

Your Ref: SNB 1806J
Our Ref : CI/TP23001954/D

22 February 2023

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AUTOMOBILE INSPECTION REPORT OF MOTOR CAR SNB 1806J

1. I refer to your request on 16 February 2023 to conduct a physical inspection of a motor car bearing registration number SNB 1806J (herein referred to as "**Motor Car**").
2. The purpose of this inspection was to primarily determine: -
 - a) whether the manual transmission assembly of the Motor Car was fitted in a secure manner that will not affect the structural integrity of the Motor Car; and
 - b) whether there was any operational issue(s) to the manual transmission system of the Motor Car.
3. Following the request, I had carried out a physical inspection of the Motor Car on 21 February 2023 at the premises of No. 36 Toh Guan Road East #01-42 Enterprise Hub, Singapore 608580. I also conducted a short test drive of the Motor Car during this inspection.
4. I now set out below my observations and comments with respect to this inspection and test drive.

Inspection of the Motor Car

5. The following general information of the Motor Car was first recorded at the time of my inspection: -

Vehicle Registration No.	: SNB 1806J
Make / Model	: Nissan Skyline 2.5A
Chassis No	: ER34023845
Year of Registration	: 2000 (January)
Mileage	: 6,468km

6. The Motor Car was fitted with a 5-speed manual transmission assembly. The front (input) side of the transmission assembly is bolted to the crankshaft side of the engine block while the rear (output) side of the transmission assembly, connects to the propeller shaft, which links to the differential at the rear axle of the Motor Car. A bracket mounted to the underside of the Motor Car's floorboard, via bolts and nuts, supports the rear (output) side of the transmission assembly. Rubber bushings, sitting between the transmission assembly and this bracket, absorbs any vibrations arising from the rotation of the transmission gears, minimising any stress to the bracket.
7. The transmission assembly was operated by a clutch pedal, for engaging and disengaging the transmission gears, and a manual gear shifter for manually selecting the transmission gear to be engaged. See photo 1 – 9 below taken during my inspection of the Motor Car.



Photo 1 shows the Motor Car hoisted up for checks on its undercarriage, in particular to its transmission assembly.



Photo 2 shows a general view of the transmission assembly (arrowed) that was fitted on the Motor Car, as viewed from the front to rear. The front (input) side of the transmission assembly is bolted to the crankshaft side of the engine block while the rear (output) side of the transmission assembly, connects to the propeller shaft, which links to the differential at the rear axle of the Motor Car.



Photo 3 shows a general view of the bracket (arrowed) that was mounted to the underside of the Motor Car's floorboard, via bolts and nuts. The bracket supports the rear (output) side of the transmission assembly.



Photo 4 shows a closer view of the bracket (arrowed) that was mounted to the underside of the Motor Car's floorboard, via bolts and nuts. The bracket supports the rear (output) side of the transmission assembly. The bracket was also with rubber bushings that absorbs any vibrations arising from the rotation of the transmission gears, minimising any stress to the bracket.



Photo 5 shows the rubber bushing (arrowed), sitting between the transmission assembly and the bracket. The rubber bushing absorbs any vibrations arising from the rotation of the transmission gears, minimising any stress to the bracket.



Photo 6 shows the bracket mounted to the underside of the Motor Car's floorboard, via bolts and nuts (arrowed).

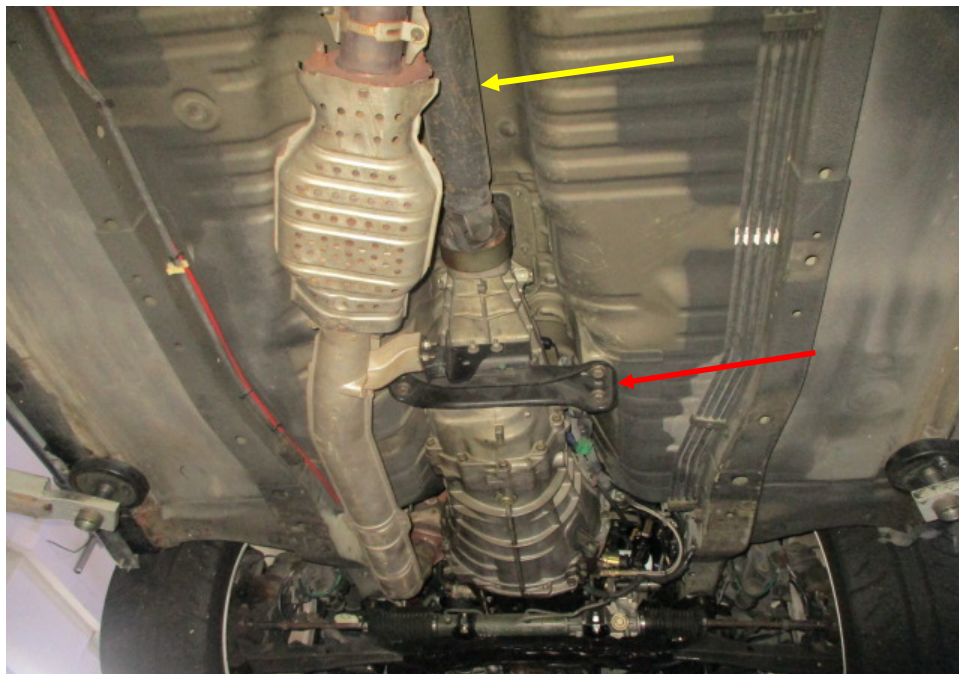


Photo 7 shows a general view of the transmission assembly that was fitted on the Motor Car, as viewed from the rear to front. The transmission assembly is supported by a bracket (red arrow) that is mounted to the underside of the Motor Car's floorboard, via bolts and nuts. The front (input) side of the transmission assembly is bolted to the crankshaft of the engine block while the rear (output) side of the transmission assembly, connects to the propeller shaft (yellow arrow), which links to the differential at the rear axle of the Motor Car.



Photo 8 shows the manual gear shifter (arrowed) for manually selecting the transmission gear to be engaged.



Photo 9 shows the clutch pedal (arrowed) for engaging and disengaging the transmission gears.

8. I subsequently test drove the Motor Car to primarily determine whether there was any operational issue(s) to its manual transmission system. The Motor Car was driven within the premises of No. 36 Toh Guan Road East, Enterprise Hub.

9. The general performance of the transmission system of the Motor Car was satisfactory throughout the Motor Car's short test drive. Operationally, I did not find any abnormal behaviour of the transmission system. I was able to engage the different transmission gears without any significant difficulty. Selecting the required transmission gear by manually upshifting and downshifting of the gear shifter was relatively smooth. The Motor Car was also able to reverse when the gear was manually shifted to reverse. The mileage of the Motor Car at the end of the test drive was 6,470km.
10. In general, the transmission assembly of the Motor Car was found to be secured properly. It was not mounted onto the chassis body or any integral body part of the Motor Car. The structural integrity of the Motor Car is not compromised by the fitment of this particular transmission assembly. Overall, the operating condition of the Motor Car's transmission system was satisfactory throughout the Motor Car's test drive.



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