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INSTALLATION MANUAL

AEROFLOW PERFORMANCE

NISSAN RB OIL PAN

WARNING!

BEFORE PROCEEDING WITH INSTALLATION PLEASE READ INSTRUCTIONS CAREFULLY. THIS PRODUCT REQUIRES DETAILED KNOWLEDGE OF AUTOMOTIVE SYSTEMS. WE RECOMMEND THAT THIS INSTALLATION BE CARRIED OUT BY A QUALIFIED AUTOMOTIVE TECHNICIAN.

INTRODUCTION

Congratulations on your purchase of Aeroflow Performance Nissan RB oil pan. Aeroflow Performance products cannot and will not be responsible for any damage, or other conditions resulting from misapplication of the parts described herein. However, it is our intention to provide the best possible products for our customer, products that perform properly and satisfy your expectations. Should you have any questions? Please call technical support at +61 2 8825 1900 and have the product part number on hand when calling.

This product is designed to suit your Nissan RB20, RB25 and RB30 engines in all Rear-Wheel-Drive applications. This oil pan may not suit conversion cars it is recommended to check all dimensions before fitting this oil pan. It is a fully fabricated front sump oil pan. The pan includes a louvered baffle / windage tray and a pick-up baffle to help keep oil at the pick-up point. The Pan features 2 x 10 AN male port on either side of the pan for breather and drain back applications. A large female -12 ORB drain plug is attached that can also be used for an external oil pump pick up point.

This oil pan is designed to work with the standard RB30 Nissan oil pick-up alternatively can purchase separately the Aeroflow Performance hi flow oil pick up (AF82-2021). Included in this oil pan is a 10mm billet spacer with longer bolts. This is designed to be bolted onto the factory location oil pick up and act as a spacer to bring the spacer down due to the larger sump capacity.

This oil pan will hold 8 litres of engine oil.

Before final assembly, make sure all parts are thoroughly cleaned. This oil pan contains hinged trap door style baffles, it is advisable to install the pan with the engine upright to ensure no trap doors will be stuck open.

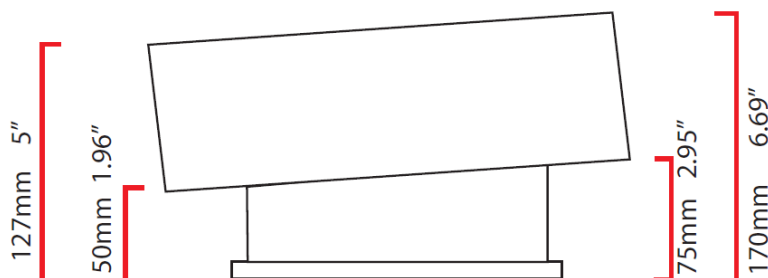
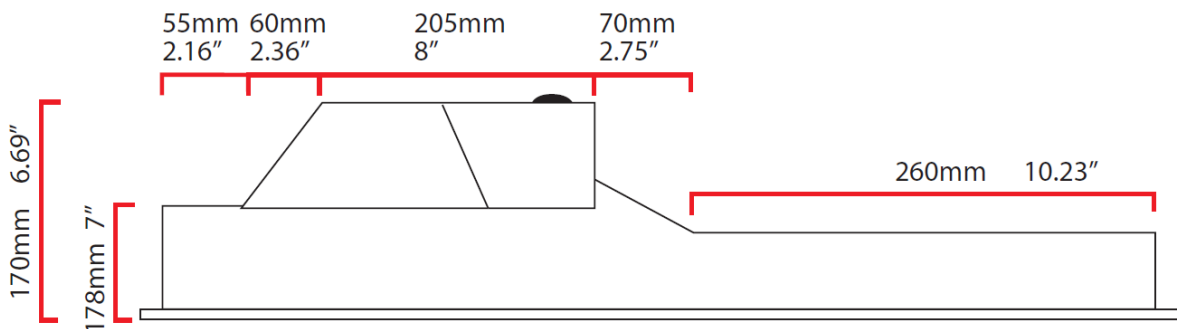
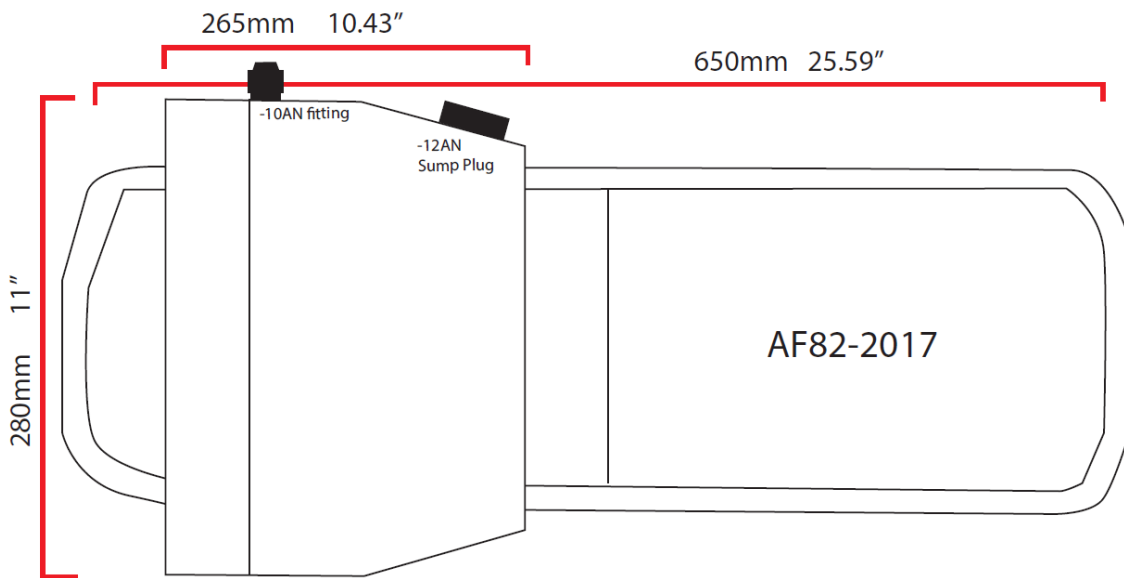
Due to the welding done on these pans, there is always a chance of slight warping. Some oil pans may encounter a slight 'rocking' effect when laying the pan down on a flat surface. Once the pan is drawn down securely by the bolts and the engine is run, you will find the pan will take a 'set' in the straightened position. We have found that an initial 'rock' of up to 1/8" (3.17mm) on a new pan is completely acceptable.

Aeroflow Performance strongly recommends bolting down the oil pan without any sealant and with all the fasteners. Then turn the rotating assembly to check for any interference with the oil pan or windage tray.

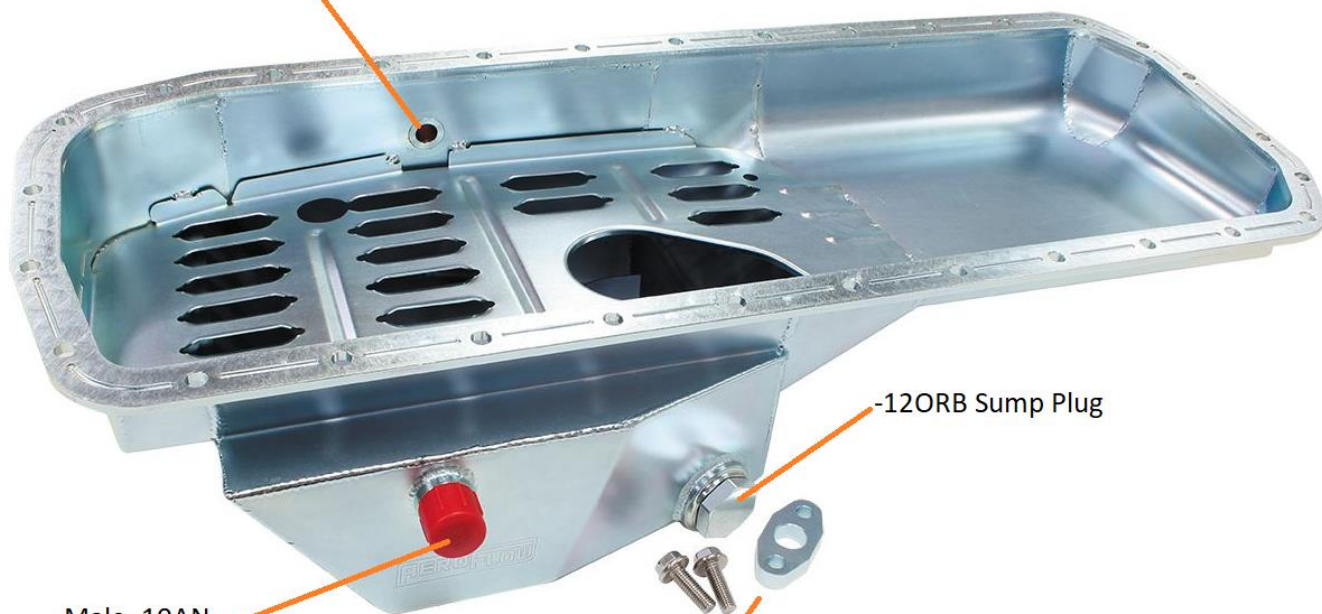
Although the factory hardware may be retained in some cases, Aeroflow Performance oil pans includes fasteners that are engineered to the specific oil pan. Some oil pans will work better with the factory OE bolts, while others are better suited for studs and nuts, particularly aluminium oil pans. A stud kit will protect the threaded oil pan boltholes in a block and simplify removal and replacement of the oil pan.

INSTALLATION

1. Remove stock oil pan from the vehicle following the procedure from the factory service manual if you are unsure. Remove pick up and ensure to keep all hardware that was removed in case it is needed during the installation.
2. Scrape all old silicone (RTV) from oil pan mounting surface on the block
 - I. **NOTE:** This surface must be clean and rubbed back to raw material to ensure a good seal from the RTV silicone any contaminants on the mating surfaces may cause an oil leak.
3. Install new oil pump pick up spacer that is included. You may choose to reuse your factory OEM pick up or purchase a Aeroflow high flow pick up (AF82-2021).
4. Dummy install oil pan to engine to ensure no clearance when rotating the crank.
 - I. **NOTE:** Rotate the crank and make sure that all areas clear. If the baffle makes contact with any moving parts you will need to mark them carefully and clearance the areas. After you have clearance, the required areas reinstall the oil pan and verify that there is sufficient clearance. Do not make modifications while the oil pan is installed and ensure it is thoroughly cleaned after each modification is carried out.
5. Install oil pan using Three-Bond or equivalent RTV silicone sealer. You may choose to use the supplied studs and nuts or re use the factory OE bolts at this stage. Ensure to follow factory service manual for reinstallation of oil pan.
6. Once pan is installed rotate crank and verify no noises are heard due to interference.
7. Last step is to verify that the drain plug and sensor plug is tight. Then fill it up and let the car run, check for leaks before road testing.



Male -10AN
Breather / Oil Drain



Male -10AN
Breather / Drain

-12ORB Sump Plug

Oil Pick Spacer



AF82-2021 Hi-Flow Oil Pick Up



AF59-2017



AF59-2117

For more information or technical enquires

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