



AXLES

1. DESCRIPTION

FRONT AXLES

SUPER-A TRACTOR (See *Illust. 1*)

The front axle is of heavy duty, tubular, cast malleable iron construction. The center of the axle is mounted on a pivot shaft in the steering gear housing base. The pivot shaft extends back to the clutch housing, thus acting as a brace for the axle and the steering assembly.

The axle can be adjusted to obtain treads varying in increments of two inches. Bushings of the pivot shaft and the steering knuckles are furnished for service, reamed to size. Steering knuckle arms are attached to the steering gear arm by adjustable tie rods.

"I" SERIES TRACTORS (See *Illust. 2*)

The front axle is of forged I-beam construction and is center-mounted with a pivot pin in the bolster. The axle is braced by a stay rod to the underside of the front frame. The forged steel knuckles have ball thrust bearings, provided with a felt seal. The pivot of the steering knuckles rotates in steel-back bronze bushings. The shafts are a shrink fit and are welded to the steering knuckles.

Bolsters are equipped with leaf springs. The knuckle arms have stops for limiting the turning radius of the tractor.

REAR AXLES

SUPER-A TRACTOR

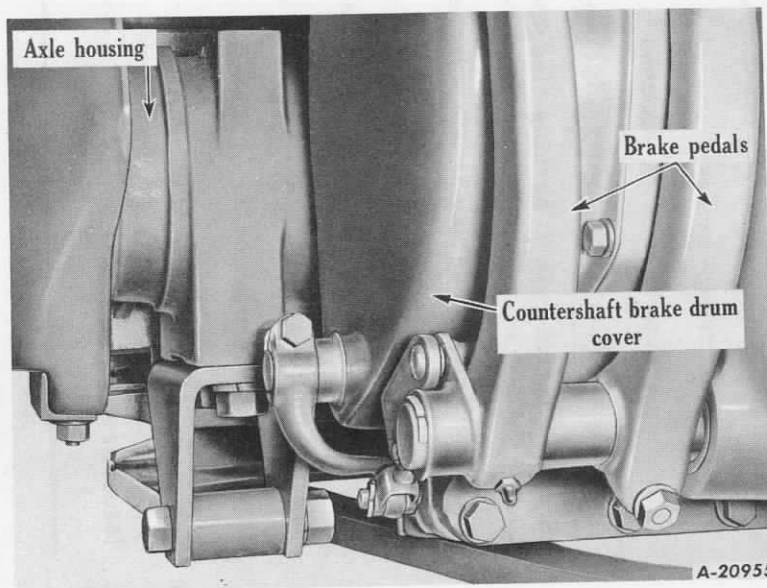
The rear axles are individual axle shafts on each side of the tractor, and are driven by a pinion on the outer end of each differential shaft. (See *Illust. 10.*) Axles, drive gears and the pinion ends of the differential shafts are all enclosed in the rear axle housings and run in a bath of oil. The capacity of the oil bath per axle is given in "Specifications" (par. 2).

"I" SERIES TRACTORS

The rear axle assemblies on the I-series tractors have identical final drives. The bull pinions and their shafts are of one-piece construction, and are mounted in bearing cages which also support the differential assemblies. The bull gear hubs are spline-mounted to the rear axle shafts.

Rear axle carriers, or housings, are of similar construction throughout the I-series. Some design changes are made in the form because of variations in types of drawbars and fenders fitted to certain types of tractors.

Two ball bearings are mounted in each axle housing and these carry the axle shafts. The housings are secured to the main frame. (See *Illust. 3.*)



ILLUST. 3 - REAR AXLE, "I" SERIES TRACTORS (ID-9 SHOWN).

A-20955