SHOP MANUAL CASE/INTERNATIONAL

MODELS 235, 235H, 245, 255, 265 & 275

The tractor model number and product identification (serial) number is on a plate located on the right side of the front frame rail. The engine serial number is stamped into the injection pump mounting pad on right side of engine. Serial number of the ROPS (Roll Over Protective Structure) is located on right side of structure. On some models, the transmission serial number is stamped into the right of case.

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DUAL DIMENSIONS

This service manual provides specifications in both U.S. Customary and Metric (SI) systems of measurement. The first specification is given in the measuring system perceived by us to be the preferred system when servicing a particular component, while the second specification (given in parenthesis) is the converted measurement. For instance, a specification of 0.011 inch (0.28 mm) would indicate that we feel the preferred measurement in this instance is the U.S. Customary system of measurement and the Metric equivalent of 0.011 inch is 0.28 mm.

CONDENSED SERVICE DATA

	235, 235H	245	Models 255	265	275
GENERAL					
Engine Make	КЗВ	K3D	—Mitsubishi – K3E ——3——	КЗН	K3M
Bore	68 mm (2.677 in.)	73 mm (2.874 in.)	76 mm (2.992 in.)	78 mm (3.071 in.)	84 mm (3.307 in.)
Stroke —		—— 78 mm——			nm ———
Displacement	940	(3.071 in.) 979 cc	1001	(3.548	
Displacement	849 cc (51.81 cu.in.)	(59.74 cu.in.)	1061 cc	1290 cc (78.72 cu.in.)	1496 cc
Compression Ratio				(10.12 cu.iii.)	(91.29 cu.iii.)
TUNE-UP					
Firing Order — Valve Clearance, Cold —					
Inlet —					
Exhaust			(0.010 in.)		
Exhaust			0.25 mm (0.010 in.)		
Valve Face and Seat Angle —			(0.010 III.)		
Inlet					
Injector —					
Opening Pressure —					
Engine Low Idle		(1565-1849 psi)	000 050	(2134-24	118 psi)
Engine High Idle					2825-2880
Engine Rated Speed	2700	2700	2800	2700	2700
Battery —	2100	2100	2800	2700	2100
Voltage —					
Ground —			— Negative —		
Transmission —					
Types Available	*	†	†	†	‡
Speeds — Sliding gear	6F - 2R	·			
Hydrostatic	Variable $\times 2$				
Constant mesh			— 9F - 3R —		
Synchromesh			9F	- 3R	
SIZES					
Crankshaft Main Journal					
Diameter		—— 52 mm—— (2.0472 in.)			
Crankshaft Crankpin		(2.0472 in.)		(2.44)	in.)
Diameter		—— 42 mm——		48 m	ım
		(1.6535 in.)		(1.890	
Piston Pin Diameter —	19 m		_	—— 23 mm ——	
W1 0 D:	(0.905)	,		(0.905 in.)	
Valve Stem Diameter —		—6.6 mm —		8.0 m	
		(0.2598 in.)		(0.3150) in.)

CONDENSED SERVICE DATA (CONT.)

			Models		
	235, 235H	245	255	265	275
CLEARANCES					
Main Bearing, Diametral					
Clearance, Maximum —					
			(0.004 in.)		
Rod Bearing Diametral					
Clearance, Maximum —		-			
			(0.006 in.)		
Camshaft Bearing, Diametral					
Clearance, Maximum —					
Front			——0.15 mm —		
			(0.006 in.)		
Crankshaft End Play,					
Maximum					
			(0.004 in.)		
CAPACITIES					
Cooling System	6 L		3 L ———		
	(6.34 qt.)	(5.6	6 qt.)	(6.1 qt.)	(6.34 qt.)
Crankcase					
With Filter	3.5 L		5 L ———		
	(3.70 qt.)	(4.8	3 qt.)	(5.0) qt.)
Transmission					
Constant Mesh			0 L		••••
au 1 a	40.7	(5.3	gal.)	(12.2 gal.)	
Sliding Gear	12 L	-			
2 1 1	(3.17 gal.)	0	- 1	40.7	,,
Synchronized	••••		5 L		#
TT 1	141	(6.6	gal.)	-	
Hydrostatic	14 L				
Front Drive Aule	(3.70 gal.)	0	E T		7.3 L
Front Drive Axle	2.5 L		.5 L ———		
	(2.6 qt.)	(3.	7 qt.)		(7.7 qt.)

* Model 235 is equipped with a sliding gear transmission and 235H model is equipped with a hydrostatic transmission. Both the sliding gear transmission and the variable speed (F/R) hydrostatic transmission are coupled to a two speed, range transmission.

† Models 245, 255 and 265 may be equipped with either a constant mesh transmission or a synchromesh transmission. Both constant mesh and synchromesh transmissions are coupled to a three speed range transmission, which provide 9 forward and 3 reverse speeds. The constant mesh transmission is used without live pto; the synchromesh transmission is used with live pto.

‡ Model 275 tractors are equipped with a three forward and 1 reverse speed synchromesh transmission coupled to a three speed range transmission, which provides 9 forward and 3 reverse speeds.

On 275 models, capacity of the gear transmission is 6.5 L (1.7 gal.), capacity of the range transmission is 19 L (5.0 gal.), and capacity of the rear axle gear case is 3 L (0.8 gal.) for each side.

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