

TIGHTENING TORQUES

	Nm	lbf. ft
Front cover to gear case	26	19
Layshaft and reverse shaft lockplate to gear case	26	19
Rear cover to gear case	26	19
Speedometer gear case to rear cover	26	19
Speedometer pinion to speedometer gear case	9.5	7
Coupling flange to mainshaft	81	60
Selector shaft lockplate	9.5	7
Top cover to gear case	26	19
Guide and locking lever to top cover	49	36
Cap plate to top cover	4	3
P.T.O. cover to gear case	23	17
Drain plug	27	20
Filler/oil level plug	13.5	10
Breather cap to top cover	4	3
Reverse light switch to top cover	13.5	10
Knob-gear lever locknut	11	8
Gearbox to clutch housing	68	50

DATA

Type	Four forward speeds — one reverse	
Description	Synchromesh engagement on top, third and second.	
Code	FN2 = Wide ratio FN3 = Close ratio	
Ratios	FN2	FN3
First	5.67:1	4.15:1
Second	3.03:1	2.39:1
Third	1.7:1	1.44:1
Fourth	Direct	Direct
Reverse	5.35:1	3.91:1
Lubricant capacity	2.5 litre (4.5 pints) increased by approx. .56 litre (1 pint) when a P.T.O. is fitted.	

MANUFACTURING DATA

	Millimetres	Inches
Casing		
Bore for primary shaft	89.997/90.010	3.5431/3.5436
Bore for mainshaft rear cover	155.575/155.636	6.1249/6.1273
Bore for mainshaft rear bearing (in rear cover)	79.985/80.005	3.149/3.1497
Bore for reverse gear shaft	28.524/28.555	1.1229/1.1242
Layshaft rear bush bore	33.015/33.050	1.2998/1.3011
Layshaft front bore	25.832/25.862	1.017/1.018
Bore for selector shafts	15.85/15.89	0.624/0.6255
Mainshaft		
Diameter of spigot	26.513/26.525	1.0438/1.0442
Diameter of journals for second and third gears	44.387/44.412	1.7475/1.7485
Diameter of journal for first gear	36.509/36.526	1.4373/1.4380
Diameter of journal for rear bearing	35.001/35.014	1.3779/1.3785
Thickness of integral collar	5.08/5.16	0.1999/0.2031
Primary shaft		
Diameter of spigot	19.987/20.00	0.7868/0.7874
Diameter of spigot 4.236 Engine	19.972/19.985	0.7862/0.7868
Diameter of needle bearing housing	37.635/37.656	1.4816/1.4825
Diameter of journal for front bearing	40.005/40.018	1.5749/1.5755
Layshaft		
Diameter of shaft	25.845/25.857	1.0175/1.0179
Rear bush-internal diameter	25.857/25.887	1.0179/1.0191
Gear cluster needle bearing housing	35.425/35.438	1.3946/1.3951
Reverse gear		
Diameter of shaft	25.38/25.4	0.9992/1.000
Second and third speed gears		
Diameter of bushes (fitted)	44.45/44.475	1.749/1.751
First speed gear		
Diameter of bush		
Inside	36.500/36.525	1.437/1.4379
Outside	49.977/49.990	1.9675/1.9681
Selector mechanism		
Diameter of selector shafts	15.837/15.856	0.6235/0.6242
Bore in selector forks for shafts	15.880/15.939	0.6251/0.6275
Selector shaft ball locking springs		
Free length	20.07	0.79
To exert 4.53kg (10lb) at 16.51mm (0.65in)		
Reverse stop plunger — overall length	62.23	2.45
Reverse stop plunger spring		
Free length	31.65	1.246
To exert 2.27kg (5lb) at 29.46mm (1.16in)		
Reverse stop locking ball spring		
Free length	36.83	1.45
To exert 12kg (26.56lb) at 31.42mm (1.123in)		
Top cover		
Cap spring		
Free length	21.08	0.83
To exert 15.88kg (35lb) at 13.48mm (0.53in)		