

DIFFERENTIAL & AXLE SHAFTS

1998 Volvo V90

DESCRIPTION & OPERATION

All models use type 1045 multi-link axle assembly. An automatic differential lock system is standard. The differential locking mechanism is controlled by a centrifugal governor. After it has engaged and automatically locked the differential, driving force is transferred to wheel with the most traction.

The device operates automatically when one of the drive wheels is spinning and vehicle speed is less than 25 MPH. Under normal conditions, the unit functions as a conventional differential, even at low speeds.

AXLE IDENTIFICATION

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Application	Axle Type
S90, V90 & 960	1045
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AXLE RATIO

Several different ratios are used. Plate attached to left or right rear side of final drive housing gives axle ratio, part number, and serial number. Divide number of ring gear teeth by number of drive pinion gear teeth to determine axle ratio.

LUBRICATION

CAPACITY & FLUID TYPE

DIFFERENTIAL CAPACITY & FLUID TYPE (1)

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Application	Quantity
1045	1.4 Qts. (1.3L)

(1) - Fluid type SAE 80-90W/API GL-5

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