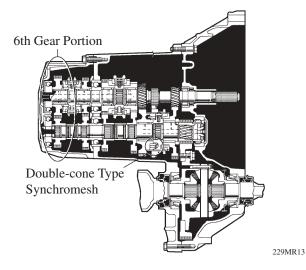
■MANUAL TRANSAXLE

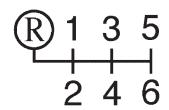
1. General

The Europe model of the new MR2 has been changed from the C52 5-speed manual transaxle to the C66 6-speed manual transaxle. This manual transaxle is based on the C52 type with a 6th gear added.

- The 6th gear reduces noise when driving at high speed and increases fuel economy.
- With the adoption of the 6th gear, the shift pattern has changed, and a reverse mis-shift prevention mechanism in the shift and select mechanism is used. Also, a warning buzzer (built into the combination meter) sounds when the shift lever shifts into reverse. This buzzer detects the reverse position using the back-up light switch.
- The helical gear type TORSEN* LSD (Limited Slip Differential) has changed from optional equipment to standard equipment. (*: TORSEN is ZEXEL's registered trademark.)
- The following items are used to increase shift feeling.

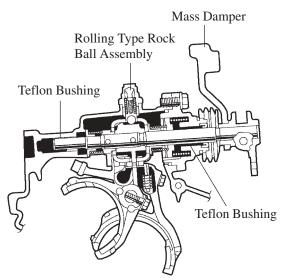
Mechanism	Item	C66	C52
Shift and Select	 Mass damper on the shift and select shaft Teflon bushings in support portion for shift and select shaft Rolling type lock ball assembly 	0	0
Gear Train	Double-cone type synchromesh mechanism for 2nd gear	0	0

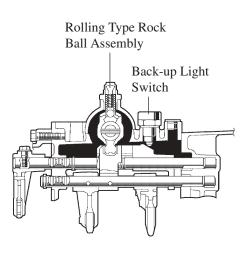




Shift Pattern

169CH08





229MR14 229MR15

81

▶ Specification **◄**

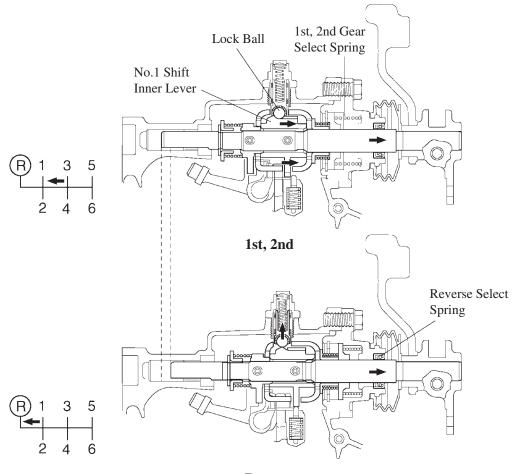
Model		New	Previous	
Туре		C66 (6-speed)	C52 (5-speed)	
	1st	3.166	←	
	2nd	1.904	+	
	3rd	1.310	←	
Gear Ratio	4th	0.969	←	
	5th	0.815	←	
	6th	0.725	_	
	Reverse	3.250	←	
Differential Gear Ratio		3.941	+	
Oil Capacity	without LSD	_	1.9 (2.0, 1.7)	
Liters (US qts, Imp. qts)	with LSD	2.1 (2.2, 1.9)	1.8 (1.9, 1.6)	
Oil Viscosity		SAE 75W-90	←	
Oil Grade		API GL-4 or GL-5	←	
Weight (Reference)*	without LSD	_	39.0 (86.0)	
kg (lb)	with LSD	43.5 (95.9)	40.5 (89.3)	

^{*:} Weight shows the figure with the oil fully filled.

2. Reverse Mis-Shift Prevention Mechanism

When an attempt is made to select 1st or 2nd from neutral, the select spring for the 1st and 2nd gear is activated. If a further effort is made to select in the reverse direction, the lock ball applies a load to overcome the protrusion of the No.1 shift inner lever and a load to push the reverse select spring.

As a result, the select operation load towards reverse becomes greater than the select operation load towards 1st or 2nd, thus preventing from miss shifting and facilitating the correct gear selection.



Reverse 228MR06