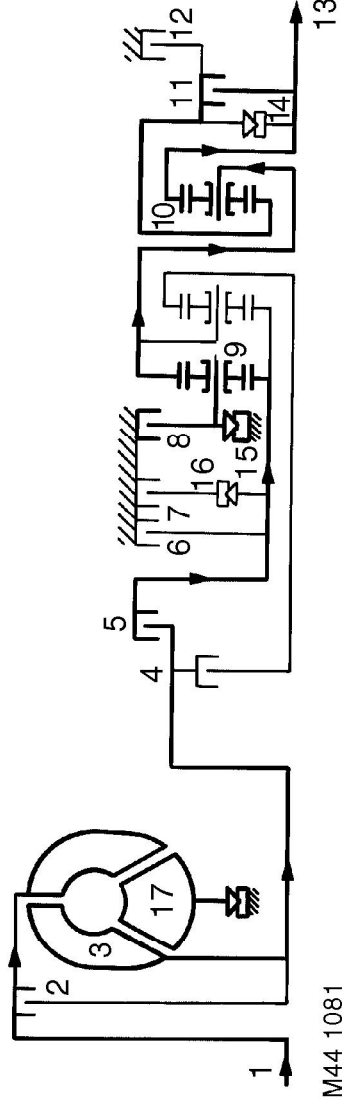


# AUTOMATIC GEARBOX - ZF4HP22 - 24

## Reverse gear



M44 1081

*Clutches (5), (8) and (11) are engaged. The front planet gear carrier of gear set (9) is locked. Gear set (10) also rotates as a solid block.*

### Gear position switch

The gear position switch outputs signals that are related to the position of the selector lever assembly. The switch is installed on the selector shaft on the left side of the gearbox. Slotted mounting holes allow the switch to be turned relative to the shaft for adjustment. A fly lead connects the switch to the vehicle wiring.

Movement of the selector lever assembly turns the selector shaft, which operates six pairs of contacts in the switch.

The pairs of contacts are identified as the W, X, Y, Z, Park/Neutral and Reverse contacts. When closed:

- The W, X, Y and Z contacts output a 12V ignition supply from the BCU.
- The Park/Neutral contacts output an earth.
- The Reverse contacts output a 12V ignition supply from the passenger compartment fuse box.

The outputs of the W, X, Y and Z contacts are monitored by the EAT ECU and the BCU to determine the position of the selector lever assembly.

### Gear position switch W, X, Y, Z outputs

Switch contacts	Output						
	P	R	N	D	3	2	1
W	12V	-	12V	12V	-	-	-
X	-	12V	12V	-	12V	-	-
Y	-	-	12V	12V	12V	-	12V
Z	-	-	-	12V	12V	12V	-

The Park/Neutral contacts output to the BCU and, on diesel models, the ECM. The Reverse contacts output to the BCU, the reversing lamps, the SLABS ECU and, where fitted, the ACE ECU and the electrochromic interior mirror.