

# ***GR*Reddy®**

## ***GR*Reddy Intercooler Kit**

**(Type 31)**

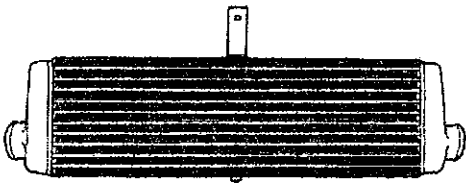
1997-99 Honda Prelude



# 1. Parts List

(1)	Intercooler	(Type 31C)			1
(2)	Intake pipe	I-1 (50Ø aluminum)			1
(3)	"	I-2 (Aluminum elbow No.80)			1
(4)	"	I-3 (60Ø Aluminum)			1
(5)	"	I-4 (60Ø Aluminum)			1
(6)	Hose	50Ø x 70mm Straight			2
(7)	"	60Ø x 70mm Straight			3
(8)	"	10Ø x 2660mm			1
(9)	Hose band	10Ø #5			5
(10)	"	50Ø #32			4
(11)	"	60Ø #36			7
(12)	Bracket	A (Upper I/C)			1
(13)	"	B (Lower I/C)			1set
(14)	"	C (Power Steering Cooler)			1
(15)	"	D ( A/C line)			1
(16)	Power steering cooler				1
(17)	10Ø Aluminum tube				1
(18)	Power steering cooler clamps				1
(19)	Zip ties				10
(20)	6mm x 15mm	P=1.0	Stainless	B S/W F/W	3
(21)	6mm x 15mm	P=1.0	Stainless	B S/W F/W N	1
(22)	8mm x 15mm	P=1.25	Stainless	B S/W F/W	2
(23)	8mm x 15mm	P=1.25	Stainless	B S/W F/W N	2

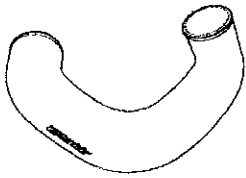
**Parts List**



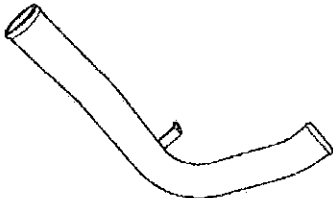
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2



3



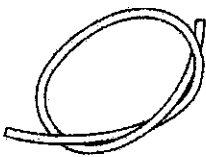
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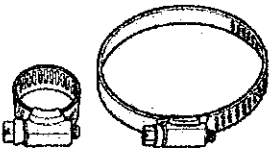
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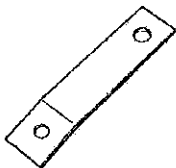
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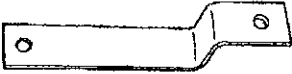
9-11



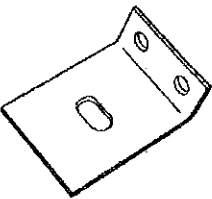
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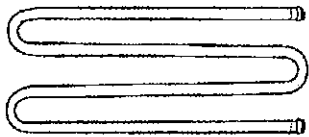
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14



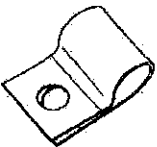
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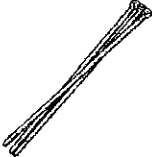
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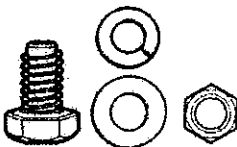
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18



19



20-23

## 2. Removal of Stock Parts

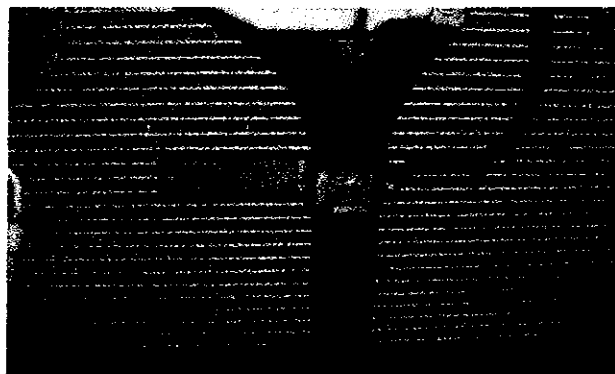
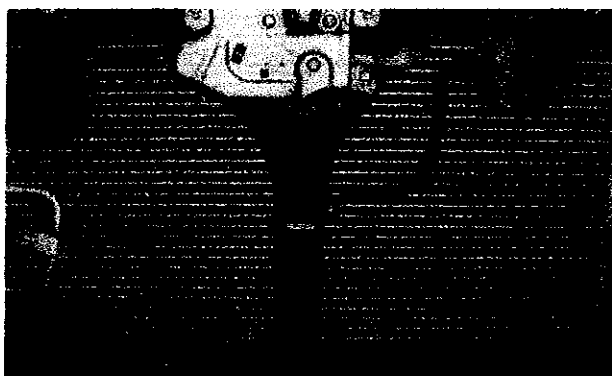
When removing the stock parts, make sure you read over the factory repair manual for proper procedures.

- 2-1 Disconnect the negative side of the battery.
- 2-2 Remove the undercover, and the front bumper.
- 2-3 Remove the bumper support beam.
  - (1) Remove the Power steering cooler and oil line.
  - (2) Remove the A/C receiver bracket.
  - (3) Remove the left hand side tow hook.

## 3. Kit Installation

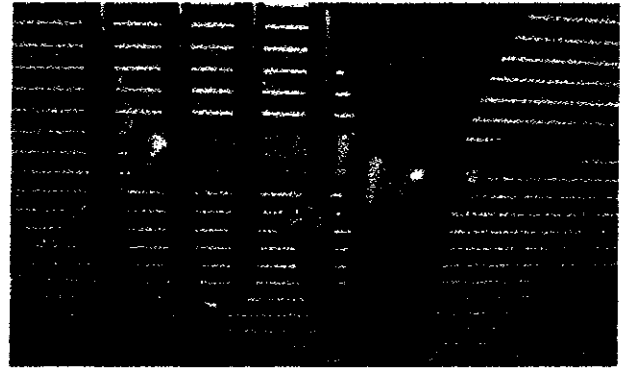
- 3-1 Power steering cooler installation
  - (1) Install the P/S bracket as shown.

(Parts used #14,20)



(2) Install the provided power steering cooler to the bracket.

(Parts used #16,18)

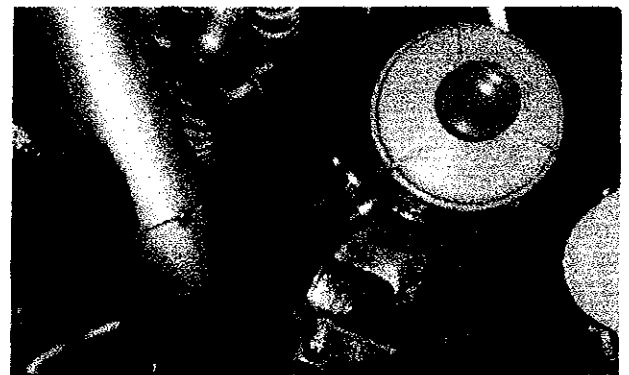


(3) Cut the provided 10Ø hose and connect the power steering hose to the reservoir and steering rack.

950mm - Reservoir and cooler

1710mm - Cooler to steering rack.

(Parts used #16,18)



### 3-2 A/C receiver tank relocation

Relocate the tank over to the left using the provided bracket and hose clamp.

(Parts used #11, 15)

### 3-3 Intercooler Installation

- install the upper I/C bracket as shown

(Parts used #12, 23)



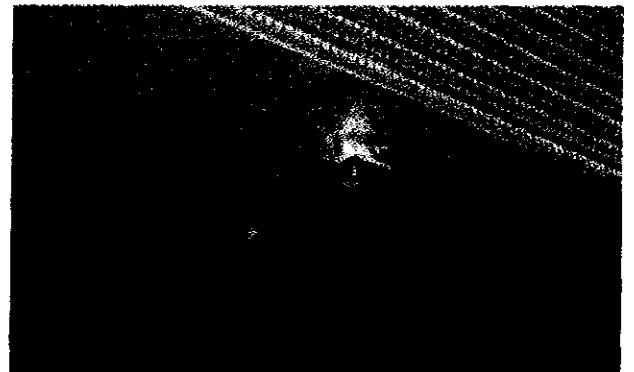
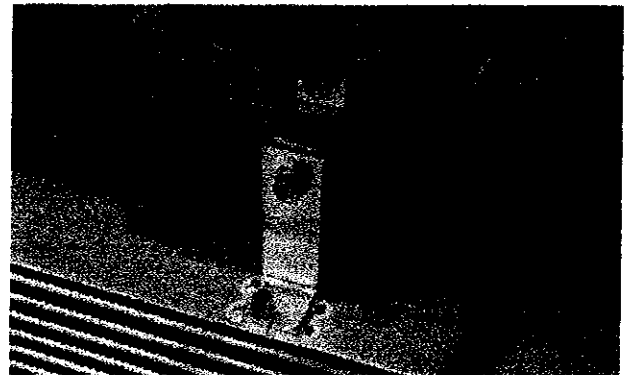
- Install the lower I/C bracket as shown

(Parts used #13, 20)



- Mount the Intercooler to the two bracket that was installed in the previous steps.

(Parts used #1, 22, 23)

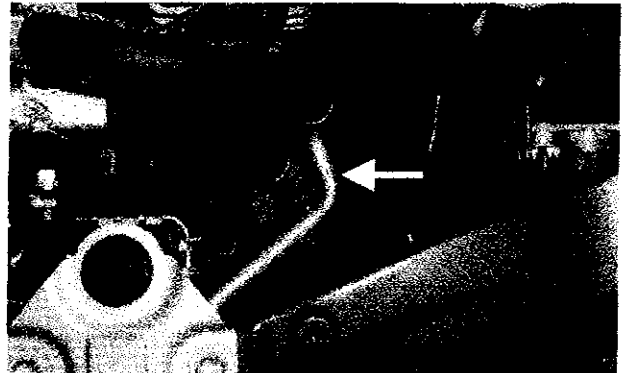


### 3-4 Intake Pipe Installation

(1) Rotate the aluminum elbow on the turbo outlet that is included in the turbo kit 180° as shown.

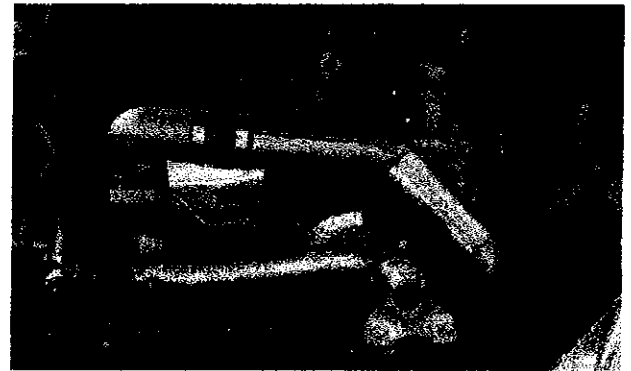


2. Move the A/C line in front of the alternator to the left as shown with an arrow to make room for the intake pipe.

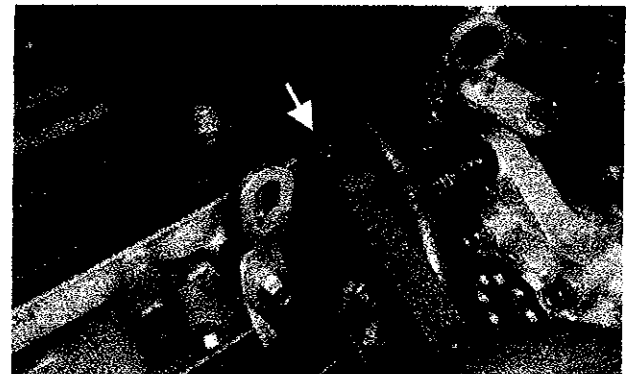


3. Install the Intake pipe I-1 to the aluminum elbow in step 3-4 (1) as shown. If the A/C line still hits the pipe, move them over more.

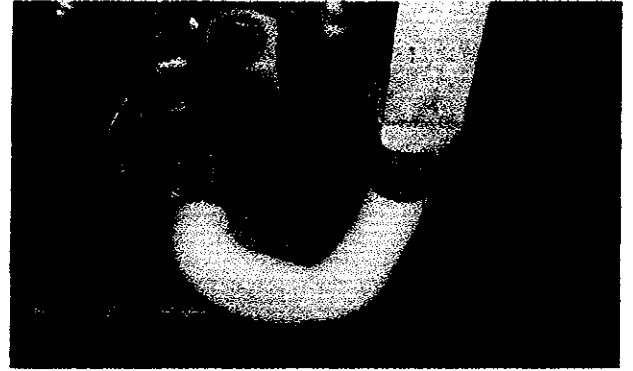
(Parts used #2, 3, 6, 7, 10, 11)



\*Secure the Intake pipe I-1 to the cylinder head as shown.



4. Install the Intake pipe I-2 between I-1 and the intercooler inlet as shown.



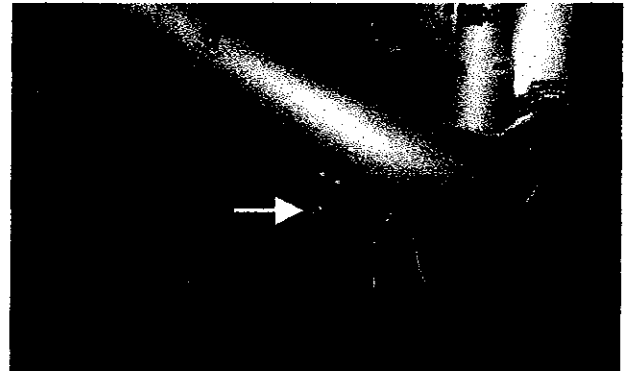
### 3-5 Intake Pipe Installation

- (1) Install the Intake pipe I-3 and I-4 between the intercooler and throttle body as shown.

(Parts used #4, 5, 7, 11, 20)



\*Secure the I-3 pipe to the body as shown.

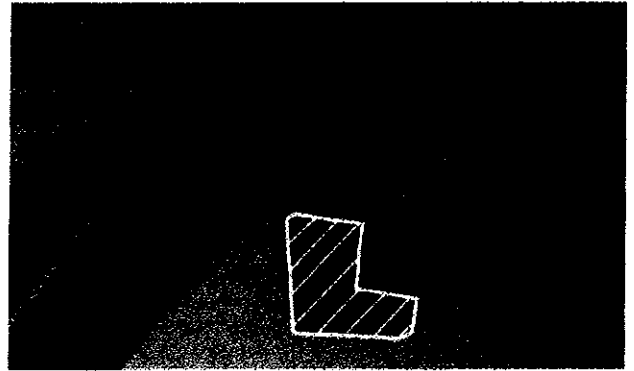




### 3-6 Bumper reinforcement modifications

1. Cut the shaded area shown. (Left and right side)

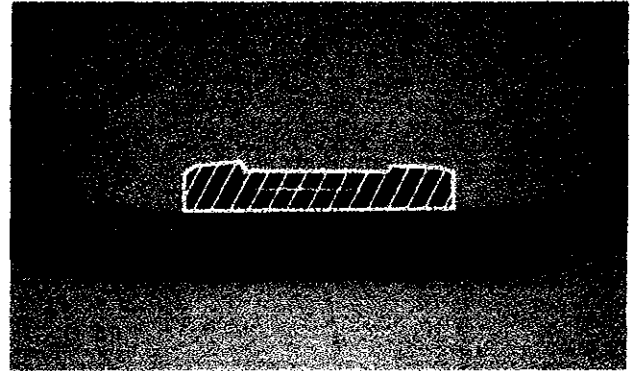
- Always wear a protective eye wear when cutting and grinding.
- Be sure to deburr the edges. Paint the exposed metal to prevent any rusting.



2. Remove the damper on the reinforcement as shown.

- Always wear a protective eye wear when cutting and grinding.
- Be sure to deburr the edges. Paint the exposed metal to prevent any rusting.

3. After the modifications, reinstall the bumper reinforcement.



### 3-8 Front Bumper Installation

Reinstall the front bumper using original bolts.

#### Starting the Engine

- (1) Check all the pipe and hose connections, then reconnect the negative side of the battery.
- (2) Start the engine. While idling, check for any air leaks.
- (3) After inspection, reinstall the front bumper, under cover and other stock parts that was removed.
- (4) Secure the bottom of the bumper with the intercooler bracket.
- (5) Make sure that all the lamps work properly.

**This completes the Intercooler Kit installation.**