706, 806, and 1206 Series Tractors Power Train

Service Manual

GSS-1342-D

CASE IH AGRICULTURE

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GENERAL

The power train of the 706, 806 and 1206 Series Tractors is basically the same in its design. The only difference is the size of bearings and gears which will vary with models.

The tractors may be equipped with power shift torque amplifier, 540 or 1000 RPM independent power take-off (1206, 1000 RPM only), hydraulic system and high clearance attachments for 706 and 806.

All tractors will have a 9 gpm hydraulic pump located in the bottom of the clutch housing to provide fluid for the hydrostatic power steering, power brakes and for lubrication of the power train. This pump will also supply fluid to the power shift clutches in the TA on tractors so equipped.

NOTE: Refer to GSS-1343 for complete information on all hydraulic and lubrication circuits.

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SPECIFICATIONS

Clutch

Size (706 and 806)	12 inches
(1206)	14 inches
Type (706 and 806)	Spring loaded or over-center
(1206)	Spring loaded
Driven member	Aircraft friction pad

	706	806	1206
Springs			
Free length (inches)	2-13/16	2-11/16	2-3/4
Test length (inches)	1-13/16	1-13/16	1-13/16
Test load (lbs.) minimum	110	130	160
New springs (lbs.)	115 to 125	135 to 145	166 to 176
Finger height (inches)	2.301	2.301	2.301
*Back plate to pressure plate (inches)	1.020	1.020	1.469

*Use tubular spacer and gauge block (No. 5 for 706 and 806, and No. 25 for 1206) to adjust clutch on clutch Service Tool FES 50.

Speed Transmission

Countershaft nut torque (2-3/4" nut) (use FES 107 socket)	100 ft. lbs.

Torque Amplifier

Clutch carrier nut torque (3 nuts)	56 ft. lbs. lubricated
Lock-up carrier capscrew torque (3)	20 ft. lbs. lubricated

Range Transmission

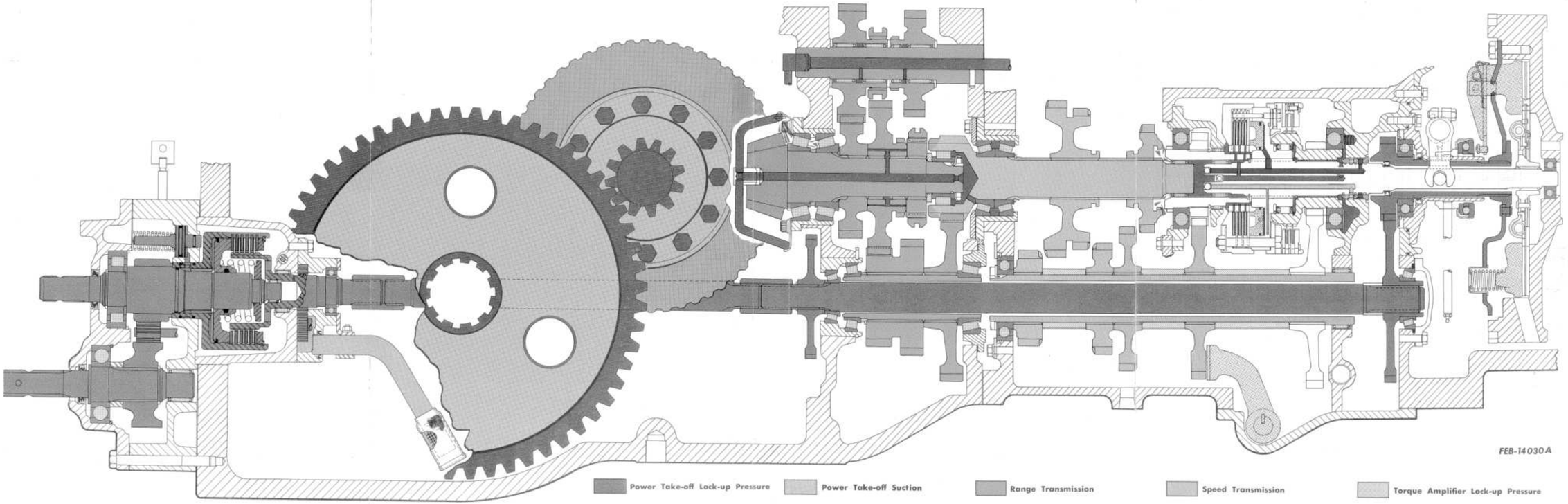
Main shaft retaining nut torque	100 ft. lbs.
Bearing cage (12 pt. screws)	85 ft. lbs.

Differential

Backlash (12 tooth pinion)	.005 to .012 inch
(13 tooth pinion)	.005 to .015 inch
Torque on bolts	112 ft. lbs.
Retainer capscrews	75 ft. lbs.

Each .010 shim change on differential retaining cage changes backlash .0075 inch.

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