

■ SEQUENTIAL MANUAL TRANSAXLE

1. General

In the new MR2, the Europe model has been changed from the C52M 5-speed sequential manual transaxle to the C66M type, and the Australia model has been changed from the C56M 5-speed sequential manual transaxle to the C65M type 6-speed sequential manual transaxle. These sequential manual transaxles are based on the C52M and C56M types with a 6th gear added.

- The 6th gear is added to reduce noise when driving at high speed and increase fuel economy. The shift and select mechanism and gear train part have the same basic construction and operation as the C66 6-speed manual transaxle.
- Changes to the components of the sequential manual transaxle are shown below.

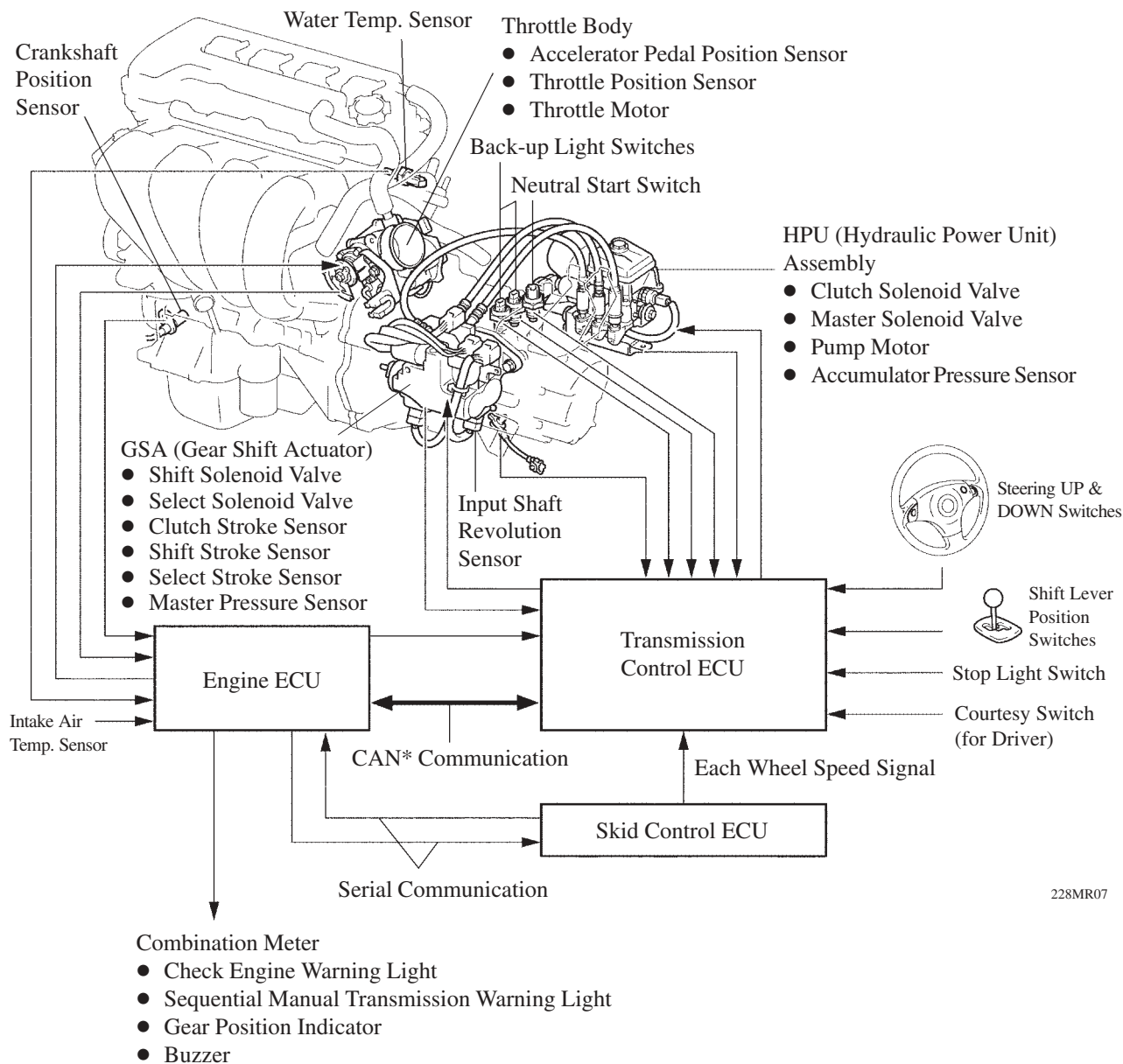
Component Parts	Changed
Transmission Control ECU	<ul style="list-style-type: none"> ● With the change to 6-speed and brake control system (ABS with EBD, Brake Assist, TRC, and VSC), the soft logic of the transmission control ECU have been changed. ● To increase drivability in low speed ranges, a 2nd coast down control has been added. ● TRC/ VSC cooperative control has been added. ● DTC (Diagnostic Trouble Code) is changed.
Differential	The helical gear type TORSEN* LSD (Limited Slip Differential) has changed from optional equipment to standard equipment. (*: TORSEN is ZEXEL's registered trademark.)
Others	Configuration and structure are the same as previous model.

► Specification ◀

Destination		Europe		Australia	
Model		New	Previous	New	Previous
Transaxle Type		C66M (6-speed)	C52M (5-speed)	C65M (6-speed)	C56M (5-speed)
Gear Ratio	1st	3.166	←	3.166	←
	2nd	1.904	←	1.904	←
	3rd	1.310	←	1.392	←
	4th	0.969	←	1.031	←
	5th	0.815	←	0.815	←
	6th	0.725	—	0.725	—
	Reverse	3.250	←	3.250	←
Differential Gear Ratio		3.941	←	4.312	←
Oil Capacity Liters (US qts, Imp. qts)	without LSD	—	1.9 (2.0, 1.7)	—	1.9 (2.0, 1.7)
	with LSD	2.1 (2.2, 1.9)	1.8 (1.9, 1.6)	2.1 (2.2, 1.9)	1.8 (1.9, 1.6)
Oil Viscosity		SAE 75W-90	←	←	←
Oil Grade		API GL-4 or GL-5	←	←	←
Weight (Reference)* kg (lb)	without LSD	—	39.0 (86.0)	—	41.5 (91.5)
	with LSD	46.0 (101.4)	40.5 (89.3)	46.0 (101.4)	43.0 (94.8)

*: Weight shows the figure with the oil fully filled.

► System Diagram ◀



228MR07

*: CAN (Controller Area Network)