NEW HOLLAND
TC18D
TC21D
Tractors

SERVICE
MANUAL



6045507100

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CRANKSHAFT (Continued)		
Tractor Model	**TC18D**	**TC21D**
Journal-to-Cylinder Block Bearing Clearance		
Standard	0.039 - 0.101 mm (0.0015 - 0.004 in.)	0.039 - 0.101 mm (0.0015 - 0.004 in.)
Maximum	0.2 mm (0.0079 in.)	0.2 mm (0.0079 in.)
No. 1, 2, & 3 Main Journal Regrind Size		
0.25 mm undersize (0.010 in.)	45.714 - 45.725 mm (1.7998 - 1.8002 in.)	45.714 - 45.725 mm (1.7998 - 1.8002 in.)
0.50 mm undersize (0.020 in.)	45.464 - 45.475 mm (1.7889 - 1.7904 in.)	45.464 - 45.475 mm (1.7889 - 1.7904 in.)
No. 4 Main Journal Regrind Size		
0.25 mm undersize (0.010 in.)	45.704 - 45.715 mm (1.7994 - 1.7998 in.)	45.704 - 45.715 mm (1.7994 - 1.7998 in.)
0.50 mm undersize (0.020 in.)	45.454 - 45.465 mm (1.7895 - 1.790 in.)	45.454 - 45.465 mm (1.7895 - 1.790 in.)
Crankpin Regrind Size		
0.25 mm undersize (0.010 in.)	38.714 - 38.725 mm (1.5242 - 1.5246 in.)	38.714 - 38.725 mm (1.5242 - 1.5246 in.)
0.50 mm undersize (0.020 in.)	38.464 - 38.475 mm (1.7889 - 1.7904 in.)	38.464 - 38.475 mm (1.7889 - 1.7904 in.)

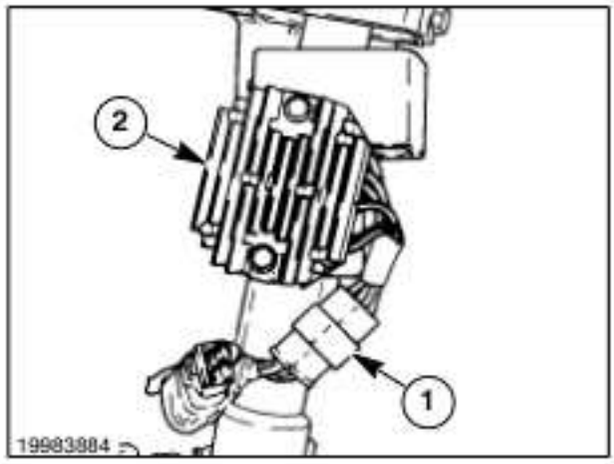
CAMSHAFT		
Tractor Model	**TC18D**	**TC21D**
Cam Height-Valve		
Standard	26.565 - 26.62 mm (1.045 - 1.048 in.)	26.565 - 26.62 mm (1.045 - 1.048 in.)
Minimum	26.2 mm (1.031 in.)	26.2 mm (1.031 in.)
Cam Height-Fuel		
Standard	33.94 - 34.06 mm (1.335 - 1.341 in.)	33.94 - 34.06 mm (1.335 - 1.341 in.)
Minimum	33.8 mm (1.33 in.)	33.8 mm (1.33 in.)
Bend		
Standard	0.03 mm (0.001 in.)	0.03 mm (0.001 in.)
Maximum	0.1 mm (0.004 in.)	0.1 mm (0.004 in.)

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CONDITION	POSSIBLE CAUSE	REMEDY
Steering wheel will not return to neutral or will turn by itself	1. ORBITROL	
	(1) Spool and sleeve combination is stuck and will not rotate.	Replace control valve assembly.
	(2) ORBITROL not aligned to steering column.	Re-align.
Cylinder will not follow steering wheel rotation or will respond sluggishly.	1. ORBITROL	
	(1) ORBITROL has been improperly rebuilt, resulting in valve mistiming.	Repair.
	2. Steering cylinder	
	(1) Air is trapped in the cylinder.	Bleed air out.
	(2) Internal oil leakage because of damaged piston seal.	Replace the seal.
Steering wheel will "kick back"	1. ORBITROL	
	(1) ORBITROL has been improperly rebuilt, resulting in valve mistiming.	Repair.
	2. Piping	
	(1) Pipes are improperly connected to the four ports of ORBITROL.	Correct the pipe connections.
Oil leakage		
1. From the splined connection of column to spool.	1. Leaky oil seal	Replace the seal.
	(1) Dirty hydraulic oil.	Change the oil.
2. From mated face joints (valve body, spacer plate, ORBITROL, end cap).	2. Damaged O ring	Replace.

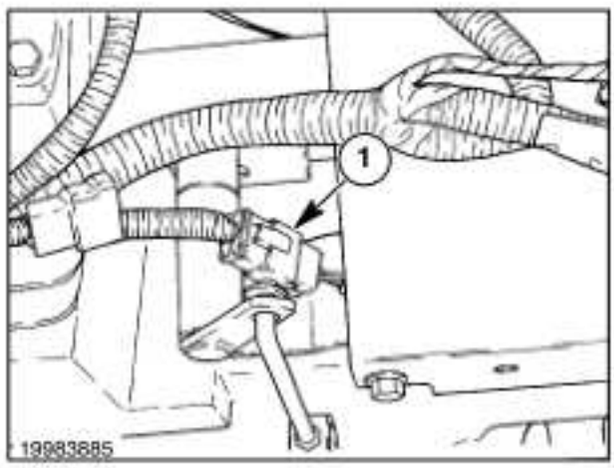
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22. Disconnect the electrical connector, 1, from the voltage regulator, 2 (TC18D only).



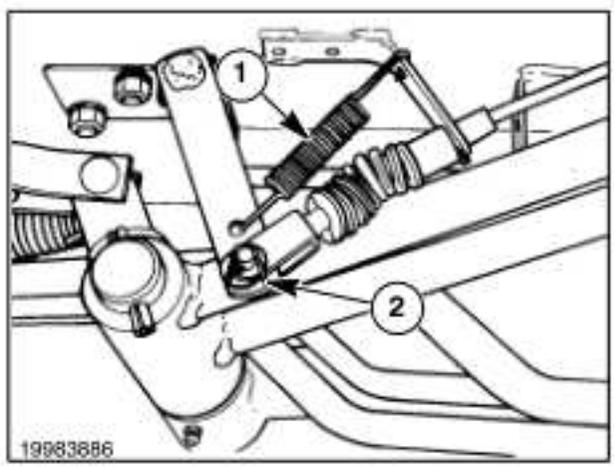
23

23. Disconnect the electrical connector, 1, from the tractor rear main harness.



24

24. If equipped, remove the foot throttle linkage return spring, 1, and remove the cotter pin, 2, and disconnect the foot throttle linkage from underneath the right side step.



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