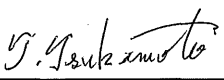



SPECIFICATION  
 OF  
 MITSUBISHI DIESEL ENGINE  
 MODEL : S6R2-PTA-C  
 FOR DIESEL GENERATOR SET

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 THAT FOR WHICH IT IS LOANED, IS PROHIBITED.

|  |  |  |      |            |  |  |  |  |   |   |
|--|--|--|------|------------|--|--|--|--|---|---|
|  |  |  |      |            |  |  |  |  | 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<br>respective governor controller |
|---------------|---|

## Safety stop device test

## Guarantee

The guarantee shall be validated 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-PTA-C                          |
| Type   | : | 4cycle stroke, water cooled diesel engine      |
| Combustion chamber   | : | Direct injection type                          |
| Aspiration   | : | Turbocharged with after cooler                 |
| Number of cylinders  | : | 6-L  |
| Bore × stroke  | : | 170mm × 220mm                                  |
| Total displacement   | : | 29.96 L  |
| Compression ratio  | : | 14.1 : 1                                       |
| firing order   | : | 1 - 5 - 3 - 6 - 2 - 4                          |
| Direction of rotation  | : | Counter clockwise as viewed from flywheel side |
| Engine dimensions  | : | Length   Apx. 1945.5mm                         |
|  | : | width     Apx. 1050.5mm                        |
|  | : | Height    Apx. 1578mm                          |
| Dry weight   | : | Apx. 2900kg (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  | : | 635kW/1500min <sup>-1</sup>                    |
| Fuel consumption ratio at Stand-by rating<br>(allowance +5%)         | : | 194g/kW-hr                                     |
| 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<br>SAE J620d 18in, except screw size |
| Flywheel housing           | : DWG.NO.37596-21001<br>SAE J617c NO.0, except screw size |
| Engine mounting            | : DWG.NO.37596-14001<br>4 points mounting, C = 160mm      |
| Torsional vibration damper | : Viscous type  |

## (2) Air intake system

|              |   |
|--------------|---|
| Air cleaner  | : DWG.NO.37596-30181<br>DWG.NO.37596-30383 loose supply<br>Donaldson FTG13L × 2 pcs<br>Paper element type with rain cap |
| Turbocharger | : MITSUBISHI TD Type<br>Model : TD15-50B(54)  |
| Air cooler   | : Jacket water cooled type<br>plated element type   |
| Air heater   | : Not supply  |

## (3) Exhaust system

|                  |   |
|------------------|---|
| Exhaust manifold | : Air cooled type without heat insulator  |
| Muffler          | : Not supply  |
| Flexible pipe    | : DWG.NO.S37-1080 (47920-00700) loose supply<br>JIS 200A, L = 230mm, Weight 38kg            |
| Companion flange | : Not supply  |
| Breather         | : DWG.NO.37596-43081<br>Downside direction type<br>For blow - off to outside of engine room |

## (4) Lubricating system

|                                   |   |   |
|-----------------------------------|---|---|
| Oil pump                          | : | Gear pump type  |
| Capacity of oil pump              | : | 1500min <sup>-1</sup> : 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 <sup>-1</sup> : 820 L/min.  |
| Thermostat             | : | Wax pellet type × 2pcs              |
|                        |   | Open at 71°C ~ 85°C                 |
| Fan                    | : | Pusher type steel fan 1010 diameter |
|                        |   | Fan speed ratio i = 0.806           |

## (6) Fuel system

|  |   |  |
|--|---|--|
| Fuel inlet pipings   | : | DWG.NO.37596-62113                       |
|  |   | For rubber hose joint (hose dia. φ 16mm) |
| Fuel return pipings  | : | DWG.NO.37596-61313                       |
|  |   | For rubber hose Joint (hose dia. φ 16mm) |
| Fuel overflow of Inj. Pump and fuel leak - off of Nozzle have to return to fuel tank |   |  |
| Injection pump   | : | Bosch type "PS6" without timer           |
| Feed pump  | : | Piston type with priming pump            |
| Injection Nozzle   | : | Hole type 0.325mm× 10 holes              |
| Fuel filter  | : | Paper element cartridge type × 2pcs      |
|  |   | Filter mesh : 5 μ                        |

## (7) Control system

|                     |   |
|---------------------|---|
| Governor            | : DWG.NO.37596-63016<br>Electronic speed governor<br>Speed droop : 0 ~ 5% adjustable  |
| Actuator            | : DWG.NO.S13-1761<br>Supply voltage : DC24V± 20%<br>Current consumption<br>At starting : 13A<br>Normal operation : 0.5 ~ 2A<br>Min. Supply voltage : DC16V50%ED |
| Controller          | : DWG.NO.S13-1042 loose supply<br>Model : XS-400B-03 (04410-33100)<br>Supply voltage : DC24V± 20%   |
| Potentiometer       | : For low idling speed setting<br>Not supply  |
| Potentiometer       | : For rated speed setting<br>Not supply   |
| Connector           | : DWG.NO.S13-1022 loose supply<br>From actuator to controller<br>5000mm length  |
| Magnetic pick up    | : DWG.NO.S13-2011<br>With connector   |
| Cable               | : DWG.NO.S13-2020 loose supply<br>From magnetic pick up to controller<br>4300mm length  |
| (8) Starting system |   |
| Starter switch      | : with key, with heat position<br>Not supply  |
| Starting motor      | : DC24V, 7.5KW<br>Reduction type with safety relay<br>with 2 poles connector (DWG. NO.S14-0320)   |
| Safety relay        | : DWG.NO.S10-0052 loose supply<br>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  |   |
|                              |                                 | Machanical type : 635mmH <sub>2</sub> O switch on   |

## (11) Instrument

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

## (12) Others

|                            |   |   |
|----------------------------|---|---|
| Belt cover                 | : | DWG.NO.37596-25180<br>For water pump and alternator |
| Service meter              | : | Not supply  |
| Tools (loose supply)       | : | Not supply  |
| Spare parts (loose supply) | : | Not supply  |

**4. ACCESSORIES (Loose supply parts)**

| NO. | PARTS NO.   | PARTS NAME        | Q' TY | DWG. NO. |                |
|-----|-------------|-------------------|-------|----------|----------------|
| 1   | 47220-39203 | AIR CLEANER ASSY. | 2     | S35-0511 | 37596-30383    |
| 2   | 47220-35200 | CAP               | 2     | S35-0650 |                |
| 3   | 47220-12100 | ELBOW, HOSE       | 2     | S35-0701 |                |
| 4   | 47220-39300 | BAND              | 4     | S35-0600 |                |
| 5   | 05317-51601 | CLAMP             | 4     |          |                |
| 21  | 47220-34401 | INDICATOR         | 2     | S11-0920 |                |
| 6   | 47920-00700 | FLEXIBLE JOINT    | 1     | S37-1080 |                |
| 12  | 04410-33100 | CONTROLLER        | 1     | S13-1042 | 37596-63016    |
| 14  | 04410-32902 | CONNECTOR         | 1     | S13-1022 |                |
| 15  | 04410-43500 | CABLE, PICK UP    | 1     | S13-2020 |                |
| 17  | F8665-02100 | CONNECTOR         | 1     | S14-0320 | for starter    |
| 18  | 04322-50001 | RELAY, CHATTERING | 1     | S10-0052 |                |
| 19  | 32B90-00300 | CONNECTOR         | 1     | S10-0550 | for alternator |
| 27  | MH052231    | CONNECTOR         | 1     | S14-0330 |                |

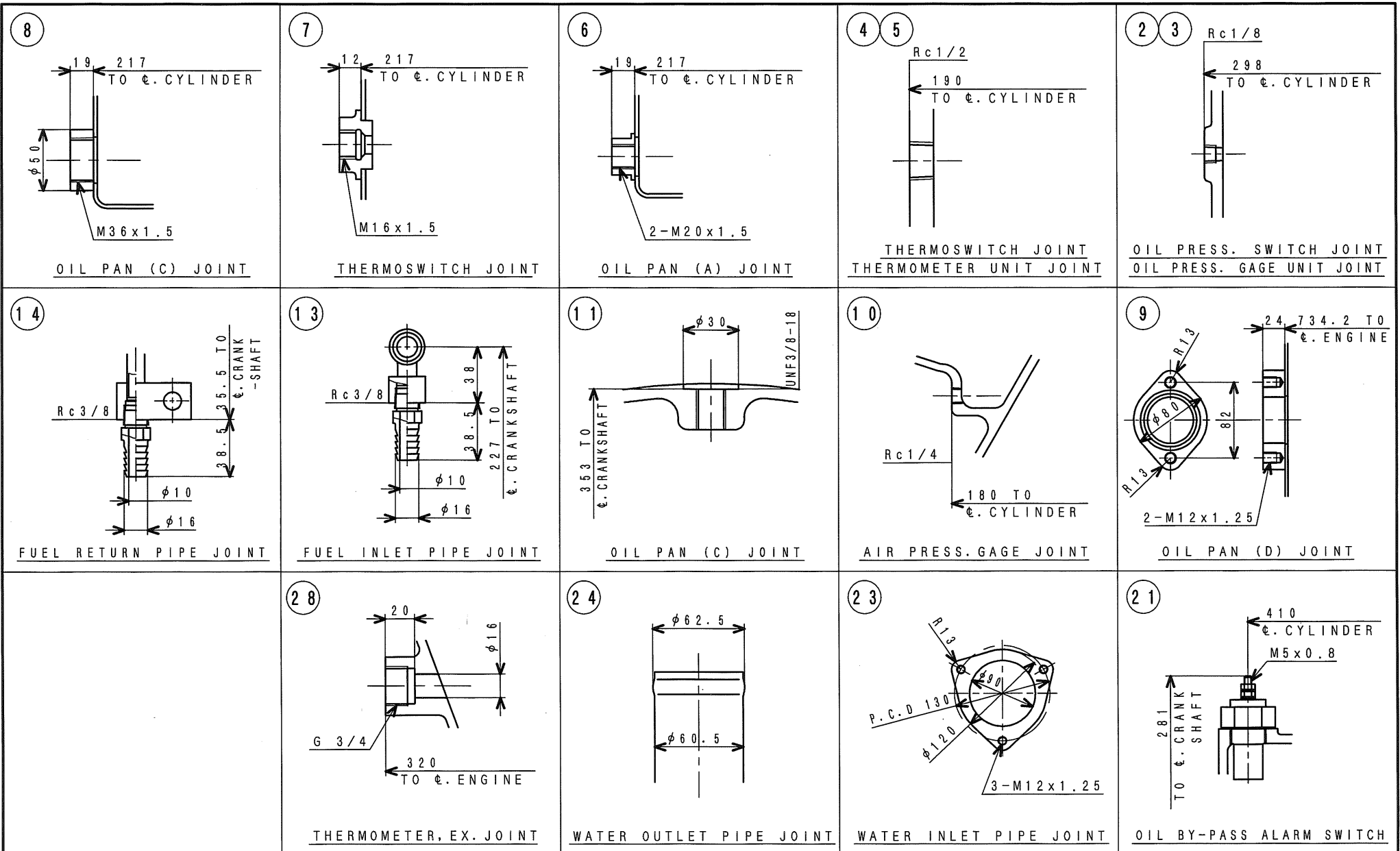
5. DRAWINGS

| NO. | DWG. NO.    | DWG. NAME                 | REV. |
|-----|-------------|---------------------------|------|
| 1   | 37596-00281 | ENGINE OUTLINE            |      |
| 2   | 37596-01018 | JOINT DETAIL              |      |
| 3   | 37596-04061 | WIRING DIAGRAM            |      |
| 4   | 37596-14001 | MOUNTING DETAIL           |      |
| 5   | 37596-21001 | FLYWHEEL & HOUSING DETAIL |      |
| 6   | 37596-25180 | BELT COVER                |      |
| 7   | 37596-30181 | AIR INLET PIPING          |      |
| 8   | 37596-30383 | AIR CLEANER               |      |
| 9   | 37596-43081 | BREATHER                  |      |
| 10  | 37596-61313 | FUEL RETURN PIPING        |      |
| 11  | 37596-62113 | FUEL INLET PIPING         |      |
| 12  | 37596-63016 | GOVERNOR                  |      |
| 13  | 37596-87502 | STOP SYSTEM               |      |
| 14  | 37596-90142 | METER & SENSOR            |      |
| 15  | 37596-90151 | METER & SENSOR            |      |
| 16  | 37596-90240 | ALARM SWITCH              |      |
| 17  | S10-0052    | SAFETY RELAY              |      |
| 18  | S10-0540    | ALTERNATOR                |      |
| 19  | S10-0550    | CONNECTOR                 |      |
| 20  | S11-0551    | THERMO SWITCH             |      |
| 21  | S11-0796    | PRESSURE SWITCH           |      |
| 22  | S11-0920    | INDICATOR                 |      |
| 23  | S11-1370    | FILTER ALARM SWITCH       |      |
| 24  | S13-0282    | SOLENOID                  |      |
| 25  | S13-1022    | CONNECTOR                 |      |
| 26  | S13-1042    | CONTROLLER                |      |
| 27  | S13-1761    | ACTUATOR                  |      |
| 28  | S13-2011    | MAGNETIC PICK UP          |      |
| 29  | S13-2020    | PICK UP CABLE             |      |
| 30  | S14-0320    | CONNECTOR                 |      |
| 31  | S14-0330    | CONNECTOR                 |      |

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| NO. | DWG. NO. | DWG. NAME     | REV. |
|-----|----------|---------------|------|
| 32  | S35-0511 | AIR CLEANER   |      |
| 33  | S35-0600 | BAND          |      |
| 34  | S35-0650 | CAP           |      |
| 35  | S35-0701 | ELBOW         |      |
| 36  | S37-1080 | FLEXIBLE PIPE |      |





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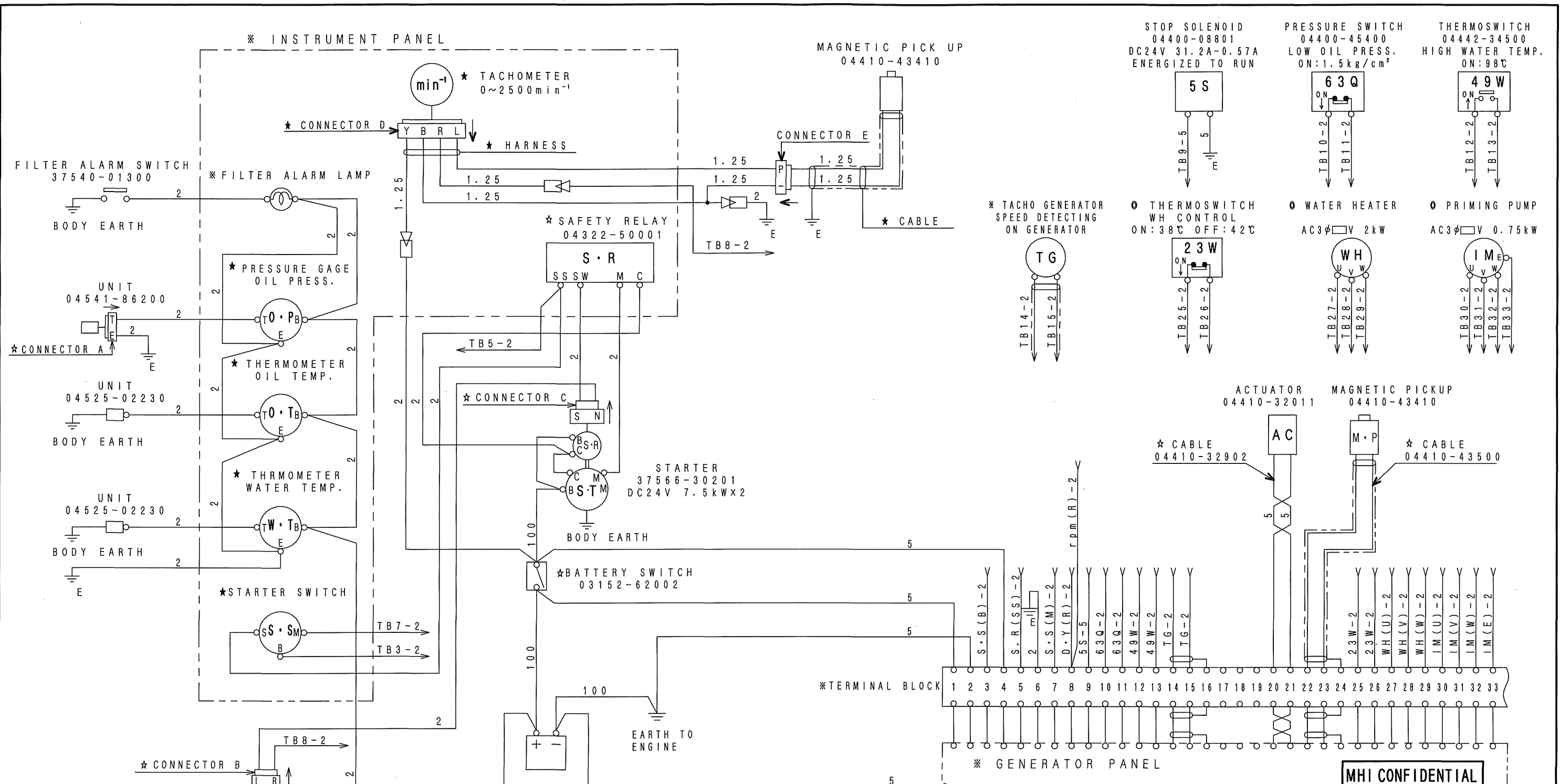
注記 (1) 本図は、S6R及びS6R2-PTA用(ファン付)ジョイント詳細図である。

|            |       |            |           |
|------------|-------|------------|-----------|
| CHG        | EQ-NO | DATE       | CHK       |
| 認可<br>APPD |       | 検図<br>CHK  | 製図<br>DRN |
|            |       | 塚 中<br>本 村 | 谷 戸       |
|            |       |            | 2012.12.7 |

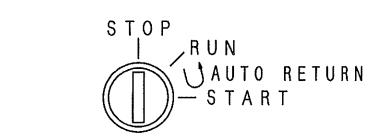
S6R, S6R2  
JOINT DETAIL  
三菱重工業株式会社 汎用機・特車事業本部  
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.  
図面番号 37596-01018  
DRAWING No.

①新図 ②替換部品 ③板金済部品 ④組立品  
④旧引図 ⑤切明品 ⑥その他(購入品)

M/C

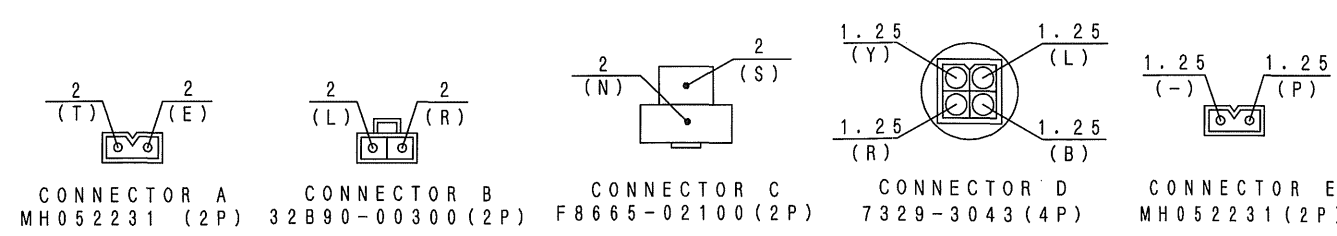


- (7) THE MARK ★ IS SUPPLIED. (NOT SUPPLY)
- (6) LENGTH OF CABLE BETWEEN BATT. AND BATT. SWITCH CONTROL POINT SHOULD BE LESS THAN 10M. IN CASE WHERE LENGTH OF PAID CABLE WOULD BE MORE THAN 10M, CABLE SIZE SHALL BE CONSIDERED. DISTINATION WIRE SIZE
- (5) THE MARK ○ SHOWS OPTION PARTS.
- (4) MEANING OF 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.



STARTER SWITCH KEY SWITCH CONDITION

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



|     |       |      |     |
|-----|-------|------|-----|
| CHG | EO-NO | DATE | CHK |
| 製図  | DATE  | 製図   | CHK |
| 検印  | 製図    | 製図   | CHK |
| 検印  | 製図    | 製図   | CHK |

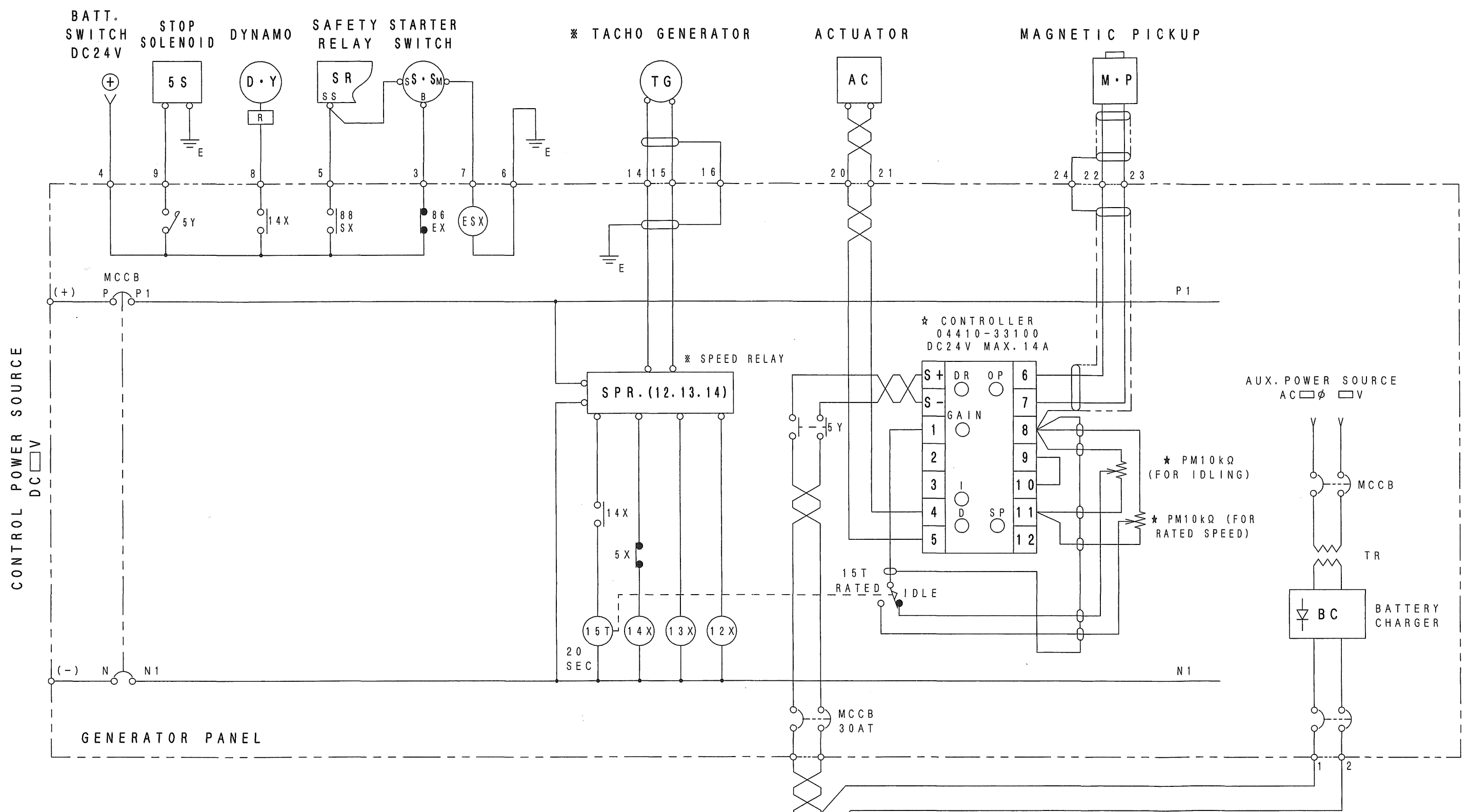
2012.11.28

**MHI CONFIDENTIAL**

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 HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 37596-04061 1/2



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.  
 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 1 METRE AND LESS THAN 2Ω OF RESISTANCE ON BATTERY LINE AND ACTUATOR LINE TWIST CABLE.

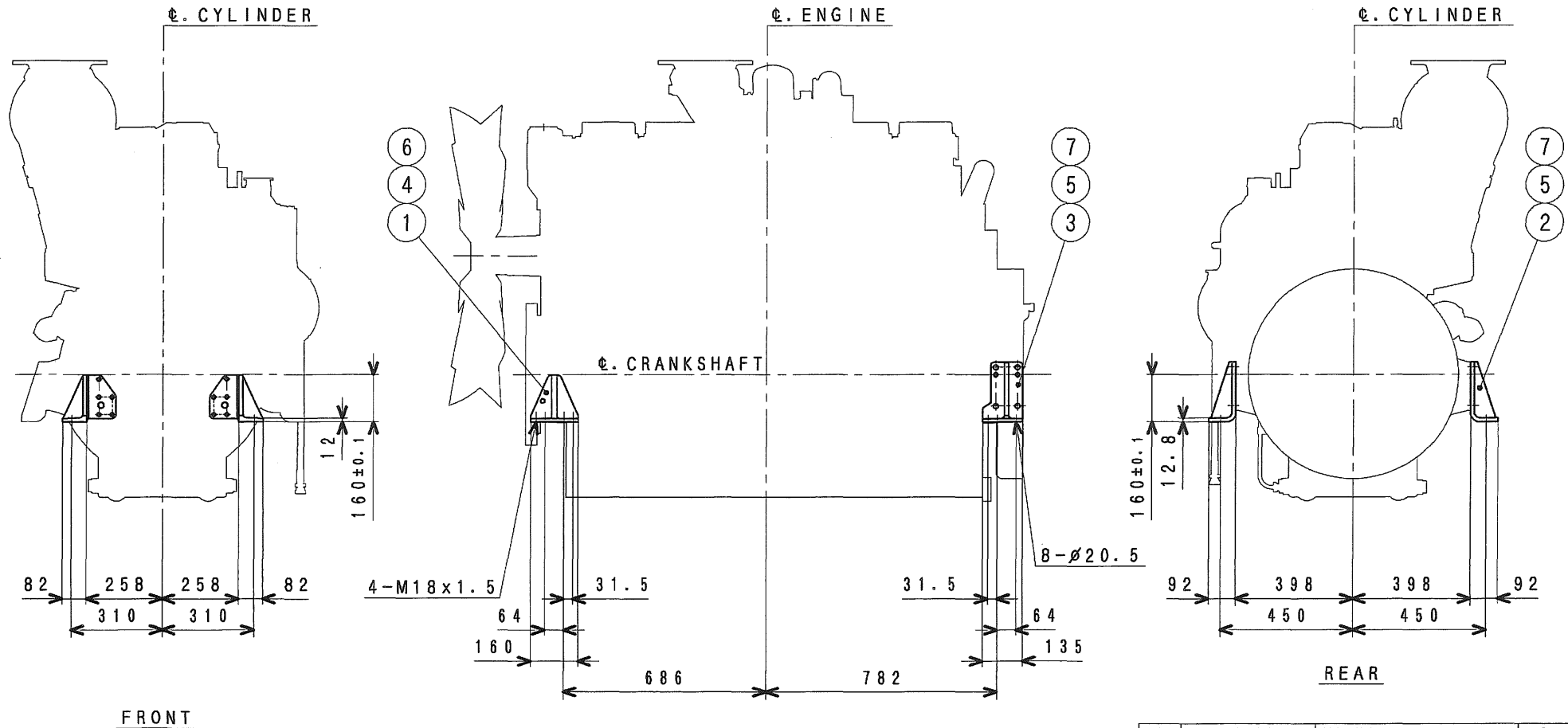
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|            |       |      |     |
|------------|-------|------|-----|
| CHG        | EO-NO | DATE | CHK |
| APPD       | CHK   | DATE | CHK |
| 2012.11.29 |       |      |     |

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 HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.  
 図面番号 37596-04061  
 DRAWING No. 2/2

① 新図 ② 訂正 ③ 相立図 ④ 納品書 ⑤ 板金増設品 ⑥ 相立品  
 ⑦ 旧図 ⑧ A 2 ⑨ 切附品 ⑩ 6

M/C



FRONT

REAR

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|     |             |                      |      |
|-----|-------------|----------------------|------|
| 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<br>APPD | 仁<br>尾    | 換図<br>CHK   | 竹<br>谷<br>福<br>田 |
|            |           | 製図<br>DRN   | 谷<br>戸<br>斎<br>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.

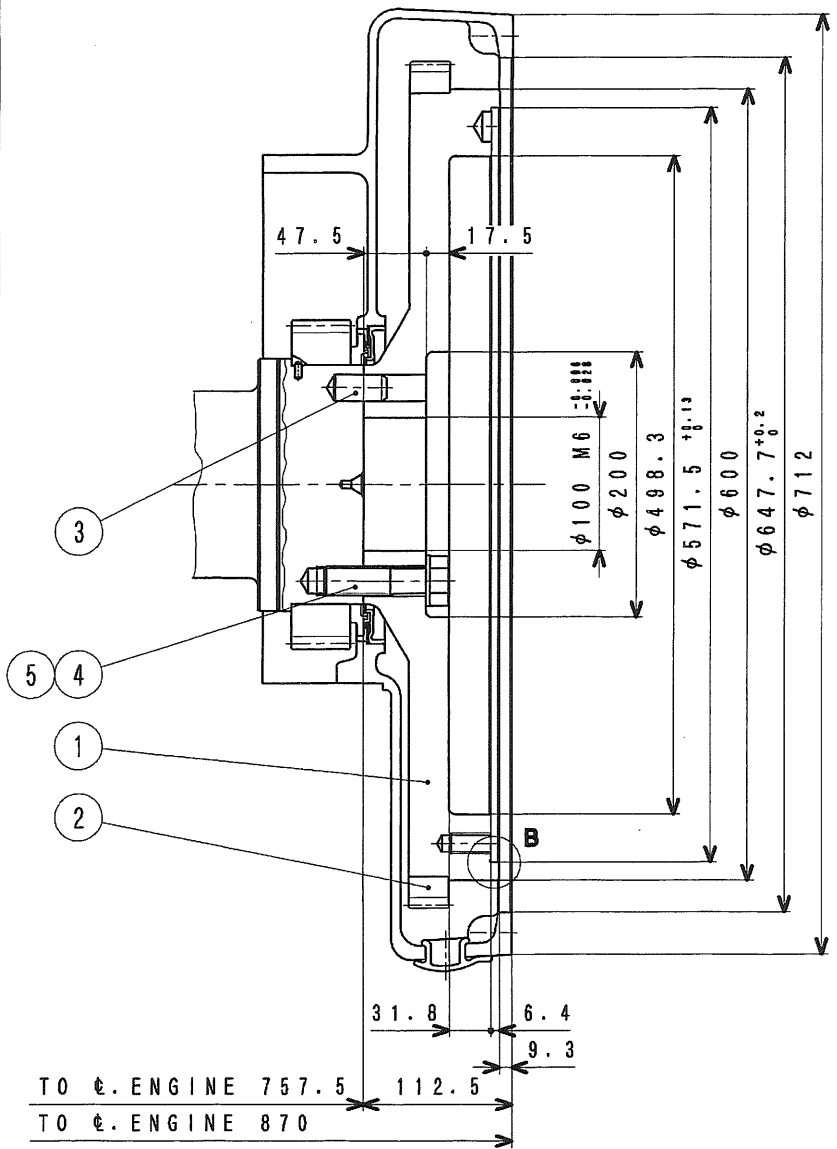
図面番号 37596-14001  
DRAWING No. 37596-14001

注記 (1) 本図は、陸用標準 (C=160) マウンティングである。

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

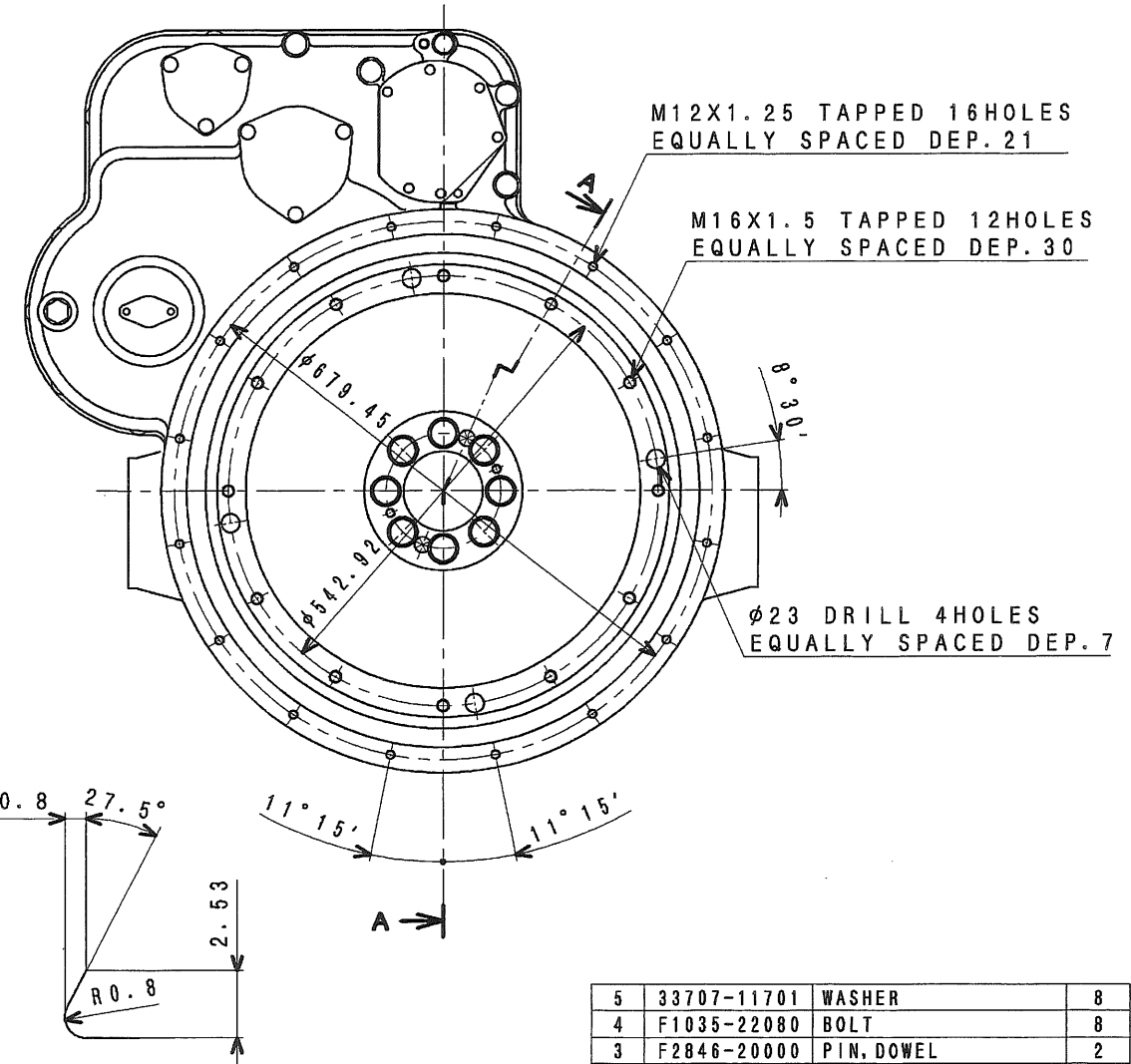
旧引  
汎特  
2008  
11.11

FULL-CAD



SECTION A-A

TO  $\phi$ . ENGINE 757.5 112.5  
 TO  $\phi$ . ENGINE 870 9.3



DETAIL B

M12X1.25 TAPPED 16HOLES  
 EQUALLY SPACED DEP. 21

M16X1.5 TAPPED 12HOLES  
 EQUALLY SPACED DEP. 30

$\phi$ 23 DRILL 4HOLES  
 EQUALLY SPACED DEP. 7

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

|            |                  |             |             |
|------------|------------------|-------------|-------------|
| 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        | EO-NO            | DATE        | CHK         |
| 認可<br>APPD | 橋                | 検図<br>CHK   | 塚<br>本<br>村 |
| 製図<br>DRN  | 谷<br>齊<br>戸<br>藤 | 1997. 9. 22 |             |

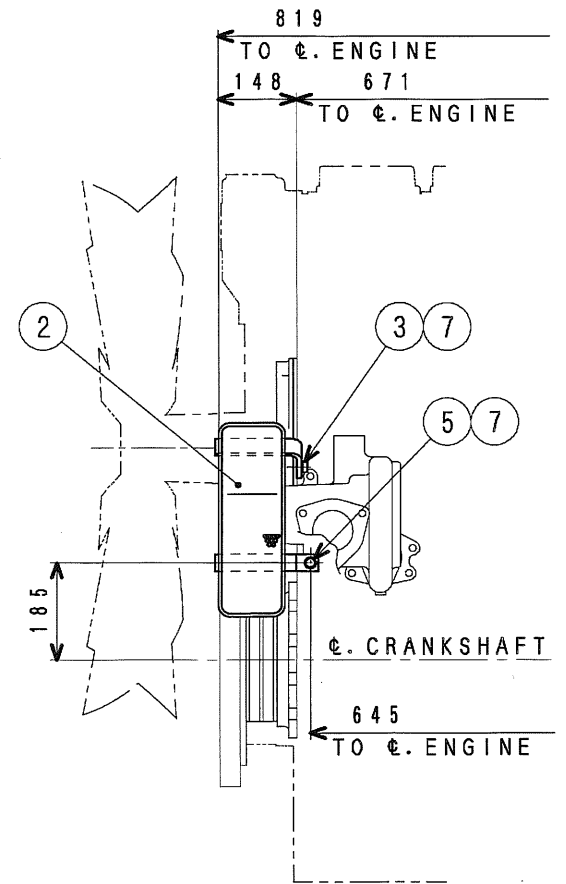
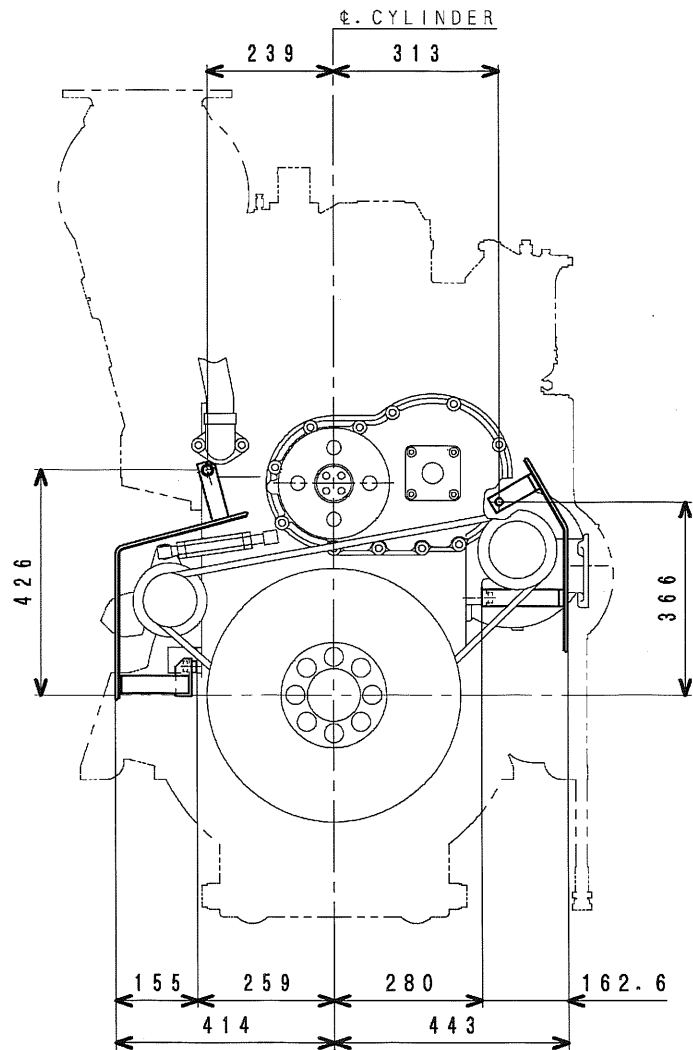
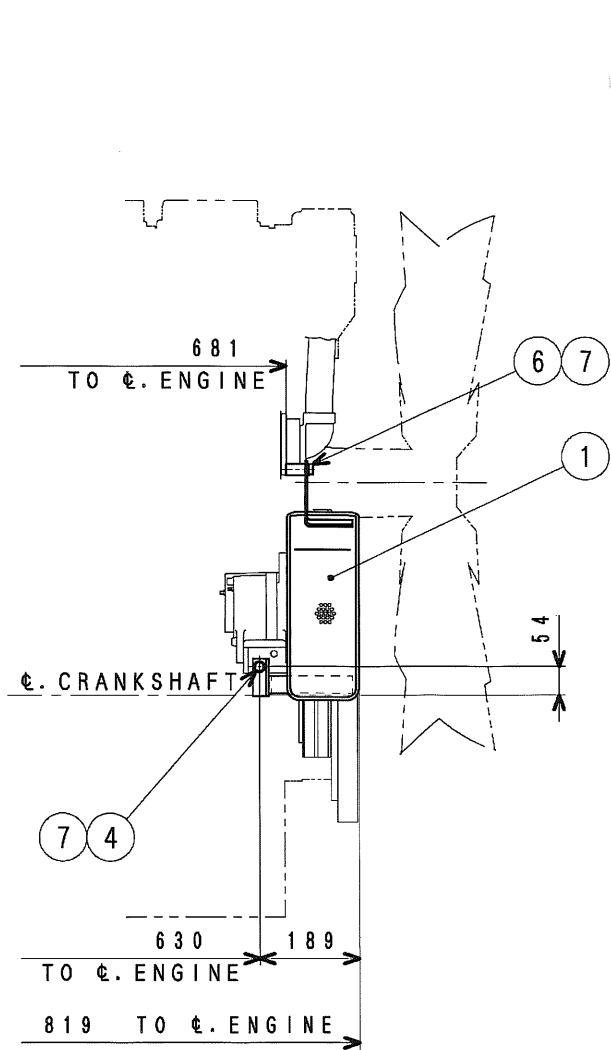
S6R  
 FLYWHEEL & HOUSING  
 三菱重工業株式会社 汎用機・特車事業本部  
 MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.  
 図面番号  
 DRAWING No. 37596-21001

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、SAE J620c18 in フライホイール及び SAE J617b 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 新図  
 4 旧引図  
 1 組立図  
 2 鋳造部品  
 5 切削品  
 3 板金溶接品  
 6 その他(購入品)  
 4 組立品



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

MHI CONFIDENTIAL

|            |           |             |                  |
|------------|-----------|-------------|------------------|
| 2          | 4590-B075 | '05. 4. 8   | 浅沼               |
| 1          | 4590-7245 | '00.11.10   | 福田               |
| CHG        | EO-NO     | DATE        | CHK              |
| 認可<br>APPD | 松<br>下    | 検図<br>CHK   | 竹<br>谷<br>福<br>田 |
|            |           | 製図<br>DRN   | 谷<br>戸           |
|            |           | 1997. 6. 20 |                  |

S6R2

BELT COVER

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

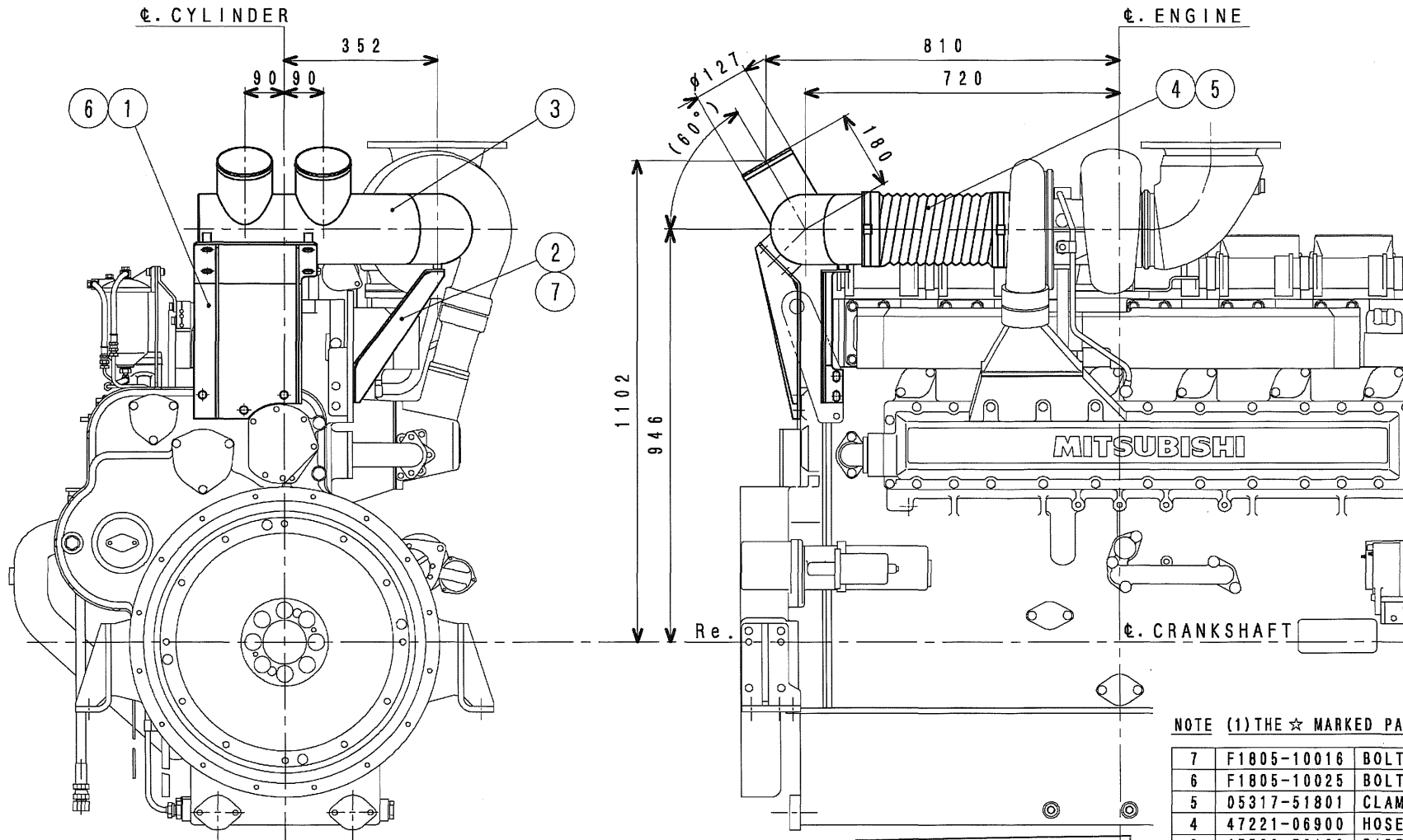
図面番号  
DRAWING No. 37596-25180

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

3 新図 サイズ A 3 組立図 2 鋼線巻車品 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)

旧引  
汎特  
2005  
4.19

FULL-CAD



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

| No. | PARTS NO.   | PARTS NAME | Q' TY |
|-----|-------------|------------|-------|
| 7   | F1805-10016 | BOLT       | 1     |
| 6   | F1805-10025 | BOLT       | 4     |
| 5   | D5317-51801 | CLAMP      | 2     |
| 4   | 47221-06900 | HOSE, AIR  | 1     |
| 3   | 47500-70100 | PIPE, AIR  | 1     |
| 2   | 47500-70400 | STAY       | 1     |
| 1   | 47500-74200 | BRACKET    | 1     |

MHI CONFIDENTIAL

|            |           |           |             |
|------------|-----------|-----------|-------------|
| CHG        | ED-NO     | DATE      | CHK         |
| 1          | 4590-D590 | '08.11.25 | 斉藤          |
| 認可<br>APPD | 橋         | 検図<br>CHK | 竹 福<br>谷 田  |
|            |           | 製図<br>DRW | 斉<br>藤      |
|            |           |           | 1999. 5. 14 |

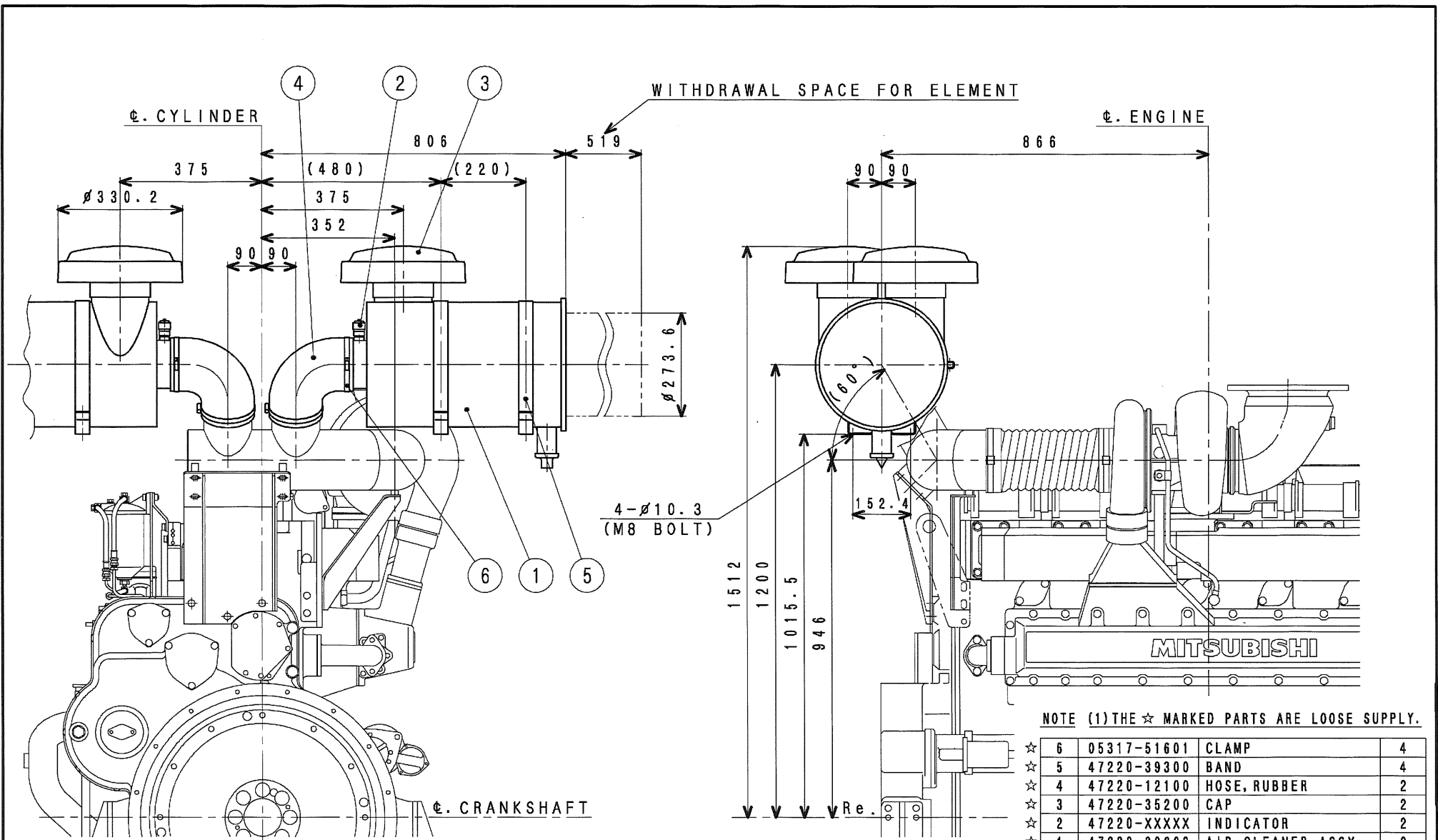
S6R2  
 AIR INLET PIPING  
 三菱重工業株式会社 汎用機・特車事業本部  
 MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.  
 図面番号 37596-30181

(2) 本図は、ドナルドソン製 FTG13LX2 (別置型) エアクリーナバイピング図である。  
 注記 (1) 本図は、DWG. NO. 37596-30383との組合せによる。

旧引  
 汎特  
 2009  
 3.24

FULL-CAD

3 新図 サイズ A 3  
 4 旧引図  
 5 別置機部品  
 6 切削品  
 7 組立図  
 8 板金溶接品  
 9 その他(購入品)



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

| No. | PARTS NO.   | PARTS NAME        | Q' TY |
|-----|-------------|-------------------|-------|
| ☆ 6 | 05317-51601 | CLAMP             | 4     |
| ☆ 5 | 47220-39300 | BAND              | 4     |
| ☆ 4 | 47220-12100 | HOSE, RUBBER      | 2     |
| ☆ 3 | 47220-35200 | CAP               | 2     |
| ☆ 2 | 47220-XXXXX | INDICATOR         | 2     |
| ☆ 1 | 47220-39203 | AIR CLEANER ASSY. | 2     |

MHI CONFIDENTIAL

注記 (1) 本図は、DWG. NO. 37596-30181との組合せによる。  
 (2) 本図のエアクリーナは、ドナルドソン製 FTG13L型X2である。

|             |        |           |     |
|-------------|--------|-----------|-----|
| CHG         | ED-NO  | DATE      | CHK |
| 橋口          |        | '08.11.21 | 斉藤  |
| 製図 DRN      | 換図 CHK | 承認 APPD   |     |
| 奇藤          | 竹谷     | 福田        |     |
| 1999. 5. 14 |        |           |     |

S6R2

AIR CLEANER

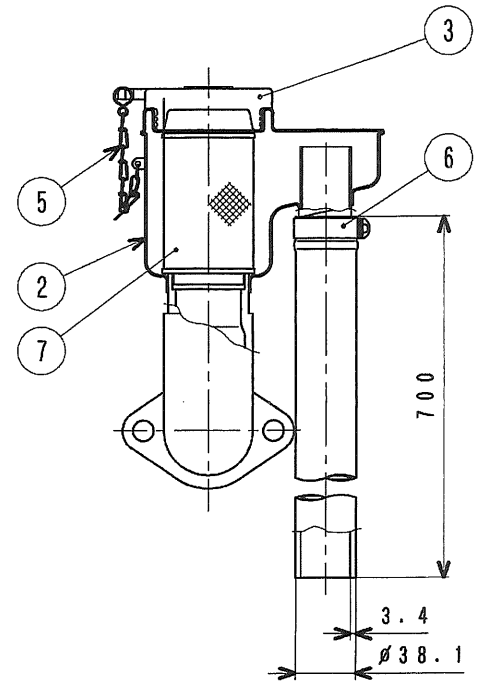
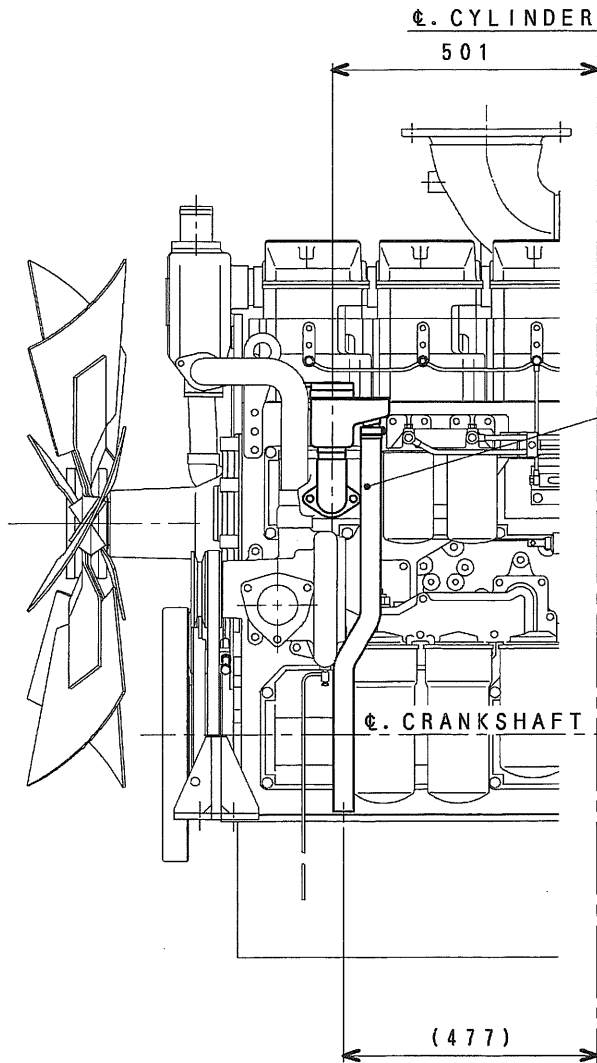
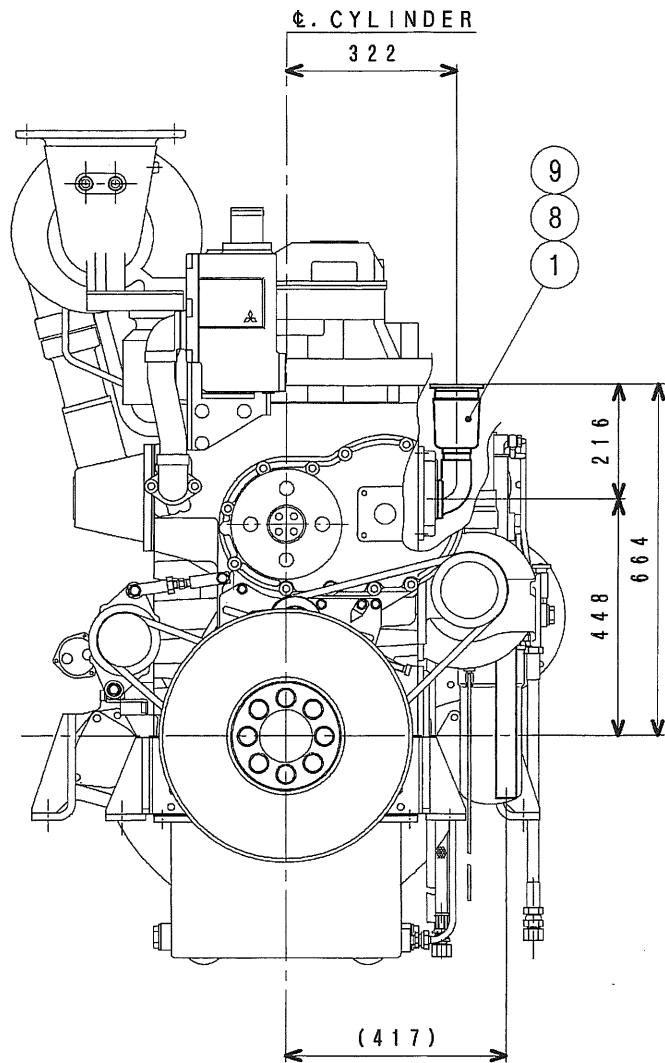
三菱重工業株式会社 汎用機・特車事業本部  
 MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 37596-30383  
 DRAWING No. 37596-30383

3 新図 サイズ A 3  
 ① 組立図 2 鋳造標準品 3 板金溶接品 4 組立品  
 ② 旧図 5 切削品 6 その他(購入品)

旧引  
 汎特  
 2009  
 3.24

FULL-CAD



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       | 3rd ANGLE<br>PROJECTION<br>尺度 SCALE |    |
| 1          | 4590-7246 | '00.11.10 | 福田       |                                     |    |
| CHG        | ED-NO     | DATE      | CHK      |                                     |    |
| 認可<br>APPD | 松下        | 検図<br>CHK | 福田<br>谷戸 | 製図<br>DRN                           | 齊藤 |
|            |           |           |          | 1999. 5. 20                         |    |

S6R2

BREATHER

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

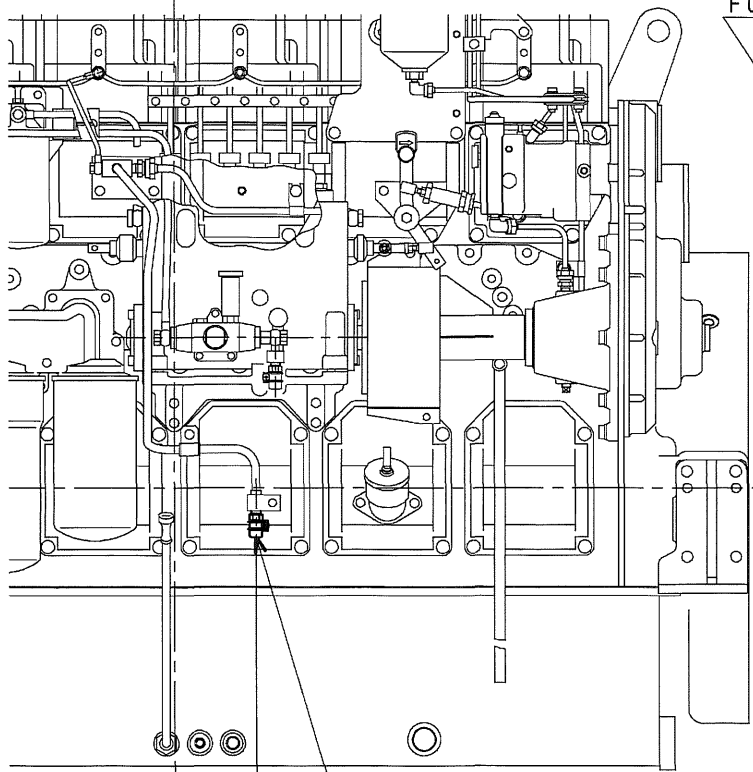
図面番号 37596-43081

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

∅. ENGINE

∅. CYLINDER

FUEL INLET PIPE JOINT



RE.

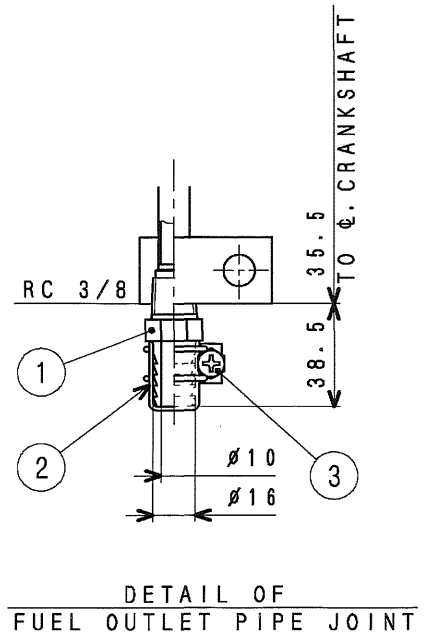
IN

OUT

∅. CRANKSHAFT

294

FUEL OUTLET PIPE JOINT



DETAIL OF FUEL OUTLET PIPE JOINT

MHI CONFIDENTIAL

| 3   | F4300-01800 | CLAMP, HOSE | 1    |
|-----|-------------|-------------|------|
| 2   | 47502-59600 | CAP, VINYL  | 1    |
| 1   | 47302-04100 | NIPPLE      | 1    |
| No. | PARTS NO.   | PARTS NAME  | Q'TY |

出図  
 汎特  
 2008  
 10.10

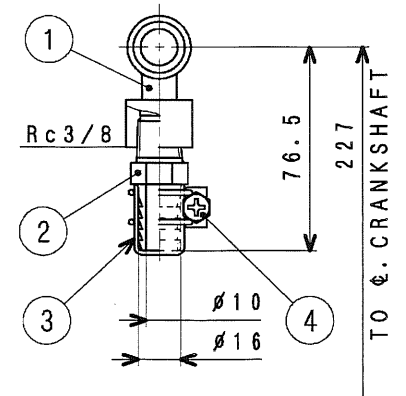
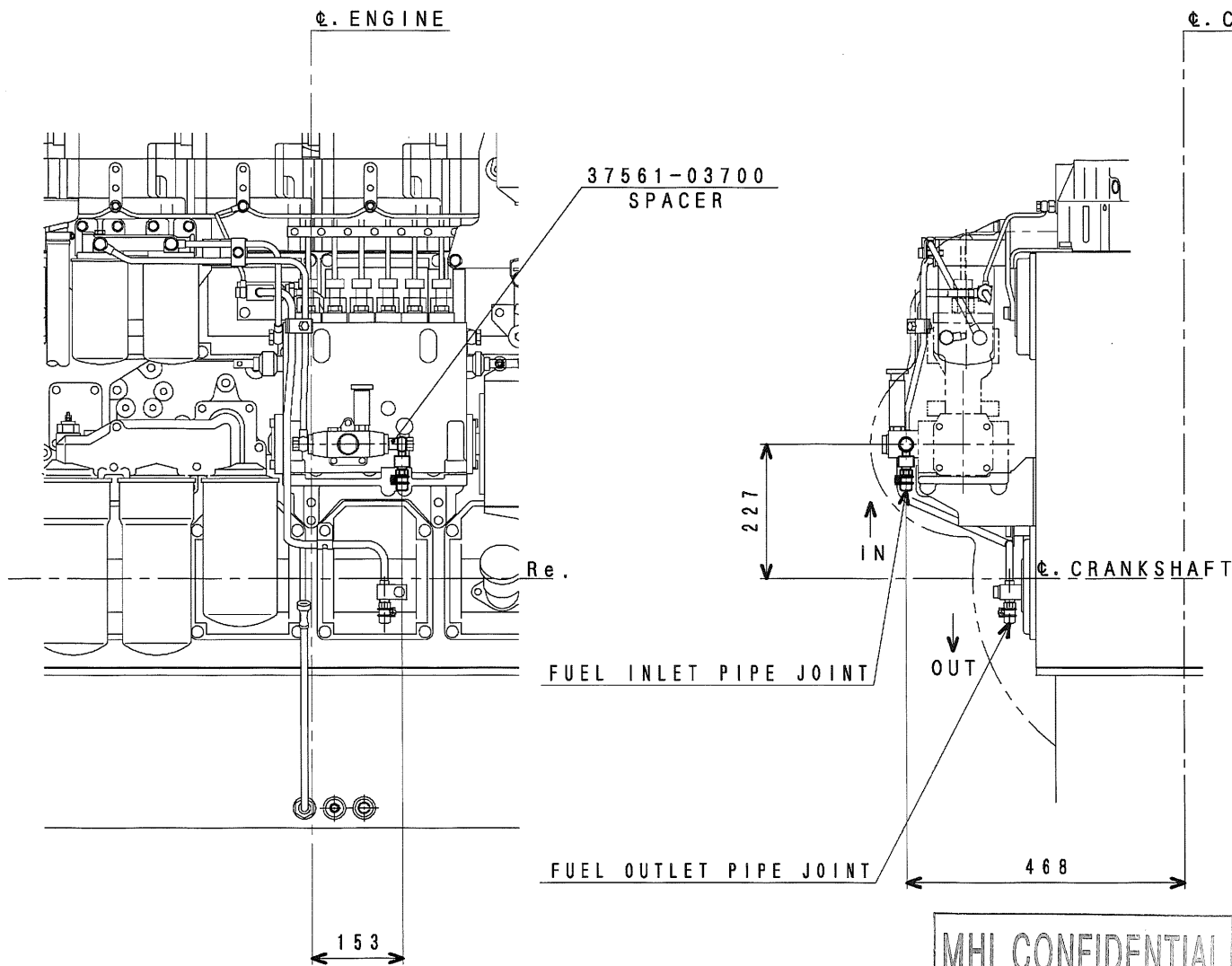
FULL-CAD

|         |       |        |       |                                  |
|---------|-------|--------|-------|----------------------------------|
| CHG     | EO-NO | DATE   | CHK   | 3rd ANGLE PROJECTION<br>尺度 SCALE |
| 認可 APPD | 橋     | 検図 CHK | 三谷 上戸 | 製図 DRN 浅沼                        |
|         |       |        |       | 2008.10.1                        |

S6R, S6R2  
 FUEL RETURN PIPING  
 三菱重工業株式会社 汎用機・特車事業本部  
 MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.  
 図面番号 37596-61313  
 DRAWING No.

注記 (1) 本図は37596-61311に対し、燃料漏れ対策用ビニールキャップを追加したものである。

③ 折図 サイズ A 3  
 ④ 組立図  
 ② 跡線標準品  
 ⑤ 切別品  
 ③ 板金溶接品  
 ⑥ その他(購入品)  
 ④ 組立品



DETAIL OF FUEL INLET PIPE JOINT

| No. | PARTS NO.   | PARTS NAME  | Q'TY |
|-----|-------------|-------------|------|
| 4   | F4300-01800 | CLAMP, HOSE | 1    |
| 3   | 47502-59600 | CAP, VINYL  | 1    |
| 2   | 47302-04100 | NIPPLE      | 1    |
| 1   | 45680-50200 | CONNECTOR   | 1    |

MHI CONFIDENTIAL

|         |  |  |  |       |  |  |  |           |  |  |  |       |  |  |  |
|---------|--|--|--|-------|--|--|--|-----------|--|--|--|-------|--|--|--|
| CHG     |  |  |  | EO-NO |  |  |  | DATE      |  |  |  | CHK   |  |  |  |
| 認可 APPD |  |  |  | 橋     |  |  |  | 検図 CHK    |  |  |  | 三谷 上戸 |  |  |  |
|         |  |  |  |       |  |  |  | 製図 DRN    |  |  |  | 浅沼    |  |  |  |
|         |  |  |  |       |  |  |  | 2008.10.1 |  |  |  |       |  |  |  |

S6R, S6R2  
**FUEL INLET PIPING**  
 三菱重工業株式会社 汎用機・特車事業本部  
 MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.  
 図面番号 37596-62113  
 DRAWING No. 37596-62113

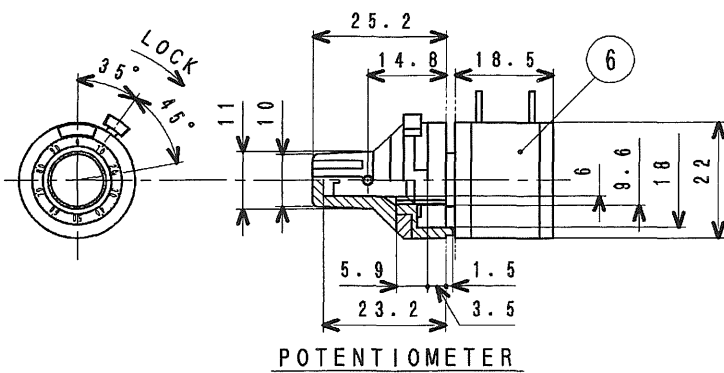
注記 (1) 本図は37596-62106に対し、燃料漏れ対策用ビニールキャップを追加したものである。

出図  
 汎特  
 2008  
 10.10

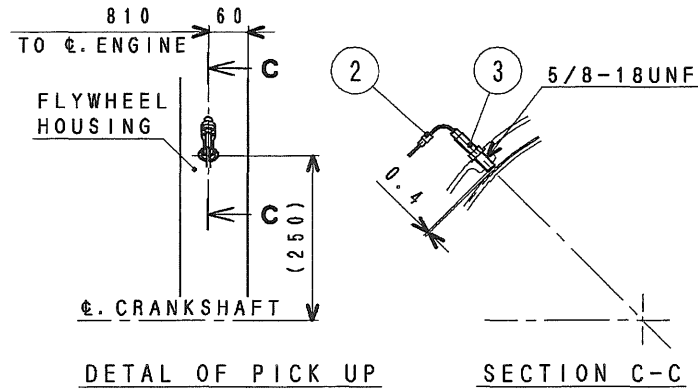
FULL-CAD

③新図 サイズ A 3 ①相立図 2 鋳造標準品 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)



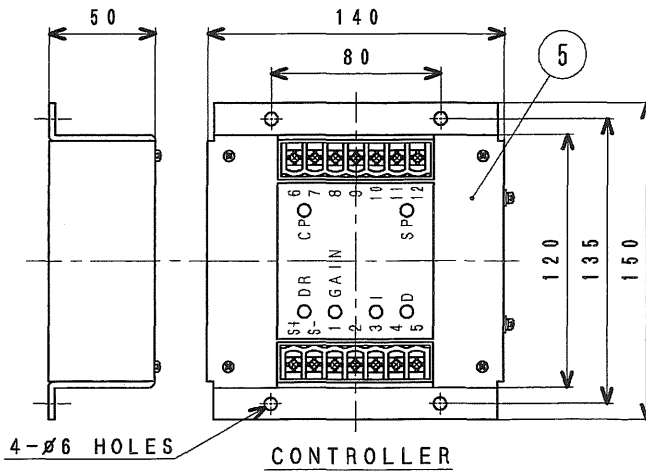


POTENTIOMETER



DETAL OF PICK UP

SECTION C-C



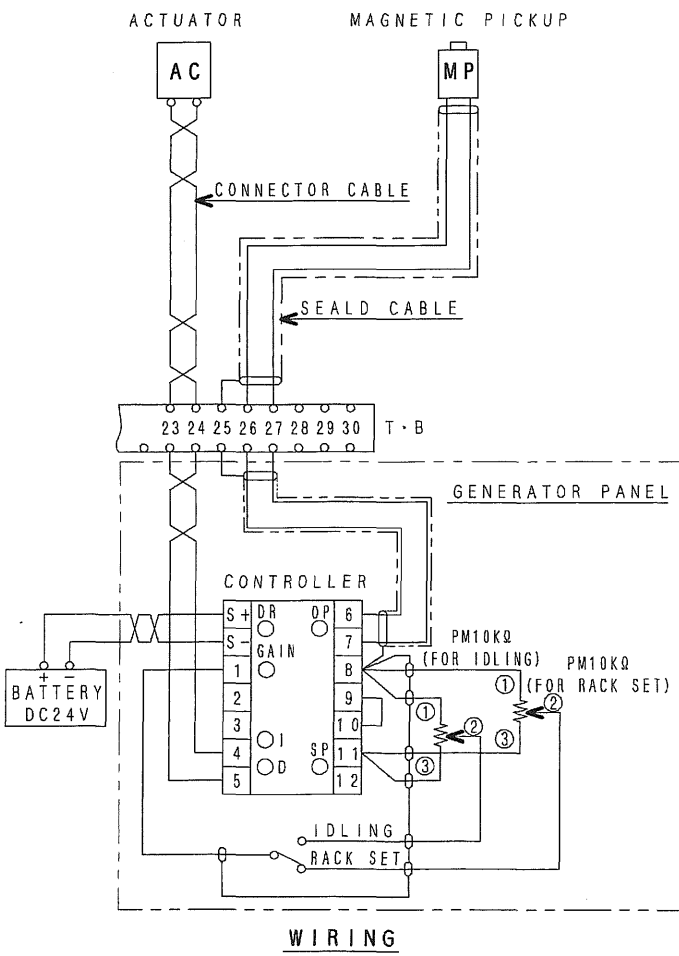
CONTROLLER

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     |

☆  
☆  
☆

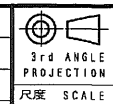
|    |             |                     |   |
|----|-------------|---------------------|---|
| 42 | F2320-08000 | NUT                 | 2 |
| 41 | F2320-06000 | NUT                 | 8 |
| 40 | F1805-12035 | BOLT                | 4 |
| 39 | F1805-12025 | BOLT                | 2 |
| 38 | F1805-10040 | 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 (MB-R)  | 1 |
| 19 | 35A61-38601 | JOINT, BALL (MB-R)  | 2 |
| 18 | 35A61-38701 | JOINT, BALL (MB-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 |



WIRING

MHI CONFIDENTIAL

|     |           |           |     |
|-----|-----------|-----------|-----|
| CHG | EO-NO     | DATE      | CHK |
| 橋口  | 4590-E100 | '08.11.21 | 斉藤  |
| 橋口  | 4590-4939 | '99. 2.11 | 谷戸  |
| 橋口  |           |           |     |

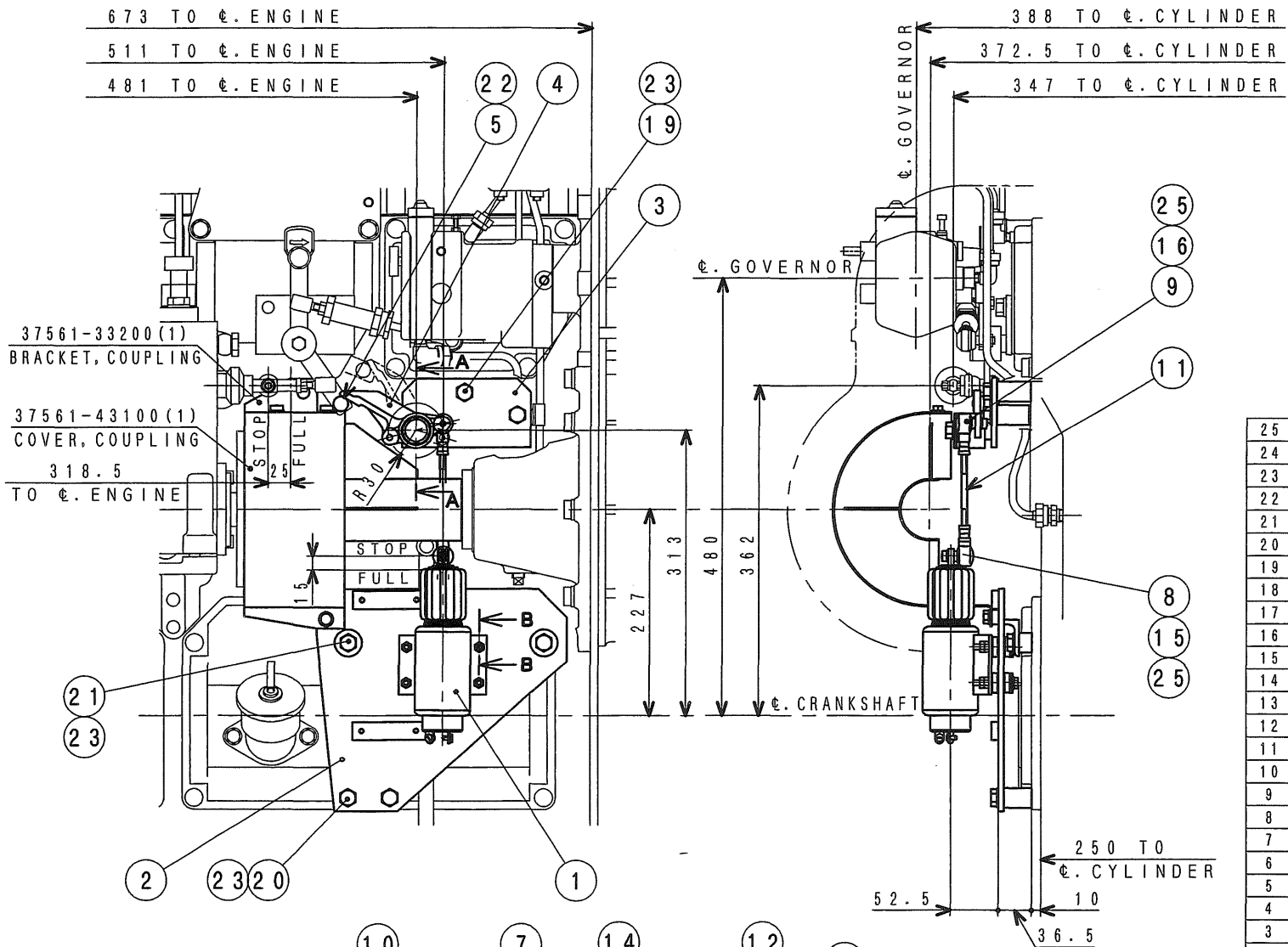


S6R, S6R2  
GOVERNOR  
三菱重工業株式会社 汎用機・特車事業本部  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.  
図画番号 37596-63016  
DRAWING No. 37596-63016 2/2

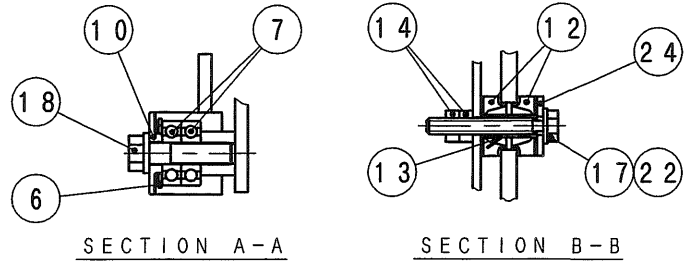
旧引  
汎特  
2009  
3.24

FULL-CAD

3 新図 ナイス  
① 旧引図 A 3  
② 組立図 ③ 脚跡部用品 ④ 組立品  
⑤ 初期品 ⑥ その他(購入品)



|     |             |                    |      |
|-----|-------------|--------------------|------|
| 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 |

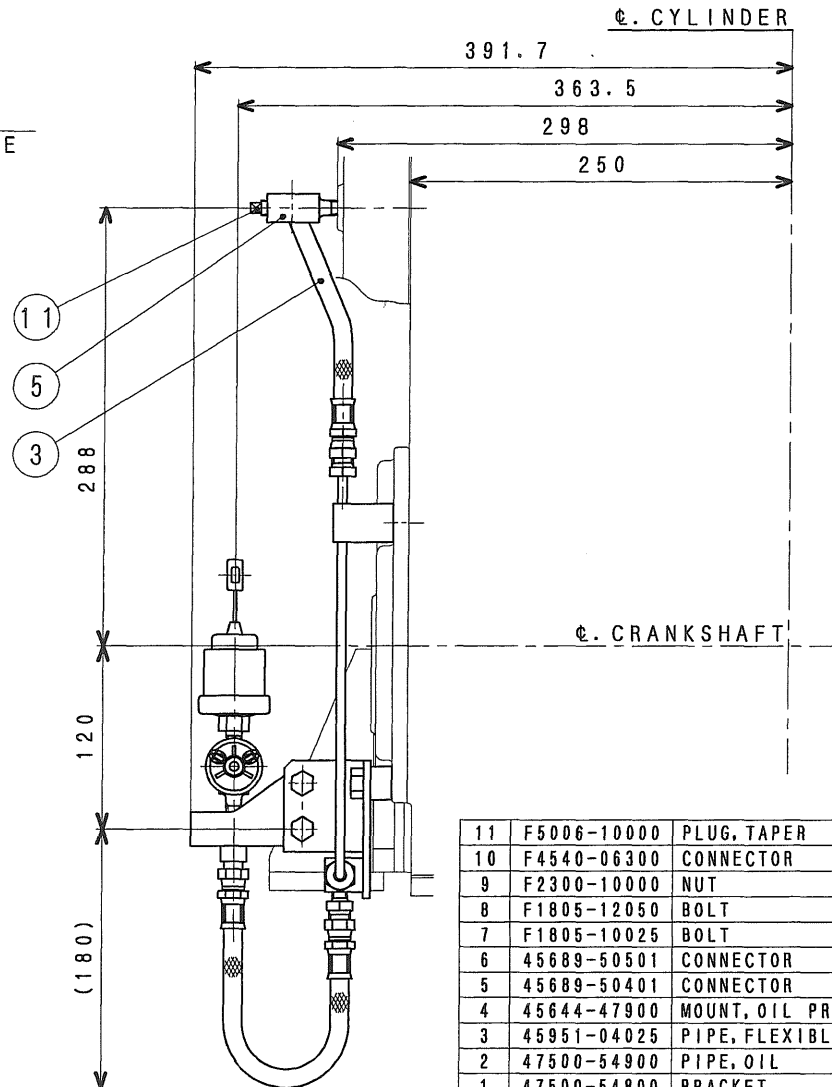
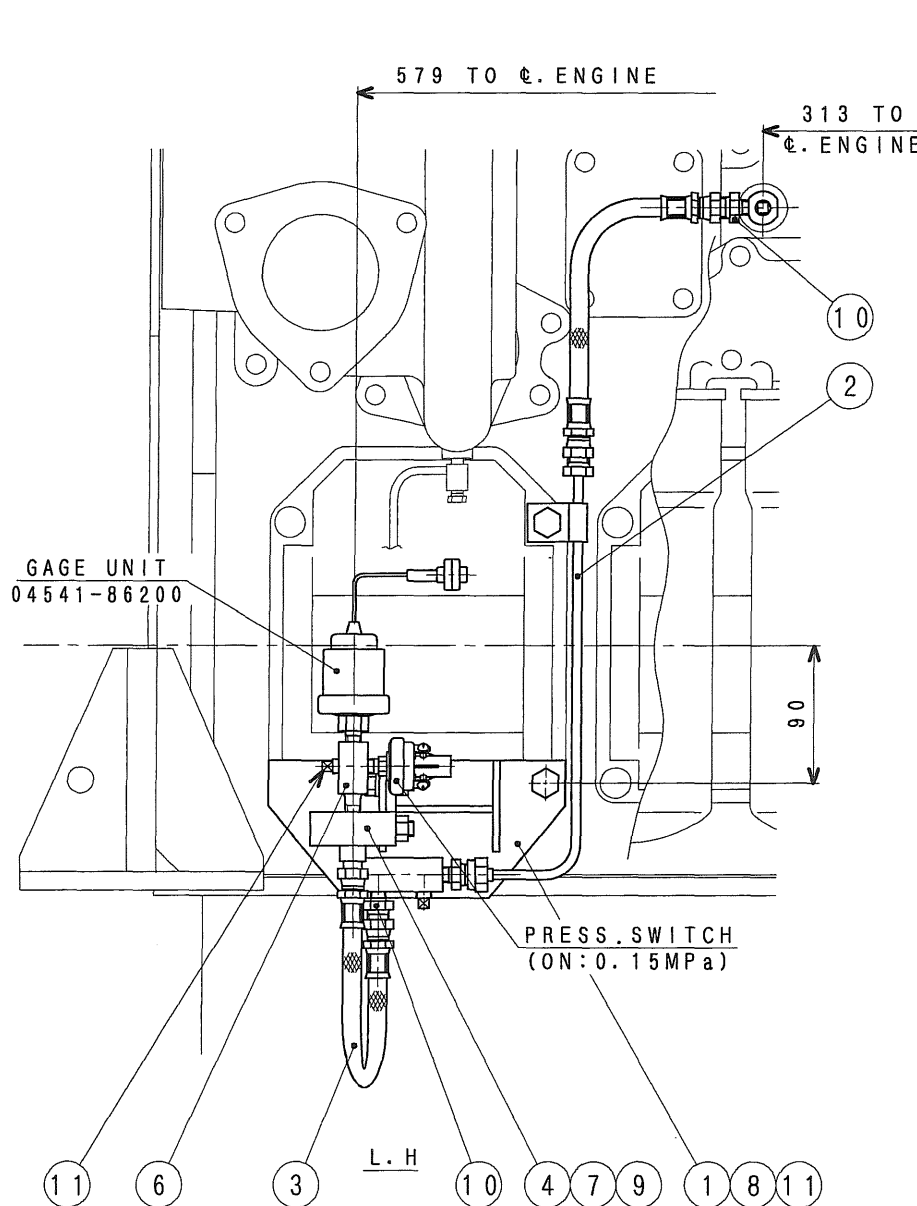


**MHI CONFIDENTIAL**

|            |           |             |             |  |
|------------|-----------|-------------|-------------|--|
| 4          | 4590-C246 | '06. 7. 28  | 齊藤          | 3rd ANGLE PROJECTION<br>尺 寸 尺 寸<br>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        | EO-NO     | DATE        | CHK         |  |
| 認可<br>APPD | 換圖<br>CHK | 製圖<br>DRN   | 谷 戸 齊 藤     |  |
|            |           |             | 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  
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。



|     |             |                   |       |
|-----|-------------|-------------------|-------|
| 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     |
| No. | PARTS NO.   | PARTS NAME        | Q' TY |

MHI CONFIDENTIAL

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

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

S6R, S6R2  
METER & SENSOR

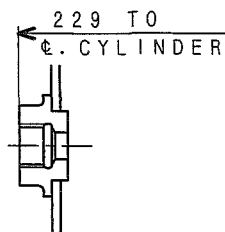
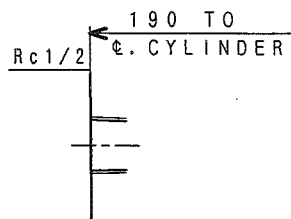
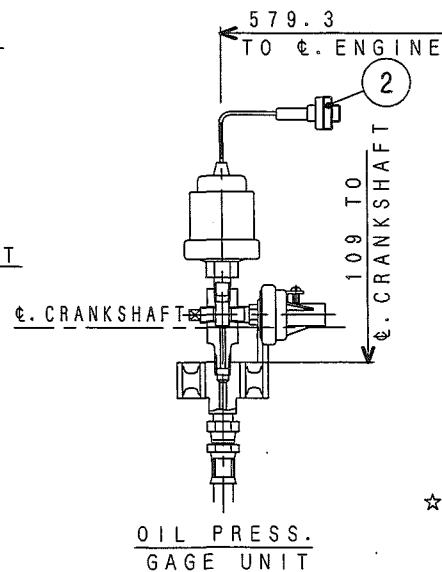
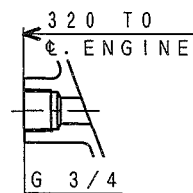
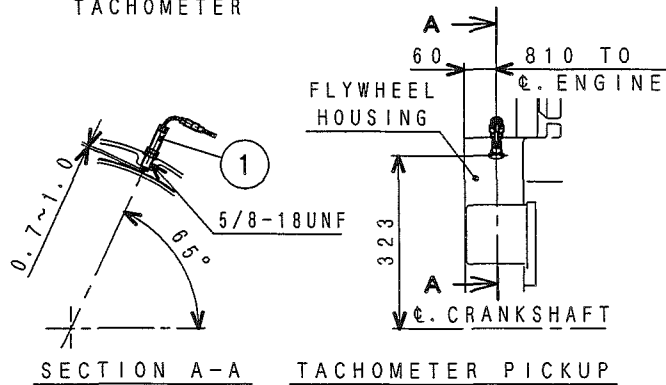
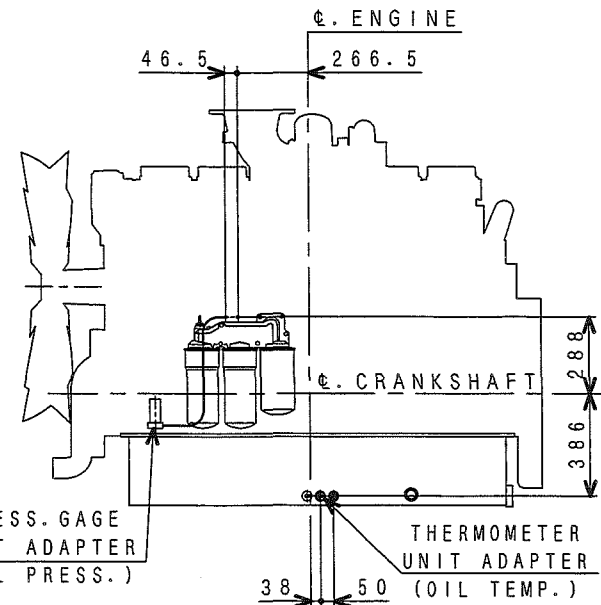
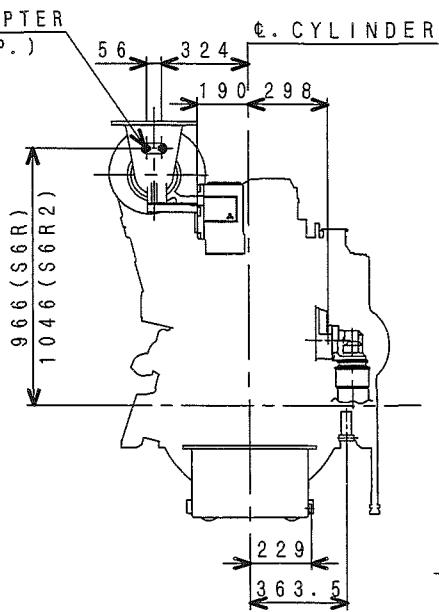
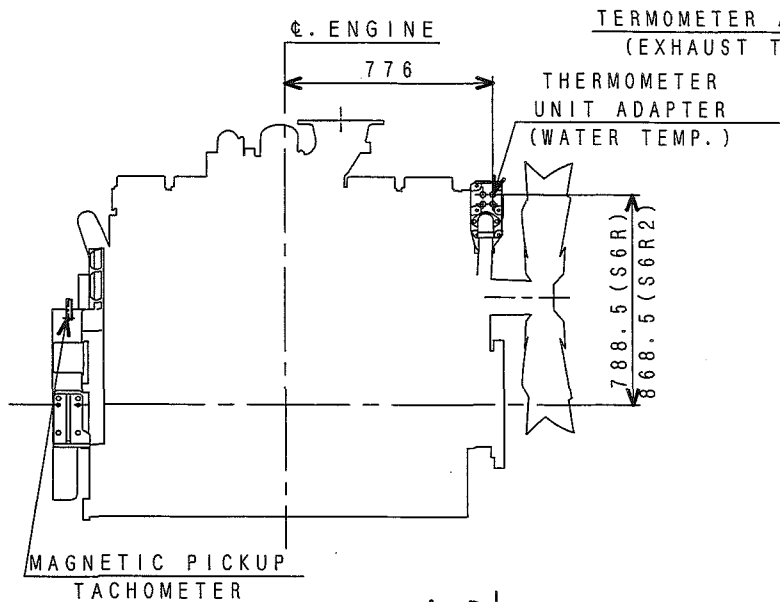
三菱重工業株式会社 汎用機・特車事業本部  
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 37596-90142  
DRAWING No. 37596-90142

旧引  
汎特  
2011  
12.23

M/C

3 新図 サイズ  
4 旧引図 A 3  
1 組立図  
2 新鋭標準品  
5 切別品  
3 板金溶接品  
6 その他(購入品)  
4 組立品



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    |

M/C

|         |       |      |     |                                  |
|---------|-------|------|-----|----------------------------------|
| CHG     | EO-NO | DATE | CHK | 3rd ANGLE PROJECTION<br>尺度 SCALE |
| 認可 APPD | 橋     | 検図   | 塚中  | 型図 谷                             |
|         |       |      | 本村  | DRN 戸                            |
|         |       |      |     | 2002.12.11                       |

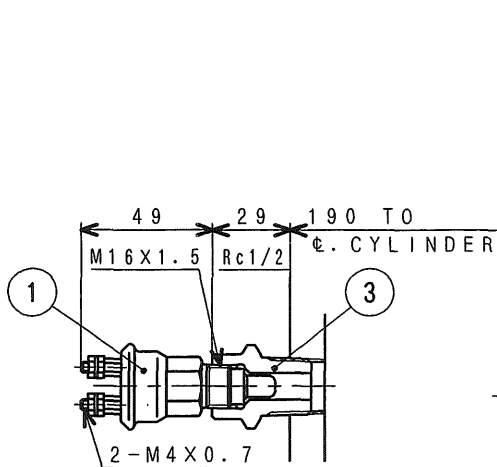
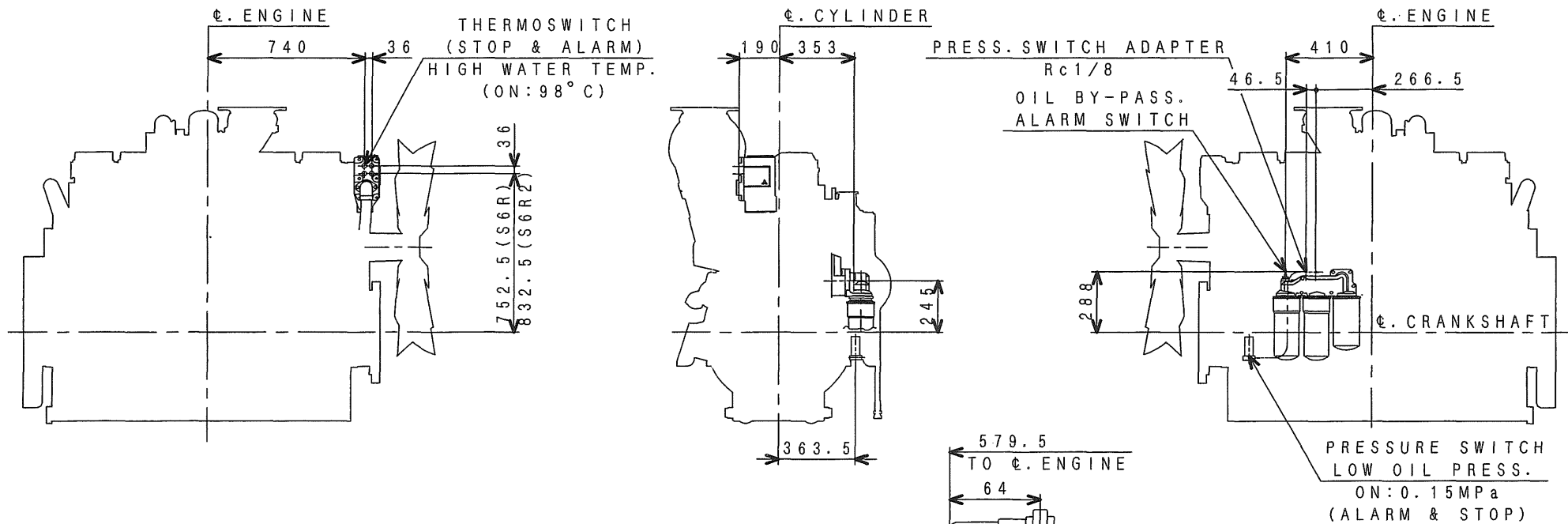
S6R, S6R2  
METER & SENSOR

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.

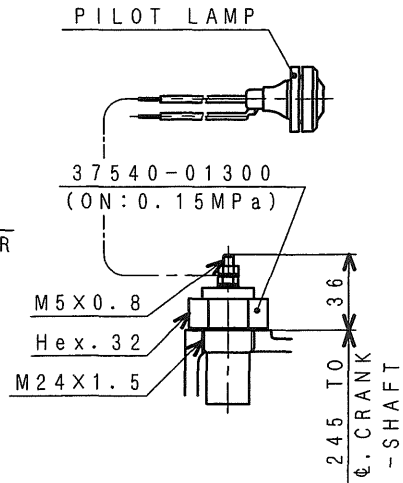
図面番号 37596-90151  
DRAWING No.

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。

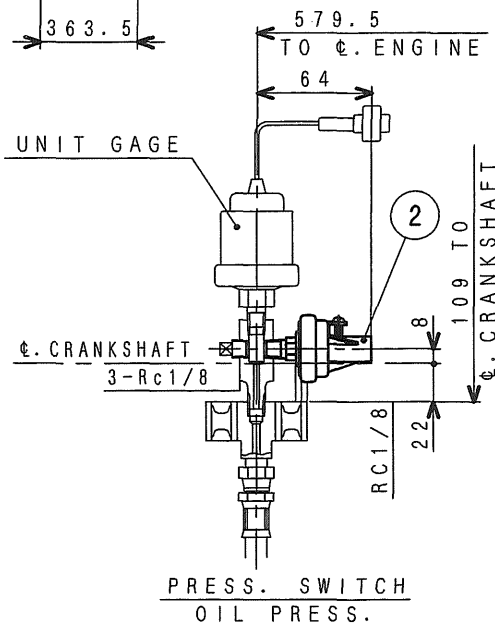
①新図 ②サイズ ③組立図 ④ 1 隣接部品 ⑤ 検査済部品 ⑥ 組立品  
④旧引図 ④ A 3 ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿



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    |

**MHI CONFIDENTIAL**

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

|            |           |            |            |
|------------|-----------|------------|------------|
| 2          | 4590-G590 | '12.11.29  | 谷戸         |
| 1          | 4591-0412 | '03.11.18  | 福田         |
| CHG        | EO-NO     | DATE       | CHK        |
| 認可<br>APPD | 検図<br>CHK | 松 福<br>下 田 | 製図<br>DRH  |
|            |           |            | 谷 斎<br>戸 藤 |
|            |           |            | 2002.12.11 |

S6R, S6R2  
ALARM SWITCH

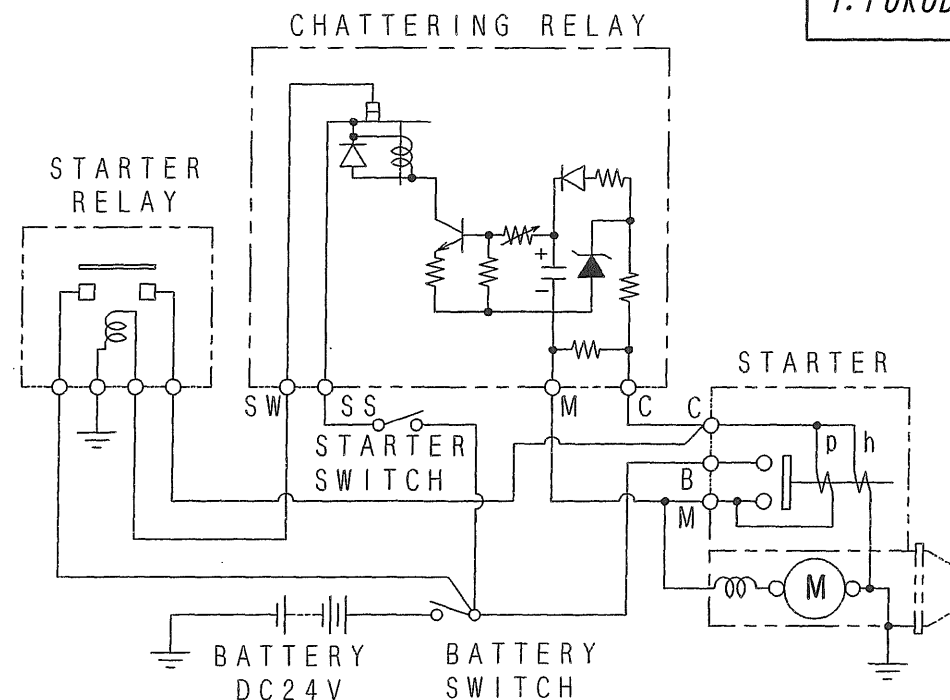
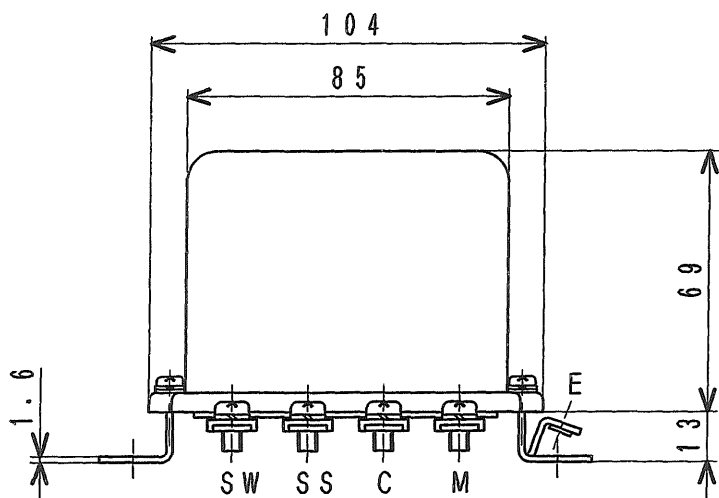
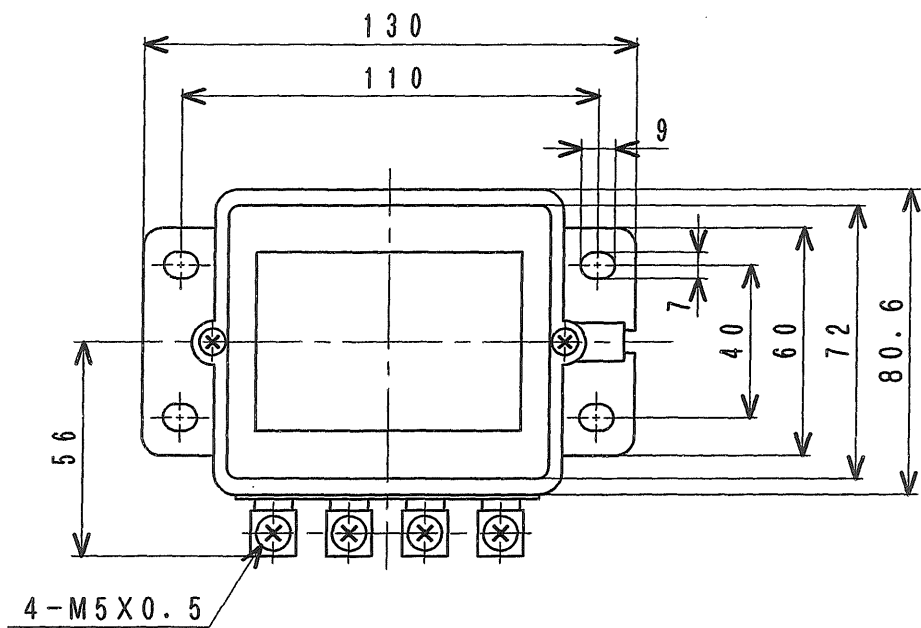
三菱重工業株式会社 汎用機・特車事業本部  
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号  
DRAWING No. 37596-90240

3 新図 9/12  
④ 旧引図 A 3 ① 相立図 1 5 切替品 3 板金溶接品 4 相立品 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

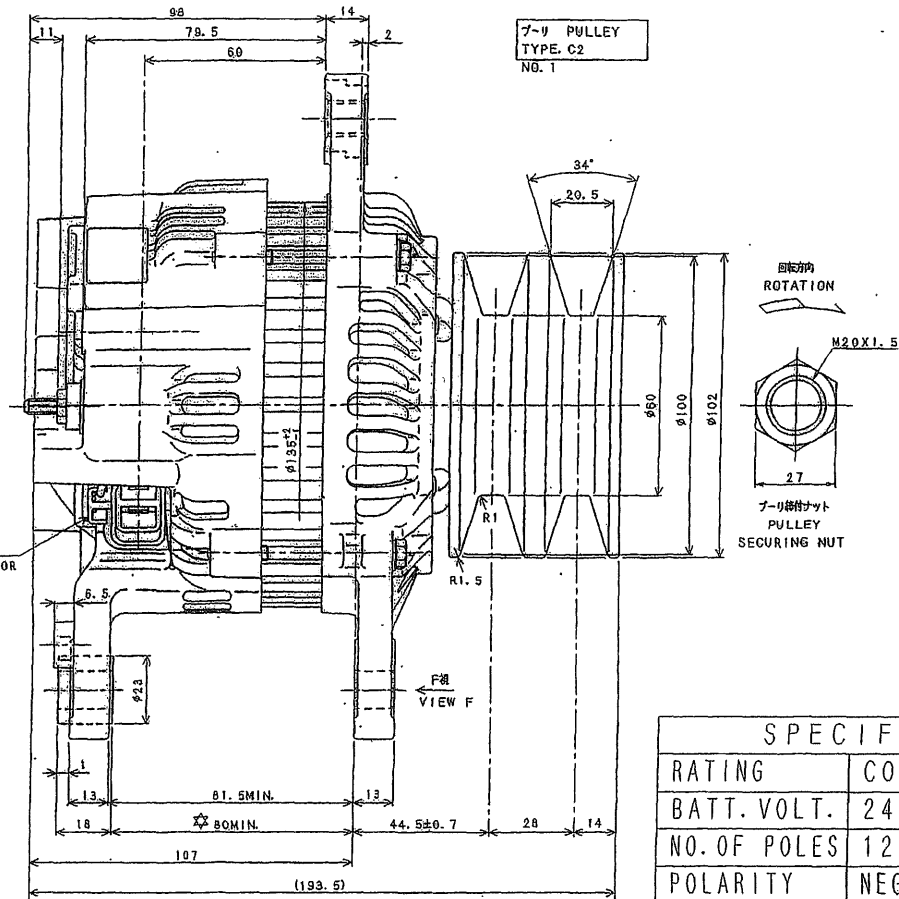
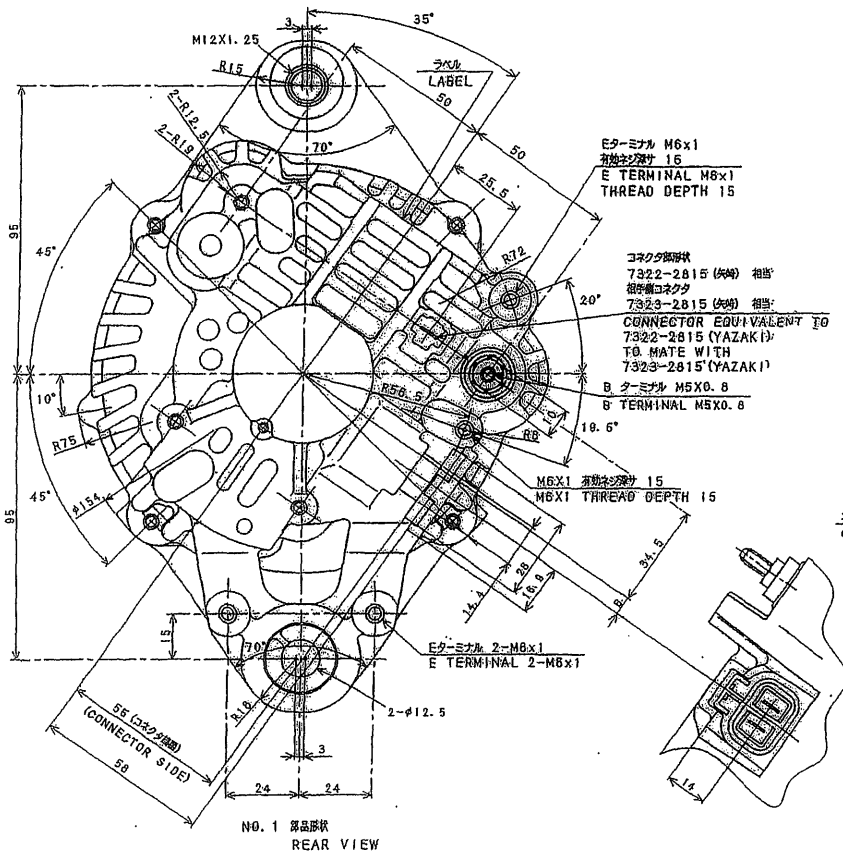
|      |          |
|------|----------|
| 2    | '08.6.5  |
| 1    | '93.2.11 |
| REV. | DATE     |

CHATTERING RELAY  
PART NO. 04322-50001

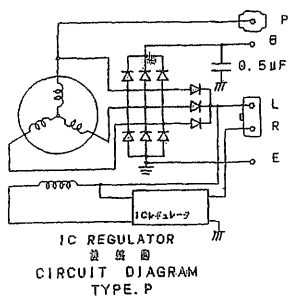
DWG. NO. S10-0052  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY

K. YATO



| 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) |



MHI CONFIDENTIAL

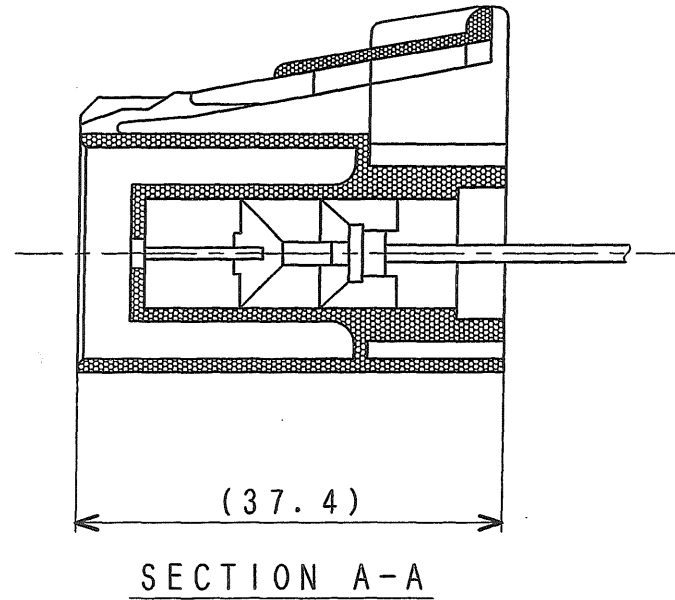
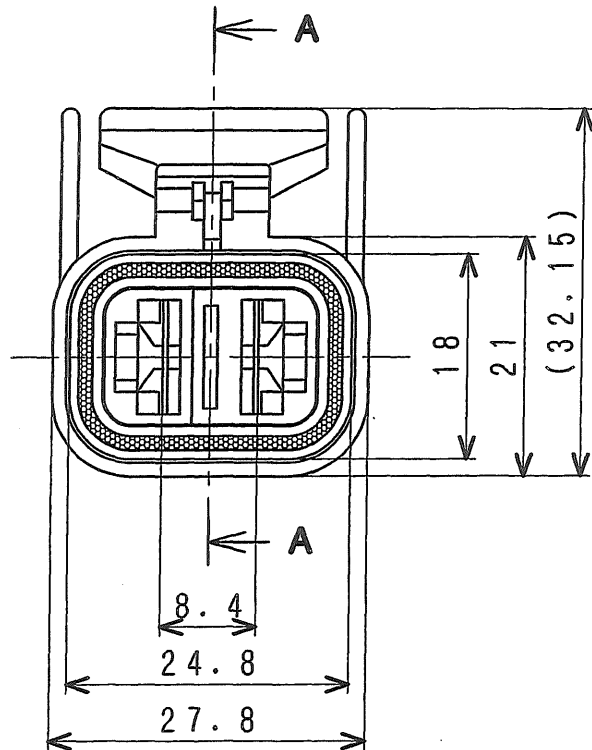
|      |      |
|------|------|
| REV. | DATE |
|      |      |

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

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

CHECKED BY

Y. FUKUDA



本部品は、矢崎品番7323-6228-30相当品である。

MHI CONFIDENTIAL

|      |      |
|------|------|
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| △    |      |
| REV. | DATE |

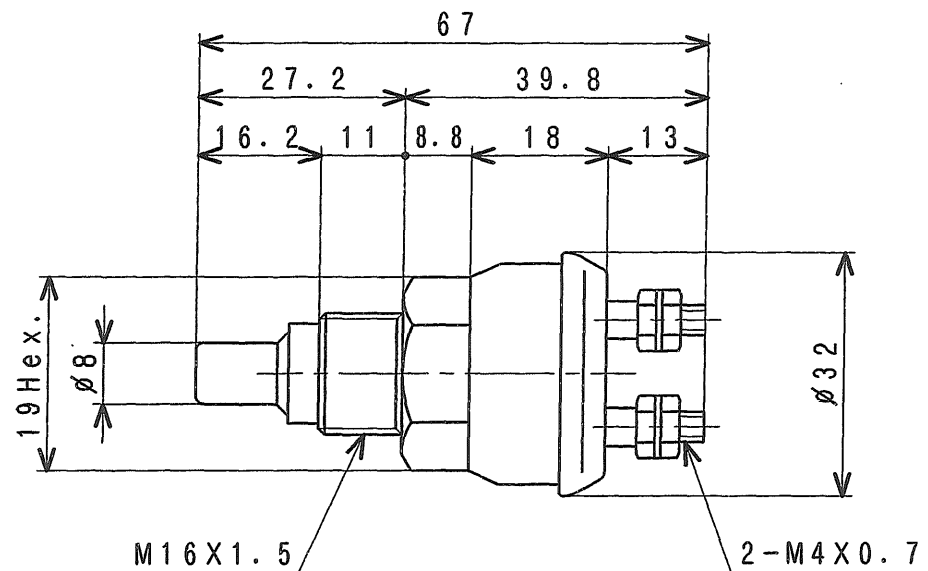
CONNECTOR  
PART NO. 32B90-00300

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<br>DC100V 0.05A~0.4A<br>AC100V 0.05A~1A | 60 g   |
| 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 <sub>-2</sub> | 94±2  |  |        |

MHI CONFIDENTIAL

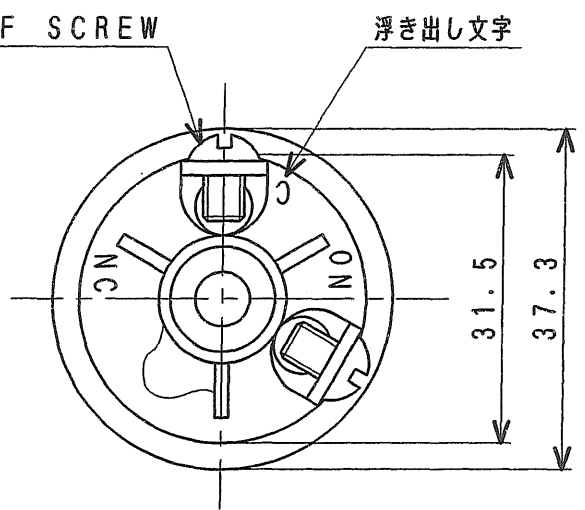
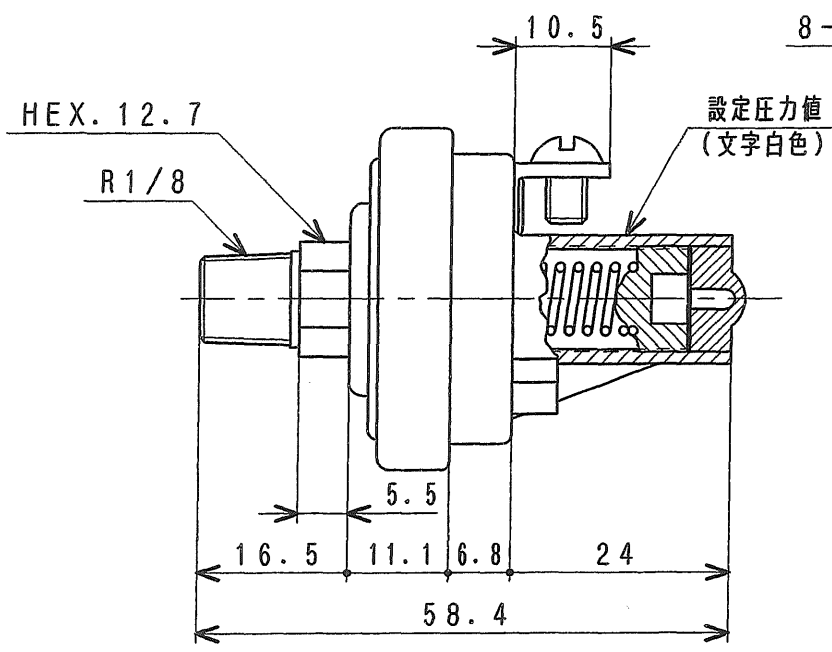
|      |          |
|------|----------|
| 6    | '00.4.26 |
| 8    | '08.6.5  |
| 7    | '06.3.17 |
| REV. | DATE     |

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 :  $\overline{NO}$   $\overline{NC}$
- 3. 使用温度範囲 : -40.0°C~+120.0°C
- 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 |           |

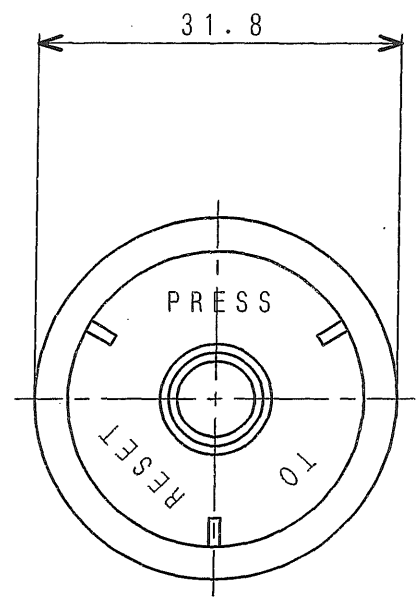
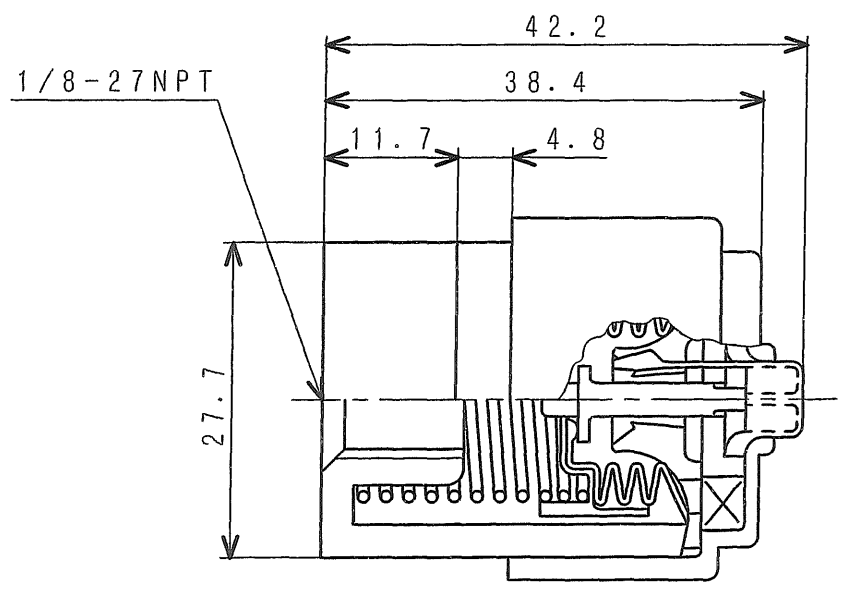
MHI CONFIDENTIAL

|      |          |
|------|----------|
| 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 <sub>2</sub> O) |
|-------------|----------------------------------|
| 47220-30701 | 762±58                           |
| 47220-34301 | 508±48                           |
| 47220-34401 | 635±58                           |

MHI CONFIDENTIAL

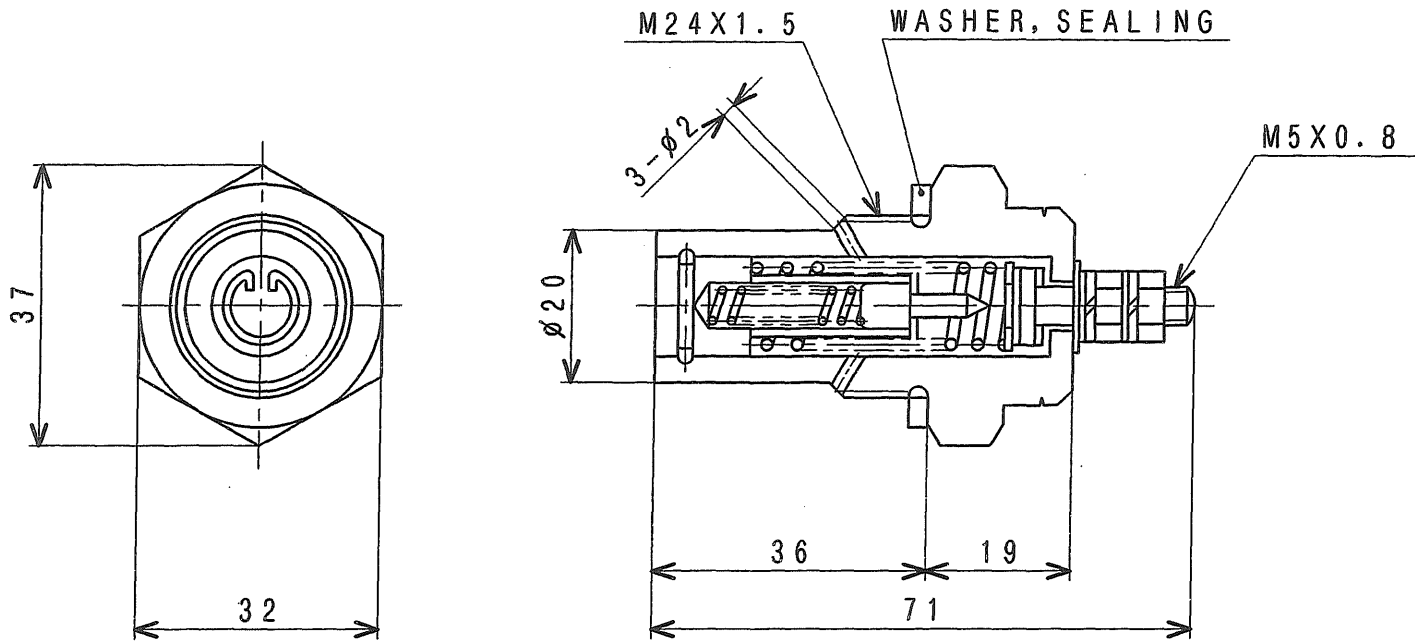
|      |          |
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| △    |          |
| ↑    | '93 2/18 |
| REV. | DATE     |

INDICATOR

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

CHECKED BY

中村



SET PRESS. 0.15MPa

MHI CONFIDENTIAL

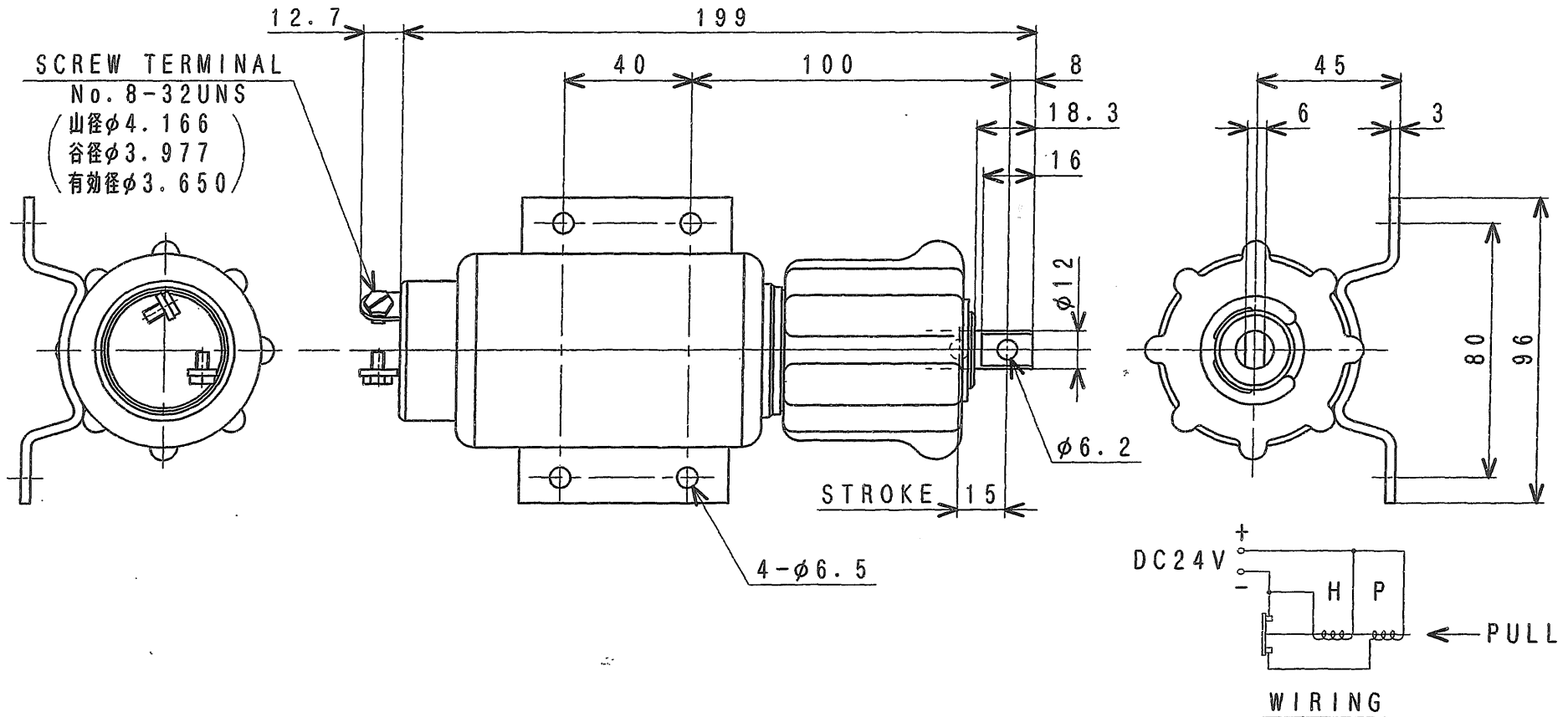
|      |         |
|------|---------|
| △    |         |
| △    |         |
| 1    | '08.6.6 |
| REV. | DATE    |

ALARM, OIL FILTER  
PART NO. 37540-01300

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

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             |

|      |      |
|------|------|
| △    |      |
| △    |      |
| △    |      |
| REV. | DATE |

SOLENOID

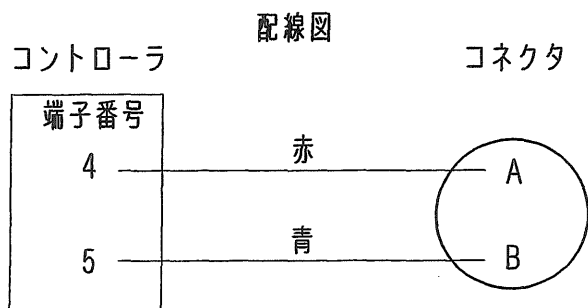
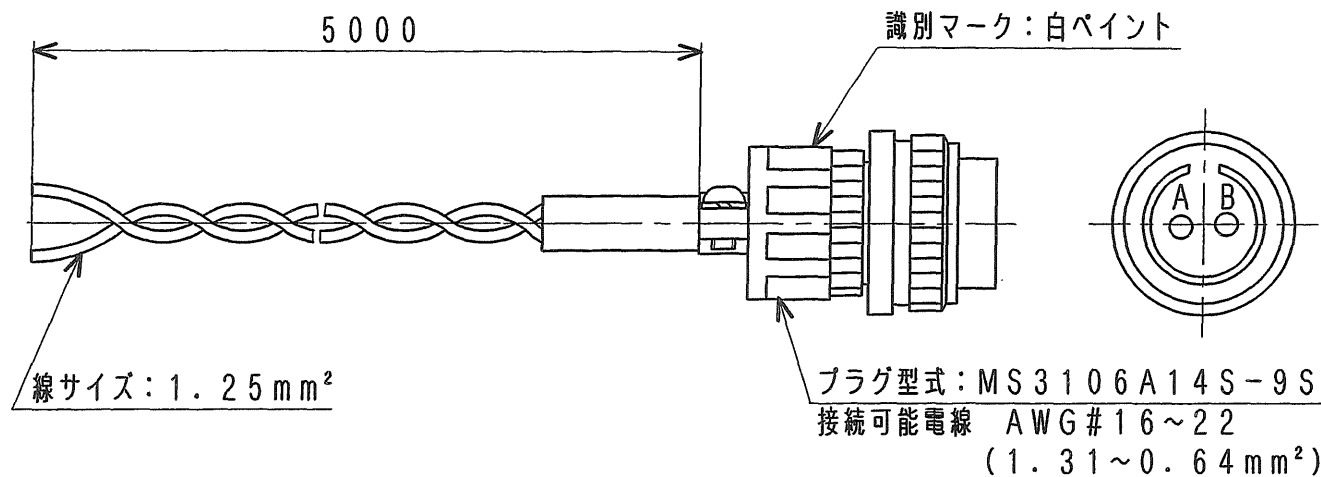
DWG. NO. S13-0282

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

MHI CONFIDENTIAL

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

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| △    |      |
| REV. | DATE |

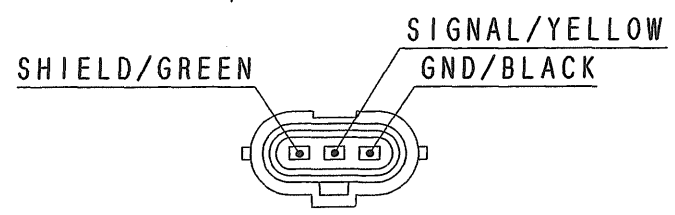
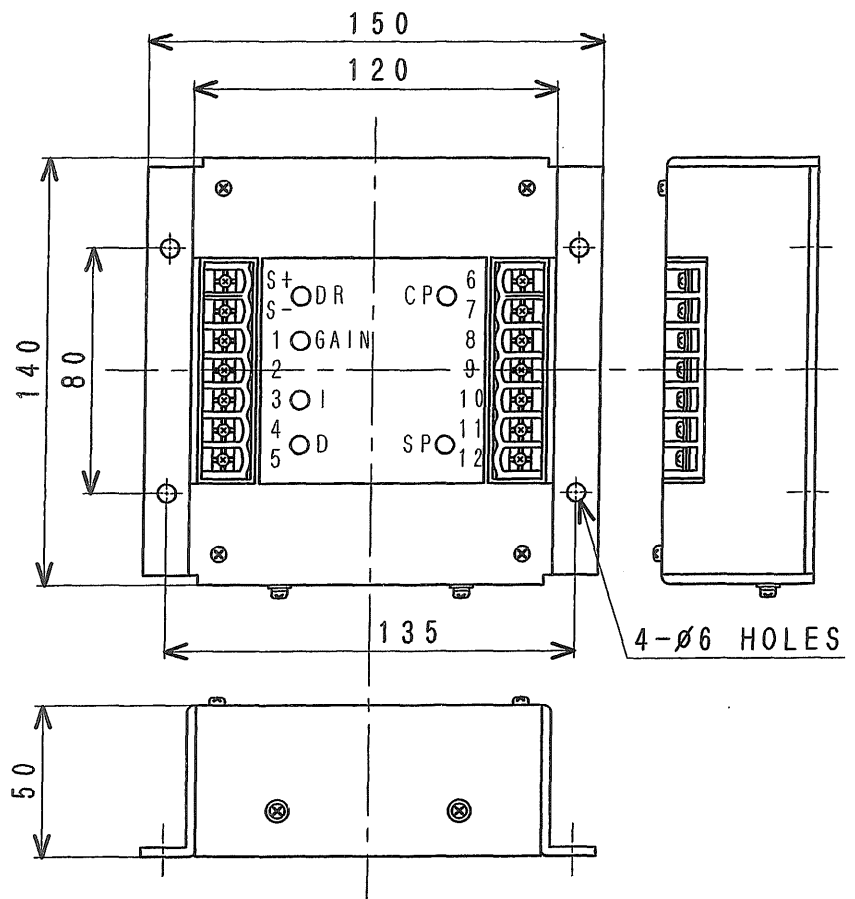
CONNECTOR  
PART NO. 04410-32902

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

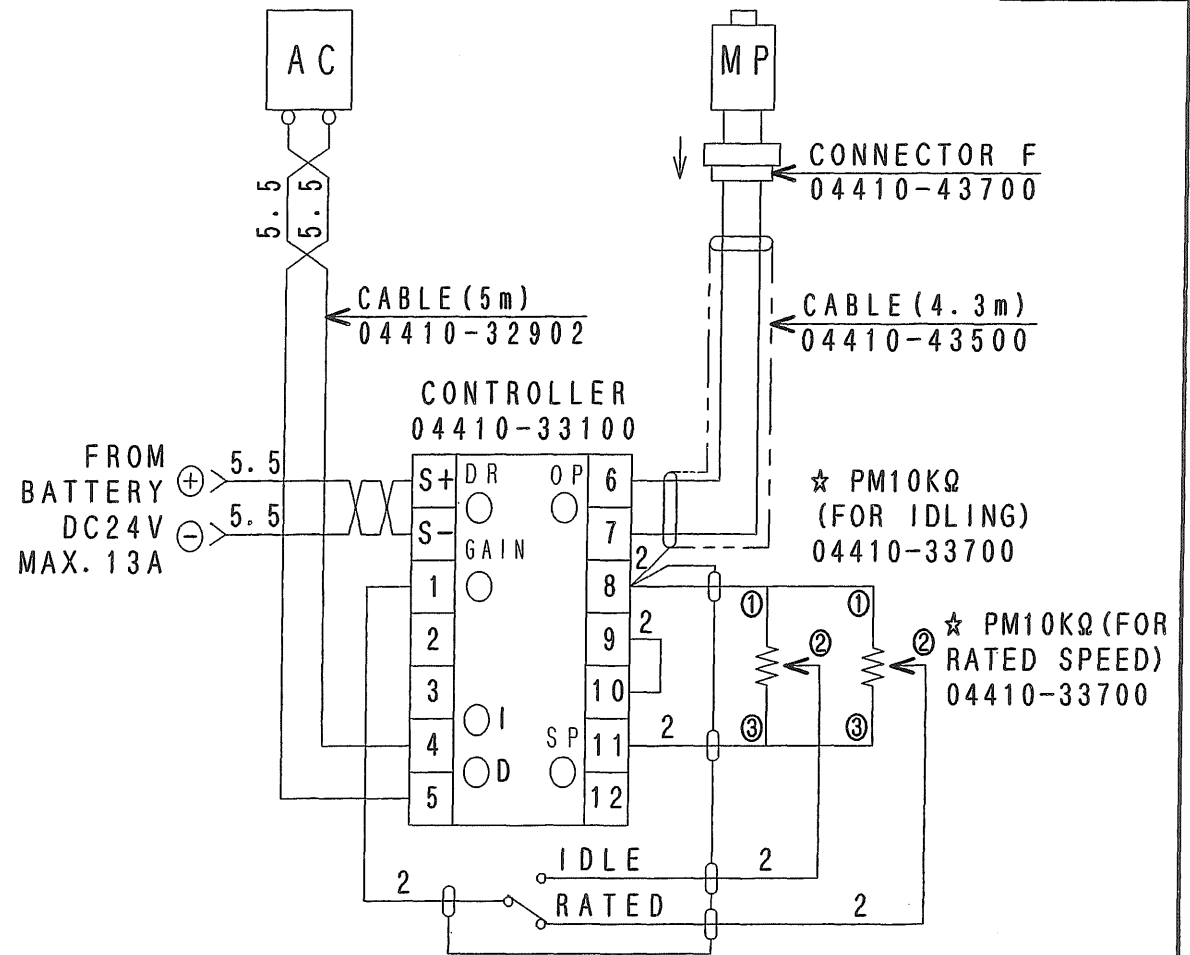
CHECKED BY  
Y. FUKUDA

ACTUATOR  
04410-32011  
04410-37081 (S12H)

MAGNETIC PICKUP  
04410-43410



CONNECTOR F  
04410-43700



WIRING

MHI CONFIDENTIAL

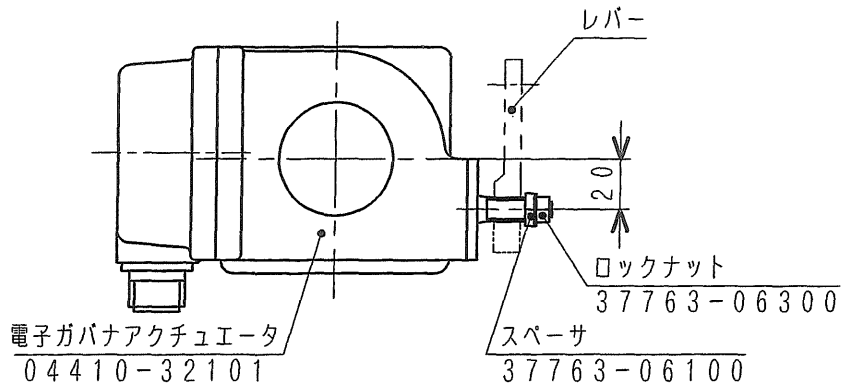
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| 2    | '11.4.20 |
| 1    | '01.6.29 |
| REV. | DATE     |

CONTROLLER SPEED  
PART NO. 04410-33100

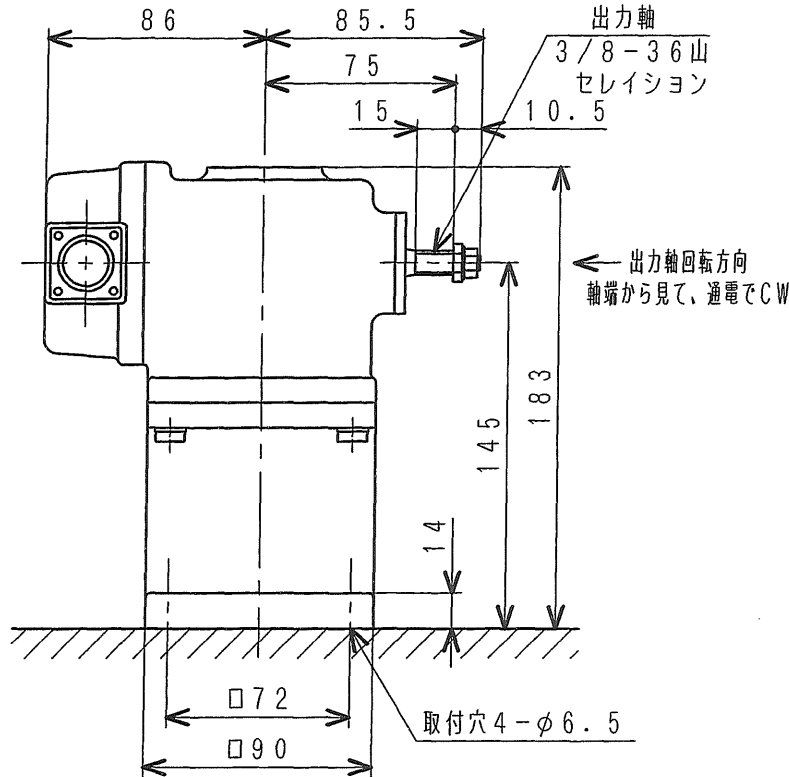
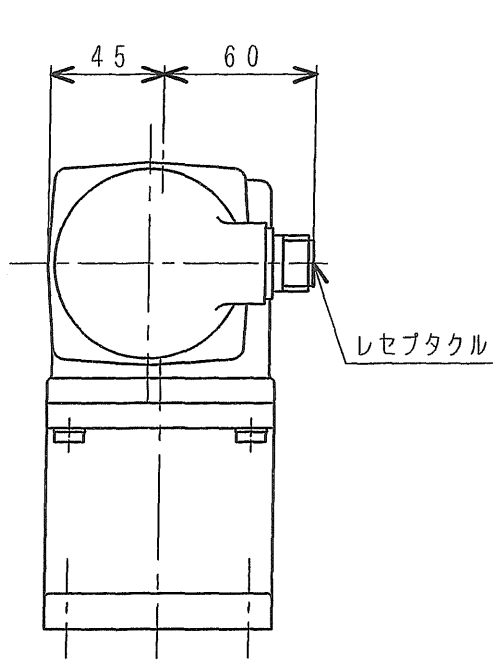
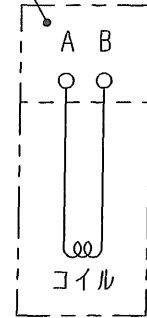
DWG. NO. S13-1042  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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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 8 A にて
- 電源 : DC 2.4 V パルス
- 起動最低電圧 : DC 1.6 V 50% ed 以下
- 電流 : MAX 1.3 A
- 常用電流 : 軽負荷制御時 0.5 A ~ 2 A
- 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。

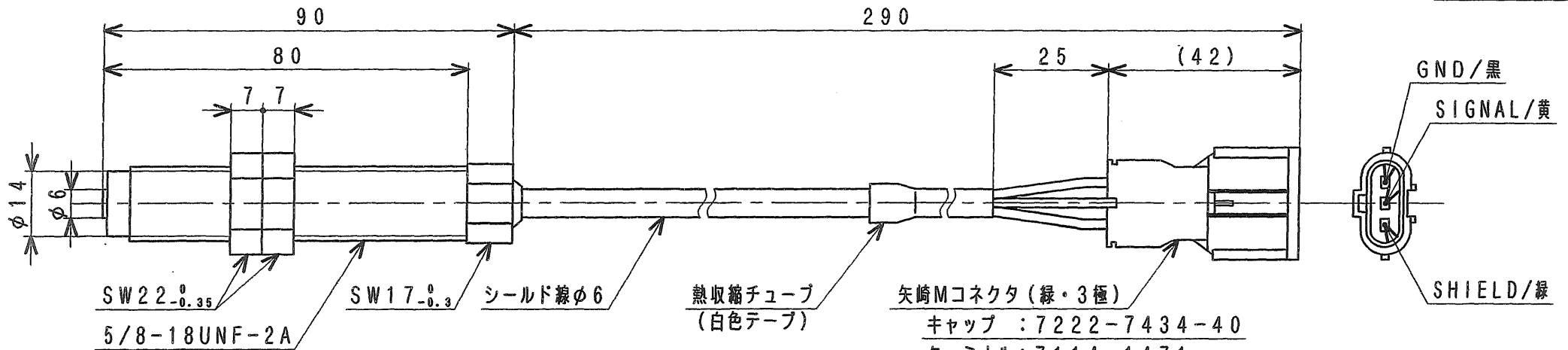
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| REV. | DATE |
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ACTUATOR/SG4017BR  
PART NO. 04410-32011

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

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Y. FUKUDA



仕様

1. 電機的特性

出力電圧 : 図1. 測定条件にて4.0V<sub>p-p</sub>以上 (at 700Hz)  
7.0V<sub>p-p</sub>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。

- 矢崎Mコネクタ (緑・3極)
- キャップ : 7222-7434-40
- ターミナル : 7114-1471
- ゴム柱 : 7157-7812
- リヤホルダ : 7157-7814-80

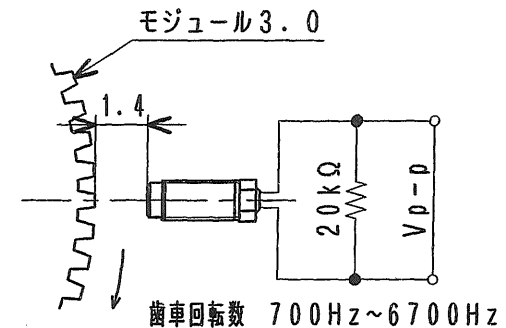


図1. 出力条件

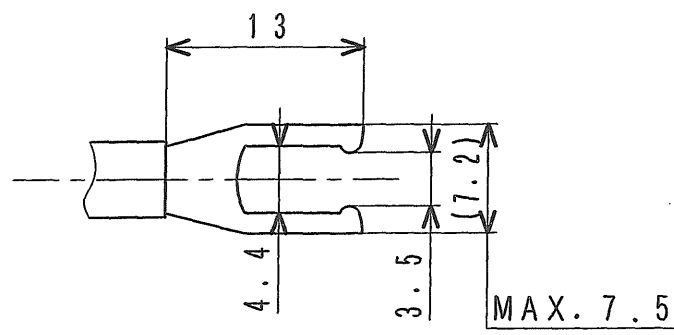
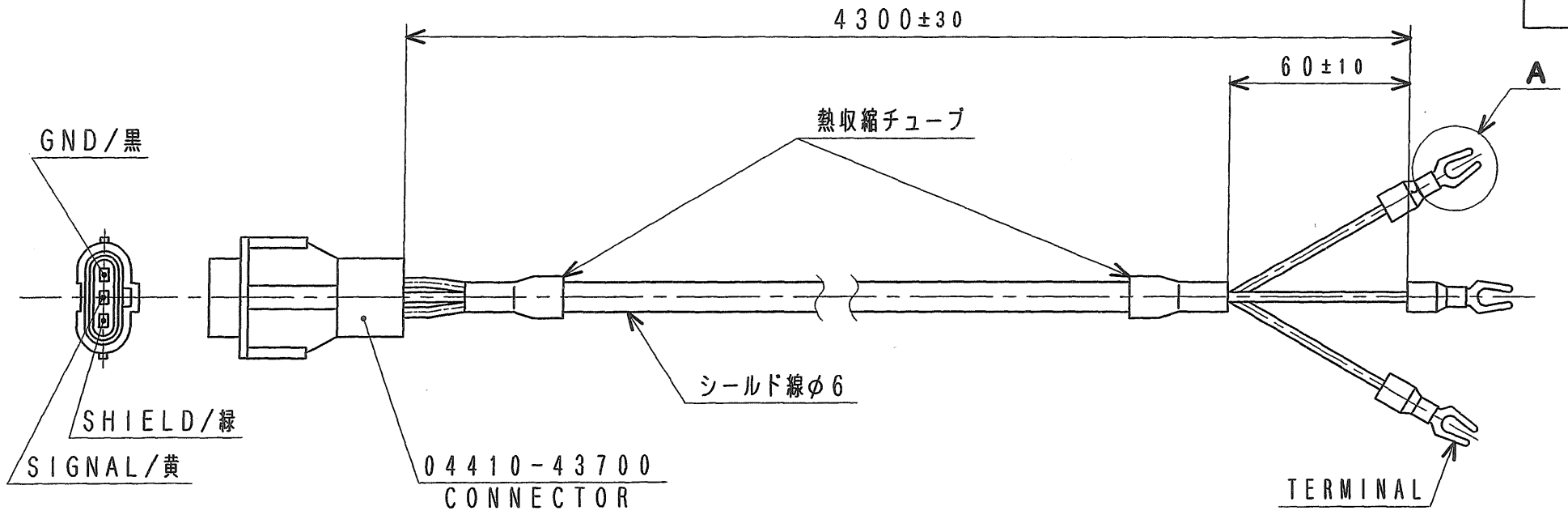
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PICKUP, MAGNETIC  
PART NO. 04410-43410

DWG. NO. S13-2011  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY



DETAIL A

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

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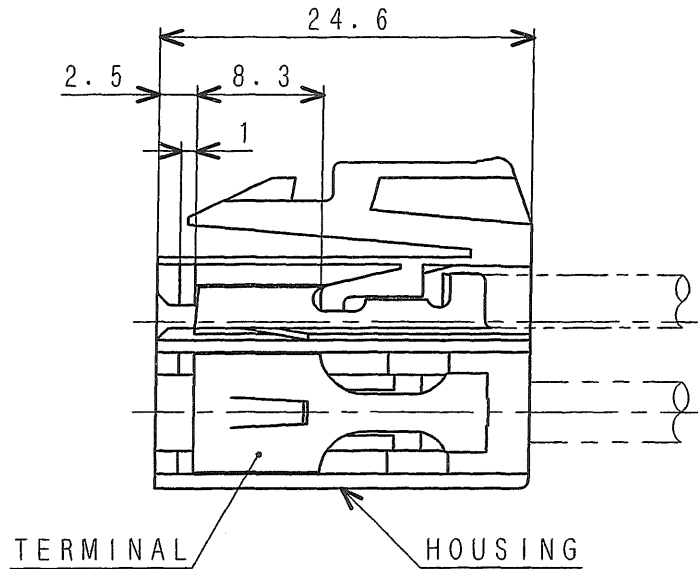
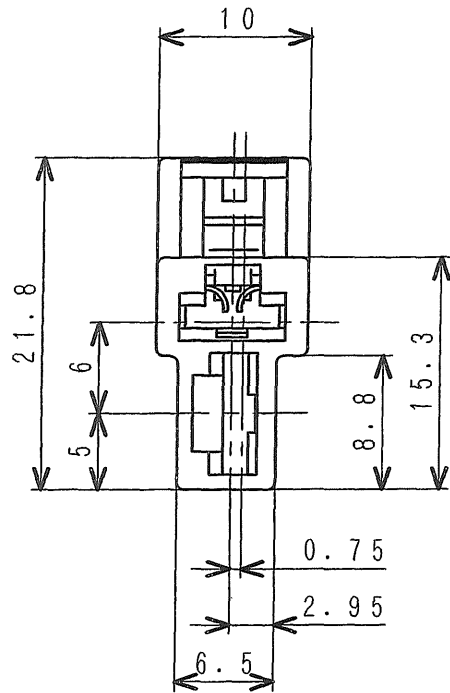
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CABLE, PICKUP  
PART NO. 04410-43500

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

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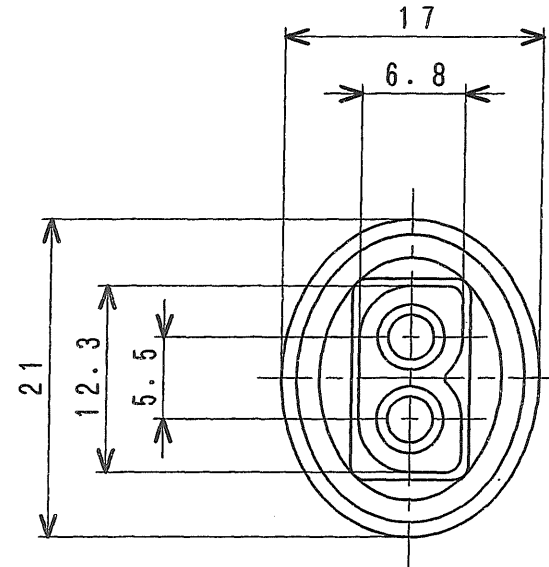
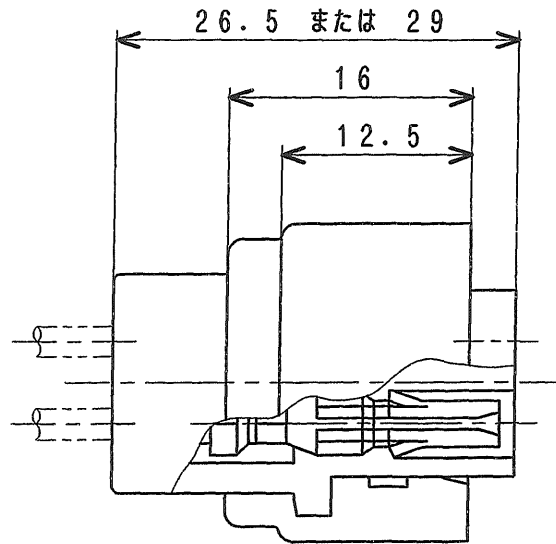
|      |         |
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| 1    | 93 9/10 |
| REV. | DATE    |

CONNECTOR, 2 POLES  
PART NO. F8665-02100

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

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Y. FUKUDA



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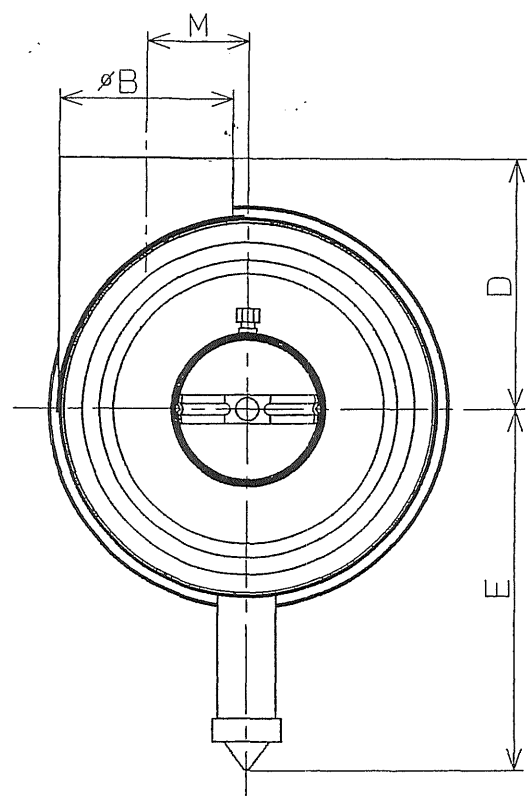
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| 2    | '04.3.12 |
| 1    | '93.8.4  |

CONNECTOR  
PART NO. MH052231

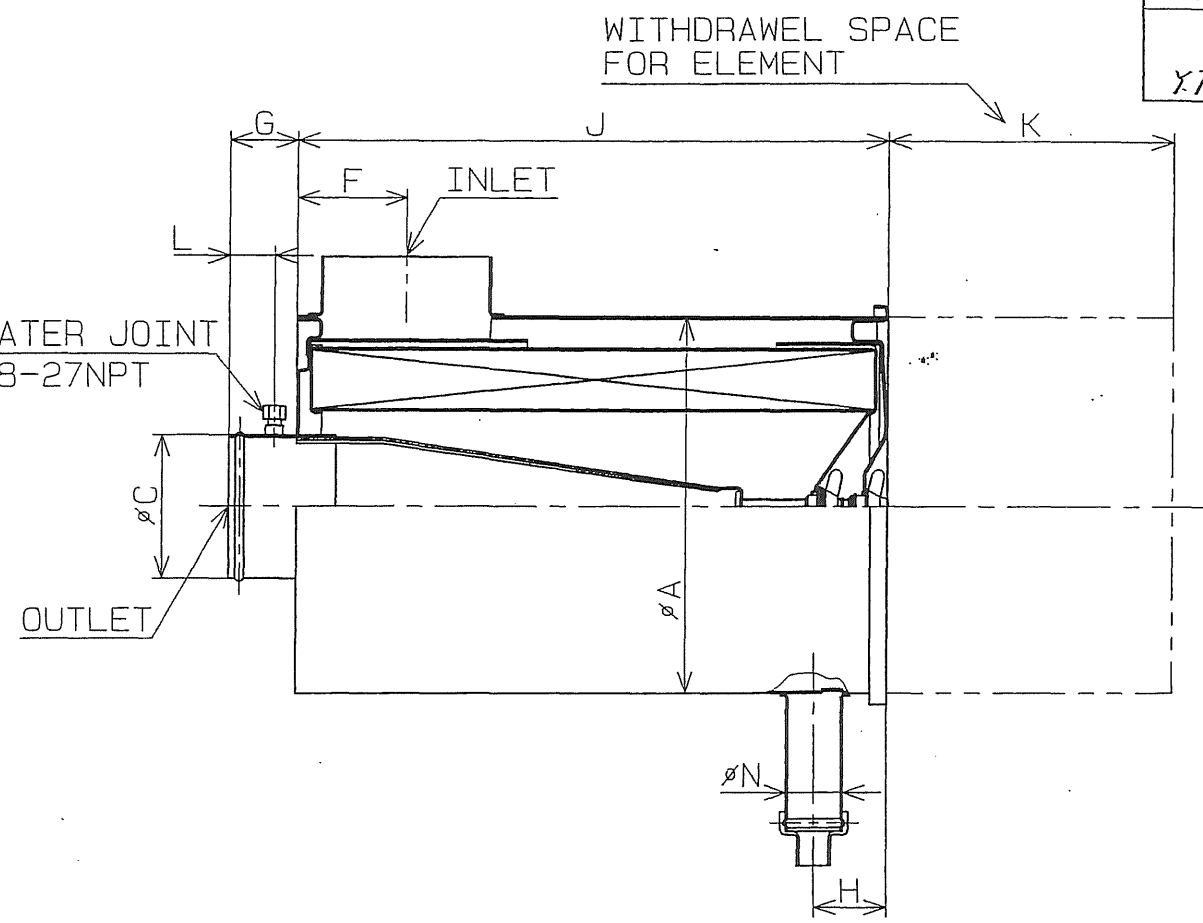
DWG. NO. S14-0330

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

CHECKED BY  
Y. Fukuda



INDICATOR JOINT  
1/8-27NPT



| 47220-39400 | FTG13S          | 330.2 | 152.4 | 127 | 215.9 | 273.2 | 97.3 | 60.5 | 50   | 400.8 | 392 | 40.6 | 89.9 | 50.8 | 14             | 47220-39600                                |
|-------------|-----------------|-------|-------|-----|-------|-------|------|------|------|-------|-----|------|------|------|----------------|--|
| 47220-39203 | FTG13L          | 330.2 | 152.4 | 127 | 215.9 | 273.2 | 97.3 | 60.5 | 50   | 527.8 | 519 | 40.6 | 89.9 | 50.8 | 17.5           | 47220-39802                                |
| 47220-39103 | FTG13L          | 330.2 | 152.4 | 127 | 215.9 | 313.2 | 97.3 | 60.5 | 63.5 | 527.8 | 519 | 40.6 | 89.9 | 50.8 | 17.5           | 47220-39901 (INNER)<br>47220-39802 (OUTER) |
| PARTS NO.   | TYPE<br>MEASURE | A     | B     | C   | D     | E     | F    | G    | H    | J     | K   | L    | M    | N    | WEIGHT<br>(kg) | ELEMENT ASSY.<br>PARTS NO.                 |

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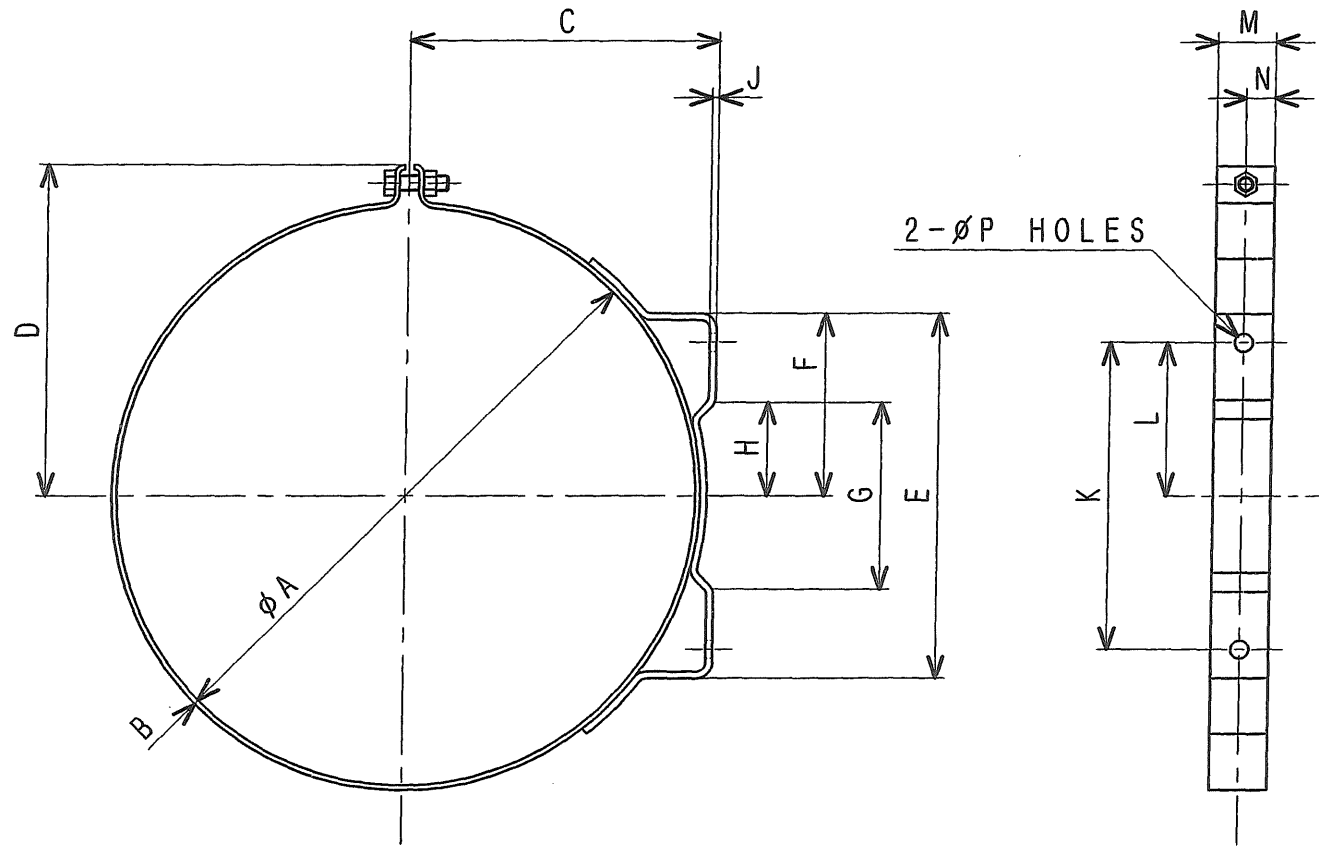
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| 1    | 94   | 3/16 |
| REV. | DATE |      |

AIR CLEANER ASSY.  
DONALDSON FTG13

DWG. NO. S35-0511  
MITSUBISHI HEAVY INDUSTRIES, LTD.  
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY

Y. FUKUDA



|             |                      |       |     |       |       |       |       |      |      |     |       |       |      |      |                |         |
|-------------|----------------------|-------|-----|-------|-------|-------|-------|------|------|-----|-------|-------|------|------|----------------|---------|
| 47220-30300 | 16" ( $\phi 406.4$ ) | 406.4 | 3.0 | 231.6 | 230   | 292   | 146   | 124  | 62   | 5.0 | 254   | 127   | 38   | 19   | 2- $\phi 12$   |         |
| 47220-38300 | 15" ( $\phi 381.0$ ) | 381   | 3.2 | 203.2 | 218   | 241.4 | 120.7 | 127  | 63.5 | 5.0 | 203.2 | 101.6 | 38   | 19   | 2- $\phi 12$   | FTG15   |
| 47220-21300 | 14" ( $\phi 355.6$ ) | 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- $\phi 12$   |         |
| 47220-39300 | 13" ( $\phi 330.2$ ) | 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- $\phi 10.3$ | FTG13   |
| PARTS NO.   | TYPE<br>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     |

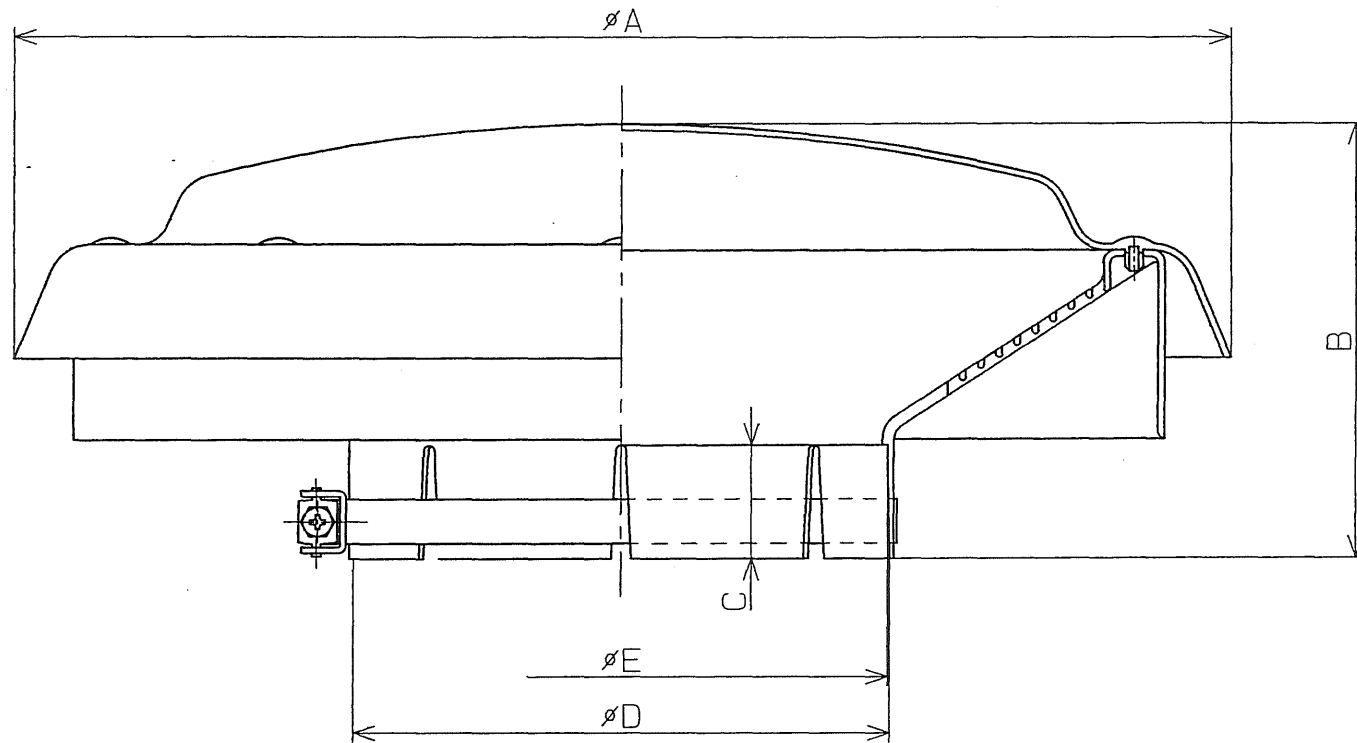
BAND

DWG. NO. S35-0600

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

CHECKED BY

*Y. Fukuda*



|             |                     |       |       |      |       |       |
|-------------|---------------------|-------|-------|------|-------|-------|
| 47220-44900 | 7" ( $\phi 177.8$ ) | 405.4 | 144.7 | 38.1 | 179.0 | 177.8 |
| 47220-35200 | 6" ( $\phi 152.4$ ) | 330.2 | 135   | 38.1 | 153.6 | 152.4 |
| 47220-34800 | 6" ( $\phi 152.4$ ) | 405.4 | 144.7 | 38.1 | 153.6 | 152.4 |
| PARTS NO.   | TYPE<br>MEASURE     | A     | B     | C    | D     | E     |

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| △ | 94 3/16   |
| 1 | REV. DATE |

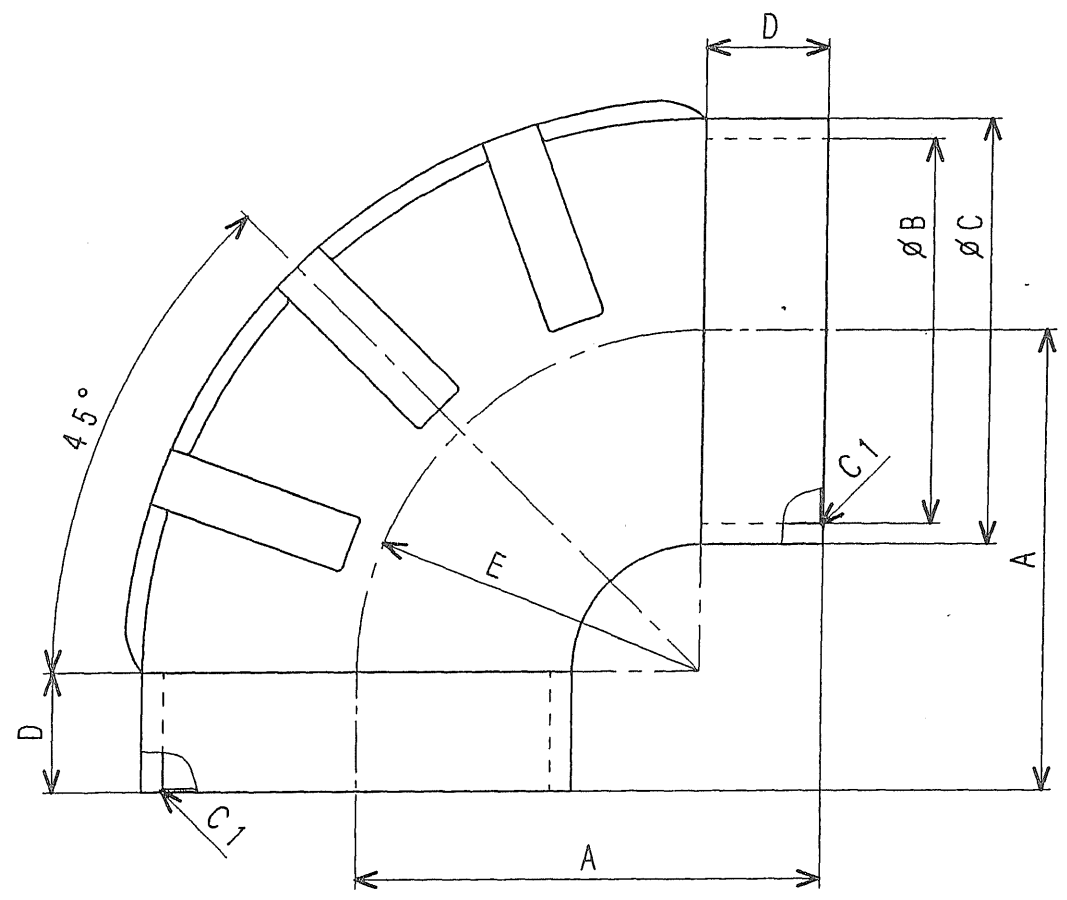
CAP ASSY.

DWG. NO. S35-0650

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

CHECKED BY

*J. Fuwada*



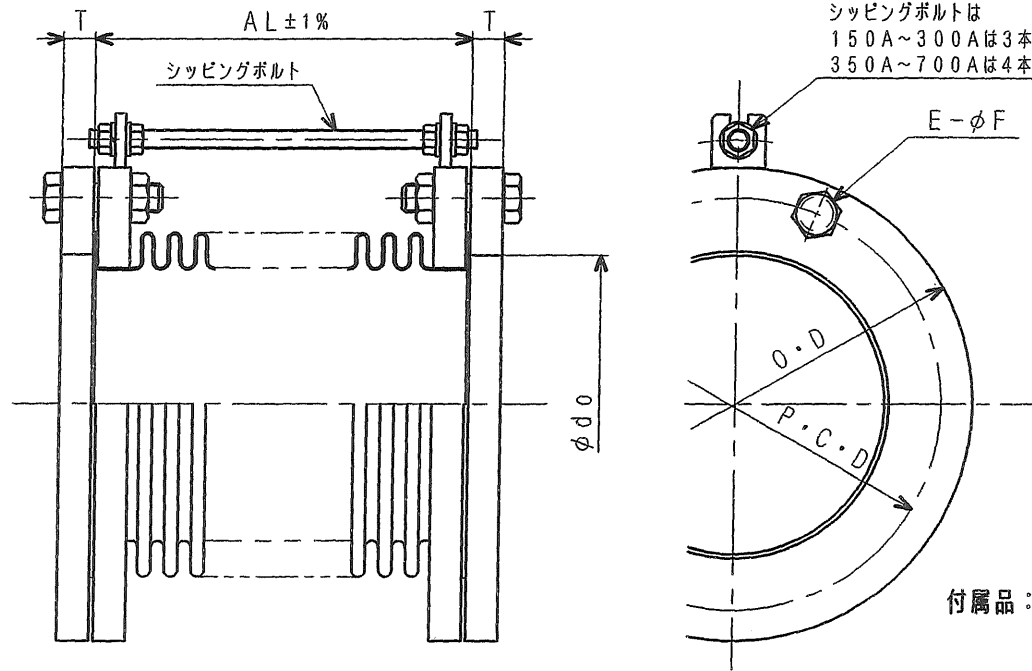
|             |                     |       |       |       |      |       |
|-------------|---------------------|-------|-------|-------|------|-------|
| 47220-47600 | $\phi 160$          | 145   | 160   | 176   | 40   | 100   |
| 47220-32600 | 7' ( $\phi 177.8$ ) | 184.2 | 177.8 | 194.6 | 50.8 | 133.4 |
| 47220-30400 | 6' ( $\phi 152.4$ ) | 177.8 | 152.4 | 166.4 | 50.8 | 127   |
| 47220-12100 | 5' ( $\phi 127.0$ ) | 152.4 | 127   | 141   | 40   | 112.4 |
| PARTS NO.   | TYPE<br>MEASURE     | A     | B     | C     | D    | E     |

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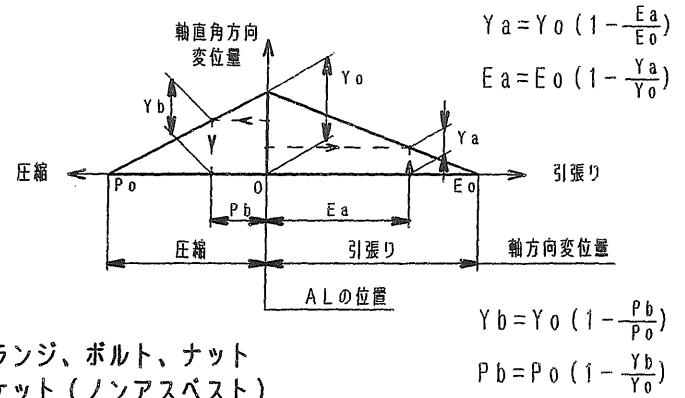
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| REV. | DATE |

HOSE, RUBBER

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



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

|               |               |
|---------------|---------------|
| 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   |

|      |          |
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| 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