

# PART 5 — DRIVE AXLES — STEERING

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## DESCRIPTION

The MF 33 Tractor Shovel may be either a front wheel steer, a rear wheel steer or an all wheel steer. The axle servicing procedures are basically the same.

The axle assemblies consist of a conventional pinion, ring gear and differential, jointed axle shafts, steering joints, brake assemblies and planetary reduction hubs.

The differential assembly is a bevel gear and pinion type. The steering joint is aligned by, and turns on, two tapered roller bearings positioned in the same axis as the axle joint. The steering joint serves the same purposes as a "King Pin" in a conventional front steering axle. The planetary is a three pinion reduction gear type located in the wheel hub.

## REMOVAL AND INSTALLATION

The following procedures may be used to remove and install the complete drive axle as an assembly. Most of the service procedures can be performed without removing the axle from the Tractor. The basic procedures involve supporting the loader and main frame adequately to prevent possible injury.

### FRONT DRIVE STEER AXLE

1. To remove the front drive steer axle proceed as follows:
  - (a) Raise the loader bucket high enough to clear the front wheels and secure it in this position.