NEW HOLLAND T3840F

SERVICE MANUAL

TT3840
TT3880F
TT4030
Tractors



73403878

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Gearbox - General specification

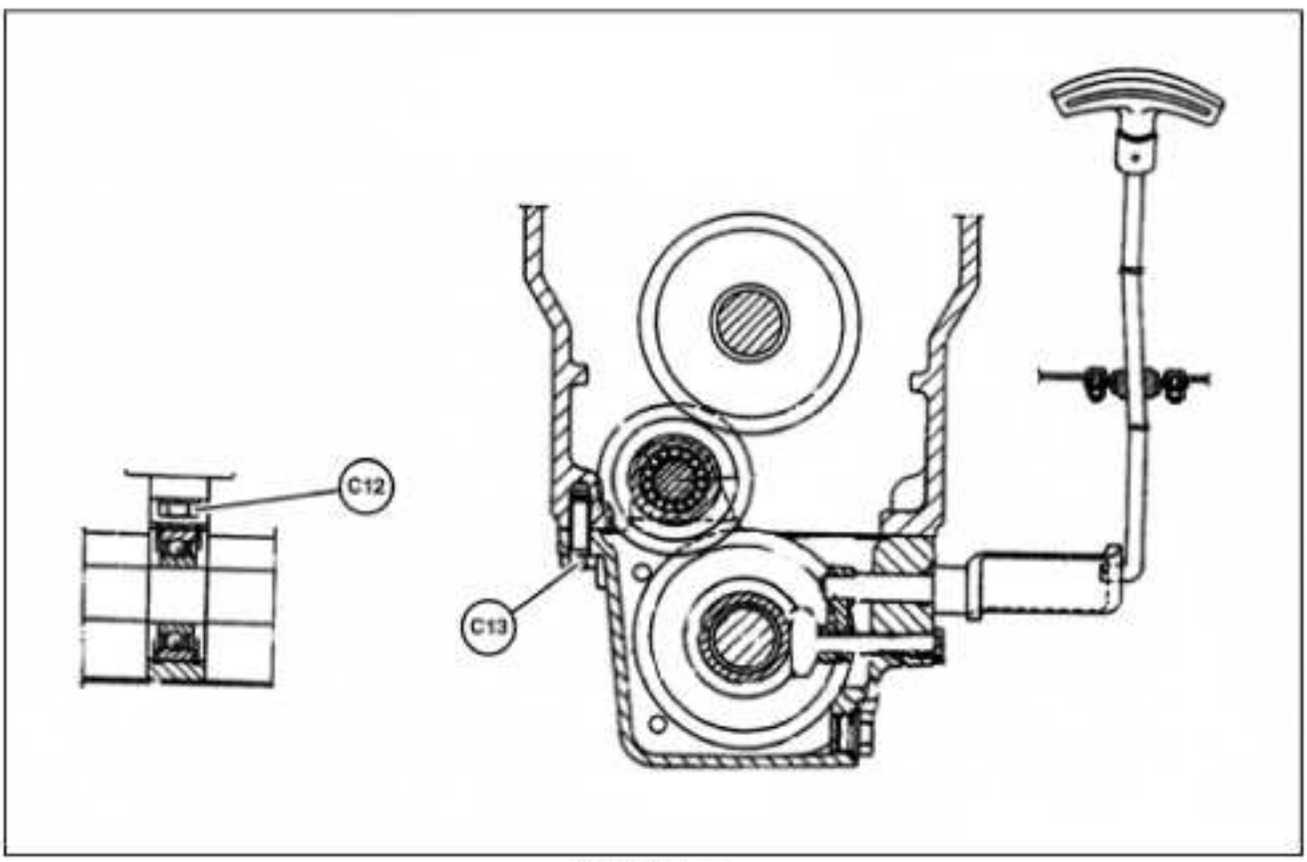
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Main Specifications

Component	TT3840	TT3840F	TT3880F	TT4030
Reduction ratio	34/24x24/34 = 1 to 1			
Relay lever pad width	**7.978 - 8.000 mm (0.3141 - 0.3150 in)**			
Pad seat width in driven gear	**8.280 - 8.370 mm (0.3260 - 0.3295 in)**			
Pad clearance in seat	**0.280 - 0.460 mm (0.0110 - 0.0181 in)**			
Relay lever pivot diameter	**15.973 - 16.000 mm (0.6289 - 0.6299 in)**			
Pivot housing internal diameter in casing	**16.016 - 16.059 mm (0.6306 - 0.6322 in)**			
Pivot clearance in housing	**0.016 - 0.086 mm (0.0006 - 0.0034 in)**			
Relay lever detent spring length				
Free	**130 mm (5.1181 in)**			
Less than **178.2 - 197.8 N (40 - 44 lb)**	**142.5 mm (5.6102 in)**			

Gearbox - Torque

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Part to be torqued	Turnbuckle	Torque setting
Transmission shaft central support retaining bolt **(C12)**	M12 x 1.5	**98 N·m (867.37 lb in)**
Drive gear housing retaining bolt **(C13)**	M12 x 1.25	**98 N·m (867.37 lb in)**

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Problem	Possible Cause	Correction
	Contaminated Oil	Use the correct lubrication and replace it at recommended intervals.
Uneven tire wear.	Incorrect installation / defective axle	Correct installation or repair or replace the differential in case it does not survive any one of the test phases.
	Overloading / incorrect weight distribution	Remove excessive weight and redistribute load. Follow the vehicle-related instructions.
	Different rotation radius of the tires	If one tire has a smaller radius, it will cause partial wheel slipping whenever force is applied. The other tire with bigger radius will have to support all the work. Replace the tire or adjust the pressure so that both tires have the same radius.
	Broken axle shaft	It is not advisable to operate the vehicle with a broken axle shaft. The tractor (engine off and tractor unloaded) may only be moved a few meters.
	Bent axle shaft	Replace axle shaft.
	Blocked differential	Differential is not working properly or control device is broken/blocked. Verify assembly and all components. Tractors with wide steering angle may move jerkily and have difficulty steering, or tires may be worn when taking sharp bends. Reduce the steering angle to the minimum and slow down when the vehicle starts moving jerkily.
	Incorrect wheel adjustment	Verify group integrity and wheel side bearings. Adjusting according.
Pinion or ring gear teeth or worn	Insufficient lubrication	Replace bevel gear set. Carefully follow the recommended operations for the adjustment of bevel gear set clearance. Use correct lubricants, fill up to the right levels and replace according to the recommended program.
	Contaminated Oil	Replace bevel gear set. Carefully follow the recommended operations for the adjustment of bevel gear set clearance. Use correct lubricants, fill up to the right levels and replace according to the recommended program.
	Incorrect lubrication or depleted additives	Replace bevel gear set. Carefully follow the recommended operations for the adjustment of bevel gear set clearance. Use correct lubricants, fill up to the right levels and replace according to the recommended program.
	Worn out pinion bearings that cause an incorrect pinion axle backlash and wrong contact between pinion and ring.	Replace bevel gear set. Carefully follow the recommended operations for the adjustment of bevel gear set clearance. Use correct lubricants, fill up to the right levels and replace according to the recommended program.

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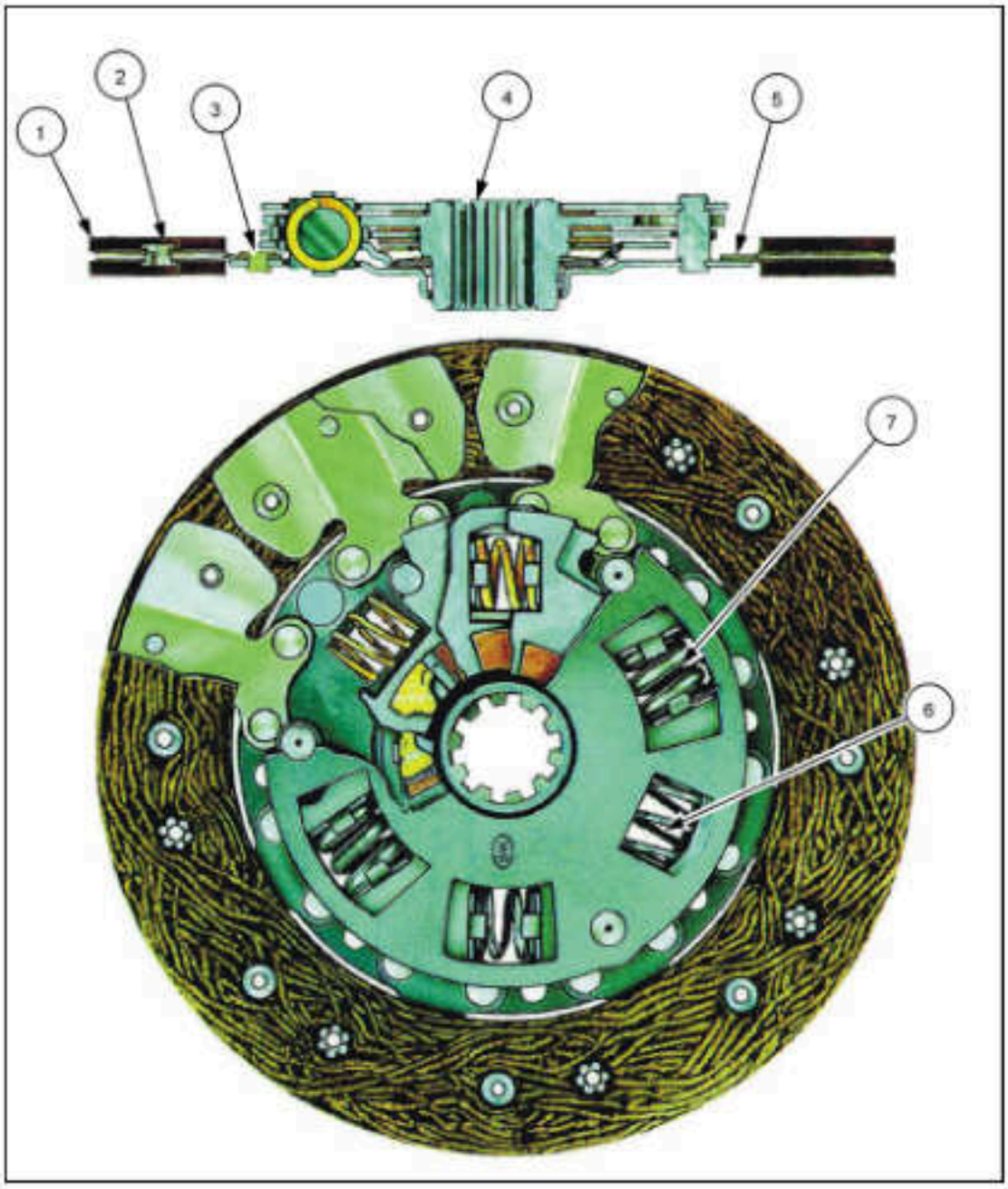
Circuit table - Transmission / Fender / Position lights

Name	Circuit	Col	Wire gauge
Start-up safety	1	R	2.50 mm²
Brake light switch	1A	U	1.00 mm²
Rear right-hand fender light	3	U	1.00 mm²
Parking brake switch	4	G	1.00 mm²
Start-up safety	5	R	2.50 mm²
LR rear fender light	6	Y	1.00 mm²
Main w/h	7	B	1.00 mm²
Rear right-hand fender light	7A	B	1.00 mm²
Rear left-hand fender light	7D	B	1.00 mm²
Rear right-hand fender light	8	Y	1.00 mm²
Rear left-hand fender light	9	R	1.00 mm²
Brake light switch	9A	R	1.00 mm²
Rear right-hand fender light	9B	R	1.00 mm²
Main w/h	10	U	1.00 mm²
Rear left-hand fender light	10A	U	1.00 mm²
Rear right-hand fender light	10B	U	1.00 mm²
Fender light	50	G	1.00 mm²
Rear fender light	50A	G	1.00 mm²
Front fender light	50B	G	1.00 mm²
Rear fender ground	57	B	1.00 mm²
Rear fender light	57B	G	1.00 mm²
Rear service light	57C	B	1.00 mm²
Front fender light	57D	G	1.00 mm²
Brake Light	810	G	1.00 mm²
Rear service light	997	G	1.00 mm²
Fender light	1014	G	1.00 mm²
Rear fender light	1014A	R	1.00 mm²
Front fender light	1014C	R	1.00 mm²

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Clutch - Sectional view Clutch plate

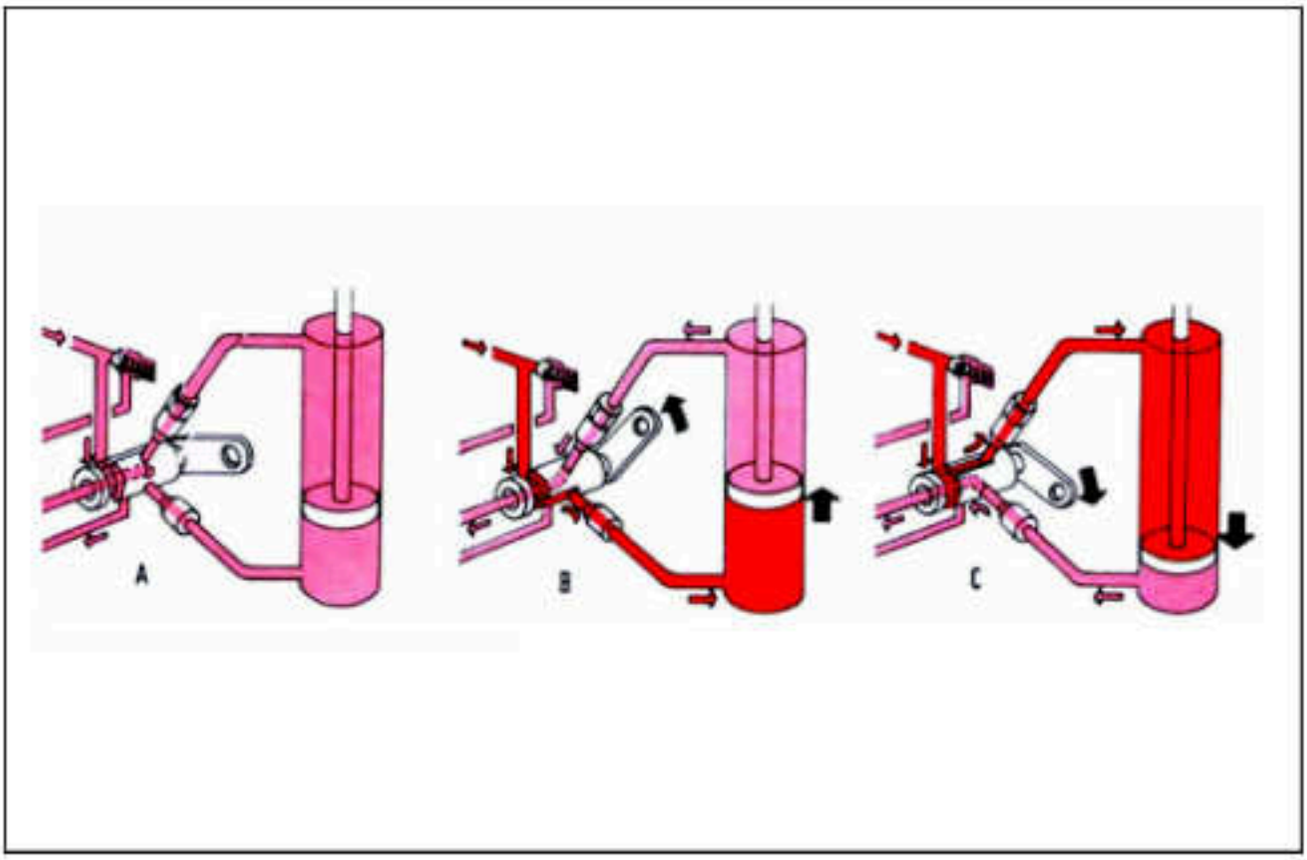
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1. Clutch facing
2. Facing rivet
3. Segment rivet
4. Hub
5. Segment
6. Idle damper spring
7. Main damper spring

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Double acting cylinder control

A - Raise

Pulling the lever forward will extend the cylinder and raise the implement.

B - Neutral

When released, the spring automatically returns the lever to the neutral position, disabling the connected cylinder.

C – Lower

Pushing the lever backward will retreat the cylinder and lower the implement.

NOTE: *Shuffling the cylinder connection to the auxiliary cylinder will reverse the lever function. i.e. forward movement will lower the implement; backward movement will raise the implement.*

NOTE: *The auxiliary cylinder uses the same hydraulic fluid as the hydraulic lift, but is operated independently with the hand lever* ***(c)****. It is not possible, however, to operate the auxiliary cylinder and the hydraulic lift unit simultaneously.*

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