D-236, D-282 and D-301 Fuel System Diesel Engine

Service Manual

Form GSS-1010-B

CASE IH AGRICULTURE

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SPECIFICATIONS

	F & I 460	F & I 460	F & I 560	F & I 560	I 660	F & I 606	F & I 706	101 Combine	101 Combine	151 Combine	151 Combine	181 Combine	181 Combine	403 Combine	503 Combine	414 & 420 Cotton Picker	414 & 420 Cotton Picker
PUMP MODEL Roosa Master No. (DBGFC-Engine Model	629-1AE D-236	629-27AE D-236	631-1AE D-282	631-49AE D-282	631-67AE D-282	629-40AE D-236	631-20AJ D-282	629-9AE D-236	629-34AE D-236	631-20AE D-282	631-62AE D-282	631-21AE D-282	631-63AE D-282	631-18AJ D-301	631-15AJ D-301	631-65AE D-282	631-69AE D-282
PUMP SPEED	1/2 ENGINE SPEED																
DRIVE	FRONT OF CRANKSHAFT																
ROTATION (Viewed from drive end)	CLOCKWISE																
PUMP ADVANCE TYPE	Load	Load	Load	Load	Load	Load	Speed	Load	Load	Load	Load	Load	Load	Speed	Speed	Load	Load
GOVERNED ENGINE SPEEDS																	
Low Idle	625-675	625-675	625-675	625-675	625-675	625-675	625-675	1025 ± 25	1025 ± 25	950 ± 25	950 ± 25	950 ± 25	950 ± 25	950 ± 25	950 ± 25	625-675	625-675
High Idle	1965 ± 35	1965 ± 35	1965 ± 35	1965 ± 35	2615 ± 40	2180 ± 40	2510 ± 40	2125 ± 40	2125 ± 40	2125 ± 40	2125 ± 40	2125 ± 40	2125 ± 40	2615 ± 40	2835 ± 40	2250 ± 40	2180 ± 40
Rated Load	1800 ± 10	1800 ± 10	1800 ± 10	1800 ± 10	2400 ± 10	2000	2300	1950 ± 10	1950 ± 10	1950 ± 10	1950 ± 10	1950 ± 10	1950 ± 10	2400	2600 ± 10	2000 ± 10	2000 ± 10
PUMP TIMING TO ENGINE (Static) (End of injection) (Crankshaft degrees)	3°BTDC	TDC	3°BTDC	3°BTDC	5°BTDC	TDC	TDC	TDC	TDC	3°BTDC	3°BTDC	3°BTDC	3°BTDC	TDC	2°ATDC ±1/2°	4°BTDC	3°BTDC
AUTOMATIC LOAD ADVANCE PUMPS																	
Total Cam Movement (Pump degrees)	4°	4°	4°	4°	4°	4°	--	4°	4°	4°	4°	4°	4°	--	--	4°	4°
Degrees Advance at All Idle Speeds	4°	4°	4°	4°	4°	4°	--	4°	4°	4°	4°	4°	4°	--	--	4°	4°
Degrees Advance at 40-60% Rated Load (Wide open throttle)	2°	2°	2°	2°	2°	2°	--	2°	2°	2°	2°	2°	2°	--	--	2°	2°
Degrees Advance at 100% Rated Load	0°	0°	0°	0°	0°	0°	--	0°	0°	0°	0°	0°	0°	--	--	0°	0°
SPEED ADVANCE PUMPS																	
Full Cam Advance	--	--	--	--	--	--	3	--	--	--	--	--	--	3	5	--	--
Pump degrees	--	--	--	--	--	--	(1-1/2 marks)	--	--	--	--	--	--	(1-1/2 marks)	(2-1/2 marks)	--	--
RPM	--	--	--	--	--	--	Between 1800-2100	--	--	--	--	--	--	Between 1900-2300	2600	--	--
Start of Cam Advance																	
RPM	--	--	--	--	--	--	Between 1200-1400	--	--	--	--	--	--	Between 1100-1400	Between 1400-1650	--	--

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