

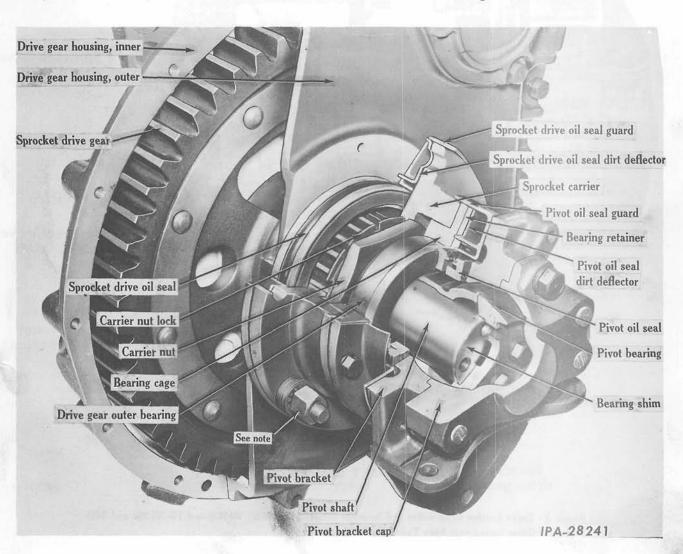
1. DESCRIPTION

The sprocket and sprocket drive assembly on these crawler tractors consists of a set of spur gears located in separate gear cases, one on each side at the rear of the tractor. Engine power is transmitted from the bevel drive gear through the steering clutches to the sprocket drives. The sprockets, which are attached to the sprocket carriers transmit power to the tracks. The sprocket drives and sprockets are ball and roller bearing mounted on the stationary pivot shaft.

The sprocket drive pinion is driven by a splined shaft (extending from the steering clutch).

A large sprocket drive gear (driven by the pinion) drives the carrier and sprocket. Each sprocket drive is completely enclosed in a gasket sealed compartment between the inner and the outer drive gear housings (Illust. 1) or between the sprocket drive gear carrier and the sprocket drive gear cover (Illust. 2) on wide tread tractors.

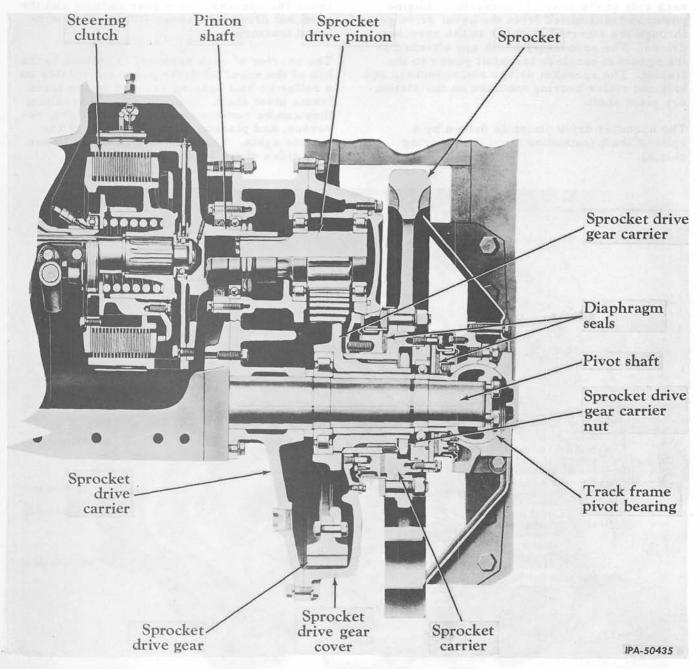
The carrier of each sprocket is splined to the hub of the sprocket drive gear, and rotates on a roller or ball bearing pressed on the track frame pivot shaft. Sprockets are reversible; they can be removed from their carriers, reversed, and placed on the same side of the tractor again. This makes it possible to use both sides of the sprocket teeth.



Illust. 1 - Cutaway View of Sprocket Drive on Regular Tread Tractors.
(14, 18 and old 18A Series)

NOTE: The sprocket is not shown above; if it were shown, it would be installed on the sprocket carrier under the nut indicated.





Illust. 2 - Cross Section of Sprocket and Sprocket Drive. (18A(181), 18(182) and TD-20(200 and 201) Series. Other Series with Wide Tread are Similar.)



2. SPECIFICATIONS

Description	14 and 15 Series	18 and 20 Series
NUMBER OF TEETH:	1 14 147	La chesa marmo
Sprocket	27	29
Sprocket Drive Pinion:	o anda " "	20 pt 40 20 pt 10
Regular and Wide Tread		7 - 7 - 4
Serial No. TDF-501 to 3886	14	In a legisla a Take
TDR-501 to 3717	13	14
TDR-3718 to TD-181-34549	12	13
Serial No. TD-150-501 to TD-150-1788 (regular tread only)	12	Serial No. 1 and acres
Serial No. TD-150-1789 up and TD-151-4001 up		The street of the street
(regular tread only)	11	my-lea II
Wide Tread Only		A COLOR OF THE RESPONSE
Serial No. TD-142-43666 up	11 11	WOULDT AALD THE
Wide Tread Became Regular		
Serial No. TD-181-34550 to TD-182-38639		12 11 11
Sprocket Drive Gear:	70	
Serial No. TDF-501 to 3886	67	
TDR-501 to 3717	62	73
TDR-3718 to TD-181-34549 Serial No. TD-141-40601 up and TD-142-41551 up .	61	68
Serial No. TD-150-501 to TD-150-1788 (regular		THE RESERVE OF THE RE
tread only)	61 60	The state of the s
Serial No. TD-150-501 up and TD-151-4001 up (wide tread only)	60	Service of the R
Serial No. TD-150-1789 up and TD-151-4001 up (regular tread only)	60	
Serial No. TD-181-34550 to TD-182-38639	00	70
Serial No. TD-182-38640 up	e in	69 69
OUTPUT REDUCTION:		and the same of th
Serial No. TDF-501 to 3886	4.78 to 1	F 21 to 1
TDR-501 to 3717	4.75 to 1	5. 21 to 1
TDR-3718 to TD-181-34549	5.00 to 1	5.23 to 1
Serial No. TD-150-501 to TD-150-1788 (regular tread only)	5.00 to 1	
Serial No. TD-142-43666 up (wide tread only) Serial No. TD-150-501 up and TD-151-4001 up	5.45 to 1	
(wide tread only)	5.45 to 1	





2. SPECIFICATIONS - Continued

Description	14 and 15 Series	18 and 20 Series
OUTPUT REDUCTION - Continued		a, itt to alleas
Serial No. TD-150-1789 up and TD-151-4001 up (regular tread only)	5.45 to 1	and any
Serial No. TD-181-34550 to TD-182-38639 Serial No. TD-182-38640 up		5.83 to 1 6.27 to 1
Serial No. TD-200-501 up and TD-201-3001 up		6. 27 to 1
BACKLASH (inches):		
Serial No. TD-141-40601 up, TD-142-41551 up, and TD-150-501 to 1788 (regular	014 034	-30 at 500
tread only)	.016024	.016024
TD-151-4001 up (wide tread only) Serial No. TD-182-38640 up, TD-20-501 up and	.014020	The lates
TD-201-3001 up		.013021
(regular tread only)	.014020	P S BL MAN
SPECIAL TORQUE DATA (foot pounds): (All threads lubricated with SAE-30 engine oil)	Miletel Committee	
Sprocket carrier bolt nut		440 - 490 630 - 700
Sprocket drive gear carrier hat	TLANT OF LOND	280 - 320
Serial No. TD-150-1789 up and TD-151-4001 up	14141052111415	
(regular tread only)		660 - 740
Sprocket drive gear dowel bolt nuts	255 - 285	255 - 285
BEARINGS: Sprocket drive pinion, inner and outer	Ball	Ball
Serial No. TD-142-43666 up (wide tread only) Serial No. TD-150-501 up and TD-151-4001 up		s report of the later of
(wide tread only)		Les tables
(regular tread)	Roller	Roller
Sprocket drive pinion shaft (wide tread) Serial No. TD-150-1789 up and TD-151-4001 up		Ball
(regular tread)	Ball	to the later of th
Sprocket drive gear, inner and outer	Ball	Ball
Serial No. TD-141-40601 up (inner) Serial No. TD-150-501 up and TD-151-4001 up	Roller	Tombot okuse
(inner)	Roller	and the same multiple of
TD-201-3001 up (inner)		Roller

3. CHECKING MECHANICAL PROBLEMS

PROBABLE CAUSE

REMEDY

Sprocket Drives Overheating

Improper or insufficient lubrication Use proper grade and amount of lubricant.
 Check for leaks.



	ORTC
PROBABLE CAUSE	REMEDY
2. Bearing seizure	Remove the sprocket drive and inspect for damaged bearings. Replace if necessary.
Sprocket Driv	re Gear Noisy
 Misaligned or damaged gears Improper, dirty or insufficient lubricant 	Inspect the gears and replace if necessary. Use proper grade and amount of lubricant.
Lubricant	t Leakage
1. Faulty gasket	Oil leaks may occur at sprocket drive gear cover gasket or at other gaskets. Replace gaskets.
2. Faulty oil seals	Replace oil seals.
Excessive	Backlash
1. Sprocket drive or pinion shaft worn or damaged	Replace worn or damaged parts if necessary.
Excessive Wed	ar on Sprockets
1. Tracks run too loosely	Adjust the tracks. (Refer to Section 9.)

2. Tracks worn excessively

3. Track frame out of alignment or damaged .

Install new tracks. (Refer to Section 9.)

Repair, or install new frame.