

Leyland Heavy Weight Tractor - Main Torque Settings

Engine	kgf m	lbf ft
Leyland 6/98 Series		
Cylinder head nuts (Hot & Cold)	13,8	100
Big end bolts	8.28	60
Main bearing bolts	16.6	120
Flywheel bolts	13.8	100
Rocker shaft brackets (3/8 in)	4.14	30
(5/16 in)	2.07	15
Timing cover bolts	4.14 to 4.83	30 to 35
Crankshaft pulley nut	34.5	250
Injector bolts	1.66	12
Injector nozzle nuts	8.28	60
Rear mounts		
Early bolts	6.9	50
Later studs	16.6	120
Later nuts	9.7	70
Clutch to flywheel	4	30
Gearbox 5 x 2 & Synchro		
Gearbox lid	3.73	27
Layshaft nut (Non Synchro) with tool 18G1021A	17.94	130
Mainshaft nut	25	180
Manshaft bearing rings	16.6	120
Transfer housing bolts	3.7	27
Transfer housing screws	2.1	15
Differential end caps	7.45	54
Crown wheel to carrier	8.28	60
PTO		
Output shaft	21	150
Back plate		
Upper four	9.7	70
Lower three	3.7	27
Front cover	9.7	70
Cab		
Cab to rear axle bolts	11	80

	kgf m	lbf ft
Wheel nuts		
Front wheels (2wd)	11.04	80
Rear wheels & 4WD Front wheels	34.5	250
Rear axle		
Half axle to gearbox	16.56	120
Outer oil seal housing	2.07	15
Axle shaft retaining bolts, with Loctite grade 'C'	15.87	115
Inner disc brake housing	12.42	90
Differential carrier bolts	7.5	54
Hydraulics		
Hydraulic cylinder to case	19.32	140
Top cover to case	13.8	100
Valve body to cylinder	3.73	27
Rear PTO housing to case	13.25	96
Hydraulic unit to gearbox	5.8	42
Hydraulic unit to gearbox (top three)	17.94	130
Lift arms to cross shaft	15.56	120
Front pump drive adaptor	2.76	20
Front Axle		
Pivot pin bolt	4.14	30
Pivot pin end plate	2.48	18
Steering arm clamp bolt	15.56	120
Extended beam bolt	34.5	250
Main frame & Drawbar		
Side frame to tie plate	34.5	250
Weight frame to side frame	34.5	250
Tie plate to gearbox casing	13.25	96
Side frame to bolster	34.5	250
Side frame to transmission bolts	23.5	170
Drawbar to gearbox securing bolts	35	250
Steering		
Centre post socket screws	23.46	170
Track rod nuts	11.04	80

General Torque Values**kgf m****lbf ft**

These figures are based on self-finish nut and bolt combination of 'B' grade strength

UNF

1/4 in	0.83	6
5/16 in	2.07	15
3/8 in	3.73	27
7/16 in	5.8	42
1/2 in	9.66	70
9/16 in	13.25	96
5/8 in	17.25	125
3/4 in	34.5	250
7/8 in	51.06	370
1 in	75.9	550

Metric

These figures are based on self-finish nut and bolt combination of '8.8' grade strength

M6	1.24	9
M8	2.48	18
M10	4	29
M12	8	58
M14	13	94
M16	18.9	137
M20	37	268