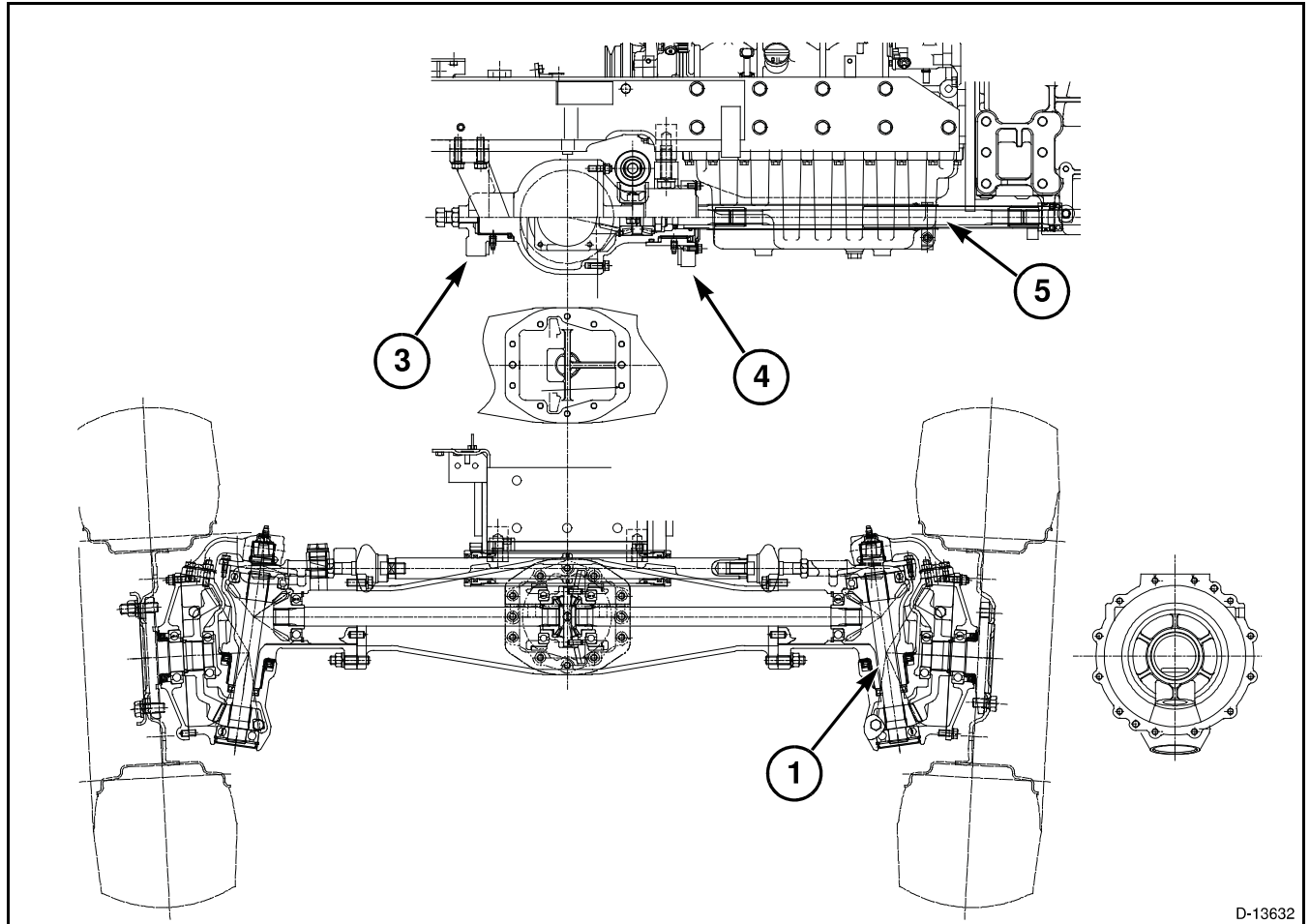


FRONT AXLE

FRONT AXLE CONSTRUCTION



D-13632

FIG. 1

FIG. 1: Front Axle Components

The swing angle of the front axle is seven degrees.

- (1) Front Final Case
- (2) Pivot Front
- (3) Pivot Rear
- (4) Power Steering Cylinder
- (5) 4WD Drive Shaft

The 4WD front axle is a center-pivot, reverse Eliot type. The front drive mechanism is incorporated as part of the axle.

The front wheel drive axle is powered by the transmission. The front axle differential divides the power to the left and right sides, respectively.

The front wheels are driven by bevel gears which are driven by input shafts. The 4WD mechanism with bevel gears provides wider steering angles and greater durability.

FRONT AXLE

SPECIFICATIONS

Wheel Alignment

Toe-in..... 2 to 6 mm (0.08 to 0.24 in)

Front Axle

Center Pivot Axle Diameter 55 mm (2.17 in)

Front Differential Housing Width..... 98 mm (3.858 in)

Pivot Housing Bushing Bore..... 65 mm (2.559 in)

Bearing Cover Shaft Diameter 35mm (1.378 in)

Housing Shaft Diameter 55 mm (2.17 in)

Housing Bushing Bore..... 55 mm (2.17 in)

Front Wheel Steering Angles To Stop Bolt 58 Degrees

Front Wheel Bolt Torques 163 Nm (120 lbf ft)

Front Axle End Float 0 to 0.2 mm (0 to 0.008 in)

Front Axle Oscillation 7 degrees

Front Ring and Pinion Backlash..... 0.1 to 0.2 mm (.004 to 0.008 in)