

The following products have been developed by TOMEI USA to provide a simple yet powerful solution for turbocharging the naturally aspirated KA24DE engine.

- EXHAUST MANIFOLD KIT EXPREME KA24DE S13/S14 TURBO TYPE
- > TURBOCHARGER KIT ARMS BX7960 / BX8270 KA24DE
- > TURBOCHARGER KIT ARMS KA24DE HARDWARE PACK
- > INTERCOOLER PIPING KIT KA24DE

When combined, these products and parts empower the KA24DE with the same exhaust-side layout as the SR20DET engine, allowing users to install a variety of readily-available SR20DET turbo parts.

All the above products come complete with the necessary hardware for installation including nuts, bolts, gaskets and fitting adapters, with only a few simple modifications required by the user.

In addition to the instructions for installing these products, this guide also contains useful information and advice for a smoother install.

Please ensure you also refer to the official Nissan Servicing Manual.

After installation, keep this document stored in a safe location for future reference.

Retailers and/or workshops should pass this document to the end user and/or customer.

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9. TOMEI 240SX KA24DET SPECIFICATIONS

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1. PRODUCT INFO











BX7960 / BX8270 KA24DE

BX7960 PART No. TB403A-NS16C BX8270 PART No. TB403A-NS16D

APPLICATION: NISSAN 240SX S14 KA24DE ** This kit is comprised of the TURBOCHARGER and KA24DE HARDWARE PACK.



TURBOCHARGER KIT

KA24DE HARDWARE PACK for BX

for BX PART No. TB403A-NS16PK

APPLICATION: NISSAN 240SX S14 KA24DE ** KA24DE HARDWARE PACK ONLY.



EXHAUST MANIFOLD KIT KA24DE \$13/\$14 TURBO TYPE Ver.2

PART No. TB601A-NS16B

APPLICATION: NISSAN 240SX S14 KA24DE

INTERCOOLER PIPING KIT KA24DE

PART No. TB410A-NS16A

APPLICATION: NISSAN 240SX S14 KA24DE

WARNING

- Make sure the engine is cold be fore conducting any work on the vehicle.
 This is to avoid burn potential burn hazards and failing to adhere to this can be extremely dangerous.
- Ensure you use the appropriate tools and safety equipment to avoid injury during installation.
- Ensure that all parts are fitted correctly during installation. This is to avoid potential fire hazards and/or damage to not only your vehicle but also the vehicles around you.

CAUTION

- This document contains instructions on how to install the TURBOCHARGER, TURBO EXHAUST MANIFOLD and INTERCOOLER PIPING KIT. For details on the removal/installation of factory components as well as general maintenance information, please consult the manufacturer's official servicing manual.
- These products are designed specifically for motorsport use. As such, it should only be used off-road and/or on race tracks/circuits closed off from public roads.
- The engine's output will increase after installing the above products. Accordingly, the brakes, suspension, ECU as well as other surrounding components will also need to be upgraded and/or adjusted.

 These upgrades will need to be purchased separately and will depend on your particular setup.
- These products can/should only be used on the specified vehicle(s) or engine(s). Attempting to install these on any other vehicle will likely result in damage to the product and/or the engine/vehicle.
- To install the TURBO ASSY, TURBO EXHAUST MANIFOLD and INTERCOOLER PIPING KIT, you will need to make some modifications to the surrounding components. Ensure you familiarize yourself with the process and have the appropriate tools to hand before commencing any work.
- These products should be installed by a trained professional in a well equipped workshop.
- Take extra care when removing components as using excessive force can damage the part(s).
- Each bolt should be tightened down to using the specified amount of torque.
 Failing to do so could cause the bolt to warp and/or break.
- After installation, ensure that the engine has sufficient coolant and conduct a thorough check for leaks <u>before</u> driving the vehicle. Do <u>not</u> attempt_to drive the vehicle when there is a leak or insufficient coolant.
 This can cause the engine/water temperature to rise, leading to engine damage.
- Be sure to install a boost gauge to monitor the turbo's performance.

REQUIRED TOOLS The following tools are required for installation.

•General engine maintenance tools

Official Servicing Manual

· Liquid gasket

•Torque wrench

Safety equipmentGrinder

• Thread seal tape

•Drill or drill press
•Center drill

•Paint

CoolantEngine oil

•10mm & 16.5mm drill bit

•Engine crane

· Silicone hose (Ф8mm)∗

^{*} The Silicone hose may or may not be required depending on the setup. In this guide, the hose is used in step 5.3.1. to connect a boost controller.

2. REMOVING THE STOCK COMPONENTS

⚠ CAUTION

This manual provides only the basic instructions. For details, please refer to the vehicle's official servicing manual.

1. Disconnect and remove the battery.



 a modified 240SX may look slightly different but fundamentally the same components components will need to be removed.

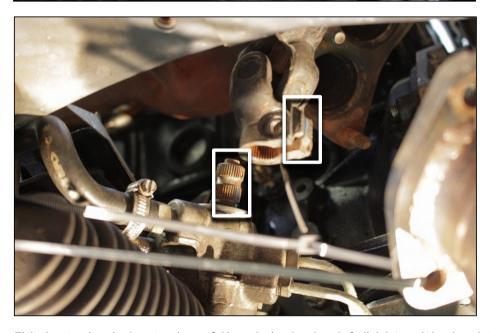
2. Remove the engine under cover.



- 3. Remove the hood.
- 4. Remove the air intake ASSY (pre-throttle body).
- 5. Remove the exhaust (front, center and rear sections).

6. Disconnect the steering shaft.



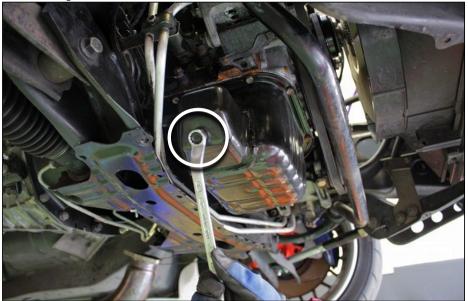


With the steering wheel centered, carefully mark the sheering shaft U-joint position in relation to the steering rack pinion gear this is to ensure correct steering alignment upon reinstall.

Then, loosen the upper bolt on the U-joint and completely remove the lower bolt to disconnect the steering shaft.

7. Remove the exhaust manifold.

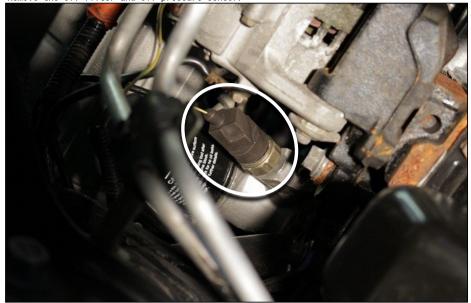
8. Drain the engine oil and coolant.





Remove the drain plug on both the oil pan and radiator to drain the engine oil and coolant.

9. Remove the oil filter and oil pressure sensor.

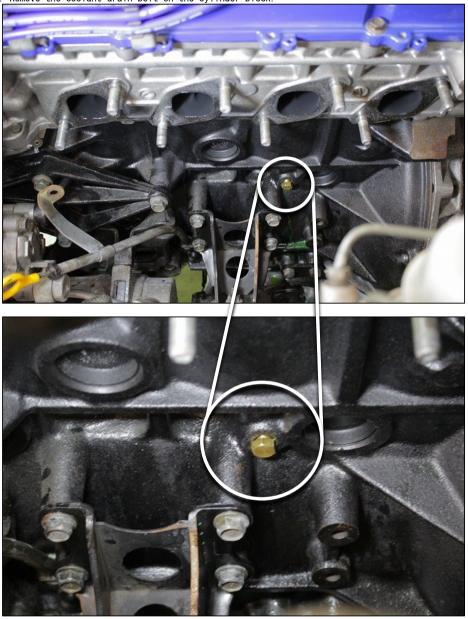




The oil pressure sensor will be reused later.

imes Removing the oil filter makes access to the oil pressure sensor a lot easier.

10. Remove the coolant drain bolt on the cylinder block.



 $\ensuremath{\mathbb{X}}$ This hole will later be used for the turbocharger WATER IN FITTING.

11. Remove the radiator and radiator fan shroud.





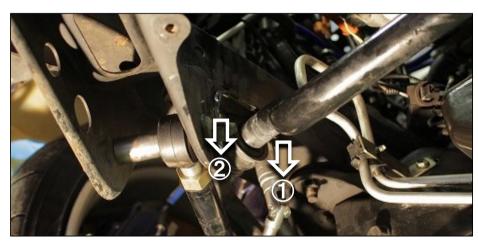
Carefully remove the radiator and radiator fan shroud from the engine bay.

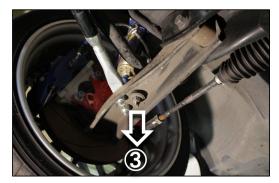
Depending on your setup, you may need to remove these separately.

X A modified 240SX may look slightly different but fundamentally the same components will need to be removed.

12. Remove the front stabilizer bar.









Remove the 4 bolts/nuts for both the left and right side of the stabilizer bar. (Right side shown above) ** Removing the stabilizer bar ensures sufficient clearance for the oil pan to be lowered and removed. ** A modified 240SX may look slightly different but fundamentally the same components will need to be removed.

13. Remove the A/C belt.





Loosen the center bolt on the AC idler tension pulley, then relieve the tension on the belt to unmount it from the pulley.

 $\ensuremath{\mathbb{X}}$ Removing the AC belt ensures sufficient clearance for the oil pan to be removed.

14. Remove both the right and left transmission/engine gussets.





* The gussets need to be removed so that the oil pan can be detached.

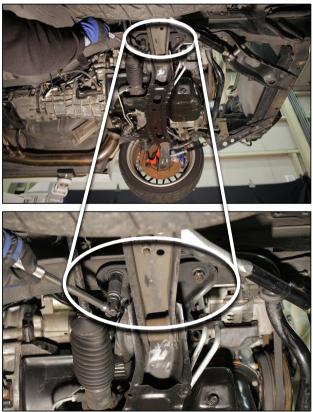
15. Secure the engine using an engine crane.



16. Remove the lower engine mount bolt/nut from the left and right engine mounts.







Loosen the 4 bolts/nuts holding the front crossmember in place. (left side x2, right side x2) \times Do <u>not completely remove</u> the bolts/nuts during this process.

18. Hoist the engine and remove the LH engine mount bracket.

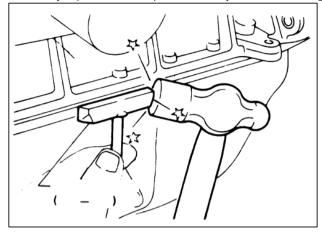


Ensure you have appropriate engine slingers attached to the cylinder head then hoist the engine just enough so that the LH engine mount bracket and bolts can be removed.



With the engine hoisted, carefully remove the LH engine mount bracket.

19. Carefully separate the oil pan from the cylinder block using an oil pan seal cutter.





20. Disconnect the oil strainer from the cylinder block.



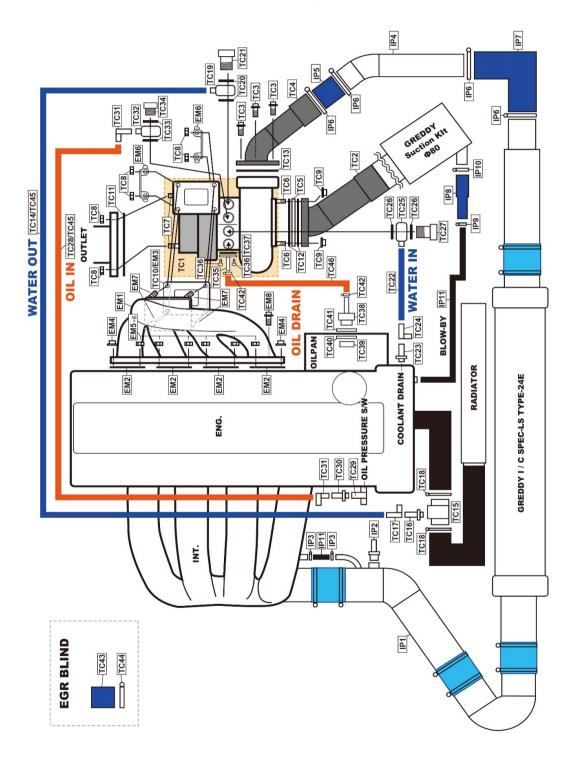
- * The oil strainer gasket will be reused when reinstalling later.
- * Detaching the oil strainer from the cylinder block makes removing the oil pan much easier.
- 21. Remove the oil pan and strainer from the vehicle.

 While lowering the front cross member, carefully remove both the oil pan and oil strainer from the vehicle.
- 22. Clean the oil pan thoroughly.

Ensure sure you also remove and/or modify any other necessary parts.

3. PARTS/SYSTEM LAYOUT

The below diagram shows the positioning/layout of the components included in this kit. You may wish to print and have this to hand for reference during the installation.



TURBOCHARGER KIT

REF.	PART	LOCATION	QTY.
TC1	TURBOCHARGER		1
TC2	COMPRESSOR IN PIPE	Compressor Housing	1
TC12	COMPRESSOR IN GASKET		2
TC5	COMPRESSOR IN ADAPTER		1
TC4	COMPRESSOR OUT PIPE	Compressor Housing	1
TC13	COMPRESSOR OUT GASKET		1
TC3	FLANGE BOLT M6		3
TC10	TURBINE IN GASKET	Turbocharger / Exhaust Housing	1
TC8	HEX NUT M8 × P=1. 25		4
TC6	STUD BOLT M8 × P=1. 25 × L=35mm	Turbocharger / Compressor Housing	2
TC9	FLANGE NUT M8 × P=1.25		2
TC7	STUD BOLT M8 × P=1. 25 × L=38mm	Turbocharger / Exhaust Housing	2
TC8	HEX NUT M8×P=1.25		2
TC11	TURBINE OUT GASKET		1
TC28	MESH HOSE 940mm	Oil In / Turbo-Oil Pressure Sensor	1
TC29	3WAY ADAPTER	Oil In / Oil Pressure Sensor	1
TC30	FITTING PT1/8-AN4	–	1
TC31	FITTING 4AN M TO F 90°		2
TC32	BANJO FITTING M12 4AN 50mm	Oil In / Turbocharger	1
T000	COPPER WASHER		
TC33	M12×D18×D12.2×T1.2		2
	BANJO BOLT		
TC34	M12×P1.25×H25.3 1.0		1
TC35	OIL DRAIN PIPE A	Oil Out / Turbocharger	1
TC37	OIL RETURN GASKET		1
TC36	BOLT M6 × P=1.0 × L=16mm		2
TC38	OIL DRAIN PIPE B	Oil Out / Oil pan	1
TC39	HEX NUT M16		1
TC40	WASHER M16		1
TC41	SEAL WASHER M16		1
TC42	HOSE BAND 18-32mm		2
TC14	MESH HOSE 1350mm	Water Out / Turbo - Radiator Upper Hose	1
TC15	WATER PIPE ADAPTER	Water Out / Radiator Upper Hose	1
TC16	FITTING PT1/8-4AN		1
TC17	FITTING 4AN M TO F 90°		1
TC18	HOSE BAND 27-51MM		2
TC19	BANJO FITTING M14 4AN 38.5mm	Water Out / Turbocharger	1
TC20	COPPER WASHER		2
1020	M14 × D21 × D14 × T1. 0		
TC21	WATER BOLT M14×P1.5×27mm		1
TC22	MESH HOSE 200mm	Water In / Turbo - Cylinder Block Coolant Drain	1
TC23	FITTING PT1/4-AN4	Water In / Cylinder Block Coolant Drain	1
TC24	FITTING 4AN M TO F 90°		1
TC25	BANJO FITTING M14 4AN 38.5mm	Water In / Turbocharger	1
TC26	COPPER WASHER M14×D21×D14×T1.0		2
TC27	WATER BOLT M14×P1.5×27mm	\dashv	1
TC44	HOSE BAND 18-32mm	EGR Blind	1
	BLIND PLUG		1
TC43 TC45	HEAT RESISTANT HOSING	For TC28 OIL IN and TC14 WATER OUT HOSEs	1
TC45	OIL PROOF HOSE	For TC35 and TC38 OIL DRAIN PIPEs	1
1040	OIF LUOOL HOSE	I OI 1000 AIIU 1000 UIL DRAIN PIPES	

EXHAUST MANIFOLD KIT

REF.	PART	LOCATION	QTY.
EM1	EXHAUST MANIFOLD		1
EM2	EXHAUST MANIFOLD GASKET		4
EM3	TURBINE IN GASKET		1
EM4	FLANGE NUT		2
EM5	HEX NUT		6
EM6	LOCK PLATE		2
EM7	STUD BOLT M8 13-20 38mm		4
EM8	FLANGE BOLT M6		1

INTERCOOLER PIPING KIT

REF.	PART	LOCATION	QTY.
IP1	INTAKE PIPE A Φ70	Throttle Side	1
IP2	FITTING #8 STRAIGHT 1/8PT		1
IP3	HOSE BAND 18-32mm		2
IP4	INTAKE PIPE B Φ50	Intercooler Side	1
IP5	SILICONE HOSE		1
11.0	Φ50×L=70 STRAIGHT		ı
IP6	HOSE BAND 46-70mm		4
IP7	SILICONE HOSE Φ50 ELBOW		1
IP8	SILICONE HOSE Φ28-Φ22	Intake/Suction Kit Side	1
IP9	HOSE BAND 18-32mm		1
IP10	HOSE BAND 21-44mm		1
IP11	OIL PROOF HOSE	Throttle Side / Blow-by hose	1

REQUIRED PARTS The following parts are required for installation.

IITOME!

PART No.	PART
TB601A-NS16A	EXHAUST MANIFOLD KIT EXPREME KA24DE S13/S14 TURBO TYPE

^{*} Please note that exhaust manifold kits from other makers might not include the manifold gasket.

GReddy

PART No.	PART
12020480	INTERCOOLER KIT/SPEC-LS S14/S15 TYPE24E
11920202	SUCTION KIT Φ80

^{*} This kit is designed to be used in conjunction with the above intercooler.

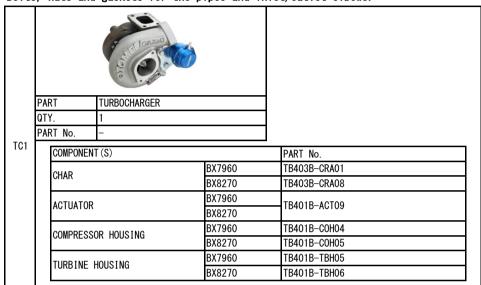
4. INSTALLING THE TURBOCHARGER KIT, TURBO EXHAUST MANIFOLD AND TURBO OUTLET/ELBOW.

4.1. PARTS & COMPONENTS

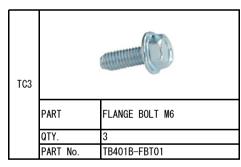
4.1.1.TURBOCHARGER KIT This kit is comprised of the below items.

The HARDWARE PACK (TB403A-NS16PK) does <u>not</u> include the TC1 TURBOCHARGER.

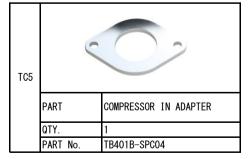
Bolts, nuts and gaskets for the pipes and inlet/outlet elbows.

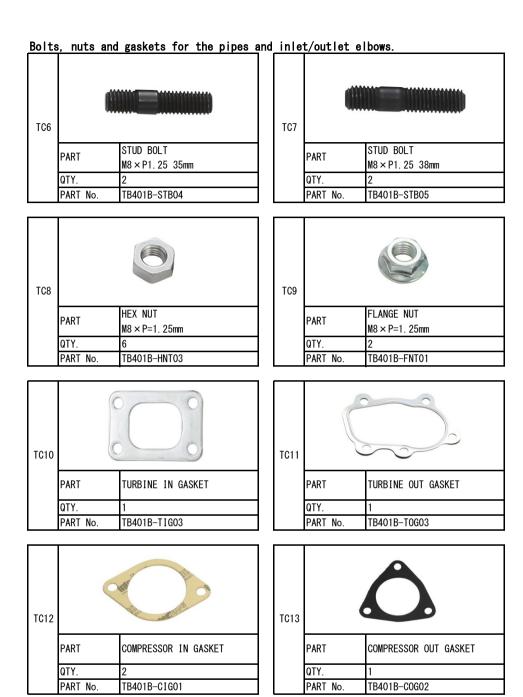




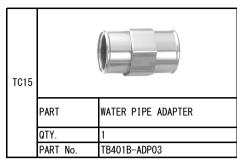


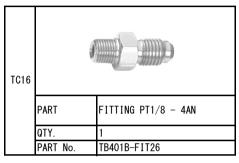








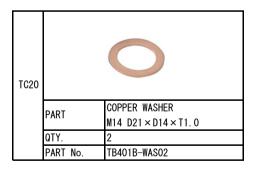




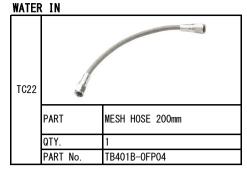


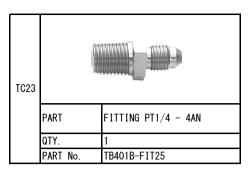






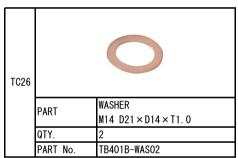


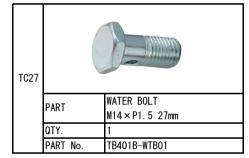








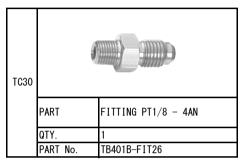






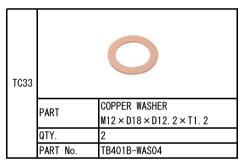


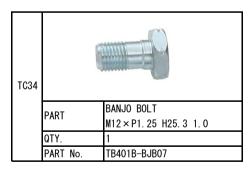
TC29		
	PART	3WAY ADAPTER
	QTY.	1
	PART No.	TB401B-ADP02



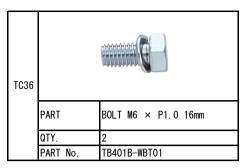
TC31		
	PART	FITTING 4AN M to F 90°
	QTY.	2
	PART No.	TB401B-FIT01

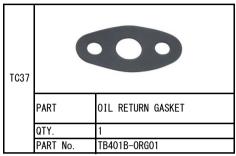




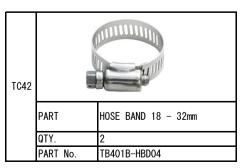






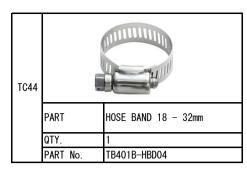








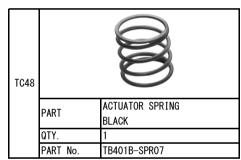


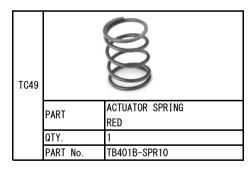




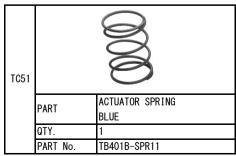


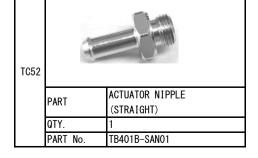






TC50		
	PART	ACTUATOR SPRING PINK
	QTY.	1
	PART No.	TB401B-SPR11





TC53 PART BOLT SMOOTH PASTE OTY. 1 PART No. PB6150-BSP01

4.1.2. TURBO EXHAUST MANIFOLD KIT This kit is comprised of the below items.



PB6150-SBT04

PART No.

PART No.

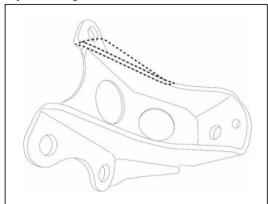
PB6150-FBT12

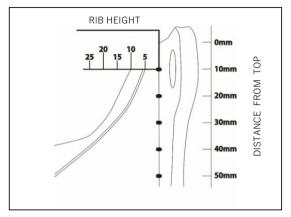
EM9	EXPL	REDDE BOLT-SMOOTH-PASTE
	PART	BOLT SMOOTH PASTE
	QTY.	1
	PART No.	PB6150-BSP01

4.2. MODIFICATIONS

4.2.1. ENGINE MOUNT BRACKET (LH)

Modify the LH engine mount bracket as shown below.





DISTANCE FROM TOP	RIB HEIGHT
1 Omm	5mm
20mm	1 Omm
30mm	15mm
40mm	25mm
50mm	35mm



⚠ WARNING

Ensure you wear appropriate safety goggles, gloves and dust mask.



⚠ CAUTION

Once the modification is complete, apply some paint to prevent rust.

4. 2. 2. OIL PAN

- 1. Clean the oil pan thoroughly and remove all gasket residue using a scraper.
- 2. Use a drill press or handheld drill to make a 16.5mm diameter hole in the oil pan as shown below.



Start with a smaller drill size first (10mm), then expand the hole to 16.5mm.

%This helps to ensure that the final hole is positioned/centered correctly.



Vertically, the hole center should be 18mm from the oil pan flange.



Horizontally, the hole center should be 33mm from the bolt hole center pictured left.

4.3. PREPARING & REINSTALLING THE OIL PAN

- 1. Clean the modified oil pan thoroughly.
- 2. Attach the OIL DRAIN PIPE B to the oil pan as shown below.



The OIL DRAIN PIPE B should be installed parallel to the oil pan flange.





REF.	PART	QTY.
TC38	OIL DRAIN PIPE B	1
TC39	HEX NUT M16	1
TC40	WASHER M16	1
TC41	SEAL WASHER M16	1

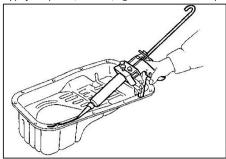
	TORQU	E SPEC.	
<1>	T=89. 2N • m	(9.1kgf • m)	



CAUTION

After installing the above hardware, ensure you test for leaks using water. Once the checks are complete, allow the oil pan to dry completely.

3. Apply liquid (silicon) gasket to the oil pan flange.



- 4 .Carefully pass the oil pan together with the oil strainer over the front cross member making sure that the liquid (silicon) gasket doesn't come into contact with the surrounding components.
- 5. Attach the oil strainer to the cylinder block.
- 6. Attach the oil pan to the cylinder block.

TORQUE SPEC.	T=9. ON • m	(0.9kgf·m)	
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4.4. REINSTALLING THE STOCK COMPONENTS

Reinstall the front stabilizer, crossmember, AC belt, gussets, modified LH engine mount bracket, radiator and radiator fan shroud.





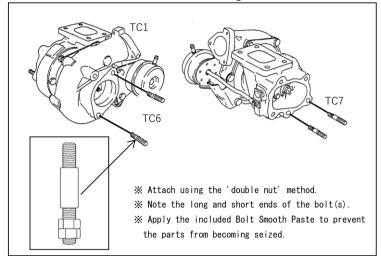




4.5. INSTALLING THE TURBO EXHAUST MANIFOLD AND TURBO OUTLET/ELBOW

4. 5. 1. PREPARING THE TURBOCHARGER

Attach the included stud bolts to the turbocharger.



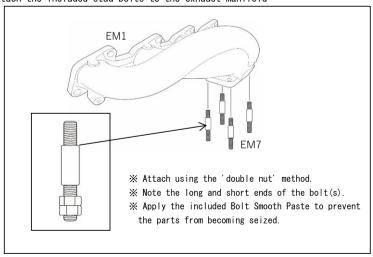
ATTE	ENTION
Short	Long
**Attach using the method (nuts i **Ensure the student)	ncluded). I bolt does not
Should the bol	moving the nuts. ts move when uts, you will need
to repeat the p	rocess.

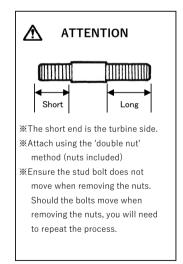
REF.	PART	QTY.
TC1	TURBOCHARGER	1
TC6	STUD BOLT M8*P1.25 35mm	2
TC7	STUD BOLT M8*P1.25 38mm	2

TORQUE	T=19.6~21.6N • m	(2.0~2.2kgf • m)
SPEC.	1-19.0 Z1.0N • III	(2. U 2. 2Kg1 • III)

4.5.2. PREPARING THE EXHAUST MANIFOLD

Attach the included stud bolts to the exhaust manifold





REF.	PART	QTY.
EM1	EXHAUST MANIFOLD	1
EM7	STUD BOLT M8	4

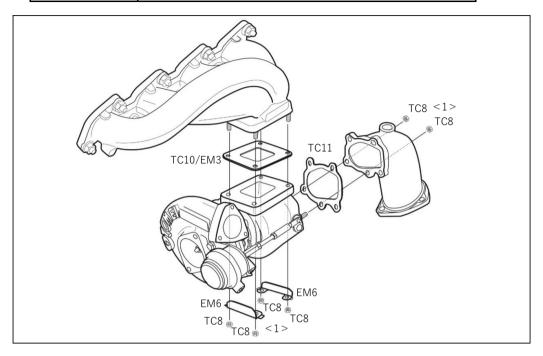
31 E0.

4.5.3. ASSEMBLING THE TURBOCHARGER, TURBO EXHAUST MANIFOLD AND TURBO OUTLET/ELBOW

**Refer to the manual included with your preferred choice of TURBO OUTLET/ELBOW for details.

TOME! TURBO OUTLET/FLBOW RECOMMENDED

TOMES TORBO OCILLITY	ELDON NEGOMMENDED
PART No.	PART
TB6020-NS08C	TURBINE OUTLET PIPE KIT EXPREME SR20DET



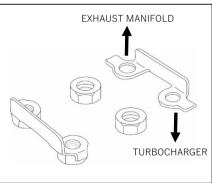
REF.	PART	QTY.
TC8	HEX NUT M8 × P=1. 25	6
TC10 / EM3	TURBINE IN GASKET	1
TC11	TURBINE OUT GASKET	1
EM6	LOCK PLATE	2

	TORQUE SPEC.
<1>	T=21. ON • m(2. 1kgf • m)

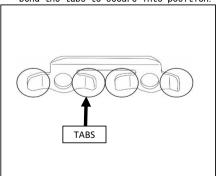


CAUTION

*Ensure orientation is correct.



* After tightening down the lock plates, bend the tabs to secure into position.



*Apply the included Bolt Smooth Paste to prevent the parts from becoming seized.

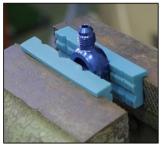
4. 6. ATTACHING THE TURBOCHARGER HOSES, TUBES AND PIPES

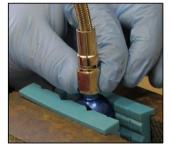
CAUTION

Ensure each part is positioned and orientated as shown below. Failing to do so will not only result in damage to the turbo from insufficient lubrication/cooling, but will also prevent the TURBO ASSY from being installed.

4. 6. 1. WATER OUT HOSE

1. Attach the MESH HOSE to the BANJO FITTING.







2. Using the included WATER BOLT and WASHERs, attach the BANJO FITTING and MESH HOSE to the turbocharger.







REF.	PART	QTY.
TC14	MESH HOSE 1350mm	1
TC19	BANJO FITTING M14 4AN 38.5mm	1
TC20	WASHER M14 D21 × D14 × T1.0	2
TC21	WATER BOLT M14 × P1.5 27mm	1

	TOROUE OREO
	TORQUE SPEC.
<1>	T=31.4N • m(3.2kgf • m)

4. 6. 2. WATER IN HOSE

1. Attach the MESH HOSE to the BANJO FITTING.







2. Using the included WATER BOLT and WASHERs, attach the BANJO FITTING and MESH HOSE to the turbocharger.







REF.	PART	QTY.
TC22	MESH HOSE 200mm	1
TC25	BANJO FITTING M14 4AN 38.5mm	1
TC26	WASHER M14 D21×D14×T1.0	2
TC27	WATER BOLT M14×P1.5 27mm	1

TORQUE SPEC.	
<1>	T=31.4N·m(3.2kgm)

4. 6. 3. OIL IN HOSE

- 1. Attach the FITTING 4AN M to F 90° adapter to the BANJO FITTING.
- 2. Using the included BANJO BOLT and WASHERs, attach the above on to the turbocharger.
- 3. Attach the MESH HOSE to the FITTING 4AN M to F 90° adapter.
- imes Ensure that the FITTING 4AN M to F 90° adapter is orientated as shown below (see $ilde{ extbf{D}}$).









REF.	PART	QTY.
TC28	MESH HOSE 940mm	1
TC32	BANJO FITTING M12 4AN 50mm	1
TC34	BANJO BOLT M12 × P1. 25 H25. 3 1. 0	1
TC33	COPPER WASHER	2
1000	M12 × D18 × D12. 2 × T1. 2	
TC31	FITTING 4AN M to F 90°	1

	TORQUE SPEC.
<1>	T=31.4N·m(3.2kgm)

4.6.4. OIL DRAIN PIPE

Attach the OIL DRAIN PIPE A as shown below.





REF.	PART	QTY.
TC35	OIL DRAIN PIPE A	1
TC36	BOLT M6*P1.0 16mm	2
TC37	OIL RETURN GASKET	1

	TORQUE SPEC.
<1>	T=9N • m (0. 9kgm)

4.6.5. HEAT RESISTANT HOSING

Cover the WATER OUT HOSE (from step 4.6.1.) and the OIL IN HOSE (from step 4.6.3.) using the included HEAT RESISTANT HOSING.

CAUTION

Cut the HEAT RESISTANT HOSING to length and use it to prevent heat damage from the turbo.







※ Use zip ties where necessary to secure the hosing in place.

REF. PART QTY. TC45 HEAT RESISTANT HOSING

4. 6. 6. WATER IN FITTING ADAPTER (to cylinder block)

Attach the FITTING 4AN M to F 90° adapter to the WATER IN HOSE (from step 4.6.2.) as shown below.



REF.	PART	QTY.
TC24	FITTING 4AN M to F 90°	1

4. 6. 7. COMPRESSOR INLET ELBOW PIPE

Install the COMPRESSOR IN PIPE onto the turbocharger compressor housing.





REF.	PART	QTY.
TC2	COMPRESSOR IN PIPE	1
TC5	COMPRESSOR IN ADAPTER	1
TC12	COMPRESSOR IN GASKET	2
TC9	FLANGE NUT M8*P=1.25mm	2

PEC.
(3. 2kgm)



Do <u>not</u> modify the COMPRESSOR IN ADAPTER. It is specifically designed to prevent over boosting.

4. 6. 8. COMPRESSOR OUTLET ELBOW PIPE

Install the COMPRESSOR OUT PIPE onto the turbocharger compressor housing.





REF.	PART	QTY.
TC4	COMPRESSOR OUT PIPE	1
TC3	FLANGE BOLT M6	3
TC13	COMPRESSOR OUT GASKET	1

	TORQUE SPEC.
<1>	T=9N • m (0. 9kgm)



⚠ CAUTION

This product (TURBOCHARGER KIT and/or HARDWARE PACK) is designed to be used in conjunction with the below product(s) from GREDDY.

Additional piping and/or modifications may be required when using alternative/other products.

F. Spridy

PART No.	DESCRIPTION	
12020480	INTERCOOLER KIT/SPEC-LS S14/S15 TYPE24E	
11920202	SUCTION KIT Φ80	

4.7. INSTALLING THE COMPONENTS ONTO THE ENGINE

CAUTION

Using excessive force to tighten the banjo/adapter fittings can damage the parts and/or the engine. In some instances, you may need to remove the engine from the vehicle to repair the damage caused by this.

4.7.1. OIL PRESSURE SENSOR

1. Apply thread sealing tape to the included PT 1/8 4AN and 3 WAY adapter fittings





2. Install the 3 WAY ADAPTER as shown below.



3. Combine the PT 1/8 4AN and 90° fitting adapters and install onto the 3 WAY ADAPTER as shown below.





4. Install the oil pressure sensor onto the 3 WAY ADAPTER and reconnect the sensor coupler.



REF.	PART	QTY.
TC29	3WAY ADAPTER	1
TC30	FITTING PT1/8 - 4AN	1
TC31	FITTING 4AN M to F 90°	1

4.7.2. WATER IN FROM CYLINDER BLOCK

Apply thread sealing tape to the FITTING PT1/4 - 4AN adapter and install onto the cylinder block.

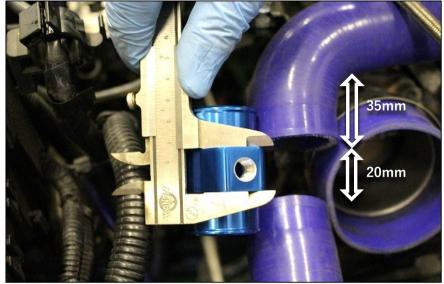




REF.	PART	QTY.
TC23	FITTING PT1/4 - 4AN	1

4. 7. 3. WATER OUT TO UPPER RADIATOR HOSE

- 1. Temporarily reattach the upper radiator hose.
- 2. Starting at 35mm from the bend, carefully cut out a 20mm section of the upper radiator hose as shown below.



3. Install the WATER PIPE ADAPTER using the included HOSE BANDs.



4. Apply thread sealing tape to the FITTING PT1/8 - 4AN adapter. Then, combine with the FITTING 4AN M to F 90° adapter and install onto the WATER PIPE ADAPTER.







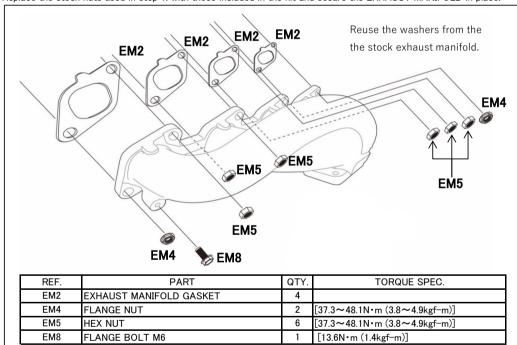
REF.	PART	QTY.
TC15	WATER PIPE ADAPTER	1
TC16	FITTING PT1/8 - 4AN	1
TC17	FITTING 4AN M to F 90°	1
TC18	HOSE BAND 27 - 51mm	2

4. 7. 4. TURBOCHARGER ASSY





- 1. Test fit the TURBOCHARGER ASSY onto the engine together with the included EXHAUST MANIFOLD GASKETs. Use the stock nuts to temporarily secure in place.
- 2. Check there is sufficient clearance between the modified LH engine mount bracket and the turbocharger unit.
- 🔆 Should there be insufficient clearance, modify the LH engine mount bracket accordingly.
- 3. Once sufficient clearance have been confirmed/achieved, tighten down the LH engine mount bracket.
- 4. Replace the stock nuts used in step 1. with those included in the kit and secure the EXHAUST MANIFOLD in place.



XApply the included Bolt Smooth Paste to prevent the parts from becoming seized.

4. Secure the oil dip stick to the exhaust manifold using the included FLANGE BOLT.





↑ CAUTION

- •Ensure sufficient clearance and correct fitment has been achieved before completely tightening down the fastenings. In some cases, there may be insufficient clearance due to minor differences between individual vehicles. In such a case, loosen the fastenings on each component and adjust the positioning until sufficient clearance is achieved before retightening the fastenings again.
- •Ensure you clean the EXHAUST MANIFOLD after installation. Using the EXHAUST MANIFOLD with oil or other debris on it can cause blemishes and/or burn marks.
- Depending on the setup and/or use, heat from the Exhaust manifold can damage the surrounding components. Thermal insulation should be used where necessary to prevent this.

4.7.5. HOSES

4.7.5.1. WATER IN HOSE

Connect the WATER IN HOSE (from step 4.6.2.) to the WATER IN fitting adapter (from step 4.7.2.)

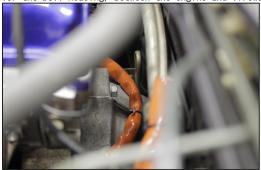




4. 7. 5. 2. OIL IN HOSE

1. Carefully route the OIL IN HOSE (from step 4.6.3.) over the bell housing, between the engine and firewall.





2. From there, route the hose alongside the stock wiring/harness and connect to the 3 WAY ADAPTER (from step 4.7.1.) Use zip ties where necessary to anchor the hose in place as circled below.







4. 7. 5. 3. WATER OUT HOSE

1. Carefully route the WATER OUT HOSE (from step 4.6.1.) between the engine and firewall.

lack L Ensure that the hose does <u>not</u> make contact with the turbocharger/exhaust components.





- $2. \ \, \text{From there, route the hose under the intake manifold and (loosely) anchor in place where necessary.}$
- X Depending on your setup, you may need to route the hose around the intake manifold instead.
- 3. Connect the hose to the WATER PIPE ADAPTER (from step 4.7.3.).



4. 7. 5. 4. OIL DRAIN

1. Attach the OIL PROOF HOSE to OIL DRAIN PIPE A (from step 4.6.4.) using the included HOSE BAND.



2. Cut the OIL PROOF HOSE to the appropriate length and connect onto OIL DRAIN PIPE B (from step 4.3.) and secure using the included HOSE BAND.





REF.	PART	QTY.
TC42	HOSE BAND 18 - 32mm	2
TC46	OIL PROOF HOSE	1

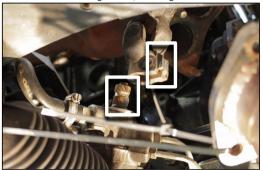
⚠ CAUTION

Ensure the hoses are routed tension-free and away from the TURBOCHARGER and/or EXHAUST MANIFOLD to avoid heat damage.

4. 8. OTHER

4.8.1. REATTACHING THE STEERING SHAFT

Check that everything is fitted correctly and that sufficient clearance has been achieved. Then proceed to reconnect the steering shaft, making sure the U-Joint and steering rack pinion gear align correctly.





4. 8. 2. (RE) INSTALLING EXHAUST COMPONENTS

(Re)install the exhaust (front, center and rear sections). $\overset{\scriptstyle \times}{\sim}$

4. 8. 3. EGR BLIND PLUG

Cover the EGR valve with the BLIND CAP and secure using the included HOSE BAND.





REF.	PART	QTY.
TC43	BLIND CAP	1
TC44	HOSE BAND 18 - 32mm	1

4. 8. 4. INSTALLING AN AIR INTAKE

Please refer to the installation manual included with you preferred choice of turbo intake.





🄼 CAUTION

This product (TURBOCHARGER KIT and/or HARDWARE PACK) is designed to be used in conjunction with the below product(s) from GREDDY.

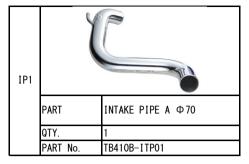
Additional piping and/or modifications may be required when using alternative/other products.

CReddy

PART No.	DESCRIPTION
12020480	INTERCOOLER KIT/SPEC-LS S14/S15 TYPE24E
11920202	SUCTION KIT Φ80

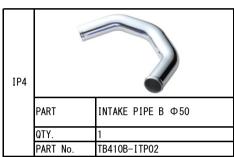
5. INSTALLING THE INTERCOOLER PIPING KIT

5.1. PARTS AND COMPONENTS



IP2				
	PART	FITTING #8 STRAIGHT 1/8PT		
	QTY.	1		
	PART No.	TB410B-FIT01		

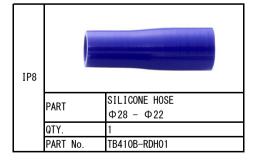


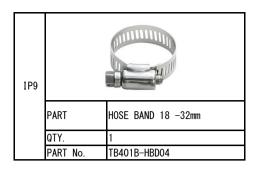


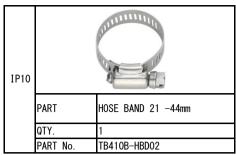














REQUIRED PARTS The following parts are required for installation.

TOME!

PART No.	DESCRIPTION	
TB403A-NS16C	TURBOCHARGER KIT ARMS BX7960 KA24DE	EITHER ONE
TB403A-NS16D	TURBOCHARGER KIT ARMS BX8270 KA24DE	ETHIER ONE
TB403A-NS16PK	TURBOCHARGER KIT ARMS KA24DE HARDWARE PACK	for installing other
TD400A NOTOLK	TORDOORANGER KIT ANIIO KAZADE HARDITAKE LAOK	turbochargers
TB601A-NS16A	EXHAUST MANIFOLD KIT EXPREME KA24DE S13/S14 TURBO	0 TYPE

W Please note that exhaust manifold kits from other makers might not include the manifold gasket.

GReddy

PART No.	DESCRIPTION
12020480	INTERCOOLER KIT/SPEC-LS S14/S15 TYPE24E
11920202	SUCTION KIT Ф80



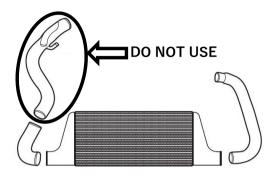
This product has been designed to work in conjunction with the above products.

Alternative products can also be installed but may require some modification and/or additional parts.

5. 2. INSTALLING THE GREDDY INTERCOOLER KIT

Install the intercooler core together with the 2 connecting pipes as detailed in the GREDDY installation manual. % The GREDDY I-3 intercooler tube (see GREDDY installation manual) will not be used.





A CAUTION

■ Installing the GREDDY intercooler kit requires the stock battery to be replaced with a smaller unit. Alternatively, the stock battery may be relocated instead (e.g. to the trunk).

BATTERY SIZE	34B19L
DIMENSIONS	$185 \times 125 \times 210$ mm or smaller

- Installation will require an opening to be cut into the battery tray.
- * See GREDDY installation manual for details.

5.3. INSTALLING THE INTERCOOLER PIPING KIT

5.3.1. INTAKE PIPE A

Apply thread sealing tape to the FITTING #8 STRAIGHT 1/8PT adapter and install onto INTAKE PIPE A.
 Ensure you also remove the rubber cap from the AACV (IACV) connecting tube.





 Install INTAKE PIPE A onto the throttle body and pass the opposite end through the opening in the battery tray.
 Then, cut the included OIL PROOF HOSE to length and use the provided hose bands to connect the AACV (IACV) to INTAKE PIPE A.

The FITTING #8 STRAIGHT 1/8PT adapter can be used to connect devices such as a boost controller.



※ The silicone hose for connecting devices such as a boost controller will need to be purchased separately.



The OIL PROOF HOSE should be cut to length so that there are no kinks once the hose is installed.

REF.	PART	QTY.
IP1	INTAKE PIPE A Φ70	1
IP2	FITTING #8 STRAIGHT 1/8PT	1
IP3	HOSE BAND 18 - 32mm	2
IP11	OIL PROOF HOSE	1

5. 3. 2. INTAKE PIPE B

1. Using the included HOSE BANDs, install the SILICONE Φ 50 X L=70 STRAIGHT HOSE onto the COMPRESSOR OUTLET PIPE and the SILICONE Φ 50 ELBOW HOSE onto the GREDDY intercooler pipe as shown below. Then, install INTAKE PIPE B and secure in place with the provided HOSE BANDs.







REF.	PART	QTY.
IP4	INTAKE PIPE B Φ50	1
IP5	SILICONE HOSE Φ50× L=70 STRAIGHT	1
IP6	HOSE BAND 46 - 70mm	4
IP7	SILICONE HOSE Φ50 ELBOW	1



⚠ CAUTION

INTAKE PIPE B can be installed either way round.

Ensure there is also sufficient clearance with the hood, turbo air intake and other surrounding components.

5.3.3 BLOW-BY HOSE

1. Connect the blow-by hose from the cylinder head to the turbo air intake using the provided OIL PROOF HOSE and SILICONE HOSE Φ 28 - Φ 22 as shown below.



⚠ CAUTION

The OIL PROOF HOSE should be cut to length so that there are no kinks once the hose is installed.



	PART	QTY.
IP8	SILICONE HOSE Φ28 - Φ22	1
IP9	HOSE BAND 18 -32mm	1
IP10	HOSE BAND 21 -44mm	1
IP11	OIL PROOF HOSE	1
*	Reuse stock item	1

5. 3. 4. INTERCOOLER

Ensuring that sufficient clearance has been achieved, connect the bottom end of INTAKE PIPE A to the intercooler piping and tighten down all hose bands to complete the installation.





6 POST INSTALLATION

6.1. REFILL ENGINE OIL

6. 2. (RE) CONNECT BATTERY



CAUTION

See GREDDY intercooler installation manual for details.

6.3. REFILL COOLANT AND 'BLEED' SYSTEM



CAUTION

- Ensure you use the appropriate coolant. Using only water can cause the aluminum components to corrode.
- Ensure you properly 'bleed' the cooling system. Air in the cooling system can lead to overheating.



♠ WARNING

- To avoid scalding, do <u>not</u> open the radiator cap when coolant temperatures are high.
- 1. Check to make sure that the hose bands on the radiator and heater hoses are tightened down. Ensure that the drain bolt is also tightened down.
- 2. Set the heater temperature control lever to 'HOT'.
- 3. Remove the radiator cap and air relief plug.
- 4. Slowly fill the radiator with coolant until full to the brim. Once coolant beings to over flow from the air relief, reinstall the plug, then proceed to fill the radiator to the brim.
- 5. Close the radiator cap and start the engine. Maintain the idle until the thermostat opens.
- 6. Consult the water temperature gauge. Once the temperature has risen beyond the midpoint, check to see whether the thermostat has opened by feeling the lower radiator hose to check that warm coolant is flowing.
- 7. Once you have confirmed that the thermostat has opened, rev the engine to 2000-3000rpm and hold for around 10 seconds, making sure water temperatures stay within acceptable limits. Repeat this step several times.
- 8. Stop the engine.
- 9. After the engine has cooled, open the radiator cap and check the coolant level. If the level has dropped, repeat the above steps.
- 10. When the coolant level no longer drops, fill the coolant reservoir to 'MAX'.

7 CHECKS AND PRECAUTIONS

- 1 Ensure the vehicle is in neutral gear and check that the parking brake is engaged.
- 2) Crank the engine for around 15 seconds but ensure you do not start the engine.
- 3 Start the engine and check for any signs of oil or coolant leaks during idle.
- 4 Stop the engine. Check to make sure that the oil and coolant are at acceptable levels. Be sure to also check the coolant reservoir level.
- 5 Start the engine again and rev to 3000rpm. Thoroughly check for any exhaust leaks and/or abnormal sounds.
- 6 Test drive the vehicle and check to make sure that the turbo is generating pressure/boost.



- By default, the actuator (standalone) is configured to give 1.0kg spring pressure with 2mm of preload applied.
- The actual boost pressure will vary depending on pre-turbo back pressure as well as the surrounding components installed. A boost controller should be used in conjunction to make precise adjustments to boost pressure.
- For details on changing actuator springs, please refer to the included actuator manual.
- Ensure you monitor boost levels using a boost gauge.
- ① Check to ensure all parts are fitted correctly and that there are no oil/coolant leaks.



- Do <u>not</u> turn the engine off immediately after hard driving.
- Ensure you periodically change the engine oil.



- Ensure checks are conducted thoroughly as incorrect fitment and/or loose parts can damage other components.
- Exhaust leaks are not only a health hazard but can also lead to reduced performance.
- Should you notice anything abnormal whilst driving, stop the vehicle immediately and check for faults.
- Make sure all parts have completely cooled before commencing any repair work.
- Should you notice any missing and/or broken parts, do not attempt to restart the engine. Instead, consult a trained professional and follow their instructions.



✓ CAUTION

- The ECU as well as other parts of the vehicle will need to be adjusted/upgraded accordingly.
- Engine parts, fluids and any other related components should be selected carefully.

8. SETUP AND SETTINGS

8.1. TURBOCHARGER SPECIFICATIONS

BX7960

DATOU					
COMPRESSOR WHEEL					
INLET DIA. (mm)	OUTER DIA. (mm)	TRIM	BLADES	MATERIAL	CONSTRUCTION
52. 6	68. 0	60	6	A2618	CNC BILLET
		TURBIN	E WHEEL		
EXIT DIA. (mm)	OUTER DIA. (mm)	TRIM	BLADES	MATERIAL	CONSTRUCTION
54. 0	61.0	79	9	K418	CAST
COMPF	COMPRESSOR HOUSING TURBINE HOUSING				
INLET DIA. (mm)	EXIT DIA. (mm)	A/R	INLET	EXIT	A/R
53. 5	38. 5	0. 62	T25	SR20DET	0. 57

BX8270						
COMPRESSOR WHEEL						
INLET DIA. (mm)	OUTER DIA. (mm)	TRIM	BLADES	MATERIAL	CONSTRUCTION	
59. 0	76. 2	60	6	A2618	CNC BILLET	
TURBINE WHEEL						
EXIT DIA. (mm)	OUTER DIA. (mm)	TRIM	BLADES	MATERIAL	CONSTRUCTION	
58. 8	67. 0	77	9	K418	CAST	
COMPRESSOR HOUSING TURBINE HOUSING						
INLET DIA. (mm)	EXIT DIA. (mm)	A/R	INLET	EXIT	A/R	
60.0	38. 8	0. 62	T25	SR20DET	0. 57	

8 2 ACTUATOR SPRINGS

This product features interchangeable actuator springs, allowing you to set different boost pressures. Use the following information as reference to choose the appropriate spring(s) for your setup.



CHOOSING ACTUATOR SPRINGS

The table on the next page shows the standalone pressure/spring rate of each spring. All pressure/spring rates were measured just as the internal wastegate begins to open. Always ensure you measure and choose the appropriate spring(s) for your particular setup. For details on how to change actuator springs, please refer to the separate actuator manual.

- X The table on the next page shows the standalone pressure/spring rate of each spring with 2mm of preload applied.
- X The table on the next page should be used for reference only as actual boost pressure will vary depending on the setup.
- X A boost controller should be used in conjunction to accurately adjust boost settings. For best results, the boost controller should be used as the main boost control device, with the actuator springs providing a secondary level of adjustment.

HOW TO CHOOSE ACTUATOR SPRINGS (EXAMPLE)



- Clamp/secure the actuator on a stable surface so that it doesn't move.
- Next, set up a dial indicator or similar tool so that you can accurately measure actuator rod travel.
- Using an air compressor and pressure gauge, apply air pressure to the actuator.
- Note the pressure at which the actuator rod begins to move.
- Then, use the following table to choose the appropriate spring(s) for your setup.

STANDALONE	kgf	cm ²	0. 20	0. 4	0. 6	0. 9	0. 65	0. 75
SPRING	Kpa		19. 61	39. 23	58. 84	88. 26	63. 74	73. 55
PRESSURE	PSI		2. 84	5. 69	8. 53	12. 80	9. 25	10. 67
POSITIONI	NG		INNER	INNER	MIDDLE	MIDDLE	OUTER	OUTER
P/N			TB401B	TB401B	TB401B	TB401B	TB401B	TB401B
			-SPR07	-SPR08	-SPR09	-SPR10	-SPR11	-SPR12
COLOR			BLACK	SILVER	PURPLE	RED	PINK	BLUE
SIZE	0. D (m	ım)	29	29	36. 5	36. 5	44	44
	LENGTH	l (mm)	32	36	43	52	57	68
CONFI	GURED PRE	SSURE						
kgf/cm ²	Kpa	PSI						
0. 20	19.61	2. 84	0. 20					
0.40	39. 23	5. 69		0. 40				
0.60	58. 84	8. 53			0. 60			
0. 65	63. 74	9. 25					0. 65	
0. 75	73. 55	10. 67						0. 75
0.80	78. 45	11. 38	0. 20		0. 60			
0. 85	83. 36	12. 09	0. 20				0. 65	
0. 90	88. 26	12. 80				0. 90		
0. 95	93. 16	13. 51	0. 20					0. 75
1.00	98. 07	14. 22		0. 40	0. 60			
1.05	102. 97	14. 93		0. 40			0. 65	
1.10	107. 87	15. 65	0. 20			0. 90		
1. 15	112. 78	16. 36		0. 40				0. 75
1. 25	122. 58	17. 78			0. 60		0. 65	
1.30	127. 49	18. 49		0. 40		0. 90		
1. 35	132. 39	19. 20			0. 60			0. 75
1. 45	142. 20	20. 62	0. 20		0. 60		0. 65	
1. 55	152. 00	22. 05	0. 20		0. 60			0. 75
1. 55	152. 00	22. 05				0. 90	0. 65	
1. 65	161.81	23. 47		0. 40	0. 60		0. 65	
1. 65	161.81	23. 47		-	-	0. 90		0. 75
1. 75	171. 62	24. 89	0. 20	-	-	0. 90	0. 65	
1. 75	171. 62	24. 89		0. 40	0. 60	-		0. 75
1. 85	181. 42	26. 31	0. 20			0. 90		0. 75
1. 95	191. 23	27. 74		0. 40		0. 90	0. 65	
2. 05	201. 04	29. 16		0. 40		0. 90		0. 75

8.3. ADDITIONAL/RECOMMENDED PARTS

8.3.1. TOMEI PARTS



HEAD GASKET	
HEAD GASKET KA24DE 90.0-0.6mm	TA4070-NS16A
HEAD GASKET KA24DE 90.0-1.0mm	TA4070-NS16B
HEAD GASKET KA24DE 90.0-1.2mm	TA4070-NS16C
HEAD GASKET KA24DE 90.0-1.5mm	TA4070-NS16D

Forced induction greatly increases the combustion pressure, which often causes stock head gaskets to 'blow'. To avoid this, choose a head gasket to suit your setup/desired CR.



CAMSHAFTS	
PONCAM KA24DE IN 270-9.8mm	TA301C-NS16A
PONCAM KA24DE EX 270-9.8mm	TA301E-NS16A

Installing longer duration camshafts helps increase exhaust pressure. This allows the turbo to spool faster, improving both response as well as peak power output.



VALVE SPRINGS VALVE SPRING KA24DE TA301C-NS16A

To take full advantage of using high lift, longer duration camshafts, the valve springs should also be upgraded. These springs help ensure the precise actuation of the valve springs in relation to the camshaft profile.



FUEL PUMP
FUEL PUMP 255L/H DISCONTINUED

Injector capacity \times No. of cylinders \times 0.06 = Flow rate req. With longevity in mind, ensure you choose a fuel pump that will be operating at around $80 \sim 90\%$ capacity.



FUEL PRESSURE REGULATOR

FUEL PRESSURE REGULATOR TYPE-S

TB507A-0000A

The fuel pressure will also need to be adjusted to match the fuel pump.

The initial pressure is set at 3kg/cm².



FUEL PRESSURE GAUGE

FUEL PRESSURE GAUGE

TB510A-0000A

This is needed to measure fuel pressure.



TURBINE OUTLET PIPE

TURBINE OUTLET PIPE KIT EXPREME SR20DET

TB6020-NS08C

Turbocharging or converting to a SR20DET turbo layout will require a turbo outlet/elbow to be installed. Installing a large, high flow unit improves turbo spool and response as well as helping to deliver stable boost.



MID PIPE

MID PIPE KIT EXPREME TI FULL TITANIUM NISSAN TYPE-A

TB6100-NS00A

Turbocharging or converting to a SR20DET turbo layout will require the stock catalytic converter to be replaced.

Installing this item will allow for even more power to be generated.



EXHAUST

MUFFLER KIT EXPREME TI FULL TITANIUM S14 SR20DET

TB6090-NS08B

Turbocharging or converting to a SR20DET turbo layout will require the exhaust to be replaced. Like the outlet/elbow, installing a large, high flow exhaust improves turbo spool and response as well as top end power.

8. 3. 2. OTHER PARTS

DOWN PIPE

Turbocharging or converting to a SR20DET turbo layout will require a down pipe to be installed. Choose one that best suits the vehicle's setup and/or intended use.

INJECTORS

Target BHP ×5.9÷No. of cylinders = Required injector flow rate (per cylinder)

To ensure consistent fuel atomization, injectors ideally need to operate at around 80~90% capacity.

FUEL RAIL

The fuel rail may need to be replaced/upgraded depending on injector type and/or size.

ECU

Must be usable <u>without</u> MAF.

An ECU will need to be installed and mapped to suit the setup.

(ENGINE) WIRING HARNESS

An aftermarket harness may need to be installed to suite the new setup.

The TOMEI USA 240SX uses a Wiring Specialties S14 KA24DE OEM replacement harness, compatible with:

1995-1996 240sx USDM Manual

1995-1996 240sx USDM Automatic

1995-1996 240sx USDM Automatic, converted to Manual

Link: http://www.wiringspecialties.com/s14-ka24de-parts/

BOOST CONTROLLER

A boost controller is needed to adjust boost settings.

BOOST GAUGE

A boost gauge is required in order to monitor boost levels.

A/F METER

An A/F meter will allow you to monitor the A/F ratio.

DATA LOGGER

A data logger collects various engine data which can then be used for optimizing the setup.

8.3.3. OPTIONAL PARTS DEPENDING ON SETUP

■ FORGED PISTONS

■ PERFORMANCE CONNECTING RODS

■ SPARK PLUGS

■ RADIATOR

■ OIL COOLER

These parts may need upgrading/replacing depending on the engine power, boost levels and/or intended vehicle use.

Always use, high performance upgrades/replacements

where possible.

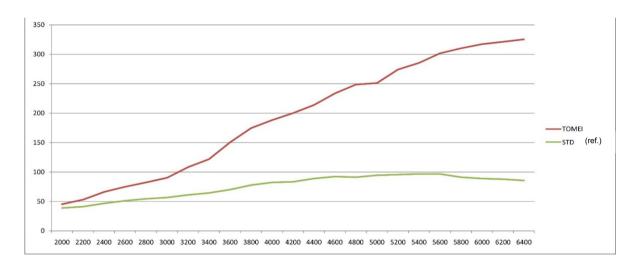
9. TOMEI 240SX KA24DET SPECIFICATIONS



BORE × STROKE	89.5mm × 96.0mm
DISPLACEMENT	2414.8cc
COMPRESSION RATIO	9.0:1
BOOST	1.0kg/cm ²

PISTONS	TOMEI PROTOTYPE 89.5mm
CONNECTING RODS	TOMEI PROTOTYPE
CRANKSHAFT	NISSAN STD
MAIN BEARINGS	NISSAN STD
CONNECTING ROD BEARINGS	NISSAN STD
HEAD GASKET	TOMEI 90.0-1.0mm
IN CAMSHAFT	TOMEI 270-9.8mm
EX CAMSHAFT	TOMEI 270-9.8mm
CAM SPROCKETS	NISSAN STD
VALVES	NISSAN STD
VALVE SPRINGS	TOMEI
VALVE SPRING RETAINERS	NISSAN STD
HEAD STUDS	ARP 202-4304
TURBOCHARGER	TOMEI ARMS M8270
INJECTORS	INJECTOR DYNAMICS 725-48-14
FUEL RAIL	RADIUM 20-0157
FUEL PUMP	TOMEI UNIVERSAL 255L/h
FUEL PRESSURE REGULATOR	TOMEI TYPE-S
FUEL PRESSURE GAUGE	TOMEI
SPARK PLUGS	DENSO IK24
SPARK PLUG WIRES	CUSTOM MADE ULTRA BLUE POINT POWER PLUG WIRES
ECU	HALTECH PLATINUM SPORTS 1000
ENGINE/WIRING HARNESS	WIRING SPECIALTIES
DATA LOGGER/DASH DISPLAY	RACEPAK IQ3

A/F METER	PLX DM-6
INTERCOOLER	GREDDY SPEC-LS TYPE-24E
INTERCOOLER PIPING	TOMEI
THROTTLE BODY	NISSAN STD
INTAKE MANIFOLD	NISSAN STD
RADIATOR	KOYO 1751
RADIATOR HOSE	CIRCUIT SPORTS / MEGAN RACING
THERMOSTAT	NISSAN STD
AIR INTAKE	GREDDY SUCTION KIT Φ80 (w/ο MAF)
EXHAUST MANIFOLD	TOMEI EXPREME
TURBO OUTLET/ELBOW	TOMEI EXPREME TURBO OUTLET for SR20DET
DOWN PIPE	TOMEI PROTOTYPE
CATALYTIC CONVERTER	TOMEI EXPREME TI MID PIPE NISSAN TYPE-A
EXHAUST	TOMEI EXPREME TI for SR20DET S14
ENGINE OIL	WAKO'S 4CR
FUEL	100 OCTANE





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10:00 - 19:00 PST

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