

BMS Billet Aluminum BMW DCT transmission high capacity oil pan Install Guide

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Video on how to change the DCT filters, gasket, and oil pan
https://www.youtube.com/watch?v=1_hnMQP9AxE

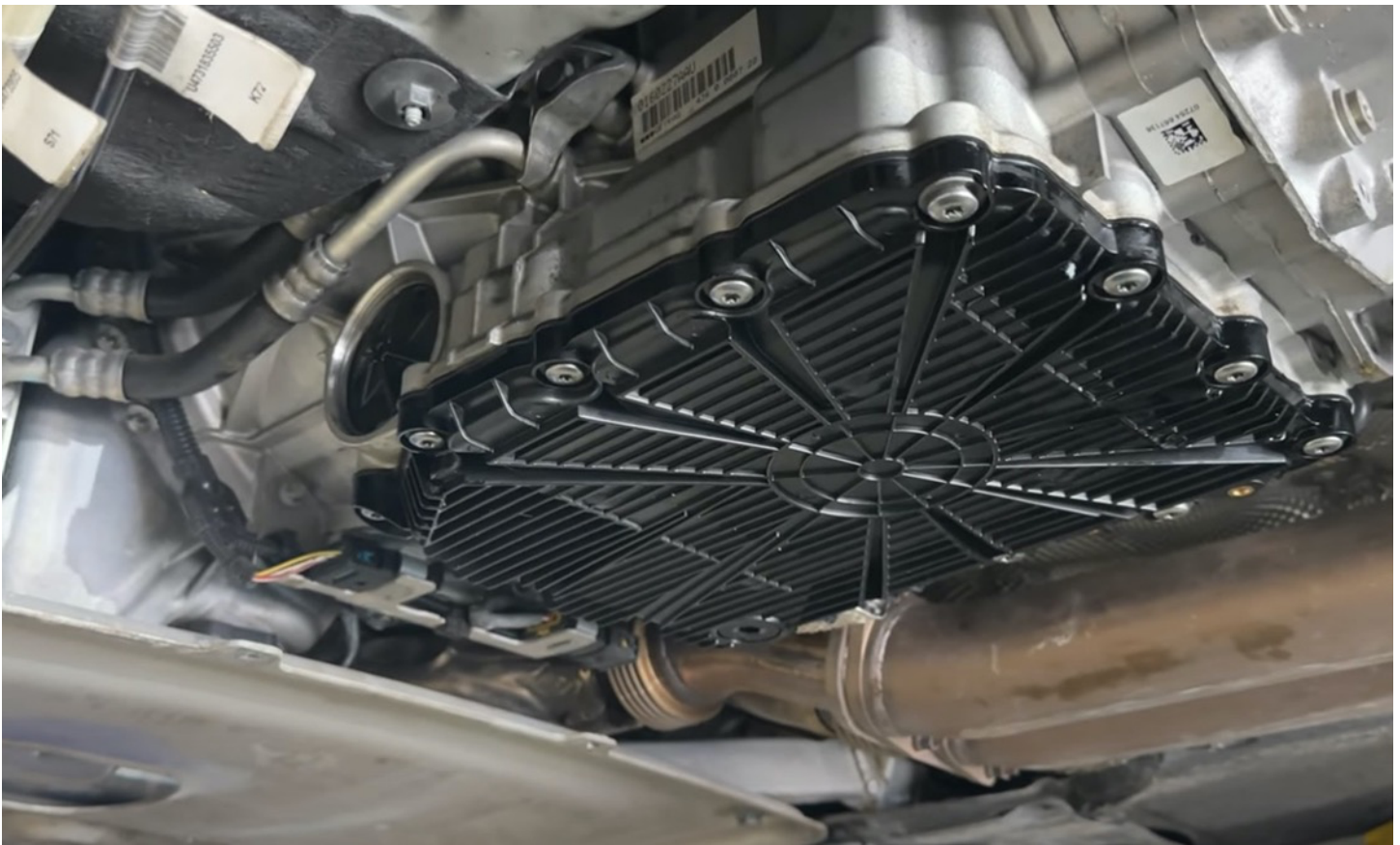
Raise the vehicle on a lift and be sure the vehicle is level. This will insure the correct oil filling.

Remove the protective plastic cover with 8mm metal bolts and one 10mm plastic nut. this will need to be cut to expose the fins on the BMS DCT pan to get adequate airflow.

Loosen the 8mm Allen fill plug on the side of the transmission.

Remove the 10mm Allen drain plug on the bottom of the OE pan and drain the fluid.

Remove the 14 T30 transmission oil pan screws, first by hand, then with a power tool. There is also a 10mm bolt that needs to be removed on the metal heat shield before the OE plastic pan is removed.



Use a catch pan to see how much fluid comes out.

Now remove the oil pick-up by removing the 6mm Allen bolt and removing the oil pick-up mechanism.

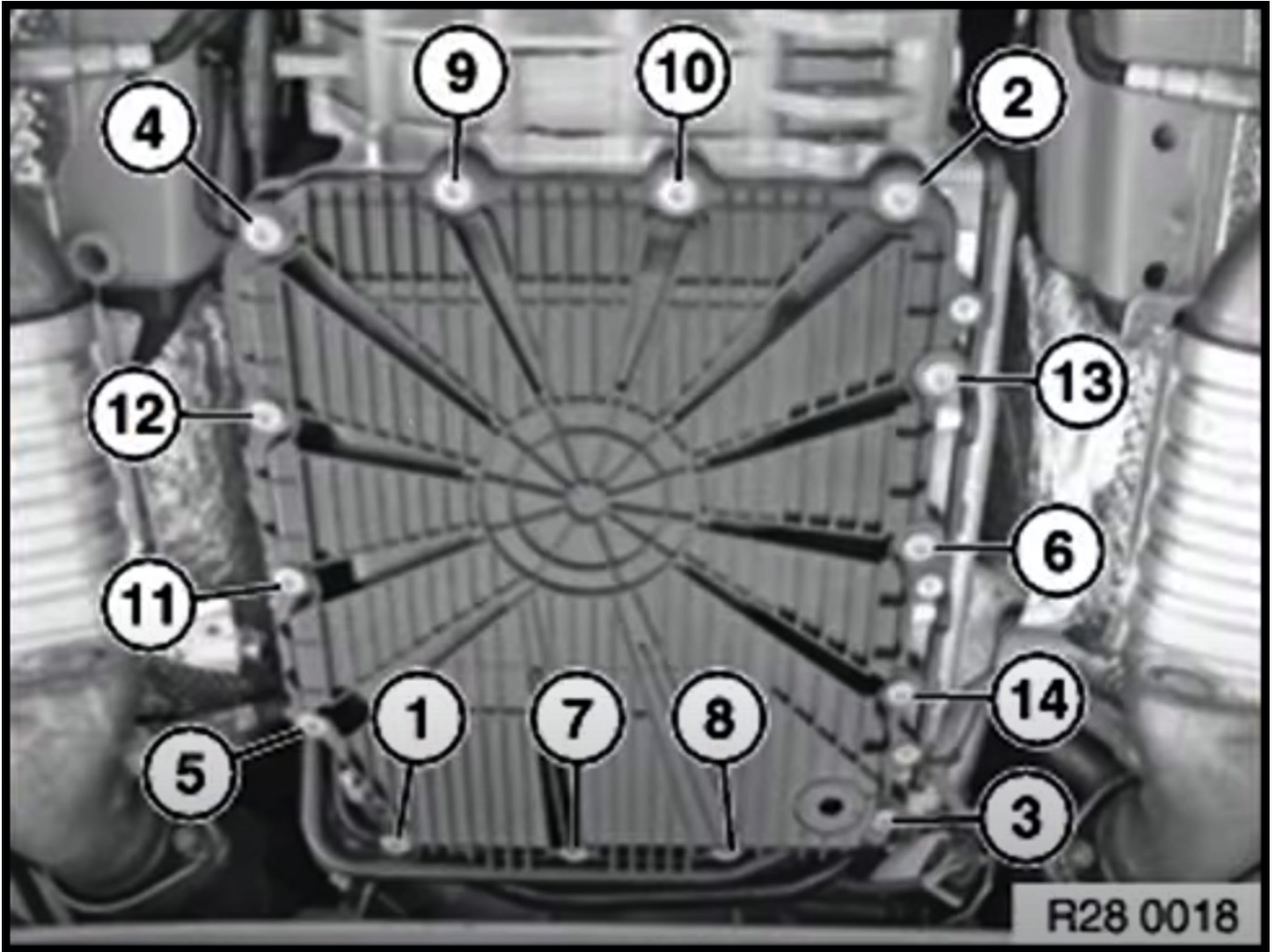
Remove the suction filter by removing the two T30 torx bolts on both sides of the filter and remove the filter.

Install the new suction filter by replacing the two T30 torx bolts and torquing them to 5.9 ft-lb (8 NM)

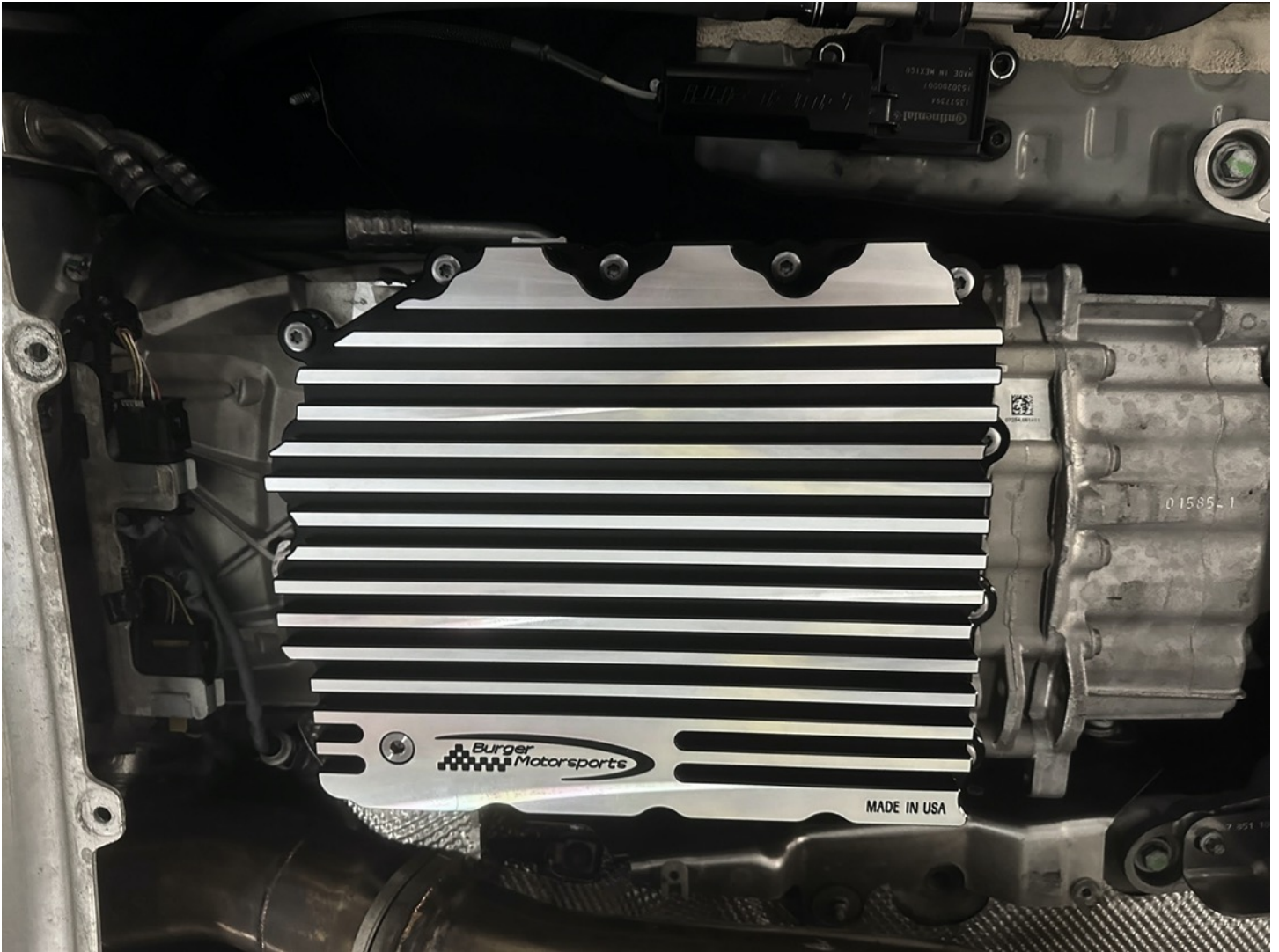
Now replace the oil pick-up with the 6mm Allen bolt.



Now put the BMS DCT billet pan on by inserting the new gasket and transferring over the round factory magnet to the new BMS DCT pan and torquing the perimeter bolts to 7.3 ft-lb (10 NM) in the order shown below as recommended by BMW.



Billet pan installed.



If you purchased a new pressure filter now is the time to replace it.
BMW part number 28107850148 (28-10-7-850-148)



On the lower side of the transmission remove the snap ring with a snap ring removal tool or needle nose pliers.



Remove the plastic cover with a hooked pick or similar tool using the oval holes.

Remove and replace the pressure filter and replace the cap and snap ring.



Now fill the transmission with around 7 1/8 quarts Pentosin FFL 2 DCT Fluid #1038107 or equivalent through the fill plug on the side until the fluid starts coming out. This will ensure the pan is full. The high capacity BMS DCT pan requires an additional 1 1/8 quarts of DCT fluid. Replace the fill plug. Start the car and hold at 2000 RPMs for about 1 minute to bring the fluid to 90° F (32° C).



Now remove the fill plug on the side of the transmission again and top the fluid off until the fluid starts coming out again. Tighten to 18.4 ft-lbs (25 Nm).