

# **GRReddy**®

## ***GRReddy Intercooler Kit***

(Type 28C)

2002 Subaru WRX Impreza (GDA - GDB)



## 2002 Subaru WRX Impreza (GDA - GDB))

### Installation Manual

**Please read the entire manual before installing this kit.**

**Application:**

Make	Model	Chassis	Year
Subaru	Impreza	GDA - GDB	2002

● This *Greddy Intercooler Kit* is designed only for the vehicles specified above.

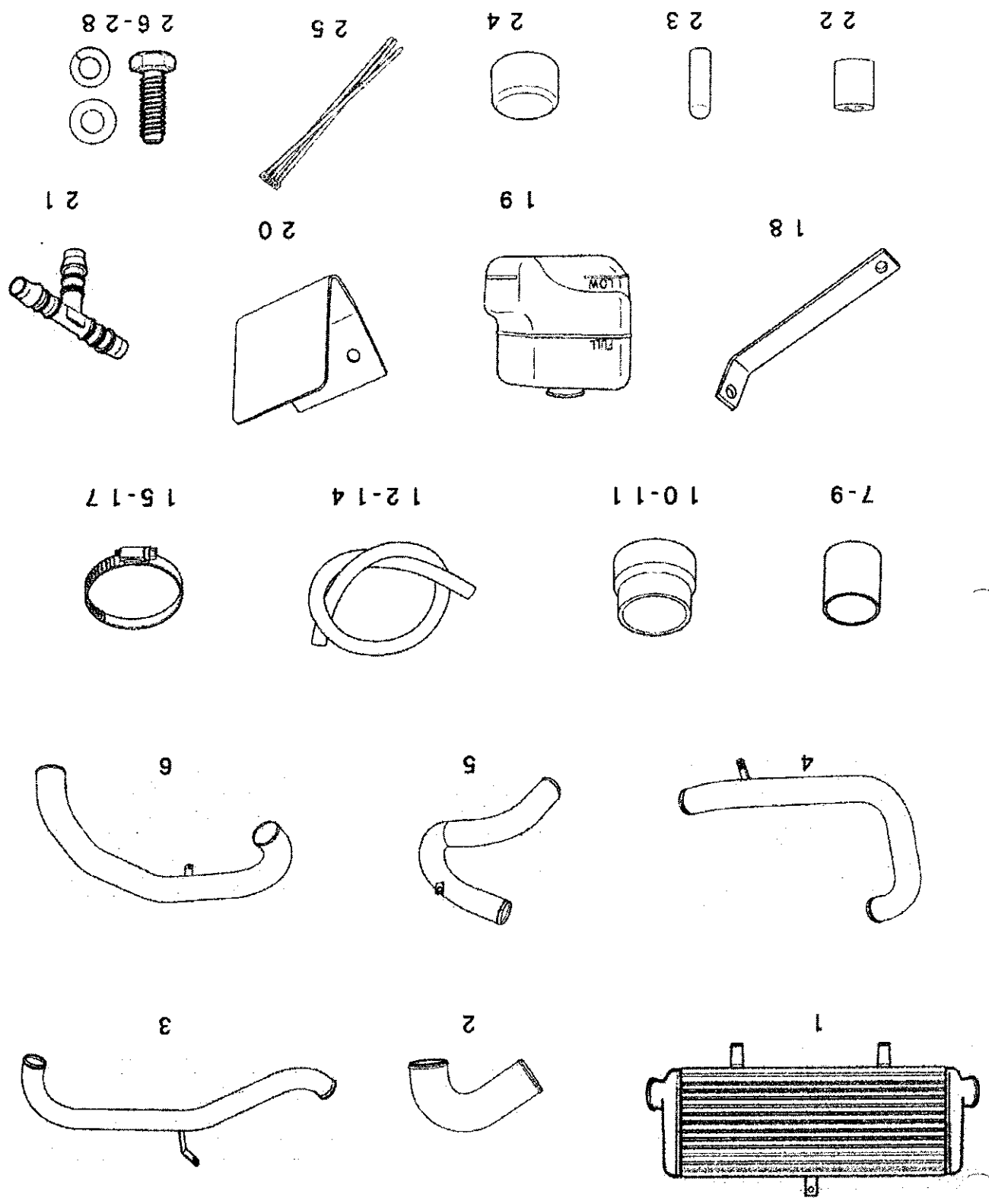
● This kit requires **Greddy Airinx Kit part #12561006** for proper installation.

● This kit also requires some body modification in order to fit the intercooler on the front of the vehicle.

● This product is legal for sale or use in CA only vehicle, which may never be driven on a public highway.

## 1. Parts List

1.	Intercooler	(TYPE 28C)							1
2.	Intake Pipe	I_1	(50φ 30R 120° Aluminum No.6)						1
3.	"	I_2	(Aluminum 50φ)						1
4.	"	I_3	(Aluminum 60φ)						1
5.	"	I_4	(Aluminum 60φ)						1
6.	"	I_5	(Aluminum 70φ)						1
7.	Hose	50φ×70mm							2
8.	"	60φ×70mm							2
9.	"	70φ×70mm							1
10.	Reducer Hose	50φ-60φ							1
11.	"	60φ-70φ							1
12.	Rubber Hose	7φ×850mm							2
13.	"	8φ×260mm							2
14.	"	12φ×570mm							1
15.	Hose Band	50φ #32							5
16.	"	60φ #36							6
17.	"	70φ #44							3
18.	Airinx Bracket								1
19.	Coolant Reservoir Tank								1
20.	Coolant Reservoir Tank Bracket								1
21.	3 Way Joint	12φ							1
22.	Aluminum Spacer	(t=20)							1
23.	6φ Rubber Plug								1
24.	30φ "								1
25.	Zip Ties	150mm							10
26.	6mm×15mm	P1.0	Stainless B	S/W	F/W	—			1
27.	6mm×25mm	P1.0	Stainless B	S/W	F/W	—			1
28.	8mm×40mm	P1.25	Stainless B	S/W	F/W	—			1



1. Parts List

## 2. Removal of Stock Parts

Please refer to the factory service manual for proper stock parts removal.

- 2 \_ 1 Disconnect the negative terminal of the battery.
- 2 \_ 2 Remove the front grill.
- 2 \_ 3 Remove the front bumper and the bumper reinforcement.
- 2 \_ 4 Remove the air intake chamber, air cleaner, airflow meter, and resonator.
- 2 \_ 5 Remove the intercooler assembly, inlet hose, outlet hose, blow-by tube, and the air bypass valve.
- 2 \_ 6 Remove the coolant reservoir tank and the left electric fan.

## 3. Kit Installation

### 3 \_ 1 Installation of the Intercooler core

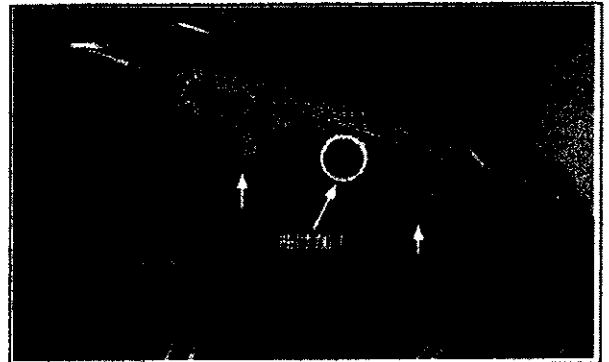
- (1) Using the provided 20mm aluminum spacer and M8x40mm bolt, mount the top of the intercooler to the bottom of the hood lock as shown.

<Part No. 1 . 2 2 . 2 8 >



- (2) Secure the bottom bracket to the body using the factory 8mm bolts as shown. If the intercooler core hits the area circled in the picture, bent the body away from the core.

< Part No. 1 9 . 2 0 . 2 1 >

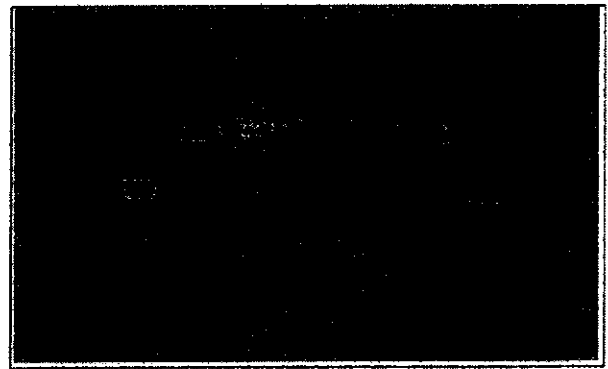


### 3\_2 Modification of Stock Parts

- (1) Cut out the bumper reinforcement to clear the intercooler core and the piping.

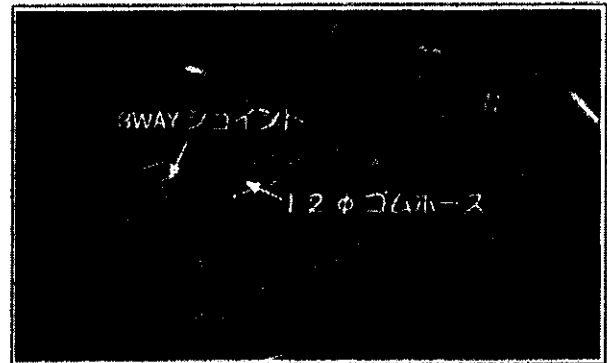
※After the piping installation, check to make sure that the piping does not contact the bumper reinforcement.

When cutting and grinding, always use safety glasses.



- (2) Reinstall the blow-by hose using the provided 12mm hose and a 3 way joint as shown.

< Part No. 1 4 . 2 1 >



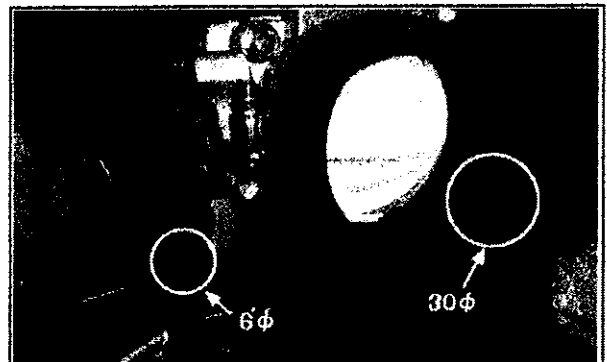
- (3) Remove the fuel line shown in the picture and replace it with the provided hose as shown. Make sure that this hose clears the I-5 piping. Use the stock hose clamp.

< Part No. 1 3 >

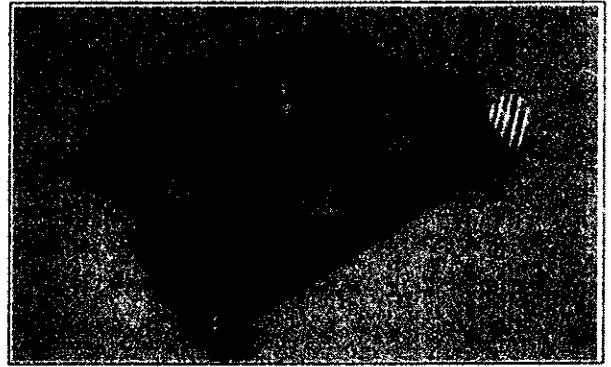


- (4) Plug up the air bypass inlet and the pressure source with the provided rubber plug.

< Part No. 2 3 . 2 4 . 2 5 >



(6) Modify the electric fan. Cut the shaded area of the fan housing shown.

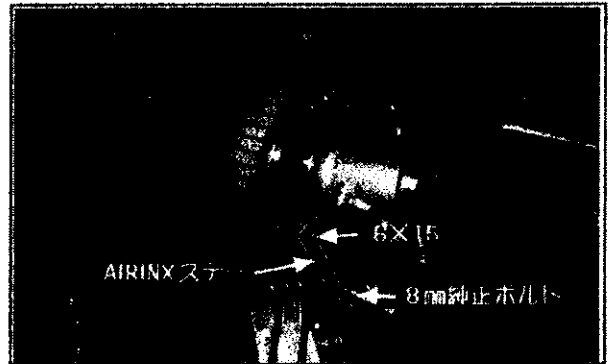


(7) Remove the cover in front of the right strut tower, and free the top wire connector off from the bracket.



(8) Using the provided Airinx bracket, mount the Airinx assembly to the factory air cleaner box mounting hole using factory bolts as shown.

< Part No. 1 8 . 2 6 >



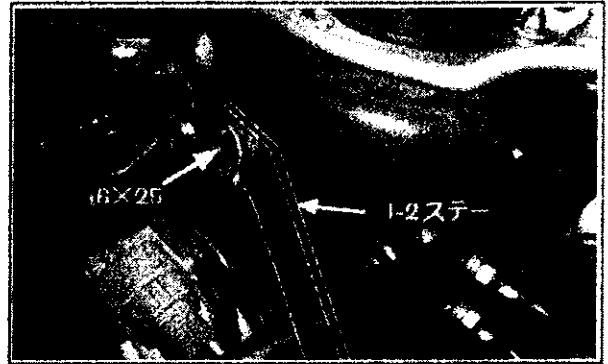
### 3\_3 Installation of the intercooler inlet piping

(1) Install the intercooler piping from the turbo outlet to the intercooler inlet using I-1~ I-3.

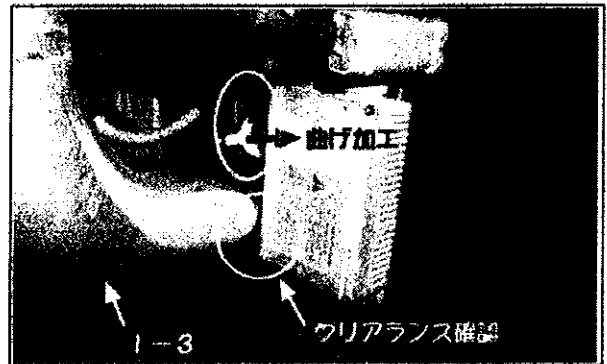
< Part No. 2 . 3 . 4 . 7 . 8 . 1 0 . 1 5 . 1 6 >



- (2) Secure the bracket on the I-2 pipe to the right strut tower shown using M6x25mm bolt.  
 < Part No. 3 . 2 7 >



- (3) Bend the air chamber mounting bracket away from the piping. Also for vehicles equipped with a HID unit (Japanese spec), relocate the control box away from the piping by bending the bracket.



- (4) Secure the bracket on the I-3 pipe to the bumper reinforcement as shown.  
 < Part No. 4 >



- (5) After checking for proper clearance of the piping, tighten the hoses and the bolts on the brackets.

< Part No. 2 . 3 . 4 . 7 . 8 . 1 0 . 1 5 . 1 6 . 2 7 >



### 3\_4 Installation of the intercooler outlet piping

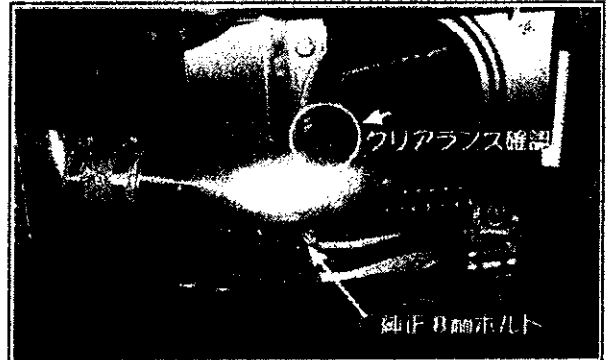
- (1) Install the intercooler piping from the intercooler outlet to the throttle body using I-4~I-5.

< Part No. 5. 6. 8. 9. 11. 16. 17 >



- (2) Secure the bracket on the I-4 pipe to the bumper reinforcement as shown.

< Part No. 5 >



- (3) Secure the bracket on the I-5 pipe to the intake manifold where the stock intercooler kit was mounted as shown using the stock 8mm bolt.

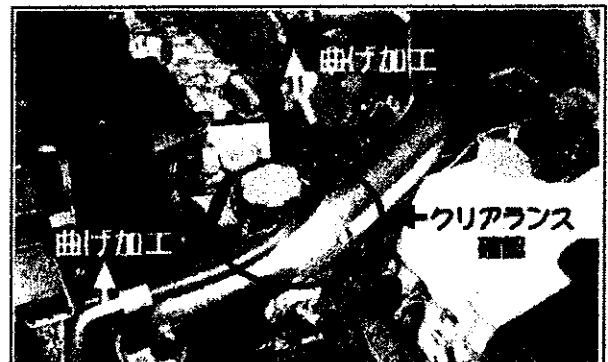
< Part No. 6 >



- (4) After checking for proper clearance of the piping, tighten the hoses and the bolts on the brackets.

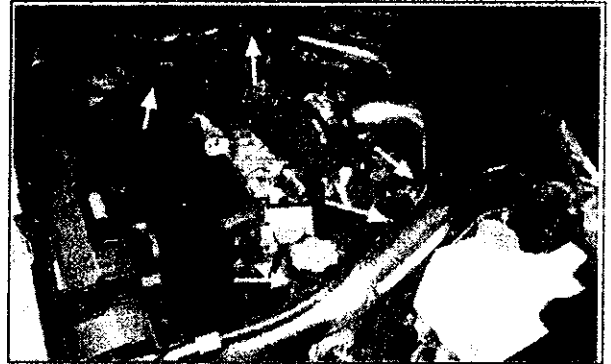
※If the piping contacts the A/C line, bend the A/C line away from the piping. Also make sure that the fuel line or wire harness does not rub up on the piping.

< Part No. 5. 6. 8. 9. 11. 16. 17 >



(5) Zip tie the wire harness that was freed in step 3-2 (7).

< Part No. 2 5 >



### 3\_5 Installation of the Coolant Reservoir Tank

(1) Install the reservoir tank bracket to the mount on the firewall with the ground wire as shown.

< Part No. 2 0 >



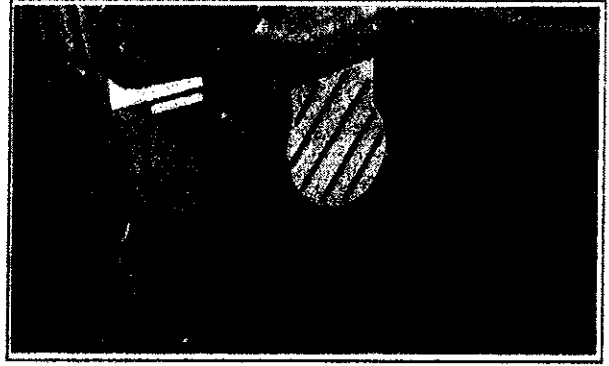
(2) Install the reservoir tank to the bracket and connect the provided 7mm hose as shown. Secure the hose with zip ties.

< Part No. 1 2 . 1 9 . 2 5 >

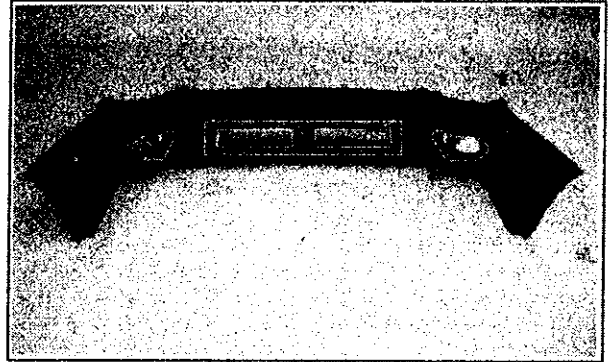


## 4 . Reinstallation of the Stock Parts

- (1) Cut out the shaded area of the front under mudguard shown in the picture to route the I-4 piping through.



- (2) Cut out the shaded area of the front bumper shown in the picture to clear the intercooler and the piping.



- (3) Reinstall the front grill.
- (4) Reconnect the negative terminal of the battery.
- (5) Turn the ignition to "ON" position and check for any fuel leaks. If there is no leak, start the engine and check for water, air and fuel leak again.

**This completes the installation of this kit.**