

10	-	Brake disc
11	-	Drive flange
12	-	Shim washer and circlip
13	-	Dust cap
14	-	Constant velocity joint/shaft
15	-	Thrust collar for CV joint
16	-	Roller bearing
17	-	Spacer
18	-	Circlip
19	-	Top and bottom swivel taper bearing
20	-	Top and bottom swivel pins
21	-	Spherical housing, seal and retainer
22	-	Swivel housing
23	-	Constant velocity shaft seal

The front differential is mounted on the LH side of the chassis.

Operation

The welded steel front axle casing houses a separate spiral bevel type differential unit, which is off-set to the right of the vehicle centre line. The differential unit drives the front wheels via the axle shafts and constant velocity joints which are totally enclosed in the spherical and swivel housings.

The front wheels are pivoted on tape roller bearings at the top and bottom of the swivel housing. The wheel hubs on all axles are supported by two taper bearings and driven by drive flanges which are splined to the one piece, stub shaft/constant velocity joint.

Lubrication

The differential, swivel pin housing and wheel hubs are individually lubricated and separated by oil seals (7) and (8), see J6267A, to prevent oil transfer across the axle when the vehicle is traversing steep inclines. The wheel bearings are lubricated with grease and the swivel housing and differential with oil. On later vehicles, identified by having only a filler plug in the swivel housing, grease is used to lubricate the housing assembly,

Ventilation

Ventilation of the differential is through a plastic pipe (2) which terminates at a high level in the vehicle axle. The swivel housings ventilate through axle shaft oil seals (8) into the differential and the hub bearings vent via the oil seals into the swivel housing.