

TRANSFER BOX - LT230SE

Differential lock warning lamp switch - if fitted - Vehicles up to 03 model year

A differential lock warning lamp switch connected to the SLABS ECU and operated by movement of the selector fork and shaft is screwed into the top of the output housing. The switch connects to earth when the differential lock is engaged.

Differential lock warning lamp switches - Vehicles from 03 model year

Vehicles from 03 model year are fitted with two differential lock warning lamp switches.

Both switches are of a new design and are fitted into the top of the front output housing. The switches are connected to the SLABS ECU and are operated by movement of the selector shaft.

Both switches have an aluminium washer which seals the switch to the casing and also sets the switch position, removing the requirement for a setting procedure.

Both switches are connected in parallel to earth when the differential lock is engaged. This earth is sensed by the SLABS ECU which illuminates the differential lock warning lamp in the instrument pack.

Differential lock warning lamp - Vehicles up to 03 model year – if fitted

The differential lock warning lamp is located in the instrument pack and provides a warning to the driver when the ignition is switched on that the differential lock is engaged. The warning lamp illuminates in a Red colour.

With the lock engaged, the traction control and electronic brake distribution warning lamps will also be illuminated. Disengagement of the differential lock should be carried out with the ignition switched off. The warning lamps must be extinguished when the ignition is switched on again.

Differential lock warning lamp – vehicles from 03 model year

The differential lock warning lamp is amber coloured and is located in the instrument pack.

When the lock is engaged, the warning lamp is illuminated and the instrument pack sounder emits three audible chimes. When the lock is disengaged, the warning lamp is extinguished and the instrument pack sounder emits three audible chimes.

Rear output housing

The rear output housing carries the output shaft and flange. A cable operated transmission brake is attached to the housing, the brake drum being attached to the output flange.

The rear output shaft is supported in the housing by a single bearing and is splined into the differential rear sun gear.

Lubrication

Lubrication is by splash, oil filler/level and drain plugs being located in the main casing.

Internal pressures caused by thermal expansion and contraction are avoided by the use of a plastic breather pipe venting the interior of the box to atmosphere. The pipe is attached to the top of the high/low selector housing by a banjo bolt and is then routed in a continuously rising path into the engine compartment where the open end is secured by a clip attached to the engine cylinder block.

Oil temperature warning lamp switch

An oil temperature switch is fitted to V8 engine models up to 03 Model Year. In the event of the transfer box oil approaching maximum recommended working temperature of 145°C (293°F), the switch will close and a warning lamp in the instrument pack will be illuminated.