



Fitting instructions for

MFK925, MFK925E, MFK925E6, MFK925RB, MFK925RBE & MFK925RBE6

TH700 or 4L60E to Patrol Transfer Case Adaptor Kit

Thank you for purchasing a product manufactured by Marks 4WD Adaptors. The following instructions are intended as a guide. It is recommended that you purchase a workshop manual to suit your model vehicle.

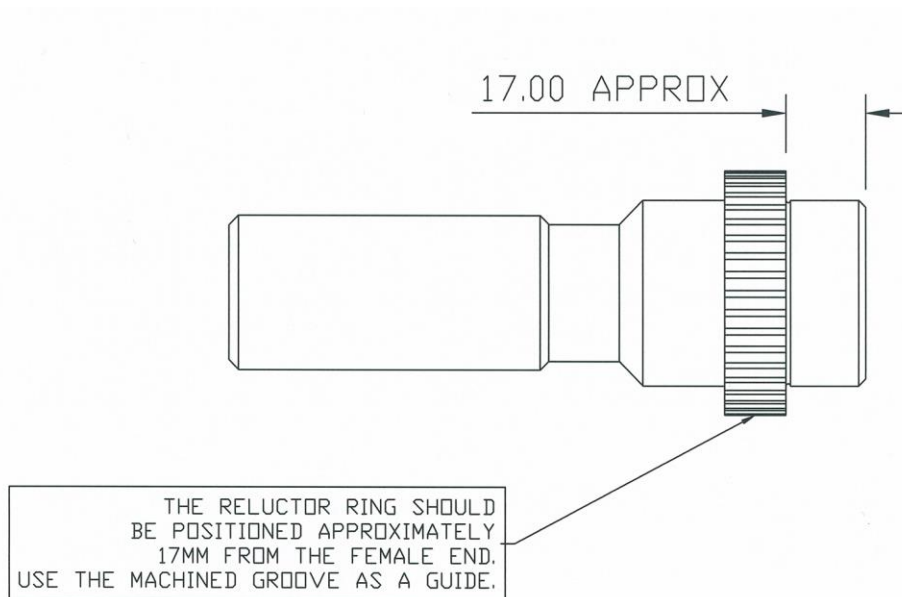
It is recommended that an automatic transmission specialist install the modified transmission output shaft to the automatic transmission. The automatic transmission requires complete disassembly as the output shaft runs from the inside of the transmission to the rear.

WARNING: Make sure your transmission specialist fits the correct seal to the front of the output shaft.

KIT NOTES

- a. The automatic transmission can be fitted without drive shaft length alterations. When fitting this kit to an automatic ZD30 Patrol, a manual Patrol cross-member and tail-shafts will be required.
- b. All automatic transmissions require the use of a suitable transmission cooler. This can either be incorporated into the original radiator or a remote type can be used.
- c. The transmission shift mechanism can either be an aftermarket floor shifter (such as Hurst or B&M) or alternatively a T-bar set up from a Commodore can be used with modification to the shift rod. Marks 4WD Adaptors manufacture a shifter display for the Commodore shifter this enables the shifter to be fitted without the Commodore console. Whichever shifter is selected you must have an inhibitor and reverse light switch incorporated in the assembly.
- d. The Hi-low linkage and brackets fitted to the factory automatic equipped Patrols will not suit this adaptor kit. We recommended that you use the lever, linkages and lockout plate from a manual vehicle.

1. Disconnect transfer case linkages, lock out plate and pivot pin from the original Nissan extension housing.
2. Unbolt the transfer from the rear of the transmission extension housing by un-doing the 14 bolts that secure it in place.
3. If you are fitting a 4L60E; heat the reluctor ring provided to 100°C using an oven (or a bowl of boiling water) and press onto the coupler shaft. Position the reluctor 17 mm from the female end of the shaft using the groove as a guide. See the drawing below.



4. Fit coupler shaft over the TH700/4L60E output shaft.
5. Fit the new seal supplied to the rear adaptor housing. The seal is to be fitted with the spring side facing the automatic transmission.
6. Fit the O-ring supplied with the automatic transmission, gasket kit to the locating spigot on the front of the adaptor housing. Bolt the adaptor housing and the 4 to 6 bolt adaptor if required to the rear of the automatic transmission using the socket head cap screws provided.

RB30 Models Only (6a, 6b & 6c)

- 6a. Cut the original transfer case shift linkage rod in half. Weld the new extension piece supplied between the two halves.
- 6b. Refit the linkage to the original lever. Then refit the assembly to the side of the adaptor housing. Secure it using the new lockout plate supplied.
- 6c. The oil catcher under the transfer case input seal needs to be cut off. If this is not done, the oil catcher will foul on the adaptor housing and oil seal. The photo below shows a transfer case with the oil catcher.



7. Making sure that the front transfer case face is clean, place a smear of silastic on the adaptor housing rear face then bolt up to the transfer case using the original bolts.
8. Refit the transfer case linkages, lock out plate and pivot pin to the extension housing.
9. Mount the transmission assembly to the vehicle using the original Nissan transfer case mounts on the new adaptor housing.
10. Refit front drive shaft. Check the clearance between the front shaft and the side of the automatic transmission. Simulate the up and down movement of the drive shaft as the front suspension travels. Modify the pan of the auto and the corner of the cover plate to allow for this movement.

The components supplied in the kit are designed for specific type conversions. Modifications to any components without the written consent from Marks 4WD Adaptors will void any possible warranty or return privileges. Should you have any further questions that are not covered in the instruction sheet, please contact our sales department for assistance.

Proudly Manufactured by:

**Marks 4WD Adaptors
385-393 Lower Dandenong Road, Dingley Victoria 3172
Tel: (03) 9552 6555**

Email: sales@marks4wd.com

Web: www.marks4wd.com