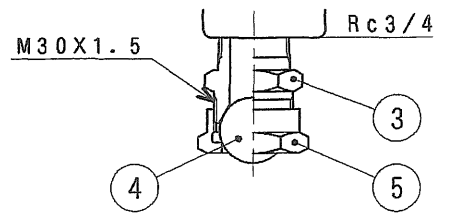
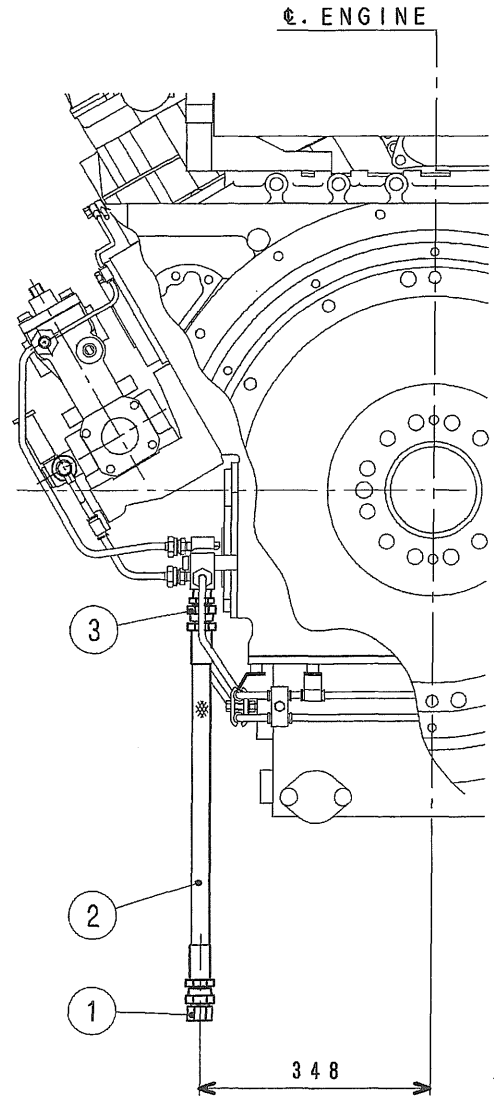
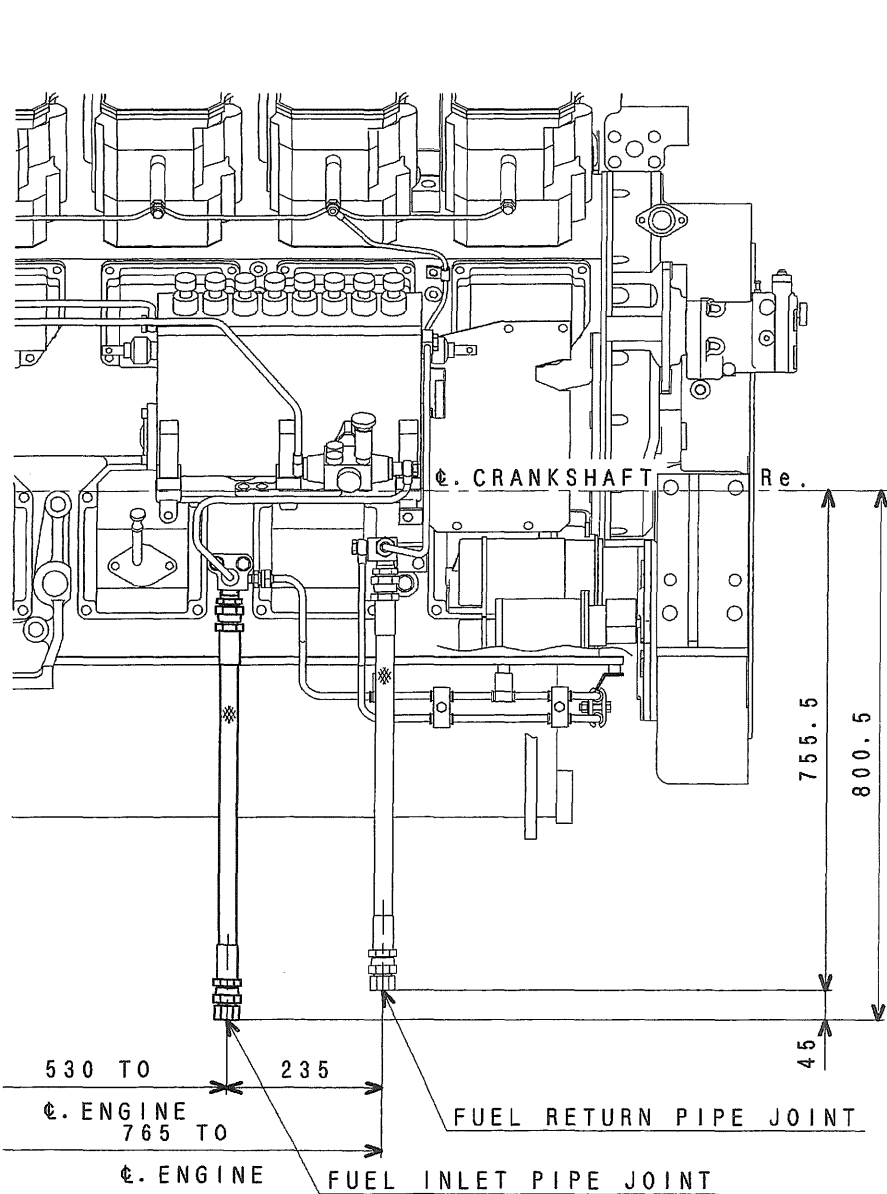
三菱重工業株式会社 汎用機・特車事業本部  
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 37896-62002

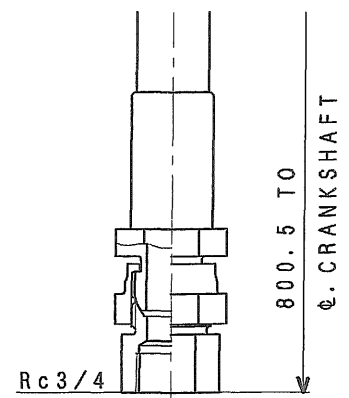
注記 (1) 本図のF.Oエレメントは、軽油用である。

① 新図 ② サイズ ③ 組立図 ④ 2 脚輪組品 ⑤ 3 板金溶接品 ⑥ 4 組立品  
⑦ 旧引図 ⑧ A 3 ⑨ 組立図 ⑩ 5 切創品 ⑪ 6 その他(購入品)

M/C



DETAIL OF INLET PIPE JOINT



DETAIL OF INLET PIPE JOINT

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

5	F4521-20000	NUT, UNION	1
4	F8000-32000	STEEL BALL, BEARING	1
3	F4540-20000	CONNECTOR	1
☆ 2	45950-51700	PIPE, FLEXIBLE	1
☆ 1	45950-11300	CONNECTOR	1
NO.	PARTS NO.	PARTS NAME	Q'TY

MHI CONFIDENTIAL

注記 (1) 本図は、図番37896-62101に対しフレキホース及び先端コネクタを別製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
認可 APPD	橋	検図 CHK	三谷 上戸
製図 DRN		浅沼	
2008.12.10			

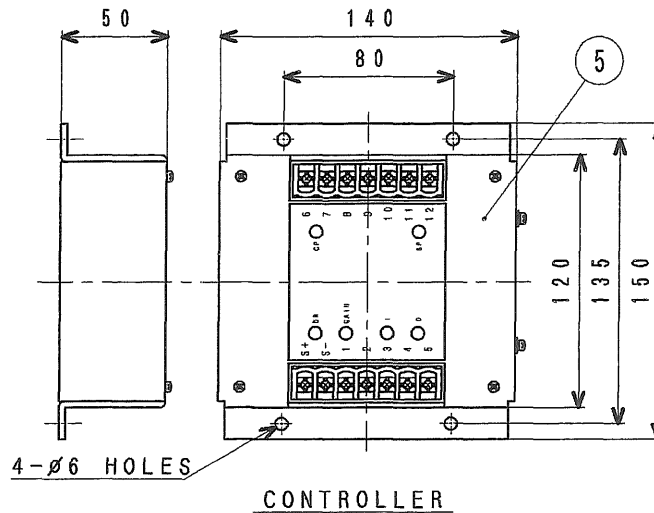
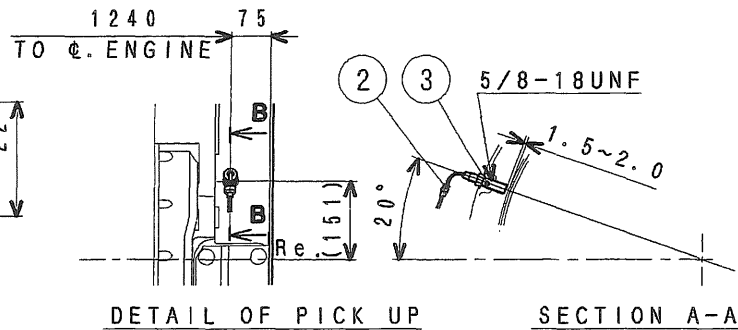
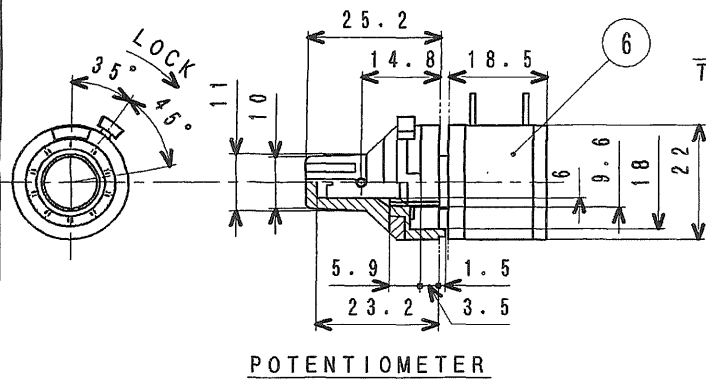
S16R  
 FUEL INLET PIPING  
 三菱重工業株式会社 汎用機・特車事業本部  
 MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.  
 図面番号 37896-62112  
 DRAWING No.

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

出図  
 汎特  
 2008  
 12.12

FULL-CAD



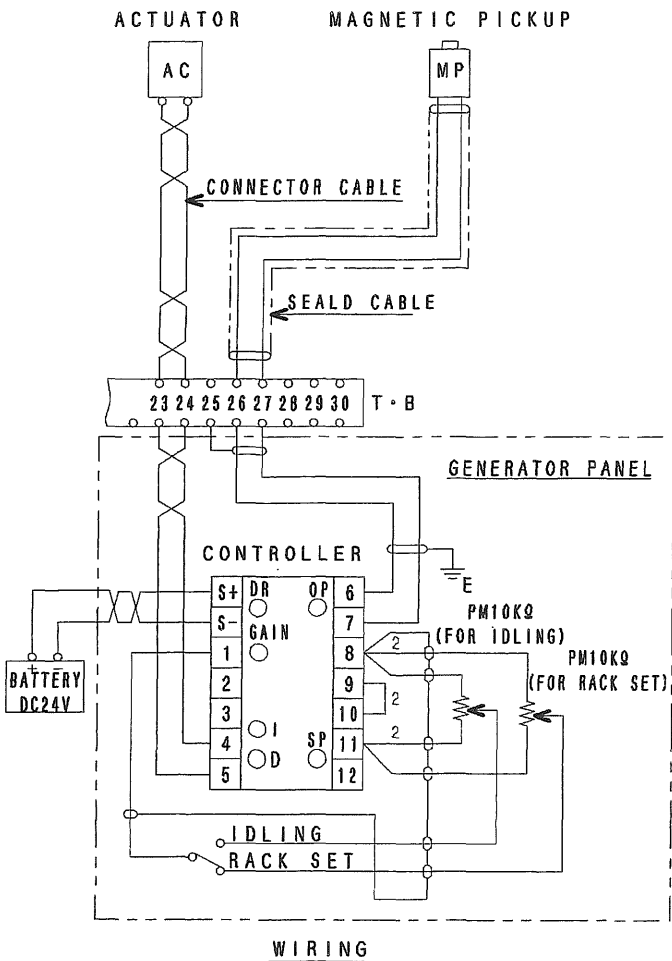


NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

51	F2515-12000	WASHER, SPRING	6
50	F2515-10000	WASHER, SPRING	2
49	F2515-08000	WASHER, SPRING	9
48	F2515-06000	WASHER, SPRING	4
47	08302-06000	WASHER	4
46	F2445-10000	NUT, SELF LOCKING	1
45	F2300-08000	NUT	6
No.	PARTS NO.	PARTS NAME	Q'TY

☆  
☆  
☆  
☆

44	F2300-06000	NUT	4
43	09413-00800	NUT, LOCK	2
42	33063-11400	NUT	3
41	F1035-12065	BOLT	2
40	F1035-12035	BOLT	3
39	F1035-12025	BOLT	1
38	F1035-10040	BOLT	1
37	F1115-08025	BOLT	2
36	F1035-08020	BOLT	1
35	F1035-06050	BOLT	4
34	F2846-06000	PIN, DOWEL	1
33	48000-96600	SEAL	5
32	34461-07700	WIRE, SEAL	5
31	47500-34200	SPACER	4
30	47500-34100	RUBBER	8
29	32561-18300	PLATE, END	1
28	F3202-03200	RING, SNAP	1
27	F3202-03000	RING, SNAP	1
26	F8007-06201	BEARING, BALL	2
25	F8007-06200	BEARING, BALL	2
24	45940-30101	PLATE, CAUTION	1
23	51776-03000	GRIP	1
22	05902-08060	ROD	1
21	05903-00100	ROD	1
20	37761-26800	LINK, L. H.	1
19	35A61-38701	JOINT, BALL (M8-L)	1
18	37563-15401	JOINT, BALL MALE	1
17	35A61-38601	JOINT, BALL (M8-R)	3
16	32561-48600	SPRING	1
15	91365-03200	SPACER	1
14	37761-27100	SHAFT, CONTROL	1
13	47520-31200	LEVER	1
12	47520-34400	LEVER, L. H., B	1
11	37761-37200	LEVER, L. H., A	1
10	37761-27800	LEVER, LINK, L. H	1
9	37761-07600	BRACKET, LEVER, L. H	1
8	47500-39901	COVER	1
7	47520-31101	BRACKET, ACTUATOR	1
☆ 6	04410-33700	POTENTIOMETER	2
☆ 5	04410-33100	CONTROLLER	1
☆ 4	04410-32902	CONNECTOR	1
☆ 3	04410-43410	PICK UP	1
☆ 2	04410-43500	CONNECTOR	1
1	04410-32011	ACTUATOR	1
No.	PARTS NO.	PARTS NAME	Q'TY



MHI CONFIDENTIAL

2	4590-6659	'11. 3.28	齊藤
1	4590-4983	'99. 2.25	福田
CHG	EO-NO	DATE	CHK
認可 APPD	橋	換圖 CHK	竹谷 福田
製圖 DRW	谷 鷗 戸 島	1998. 3. 9	

S16R

GOVERNOR

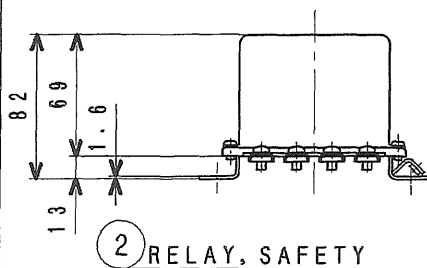
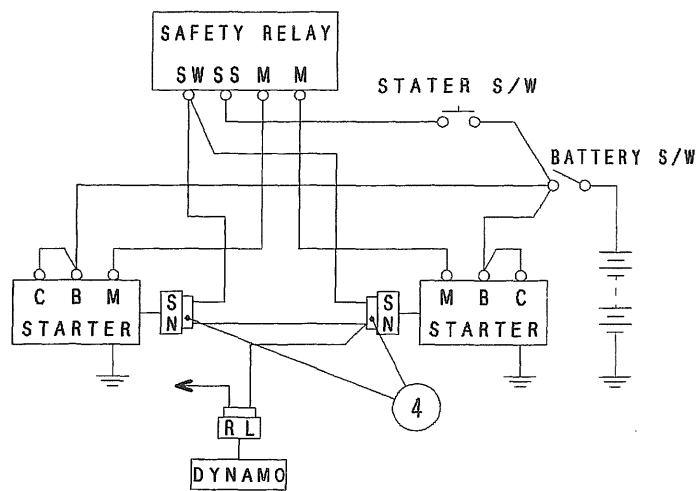
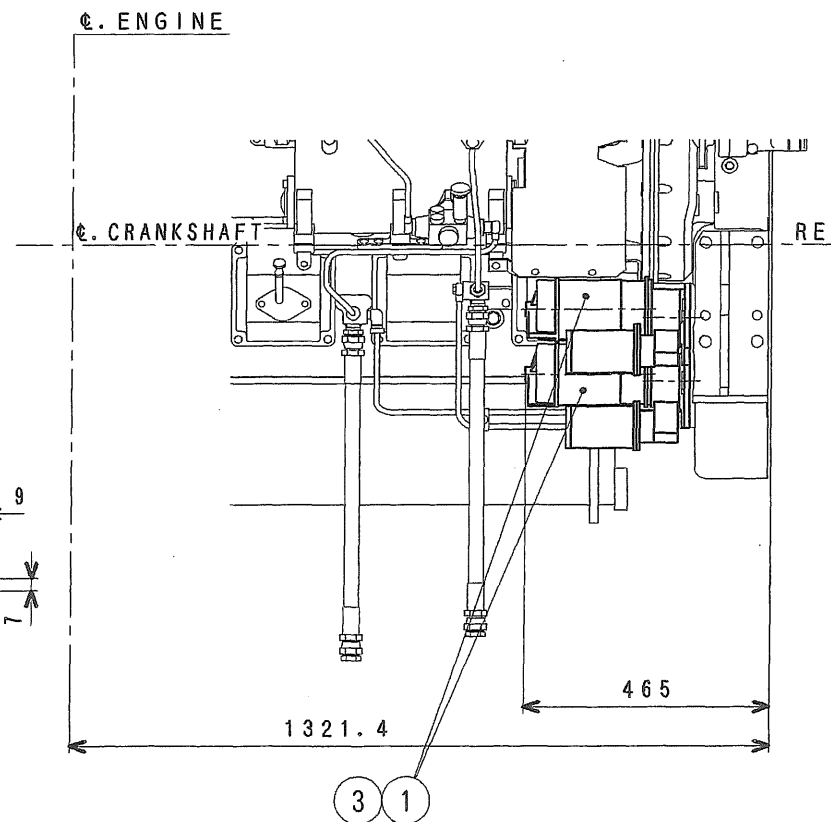
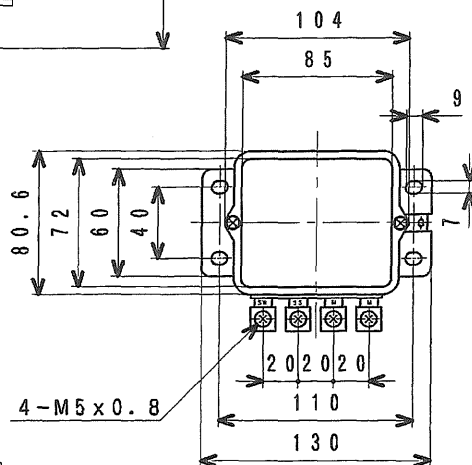
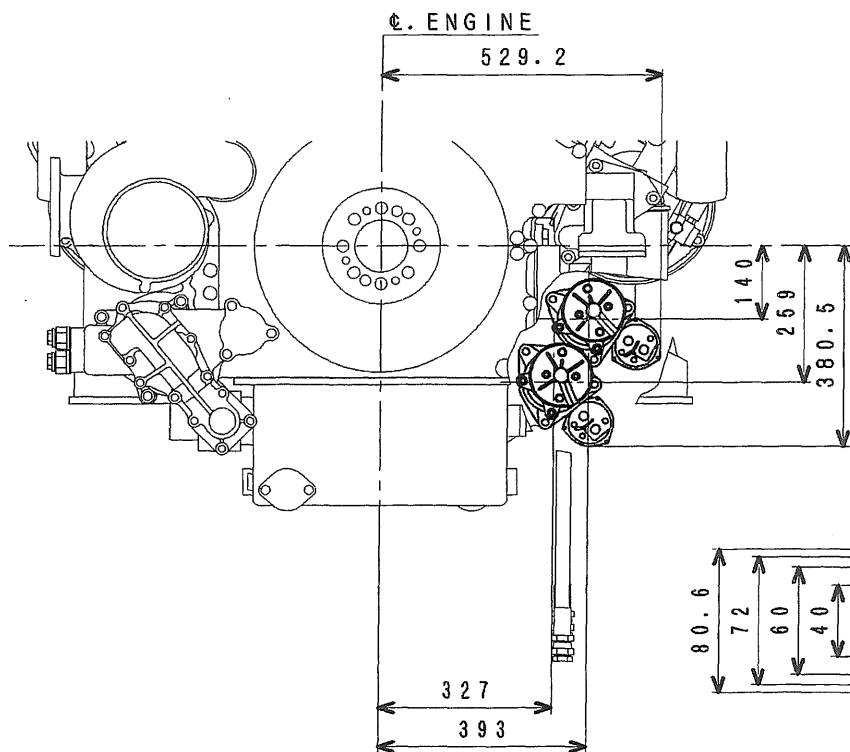
三菱重工業株式会社 汎用機・特車事業本部  
HITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 37896-63005 2/2  
DRAWING No.

3 新図 4 再入品 5 組立図 6 組立品 7 部品図 8 部品品 9 金型図 10 金型品 11 その他 (購入品)

旧引  
汎特  
2011  
12.12

FULL-CAD



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

☆ 4	F8665-02100	CONNECTOR	2
☆ 3	F1805-12035	BOLT	6
☆ 2	04322-40100	SAFETY MAGNETIC	1
☆ 1	37766-20201	STARTER 7.5kW	2
No.	PARTS NO.	PARTS NAME	Q'TY

MHI CONFIDENTIAL

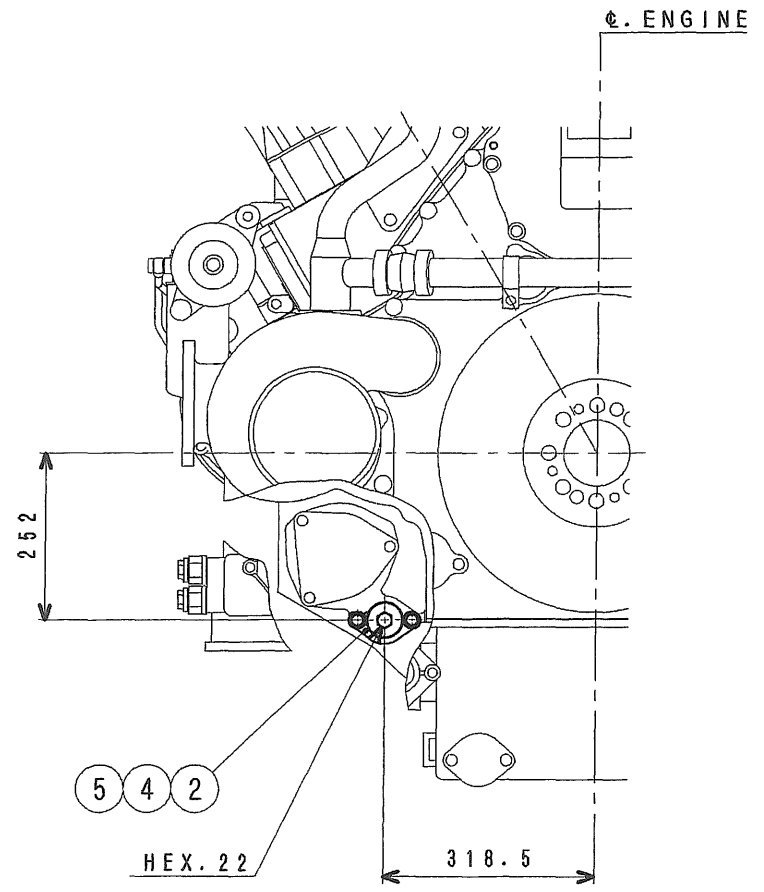
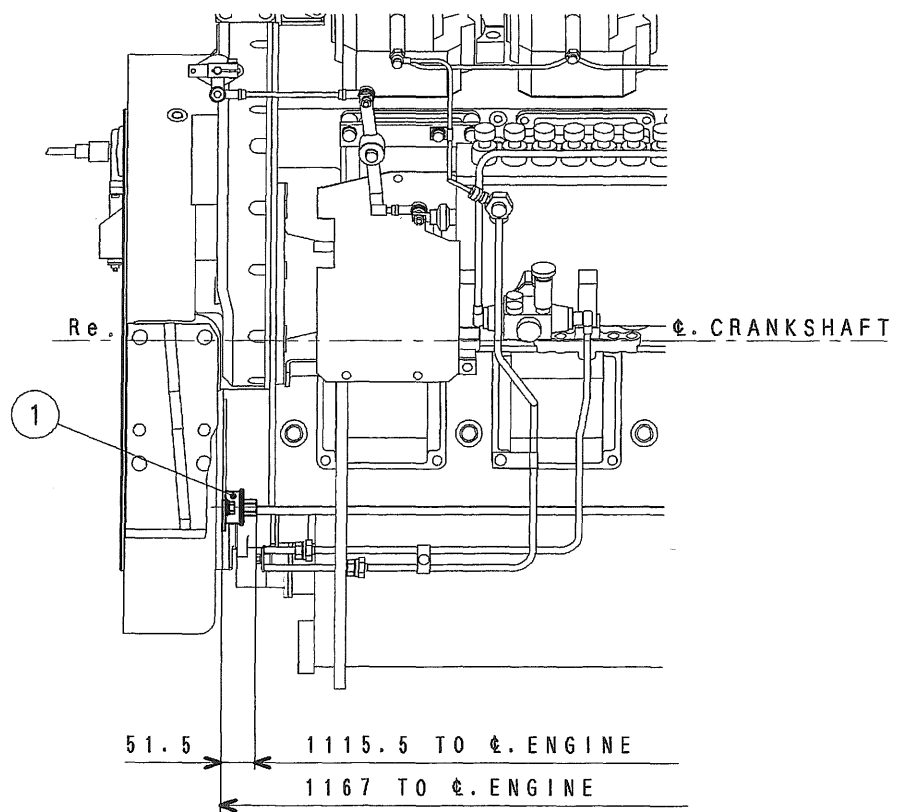
2	4590-G660	'11. 3.29	齊藤
1	4590-6941	'00. 8.28	福田
CHG	ED-NO	DATE	CHK
認可 APPD	橋	按圖 CHK	竹谷 福田
		製圖 DRN	谷 戸
		1997. 8. 8	

**S16R**  
**STARTING MOTOR**  
 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 37896-66001  
 DRAWING No. 2

旧引  
 汎特  
 2011  
 12.12

FULL-CAD

3 折 回  
 ① 旧引図  
 ② 組立図  
 ③ 鋳造部品  
 ④ 切削品  
 ⑤ 板金溶接品  
 ⑥ その他(購入品)



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

5	F2500-12000	WASHER, PLAIN	2
4	F1805-12020	BOLT	2
3	37571-01500	PLATE, CAUTION	1
2	37571-10300	FLANGE	1
1	37771-00102	GEAR, TURNING	1
No.	PARTS NO.	PARTS NAME	Q' TY

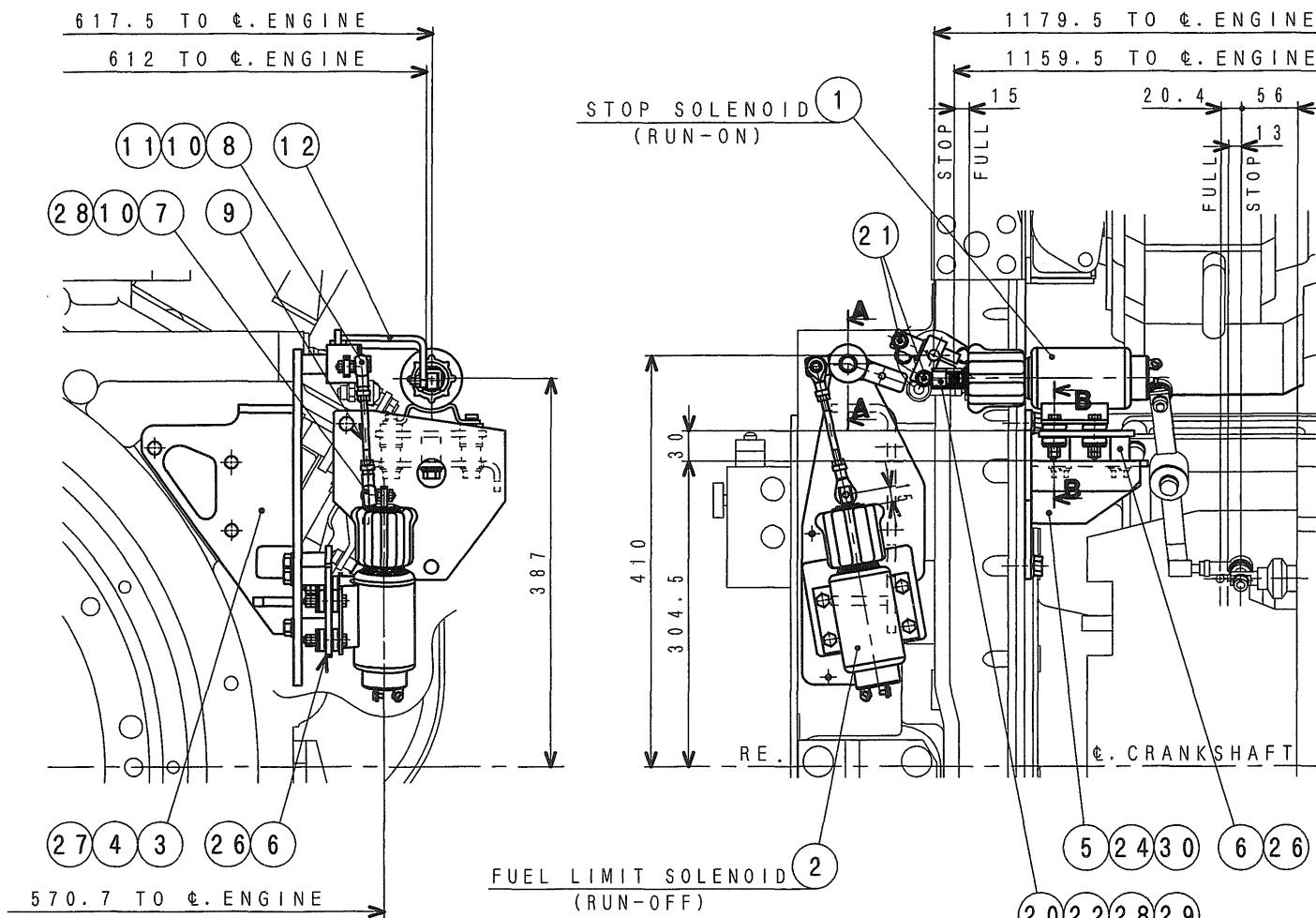
MHI CONFIDENTIAL

 3rd ANGLE PROJECTION 尺度 SCALE		<b>S16R</b> <b>TURNING DEVICE</b> 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.	
CHG 認可 APPD 橋 口	ED-NO 4590-G661	DATE '11. 3. 29	CHK 齊藤
検図 CHK 竹 谷	製図 DRN 福 田	谷 戸 1997. 8. 8	図面番号 DRAWING No. <b>37896-71001</b>

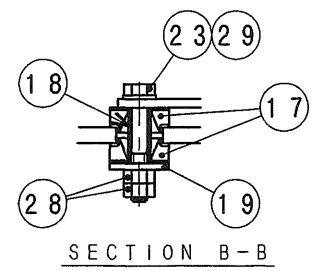
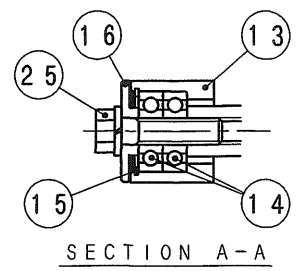
3 新図 サイズ A 3  
 ① 旧引図 ② 組立図 ③ 鉚釘部 ④ 組立品  
 ⑤ 切削品 ⑥ その他(購入品)

旧引  
 汎特  
 2011  
 12.12

FULL-CAD



30	F2515-12000	WASHER, SPRING	2
29	F2515-06000	WASHER, SPRING	9
28	F2300-06000	NUT	18
27	F1825-12025	BOLT	3
26	F1825-10025	BOLT	6
25	F1805-10040	BOLT	1
24	F1035-12030	BOLT	2
23	F1035-06040	BOLT	8
22	F1035-06020	BOLT	1
21	37587-00900	FOLLOWER	2
20	37787-03200	ADAPTER	1
19	08302-06000	WASHER	8
18	47500-36700	SPACER	8
17	47500-34100	RUBBER, CUSHION	16
16	32561-18300	PLATE, END	1
15	F3202-03000	RING, SNAP	1
14	F8007-06200	BEARING, BALL	2
13	37787-21202	LEVER, STOP RUN-OFF	1
12	37761-08401	LEVER, R.H., RACK CONT.	1
11	09413-00600	NUT, LOCK	1
10	05634-00610	NUT, SELF LOCKING	2
9	05902-06100	ROD	1
8	35A61-58401	BALL JOINT (M6-L)	1
7	35A61-58301	BALL JOINT (M6-R)	1
6	47520-25800	PLATE, SOLENOID	2
5	37787-03300	BRACKET, SOLENOID	1
4	37711-13200	PACKING	1
3	37787-01501	BRACKET, SOLENOID	1
2	04400-08901	SOLENOID (RUN-OFF)	1
1	04400-08801	SOLENOID (RUN-ON)	1
No.	PARTS NO.	PARTS NAME	Q'TY



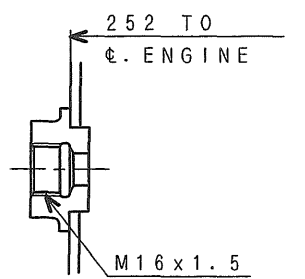
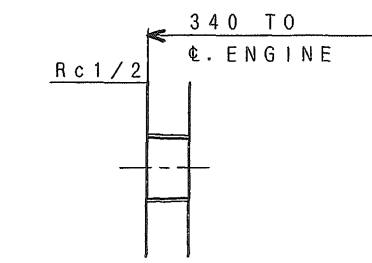
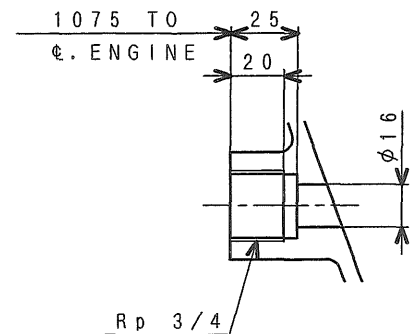
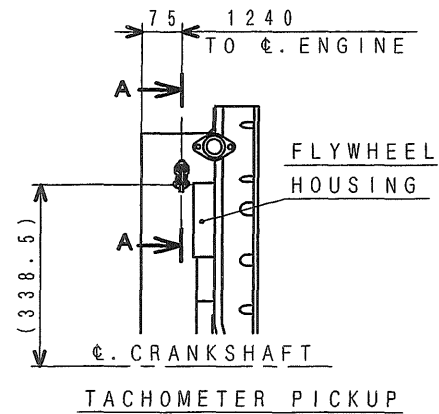
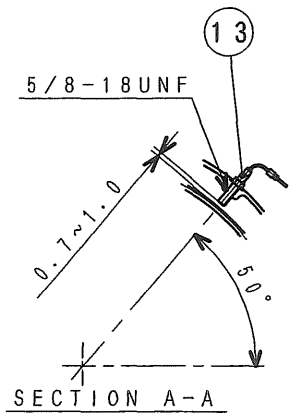
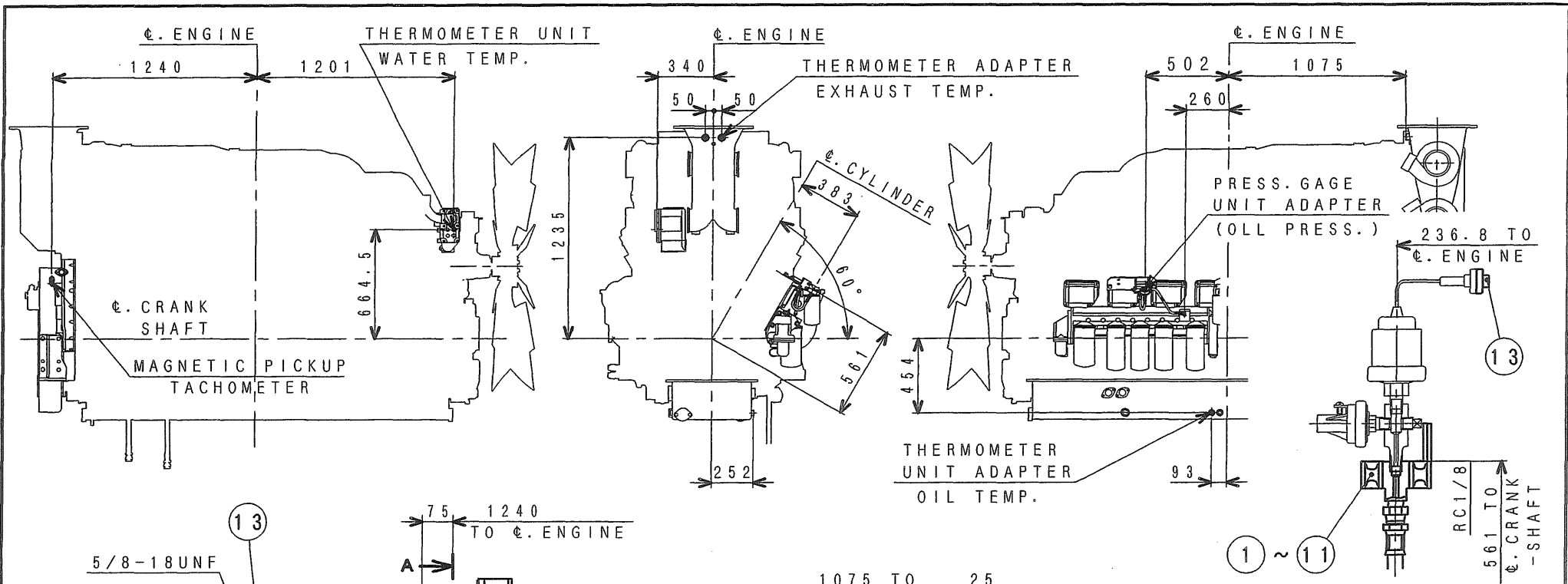
MHI CONFIDENTIAL

△					
△					
2	4590-H436	'12.11.30	谷戸		
1	4590-F689	'09. 8.25	斉藤		
CHG	EO-NO	DATE	CHK		
認可 APPD				換図 CHK	製図 DRN
				橋口	谷戸
				竹谷	福田
					1999. 3.16

S16R-PTA  
 STOP & FUEL LIMIT SOLENOID  
 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 37896-87503  
 DRAWING No. 37896-87503

(2) 始動時、ラック制限値は両ソレノイド電源ON状態で、13mmである。  
 (1) 本図は、ストップソレノイド (RUN-ON) 及び、始動性容易化用ラックリミッターソレノイド (RUN-OFF) 装着図である。

M/C



1 ~ 11 PRESS. GAGE UNIT ADAPTER (OIL PRESS.)

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

No.	PARTS NO.	PARTS NAME	Q'TY
☆ 13	MH052-231	CONNECTOR	1
12	04410-43410	PICKUP, MAGNETIC	1
11	F2515-12000	WASHER, SPRING	2
10	F2515-10000	WASHER, SPRING	2
9	F1035-12070	BOLT	2
8	F1035-10025	BOLT	2
7	F4560-06300	ELBOW	1
6	F4540-06300	CONNECTOR	2
5	F2300-10000	NUT	2
4	45951-04028	PIPE, FLEXIBLE	1
3	45951-04024	PIPE, FLEXIBLE	1
2	45644-47900	MOUNT	1
1	47520-40701	BRACKET	1

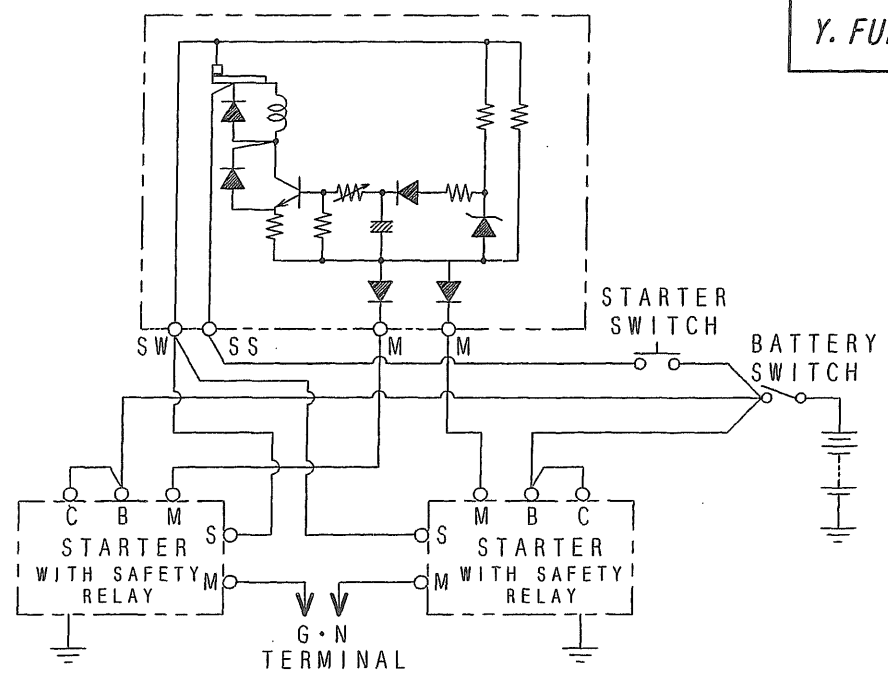
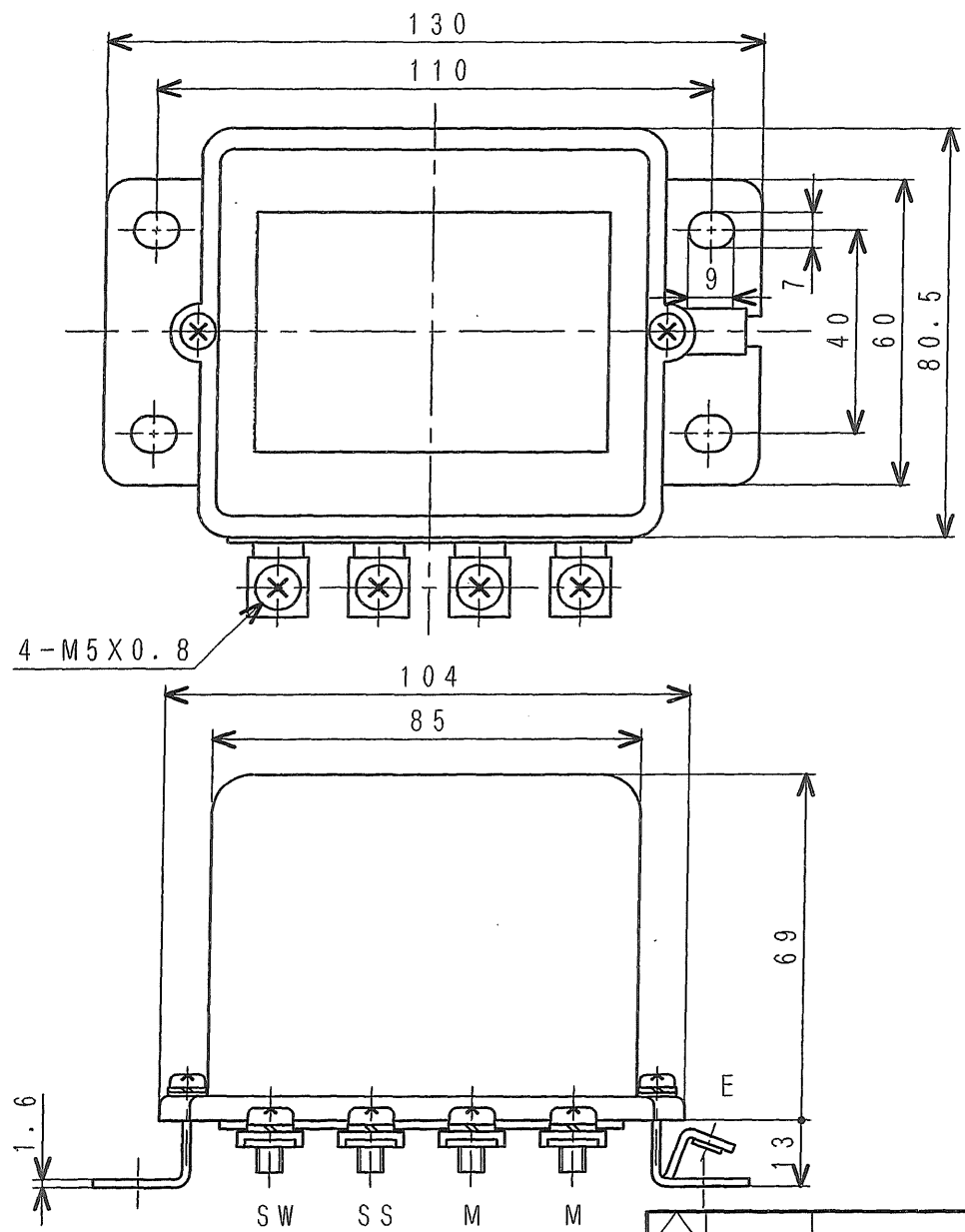
MHI CONFIDENTIAL

CHG	EQ-NO	DATE	CHK
認可 APPO	検回 CHK	製回 DRN	谷 戸
2012.11.29		M/C	

S16R  
**METER & SENSOR**  
 三菱重工業株式会社 汎用機・特車事業本部  
 NISSHIBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.  
 図面番号 37896-90119



CHECKED BY  
Y. FUKUDA



WIRING

仕 様		
公称電圧	24V	
定 格	30秒	
リレ-動作仕様 (25℃時)	動作電圧	8V~24V
	作動同期	SS-SW間ON-OFF1サイクル (24V) 2.5~3.0 sec
接点要量	6A	
耐振性能	JIS D 1601 3類B種ニヨル(6.8G)	
使用温度	-20 ~ +50℃	
保護方式	防滴形	

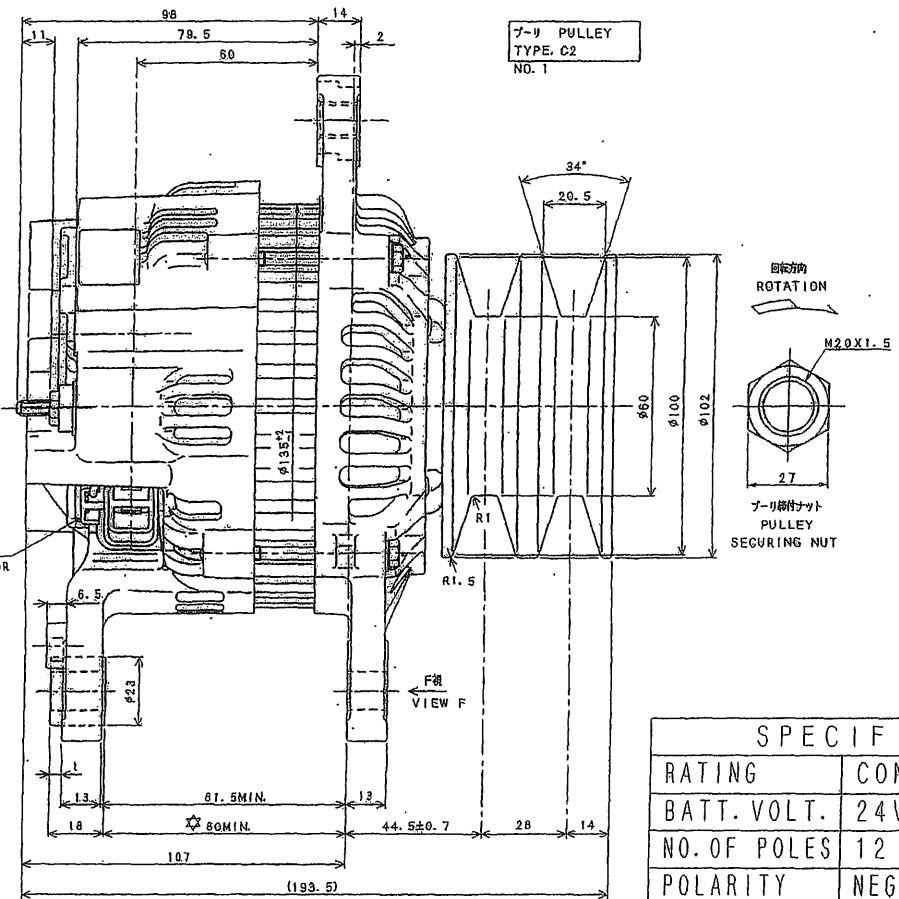
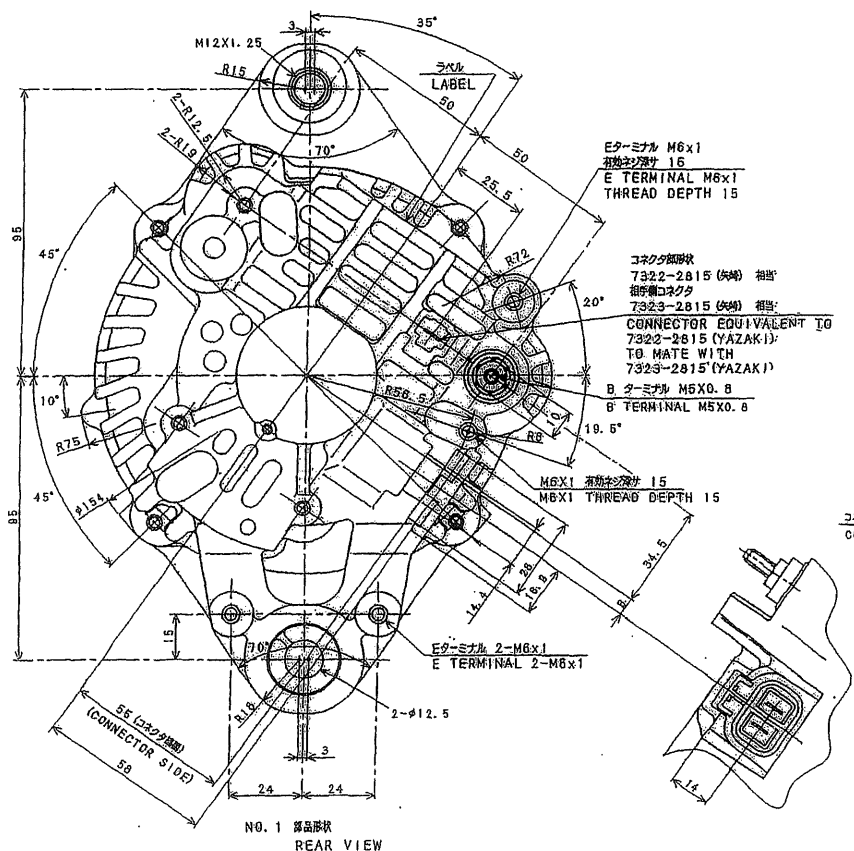
MHI CONFIDENTIAL

2	'08.11.27
1	'93. 2.16
REV.	DATE

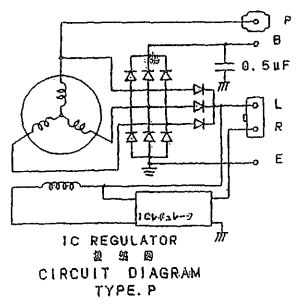
SAFETY RELAY  
PART NO. 04322-40100

DWG. NO. S10-0150  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY  
K. YATO



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 WITHLESS THAN 5A BATT LOAD MEASURED ON L-E)



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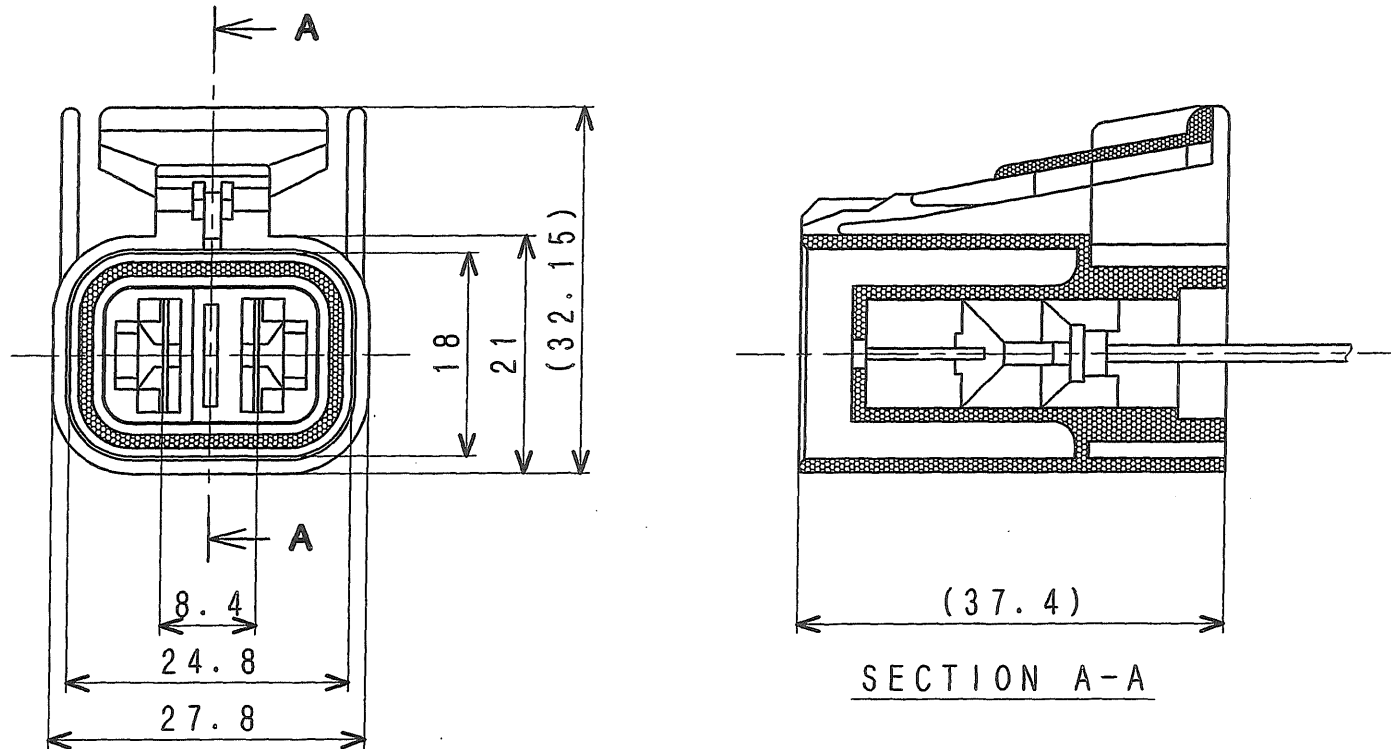
REV.	DATE

ALTERNATOR, W/O EXCIT  
PART NO. 04343-38000

DWG. NO. S10-0540  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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本部品は、矢崎品番7323-6228-30相当品である。

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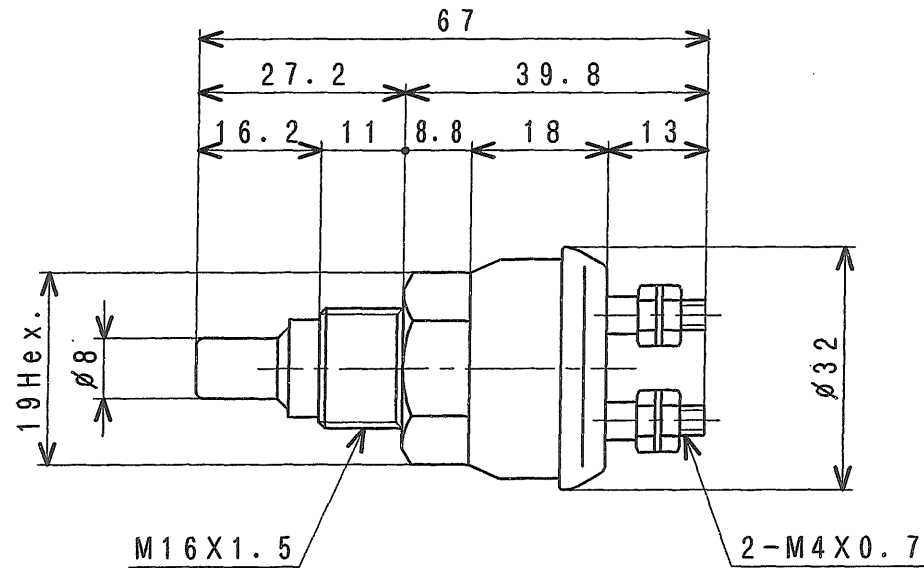
REV.	DATE

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		

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

THERMO SWITCH

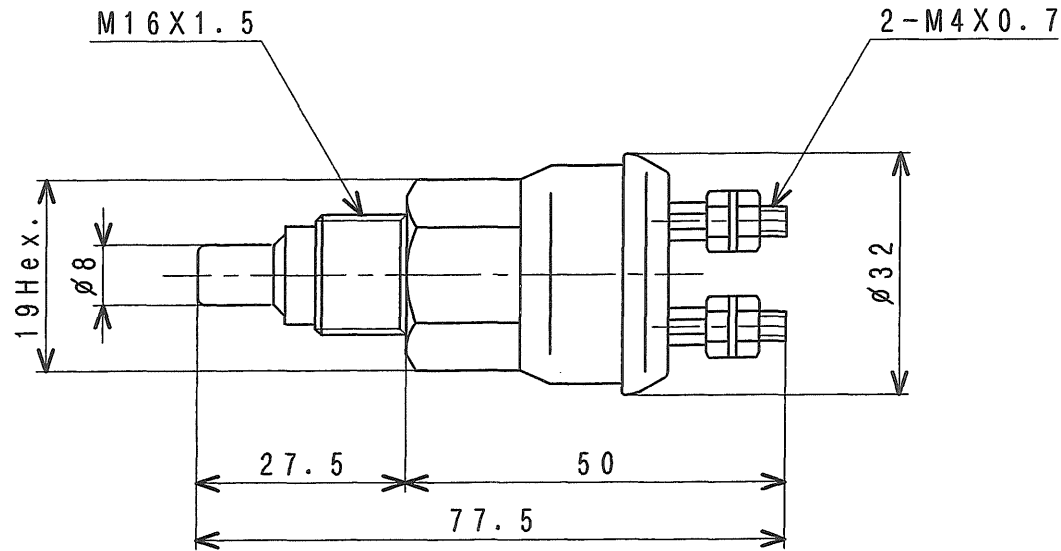
DWG. NO. S11-0551

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

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中村



SPECIFICATION				
CONNECTING TYPE	SET TEMP. (°C)		CONTACTOR CAPACITY	WEIGHT
	ON	OFF		
NC(B-CONTACT)	35±2	42±2	DC24V 3A, AC100V 1A DC100V 0.05A	60g

注記 本部品は、04442-30200 THERMO SWITCHに対して  
サーモエレメント内のスリーブ材質変更 NBR→フッ素

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△	
△	
△	
REV.	DATE

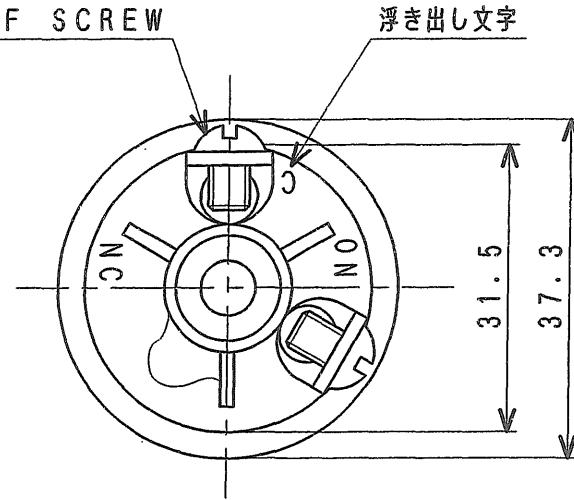
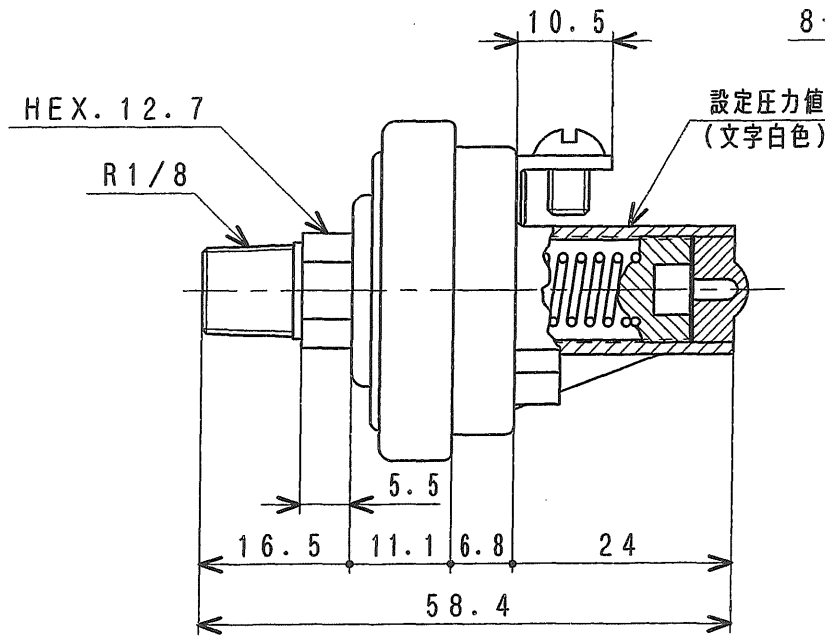
THERMOSWITCH  
PART NO. 04442-30210

DWG. NO. S11-0781

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

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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	

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)

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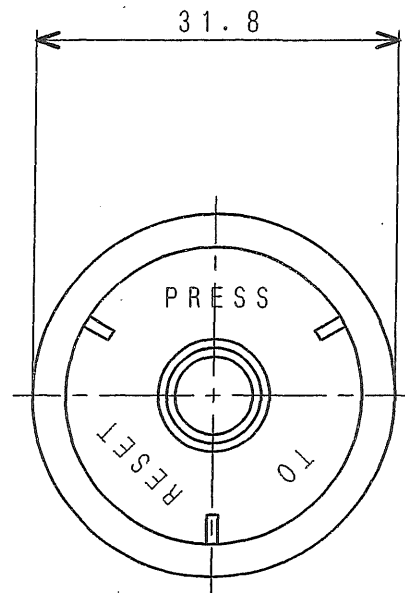
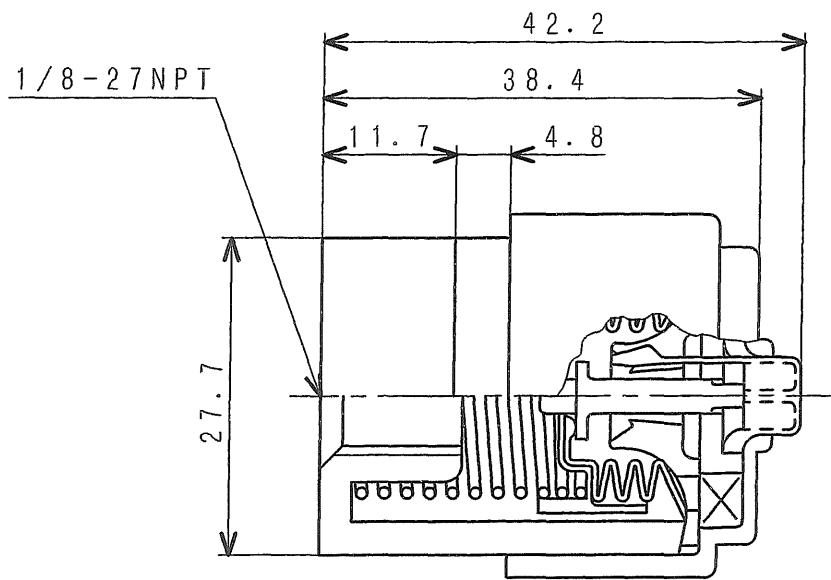
2	'08.6.5
1	'06.3.17
REV.	DATE

SWITCH, PRESS

DWG. NO. S11-0796

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

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

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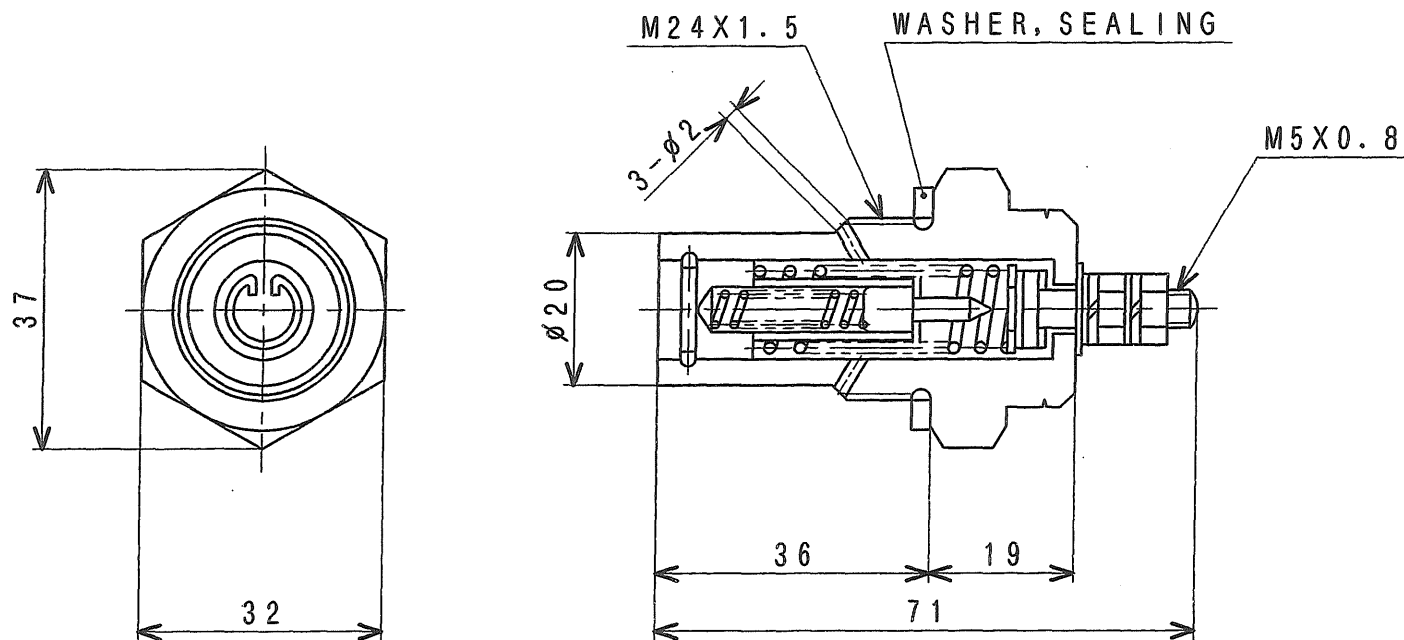
△	
△	
↑	'93 2/18
REV.	DATE

INDICATOR

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

CHECKED BY

中村



SET PRESS. 0.15MPa

MHI CONFIDENTIAL

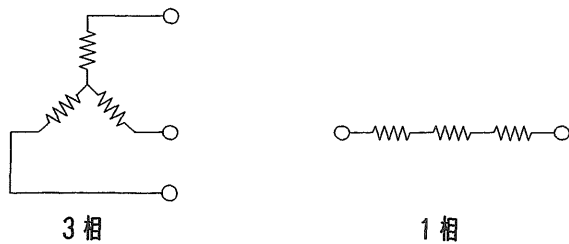
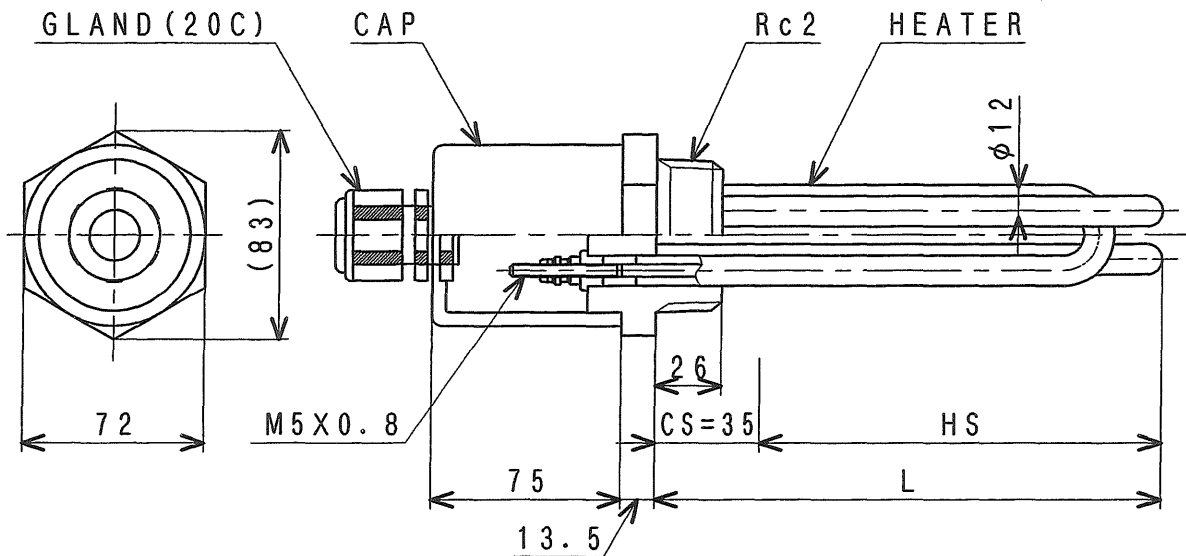
△	
△	
1	'08.6.6
REV.	DATE

ALARM, OIL FILTER  
PART NO. 37540-01300

DWG. NO. S11-1370  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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CONNECTION

3. 使用温度 : 90℃連続  
 2. 加熱対象物 : 清水  
 仕様 1. 取付姿勢 : キャップを上側とした取付は不可

04393-34820	3φ 480V	2 kW	200	165
04393-34420	3φ 440V			
04393-33820	3φ 380V			
04393-32220	3φ 220V	1 kW	125	90
04393-34810	3φ 480V			
04393-34410	3φ 440V			
04393-33810	3φ 380V	2 kW	200	165
04393-32210	3φ 220V			
04393-14820	1φ 480V			
04393-14420	1φ 440V	1 kW	125	90
04393-13820	1φ 380V			
04393-12420	1φ 240V			
04393-12220	1φ 220V	1 kW	125	90
04393-11220	1φ 120V			
04393-11120	1φ 110V			
04393-14810	1φ 480V	1 kW	125	90
04393-14410	1φ 440V			
04393-13810	1φ 380V			
04393-12410	1φ 240V	1 kW	125	90
04393-12210	1φ 220V			
04393-11210	1φ 120V			
04393-11110	1φ 110V	1 kW	125	90
PARTS NO.	VOLTAGE	CAPACITY	L	HS
			LENGTH	

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REV.	DATE
2	'09.12.8
1	'01.2.21

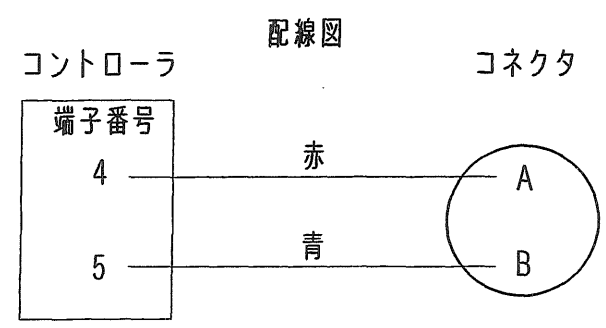
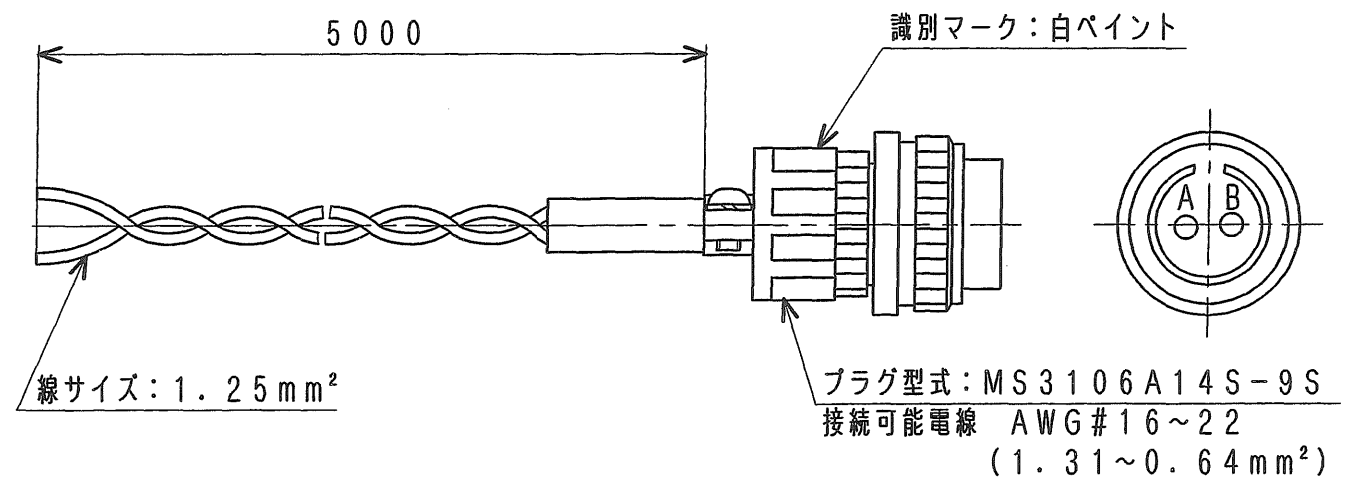
WATER HEATER

DWG. NO. S12-0014

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



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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。

△	
△	
△	
REV.	DATE

CONNECTOR  
PART NO. 04410-32902

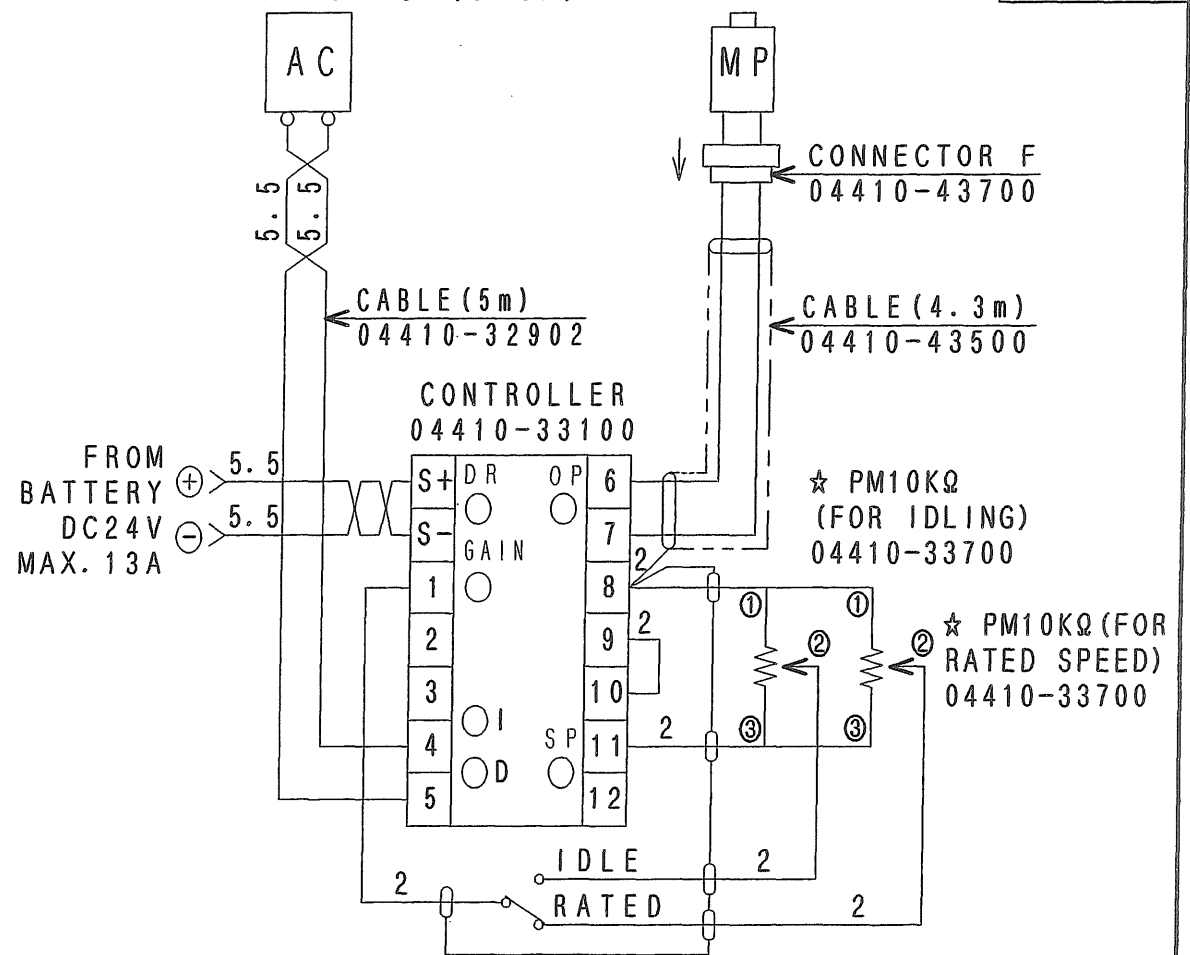
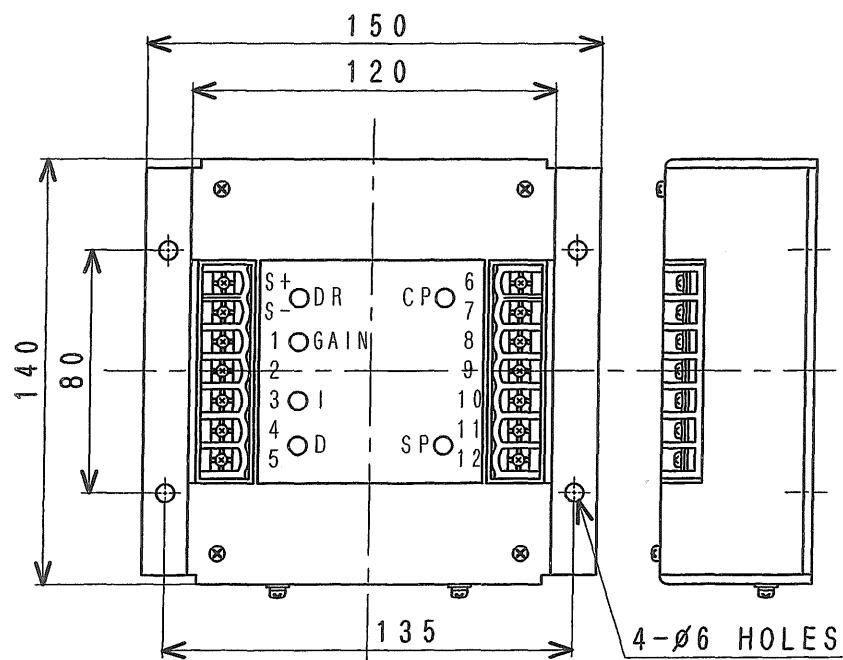
DWG. NO. S13-1022  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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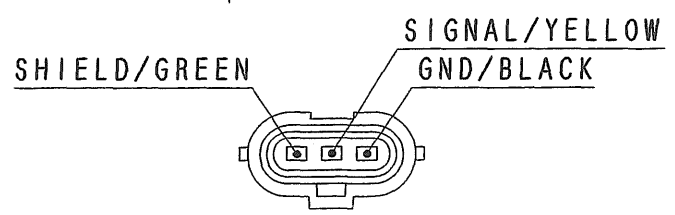
ACTUATOR  
04410-32011  
04410-37081 (S12H)

MAGNETIC PICKUP  
04410-43410



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

WIRING



CONNECTOR F  
04410-43700

2	'11.4.20
1	'01.6.29
REV.	DATE

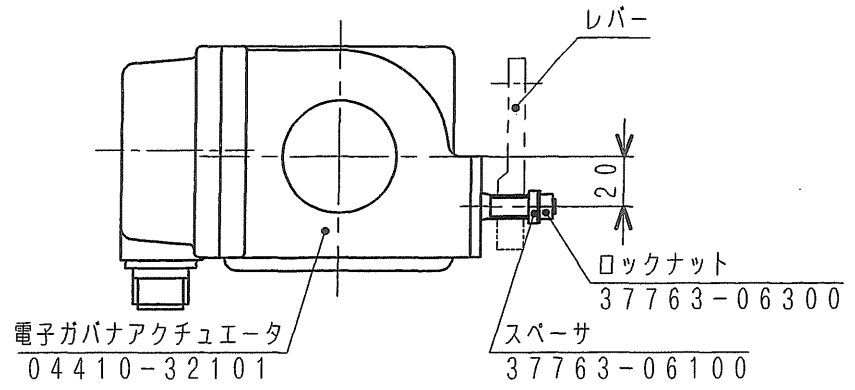
CONTROLLER SPEED  
PART NO. 04410-33100

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

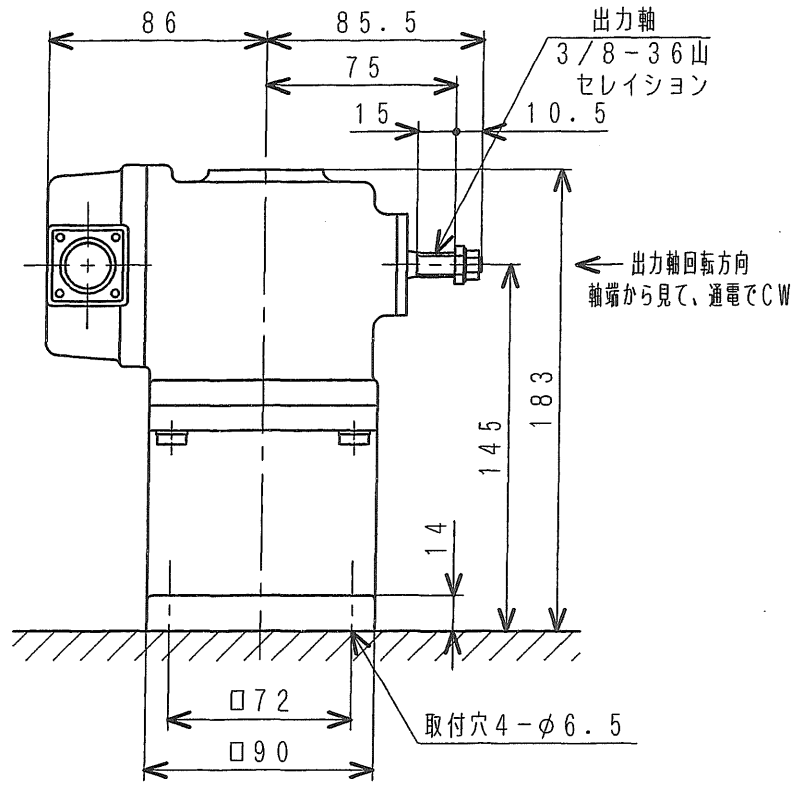
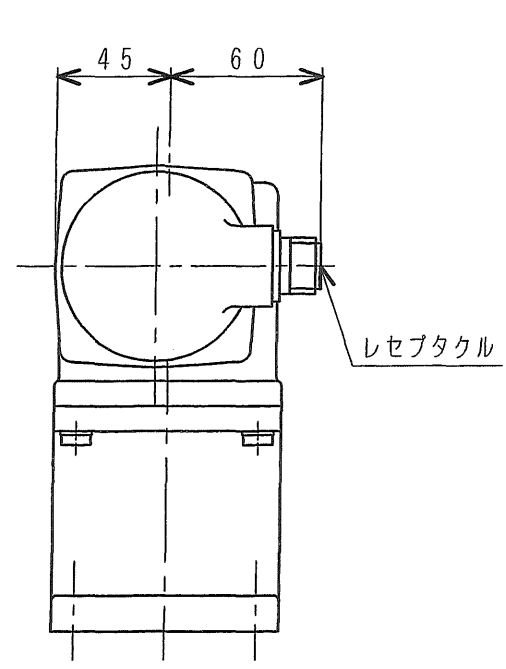
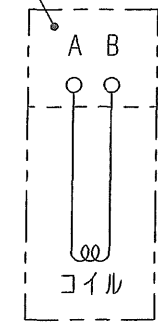
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コネクタ用レセプタクル  
(キャノンプラグ)



仕様

- 回転角度 : MAX40°
- トルク : 0.17 kgf・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 : 4.7 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。

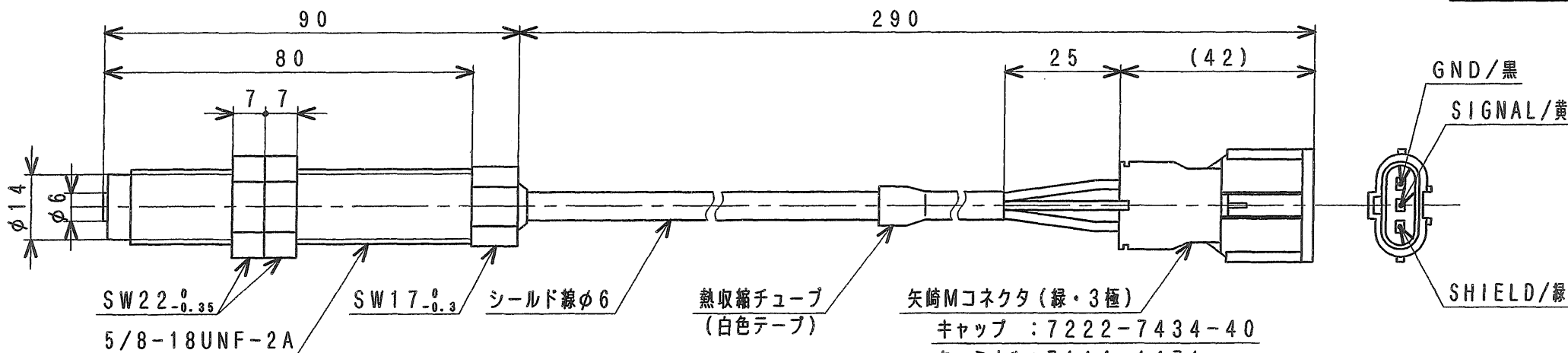
注記(1) 本部品は、2線式アクチュエータである。

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。

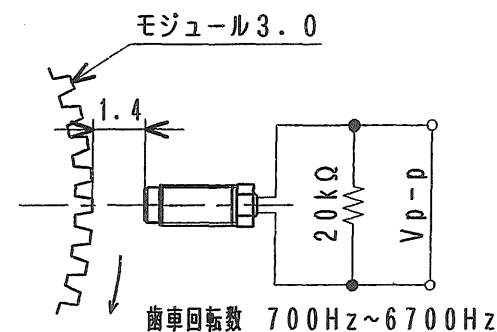


図1. 出力条件

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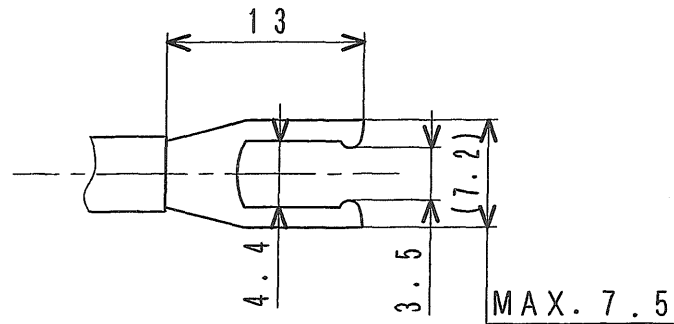
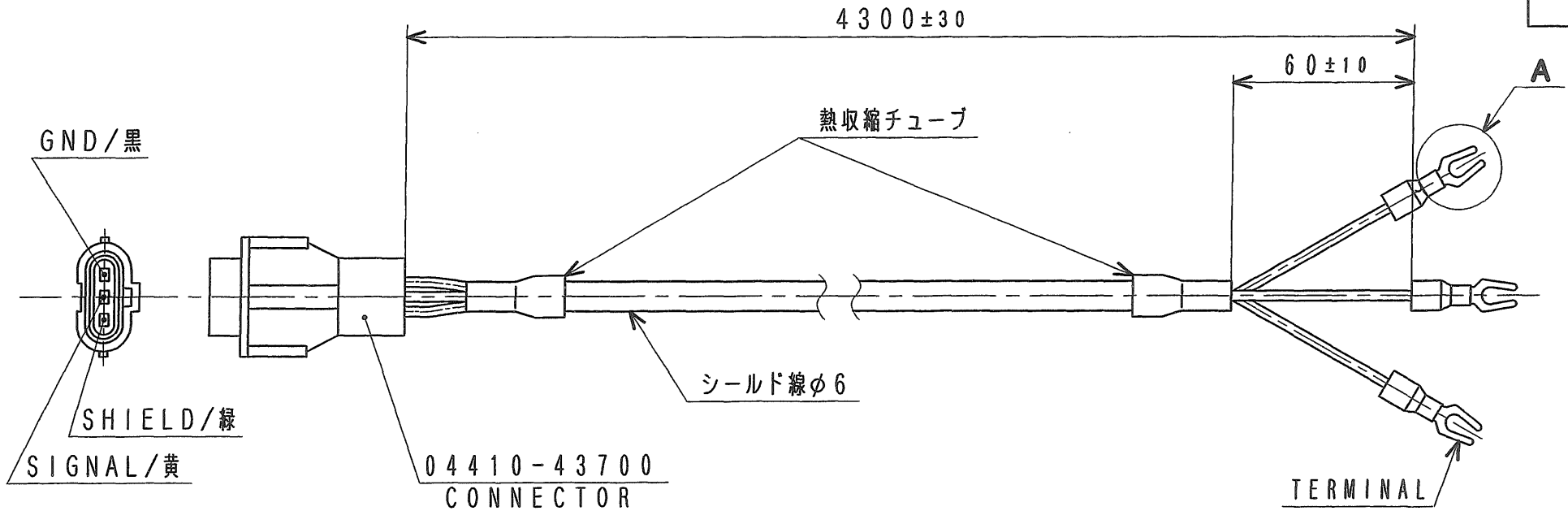
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REV.	DATE

PICKUP, MAGNETIC  
PART NO. 04410-43410

DWG. NO. S13-2011

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

CHECKED BY



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×1, 黄×1 (各々メスピンの接続), 緑×1 (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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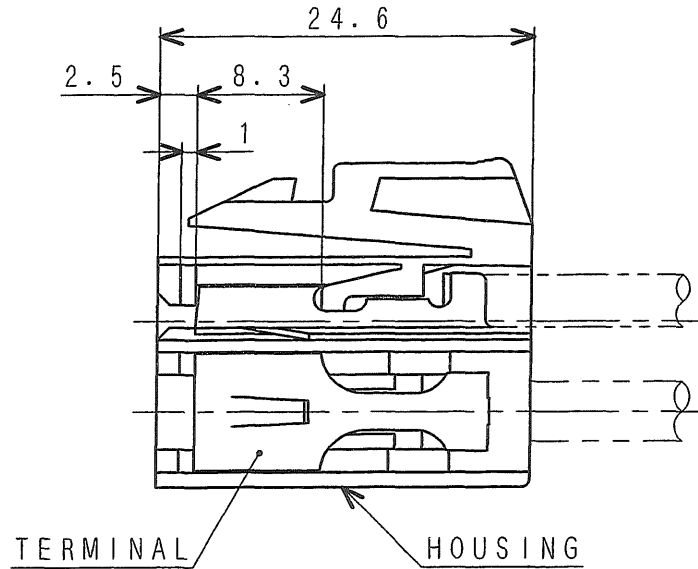
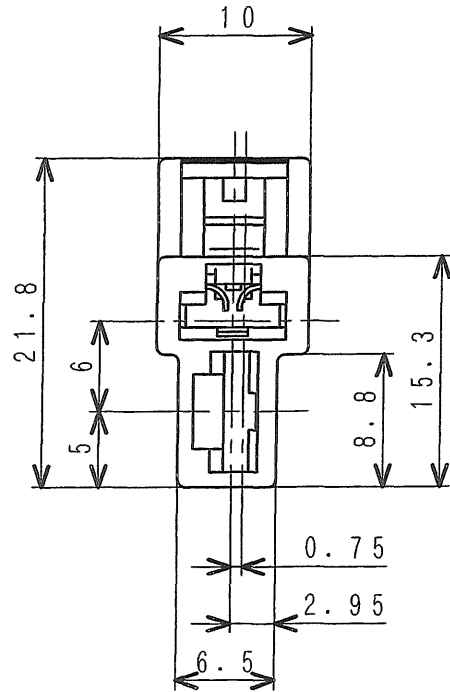
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REV.	DATE

CABLE, PICKUP  
PART NO. 04410-43500

DWG. NO. S13-2020  
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Y. FUKUDA



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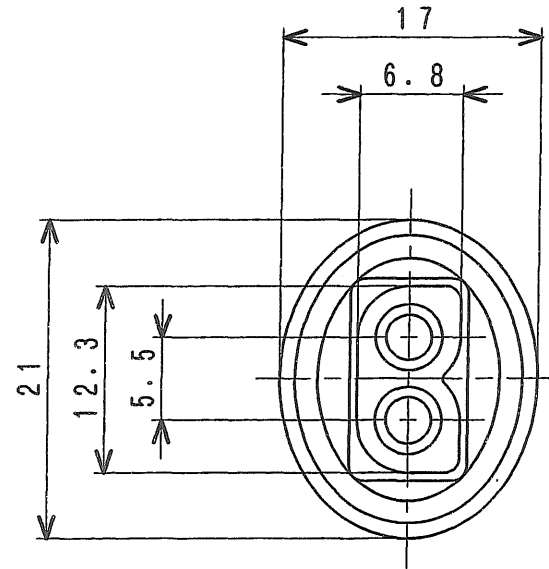
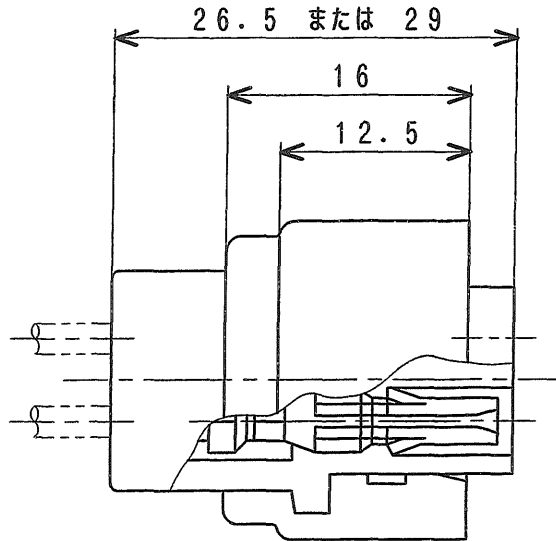
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↑	'93 9/10
REV.	DATE

CONNECTOR, 2 POLES  
PART NO. F8665-02100

DWG. NO. S14-0320  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
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Y. FUKUDA



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REV.	DATE
2	'04.3.12
1	'93.8.4

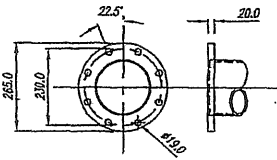
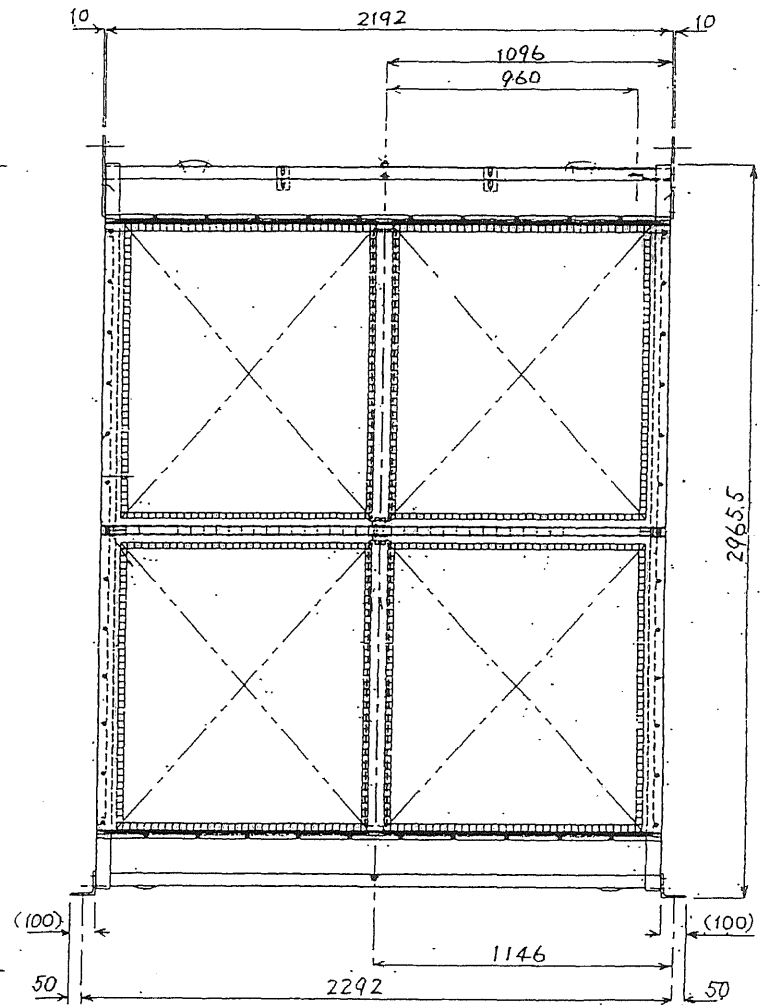
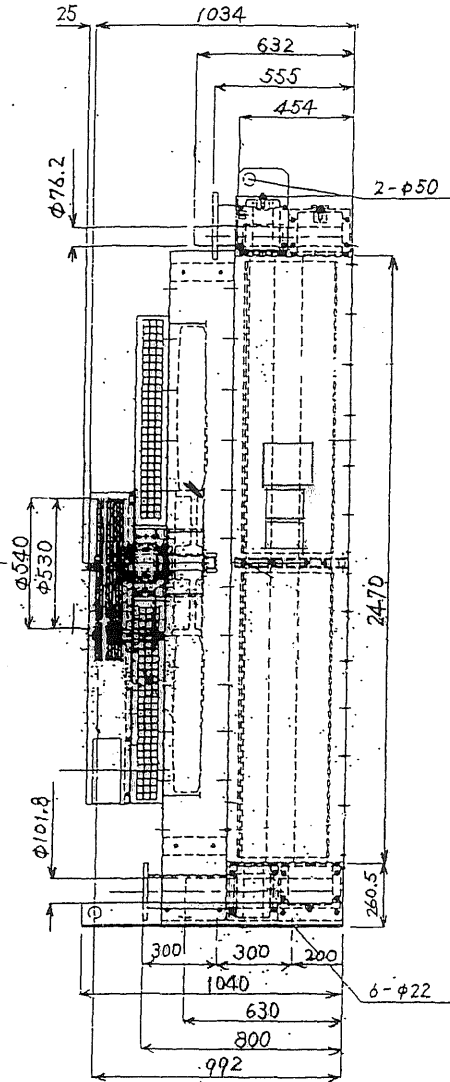
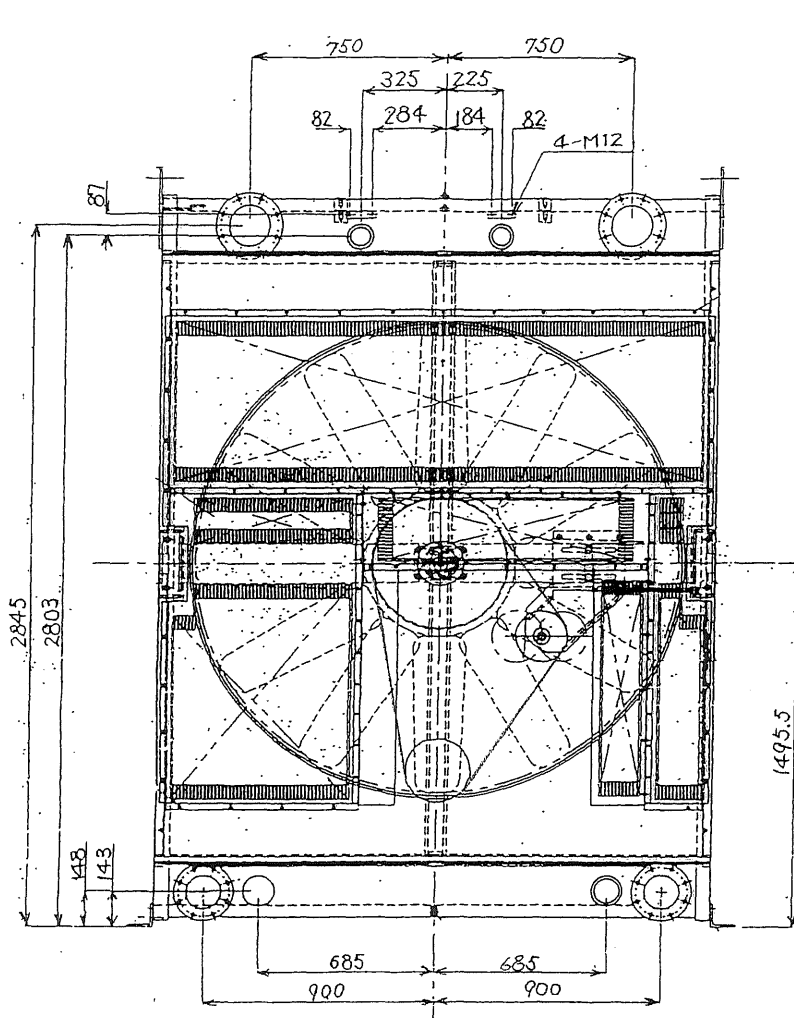
CONNECTOR  
PART NO. MH052231

DWG. NO. S14-0330

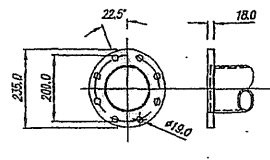
 MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY

K. YATO



CHARGE AIR INLET FLANGE  
150.0 NB (JIS)



CHARGE AIR OUTLET FLANGE  
125.0 NB (JIS)

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REV.	DATE

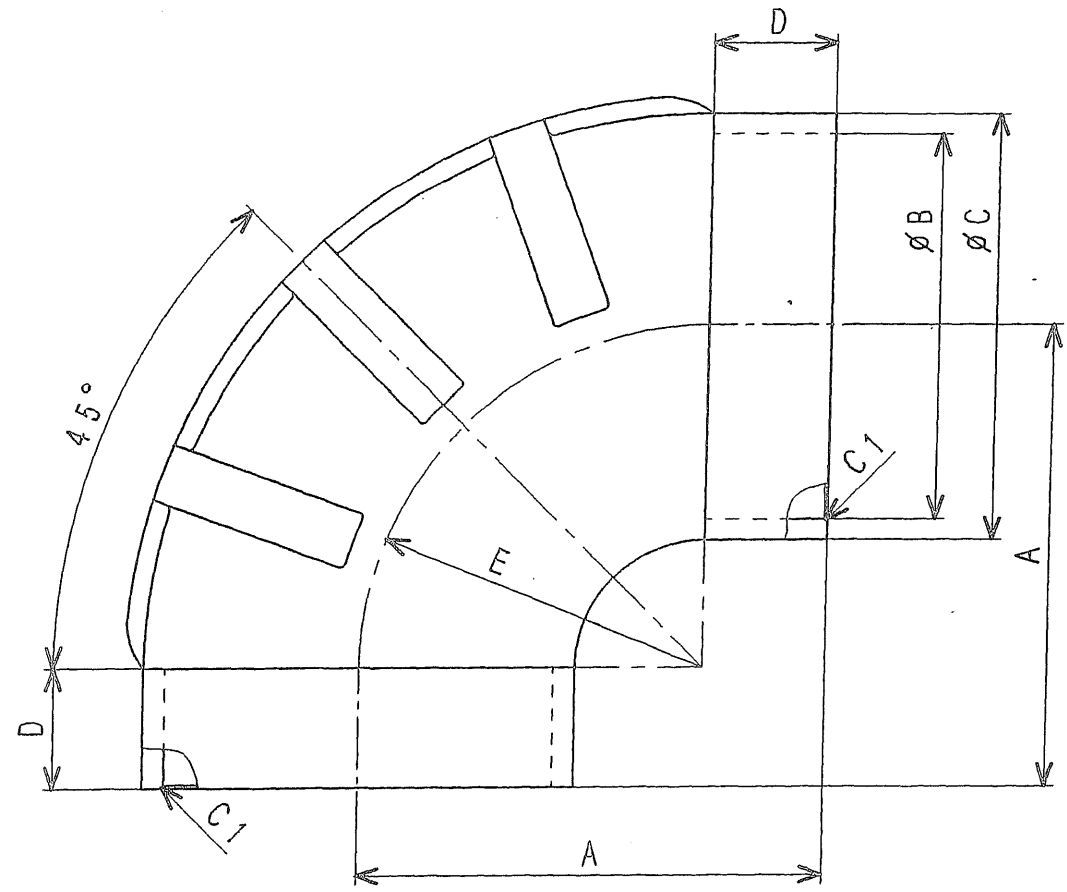
RAD. I/C ASSY W/F 16R  
PART NO. 37847-11300

MHI CONFIDENTIAL

DWG. NO. S33-4562  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY

*J. Furukawa*



47220-47600	∅160	145	160	176	40	100
47220-32600	7" (∅177.8)	184.2	177.8	194.6	50.8	133.4
47220-30400	6" (∅152.4)	177.8	152.4	166.4	50.8	127
47220-12100	5" (∅127.0)	152.4	127	141	40	112.4
PARTS NO.	TYPE MEASURE	A	B	C	D	E

MHI CONFIDENTIAL

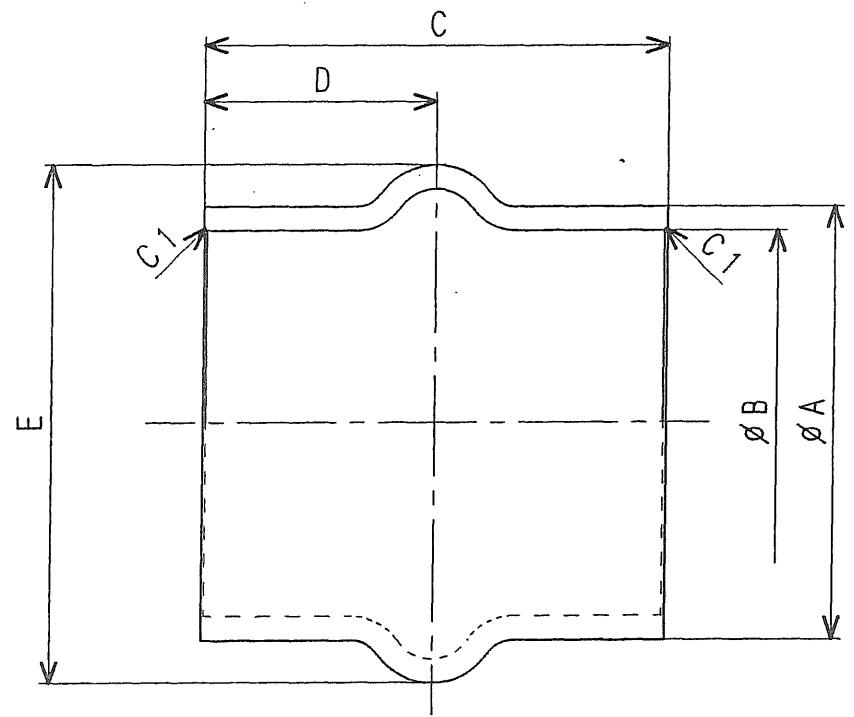
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REV.	DATE

HOSE, RUBBER

DWG. NO. S35-0701  
 MITSUBISHI HEAVY INDUSTRIES, LTD.  
 GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY

*M. Fukuda*




47220-47300	10" ( $\phi 254.0$ )	266.7	254	152.4	76.2	300
47220-31600	7" ( $\phi 177.8$ )	194	178	178	89	222
47220-30500	6" ( $\phi 152.4$ )	168.4	152.4	178	89	196.4
47220-13200	5" ( $\phi 127.0$ )	143	127	152.4	76.2	171
PARTS NO.	TYPE MEASURE	A	B	C	D	E

MHI CONFIDENTIAL

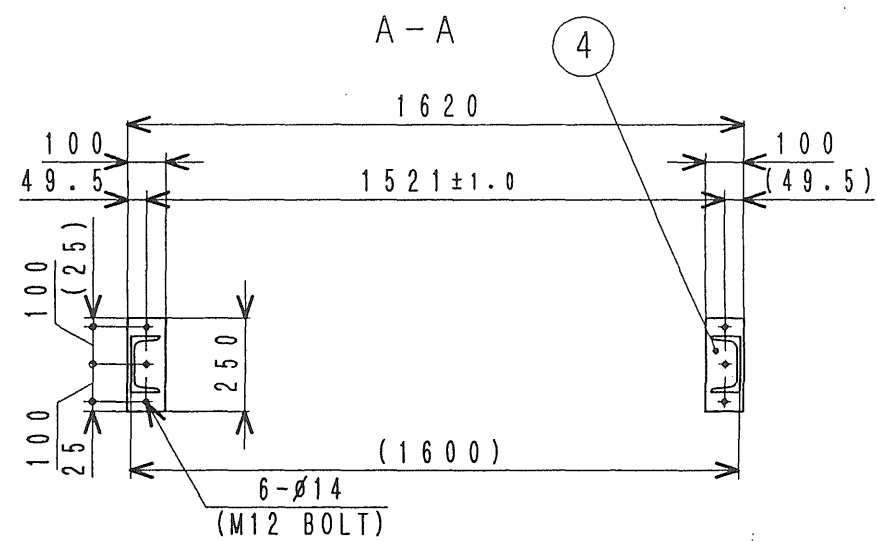
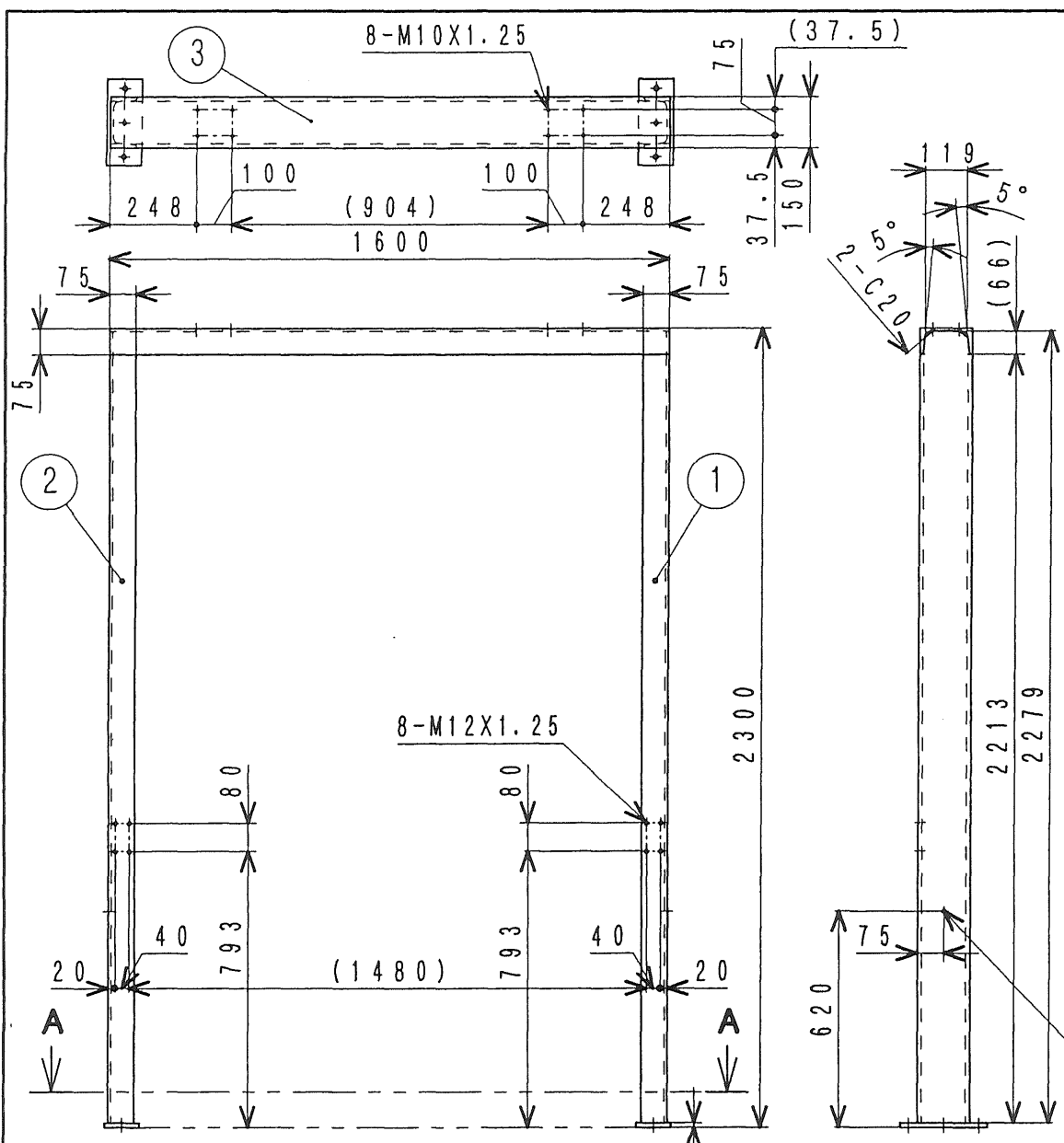
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REV.	DATE

HOSE, RUBBER

DWG. NO. S35-0711  
 MITSUBISHI HEAVY INDUSTRIES, LTD.  
 GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY

*J. Fukuda*



注記 (1) 接合部は確実に溶接のこと。特記なき溶接部は $\sqrt{6}$ または $\sqrt{10}$ としすべて連続全周溶接のこと。

NOTE (1) JOINTS MUST BE FIRMLY WELDED. WELDING MUST BE  $\sqrt{6}$  OR  $\sqrt{10}$  AND ALL AROUND, UNLESS OTHERWISE SPECIFIED.

4	PLATE	SS000F	FB100X12	2
3	CHANNEL	SS000A	U150X75X9X12.5	1
2	CHANNEL	SS000A	U150X75X9X12.5	1
1	CHANNEL	SS000A	U150X75X9X12.5	1
NO.	PART NAME	MATERIAL	SHAPE & DIMENSION	Q'TY

MHI CONFIDENTIAL

REV.	DATE

STAND, AIR PIPE  
PART NO. 47521-70502

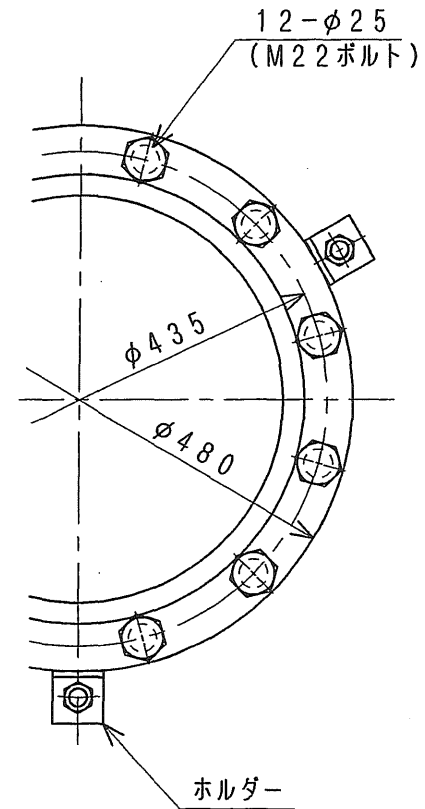
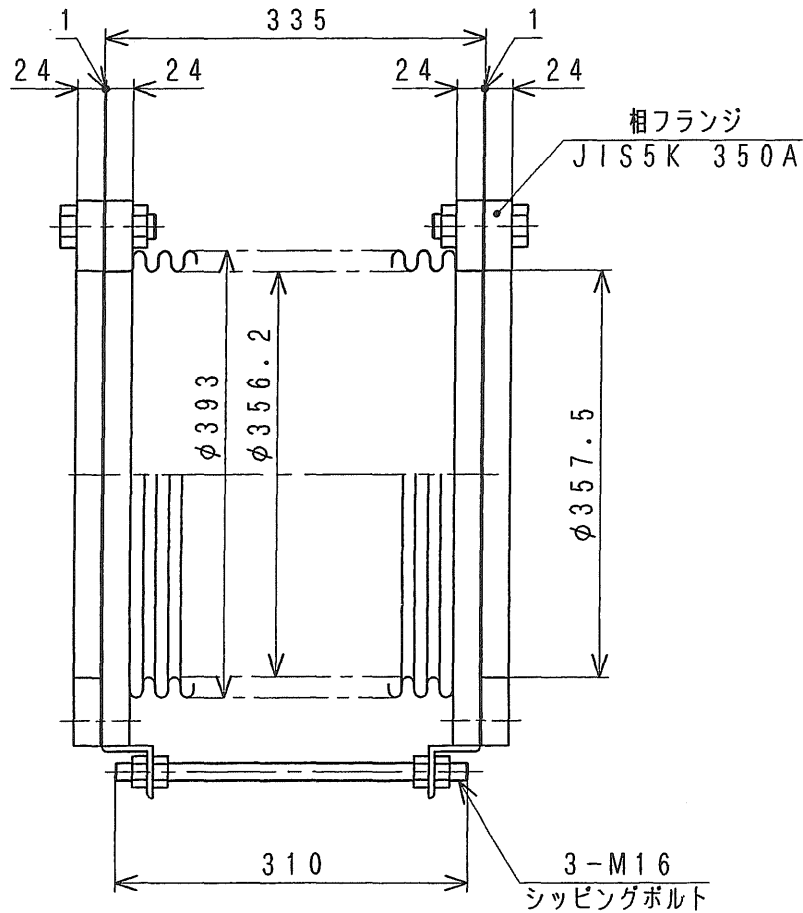
DWG. NO. S35-0920

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



CHECKED BY

Y. FUKUDA



注記 (1) 本部品は、相フランジ及びボルト、ナット付である。

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△	
REV.	DATE

PIPE, FLEXIBLE  
PART NO. 47920-12400

DWG. NO. S37-1090  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS