

# **PARTE 7**

## **DOCUMENTOS DIVERSOS**

**RALIS**

**B**

## Main differences between Mitsubishi Lancer Evo 7 / Evo 8 Principales différences entre Mitsubishi Lancer Evo 7 / Evo 8

		Evo 7	Evo 8
Bouclier avant	Front Bumper		
Longueur hors tout	Overall length	4443mm	4490mm
Porte à faux avant	Front overhang	883mm	930 mm
Voie maximum (avant)	Maximum Track (front)	1515mm	1520mm
Voie maximum (arrière)	Maximum track (rear)	1515mm	1525mm
Bielles (poids)	Connecting rods / weight	619g	618g
Vilebrequin (poids)	Crankshaft (weight)	13800g	13380g
Piston (poids)	Piston (weight)	457g	476g
Ressort de soupapes / admission	Valve spring / intake	different between/entre Evo 7 and/et Evo 8	
Ressort de soupapes / échappement	Valve spring / exhaust	different between/entre Evo 7 and/et Evo 8	
Pompe à eau	Water pump		
Nombre de ventilateurs	Number of cooling fan	1	2
Climatisation	Air conditioning	NO	YES
Boîte de vitesse	Gearbox	5 speed gearbox	6 speed gearbox
Aileron arrière	Rear aerodynamic device	Possible to adjust	Not possible to adjust
Réservoir d'essence	Fuel tank capacity	50.5 L	52 L
Coque	Bodyshell		

# Main differences between Mitsubishi Lancer Evo 8 / Evo 8MR

1-

	A-5660	A-5673
	Lancer Evo VIII	Lancer Evo VIII MR
Bodyshell	front fender / bonnet: Aluminium alloy	front fender / bonnet / <b>roof</b> : Aluminium alloy
Opening system for side windows	Manual	<b>Electric</b>

Min. Weight	1300 Kg	1310 Kg
Piston min. Weight	476g	485g
Piston groove volume	6,3	4,0
Thickness of tightened cylinderhead gasket	0,79	1,18
Camshaft: timing		different from A-5660

2- Various :

## Engine Oil Cooler

Evo VIII

View1(Front View)



Evo VIII MR



View2(Rear View)



10 flow Tubes



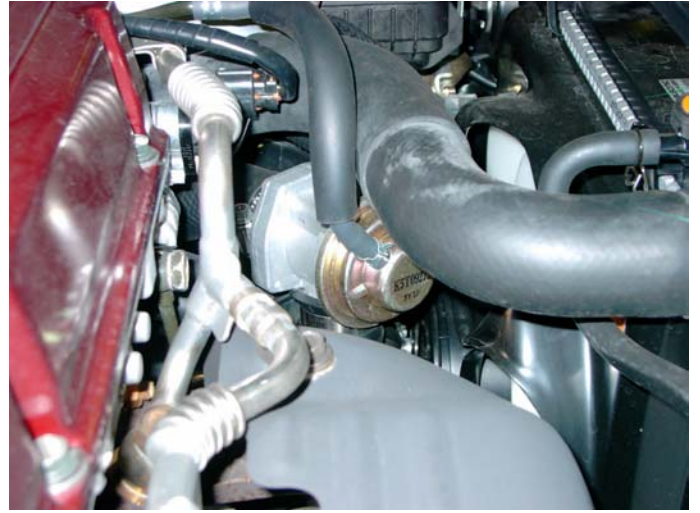
12 flow

**Air Bypass Valve**

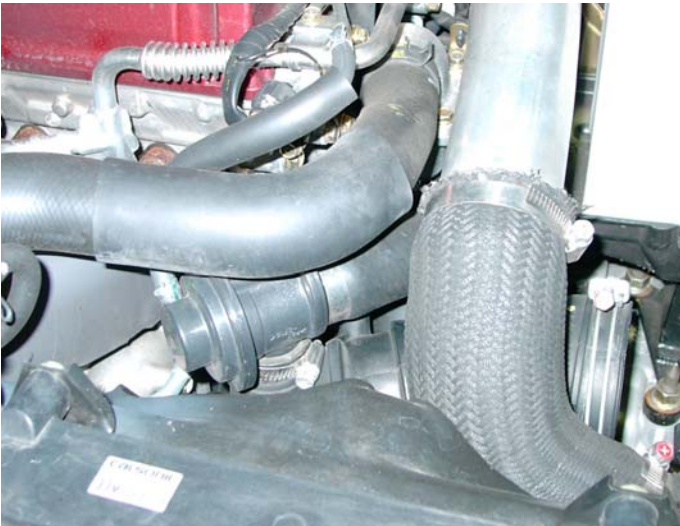
View1 EvoVIII (Part Number:MR450378)



EvoVIII MR (Part Number:1545A001)



View2

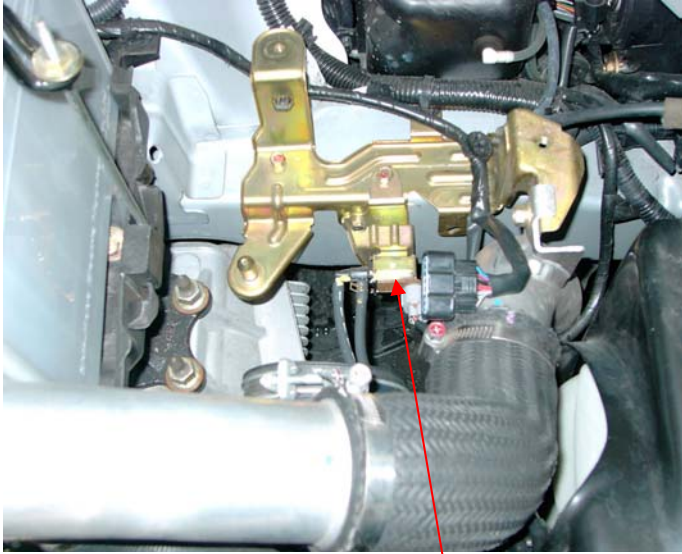


**Solenoid Valve**

View1

Single Solenoid valve

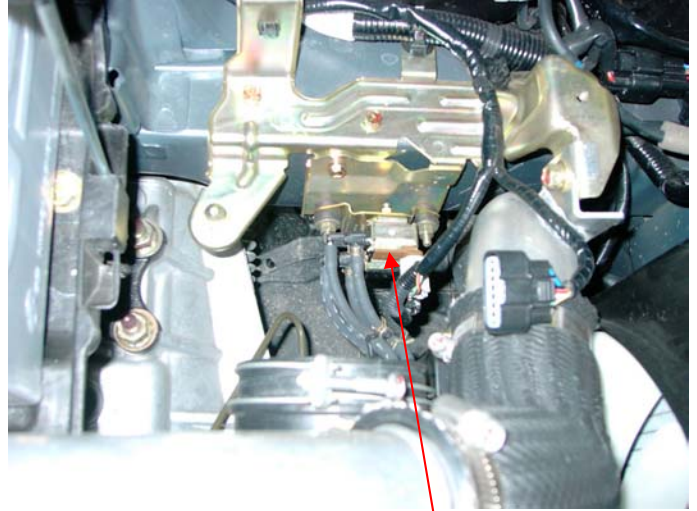
Evo VIII



Single

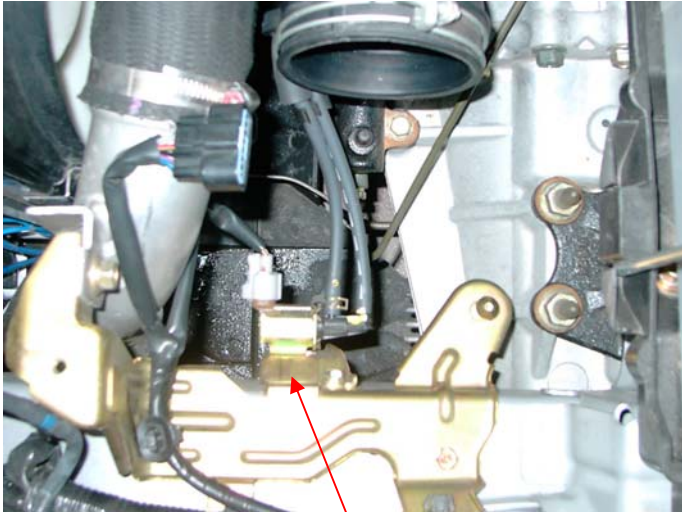
Twin Solenoid valve

Evo VIII MR

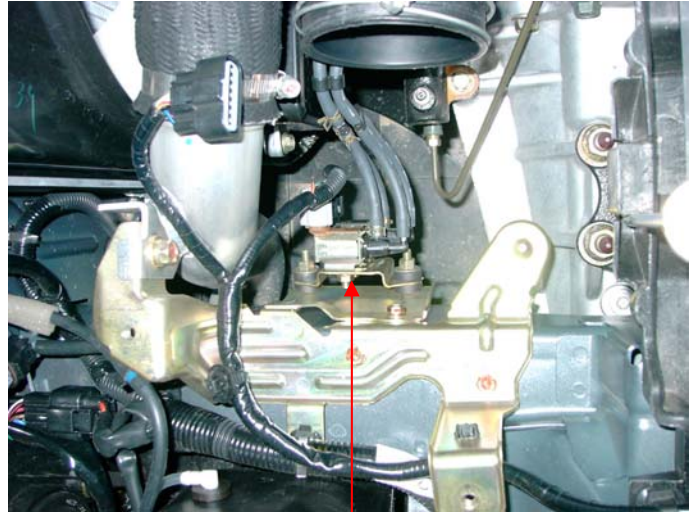


Twin

View2



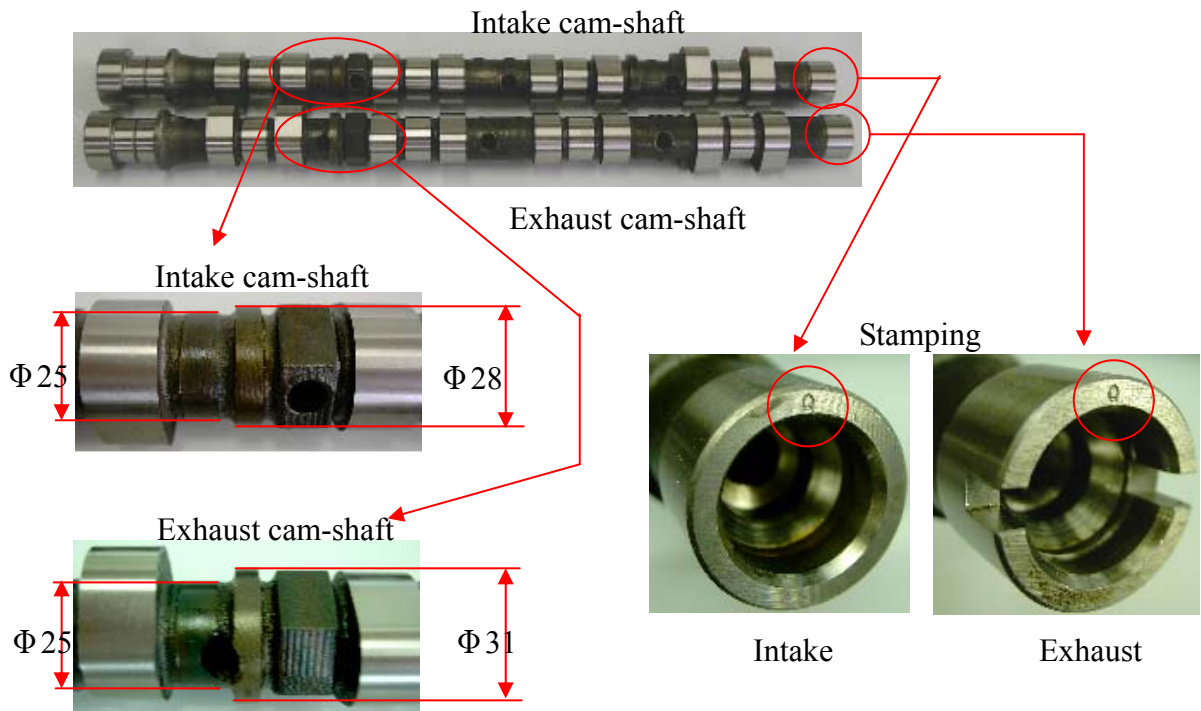
Single



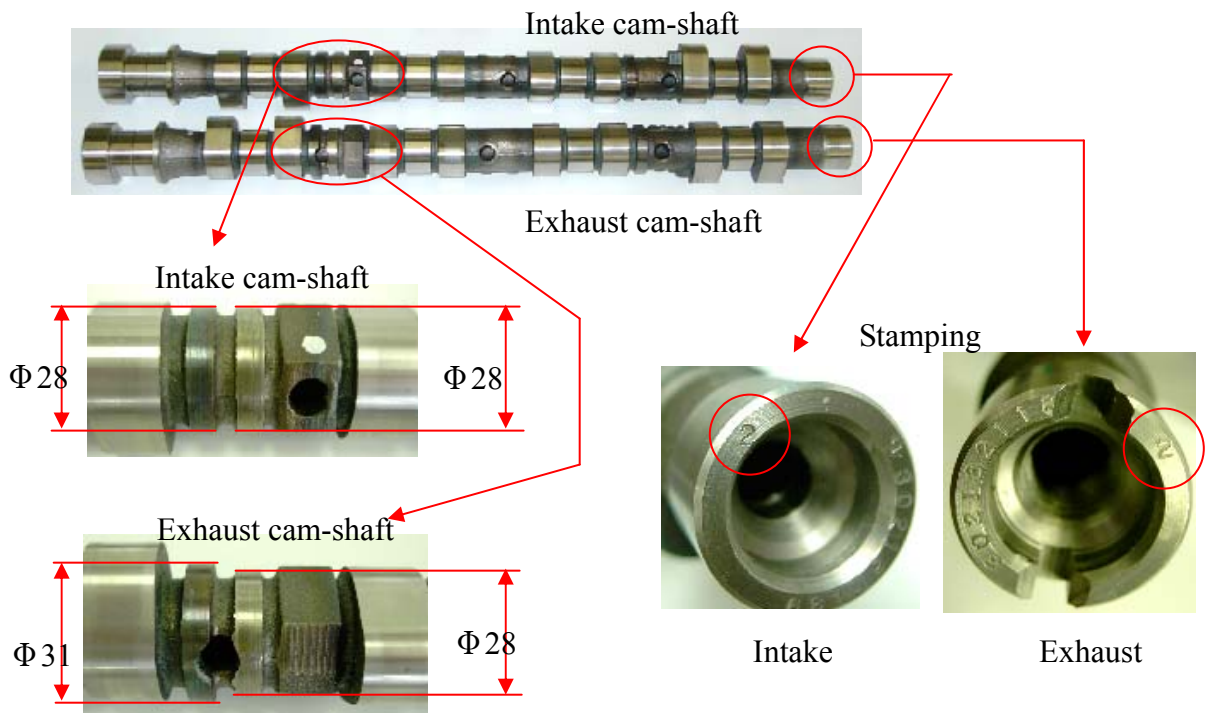
Twin

**Cam Shaft**

**LANCER EVOLUTION VIII MR**



**LANCER EVOLUTION VIII**



**Turbocompressor**

**Evo8(Twin Valves)**



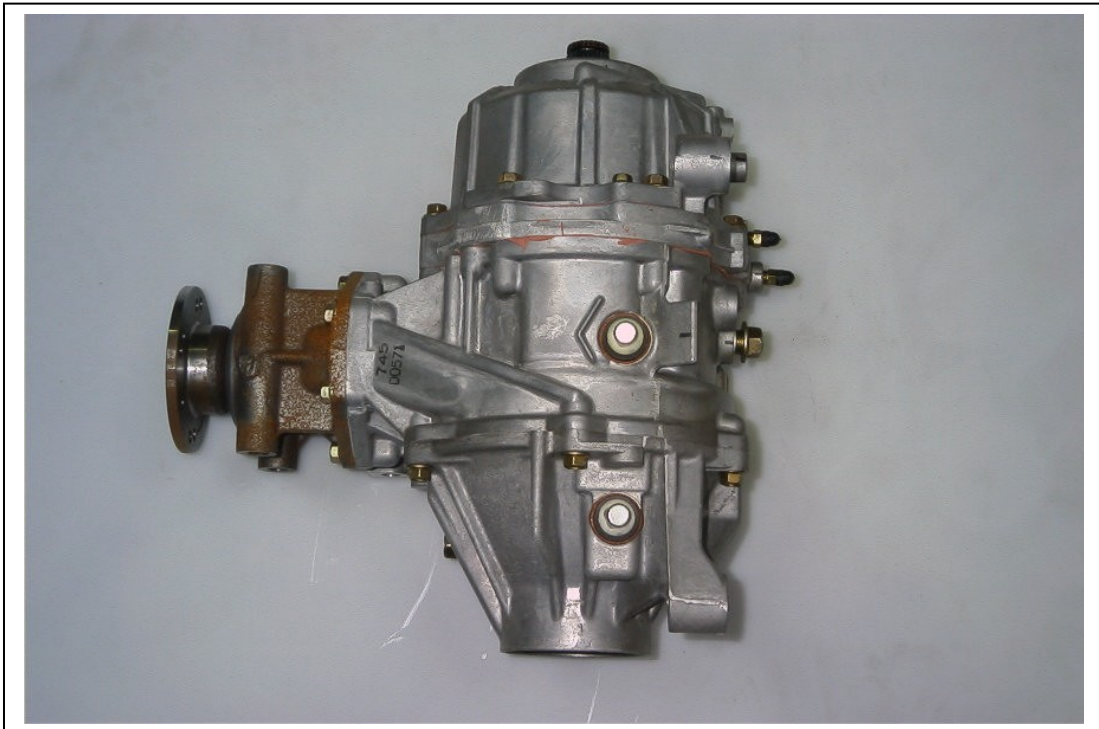
**Evo8MR(Single big Valve)**



Rear differential – Mitsubishi Lancer Evo 8 (A/N-5660)



Rear differential – Mitsubishi Lancer Evo 8-MR (N-5673)







N5660  
Lancer Evolution 8



Photo A)

N5673 (N5673)  
Lancer Evolution 8 MR



photo B)



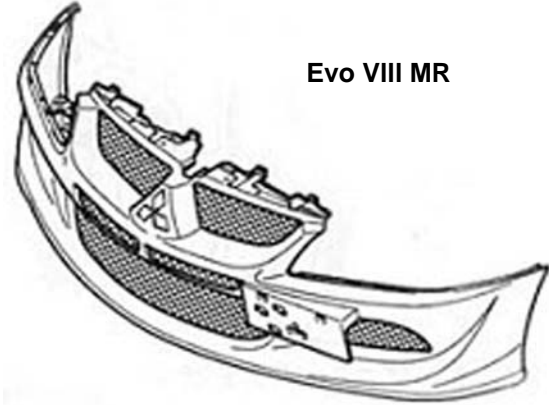
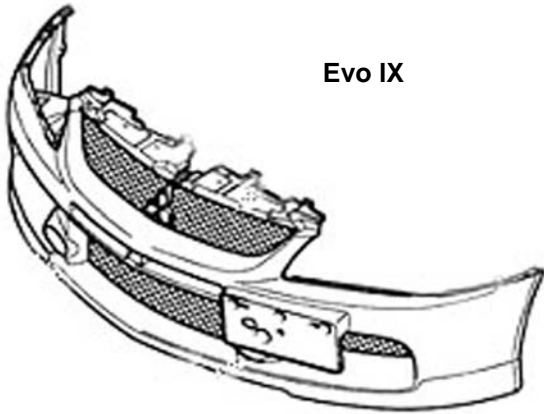
N5688 (N5688)  
Lancer Evolution 9



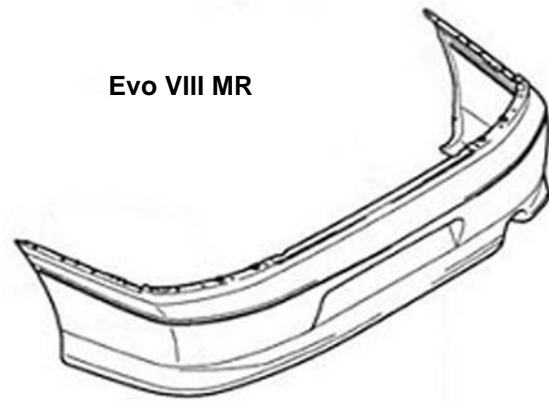
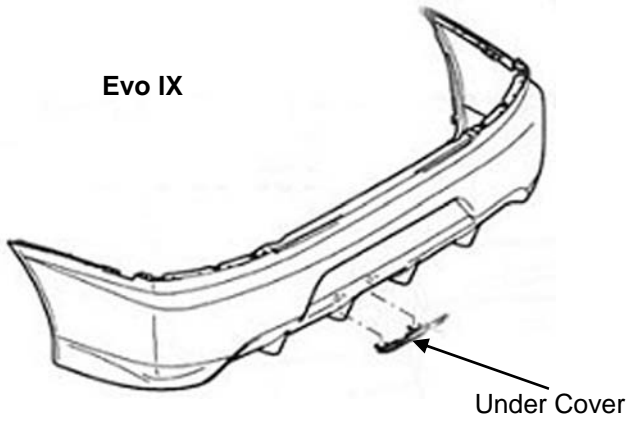
Article 201: Weight	1300kg	1310kg	←
Article 205:Wheel arch opening (Fr)	352mm	←	←
Article 205:Wheel arch opening (Fr)	317mm	←	←
Article 207:Maximum track (Fr)	1520mm	←	←
Article 207:Maximum track (Rr)	1525mm	←	←
Article 308:Combustion volume	61.2cc	←	←
Article 310: Compression ratio	9.2	←	←
Article 317(c):Piston weight	476g	485g	←
Article 317(e):Distance (IDC to gasket top)	0.35mm	1.4mm	←
Article 317(f):Piston groove volume	6.3cc	4.0cc	←
Article 322:Gasket thickness	0.79mm	1.18mm	←
Article 325:Cam shaft dimension A,B	Intake : A=30.0 B=36.0, Exhaust=30.0, B=35.5	←	←
Article 326d):Cam shaft timing	Shown N5660 homologation sheet	←	←
Article 326e):Maximum valve lift	In.=10.3, Ex.=9.5	←	←
Valve opening angle control system	None	←	←
Article 329b):Catalytic converter	Yes (2.0L)	Yes (1.5L)	←
Article 331:Cooling capacity	6	←	←
Article 332:Cooling fan Number, Dia.	2, 320mm/320mm	←	←
Article 333c):Lubrication capacity	5.3L	5.5L	←
Article 333d):Oil cooler Number, type	1, Radiator (air)	←	←
Article 401d):Fuel tank capacity	52L	←	←
Article 402c):Fuel pump number, make, type	1, DENSO, WESCO	←	←
Article 402d):Maximum flow	3.63l/mn at392kPa	←	←
Article 602a):Clutch type	Dry single plate	←	←
Article 602d)Diameter	240mm	←	←
Article 605d):Type of Diff limitation (Fr)	Helical Gear	←	←
Article 605d):Type of Diff limitation (Rr)	Mechanical plate	Hydraulic Yaw controlled	←
Article 702d):Helical spring (suspension)	Steel (Fr and Rr)	←	←
Article 706a):Stabiliser effective length	578mm (Fr), 774mm (Rr)	←	←
Article 706a):effective Diameter	24mm (Fr), 22mm (Rr)	←	←
Article 801:Wheel a) Diameter, b) Width	17", 8"	←	←
Article 802:Location of Spare wheel	Rear trunk compartment	←	←
Article 90(c):Air conditioning	Yes	←	←
Piston Oil-ring	Three pieces type	←	←
Water pump on engine	Continued current Evolution engine	←	←
			Two pieces type
			Add an alternator brace boss

V- 1.Front bumper

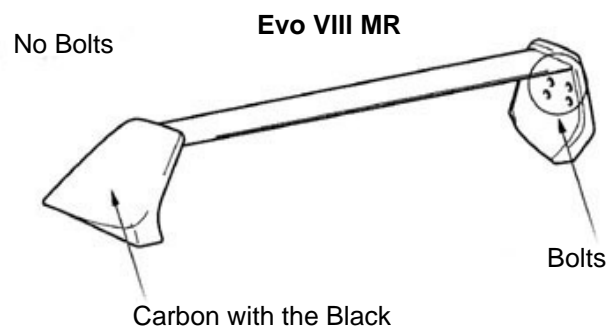
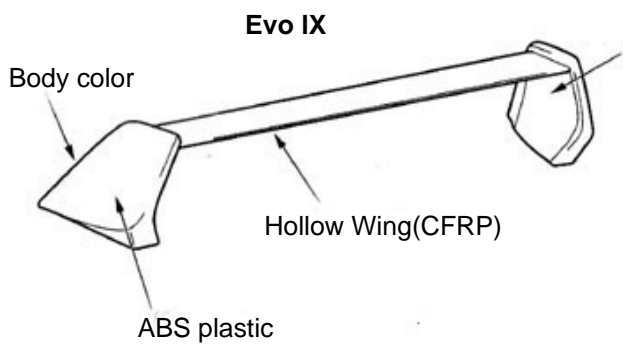
5-compare for EVo 8MR and 9



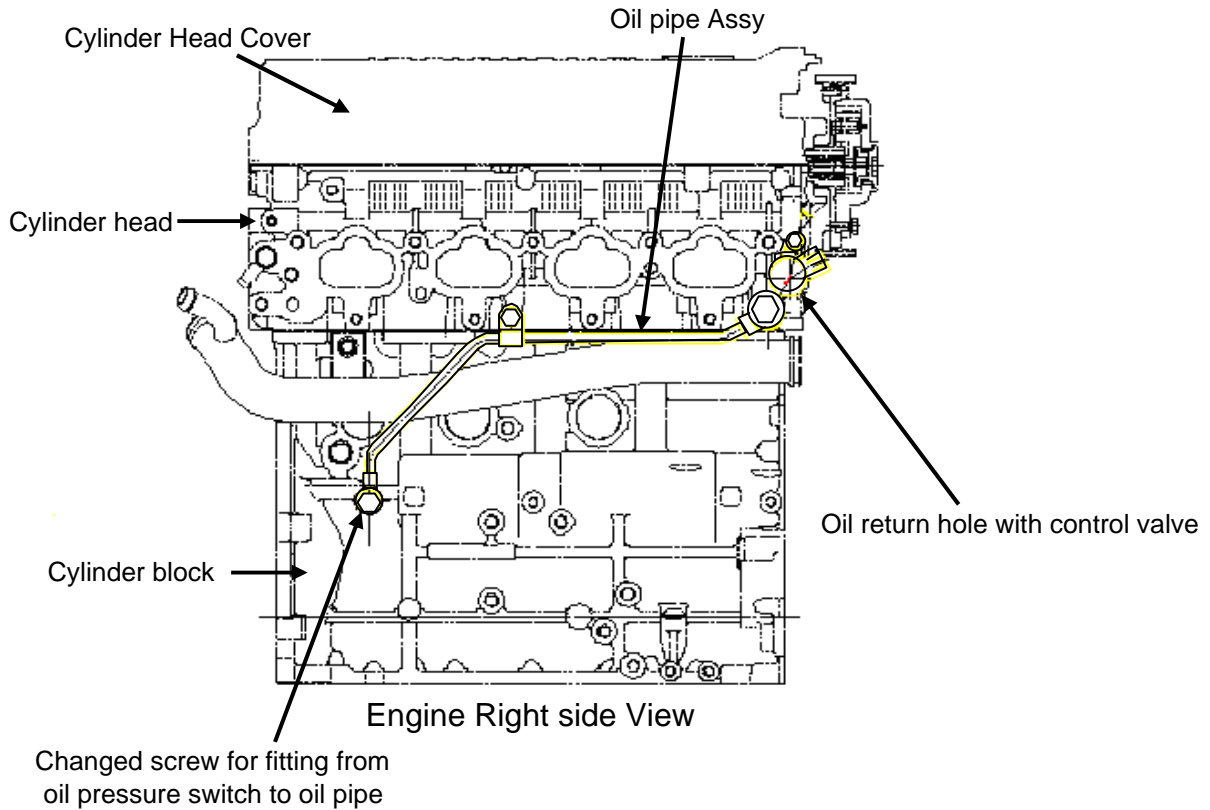
V- 2.Rear bumper



V- 3.Rear spoiler

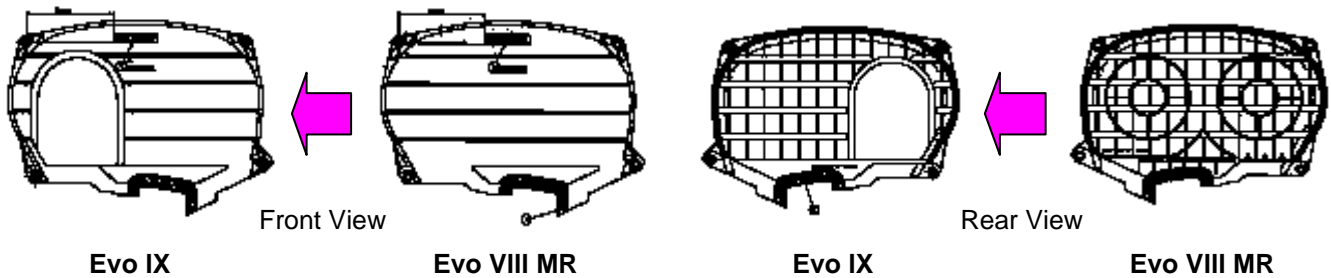


E- 1.Cylinder block

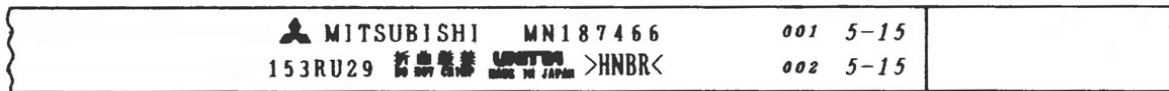


E- 2.Timing belt and the cover

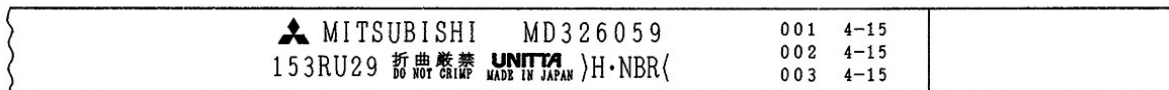
- Timing belt cover front and rear shape as below



Detail of timing belt is bellow



Evo IX



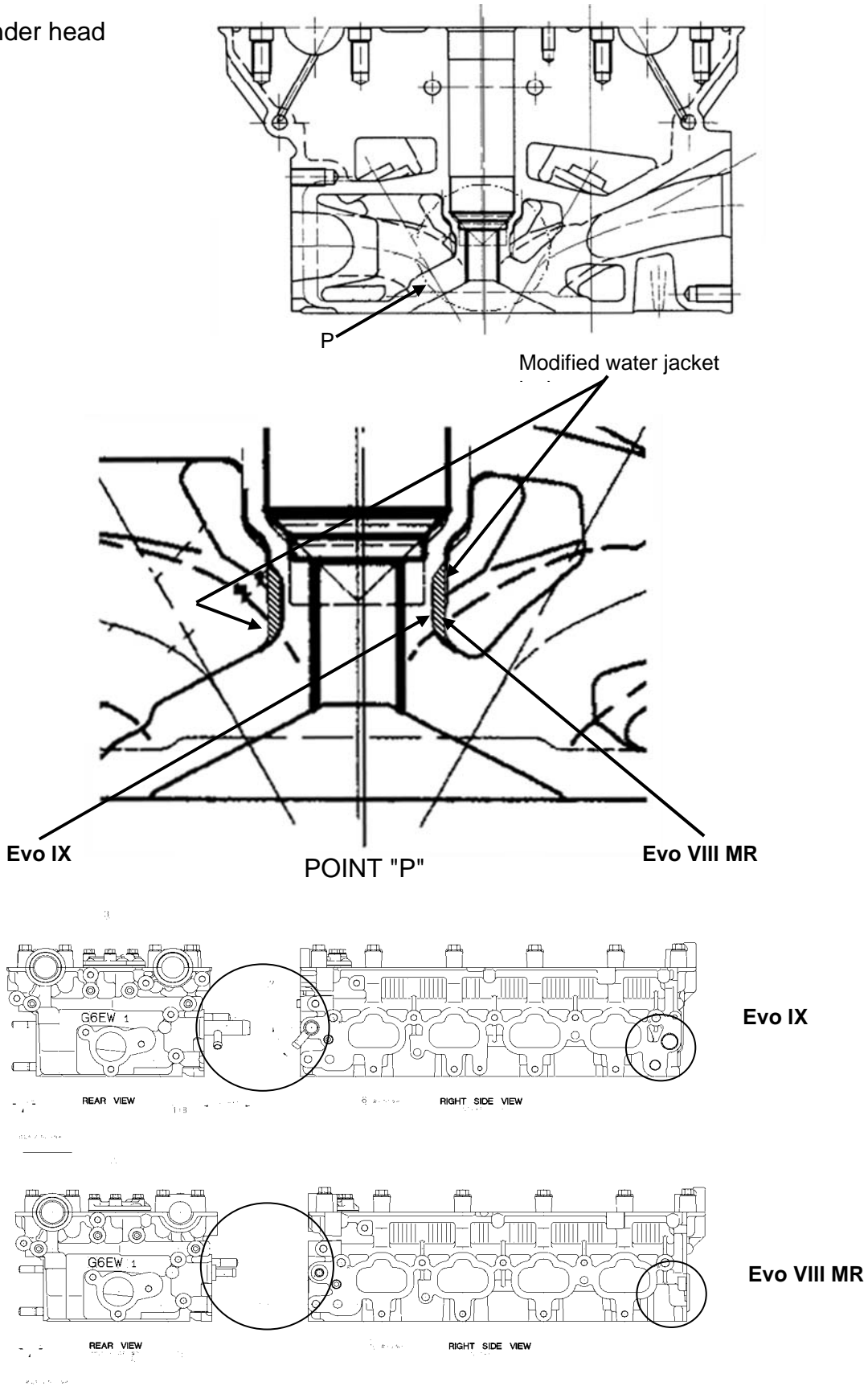
Evo VIII MR

	PART No.	TOOTH P ROFILE	PITCH	WIDTH	NO.OF TEETH	MATERIAL	PRINT COLOR
EvoIX	MN187466	RU	9,525	29,0	153	E660	BLUE
EvoVIII MR	MD326059	RU	9,525	29,0	153	E200	WHITE

E- 3.Camshaft

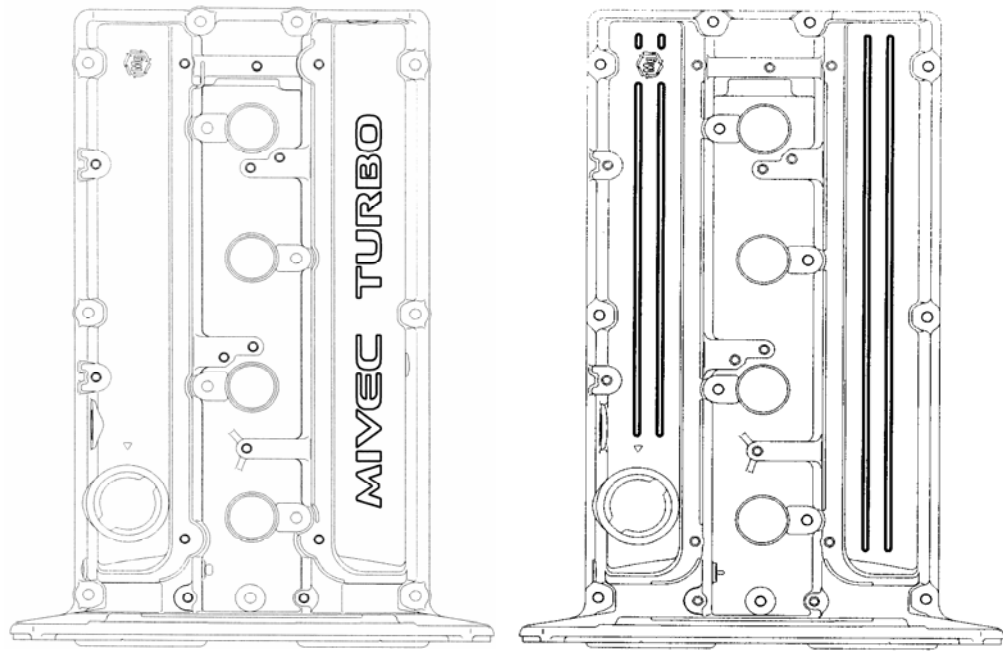
Cam profile is kept Evo8. Valve opening system is changed according with VVT system as homologation sheet

E- 4.Cylinder head



5-compare for EVo 8MR and 9

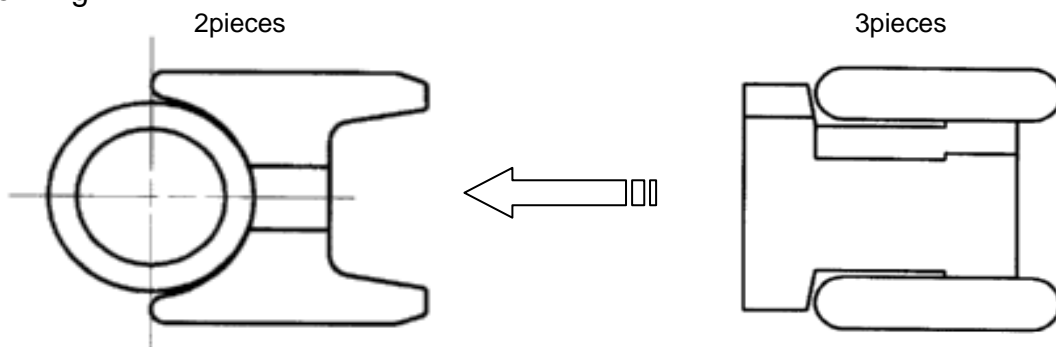
E- 5.Rocker cover



Evo IX

Evo VIII MR

E- 6.Piston oil ring



Evo IX

Evo VIII MR

E- 7.Piston



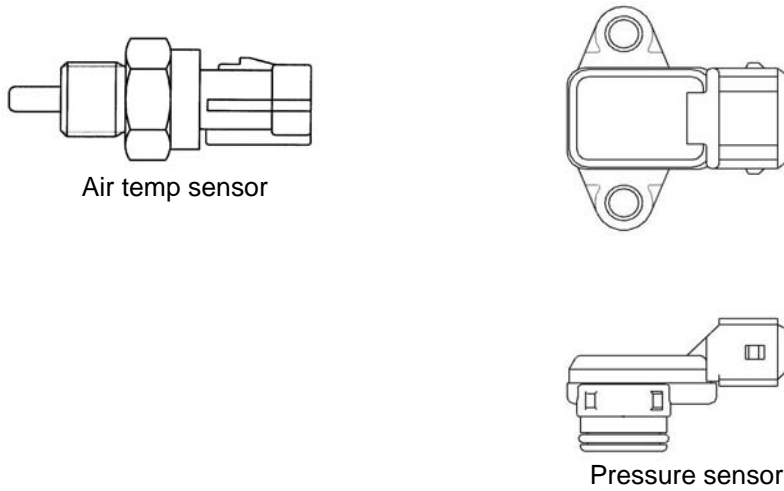
Evo IX



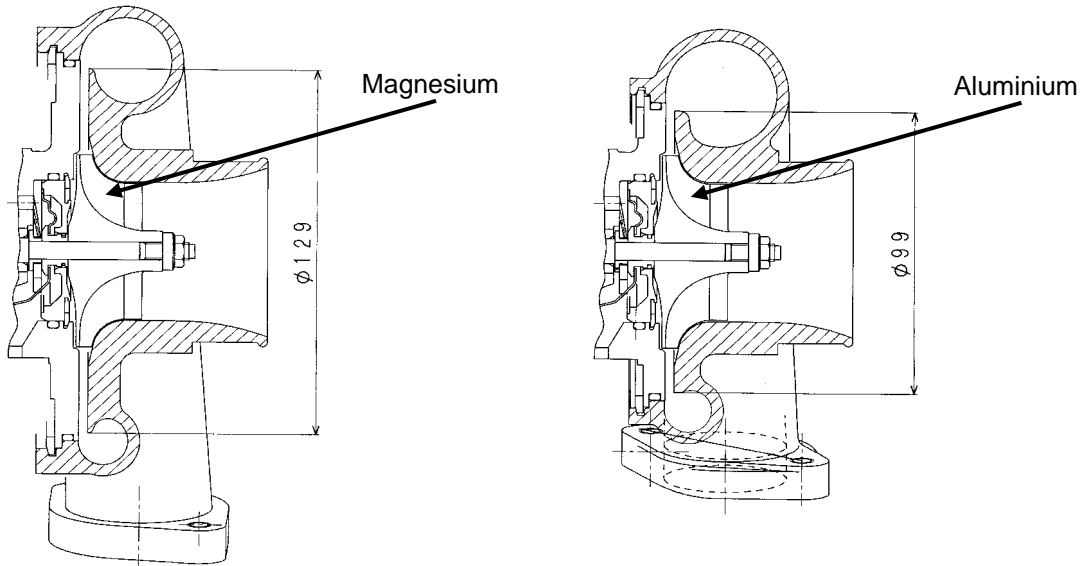
Evo VIII MR

5-compare for EVo 8MR and 9

E- 8.Inlet manifold



E- 9.Turbo charger **(attention see also: Homologation form 5688- VF)**



	Model type	Part No.
Evo IX	TD05HRA-16G6mC-10.5T	1515A060
Evo VIII MR	TD05HRA-16G6-10.5T	MN180192

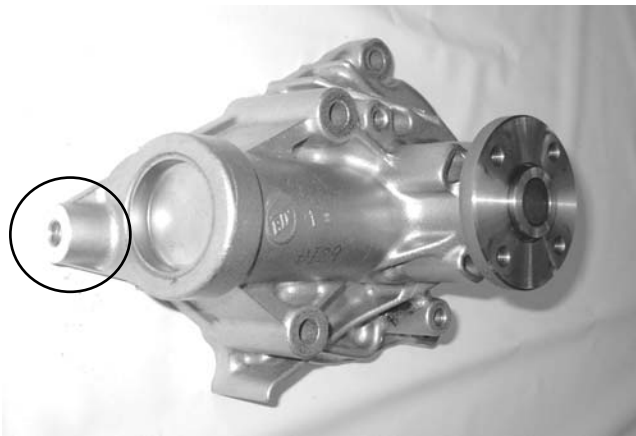
E-10. Water pump



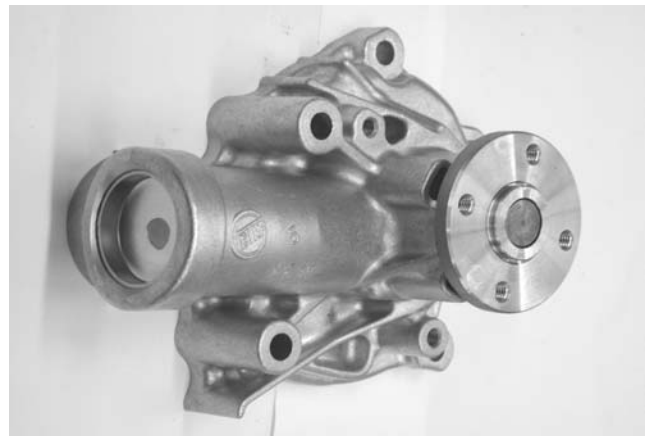
**Evo IX**



**Evo VIII MR**

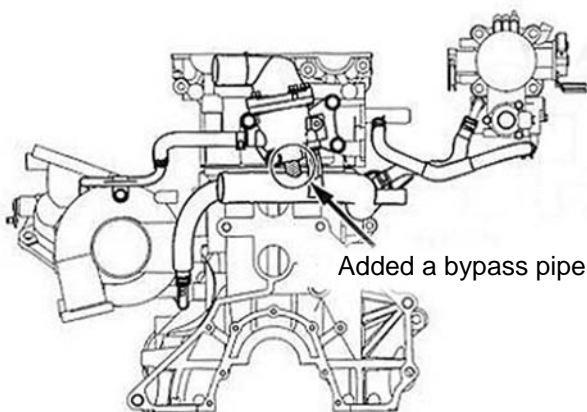


**Evo IX**

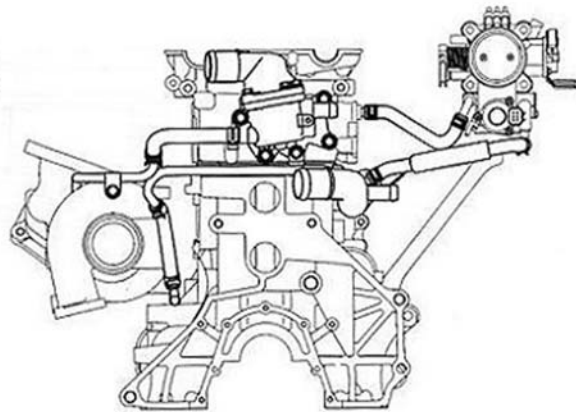


**Evo VIII MR**

E-11. Water Pipe



**Evo IX**



**Evo VIII MR**



E-12.Oil filter bracket

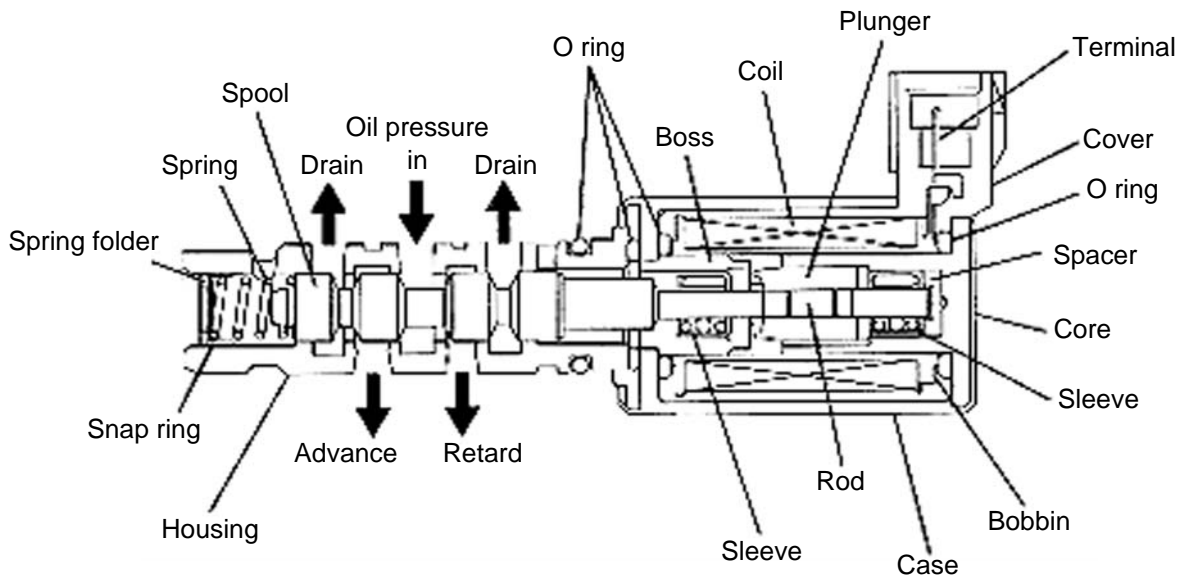


Evo IX

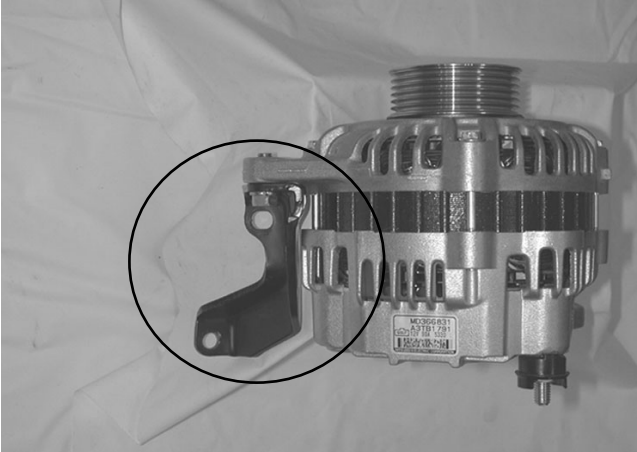


Evo VIII MR

E-13.Oil control valve



E-14.Alternator

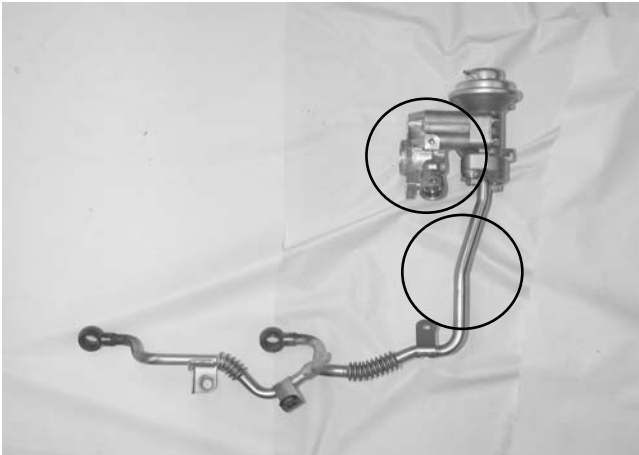


Evo IX



Evo VIII MR

E-15.Bracket for support secondary air pipe

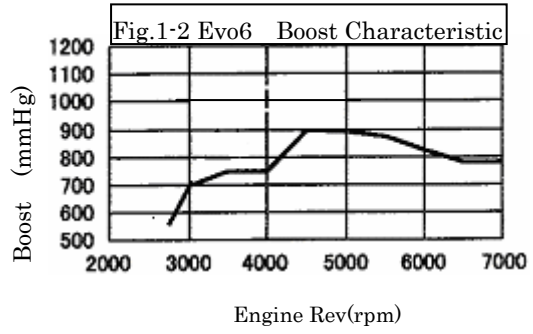
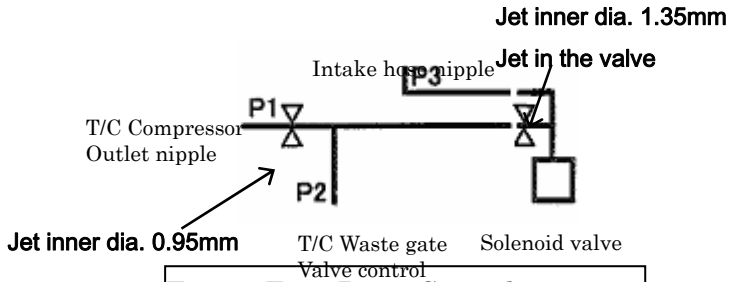


Evo IX

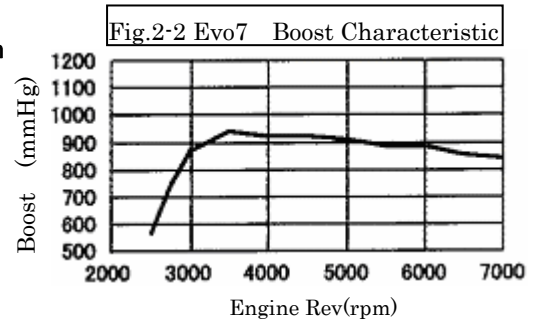
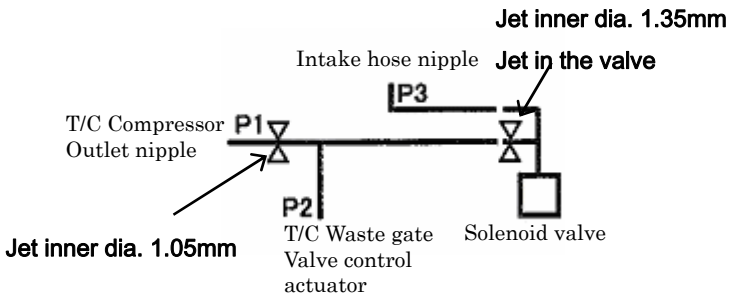


Evo VIII MR

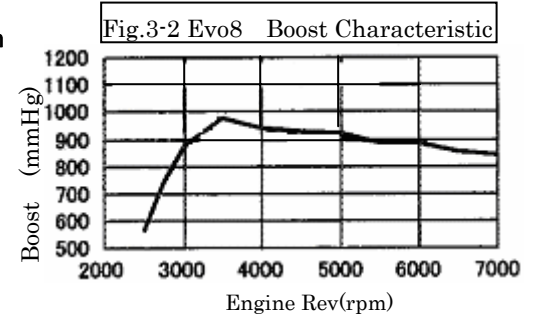
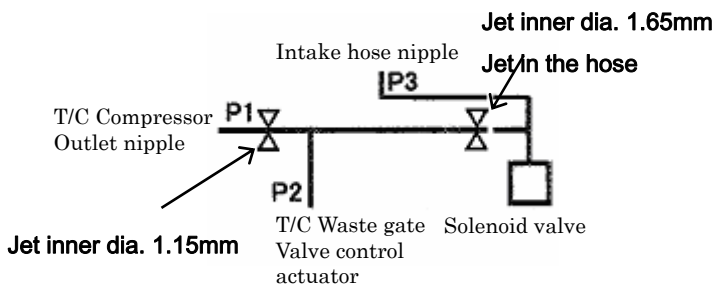
**Fig.1-1 Evo6 Boost Control system**



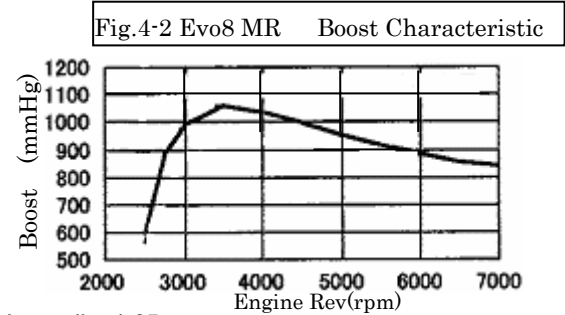
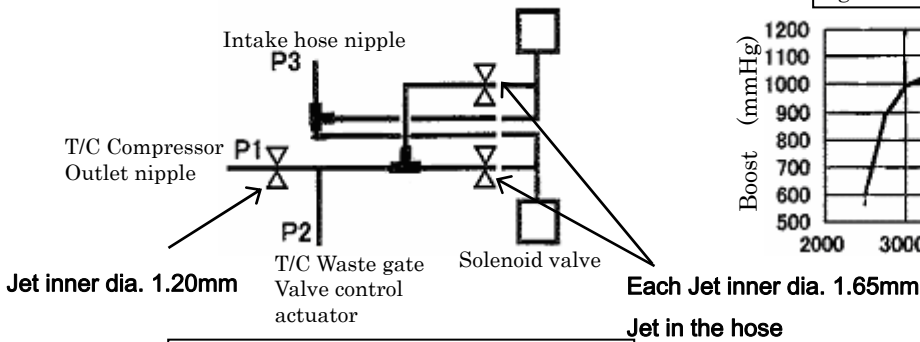
**Fig.2-1 Evo7 Boost Control system**



**Fig.3-1 Evo8 Boost Control system**



**Fig.4-1 Evo8 MR Boost Control system**



**Fig.5-1 Evo9 Boost Control system**

