

TECHNICAL REPORT

Rocker type lifters for Mini
W10B & W11B engines






PURPOSE

To inform about the **type of lifters and their layout** in the engine so that it helps our customer choose the correct one if a partial substitution is carried out.

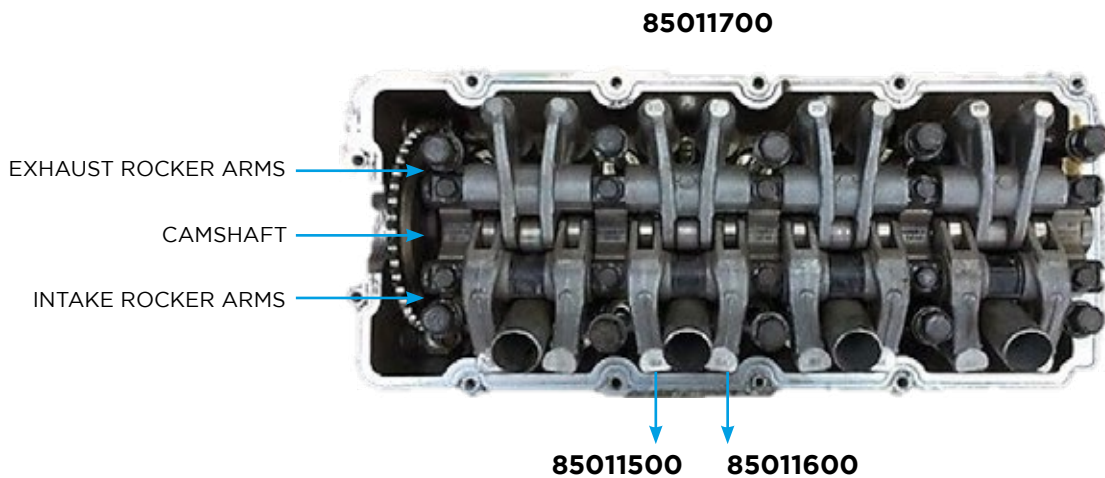
DESCRIPTION

Mini W10B and W11B engines were born in 1997 from a joint project of **Chrysler and Rover Group** (subsidiary of BMW in those days), called "Tritec Motors", with the aim of designing a new 4 cylinder in-line petrol engine. **BMW has used these engines** in MINI models from year 2000 to 2009.

PART NUMBER	BRANDS	MODELS	ENGINE		LINK
			c.c	type	
 85011500 85011500  8501700	MINI	ONE 16V COOPER 16V ONE CABRIO 16V COOPER S CABRIO 16V COOPER CABRIO 16V COOPER PEPPER 16V COOPER SEVEN 16V COOPER S 16V COOPER JCW CABRIO COOPER JCW 16V	 1,397 1,598	W10814A W10816A W11816A	 85011500  85011600  85011700

There are three versions of these engines, 1.4 and 1.6 naturally aspirated, and a third 1.6, supercharged. The three of them have 4 cylinders, 16 valves and only one camshaft that activates the 12 rockers.

The rockers are mounted on two shafts, one for the intake rockers and other for the exhaust rockers.



One of the particularities of these rockers is that the four exhaust rockers 85011700 act on 8 valves.

Furthermore, they have **two different types** of intake rockers, which AJUSA identifies in its catalogs as 85011500 (“left”) and 85011600 (“right”), depending on its respective position to the exhaust rocker, and always looking at the engine from the front part of the vehicle.