Delivery Service, General Information, and Service Procedures for 656 Series Tractors

Service Manual

GSS-1054

CASE IH AGRICULTURE

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Section 2

SPECIFICATIONS

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SPECIFICATIONS

Engine	Gas	LPG	Diesel
Model	C-263	C-263	D-282
Number of cylinders	6	6	6
Type of cylinder sleeves	Dry	Dry	Dry
Bore and stroke - inches	3-9/16 x 4.39	3-9/16 x 4.39	3-11/16 x 4.39
Displacement - cu. inches	263	263	282
Compression ratio	7.6-1	8.8-1	17.7-1
Compression pressure at 300 rpm (±10 psi)	194	210	350
Fuel system			
Carburetor (Zenith)	Updraft 267-1-1/4		
(IH)	Updraft 1-1/4		
(American Bosch)		Updraft CBX150A	
Injection pump (Roosa Master)			DBGFC 631-26AJ
Engine speed - rpm			
Full load	1800	1800	1800
High idle	1980 ± 25	1980 ± 25	1960 ± 25
Low idle	425 ± 25	425 ± 25	650 ± 25
Valve lash - inches (hot)			
Intake	.027	.027	.027
Exhaust	.027	.027	.027
Ignition timing (degrees) (±1°)			
At 375 rpm	4 ATDC	6 ATDC	
At high idle	19 ATDC	19 ATDC	
Diesel timing (degrees)			
Static			TDC
Full cam advance (pump degrees)			3
Start of cam advance (rpm, engine)			1200-1400
Full cam advance (rpm, engine)			1960
Cam advance at 1800 rpm engine speed (pump degrees)			2
Electrical Equipment			
Distributor			
Code	AD	AR	
Point gap - inches	.020	.020	
Spark plugs			
Size	18 MM	18 MM	
Gap - inches	.023	.015	
Voltage regulator			
Model (Delco-Remy) DC	1119270	1119270E	1119270
AC	1119516	1119516	1119516
Type DC	3-unit	3-unit	3-unit
AC	2-unit	2-unit	2-unit
Generator			
Model (Delco-Remy) DC	1100394	1100394	1100395
AC	1100720	1100720	1100720
Cranking motor			
Model (Delco-Remy)	1107744	1107543	1113187

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Engine Clutch

Type	Spring loaded
Size	11-inch
Driven member	Aircraft friction pad
Springs (52907-D)	
Number	9
Free length - inches	2
Test length - inches	1-7/16
Test load - lbs.	165 Min.
Finger height - inches	2.495
*Back plate to pressure plate - inches	1.057

* *Use spacer and gauge block No. 26 to adjust clutch on clutch Service tool FES 50.

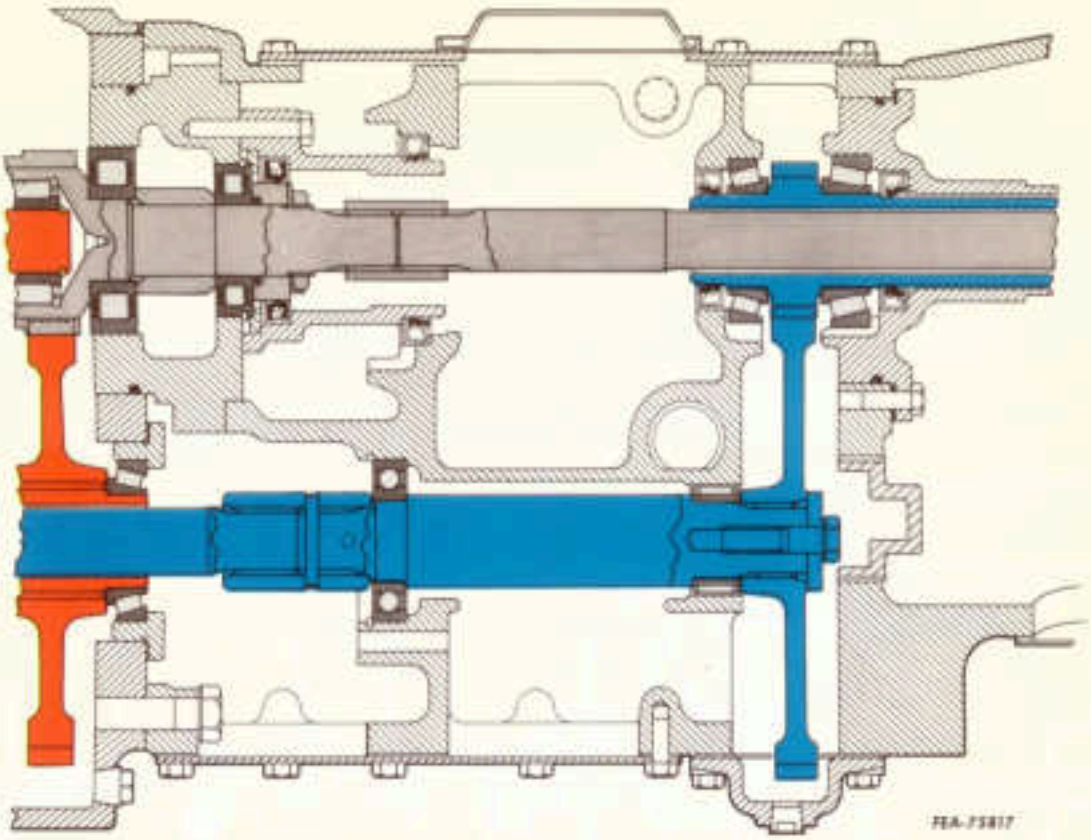
Torque Amplifier

Type	Planetary gear reduction unit
Type of planetary system	Compound planet gear
Gear ratio	1.482 to 1
Control	Manual
Bearings:	
Front sun gear	Needle (2) (torrington)
Rear sun gear	Needle (torrington) at front ball at rear
Planet gear	Needle
Clutch release	Ball, thrust
Planet carrier	Ball (2)
Clutch, TA drive	
Type	Spring loaded, single plate, dry disc
Size - inch	7
Clutch, TA unit overrunning	
Type	Ramp and roller
Number of rollers	8

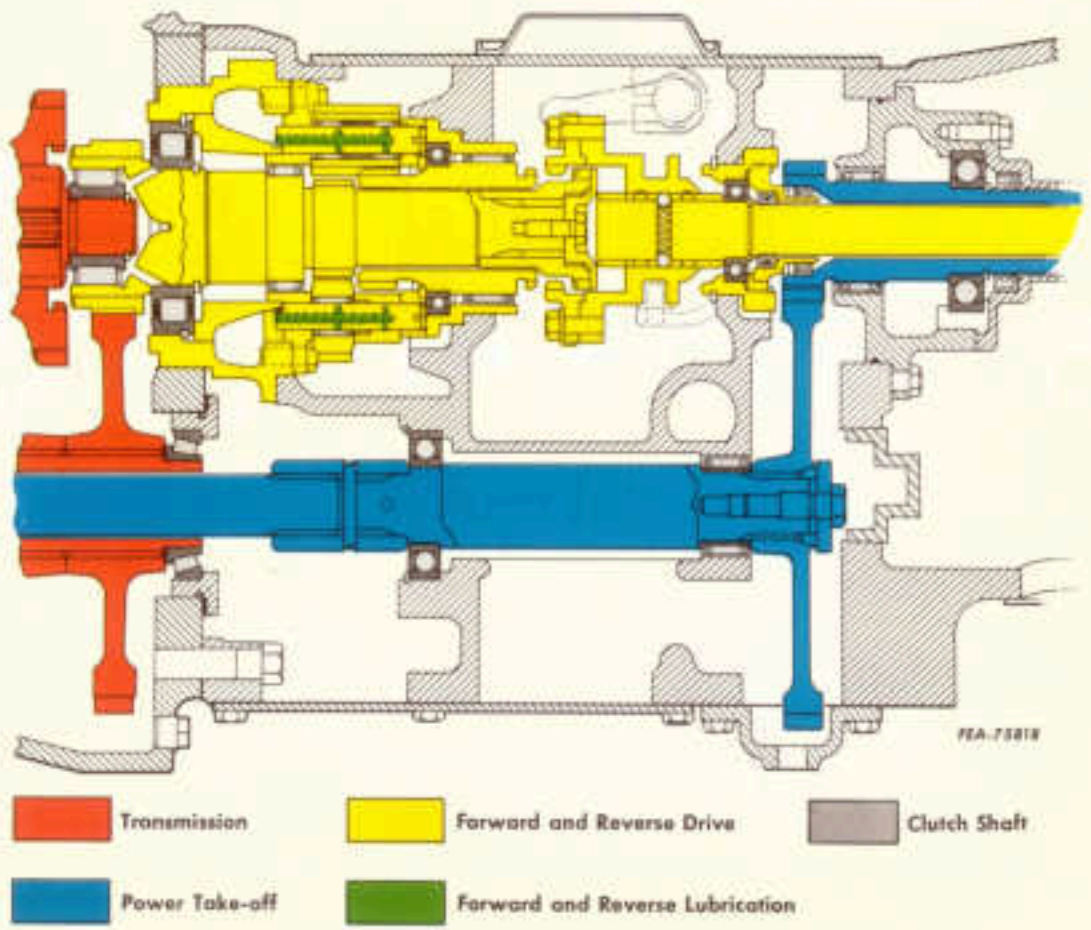
Forward and Reverse Drive

Poppet spring and balls	
Spring free length - inches	1.086
Test length - inch	57/64
Test load - lbs.	10.2
Ball size (2) - inch dia.	5/16
O-ring, selector lever shaft (2)	11/16 inch ID x 7/8 inch OD x 3/32 inch thick
O-ring, IPTO bearing cage	5-1/4 inches ID x 5-1/2 inches OD x 1/8 inch thick

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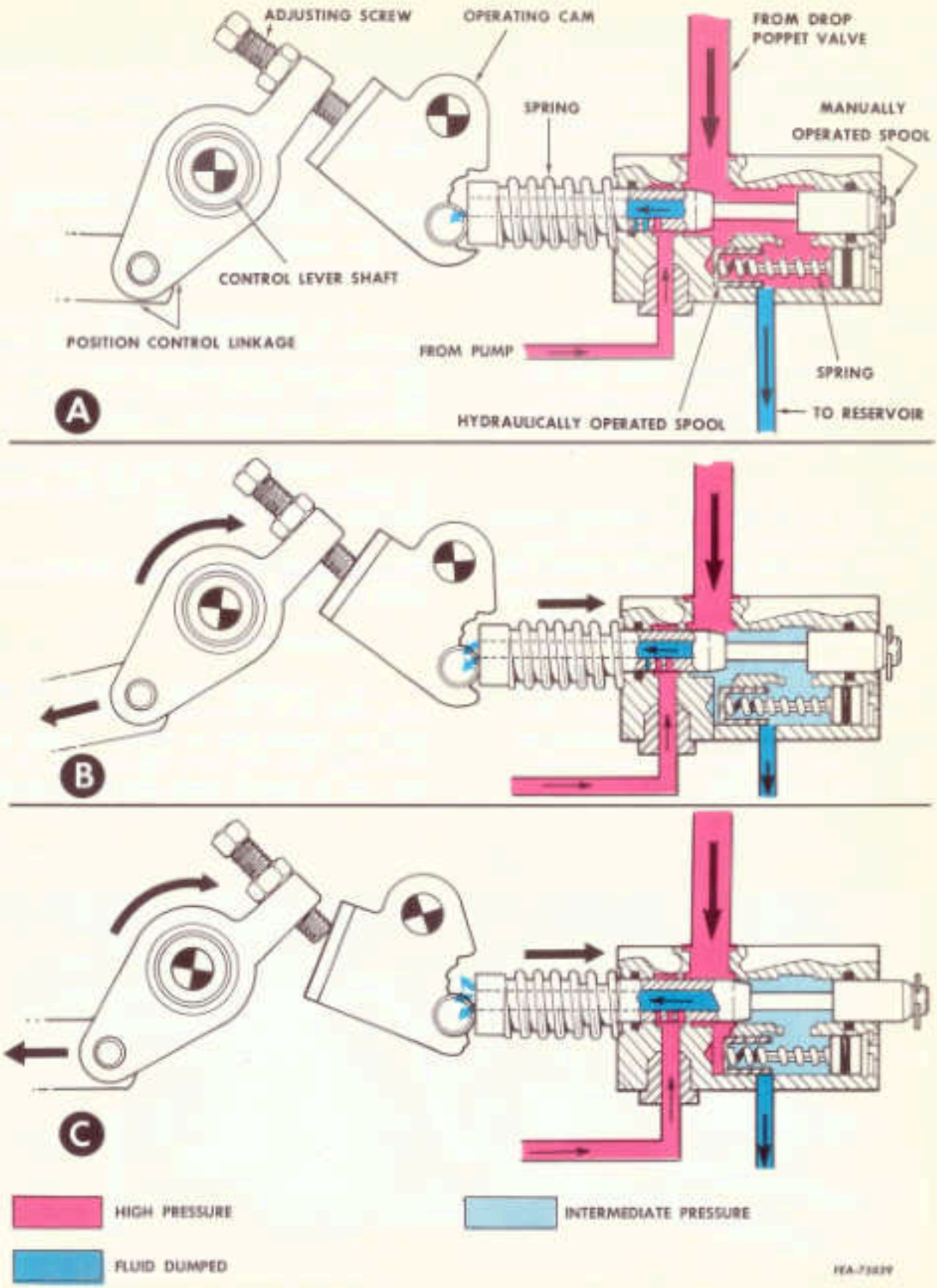


Illust. 2. Clutch housing assembly (tractors without T.A.).



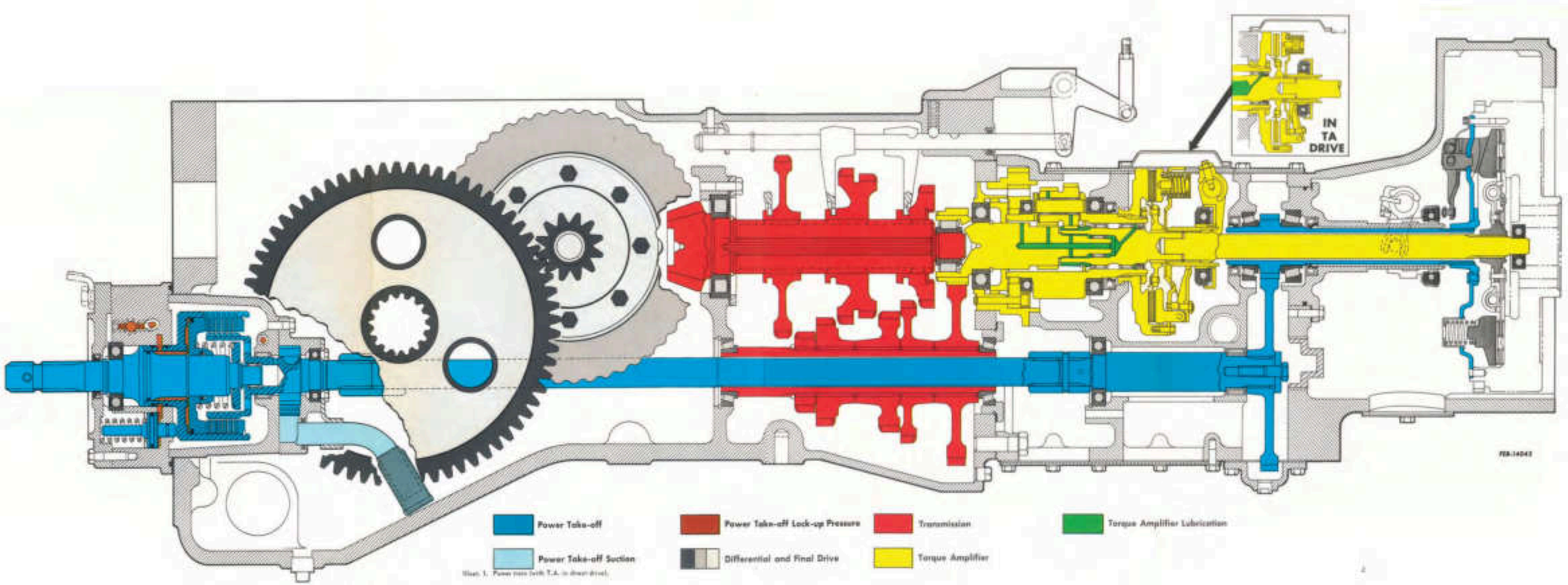
Illust. 3. Clutch housing assembly (tractors with Forward and Reverse).

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Illust. 46. Action control valve schematic (3 positions).

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Sheet 1. Power train (with T.A. in direct drive).

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