● A 2nd mechanic is required when checking the free-wheel lock.

- To build up a vacuum for the positioning element start engine and run for approx. 30 seconds.

- Raise vehicle.

- Switch on ignition.

- Engage reverse gear.

- Depress clutch pedal.

- Rotate rear wheels forwards and backwards.

The propshaft must drive the front wheels when rotating in both directions.

Note:

When rotating forwards the free-wheel lock must be heard to engage immediately.

The following may be at fault if the rear wheels rotate forwards without resistance:

◆ Pneumatic system
- Pipes, hoses and connections
- Non-return valve and vacuum reservoir (located in front left wheel housing)
- Check for leaks using hand pump V.A.G 1390.
- Positioning element diaphragm

◆ Electrical system
- Check wiring and components for short or open circuit according to current flow diagram.
- Check solenoid in positioning element (must be heard to engage when switching on ignition).

Note:

If the pneumatic and electrical systems are OK then the free-wheel unit or the free wheel unit mechanical lock is defective.To service dismantle rear final drive => Page 39-112.