

TECHNICAL REPORT

Use of sealant in assembly of
cylinder head gasket 10198800
for Mitsubishi 2.2 DI-D (4N14)

REASON

Show the **need to apply sealant** in the installation of the cylinder head gasket (CHG) 10198800 that is mounted on the **Mitsubishi 2.2 DI-D engine with 4N14 engine type**.

DESCRIPTION

The CHG has an **elastomer coating** on the external sides which perfectly adapts to the cylinder head and block surfaces, **assimilating the imperfections** that may exist due to the finish of these rectified surfaces and the roughness of the material.

Therefore, the **application of sealing products** in the installation of cylinder head gaskets is not common, on the contrary, it is totally **discouraged** unless **indicated by the vehicle workshop manual**.

In some instances, it is necessary to supplement in certain areas the CHG with a sealant, as the **intersection point between cylinder block-cylinder head-timing cover**.

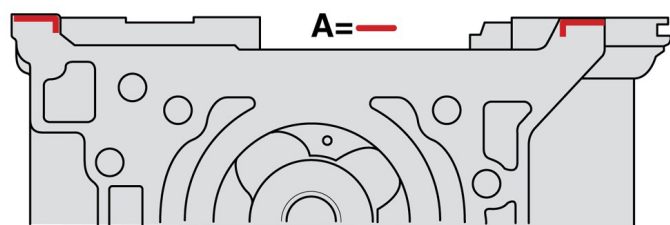
This is the case of the **Mitsubishi 4N14 engine**, which we can find in the following vehicles:

Vehicle	Manufacturing year		kW	CV	cc
	From	To			
Mitsubishi ASX (CA_W) 2.2 Di-D 4WD	04.13	-	110	150	2268
Mitsubishi OUTLANDER II (CW_W) 2.2 DI-D 4WD	09.10	11.12	103	140	2268
Mitsubishi OUTLANDER II (CW_W) 2.2 DI-D	11.06	11.12	130	177	2268
Mitsubishi OUTLANDER II (CW_W) 2.2 DI-D 4WD	11.06	11.12	130	177	2268
MITSUBISHI OUTLANDER III (GG_W, GF_W, ZJ) 2.2 Di-D (GF6W)	08.12	-	110	150	2268
MITSUBISHI OUTLANDER III (GG_W, GF_W, ZJ) 2.2 Di-D 4WD (GF6W)	08.12	-	110	150	2268

In these cases, according to the workshop manual, a **small amount of sealant** should be applied in the **timing area**, as shown in the following images:

ENGINE BLOCK

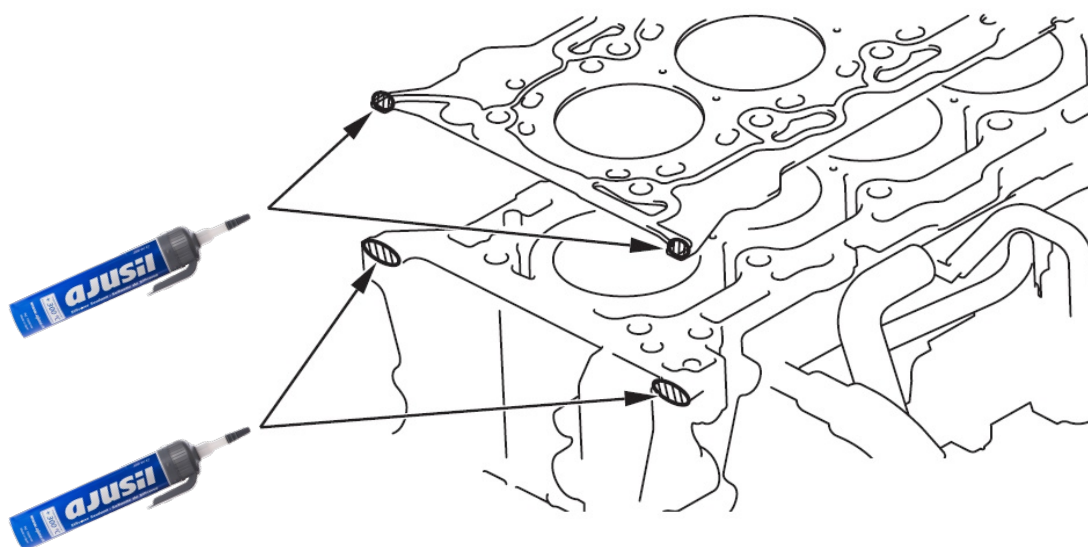
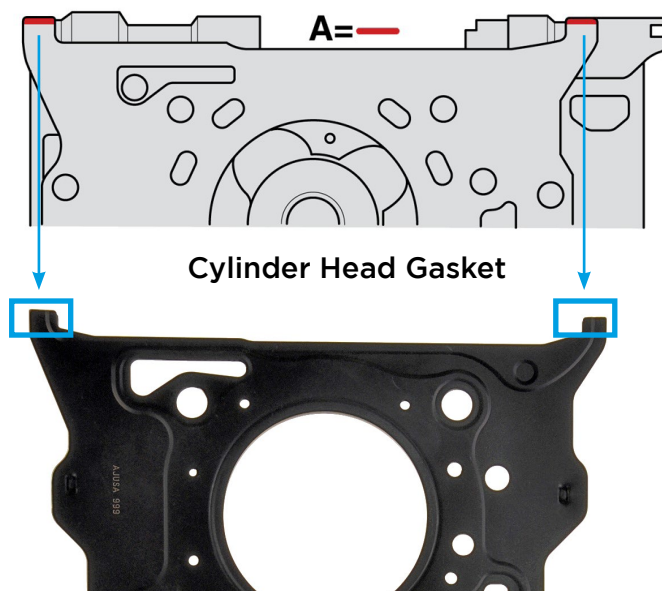
Before placing the CHG over the block, apply a **2.0-3.0 mm** diameter bead of an RTV silicone or gasket former as our **AJUSIL** over the **cylinder block**, following the instructions below:



Cylinder Block

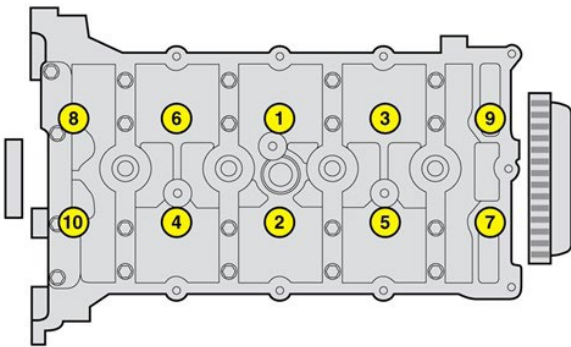
CYLINDER HEAD GASKET

Once the CHG is placed on the block, apply a **2.0-3.0 mm** diameter bead of an RTV silicone or gasket former as our **AJUSIL** on the **CHG**, following the instructions below:



ASSEMBLY PROCESS

- 1** Remove the **old sealant** from the cylinder block and cylinder head.
- 2** **Clean and degrease** the surfaces of the cylinder block and cylinder head
- 3** Apply **sealant over the cylinder block** as shown above.
- 4** **Place the gasket immediately** after applying the sealant on the block.
- 5** Apply **sealant over the CHG** as shown above.
- 6** **Place the cylinder head immediately** after applying the sealant on the CHG, the head bolts and tighten them following the instructions below:



- 1) 50 Nm
- 2) 90°
- 3) 90°
- 4) Afloje
- 5) 50 Nm
- 6) 90°
- 7) 90°
- 8) 90°

- 7** Wait **60 minutes** before starting the engine or filling the engine with oil or coolant to allow the sealer to dry.