TRANSFER OIL COOLER KIT



Installation must be done by a professional. Read this manual prior to the installation.

Always have access to this manual as well as a factory service manual.

This product fits only the following vehicle.

Should the model of your vehicle not comply with the application of this product, contact the seller at your

earliest convenience

PRODUCT NAME	TRANSFER OIL COOLER KIT
PURPOSE	AUTOMOBILE PARTS
PART No.	27002-AT002
MANUAL NUMBER	E04261-T10020-00
VEHICLE	TOYOTA GR YARIS (GXPA16)
ENGINE	G16E-GTS
MODEL YEAR	2020/9 -
	[Estimated installation time] 8 hours
	【Required Transfer oil】0.8[L].
	[Separately Required Parts] Vinyl tape · Harness tape · Insulation tape ·
REMARKS	Sealing tape
	[Special tools] Crimping tool Wire stripper Nutter
	[Parts requiring modification] Radiator Upper Air Guide Plate • Radiator Air Guide RH •
	Engine Undercover Assembly
*Veene of compatible ve	biolog are as of April 2025. Diagon contact HKS Support Contar for

*Years of compatible vehicles are as of April 2025. Please contact HKS Support Center for compatibility for vehicles registered after April 2025.

REVISION HISTORY

Rev. Number	Date	Details
3-3.01	2025/4	1 st Edition

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INDEX NOTICE / ATTENTION ······· 1 1.REMOVAL OF STOCK PARTS ······ 8 2.MODIFICATION OF STOCK PARTS ······ 16 4.INSTALLATION OF OIL PUMP 5 6

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5.OIL HOSE CONNECTION ······	28
6.INSTALLATION OF PUMP HARNESS AND CONTROLLER ······	36
7.INSTALLATION OF STOCK PARTS AND START-UP CHECK	42
8.WHEN USED IN CONJUNCTION WITH HKS PRODUCTS	44
MAINTENANCE AND MANAGEMENT	45
TROUBLESHOOTING ·····	45
ABOUT AFTER-SALE SERVICES ······	45
FOR SUBSEQUENT OWNERS	45

NOTICE

Thank you for purchasing HKS TRANSFER OIL COOLER KIT. Please read this manual to ensure safe use and full functionality of the product. After installation, please follow the instructions in this manual and use the product safely. Always ask a specialist to install the product, and be sure to read and understand this manual thoroughly before installation. When installing or removing standard parts, use the maintenance manual issued by the manufacturer and this manual together. If you do not have the maintenance manual, please purchase a new one.

ATTENTION

- This manual contains precautions that must be observed to ensure the safe installation of this product and to prevent hazards or damage to the customer or third parties.
- This product is designed for automotive use only. Do not use this product for any purpose other than that for which it is intended.
- We are not responsible for any damage caused by modification or misuse of this product or its accessories by the customer or a third party.
- This product is designed for installation on stock vehicles and vehicles equipped with HKS products. We do not guarantee the function, performance, or safety of this product when installed on vehicles other than those listed above.
- This manual is subject to change without notice.
- This product, including accessories, is subject to change without notice for improvement.

SAFETY PRECAUTIONS

The following precautions for the use of this product are to prevent possible accidents and/or injuries and for proper use

proper use.

Indicates risk of serious injury and/or possible death.
Indicates risk of damage to people or large-scale damage to property. (Large-scale damage is the damage caused by a product defect. Ex. Damage to a vehicle, burnout, etc.)

WARNING

- To prevent explosion and/or fires, always:
 - Work on the vehicle in a well-ventilated area.
 - Handle any flammable objects with care.
- To prevent electrical damage/burns/fires, always:
 - Disconnect the negative terminal of the battery before beginning installation.
 - When disconnecting connectors, take extra care to avoid breaking the connectors.
- Before jacking up the vehicle, always use wheel blocks and position the jack correctly. Also, do not start working under the vehicle without using jack stands.
 - Positioning the jack incorrectly imbalances the vehicle and may damage the vehicle body.
 - Incorrect use of jack stands may result in the vehicle falling causing serious injury or possibly death.

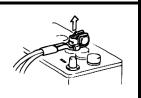
- Do not misuse this product.
 - Misuse of this product may lead to engine damage.
 - Misuse of this product may lead to loss of its original function.
- Prior to installation, make sure the engine bay temperature has cooled to approximately 40°C/104°F
 - Failure to let the engine cool down properly can lead to severe burns.
- During the work, cover the hose and pipe with a rag to prevent foreign matter from entering the hose and piping.
 - If neglected, contaminants in the piping can lead to engine damage.

BEFORE INSTALLATION

- Make sure that all of the parts listed in the Parts List are included in the kit.
- Reference the factory service manual when removing factory parts.
 If you do not have a service manual, please purchase one from the manufacturer.
- Be careful when handling this product; avoid dropping or subjecting it to excessive impacts. Failure to do so may result in product damage or improper installation.
- Use the proper tools when tightening nuts and bolts. If over-tightened, the bolts may become damaged.
- Make sure there is no oil left on connections between pipes and hoses. Wipe off all oil left on connections. The pipe may come off when boost pressure increases.
- Keep the removed factory parts in a safe place for ease of reinstallation at a later date (if necessary). It is recommended to mark the positions of the removed factory parts.
- When refilling oil, make sure to use the appropriate type of oil.

\Lambda WARNING

Disconnect the negative terminal of the battery before beginning installation to prevent electrical damage and/or shock.



PARTS LIST

NO.	PRODUCT	QUANTITY	REMARKS
P1	Cooler Pipe	1	
P2	Cooler Bracket L	1	
P3	Cooler Bracket R	1	
P4	Cooler Bracket	4	
P5	Oil Pump	1	
P6	Oil Filter	1	
P7	Pump Bracket No.1	1	
P8	Pump Bracket No.2	1	
P9	Pump Bracket No.3	1	
P10	Oil Hose 10mm L3000	1	
P11	Hose Bracket No.1	1	
P12	Hose Bracket No.2	1	
P13	Hose Bracket No.3	1	
P14	Silicone Hose 55mm L43	1	
P15	Hose Band	1	Engraving: NO.36 70-46mm
P16	Braided Tubing 1200mm	2	
P17	Corrugated Tubing 5mm L250	2	
P18	Hose Clip	8	
P19	Hose Clamp	3	
P20	Transfer Case Connector	1	
P21	Fitting AN6-10mm	1	
P22	Drain Banjo 18mm	1	
P23	Drain Banjo Bolt M18	1	
P24	PT1/8 Plug	1	
P25	Copper Washer 18.6mm t1	3	
P26	Pump Banjo 16mm	2	
P27	Pump Banjo Bolt M16	2	

P28	Copper Washer 16mm t1	4	
P29	Rubber Insulator	7	
P30	Collar 8-10mm t15	3	
P31	Spacer 8-20mm t5	2	
P32	Spacer 10-25mm t5	1	
P33	Stabilizer Bolt M10 L70 (Screw length: 31)	1	
P34	Ground Bolt	1	
P35	Flange Bolt M6 L15	4	
P36	Flange Bolt M8 L16	4	
P37	Flange Bolt M8 L25	3	
P38	Button Bolt M4 L10	2	
P39	Button Bolt M8 L15	1	
P40	Cap Bolt M8 L15	1	
P41	Washer M8 t1	1	
P42	Large Diameter Washer M6	5	
P43	Large Diameter Washer M8	3	
P44	Flange Nut M4	2	
P45	Flange Nut M6	5	
P46	Flange Nut M8	6	
P47	Pop Nut M8	1	
P48	Tie Wrap Medium	24	
P49	Tie Wrap Large	2	
P50	Tie Wrap Base	6	
P51	Pump Controller	1	
P52	Main Harness	1	
P53	Pump Harness	1	
P54	Sachet (Bullet Terminal, Sleeve, Round Terminal, Splice, Double sided tape)	1	Included with Pump Controller
P55	Installation Manual	1	
P56	Pump Controller Manual	1	

PARTS LIST

P1	P2	P3	P4
Cooler Pipe	Cooler Bracket L	Cooler Bracket R	Cooler Bracket

	FLOW	6	
P5	P6	P7	P8
Oil Pump	Oil Filter	Pump Bracket No.1	Pump Bracket No.2

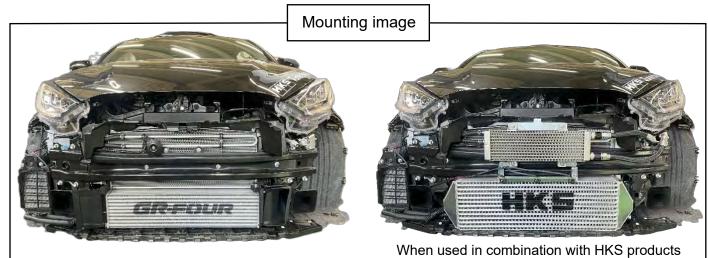
CH O	Ó		8
P9	P10	P11	P12
Pump Bracket No.3	Oil Hose	Hose Bracket No.1	Hose Bracket No.2

		anne Binn	- MARTIN ALE TO A
P13	P16	P20 Transfer Case	P22
Hose Bracket No.3	Braided Tubing	Connector	Drain Banjo 18mm

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P23	P26	P27	P29
Drain Banjo Bolt M18	Pump Banjo 16mm	Pump Banjo Bolt M16	Rubber Insulator

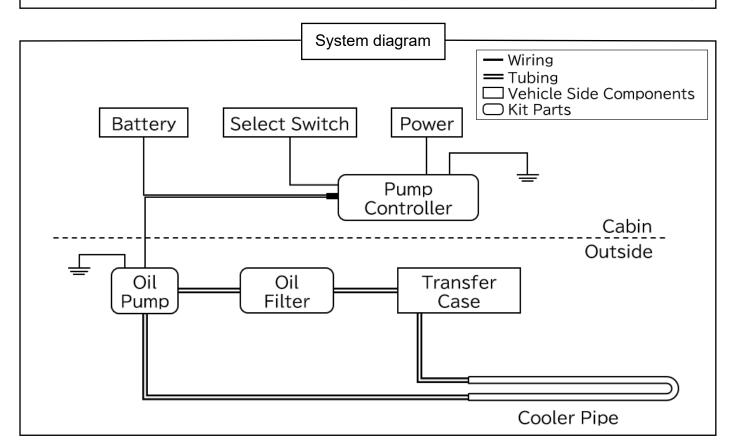
P30 Collar	P31 Spacer	P32 Spacer	P50
8-10mm t15	8-20mm t5	10-25mm t5	Tie Wrap Base

P51	P52	P53
Pump Controller	Main Harness	Pump Harness



When installed separately

(The Transfer Cooler sits behind the Oil Cooler)



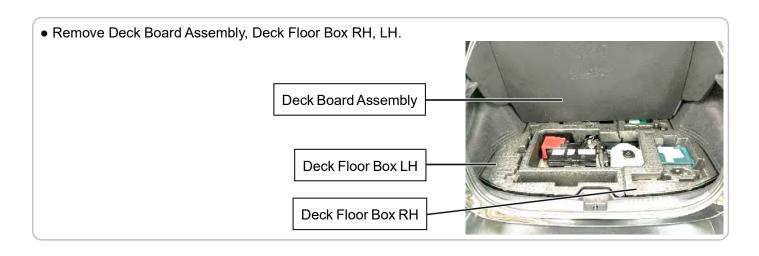
1. REMOVAL OF STOCK PARTS

Be Sure to work according to the maintenance manual and instruction manual. Be careful not scratch the body of the vehicle

The photo of the stock parts removed is a vehicle from April 2024 onwards.

use masking tape, etc. if necessary.

• Remove Cable Terminal from Negative Terminal of the Battery.



Remove Bench Type Rear Seat Cushion Assembly.



• Remove Shift Knob.



- Remove Console Box Assembly.
- Remove the select switch connector.
 Advice
 When putting back the interior, connect Select Switch
 Wire to Main Harness of the kit before returning it.

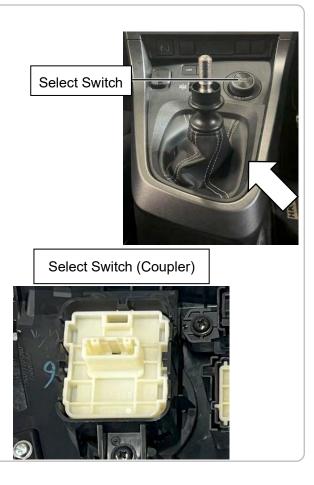
Please use without connection for vehicles without Transfer Protection Control Cancel Program

(4WD mode switching will not be possible).

Select Switch is removed together with Console Box Assembly.



• Remove Console Box LWR.





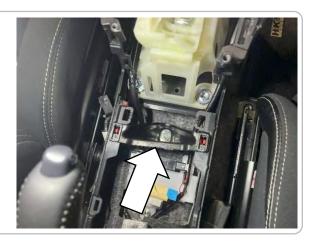
• Remove Console Rear End Panel SUB-ASSY.



• Remove Console Panel SUB-ASSY UPR RR.



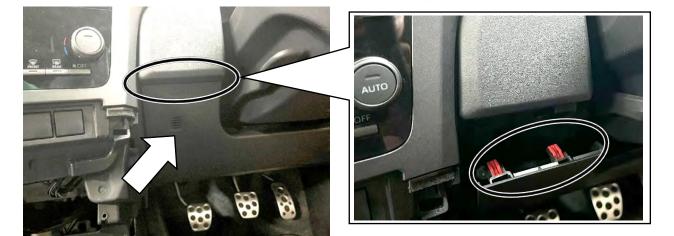
• Remove Console Box Bracket LWR.



• Remove Console Box Assembly RR.



• Remove the two claws of the Instrument Panel Finish Panel Assembly LWR.



• Remove Instrument Cluster Finish Panel CTR LWR.



Remove Instrument Cluster Finish Panel SUB-ASSY CTR.



• Remove Switch Hole Base SUB-ASSY.



• Remove Front Door Scuff Plate LH.



• Remove Cowl Side Trim Board LH.



• Remove Glove Compartment Door Assembly.



• Remove the right front wheel assembly.

• Remove Front Bumper Assembly.



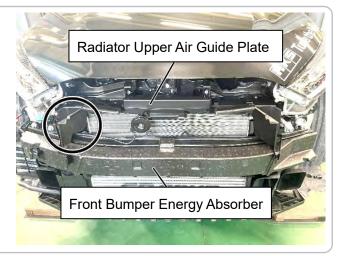
• Remove Radiator Upper Air Guide Plate,

Front Bumper Energy Absorber.

*For cars equipped with HKS ENGINE OIL COOLER, Front Bumper Energy Absorber has already been removed.

Advice

The circled part of Radiator Upper Air Guide Plate will be processed in the later work.

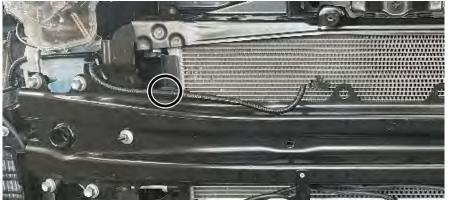


• Remove Horn Assembly.

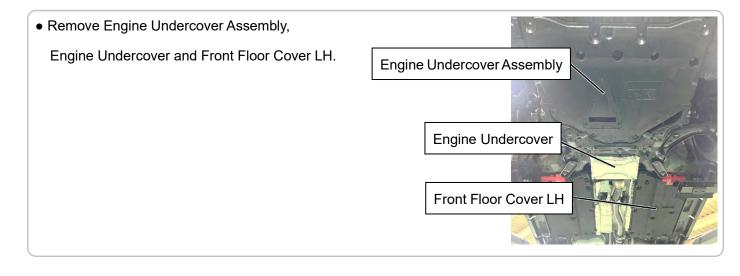
%Also remove it if the car is equipped with the HKS ENGINE OIL COOLER.

• Remove the clip on the Horn Harness indicated by the circle.





Remove Radiator Air Guide RH.		
※In the case of a car equipped with an HKS no work is required because it has already		
Remove Front Bumper Reinforcement.		
Remove Radiator Air Guide RH. Advice The parts indicated by circles will be process	ed in later work.	

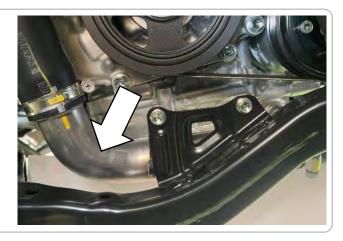


• Remove the four screws on the Front Fender Liner RH.

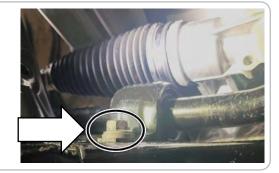
• Remove Engine Undercover RH.



• Remove Air Tubing.



 Remove the bolt that secures the Stabilizer Bracket on the right front.
 Advice
 Only remove the bolt shown in the image.



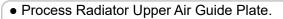


2. MODIFICATION OF STOCK PARTS

In order to avoid interference with the hose,

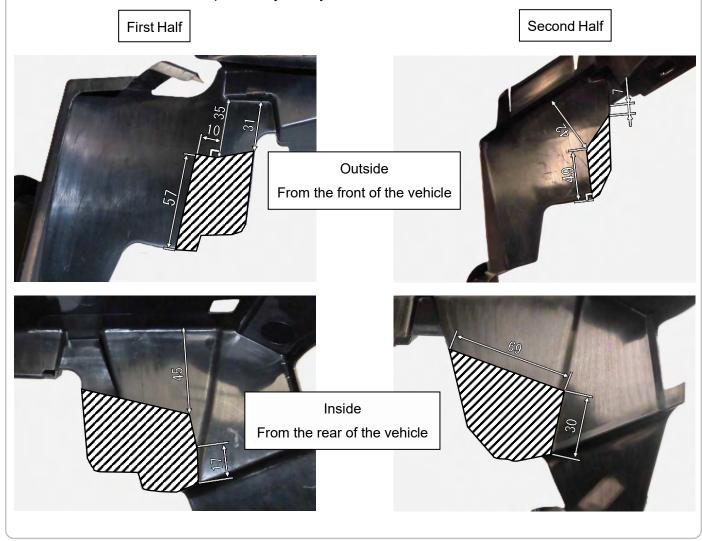
stock parts are processed.

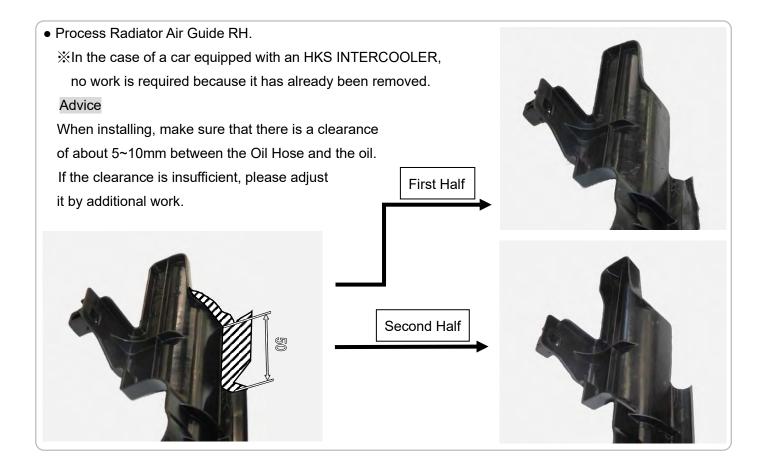




Advice

When installing, make sure that there is a clearance of about 5~10mm between the Oil Hose and the oil. If the clearance is insufficient, please adjust it by additional work.





• Install Radiator Air Guide RH, Front Bumper Reinforcement.

Tightening torque N·m(kgf·m)

•Bolt M10:T=67(6.8)

•Nut M6:T=7(0.7)

• Process Engine Undercover Assembly. Advice

When installing, make sure that there is a clearance of about 5~10mm between the Oil Hose and the oil. If the clearance is insufficient, please adjust it by additional work.

[In the case of GR Cooling Engine Undercover (NACA Duct)]

There is no need for processing.

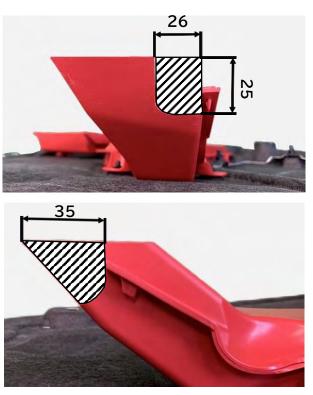
[In the case of GR Yaris Stock Undercover]



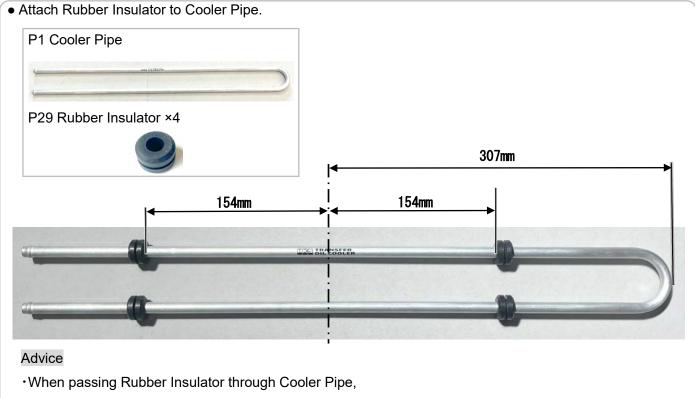


[In the case of GR Cooling Engine Undercover]





3. INSTALLATION OF OIL COOLER PIPE



- wet it with water or other liquids to make it easier to pass.
- Attach Cooler Bracket to the groove of Rubber Insulator.



Install Cooler Bracket.

Attach the installed Cooler Brackets L and R so that they are sandwiched between two pieces each.



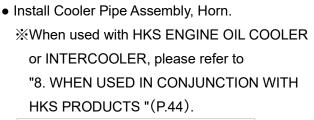
P38 Button Bolt M4 L10 ×2 P44 Flange Nut M4 ×2

Tightening torque N⋅m(kgf⋅m)

•Button Bolt M4:T=2(0.2)

Advice

•Button Bolt M4 is passed through the Cooler Bracket by pressing Cooler Bracket hard against Rubber Insulator and coaxing the bolt holes.



P35 Flange Bolt M6 L15 ×4

P42 Large Diameter Washer M6 ×4

P45 Flange Nut M6 ×4

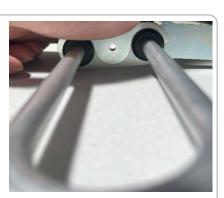
Tightening torque N·m(kgf·m)

Flange Bolt M6:T=7(0.7)

Advice

- •Adjust the position and tighten the bolt so that it is in the center of the hole in the Front Bumper Reinforcement.
- Install the Horn so that it does not come into contact
 with the Front Bumper Reinforcement.









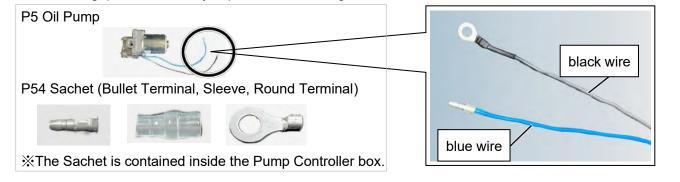
4. INSTALLATION OF OIL PUMP

Attach a Bullet Terminal and Round Terminal to Oil Pump Harness.

Thread the Sleeve for Bullet Terminal the blue wire and then crimp Bullet Terminal.

Crimp a Round Terminal to the black wire.

After caulking, protect with Vinyl tape or Shrink tubing.

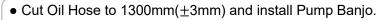




• Secure the Oil Pump Harness (blue wire) to the pump.

P49 Tie Wrap Large









• Attach Braided Tubing to Oil Hose.

Secure the Braided Tubing with Vinyl tape at 100 mm (± 5mm) at the exposed part of the hose without the Pump Banjo attached, and fix it in close contact with the Oil Hose before fixing it in the opposite direction.

P16 Braided Tubing



Advice

 If the length of the hose exposed part is not adjusted, fix it with Vinyl tape so that it does not get caught between the hose and the Hose Clip.



• Attach the Oil Hose to the Oil Pump.







• Cut Oil Hose to 170mm(±3mm) and install Drain Banjo. Attach Silicone Hose to Oil Filter



• Attach Silicone Hose to Oil Filter

P6 Oil Filter

P14 Silicone Hose



 Attach it to the Oil Filter by shifting the direction of the Banjo of each Oil Hose by about 45 degrees.

P18 Hose Clip ×2



Advice

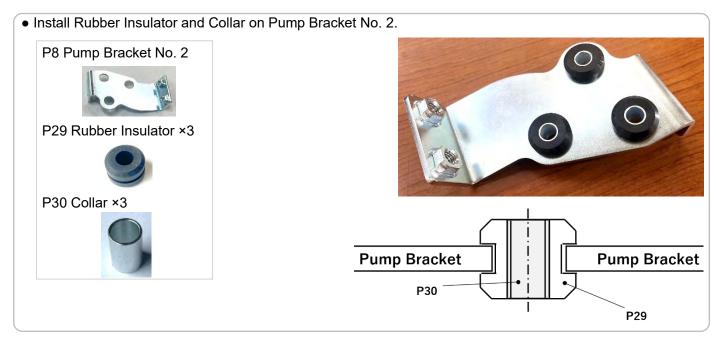
·Adjust the direction of the banjo on the

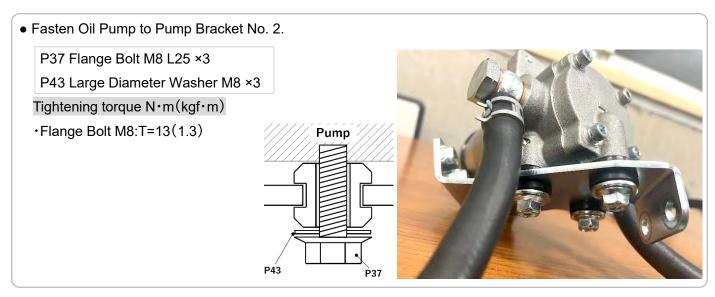
Drain Banjo side so that there is no twist in

the hose when attaching the Drain Banjo to the Transfer.











Attach the Pump Bracket No. 1 to the frame screw.



• Attach the Oil Pump

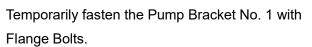


Place the Oil Pump on top of the Cross Member through the Transfer Case and the Cross Member. Advice

•When installing Pump, mask Pump and the vehicle side of the Pump to avoid interference with the engine and the vehicle.

Advice

•When installing Pump on the car body, it is possible to insert it smoothly by twisting it in from the side with Pump facing sideways as shown in the figure.

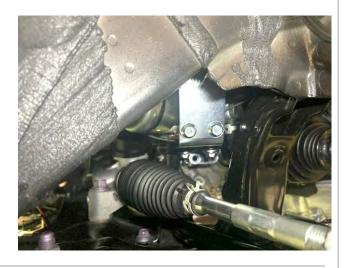


P36 Flange Bolt M8 L16 ×2

Advice

•Tighten the Pump Bracket No. 3 after installing.



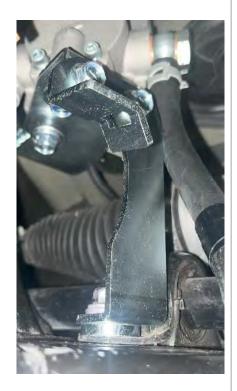


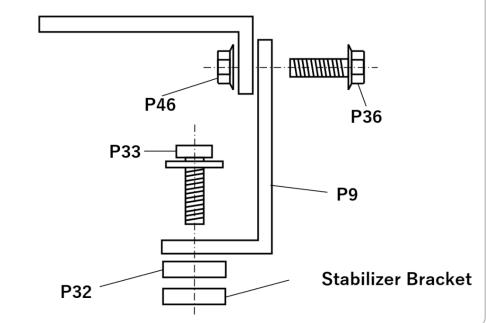
Install the Pump Bracket No. 3. After temporary fastening, adjust the position and complete the main tightening. P9 Pump Bracket No. 3

P32 Spacer 10-25mm P33 Stabilizer Bolt M10 P36 Flange Bolt M8 L16 ×2 P46 Flange Nut M8 ×2

Tightening torque N⋅m(kgf⋅m)

- •Stabilizer Bolt M10:T=52(5.3)
- •Flange Bolt M8:T=16(1.6)





5. OIL HOSE CONNECTION

• Cut Oil Hose to 1300mm(±3mm) and install Fitting.





• Attach Braided Tubing to Oil Hose.

Secure the Braided Tubing with Vinyl tape at 100 mm (± 5mm) at the exposed part of the hose without the Pump Banjo attached, and fix it in close contact with the Oil Hose before fixing it in the opposite direction.

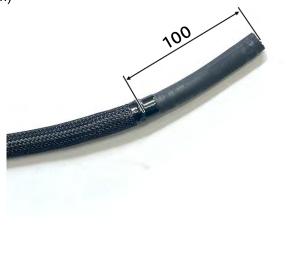
P16 Braided Tubing



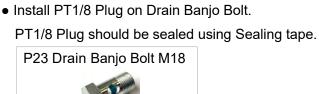
Advice

 If the length of the hose exposed part is not adjusted, fix it with Vinyl tape so that it does not get caught between the hose and the Hose Clip.

Attach the Oil Hose to the Transfer Case Connector.
 Tilt the Oil Hose to the rear of the vehicle and temporarily stop it.









• Fix Oil Filter to Pump Bracket No. 3.

Adjust the screw part of the Hose Band so that it is in the position of the image.

Install the Oil Filter so that it is in close contact with the Pump Bracket No. 3.

P15 Hose Band



Tightening torque N∙m(kgf∙m) Hose Band: T=4 (0.4)

Advice Align the installation with the position shown.



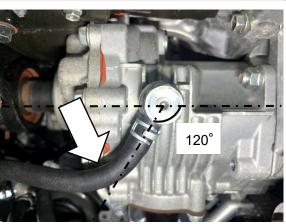


 Attach the Drain Banjo to the Transfer.
 Due to the oscillation of the Engine, ensure that the clearance between the Transfer Case and the Oil Hose indicated by the arrow is at least 5mm.

P25 Copper Washer 18.6mm ×2



Tightening torque N∙m(kgf∙m) •Drain Banjo Bolt M18:T=39(4.0)





• Attach Hose Clamp to Hose Bracket No. 1.



• Temporarily attach Hose Bracket No. 1.

P40 Cap Bolt M8 L15 P41 Washer M8

P46 Flange Nut M8







Advice

•Attach it through Bolts and Washers to the holes that are open from the underside of the Cross Member.

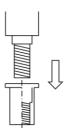
• Attach the Pop Nut to the Cross Member.



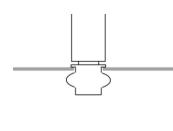


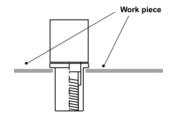
How to use Pop Nuts

 Press Pop Nut against the mandrel of the Nutter.



③Adhere Pop Nut to the workpiece, pull the trigger of Nutter, and fasten Pop Nut.

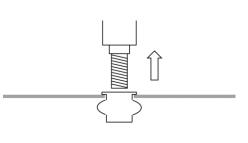




②Insert Pop Nut deep into the mandrel and insert

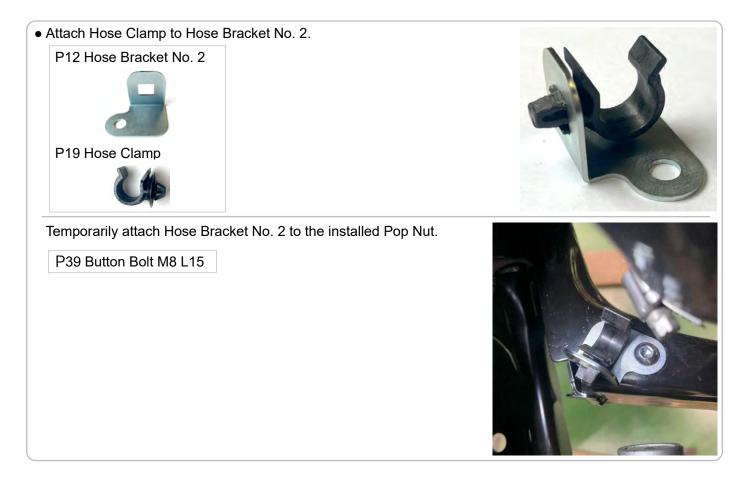
Pop Nut into the lower hole of the workpiece.

④Remove Nutter.

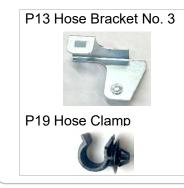


• Install the Air Tubing. (Stock Parts)





• Attach Hose Clamp to Hose Bracket No. 3.



• Connect Cooler Pipe to Oil Hose.

Place the two hoses side by side and Clamp the Hose from the Transfer.

Leave the Hose Bracket No. 3 in temporary place.

P42 Large Diameter Washer M6

P45 Flange Nut M6

Advice

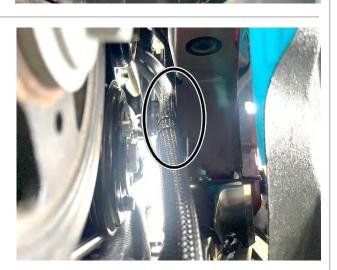
• Touch the Bracket to the Cross Member so that it does not rotate.





Align the hoses that were lined up horizontally so that the hoses from the Transfer Cooler are at the bottom. Clamp the Hose from the Transfer Cooler.

Clamp the Hose from the Transfer Cooler to Hose Bracket No. 1 while standing upright.



Connect the Hose from the Transfer Cooler to the lower side and the Hose from the Oil Pump to the upper side. Use a Tie Wrap and tie the two hoses together.

P18 Hose Clip ×2



P48 Tie Wrap Medium



• Secure the Oil Hose, Hose Bracket.

Before and after the clamping, tie the two oil hoses with Tie Wraps. Adjust the hoses so that there is sufficient clearance and tighten the Fittings. If clearance cannot be secured, check and adjust the position of the Oil Filter. P48 Tie Wrap Medium ×2 Tightening torque N·m(kgf·m) ·Fitting :T=20(2.0)

Before and after the clamping, tie the two oil hoses with Tie Wraps. Adjust the orientation of the Hose Bracket No. 2 so that the Air Tubing and Hose do not interfere, and tighten the Button Bolt. P48 Tie Wrap Medium ×2

Tightening torque N⋅m(kgf⋅m) •Button Bolt M8:T=16(1.6)

Secure the two oil hoses to the Cross Member with Tie Wraps. P48 Tie Wrap Medium







Before and after the clamping, tie the two oil hoses with Tie Wraps. Adjust the Hose Bracket No. 1 so that the Hose and Frame do not come into contact, and tighten the Cap Bolt.

P48 Tie Wrap Medium ×2

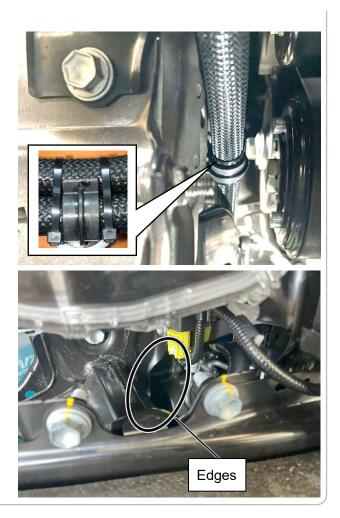
Tightening torque N·m(kgf·m)

•Cap Bolt M8:T=16(1.6)

▲ <u>CAUTION</u>

Adjust the position of Hose Bracket No. 1 so that the hose does not interfere with the edge of the frame.

Interference may damage the hose and cause oil leakage.



6. INSTALLATION OF PUMP HARNESS AND CONTROLLER

Connect the Round Terminals of the Pump Harness to



Tightening torque N⋅m(kgf⋅m) •Flange Nut M8:T=16(1.6)



• Wire the Bullet Terminal side of the Pump Harness underneath.

Advice

- •Temporarily attach the Harness so that it can be reached, adjust it, and then tie it together.
- •Please degrease the mounting points before attaching the Tie Wrap Base.

Secure the wiring in two places in the Tie Wrap Base and Tie Wrap.

P48 Tie Wrap Medium ×2 P50 Tie Wrap Base ×2



Secure the wiring in the Tie Wrap Base and Tie Wrap.

P48 Tie Wrap Medium P50 Tie Wrap Base





Secure the wiring in three places in the Tie Wrap.

P48 Tie Wrap Medium ×3



Secure the wiring in the Tie Wrap Base and Tie Wrap Medium.

Secure the wiring in a Tie Wrap Large.

P48 Tie Wrap Medium

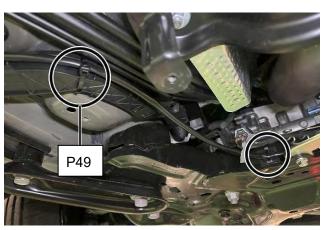
P50 Tie Wrap Base



P49 Tie Wrap Large

Secure the wiring in two places in the Tie Wrap Base and Tie Wrap. P48 Tie Wrap Medium ×2 P50 Tie Wrap Base ×2







• Wire the Connector side of the Pump Harness room.

Tape the wiring that passes under the Bench Type Rear Seat Cushion Assembly.



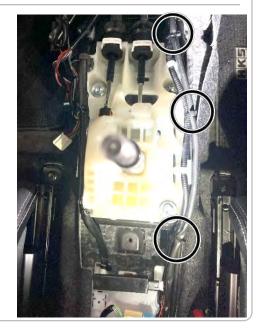
Advice

 Install it so that it does not interfere with the Shift Lever, Parking Brake Lever, etc.



Secure the wiring in three places in the Tie Wrap.

P48 Tie Wrap Medium ×3



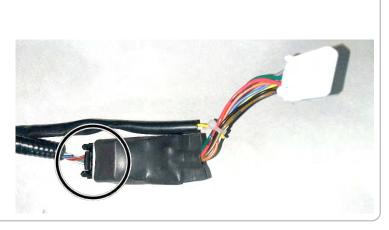
- Connect the Pump Harness to the Main Harness.
- Tie up the excess wiring with Tie Wrap.

P48 Tie Wrap Medium P52 Main Harness



• Connect the Coupler of the Main Harness and the Select Switch.

Please use without connection for vehicles (Without Transfer Protection Control Cancel Program 4WD mode switching will not be possible).



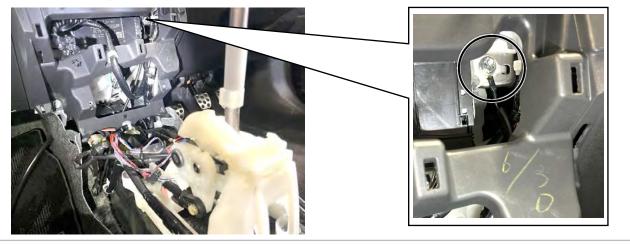
Connect the Main Harness and Pump Controller.
 The Pump Controller is fixed with Double sided tape within reach of the wiring.

 $\$ The image is an example of the mounting location.

P51 Pump Controller F54 Sachet (Double sided tape)



• Connect the Stag Terminal on the Main Harness to the Ground point.



• Connect the power supply for the Pump Controller. Thread the red wiring of the Main Harness through the back of the Glove Compartment Door Assembly. Secure the wiring in two places in the Tie Wrap.

P48 Tie Wrap Medium ×2



The red wiring of Connector A74 and the red wiring of the Main Harness are connected with a Splice and insulated with Vinyl tape.

%When used in combination with HKS SLD,

connect the wires with a Splice to the SLD wiring.

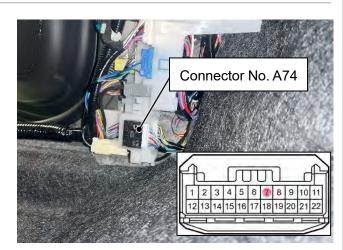


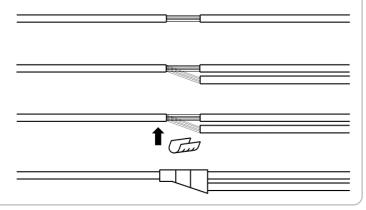
How to use Splice

- ①Peel off about 5mm of the wire sheath on the coupler side where the wiring is to be done.
- ②Double-fold the wire at the point where the sheathing was peeled off, and then fit the wire together.

③Firmly clamp Splice on top of the yawning line.

④Securely insulate with insulation tape (vinyl tape) to prevent a short circuit.





• Install the Ground Bolt.

Unfasten the Radiator Reserve Tank Assembly.

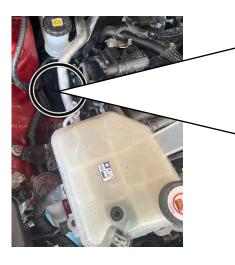


Remove the bolt at the point indicated by the circle, replace it with a Ground Bolt, and fix the Round Terminal of the black pump wire.

P34 Ground Bolt



Tightening torque N⋅m(kgf⋅m) ⋅Ground Bolt M6:T=7(0.7)





Install the Radiator Reserve Tank Assembly in the reverse of the procedure in which it was removed.

7. INSTALLATION OF STOCK PARTS AND START-UP CHECK

When installing the Console Box Assembly, be sure to use Select Switch.
 Please use without connection for vehicles

(Without Transfer Protection Control Cancel Program 4WD mode switching will not be possible).

• Check the following items before installing the stock parts.

Checklist	Confirmation
Are pipes, hoses, etc. piped correctly?	
Are hose bands and hose clamps securely fastened?	
Are there any bolts or nuts that have not been tightened?	
Are installed parts interfering with other parts?	

• Connect the Cable Terminal of the Negative Terminal of the Battery.

• Refill transfer oil.

Refer to the controller's operating instructions to activate it using manual mode.

Tightening torque N · m (kgf · m)

Transfer Filler plug : 39 (4.0)

Transfer oil reference oil quantity L

With kit installed:0.8[L]

(Stock oil quantity : 0.45[L])

Advice

- After filling the transfer oil to the specified level, run the pump (about 1 minute), circulate the oil through the pipes, and then add more oil to the specified level again (may be necessary twice for the first time).
- Check the oil level with the pump stopped (the oil level will drop while the pump is running).

• Operate Pump and check for oil leakage from various parts.

Advice

• Allow it to run for about 1 minute. Do not operate the pump for a long period of time when the transfer oil temperature is low, as the load on the pump is high.

• Start the engine and check the following items.

Checklist	Confirmation
Blow the engine dry a couple of times to see if the engine revs up smoothly?	
Are there any interference noises from parts?	
Is there any abnormality in idling operation?	
Stop the engine and check for loose bolts? (Check the tightness of the mounting portion again)	

• Install both the interior and exterior in the reverse order of the removal procedure.

The following two places change the fixing method.

[Engine Undercover Assembly]

Fix the Engine Undercover Assembly with a

Large Diameter Washer M6 and a Flange Nut M6 that

temporarily fastened the Hose Bracket No. 3.

Tightening torque N·m(kgf·m)

•Flange Nut M6:T=7(0.7)

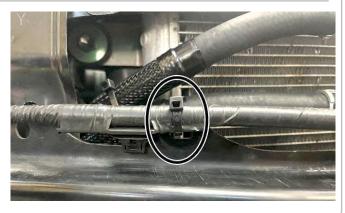
Advice

•One stock clip is no longer needed.

[Horn Harness] Fix it in a Tie Wrap to the place where it was fixed with a clip.

P48 Tie Wrap Medium



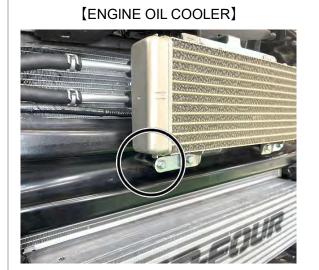


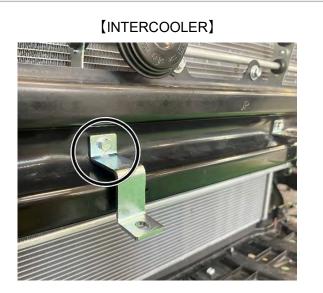
This completes the work.

8. WHEN USED IN CONJUNCTION WITH HKS PRODUCTS

In the HKS ENGINE OIL COOLER Kit and INTERCOOLER Kit, the circled parts in the figure below are fixed with a Large Diameter Washer M6 and Nut M6 on the back side of the Front Bumper Reinforcement. When using them together, replace the Large Diameter Washer M6 and Nut M6 with the Flange Nut M6 in this kit and fix it.

Tightening torque N⋅m(kgf⋅m) ⋅Flange Nut M6:T=7(0.7)





[ENGINE OIL COOLER and INTERCOOLER combined]



MAINTENANCE AND MANAGEMENT

Maintenance of this product in necessary in order to maintain the safety, reliability, and function of this product. •Maintenance is this the responsibility of the driver/owner.

alf you notice any observation other than these listed in the instruction manual places of

•If you notice any abnormalities other than those listed in the instruction manual, please contact a professional.

TROUBLESHOOTING

<u>WARNING</u>

Do not restart the engine if oil leakage has occurred.

- Tell the specialist where and how the leak is coming from and have it repaired.
- If the oil leakage is severe, please ask about first aid measures when making inquiries to prevent secondary disasters.
- Always follow the instructions of a professional contractor.
 In the worst case, an oil leak could cause a vehicle fire.
- Never attempt to repair any malfunctions on your own. Please contact a professional for repair.
- Please note that the contents of this manual may change without notice.

ABOUT AFTER-SALE SERVICE

For inquiries about this product, please contact a specialist or the store where you purchased it.

Please note that the contents of this manual may change without notice.

FOR SUBSEQUENT OWNERS

- When passing on this product, be sure to pass on the instruction manual to the next owner.
- When removing this product from your vehicle, please be sure to ask a professional to remove it.



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