



## INSTALLATION MANUAL

| NAME OF PRODUCT                | GT SUPERCHARGER SYSTEM   |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
|--------------------------------|--|-------------------------------|--|------------|--|------------|---|--------------------------------|--|---------------------|----------------------------|----------|----------------------------|-----------------|--|--------------------|-------------------------------|
| PART NUMBER                    | PRO KIT (P/N: 12001-AH007)   |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| APPLICATION                    | HONDA CR-Z (DAA-ZF1)   |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| ENGINE                         | LEA-MF6  |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| YEAR                           | 2010/02-2012/08  |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| REMARKS                        | <ul style="list-style-type: none"> <li>▪ HKS will not be responsible for any and all damage to the vehicle's engine or other supplemental devices through the use of this product.</li> <li>▪ This product is best used with the following parts on the Recommended Parts List.</li> <li>▪ Using this product with any other parts may result in engine damage.</li> <li>▪ HKS will not be responsible for any damage caused by using this product with any other parts.</li> <li>▪ High octane gasoline must be used</li> <li>▪ DENSO Washer Assy (160200-5070) may be required due to the removal of the factory washer tank when installing this kit.</li> </ul> <table border="1" style="margin-left: 40px; margin-bottom: 20px;"> <thead> <tr> <th colspan="2" style="text-align: center;">Pro Kit Designated Parts List</th> </tr> </thead> <tbody> <tr> <td style="width: 30%;">Spark Plug</td> <td>HKS Super Fire Racing M40i or NGK heat range 8 equivalent.</td> </tr> <tr> <td>Engine Oil</td> <td>HKS Engine Oil (Oil Viscosity must be 25W or higher.)</td> </tr> </tbody> </table> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th colspan="2" style="text-align: center;">Pro Kit Recommended Parts List</th> </tr> </thead> <tbody> <tr> <td style="width: 30%;">Catalytic Converter</td> <td>OEM or HKS Metal Catalyzer</td> </tr> <tr> <td>Mid-Pipe</td> <td>OEM or HKS SUS Center Pipe</td> </tr> <tr> <td>Muffler/Exhaust</td> <td>OEM or HKS Silent Hi-Power Exhaust or HKS LEGA MAX Premium Exhaust</td> </tr> <tr> <td>Fuel Upgrade Parts</td> <td>HKS Fuel Upgrade Kit for GTSC</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>▪ HKS will not be responsible for any damage caused by the use of this product beyond the impeller's maximum RPM limit (110,000rpm) and/or the specified engine RPM.</li> </ul> | Pro Kit Designated Parts List |  | Spark Plug | HKS Super Fire Racing M40i or NGK heat range 8 equivalent. | Engine Oil | HKS Engine Oil (Oil Viscosity must be 25W or higher.) | Pro Kit Recommended Parts List |  | Catalytic Converter | OEM or HKS Metal Catalyzer | Mid-Pipe | OEM or HKS SUS Center Pipe | Muffler/Exhaust | OEM or HKS Silent Hi-Power Exhaust or HKS LEGA MAX Premium Exhaust | Fuel Upgrade Parts | HKS Fuel Upgrade Kit for GTSC |
| Pro Kit Designated Parts List  |  |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| Spark Plug                     | HKS Super Fire Racing M40i or NGK heat range 8 equivalent.   |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| Engine Oil                     | HKS Engine Oil (Oil Viscosity must be 25W or higher.)  |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| Pro Kit Recommended Parts List |  |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| Catalytic Converter            | OEM or HKS Metal Catalyzer   |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| Mid-Pipe                       | OEM or HKS SUS Center Pipe   |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| Muffler/Exhaust                | OEM or HKS Silent Hi-Power Exhaust or HKS LEGA MAX Premium Exhaust   |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |
| Fuel Upgrade Parts             | HKS Fuel Upgrade Kit for GTSC  |                               |  |            |  |            |   |                                |  |                     |                            |          |                            |                 |  |                    |                               |

### REVISION OF MANUAL

| Rev. Number | Date    | Manual Number    | Details                 |
|-------------|---------|------------------|-------------------------|
| 3-3.01      | 2013/02 | E04215-H15050-00 | 1 <sup>st</sup> Edition |
| 3-3.04      | 2015/04 | E04215-H15053-00 | 4 <sup>th</sup> Edition |
| 3-3.05      | 2016/03 | E04215-H15054-00 | 5 <sup>th</sup> Edition |

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## NOTICE

This manual assumes that you have and know how to use the tools and equipment necessary to safely perform service operations on your vehicle. This manual assumes that you are familiar with typical automotive systems and basic service and repair procedures. Do not attempt to carry out the operations shown in this manual unless these assumptions are correct. Always have access to a factory service manual. To avoid injury, follow the safety precautions contained in the factory service manual.

## ATTENTION

- This manual indicates items you need to pay attention to in order to install this product safely and lists precautions to avoid any possible damage and/or accidents.
- This product is an automobile part. Do not use for any other purposes.
- HKS will not be responsible for any damage caused by incorrect installation and/or use, or use after modification and/or dismantling of this product.
- This product was designed for installation on a specific factory vehicle.
- The specifications of this product are subject to change without notice.
- The instructions are subject to change without notice. Make sure to refer to the most recent instructions.
- This manual shows instructions for the JDM and USDM vehicles. There are some procedures shown with asterisk marks; these must be performed only for a specific type of vehicle. Make sure to perform those procedures only if they are required for your vehicle type.
- This kit includes all parts required to install to both the JDM and USDM vehicles. There are some parts that are required only for a specific type of vehicle. See the remarks of the parts list.

## APPLICATION DATA

If the maximum engine output is more than 200PS, it is recommended to replace and/or modify the factory water pump pulley, A/C pulley and crank pulley to 6 rib since slippage of the 4 rib belt may occur. Refer to the application list below for the suggested 6 rib belt when replacing and/or modifying the factory pulleys.

| Pulley            | Outside Diameter  |
|-------------------|---|
| Water Pump Pulley | Same as the factory pulley (The width should be wider.)   |
| A/C Pulley        | <b>127.7mm</b> (Shave all 4 ribs on the factory pulley. Prepare a 6 rib ring and press fit the ring to the pulley.) |
| Crank Pulley      | Same as the factory pulley (Add 2 ribs to the pulley.)  |

### Supercharger Pulley Application List

| Supercharger Pulley Diameter          | ※① Impeller Max RPM (at 6500rpm) | 4 Rib Belt | ※② 6 Rib Belt (Ref. Data) |
|---------------------------------------|----------------------------------|------------|---------------------------|
| φ100 (Boost: 0.8kgf/cm <sup>2</sup> ) | Approx. 98000                    | 4PK1245    | 6PK1265                   |
| φ95 (Boost: 0.9kgf/cm <sup>2</sup> )  | Approx. 103000                   | 4PK1240    | 6PK1260                   |
| φ90 (Boost: 1.0kgf/cm <sup>2</sup> )  | Approx. 109000                   | 4PK1225    | 6PK1245                   |
| φ85 (Boost: 1.2kgf/cm <sup>2</sup> )  | Approx. 115500                   |            | 6PK1240                   |
| φ80 (Boost: 1.4kgf/cm <sup>2</sup> )  | Approx. 122700                   |            | 6PK1230                   |

For safety precautions and product warranty liabilities, the impeller's maximum RPM should not exceed 110,000 rpm. HKS will not be responsible for any damage caused by the use of this product beyond the impeller's maximum RPM limit.

# PARTS LIST

| NO. | DESCRIPTION  | QT | REMARKS                                     |
|-----|--|----|---|
| 1   | Supercharger Unit Kit                                  | 1  | GTS4015 HP                                  |
| 2   | Oil Filter   | 1  |   |
| 3   | Oil Tank   | 1  |   |
| 4   | Traction Oil   | 1  |   |
| 5   | Oil Cooler   | 1  |   |
| 6   | Elbow Fitting  | 2  |   |
| 7   | Pulley 60mm  | 2  |   |
| 8   | Supercharger Unit Pulley                               | 1  |   |
| 9   | Belt   | 1  | 4PK1240                                     |
| 10  | Intercooler  | 1  |   |
| 11  | Restrictor $\phi 27$<br>(For JDM Factory Fuel Spec.)   | 1  | Hole Dia.: $\phi 27$ ※Only For JDM vehicle  |
| 12  | Restrictor $\phi 38$<br>(For USDM Fuel Upgraded Spec.) | 1  | Hole Dia.: $\phi 38$ ※Only For USDM vehicle |
| 13  | Bypass Valve Assembly                                  | 1  |   |
| 14  | Air Filter   | 1  | 150mm-60mm Red                              |
| 15  | Hose 4mm   | 1  | 500mm                                       |
| 16  | Hose 8mm   | 1  | 3000mm                                      |
| 17  | Hose 10mm  | 1  | 1250mm                                      |
| 18  | Hose 22mm  | 1  | 500mm                                       |
| 19  | Oil Resistant Hose 10mm                                | 1  | 1000mm                                      |
| 20  | Corrugated Tube 8mm                                    | 1  |   |
| 21  | Corrugated Tube 10mm                                   | 1  |   |
| 22  | Corrugated Tube 22mm                                   | 1  |   |
| 23  | Intercooler Inlet Pipe No.1                            | 1  |   |
| 24  | Intercooler Inlet Pipe No.2                            | 1  |   |

# PARTS LIST

| NO. | DESCRIPTION                          | QT | REMARKS |
|-----|--------------------------------------|----|---------|
| 25  | Intercooler Inlet Pipe No.3          | 1  |         |
| 26  | Intercooler Outlet Pipe No.1         | 1  |         |
| 27  | Intercooler Outlet Pipe No.2         | 1  |         |
| 28  | Intercooler Outlet Pipe No.3         | 1  |         |
| 29  | Suction Pipe No.1                    | 1  |         |
| 30  | Suction Pipe No.2                    | 1  |         |
| 31  | Suction Pipe No.3                    | 1  |         |
| 32  | Supercharger Bracket No.1            | 1  |         |
| 33  | Supercharger Bracket No.2            | 1  |         |
| 34  | Tensioner Bracket No.1               | 1  |         |
| 35  | Tensioner Bracket No.2               | 1  |         |
| 36  | Oil Tank Bracket                     | 1  |         |
| 37  | Intercooler Inlet Pipe Bracket       | 1  |         |
| 38  | Oil Cooler Bracket No.1              | 1  |         |
| 39  | Oil Cooler Bracket No.2              | 1  |         |
| 40  | Oil Cooler Bracket No.3              | 1  |         |
| 41  | Intercooler Outlet Pipe Bracket No.1 | 1  |         |
| 42  | Intercooler Outlet Pipe Bracket No.2 | 1  |         |
| 43  | Intercooler Bracket                  | 1  |         |
| 44  | Suction Pipe Bracket                 | 1  |         |
| 45  | Universal Pipe Bracket 50mm          | 3  |         |
| 46  | Universal Pipe Bracket 60mm          | 1  |         |
| 47  | Suction Pipe Gasket                  | 1  |         |
| 48  | Silicone Hose 50mm L=20              | 2  |         |

# PARTS LIST

| NO. | DESCRIPTION             | QT | REMARKS                |
|-----|-------------------------|----|------------------------|
| 49  | Silicone Hose 50mm L=55 | 3  |                        |
| 50  | Silicone Hose 50mm L=70 | 1  |                        |
| 51  | Silicone Hose 60mm L=55 | 2  |                        |
| 52  | Silicone Hose 60mm L=70 | 1  |                        |
| 53  | Silicone Hose 70mm L=20 | 2  |                        |
| 54  | Silicone Hose 45mm-50mm | 1  |                        |
| 55  | Cushion Hose 50mm L=75  | 2  |                        |
| 56  | Cushion Hose 60mm L=75  | 1  |                        |
| 57  | Spacer M4 L=1.5         | 2  | Brass                  |
| 58  | Spacer M8 L=3.5         | 3  |                        |
| 59  | Spacer M8 L=5           | 1  |                        |
| 60  | Spacer M8 L=10          | 1  | ※Only for USDM vehicle |
| 61  | Spacer M8 L=25          | 2  |                        |
| 62  | Spacer N10 L=3.2        | 2  |                        |
| 63  | Hose Fitting 4mm        | 1  |                        |
| 64  | Hose Fitting 10mm       | 3  |                        |
| 65  | Hose Clip 8mm           | 3  |                        |
| 66  | Hose Clip 10mm          | 3  |                        |
| 67  | Hose Clamp #4           | 5  |                        |
| 68  | Hose Clamp #16          | 2  |                        |
| 69  | Hose Clamp #28          | 16 |                        |
| 70  | Hose Clamp #36          | 10 |                        |
| 71  | Hose Clamp #40          | 2  |                        |
| 72  | Elbow PT1/8             | 1  |                        |
| 73  | 3-way Connector PT1/8   | 1  |                        |

# PARTS LIST

| NO. | DESCRIPTION            | QT | REMARKS                            |
|-----|------------------------|----|------------------------------------|
| 74  | Hexagon Bolt M6 L=15   | 8  |                                    |
| 75  | Hexagon Bolt M8 L=15   | 4  |                                    |
| 76  | Hexagon Bolt M8 L=20   | 3  |                                    |
| 77  | Hexagon Bolt M8 L=30   | 1  | ※Only for USDM vehicle             |
| 78  | Hexagon Bolt M10 L=20  | 1  |                                    |
| 79  | Cap Bolt M6 L=12       | 5  | Low Head Type                      |
| 80  | Cap Bolt M6 L=15       | 3  |                                    |
| 81  | Cap Bolt M8 L=15       | 2  |                                    |
| 82  | Cap Bolt M8 L=50       | 2  |                                    |
| 83  | Cap Bolt M8 L=70       | 1  |                                    |
| 84  | Cap Bolt M10 L=20      | 3  |                                    |
| 85  | Cap Bolt M10 L=30      | 1  |                                    |
| 86  | Cap Bolt M10 L=35      | 2  |                                    |
| 87  | Flat Head Bolt M8 L=35 | 3  |                                    |
| 88  | Lock Washer M6         | 8  |                                    |
| 89  | Lock Washer M8         | 7  |                                    |
| 90  | Lock Washer M10        | 1  |                                    |
| 91  | Washer M6              | 11 |                                    |
| 92  | Washer M8              | 13 | ※For JDM vehicle, use only 12 pcs. |
| 93  | Washer M10             | 7  |                                    |
| 94  | Flange Nut M6          | 4  |                                    |
| 95  | Flange Nut M8          | 6  |                                    |
| 96  | Flange Nut M10         | 1  |                                    |
| 97  | Sponge Sheet           | 3  |                                    |
| 98  | Tie Wrap (Large)       | 5  |                                    |

## PARTS LIST

| NO. | DESCRIPTION         | QT | REMARKS                   |
|-----|---------------------|----|---------------------------|
| 99  | Tie Wrap (Medium)   | 10 |                           |
| 100 | Tie Wrap (Small)    | 10 |                           |
| 101 | High-Octane Decal   | 1  |                           |
| 102 | Instruction Manual  | 1  | For Supercharger Kit      |
| 103 | Installation Manual | 1  | For Supercharger Unit Kit |

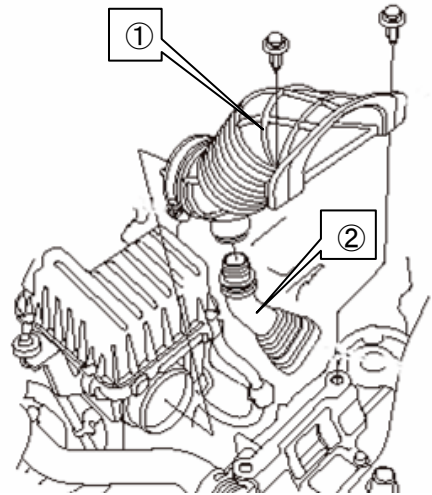
## 1. Removal of Factory Parts

Refer to this instruction manual and the factory service manual to remove the factory parts.

(1) Disconnect the negative cable from the battery.

(2) Remove the intake air tube ①.

(3) Remove the resonator chamber joint ②.



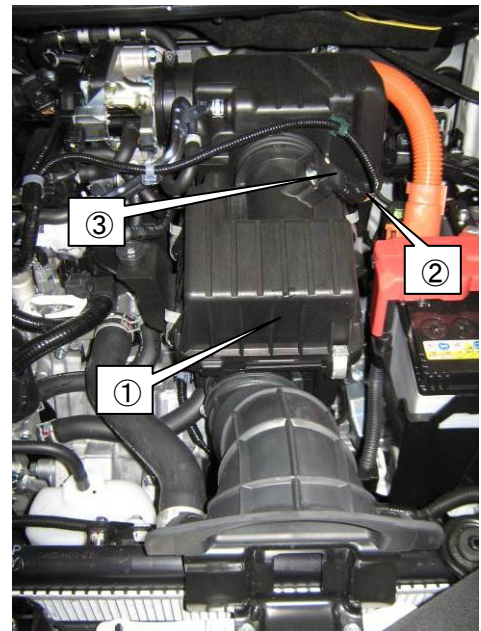
(4) Remove the air cleaner①.

(5) Disconnect the airflow sensor connector ②.

(6) Disconnect the air flow sensor ③.

### NOTE

- Keep the removed bolts for later use.

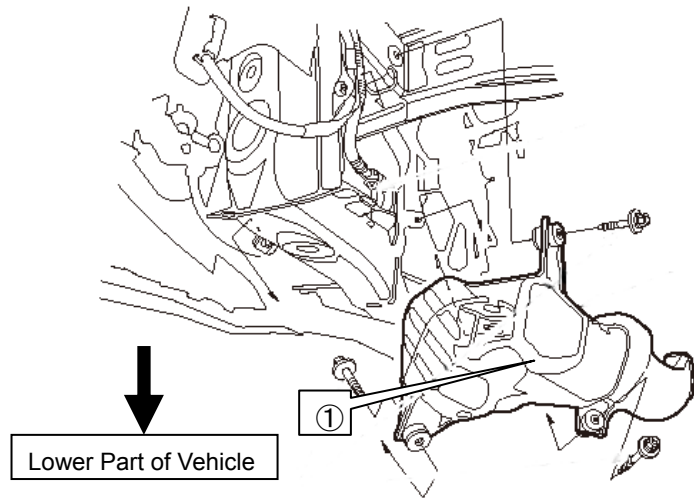


(7) Remove the left and right side splash shields.

(8) Remove the engine under cover.



(9) Remove the resonator ①.

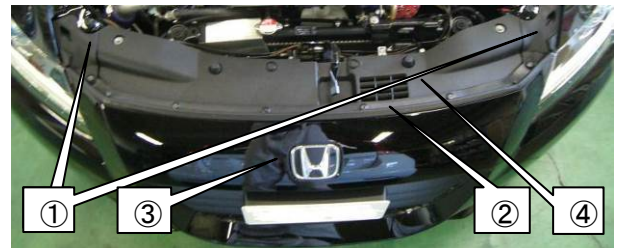


(10) Remove the front bumper side cover ①.

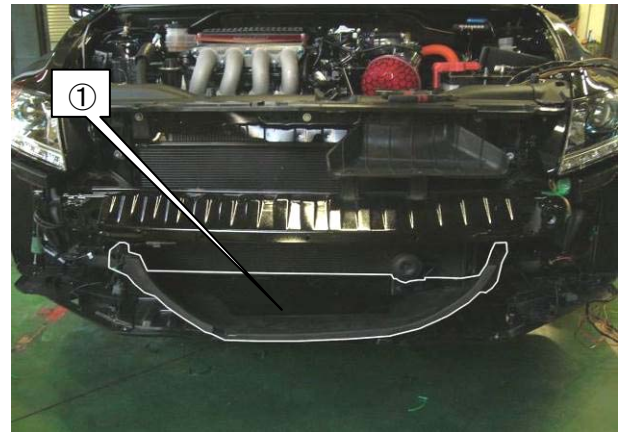
(11) Remove the front bumper center seal ②.

(12) Remove the front bumper ③.

(13) Remove the front bumper center upper beam ④.



(14) Remove the front bumper air guide ①.



(15) Remove the right side headlight.

(16) Disconnect the hose and connector from the pump, and remove the washer tank ①.

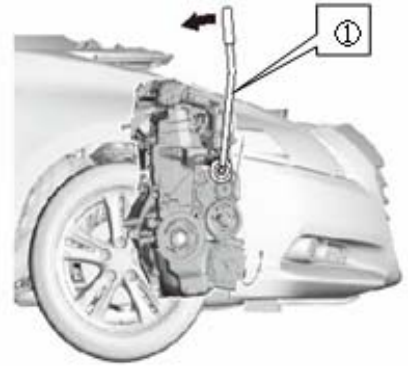
**NOTE**

- Prepare a replacement such as DENSO 160200-5070 Washer Assy.



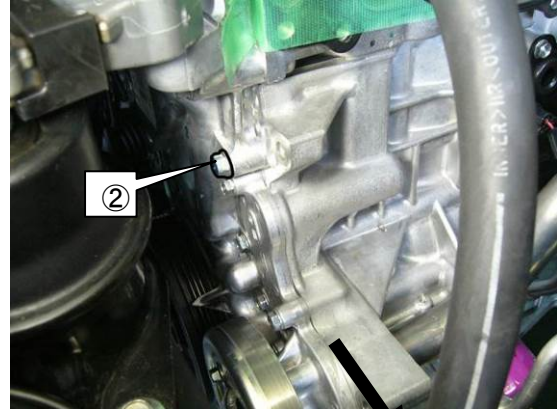
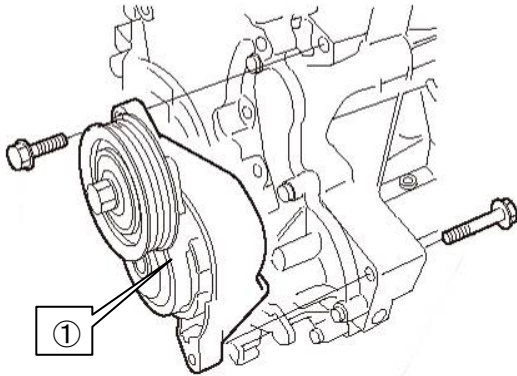
(17) Reinstall the headlight in a later step.

(18) Turn the auto tensioner pulley counterclockwise, and remove the belt. When turning the auto tensioner, use a tool ① such as Honda factory tool or box spanner. Place the tool as shown in the diagram on the right.



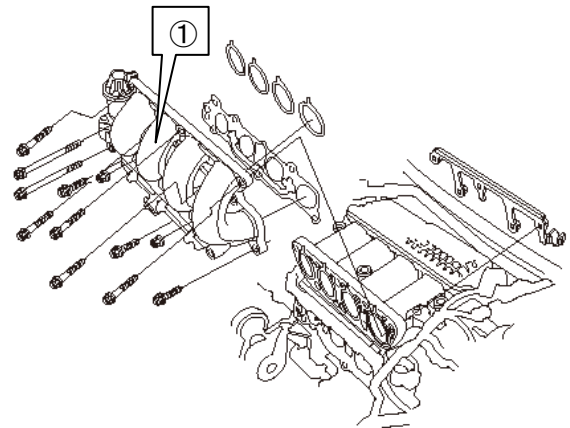
(19) Remove the auto tensioner.

(20) Remove the bolt ②.



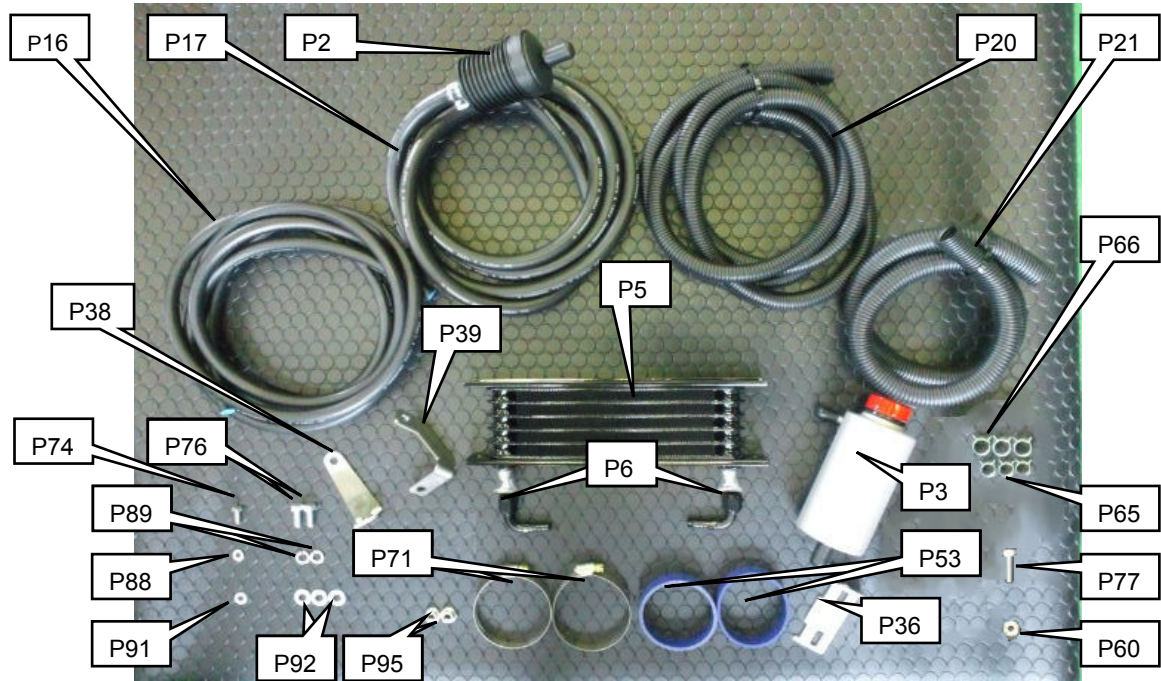
Vehicle's Front

(21) Remove the intake manifold ①.



## 2. Installation of Oil Cooler

### PARTS LIST



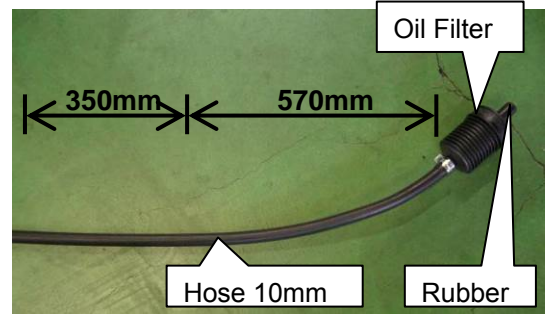
| No. | Description             | QT |
|-----|-------------------------|----|
| P2  | Oil Filter              | 1  |
| P3  | Oil Tank                | 1  |
| P5  | Oil Cooler              | 1  |
| P6  | Elbow Fitting           | 2  |
| P16 | Hose 8mm                | 1  |
| P17 | Hose 10mm               | 1  |
| P20 | Corrugated Tube 8mm     | 1  |
| P21 | Corrugated Tube 10mm    | 1  |
| P36 | Oil Tank Bracket        | 1  |
| P38 | Oil Cooler Bracket No.1 | 1  |
| P39 | Oil Cooler Bracket No.2 | 1  |
| P53 | Silicone Hose 70mm L=20 | 2  |
| P60 | Spacer M8 L=10          | 1  |
| P65 | Hose Clip 8mm           | 3  |
| P66 | Hose Clip 10mm          | 3  |
| P71 | Hose Clamp #40          | 2  |
| P74 | Hexagon Bolt M6 L=15    | 1  |
| P76 | Hexagon Bolt M8 L=20    | 2  |
| P77 | Hexagon Bolt M8 L=30    | 1  |
| P88 | Lock Washer M6          | 1  |
| P89 | Lock Washer M8          | 2  |
| P91 | Washer M6               | 1  |
| P92 | Washer M8               | 3  |
| P95 | Flange Nut M8           | 2  |



- (1) Cut the Hose 8mm to 1000mm and 1250mm. Cut the Hose 10mm to 350mm and 570mm.

**NOTE**

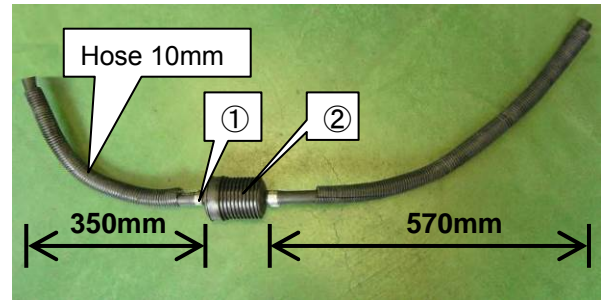
- When cutting the 10mm Hose, do not disconnect the hose from the oil filter as shown in the diagram on the right.



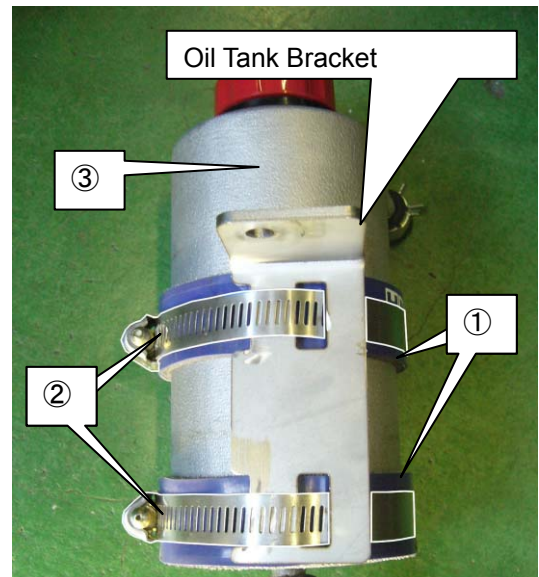
- (2) Remove the rubber cap from the Oil Filter.

- (3) Cut the Corrugated Tube 8mm to 1000mm and 1250mm, and cut the Corrugated Tube 10mm to 350mm and 570mm. Cover each cut hose with the cut Corrugated Tube of the same length.

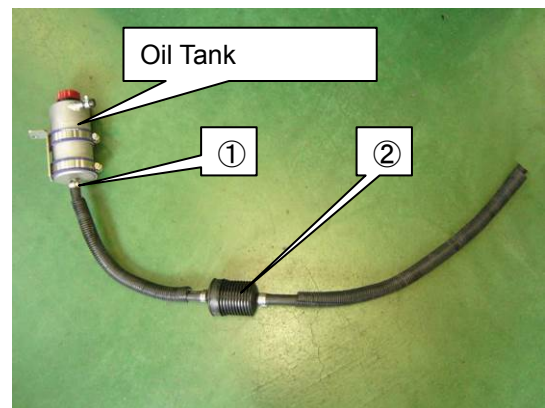
- (4) Connect the cut Hose 10mm to the other side of the Oil Filter ② using the 10mm Hose Clamp ①.



- (5) Install the Oil Tank Bracket to the Oil Tank ③ using the Silicone Hose 70mm L=20 ① and Hose Clamp #40 ②.



- (6) Remove the rubber cap from the hose fitting on the lower part of the Oil Tank and connect the Hose 10mm ② using the Hose Clip 10mm ①.

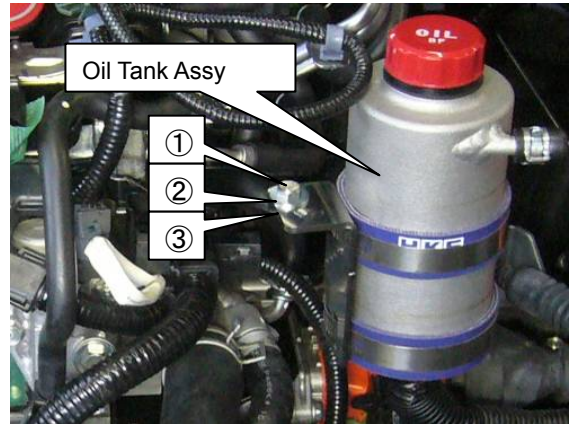


(7) Route the hose as shown in the diagrams below. Install the Oil Tank Assy to the vehicle using the following parts.

- ① Hexagon Bolt M6 L=15
- ② Lock Washer M6
- ③ Washer M6

**NOTE**

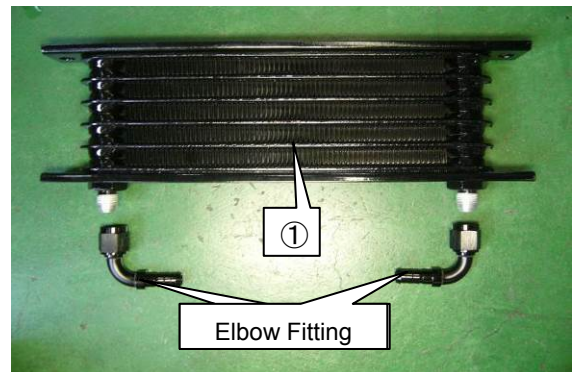
• Adjust the angle of the Oil Tank Assy so the hose does not get kinked.



(8) Install the Elbow Fittings to the Oil Cooler ①.

**NOTE**

• Install the Fittings in the directions shown in the diagram on the right.



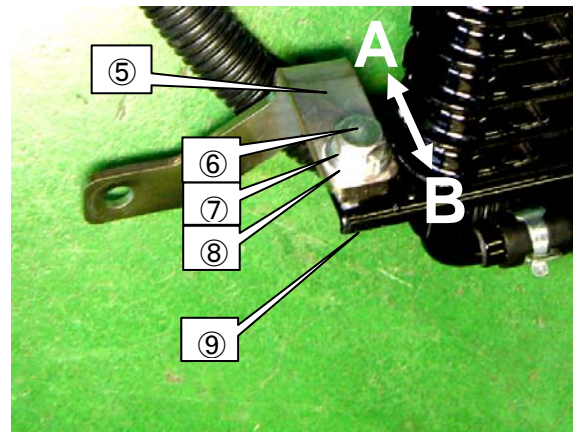
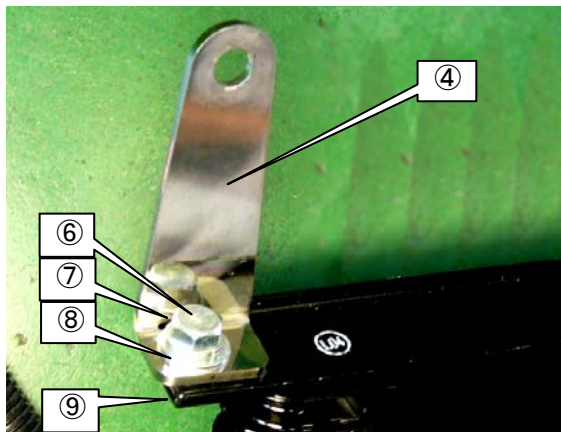
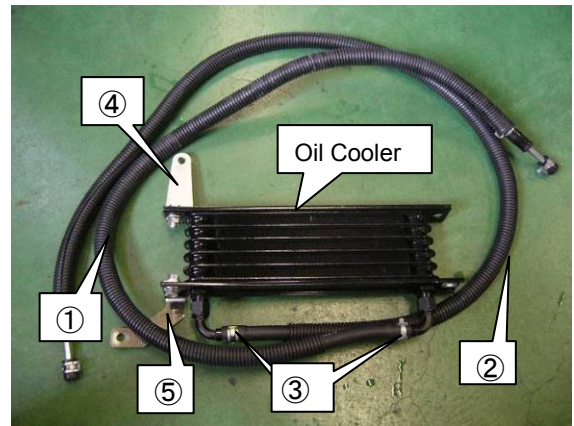
(9) Connect the 1000mm Hose 8mm ① and the 1250mm Hose 8mm ② to the Oil Cooler using the 8mm Hose Clamps ③.

(10) Install Oil Cooler Bracket No.1 ④ and Oil Cooler Bracket No.2 ⑤ to the Oil Cooler using the following parts.

- ⑥ Hexagon Bolt M8 L=20
- ⑦ Lock Washer M8
- ⑧ Washer M8
- ⑨ Flange Nut M8

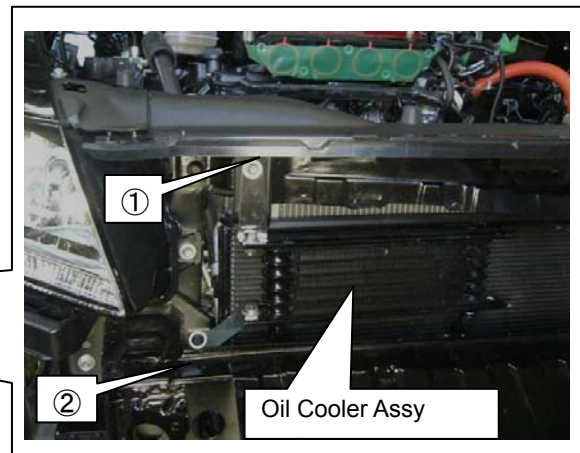
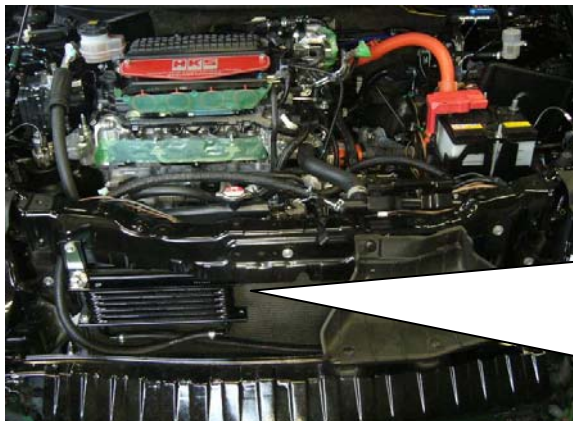
**NOTE**

- When installing ⑤ Traction Oil Cooler Bracket No. 2, for a JDM vehicle, pull the bracket toward side A, and for a USDM vehicle, pull the bracket toward side B.



(11) Remove bolts ① and ②, and install the Oil Cooler Assy to the vehicle.

※Only for a JDM vehicle.

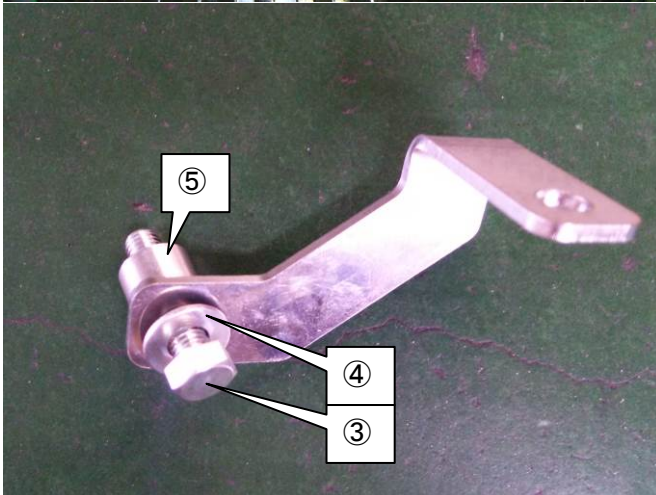
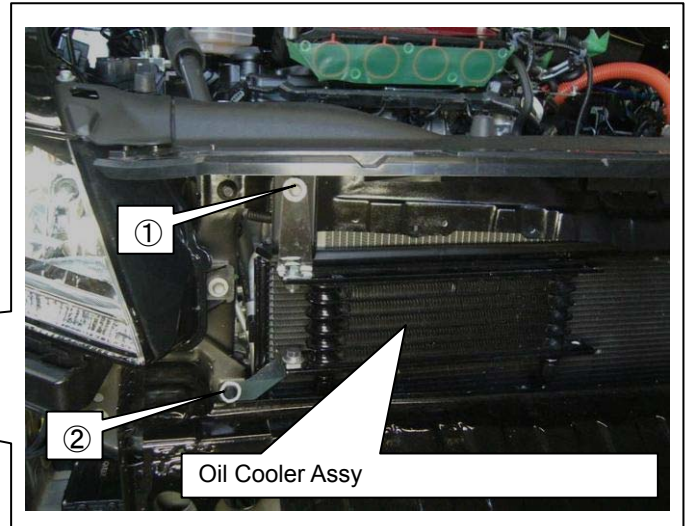
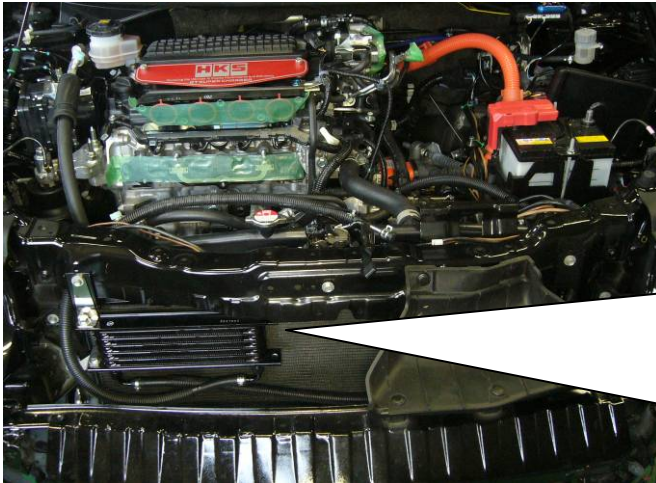




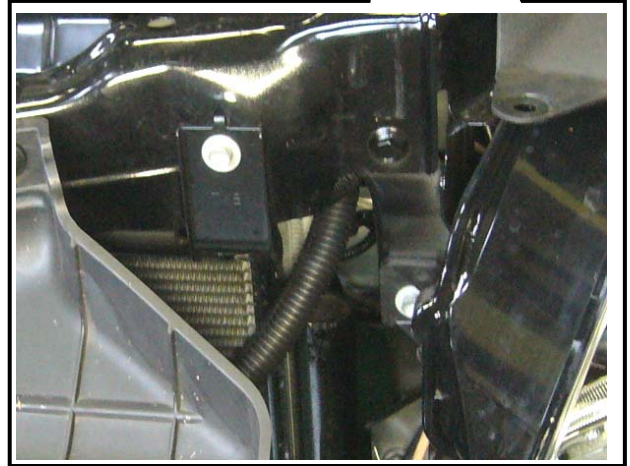
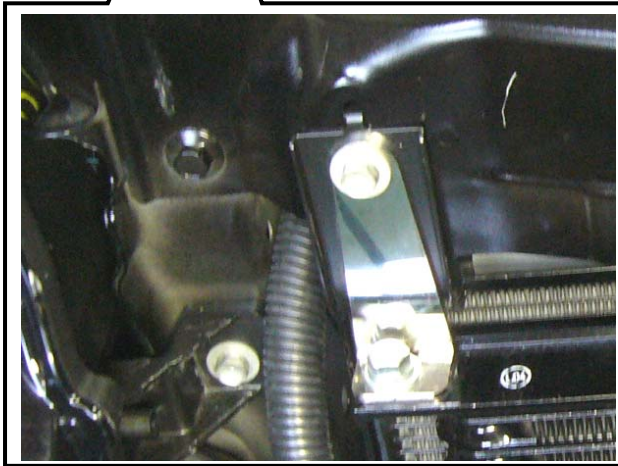
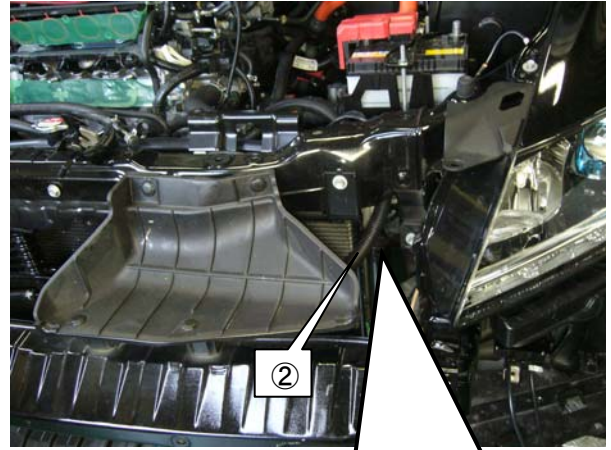
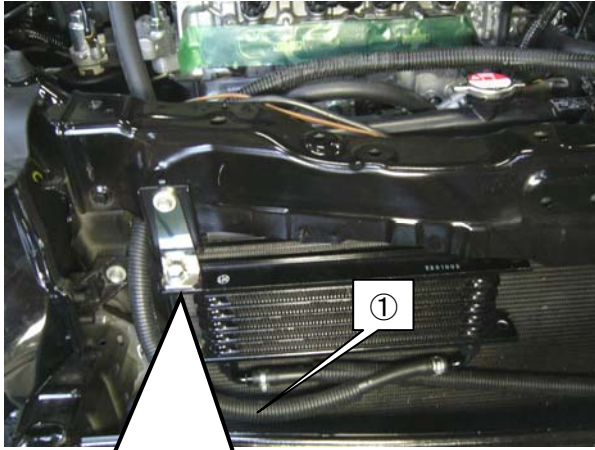
(12) Remove the factory bolt ① and ②. Install Traction Oil Cooler Assembly to the vehicle using the following parts:

- ①Removed Factory Bolt
- ③Hexagon Bolt M8 L=30
- ④Washer M8
- ⑤Spacer M8 L=10

※This procedure is required only to install this kit to a USDM vehicle.



(13) Pull the 1000mm Hose 8mm ① and the 1250mm Hose 8mm ② from the both ends of the A/C condenser to the engine room.

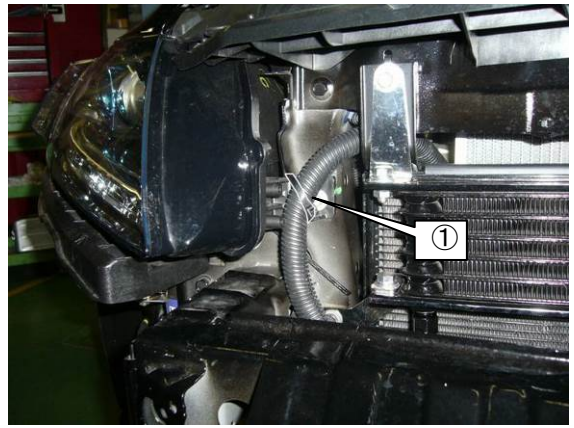




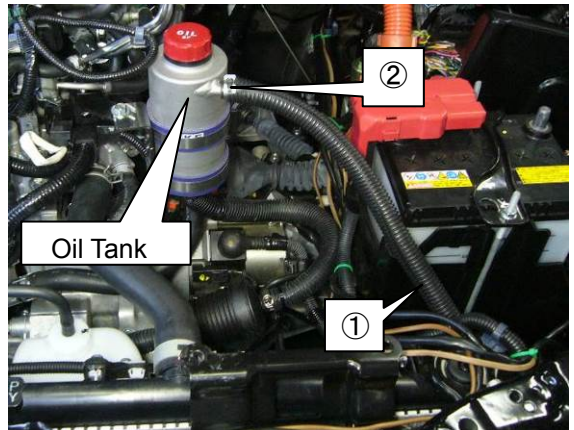
(14) Secure the Hose 8mm to ① using Tie Wraps as shown in the diagram so the hose does not come in contact with other parts of the vehicle.

**NOTE**

- Secure the hose at other locations using tie wraps if necessary.



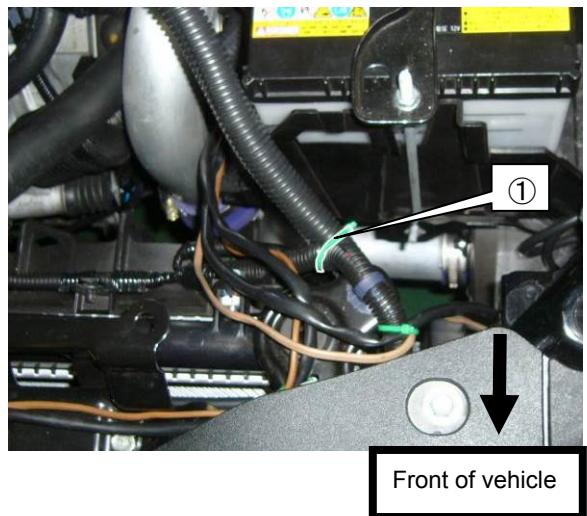
(15) Connect the 1250mm Hose 8mm ① to the Oil Tank using the 8mm Hose Clip ②.



(16) Secure the Hose 8mm to ① using the Tie Wrap as shown in the diagram so the hose does not come in contact with other parts of the vehicle.

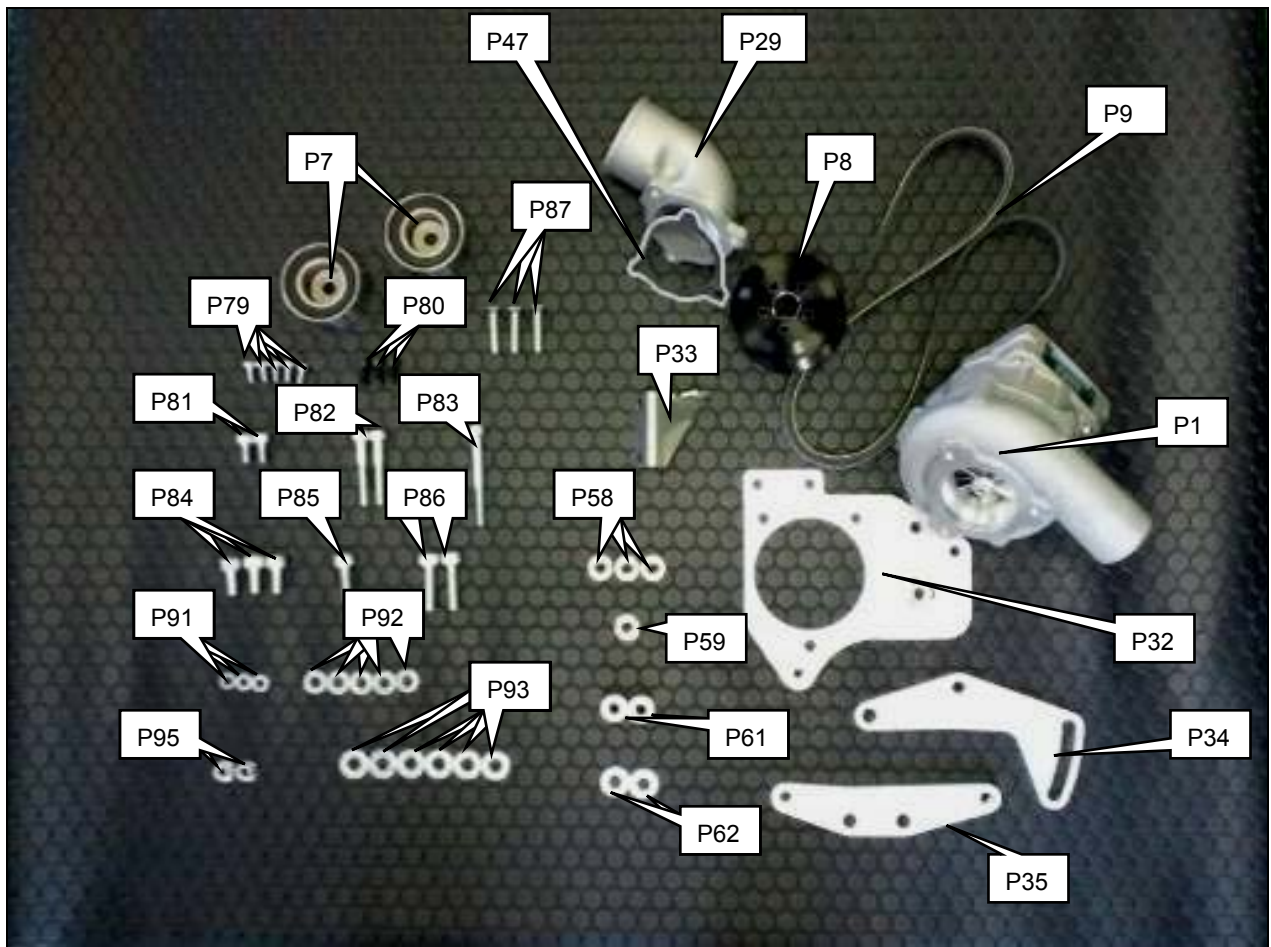
**NOTE**

- Secure the hose at other locations using tie wraps if necessary.



### 3. Installation of GT Supercharger

#### Parts List

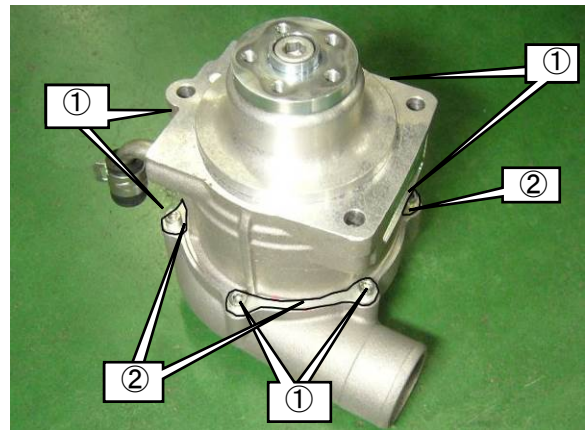


| No. | Description               | QT |
|-----|---------------------------|----|
| P1  | Supercharger Assy         | 1  |
| P7  | Pulley 60mm               | 2  |
| P8  | Supercharger Pulley       | 1  |
| P9  | Belt                      | 1  |
| P29 | Suction Pipe No.1         | 1  |
| P32 | Supercharger Bracket No.1 | 1  |
| P33 | Supercharger Bracket No.2 | 1  |
| P34 | Tensioner Bracket No.1    | 1  |
| P35 | Tensioner Bracket No.2    | 1  |
| P47 | Suction Pipe Gasket       | 1  |
| P58 | Spacer M8 L=3.5           | 3  |
| P59 | Spacer M8 L=5             | 1  |
| P61 | Spacer M8 L=25            | 2  |
| P62 | Spacer M10 L=3.2          | 2  |
| P79 | Cap Bolt M6 L=12          | 5  |
| P80 | Cap Bolt M6 L=15          | 3  |
| P81 | Cap Bolt M8 L=15          | 2  |

|     |                        |   |
|-----|------------------------|---|
| P82 | Cap Bolt M8 L=50       | 2 |
| P83 | Cap Bolt M8 L=70       | 1 |
| P84 | Cap Bolt M10 L=20      | 3 |
| P85 | Cap Bolt M10 L=30      | 1 |
| P86 | Cap Bolt M10 L=35      | 2 |
| P87 | Flat Head Bolt M8 L=35 | 3 |
| P91 | Washer M6              | 3 |
| P92 | Washer M8              | 5 |
| P93 | Washer M10             | 6 |
| P95 | Flange Nut M8          | 2 |

(1) Loosen the compressor housing bolt ① to loosen the compressor housing plate ②.

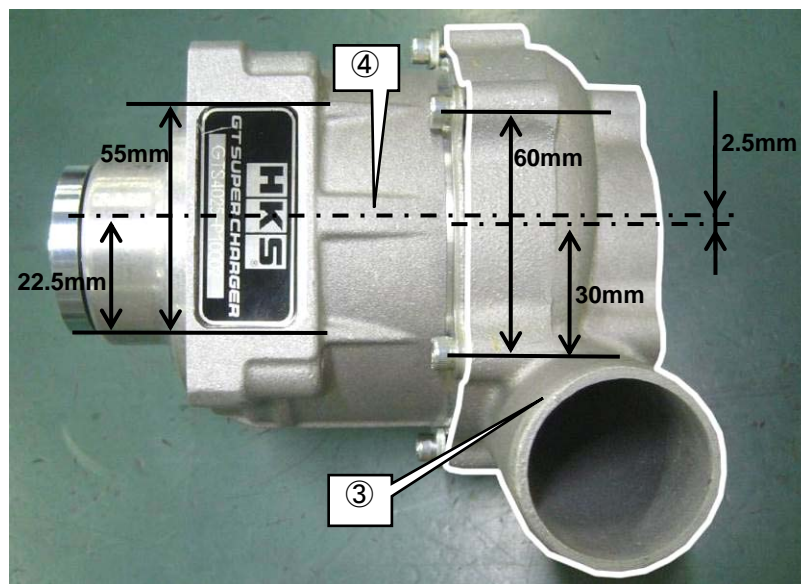
(2) Rotate the Supercharger unit and compressor housing ③, and adjust the angle of the Supercharger Assy and compressor housing until there is 2.5mm gap between the center line of the Supercharger Assy plate's both ends ④ and the center line of the compressor housing bolts ⑤ as shown in the diagram below. Then, retighten the compressor housing bolt ① and plate ②.



**NOTE**

• After adjusting the angles of the Supercharger Assy and the compressor housing, temporarily install the Supercharger Assy and the factory intake manifold to the vehicle; then temporarily install the suction pipe. Make sure the pipe does not come in contact with any other parts of the vehicle. Readjust the angle if necessary.

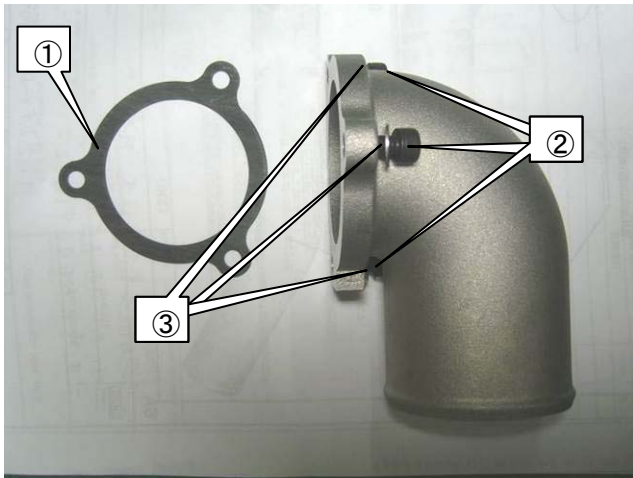
Torque Spec. N·m(kgf·m) T=5(0.51)





(3) Install Suction Pipe No.1 to the Supercharger Assy using the following parts.

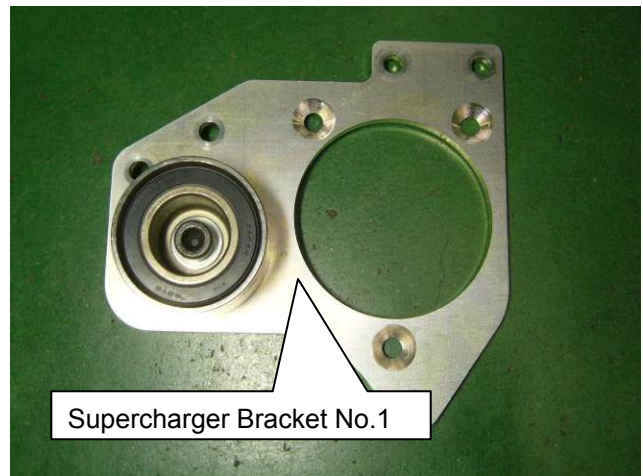
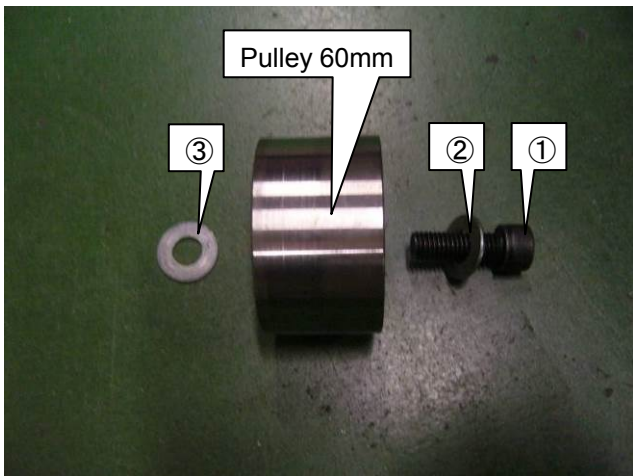
- ① Suction Pipe Gasket
- ② Cap Bolt M6 L=15
- ③ Washer M6



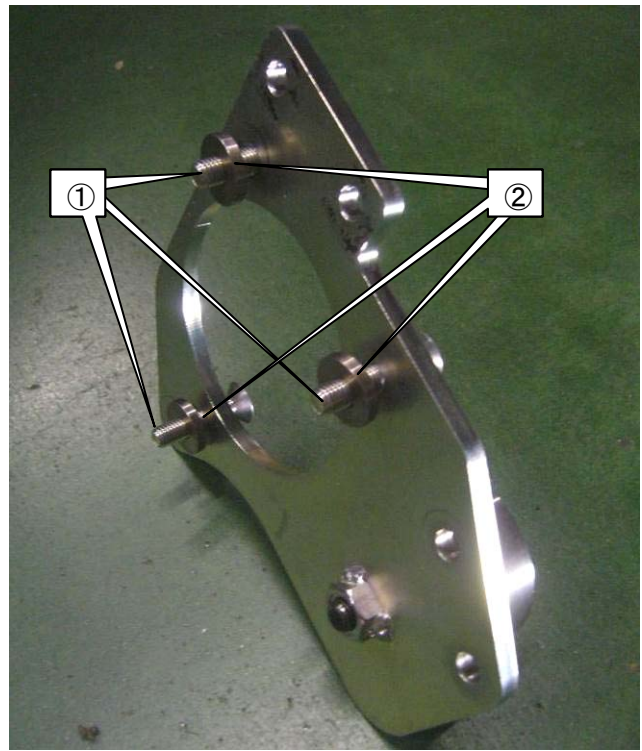
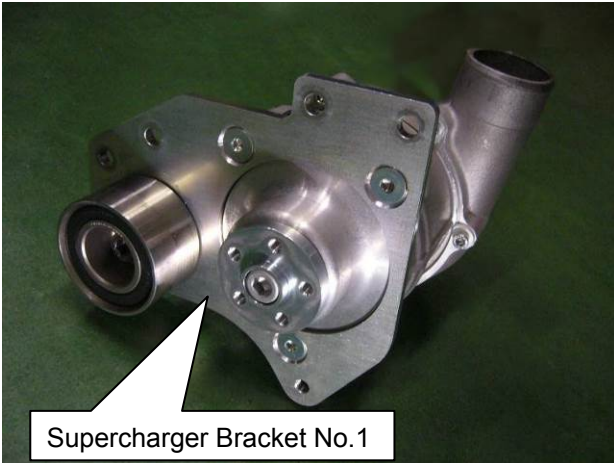
(4) Install the Pulley 60mm to Supercharger Bracket No.1 using the following parts.

- ① Cap Bolt M10 L=30
- ② Washer M10
- ③ Spacer M10 L=3

Torque Spec. N·m(kgf·m) T=43(4.38)



- (5) Insert the Spacer M8 L=3.5 ② between the Supercharger Assy and the Supercharger Bracket. Install the Supercharger Assy to Supercharger Bracket No.1 using the Flat Head Bolt M8 L=35 ①.



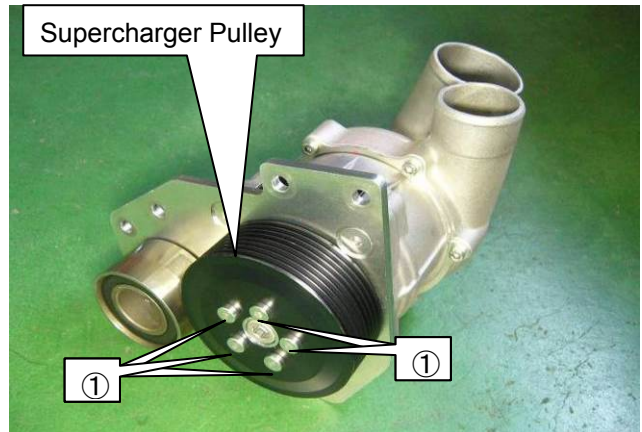
Torque Spec. N·m(kgf·m) T=29(3.0)

- (6) Install the Supercharger Pulley to the Supercharger Assy using the Hexagon Cap Bolt M6 L=12 ①.

**NOTE**

- When tightening the bolt, hold the bolt in the center of the pulley with a hexagon wrench so the center part of the Supercharger does not rotate.

Torque Spec. N·m(kgf·m) T=10(1.02)



- (7) Remove the factory engine oil level gauge. Cut the gauge as shown in the diagram on the right.

- (8) Reinstall the modified factory engine oil level gauge.



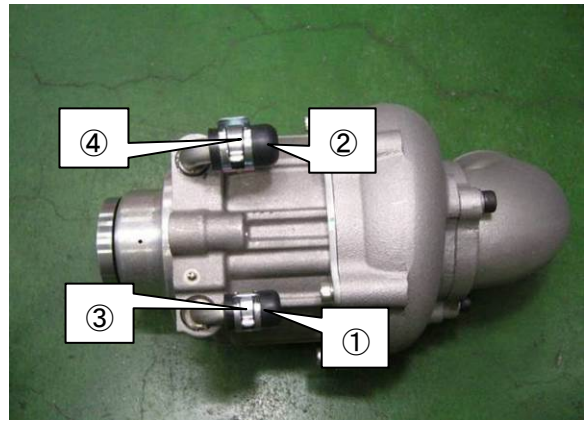


(9) Remove the following parts from the Supercharger Assy.

- ① Rubber Cap 8mm
- ② Rubber Cap 10mm
- ③ Hose Clip 8mm
- ④ Hose Clip 10mm

**NOTE**

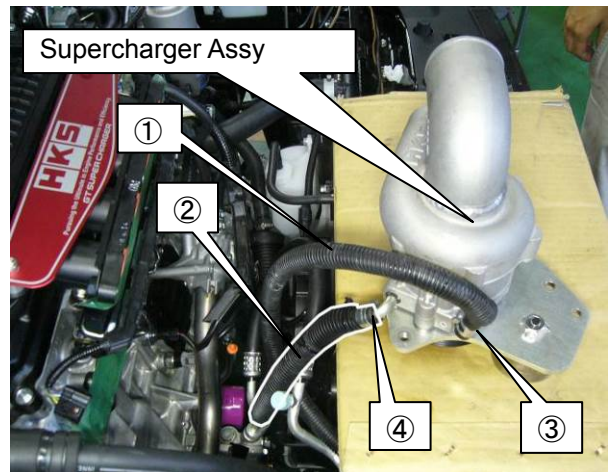
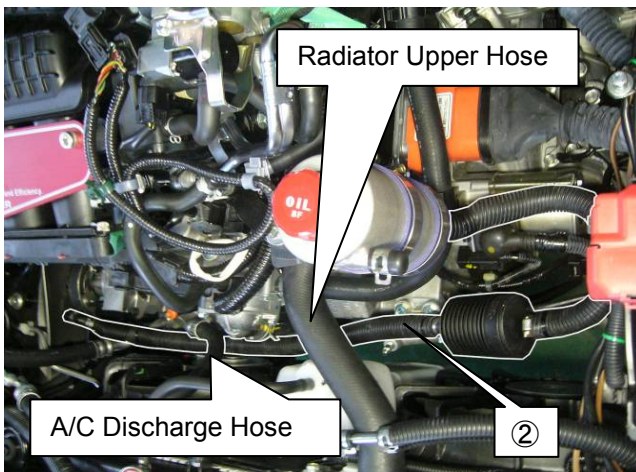
- Keep the hose clip 8mm and 10mm for later use.



(10) Connect the 1000mm Hose 8mm ① and the 570mm Hose 10mm ② to the Supercharger Assembly using the 8mm Hose Clip ③ and the 10mm Hose Clip ④ removed from the Supercharger Assembly in (9).

**NOTE**

- When working on the Supercharger Assy, place a cushion on the radiator core support and put the Supercharger on the cushion
- Route the 570mm Hose 10mm under the radiator upper hose and A/C discharge hose when connecting to the Supercharger Assy.
- Route the 570mm Hose 10mm under the 1000mm Hose 8mm connected to the Supercharger Assy when connecting to the Supercharger Assy.



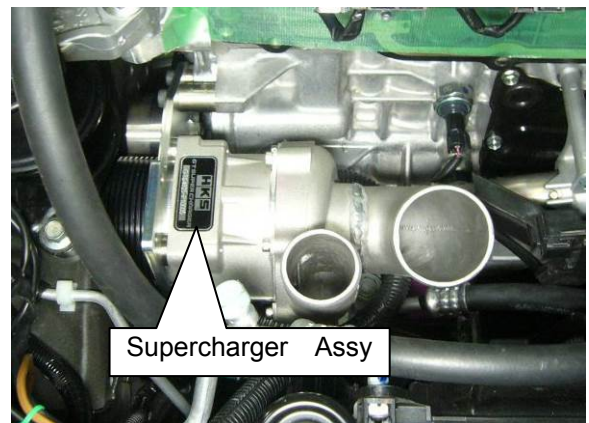
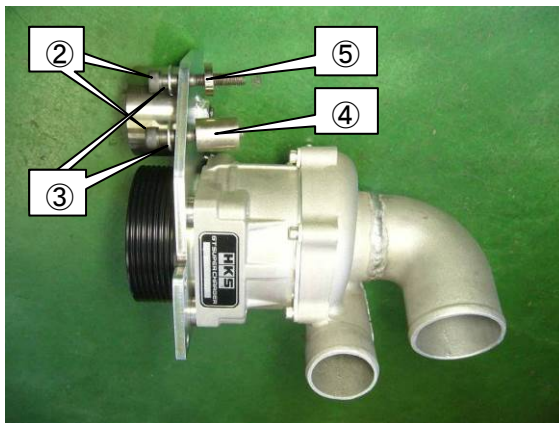
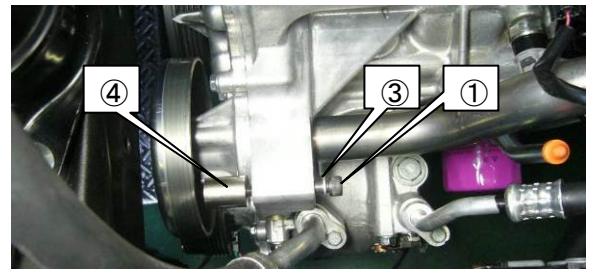
(11) Install the Supercharger to the vehicle using the following parts.

- ① Cap Bolt M8 L=70
- ② Cap Bolt M8 L=50
- ③ Washer M8
- ④ Spacer M8 L=25
- ⑤ Spacer M8 L=5

Torque Spec. N·m(kgf·m) T=24 (2.45)

**NOTE**

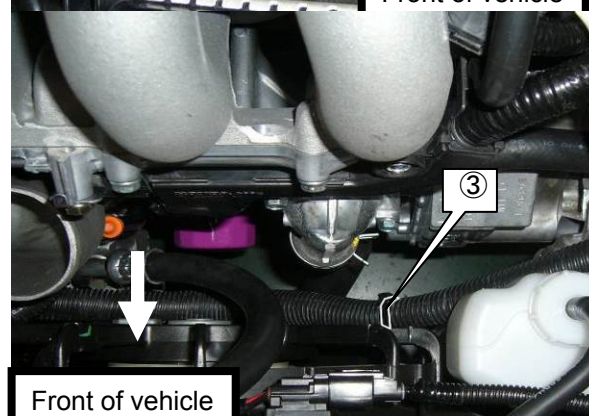
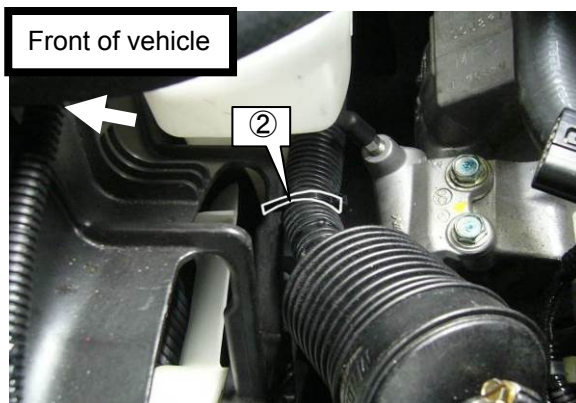
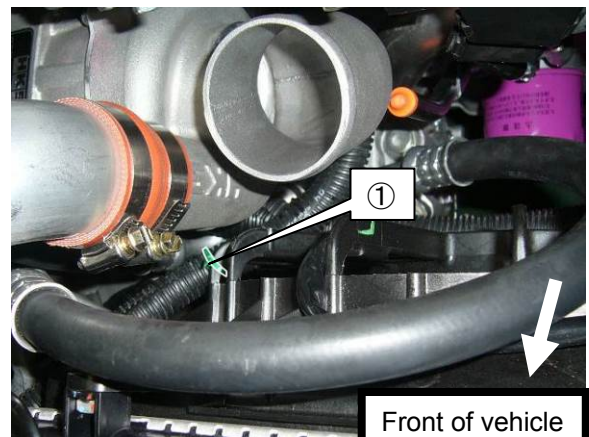
- For easier installation, secure the bolt, washer, and spacer on the lower part of the Supercharger to the vehicle using sealing tape. Make sure to peel off the tape after installation is complete.
- Adjust the position of the hose clamp and hose fitting so the hose fitting on the lower part of the Supercharger does not get caught in the engine when installing the Supercharger Assy.



(12) Secure the Hose 8mm and 10mm to ① to ③ using tie wraps so the hoses do not come in contact with other parts of the vehicle.

**NOTE**

- Secure the hose at other locations using tie wraps if necessary.
- It may be necessary to carefully bend the A/C line for proper Supercharger clearance.



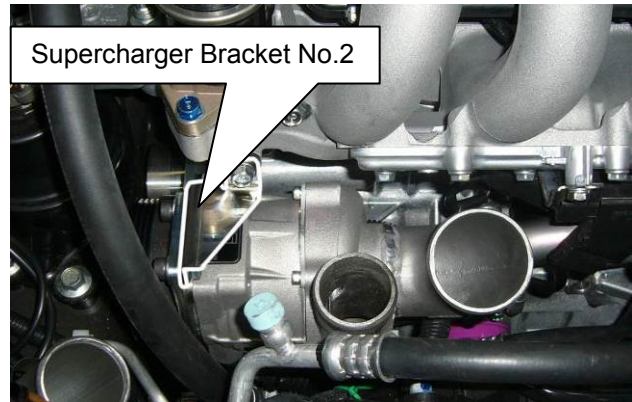
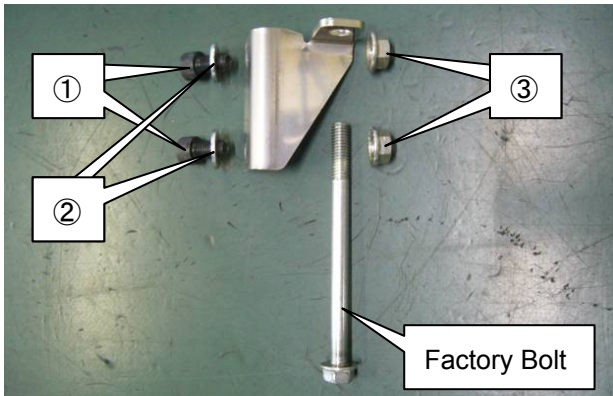


(13) Reinstall the factory intake manifold; then install Supercharger Bracket No.2 to the intake manifold using the factory bolt and Supercharger bracket No.1 with the following parts.

**Torque Spec. N·m(kgf·m)** T=24 (2.4) for intake manifold

Factory Bolt

- ① Cap Bolt M8 L=15
- ② Washers M8
- ③ Flange Nuts M8



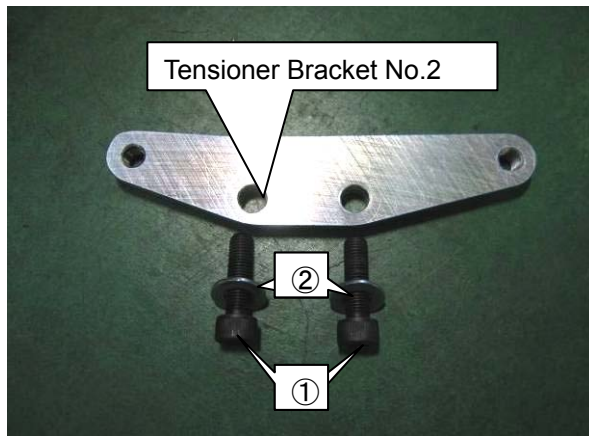
(14) Install Tensioner Bracket No.2 to the lower part of the engine using the following parts.

- ① Cap Bolts M10 L=35
- ② Washers M10

**NOTE**

•Make sure to install Tensioner Bracket No.2 in correct direction. Refer to the diagrams below.

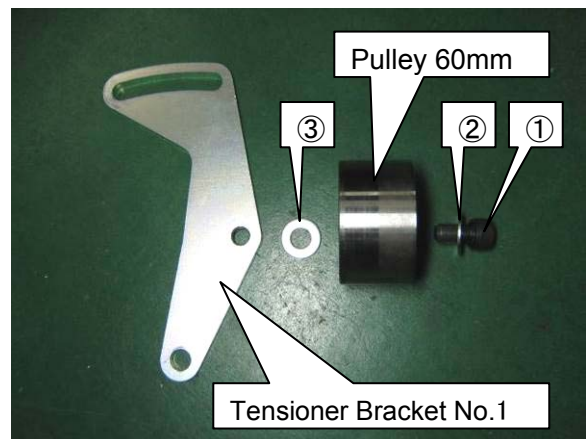
**Torque Spec. N·m(kgf·m)** T=43(4.38)



(15) Install the Pulley 60mm to Tensioner Bracket No.1 using the following parts.

- ① Cap Bolt M10 L=20
- ② Washer M10
- ③ Spacer M10 L=3

**Torque Spec. N·m(kgf·m)** T=35(3.57)

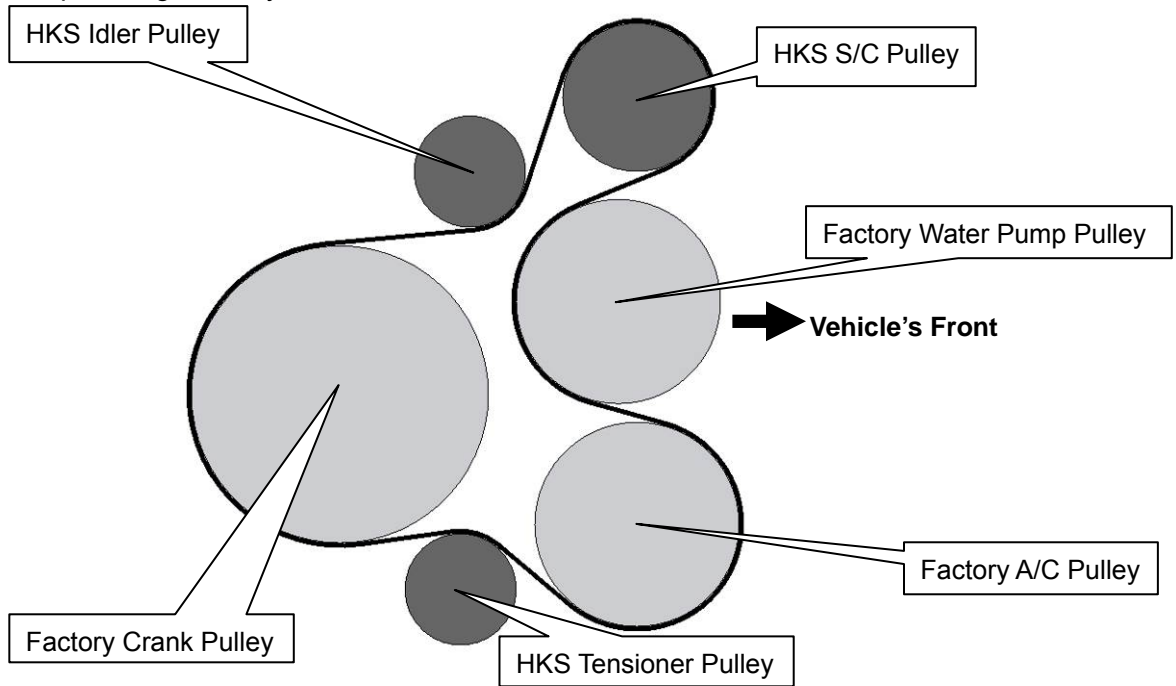




(16) Select the appropriate ribbed belt referring to the application list on page 1. Route the belt as shown in the diagram below.

**NOTE**

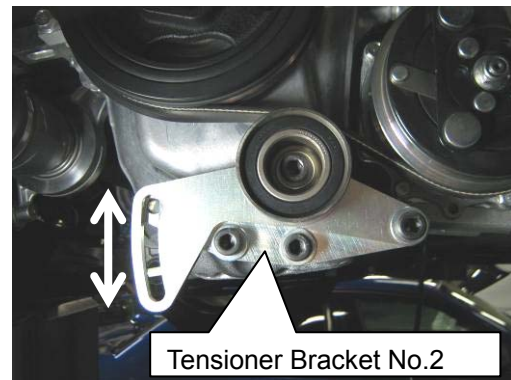
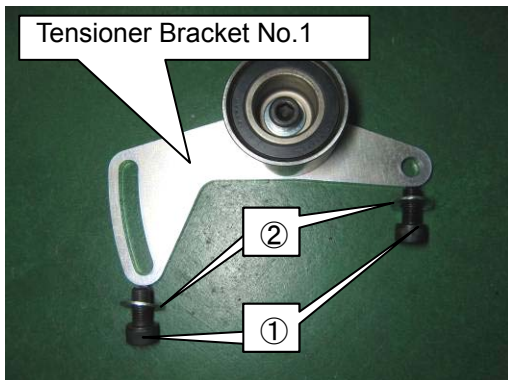
- For easier installation of the belt, rotate the factory crank pulley clockwise while installing.
- Since HKS Supercharger Pulley is 8-rib, the belt install the belt to the 4-rib on the driver's side.



(17) Install Tensioner Bracket No.1 to Tensioner Bracket No.2 using the following parts.

- ① Cap Bolts M10 L=20
- ② Washers M10

Move Tensioner Bracket No.1 up and down to adjust the belt tension to the indicated specification.



| Measurement Position                | Belt Span※ | Belt Tension (N{kg}) |
|-------------------------------------|------------|----------------------|
| Between Idler Pulley & Crank Pulley | 130mm      | 650{66.3}            |

※ Input the belt span value to the measuring instrument when measuring the tension.

**NOTE**

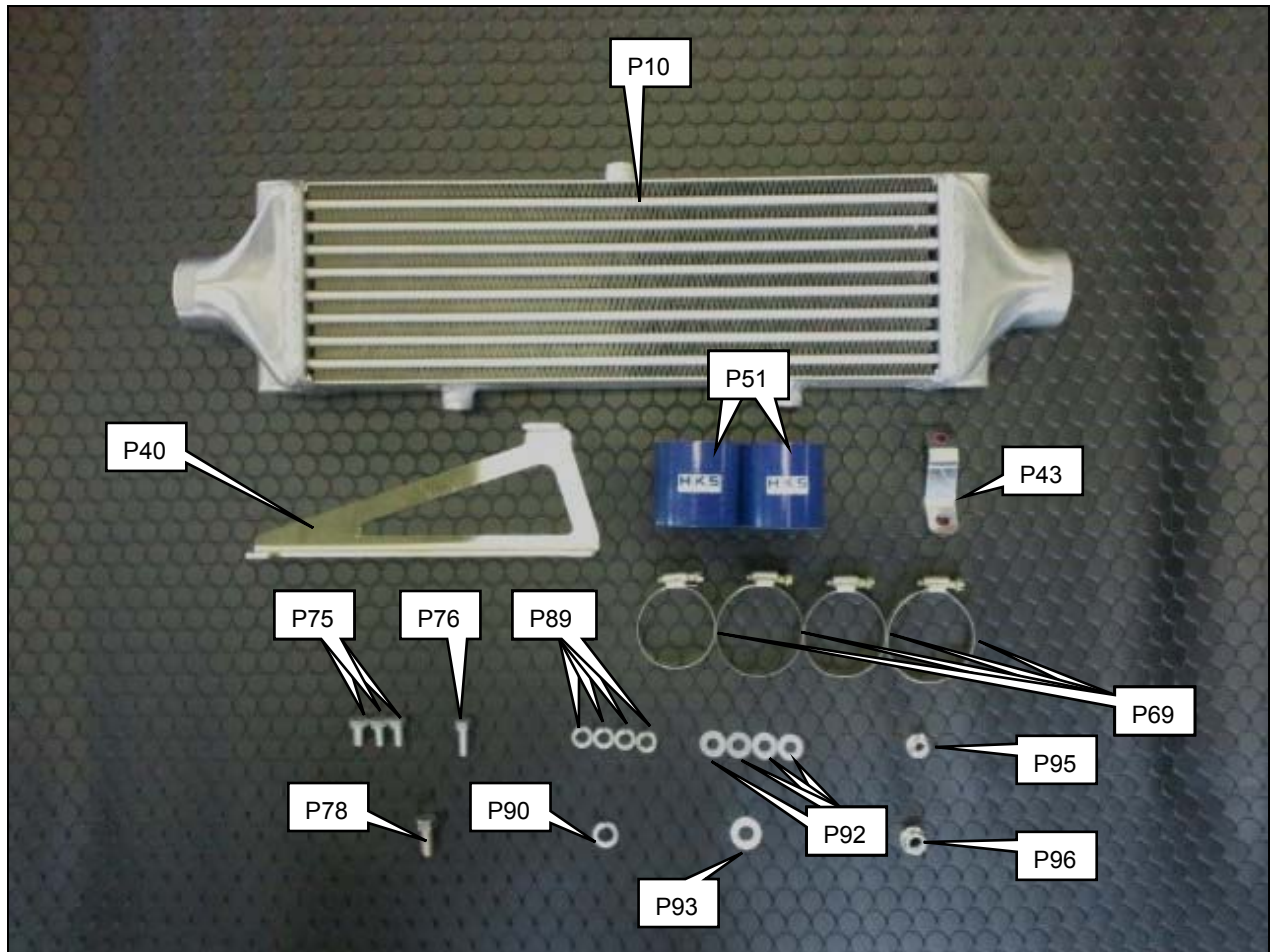
- After installing the belt and adjusting it to the specified belt tension, rotate the crankshaft a few times and readjust the belt tension.
- The belt tension will settle between 2-20 hours after installation. Once the belt settles, re-measure the tension and adjust if necessary. Periodically check the belt tension to make sure it's up to specification.
- Make sure the belt is correctly aligned with the grooves on the pulley.

Torque Spec. N·m(kgf·m) T=43(4.38)

## 4. Installation of Intercooler and Piping

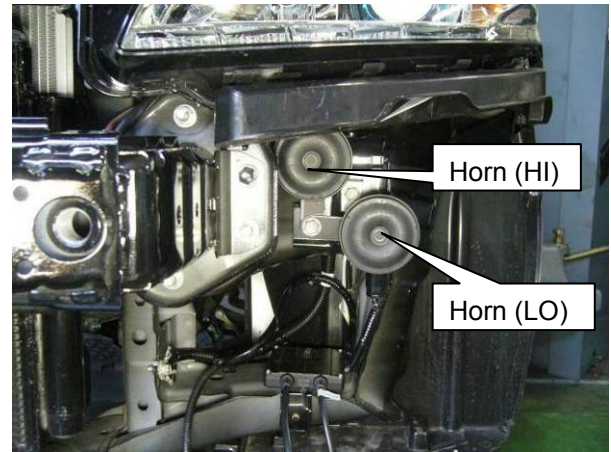
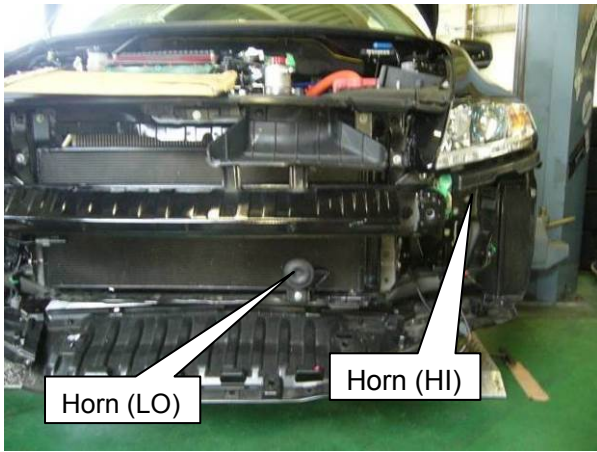
- Installation of Intercooler

### Parts List



| No. | Description             | QT |
|-----|-------------------------|----|
| P10 | Intercooler             | 1  |
| P40 | Oil Cooler Bracket No.3 | 1  |
| P43 | Intercooler Bracket     | 1  |
| P51 | Silicone Hose 50mm L=55 | 2  |
| P69 | Hose Clamp #28          | 4  |
| P75 | Hexagon Bolt M8 L=15    | 3  |
| P76 | Hexagon Bolt M8 L=20    | 1  |
| P78 | Hexagon Bolt M10 L=20   | 1  |
| P89 | Lock Washer M8          | 4  |
| P90 | Lock Washer M10         | 1  |
| P92 | Washer M8               | 4  |
| P93 | Washer M10              | 1  |
| P95 | Flange Nut M8           | 1  |
| P96 | Flange Nut M10          | 1  |

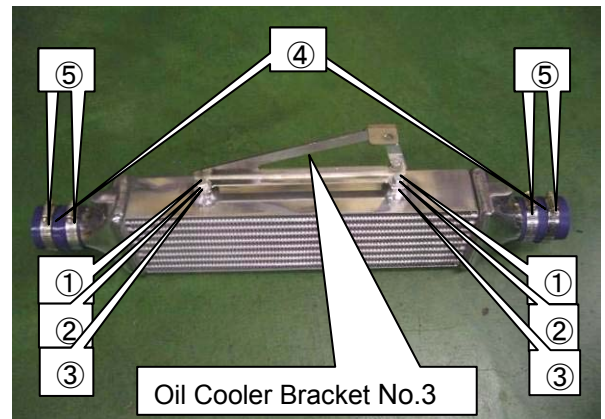
(1) Remove the factory horn (LO). Install the removed factory horn (LO) together with the factory horn (HI).



(2) Temporarily install Oil Cooler Bracket No.3 to the Intercooler using the following parts.

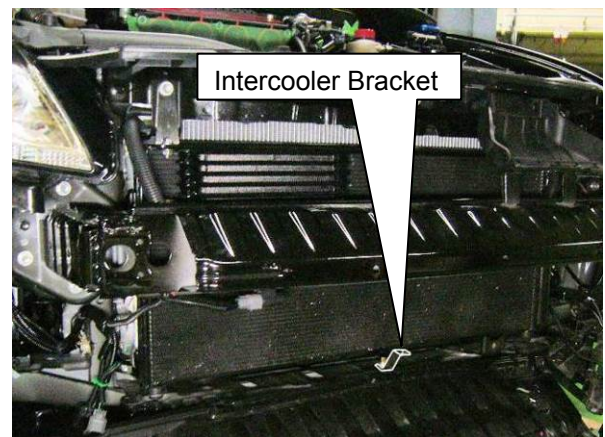
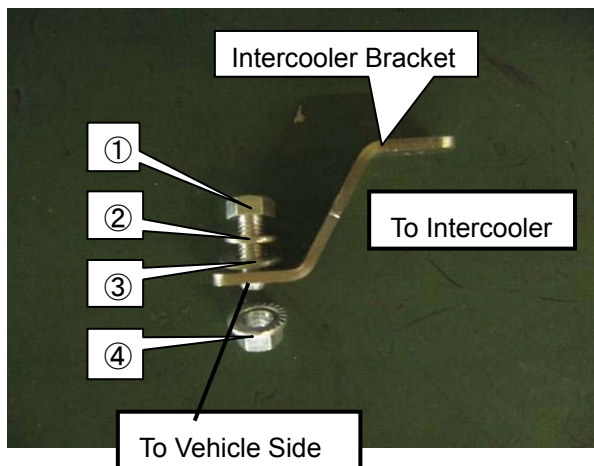
- ① Hexagon Bolts M8 L=15
- ② Lock Washers M8
- ③ Washers M8

(3) After installing the bracket, install the Silicone Hoses 50mm L=55 ④ to the Intercooler using the Hose Clamps #28 ⑤.



(4) Temporarily install the Intercooler Bracket to the vehicle using the following parts.

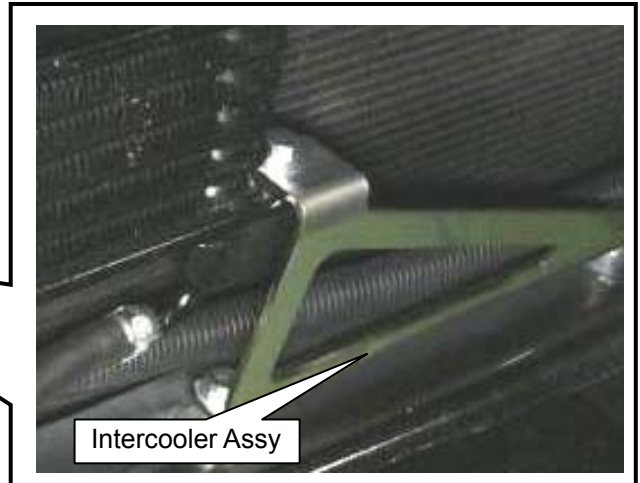
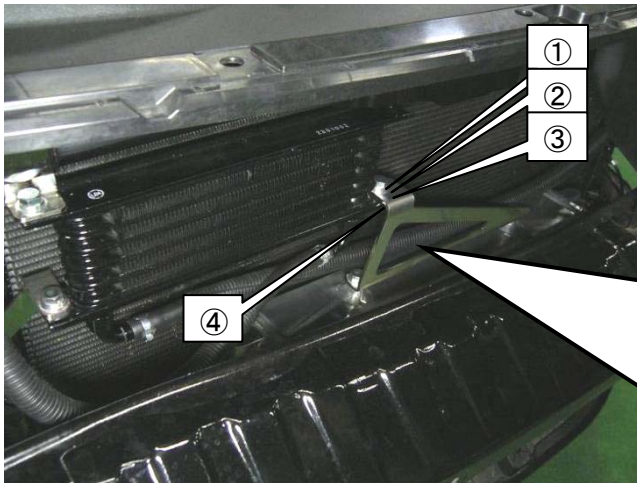
- ① Hexagon Bolt M10 L=20
- ② Lock Washer M10
- ③ Washer M10
- ④ Flange Nut M10





(5) Temporarily install the Intercooler Assy to the oil cooler using the following parts.

- ① Hexagon Bolt M8 L=20
- ② Lock Washer M8
- ③ Washer M8
- ④ Flange Nut M8



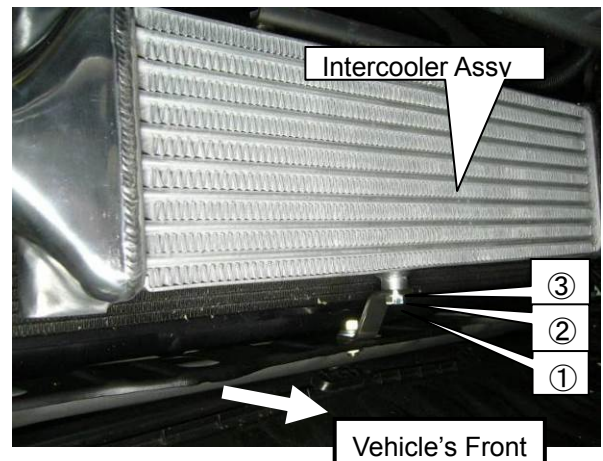
(6) After properly adjusting the position of the Intercooler Assy with enough clearance from surrounding parts, and install the Intercooler Assy to the vehicle using the following parts.

- ① Hexagon Bolt M8 L=15
- ② Lock Washer M8
- ③ Washer M8

Tighten all bolts and nuts temporarily installed.

**NOTE**

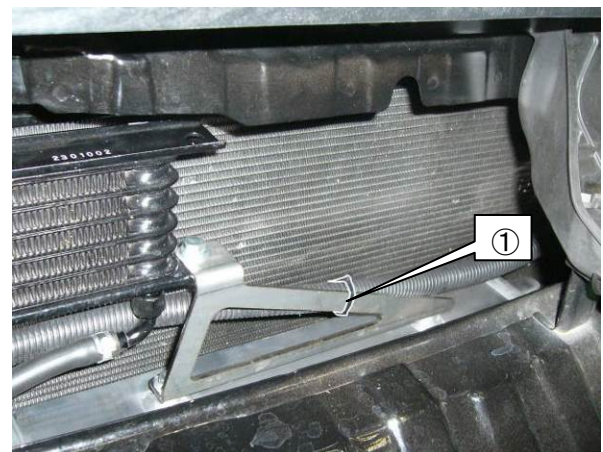
- Make sure the bottom intercooler mount (offset) is towards the vehicle side.



(7) Secure the Hose 8mm to ① in the diagram using tie wraps so the hose does not come in contact with any other parts of the vehicle.

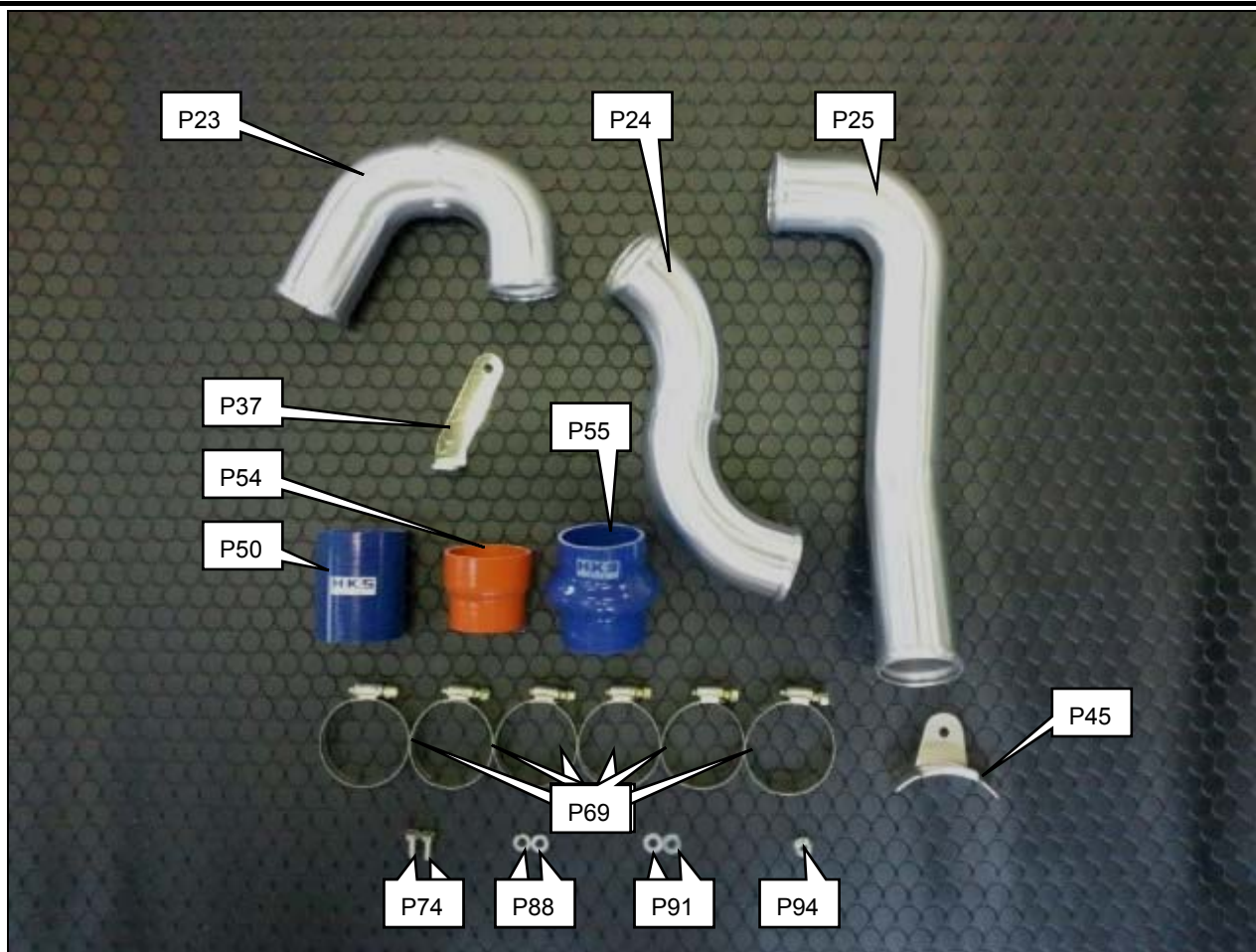
**NOTE**

- Secure the hose at other locations using tie wraps if necessary.



• Installation of Intercooler Inlet Pipe

Parts List



| No. | Description                    | QT |
|-----|--------------------------------|----|
| P23 | Intercooler Inlet Pipe No.1    | 1  |
| P24 | Intercooler Inlet Pipe No.2    | 1  |
| P25 | Intercooler Inlet Pipe No.3    | 1  |
| P37 | Intercooler Inlet Pipe Bracket | 1  |
| P45 | Universal Pipe Bracket 50mm    | 1  |
| P50 | Silicone Hose 50mm L=70        | 1  |
| P54 | Silicone Hose 45mm-50mm        | 1  |
| P55 | Cushion Hose 50mm L=75         | 1  |
| P69 | Hose Clamp #28                 | 6  |
| P74 | Hexagon Bolt M6 L=15           | 2  |
| P88 | Lock Washer M6                 | 2  |
| P91 | Washer M6                      | 2  |
| P94 | Flange Nut M6                  | 1  |

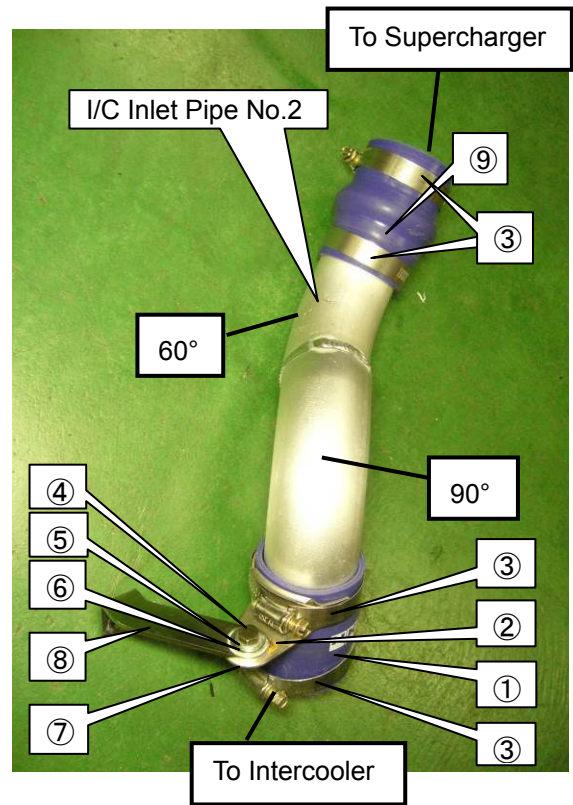
(8) Temporarily install the Intercooler Inlet Pipe Bracket (8) to Intercooler Inlet Pipe No.2 using the following parts.

- ① Silicone Hose 50mm L=70
- ② Universal Pipe Bracket 50mm
- ③ Hose Clamp #28
- ④ Hexagon Bolt M6 L=15
- ⑤ Lock Washer M6
- ⑥ Washer M6
- ⑦ Flange Nut M6

Install the Cushion Hose 50mm (9) and Hose Clamp #28 (10) to the pipe.

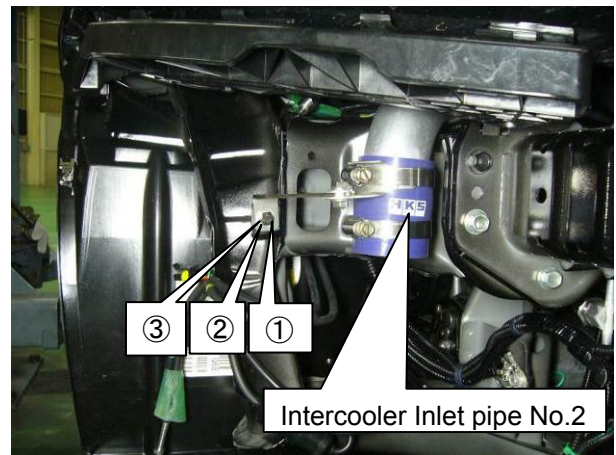
**NOTE**

• Make sure to install the Intercooler Inlet Pipe Bracket to the correct side of Intercooler Inlet Pipe No.2 referring to the diagram on the right.

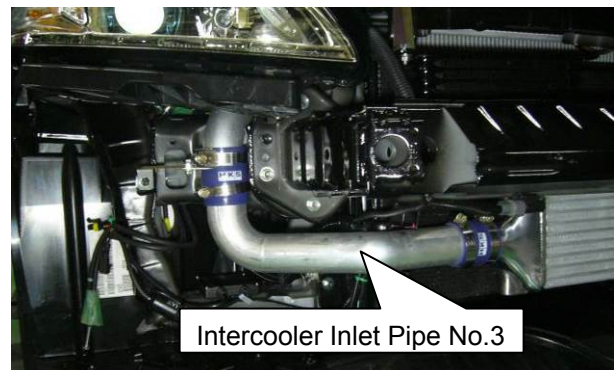


(9) Temporarily install Intercooler Inlet Pipe No.2 to the vehicle using the following parts.

- ① Hexagon Bolt M6 L=15
- ② Lock Washer M6
- ③ Washer M6



(10) Temporarily install Intercooler Inlet Pipe No. 3 to the vehicle.

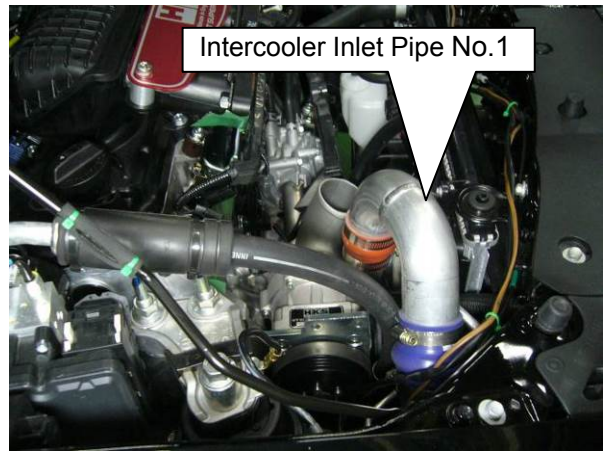
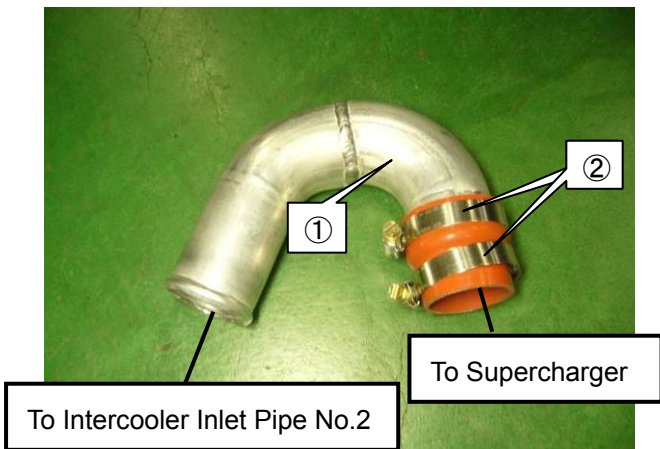




(11) Temporarily install Intercooler Inlet Pipe No.1 to the vehicle using the Silicone Hose 45mm-50mm ① and Hose Clamps #28 ②. After properly adjusting the positions of Intercooler Inlet Pipe No.1, 2 and 3, tighten all bolts and hose clamps temporarily installed.

**NOTE**

• Cut and affix the sponge sheet to locations on the pipe(s) that may come in contact with other parts of the vehicle. It may be necessary to carefully bend the A/C line for proper Inlet pipe No.1 clearance.



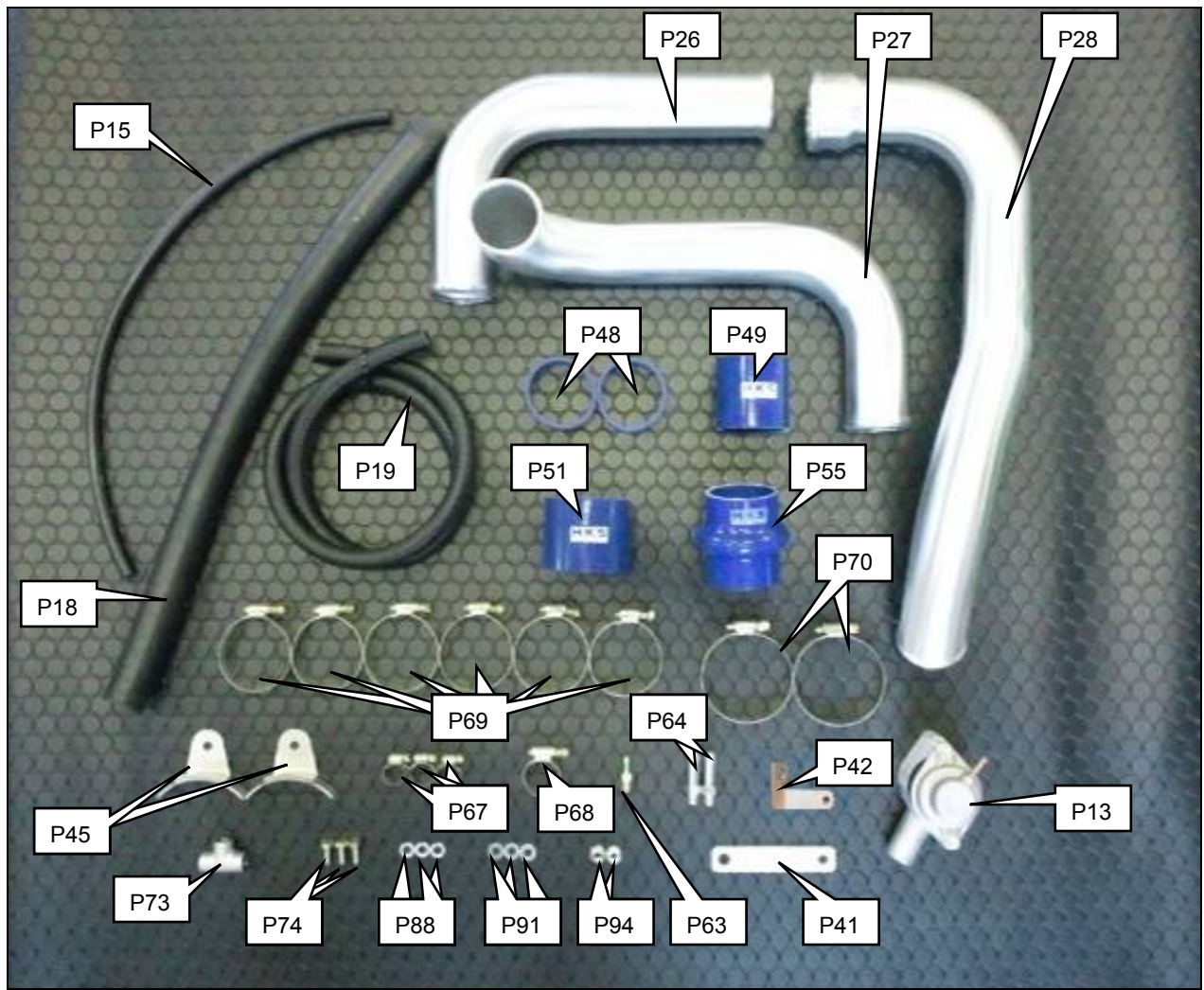
(12) Reinstall right side headlight.

**NOTE**

• Make sure intercooler pipe No.2 does not come in contact with the headlight. Adjust pipe as necessary.

• Installation of Intercooler Outlet Pipe

Parts List

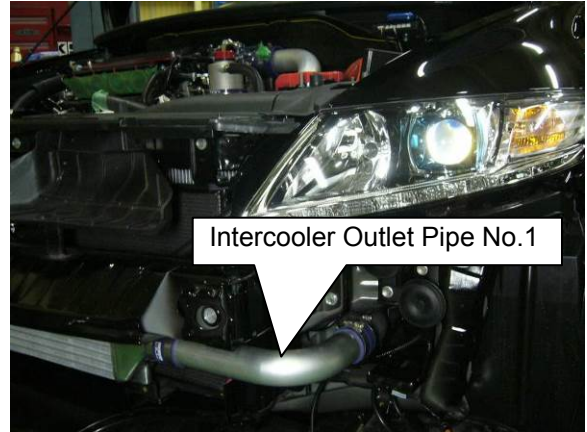


| No. | Description                          | QT |
|-----|--------------------------------------|----|
| P13 | Bypass Valve Assembly                | 1  |
| P15 | Hose 4mm                             | 1  |
| P18 | Hose 22mm                            | 1  |
| P19 | Oil Resistant Hose 10mm              | 1  |
| P26 | Intercooler Outlet Pipe No.1         | 1  |
| P27 | Intercooler Outlet Pipe No.2         | 1  |
| P28 | Intercooler Outlet Pipe No.3         | 1  |
| P41 | Intercooler Outlet Pipe Bracket No.1 | 1  |
| P42 | Intercooler Outlet Pipe Bracket No.2 | 1  |
| P45 | Universal Pipe Bracket 50mm          | 2  |
| P48 | Silicone Hose 50mm L=20              | 2  |
| P49 | Silicone Hose 50mm L=55              | 1  |
| P51 | Silicone Hose 60mm L=55              | 1  |
| P55 | Cushion Hose 50mm L=75               | 1  |
| P63 | Cushion Hose 4mm                     | 1  |
| P64 | Hose Fitting10mm                     | 2  |



|     |                       |   |
|-----|-----------------------|---|
| P67 | Hose Clamp #4         | 3 |
| P68 | Hose Clamp #16        | 1 |
| P69 | Hose Clamp #28        | 6 |
| P70 | Hose Clamp #36        | 2 |
| P73 | 3-way Connector PT1/8 | 1 |
| P74 | Hexagon Bolt M6 L=15  | 3 |
| P88 | Lock Washer M6        | 3 |
| P91 | Washer M6             | 3 |
| P94 | Flange Nut M6         | 2 |

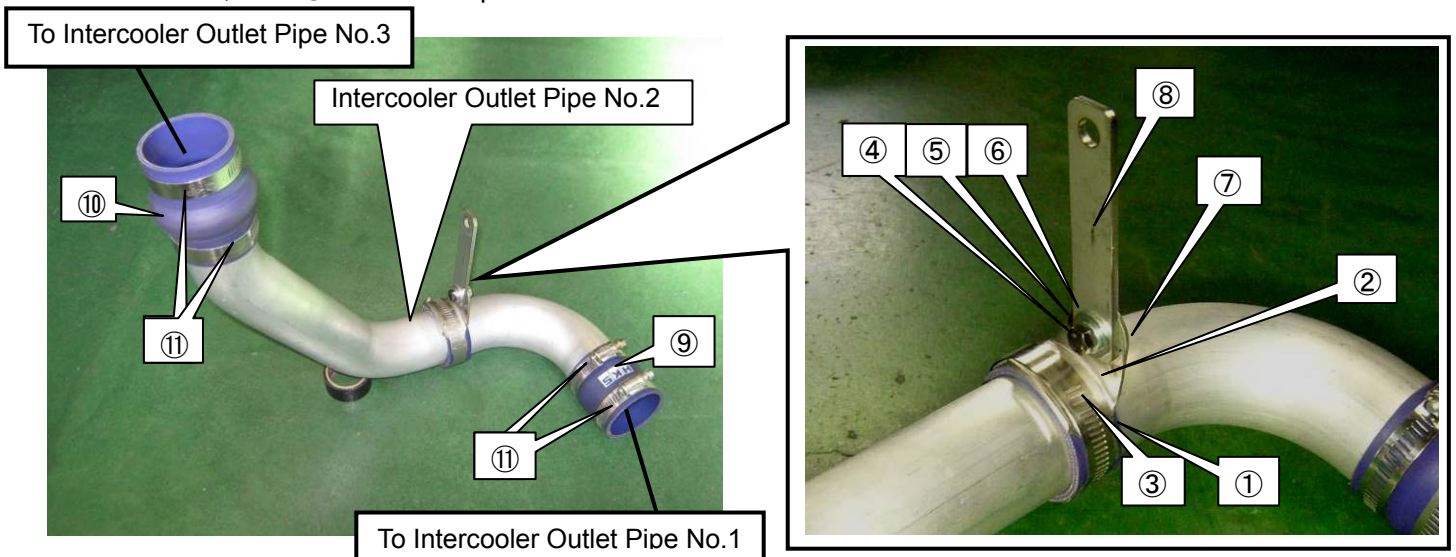
(13) Temporarily install Intercooler Outlet Pipe No.1 to the vehicle.



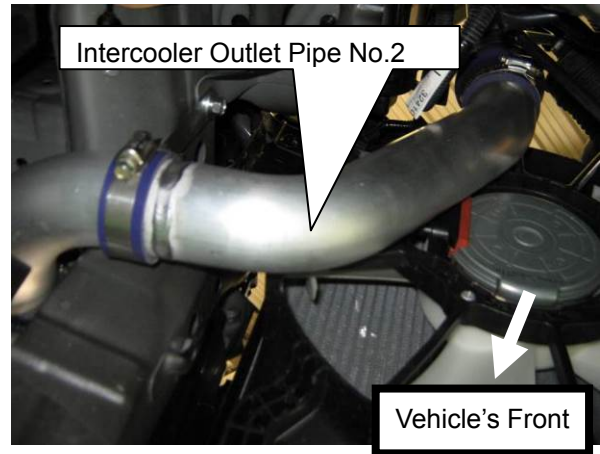
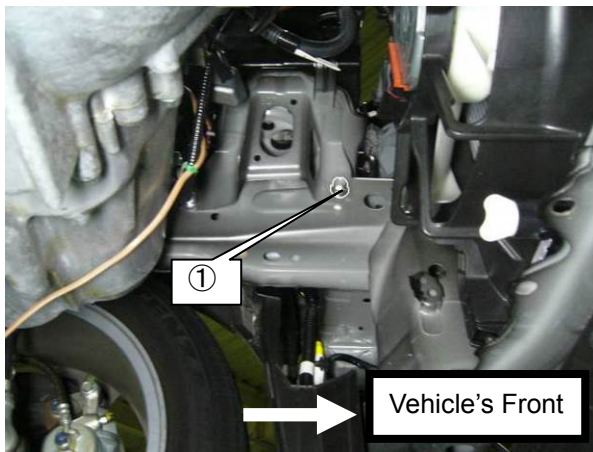
(14) Temporarily install Intercooler Outlet Pipe Bracket No.1 ⑧ to Intercooler Outlet Pipe No.2 using the following parts.

- ① Silicone Hose 50mm L=20
- ② Universal Bracket 50mm
- ③ Hose Clamp #28
- ④ Hexagon Bolt M6 L=15
- ⑤ Lock Washer M6
- ⑥ Washer M6
- ⑦ Flange Nut M6

Install the following parts to the pipe: ⑨ Silicone Hose 50mm L=55, ⑩ Cushion Hose 50mm L=75, and ⑪ Hose Clamp #28



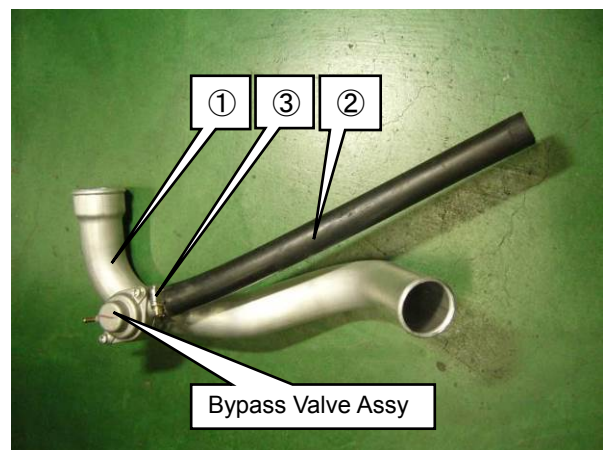
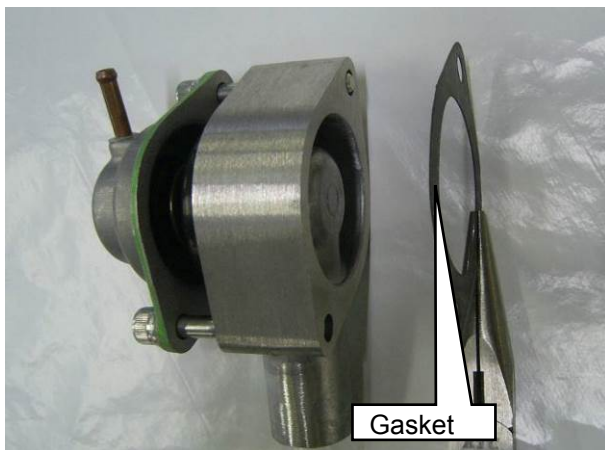
(15) Remove the bolt ① in the diagram below, and temporarily install Intercooler Outlet Pipe No.2 to the vehicle.



(16) Insert the gasket of the Bypass Valve Assy and install the Bypass Valve Assy to Intercooler Outlet Pipe No.3 ①.

(17) Cut the Hose 22mm to 420mm in length.

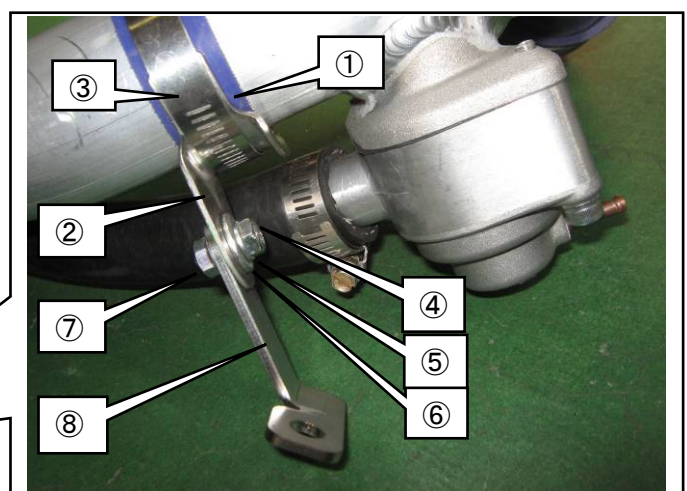
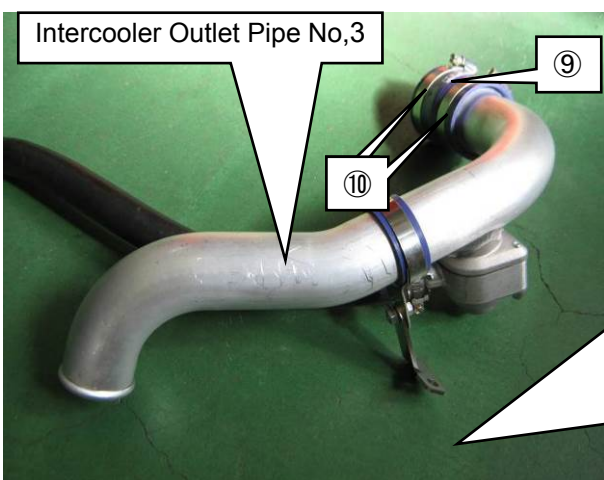
(18) Install the 420mm Hose 22mm ② and Hose Clamp #16 ③.



(19) Temporarily install Intercooler Outlet Pipe Bracket No.1 ⑧ to Intercooler Outlet Pipe No.2 using the following parts.

- ① Silicone Hose 50mm L=20
- ② Universal Pipe Bracket 50m
- ③ Hose Clamp #28
- ④ Hexagon Bolt M6 L=15
- ⑤ Lock Washer M6
- ⑥ Washer M6
- ⑦ Flange Nut M6

Install the Silicone Hose 60mm L=55 ⑨ and Hose Clamp #36 ⑩ to the pipe.





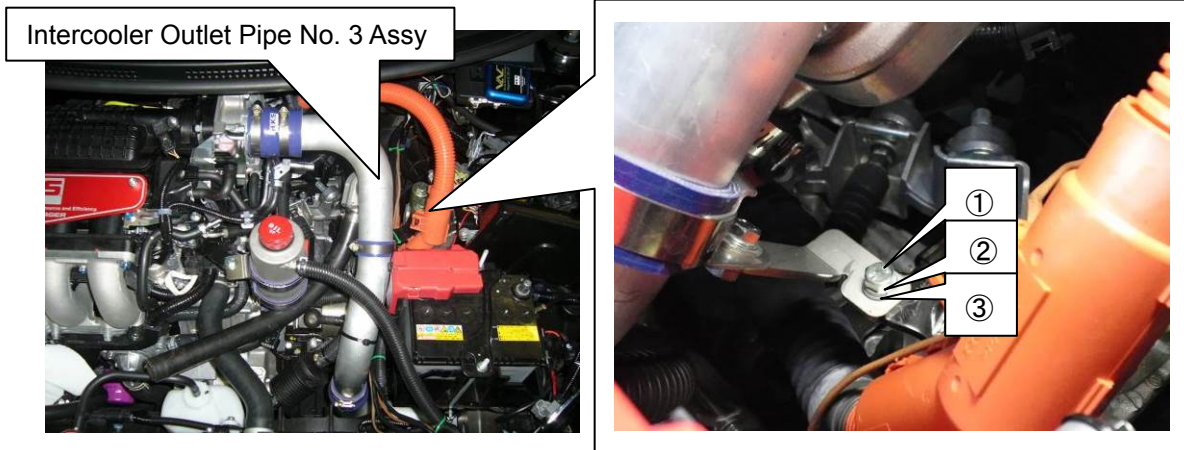
(20) Install Intercooler Outlet Pipe No.3 to the vehicle using the following parts.

- ① Hexagon Bolt M6 L=15
- ② Lock Washer M6
- ③ Washer M6

Determine the installation position of Intercooler Outlet Pipe No.1, 2, and 3.  
Tighten all bolts and nuts temporarily installed.

**NOTE**

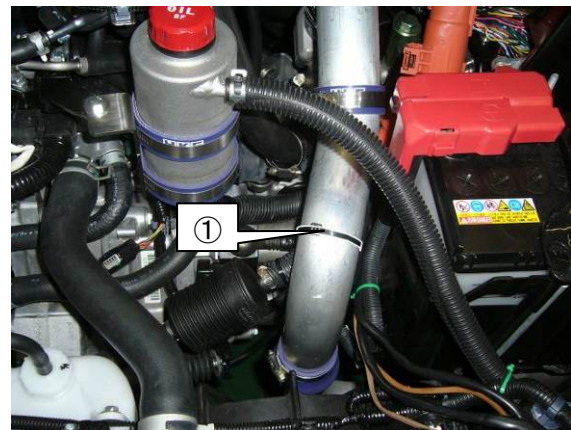
• Cut and affix the sponge sheet to locations on the pipe(s) that may come in contact with other parts of the vehicle.



(21) Secure the Hose 8mm to ① using a tie wrap so the hose does not come in contact with other parts of the vehicle as shown the diagram on the right.

**NOTE**

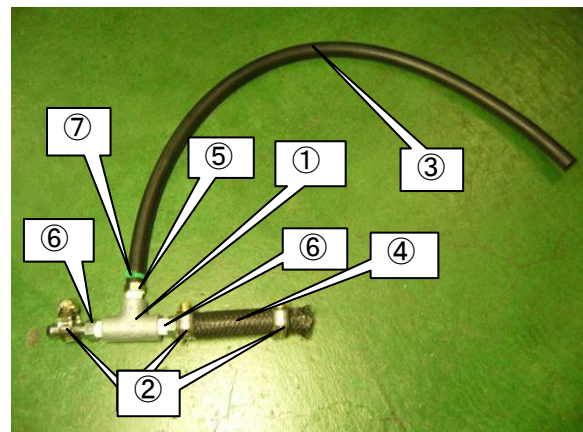
• Secure the hose at other locations using tie wraps if necessary  
• Make sure the hose does not get kinked or pinched.



(22) Cut the Oil Resistant Hose 10mm to 80mm and 620mm in length. Cut the Hose 4mm to 450mm in length.

(23) Assemble the following parts to make the bypass valve activation hose connections as shown in the diagram on the right.

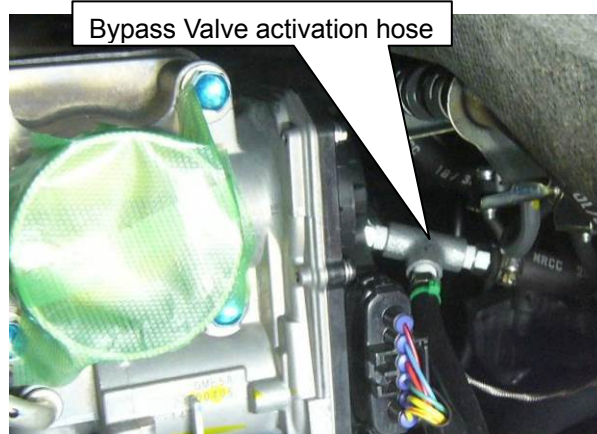
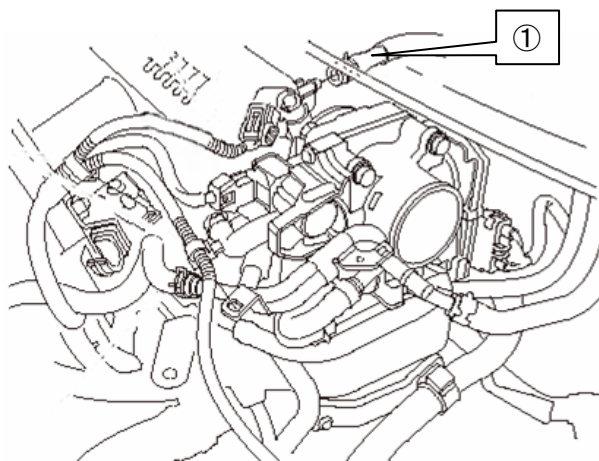
- ① 3-way Fitting
- ② Hose Clamps #4
- ③ Hose 4mm (L=450mm)
- ④ Oil Resistant Hose 10mm (L=80mm)
- ⑤ Hose Fitting 4mm
- ⑥ Hose Fittings 10mm
- ⑦ Tie Wrap



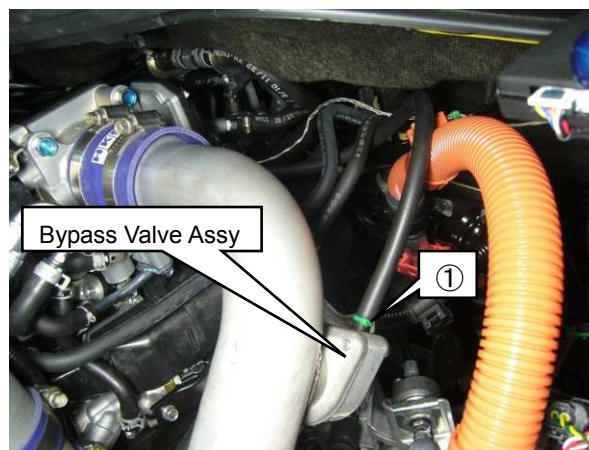
**NOTE**

• Install the hose fittings using sealing tape.

(24) Remove the factory vacuum hose, and install the 3 way fitting Assy between the intake manifold and factory vacuum hose.

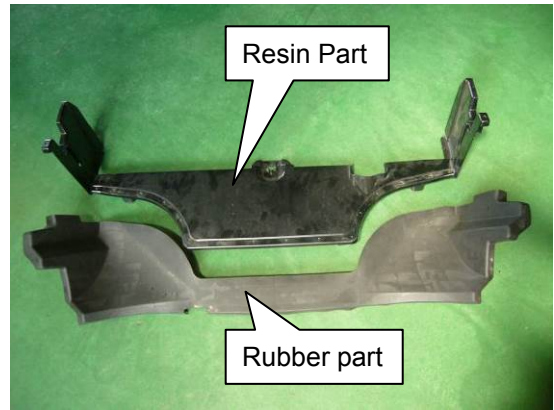


(25) Connect a 4mm rubber hose from the 3 way fitting to the Bypass Valve Assy using a Tie Wrap ①.



- **Modification of Factory Front Bumper Air Guide**

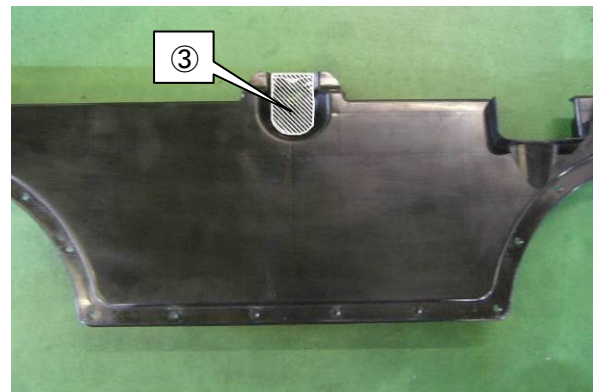
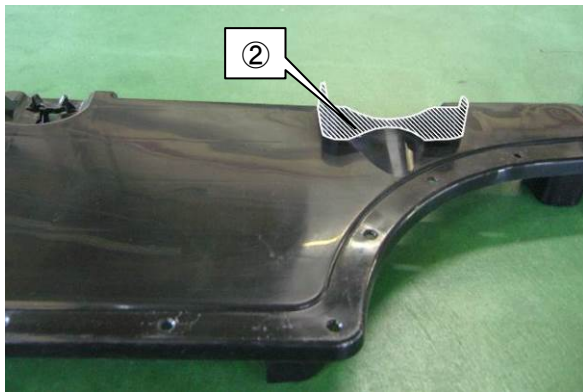
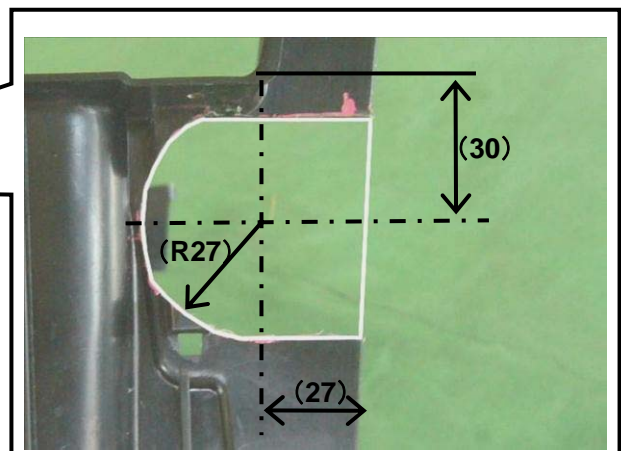
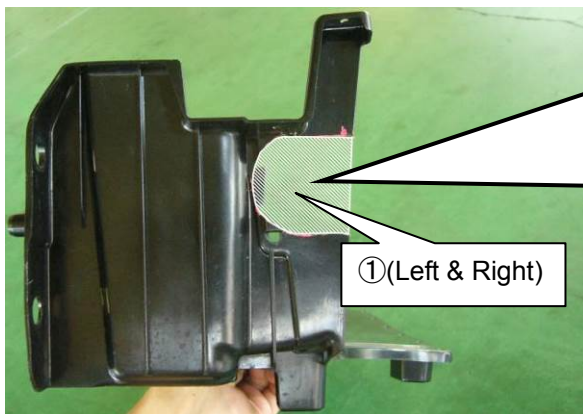
(26) Separate the removed factory front bumper air guide to the resin part and the rubber part.



(27) Cut off ① on both sides of the resin part and ②, and the shaded portion ③.

**NOTE**

• The actual sizes to cut off may be slightly different. Measure the sizes using the actual parts before cutting.



(28) Install the modified resin part of the factory front bumper air guide to the vehicle using the factory bolts and clips.

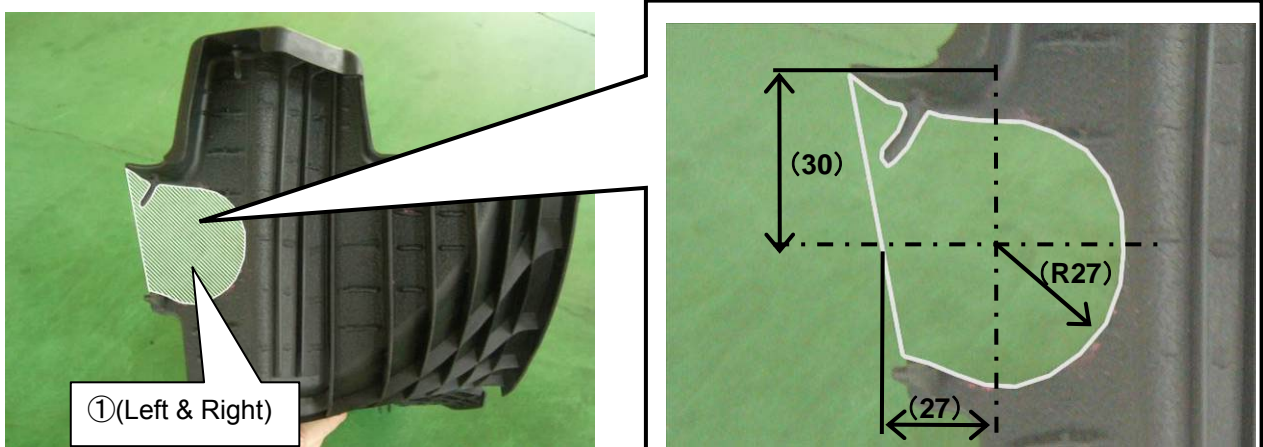


(29) Cut off the shaded portion ① on both sides of the rubber part of the factory front bumper air guide.

**NOTE**

- The actual sizes to cut off may be slightly different. Measure the sizes using the actual parts before cutting.

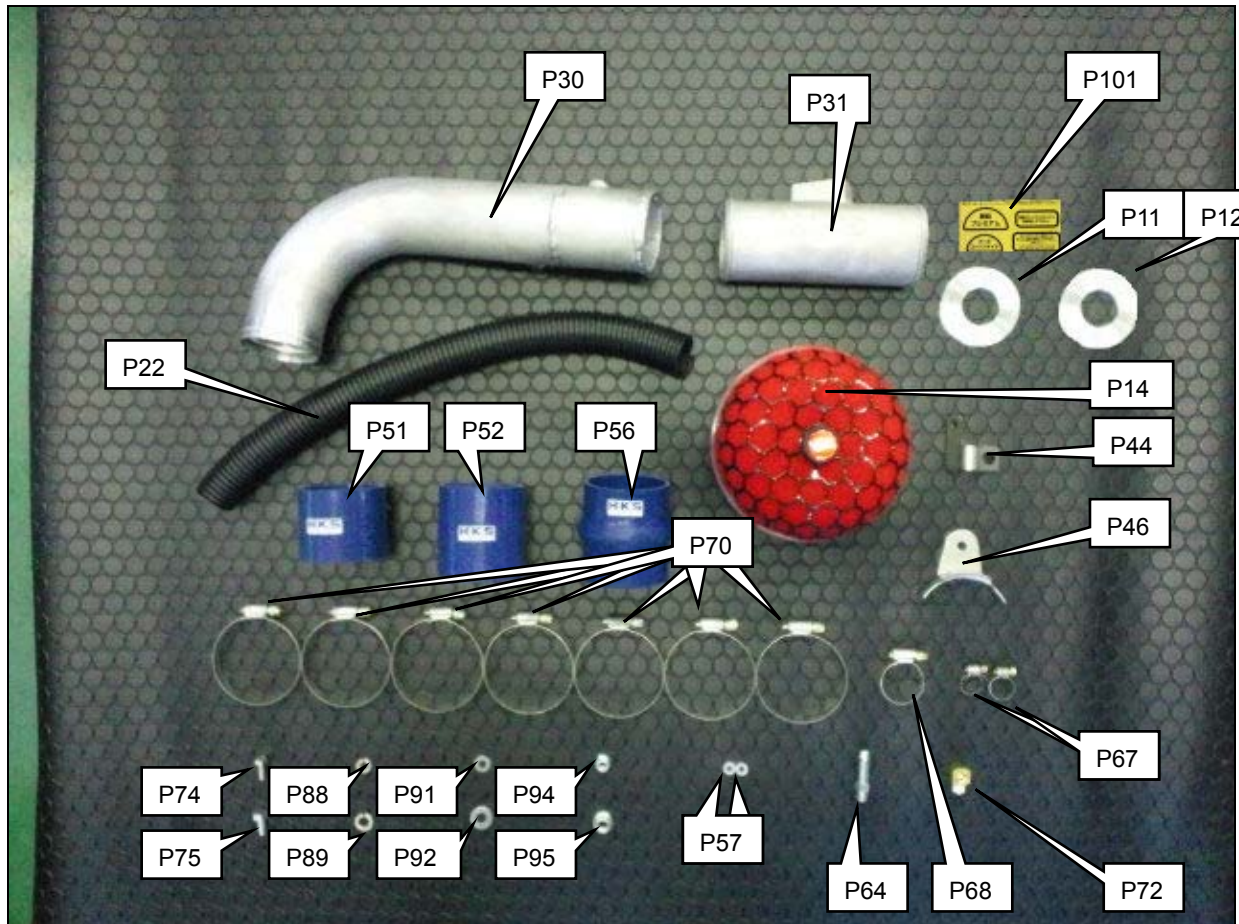
Do not cut off the rubber part to connect the resin part and the rubber part.



(30) Install the rubber part of the factory front bumper air guide to the vehicle.

• Installation of Suction Pipe

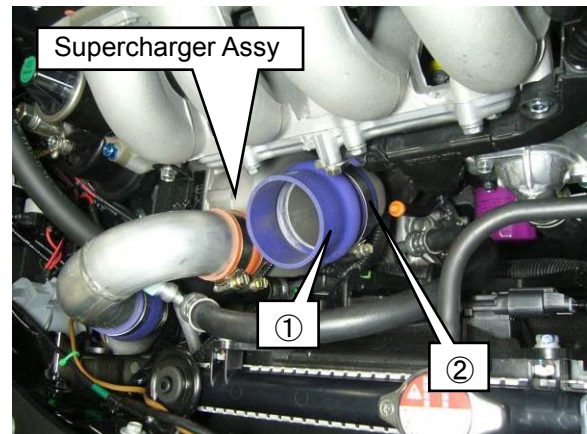
Parts List



| No. | Description                                   | QT |
|-----|---|----|
| P11 | Restrictor φ27 (For JDM Factory Fuel Spec.)   | 1  |
| P12 | Restrictor φ38 (For USDM Fuel Upgraded Spec.) | 1  |
| P14 | Air Filter 150mm-60mm Red                     | 1  |
| P22 | Corrugated Tube 22mm                          | 1  |
| P30 | Suction Pipe No.2                             | 1  |
| P31 | Suction Pipe No.3                             | 1  |
| P44 | Suction Pipe Bracket                          | 1  |
| P46 | Universal Pipe Bracket 60mm                   | 1  |
| P51 | Silicone Hose 60mm L=55                       | 1  |
| P52 | Silicone Hose 60mm L=70                       | 1  |
| P56 | Cushion Hose 60mm L=75                        | 1  |
| P57 | Spacer M4 L=1.5                               | 2  |
| P64 | Hose Fitting 10mm                             | 1  |
| P67 | Hose Clamp #4                                 | 2  |
| P68 | Hose Clamp #16                                | 1  |
| P70 | Hose Clamp #36                                | 7  |
| P72 | Elbow PT1/8                                   | 1  |

|      |                      |   |
|------|----------------------|---|
| P74  | Hexagon Bolt M6 L=15 | 1 |
| P75  | Hexagon Bolt M8 L=15 | 1 |
| P88  | Lock Washer M6       | 1 |
| P89  | Lock Washer M8       | 1 |
| P91  | Washer M6            | 1 |
| P92  | Washer M8            | 1 |
| P94  | Flange Nut M6        | 1 |
| P95  | Flange Nut M8        | 1 |
| P101 | High-Octane Decal    | 1 |

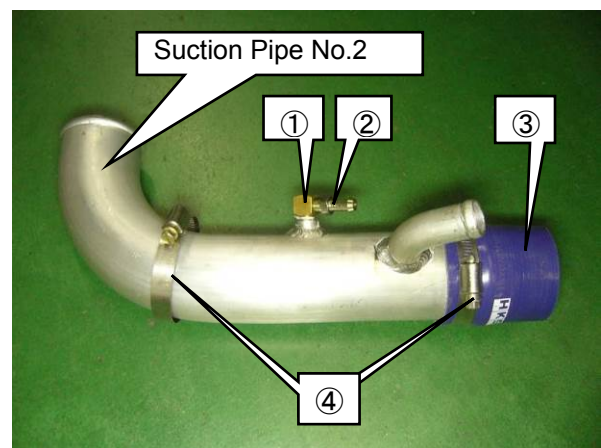
(31) Install the Cushion Hose 60mm L=75 ① to the Supercharger Assy using the Hose Clamp #36 ②.



(32) Install the Elbow ① and Hose Fitting 10mm ② to Suction Pipe No.2; then, install the Silicone Hose 60mm L=70 ③ and Hose Clamp #36 to the pipe.

**NOTE**

- Install the hose fitting using sealing tape.





(33) Install the Restrictor ① to Suction Pipe No.2.

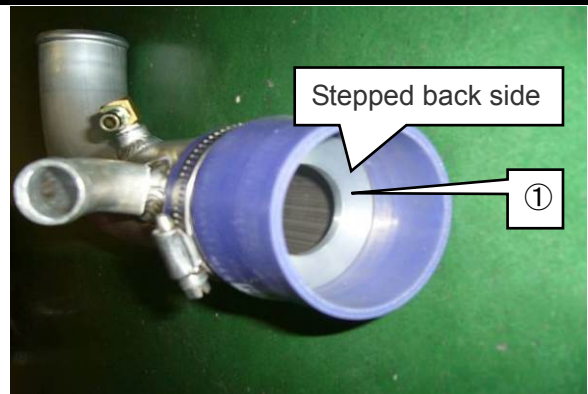
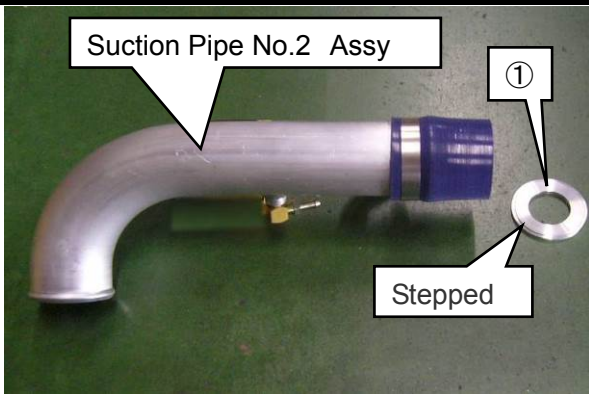
**NOTE**

- Install the stepped side of the restrictor to the pipe.
- The restrictor select a proper item by referring to the following chart.

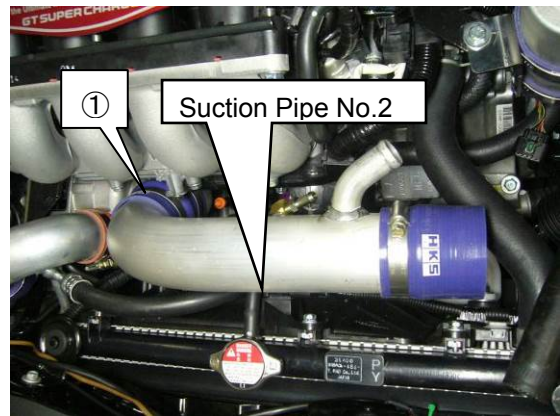
| Specifications                                      | Diameter of restrictor             |
|---|------------------------------------|
| Spec for JDM stock fuel parts (fuel pump, injector) | Φ27 (Included in this kit)         |
| Spec for JDM HKS Fuel Upgrade Kit                   | Φ34 (Included in Fuel Upgrade Kit) |
| Spec for USDM Fuel Upgrade                          | Φ38 (Included in this kit)         |

**WARNING**

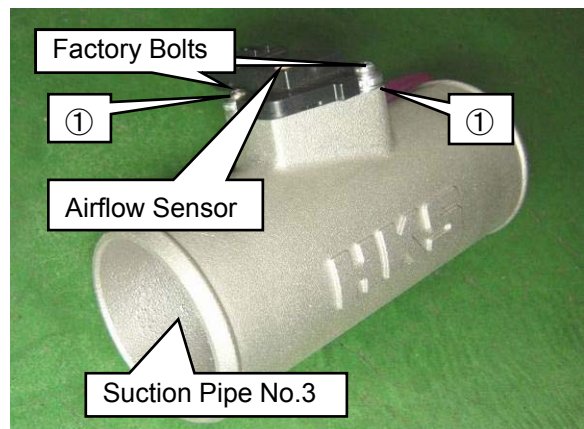
- There are two sides to the restrictor. Engine when I make a mistake or damage to the front and back were forgotten or mounting.
- The restrictor adjusts the engine output. Without the restrictor, the engine output cannot be adjusted properly which may result in engine damage.



(34) Temporarily install Suction Pipe No.2 to the vehicle connecting the Hose Clamp #36 installed in (31).

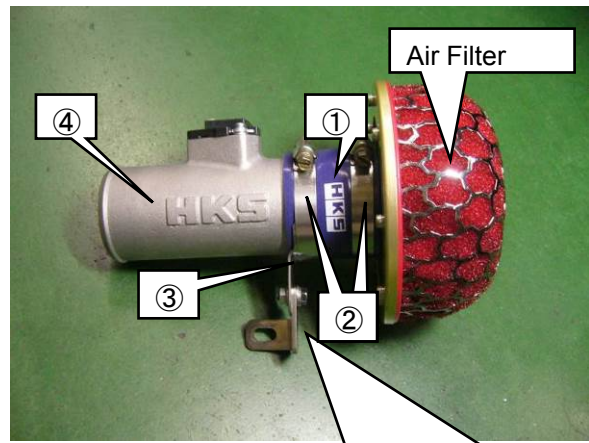


(35) Insert the Spacers M4 L=1.5 between the airflow sensor and Suction Pipe #3 and install the airflow sensor to Suction Pipe #3 using the factory bolts.



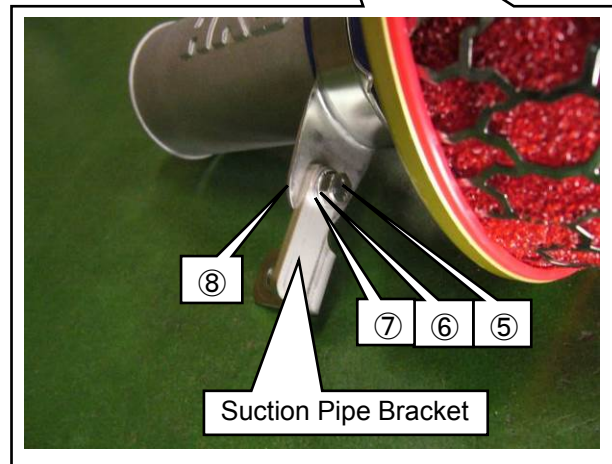
(36) Temporarily install the Air Filter to Suction Pipe No.3 ④ using the following parts.

- ① Silicone Hose 60mm L=55
- ② Hose Clamps #36
- ③ Universal Pipe Bracket 60mm



(37) Temporarily install the Suction Pipe Bracket to Suction Pipe No.3 using the following parts.

- ⑤ Hexagon Bolt M6 L=15
- ⑥ Lock Washer M6
- ⑦ Washer M6
- ⑧ Flange Nut M6



(38) Temporarily install Suction Pipe No.3 to the vehicle using the following parts.

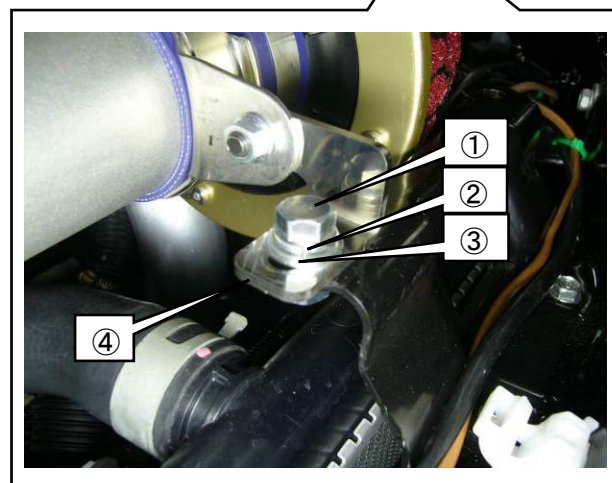
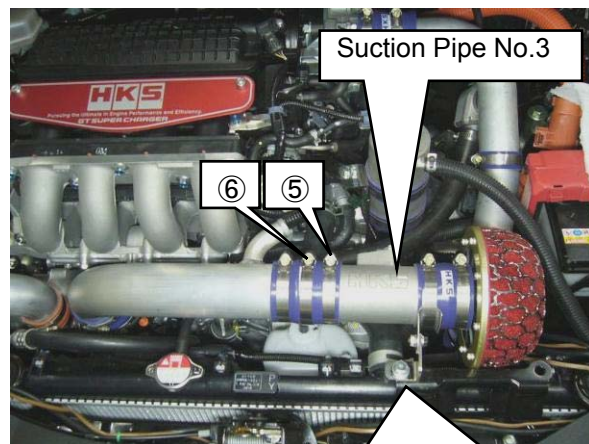
- ① Hexagon Bolt M8 L=15
- ② Lock Washer M8
- ③ Washer M8
- ④ Flange Nut M8
- ⑤ Hose Clamp #36

Determine the installation positions of Suction Pipe No.2 and 3; then tighten all Bolts, Flange Nuts, and Hose Clamps temporarily installed.

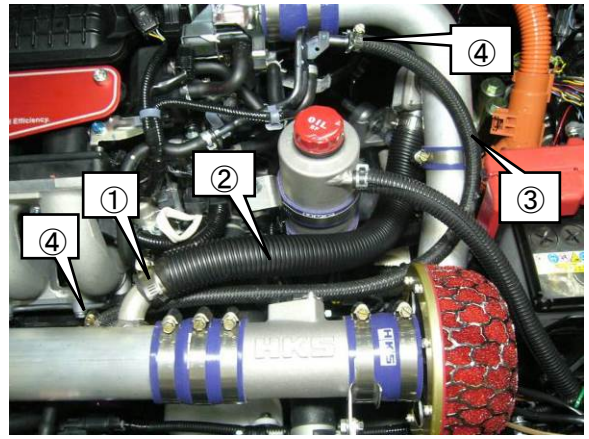
**NOTE**

- Install Suction Pipe No.3 placing the airflow sensor's installation side vertically to the ground.
- Make sure there is no gap between Suction Pipe No.2 and 3 so the Restrictor can be placed securely.

(39) Install the Hose Clamp #36 ⑥ to secure the Restrictor inside the Silicone Hose.



- (40) Connect the Hose 22mm from the Bypass Valve to Suction Pipe No.2 using the Hose Clamp #16.
- (41) Cut the Corrugated Tube 22mm to 400mm in length.
- (42) Connect the 400mm Corrugated Tube 22mm to the 420mm Hose from the vehicle.
- (43) Connect the Oil Resistant Hose 10mm ③ to the factory blow-by hose and Suction Pipe No.2 using the Hose Clamp #4 ④.
- (44) Connect the factory airflow sensor connector to the airflow sensor.
- (45) Affix the High-Octane Decal on or near the gasoline filler cap.







## **5. Reinstallation of Factory Parts**

**Refer to the factory service manual to reinstall the factory parts.**

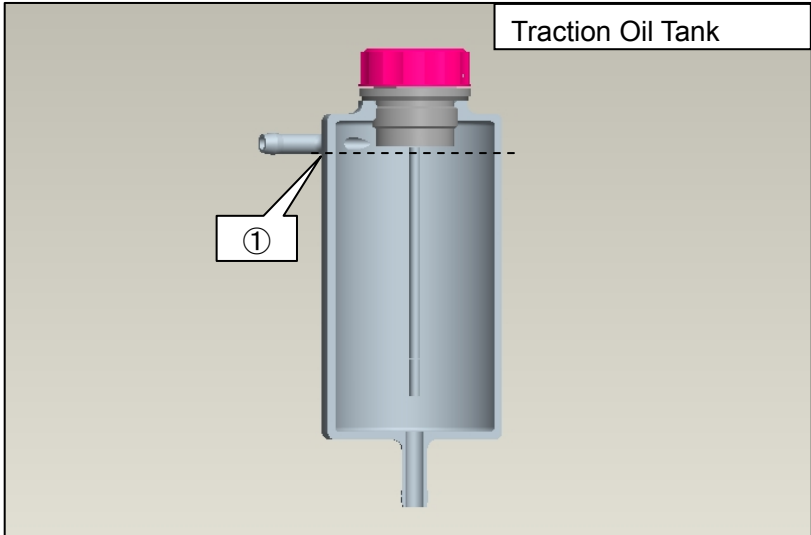
- (1) Reinstall the front bumper center upper beam.
- (2) Reinstall the front bumper.
- (3) Reinstall the front bumper center seal.
- (4) Reinstall the front bumper side cover.
- (5) Reinstall the left and right side splash shields.
- (6) Reinstall the engine under cover.

**6. Filling Traction Oil**

| Parts List  |              |    |
|---|--------------|----|
|  |              |    |
| No.   | Description  | QT |
| P4  | Traction Oil | 1  |

 **Caution** Do not allow foreign objects to mix with the Traction Oil. The internal components of the Supercharger Unit assembly are very precise and exact; foreign objects mixed with Traction Oil can lead to damage to the Supercharger Assy.

- (1) Check to make sure that there are no foreign objects in the Oil Tank. Add Traction Oil to the Traction Oil Tank (up to the dotted line in the diagram below). Close the cap properly and securely.



## 7. CONFIRMATION AFTER INSTALLATION / CHECKING TRACTION FLUID VOLUME

Check the following after the installation process is complete.

(1) Check off the following before starting the engine:

|    | Items to confirm:  | Check |
|----|--|-------|
| 1  | Make sure the hose layout is correct.                                      |       |
| 2  | Make sure the traction fluid is not leaking.                               |       |
| 3  | Make sure the installed parts do not come in contact with any other parts. |       |
| 4  | Make sure the belt is properly aligned with the grooves of the pulley.     |       |
| 5  | Make sure all bolts (especially the pulley bolts) are tightened properly.  |       |
| 6  | Make sure the Traction Oil is at the correct level.                        |       |
| 7  | Make sure hoses are not kinked or bent.                                    |       |
| 8  | Make sure all hose clamps are tight.                                       |       |
| 9  | Make sure all bolts and nuts are tightened.                                |       |
| 10 | Make sure all installed components are secured.                            |       |

(2) Prepare 80cc (2.7 oz) of Traction Oil in a beaker or small container and start the engine.

(3) Immediately after starting the engine, perform the following:

- i) Check to make sure that the oil level starts to decline, and then increase again.
- ii) Add oil from the 80cc beaker or small container, so that the Oil Tank level does not get empty. Also make sure that the Oil Tank does not overflow.

### NOTE

• There may be some unusual or unpleasant noises emanating from the Supercharger unit after starting the engine. This is normal, and this noise will go away after the Traction Oil warms up (approximately 2-3 minutes).

(4) Start the engine and perform the following checks after the engine reaches normal operating temperature:

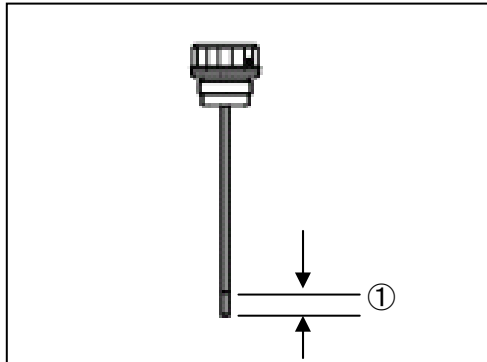
### NOTE

• Do not raise the engine RPM while the engine is warming up; let it idle.

|   | Items to confirm:   | Check |
|---|---|-------|
| 1 | Make sure the Traction Oil returns to the Oil Tank.                         |       |
| 2 | Make sure there are no leaks in the fuel, Traction Oil, coolant, or piping. |       |
| 3 | Make sure there is no excessive stress on any fuel lines or hoses.          |       |
| 4 | Make sure the installed parts do not come in contact with any other parts.  |       |



- (5) After verifying the above items, raise and keep the RPM stable at 2000RPM for 10 seconds. Immediately shut off the engine and check the Traction Oil level. The level needs to be at level ① indicated in the diagram below. If it is lower, add Traction Oil as necessary.



※ If there is excess Traction Oil remaining in the bottle, replace the cap on the bottle and store in a safe location. Always store excess Traction Oil in the original bottle.

- (6) Put the oil tank cap back on.

**The installation process is now complete.**



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