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workshop manual for T6.3543 diesel engines

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Peterborough England 1982

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This publication is written for world wide use. In territories where legal limits govern engine smoke emission, noise, safety factors, etc., then all instructions, data and dimensions given must be applied in such a way that, after servicing, (preventative maintenance) or repairing an engine, it does not contravene the local regulations when in use.

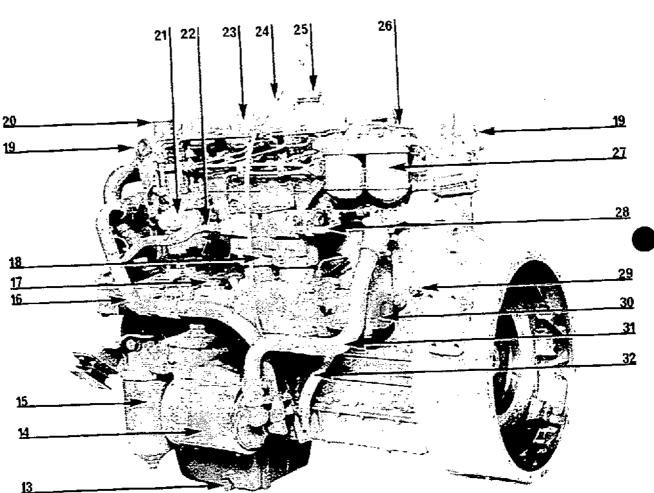
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Page I

ENGINE VIEWS A2

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A2

VIEW OF LEFT HAND SIDE OF ENGINE

- 13. Sump Drain Plug
- 14. Lub. Oil Cooler
- 15. Lub. Oil Filter
- 16. Water Inlet Pipe to Oil Cooler
- 17. Compressor Coupling
- 18. Compressor
- 19. Lifting Hook
- 20. Water Outlet Connection
- 21. Fuel Injection Pump
- 22. Water Inlet Pipe to Compressor

- 23. Cylinder Head Top Cover
- 24. Dipstick
- 25. Lubricating Oil Filler
- 26. Atomiser
- 27. Twin Fuel Oil Filters
- 28. Water Outlet Pipe from Compressor
- 29. Cylinder Block Drain Tap
- 30. Power Steering Pump
- 31. Water Outlet Pipe from Oil Cooler
- 32. Breather Pipe

SECTION B General Information

GENERAL INFORMATION B2

Engine Data

Туре	
Bore	
Stroke	
Compression Ratio	
Cubic Capacity	
Firing Order	
Lubricating Oil Pressure	

Valve Tip Clearance
(prior to Engine No. 3543U10342TL)
Valve Tip Clearance
(commencing Engine No. 3543U10342TL)Inlet
Exhaust

Six cylinder, four stroke, direct injection 3.877/3.878 in (98,48/98,50 mm) 5.0 in (127 mm) 16:1 353.8 in³ (5.8 litre) 1, 5, 3, 6, 2, 4 30 lbf/in² (2.1 kgf/cm²) -207 kN/m² minimum, at maximum engine speed and normal operating temperature

241

0.012 in (0,30 mm) COLD

0.008 in (0,20 mm) COLD 0.018 in (0,46 mm) COLD

Rating Details

Standard Vehicle with Air Charge Cooler
Gross Rated Output
Maximum Torque
Combine Harvester with Air Charge Cooler
Gross Rated Output
Maximum Torque
The above rations are "new engine" maximum and one

155 b.h.p. (116 kW) at 2600 rev/min. 376 lbf ft (520 kgf m) at 1600 rev/min.

153b.h.p. (114kW) at 2500 rev/min. 376 lbf ft (520 kgf m) at 1600 rev/min.

The above ratings are "new engine" maximum and can vary according to application. For further details apply to the equipment manufacturer or the Service Department of Perkins Engines, Peterborough, England.

Recommended Torque Tensions

The following figures will apply with the components lightly oiled.

Cylinder Head Nuts ½ 95 13,1 129 Cylinder Head Stscrews ½ 95 13,1 129 Cylinder Head Nuts with preformed integral washers ½ 115 16,9 156 Cold Torque ½ 115 16,9 14,5 142 Cylinder Head Stscrews with preformed integral washers ½ 115 14,5 142 Cold Torque ½ 105 14,5 142 145 142 Connecting Rod Nuts (current) ½ 70 9,7 95 20,7 203 Main Bearing Setscrews 54 180 24,9 244 102 104 102 Main Bearing Setscrews prior to Engine Number 3543U1384T ½ 70 9,7 95 20,7 203 Idler Gear Hub Nuts 102 24,9 244 180 24,9 244 Main Bearing Setscrews prior to Engine Number 3543U435T 54 150 20,7 203 Idler Gear Hub Nuts Setscrews ½ 19 2,6 26 Sump to Cylinder Block, Setscrews ½ 50	Component	Screw Size UNF	lbfft	kgfm	Nm
Cylinder Head Setscrews ½ 95 13,1 129 Cylinder Head Nuts with preformed integral washers ½ 115 16,9 156 Hot Torque 105 14,5 142 Cylinder Head Setscrews with preformed integral washers 105 14,5 142 Cylinder Head Setscrews with preformed integral washers 105 14,5 142 Cold Torque 105 14,5 142 Connecting Rod Nuts prior to Engine Number 3543U1384T ½ 70 9,7 95 Connecting Rod Nuts current) ½ 75 10.4 102 Main Bearing Setscrews prior to Engine Number 3543U435T ½ 150 24,9 244 Main Bearing Setscrews (where fitted) 5½ 150 20,7 203 Idler Gear Hub Nuts 3/4 36 5,0 49 26 <	Cylinder Head Nuts	1/2	95	13,1	129
Cold Torque ½ 115 16,9 156 Hot Torque 105 14,5 142 Cylinder Head Setscrews with preformed Integral washers 105 14,5 142 Cold Torque 105 14,5 142 Hot Torque 105 14,5 142 Connecting Rod Nuts prior to Engine Number 3543U1384T ½ 105 14,5 142 Main Bearing Setscrews 5% 180 24,9 244 Main Bearing Setscrews prior to Engine Number 3543U435T 5% 150 20,7 203 Idler Gear Hub Nuts 5% 150 20,7 203 Idler Gear Hub Nuts 5% 19 2,6 26 Sump to Cylinder Block, Setscrews 5% 15 2,1 20 Flywheel Securing Setscrews 1/2 50 6,9 68 Crankshaft Dulley Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 7/6 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews <td>Cylinder Head Setscrews</td> <td>1/2</td> <td>95</td> <td>13,1</td> <td>129</td>	Cylinder Head Setscrews	1/2	95	13,1	129
Hot Torque 105 14,5 142 Cylinder Head Setscrews with preformed integral washers 105 11,5 15,9 156 Cold Torque 105 14,5 142 105 14,5 142 Connecting Rod Nuts prior to Engine Number 3543U1384T 1/2 70 9,7 95 Connecting Rod Nuts (current) 1/2 75 10,4 102 Main Bearing Setscrews 1/2 75 10,4 102 Main Bearing Setscrews prior to Engine Number 3543U435T 5/8 150 20,7 203 Idler Gear Hub Nuts 3/4 36 5,0 49 Crankshaft Damper Setscrews (where fitted) 5/16 19 2,6 26 Sump to Cylinder Block, Setscrews 1/2 50 6,9 68 Crankshaft Gear Retaining Setscrews 1/4 80 11,1 108 Carakshaft Gear Retaining Setscrews 1/4 80 11,1 108 Carakshaft Gear Retaining Setscrews 1/4 80 11,1 108 Carakshaft Pulley Setscrews 1/4 80 11,1 108	Cylinder Head Nuts with preformed integral washers				
Hot Torque 105 14,5 142 Cylinder Head Setscrews with preformed integral washers 105 11,5 15,9 156 Cold Torque 105 14,5 142 105 14,5 142 Connecting Rod Nuts prior to Engine Number 3543U1384T 1/2 70 9,7 95 Connecting Rod Nuts (current) 1/2 75 10,4 102 Main Bearing Setscrews 1/2 75 10,4 102 Main Bearing Setscrews prior to Engine Number 3543U435T 5/8 150 20,7 203 Idler Gear Hub Nuts 3/4 36 5,0 49 Crankshaft Damper Setscrews (where fitted) 5/16 19 2,6 26 Sump to Cylinder Block, Setscrews 1/2 50 6,9 68 Crankshaft Gear Retaining Setscrews 1/4 80 11,1 108 Carakshaft Gear Retaining Setscrews 1/4 80 11,1 108 Carakshaft Gear Retaining Setscrews 1/4 80 11,1 108 Carakshaft Pulley Setscrews 1/4 80 11,1 108	Cold Torque	1/2	115	15,9	156
Cold Torque ½ 115 15,9 156 Hot Torque 105 14,5 142 Connecting Rod Nuts prior to Engine Number 3543U1384T ½ 70 9,7 95 Connecting Rod Nuts (current) ½ 75 10,4 102 Main Bearing Setscrews 54 180 24,9 244 Main Bearing Setscrews prior to Engine Number 3543U435T 54 150 20,7 203 Idler Gear Hub Nuts 54 150 2,6 26 Sump to Cylinder Block, Setscrews 54 150 6,9 68 Canshaft Gear Retaining Setscrew 1/2 50 6,9 68 Canshaft Gear Retaining Setscrews 746 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews 746 30 4,4 43	Hot Torque		105	14,5	142
Hot Torque 105 14,5 142 Connecting Rod Nuts prior to Engine Number 3543U1384T 1/2 70 9,7 95 Connecting Rod Nuts (current) 1/2 75 10,4 102 Main Bearing Setscrews 5/4 180 24,9 244 Main Bearing Setscrews prior to Engine Number 3543U435T 5/4 150 20,7 203 Idler Gear Hub Nuts 3/4 36 5,0 49 Crankshaft Damper Setscrews (where fitted) 5/16 19 2,6 26 Sump to Cylinder Block, Setscrews 5/16 19 2,6 26 Sump to Cylinder Block, Setscrews 5/16 15 2,1 20 Flywheel Securing Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/4 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews 1/1 108 108 108 108 Lub. Oil Filter to Oil Cooler, Setscrews 1/16 50 6,9 68 22 3,0 <t< td=""><td>Cylinder Head Setscrews with preformed integral washers</td><td></td><td></td><td></td><td></td></t<>	Cylinder Head Setscrews with preformed integral washers				
Connecting Rod Nuts prior to Engine Number 3543U1384T 1/2 70 9,7 95 Connecting Rod Nuts (current) 1/2 70 9,7 95 Main Bearing Setscrews 1/2 75 10,4 102 Main Bearing Setscrews prior to Engine Number 3543U435T 5/6 180 24,9 244 Main Bearing Setscrews prior to Engine Number 3543U435T 5/6 150 20,7 203 Idler Gear Hub Nuts 3/4 36 5,0 49 Crankshaft Damper Setscrews (where fitted) 5/16 19 2,6 26 Sump to Cylinder Block, Setscrews 5/16 15 2,1 20 Flywheel Securing Setscrews 1/2 80 11,1 108 Canshaft Gear Retaining Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/2 50 6,9 68 Cub. Oil Jet Banjo Bolt 3/6 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews 7/16 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews 5/16 12 1,7 16 <td>Cold Torque</td> <td>1/2</td> <td>115</td> <td>15,9</td> <td>156</td>	Cold Torque	1/2	115	15,9	156
Connecting Rod Nuts (current) 1/2 75 10,4 102 Main Bearing Setscrews 5/6 180 24,9 244 Main Bearing Setscrews 5/6 150 20,7 203 Idler Gear Hub Nuts 3/6 5,0 49 Crankshaft Damper Setscrews (where fitted) 5/16 19 2,6 26 Sump to Cylinder Block, Setscrews 5/16 19 2,6 26 Sump to Cylinder Block, Setscrews 5/16 19 2,6 26 Sump to Cylinder Block, Setscrews 5/16 19 2,6 26 Camshaft Gear Retaining Setscrew 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/2 50 6,9 68 Piston Cooling Jet Banjo Bolt 3/4 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews 7/16 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews 7/16 32 4,4 43 Atomiser Securing Nuts 5/16 12 1,7 16 Aux. Drive Shaft Gear to Shaft, Screws 5/16	Hot Torque		105	14,5	142
Main Bearing Setscrews % 180 24,9 244 Main Bearing Setscrews prior to Engine Number 3543U435T % 150 20,7 203 Idler Gear Hub Nuts % 36 5,0 49 Crankshaft Damper Setscrews (where fitted) % 36 5,0 49 Crankshaft Damper Setscrews (where fitted) % 15 2,1 20 Flywheel Securing Setscrews % 15 2,1 20 Flywheel Securing Setscrews % 16 50 6,9 68 Crankshaft Pulley Setscrews % 12 50 6,9 68 Crankshaft Pulley Setscrews 7/16 50 6,9 68 Crankshaft Pulley Setscrews 7/16 50 6,9 68 Coll Cooler to Cylinder Block, Setscrews 7/16 50 6,9 68 Cub Oll Filter to Oil Cooler, Setscrews 7/16 50 6,9 68 Atomiser Securing Nuts % 12 1,7 16 Aux. Drive Shaft Gear to Shaft, Screws %/16 22 3,0 30 Altern	Connecting Rod Nuts prior to Engine Number 3543U1384T	1/2	70	9,7	95
Main Bearing Setscrews % 180 24,9 244 Main Bearing Setscrews prior to Engine Number 3543U435T % 150 20,7 203 Idler Gear Hub Nuts % 36 5,0 49 Crankshaft Damper Setscrews (where fitted) % 36 5,0 49 Crankshaft Damper Setscrews (where fitted) % 15 2,1 20 Flywheel Securing Setscrews % 15 2,1 20 Flywheel Securing Setscrews % 16 50 6,9 68 Crankshaft Pulley Setscrews % 12 50 6,9 68 Crankshaft Pulley Setscrews 7/16 50 6,9 68 Crankshaft Pulley Setscrews 7/16 50 6,9 68 Coll Cooler to Cylinder Block, Setscrews 7/16 50 6,9 68 Cub Oll Filter to Oil Cooler, Setscrews 7/16 50 6,9 68 Atomiser Securing Nuts % 12 1,7 16 Aux. Drive Shaft Gear to Shaft, Screws %/16 22 3,0 30 Altern	Connecting Rod Nuts (current)	1/2	75	10.4	102
Idler Gear Hub Nuts 3/a 36 5,0 49 Crankshaft Damper Setscrews (where fitted) 5/16 19 2,6 26 Sump to Cylinder Block, Setscrews 5/16 15 2,1 20 Flywheel Securing Setscrews 1/2 50 6,9 68 Camshaft Gear Retaining Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/2 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews 1/4 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews 1/4 43 40 43 Atomiser Securing Nuts 5/16 12 1,7 16 Aux. Drive Shaft Gear to Shaft, Screws 5/16 20 2,7 27 Induction Manifold Setscrews (re-torque after 10 minutes </td <td>Main Bearing Setscrews</td> <td>5∕∉</td> <td>180</td> <td>24.9</td> <td>244</td>	Main Bearing Setscrews	5∕∉	180	24.9	244
Crankshaft Damper Setscrews (where fitted) \$\frac{1}{16}\$ 19 2,6 26 Sump to Cylinder Block, Setscrews \$\frac{1}{6}\$ 15 2,1 20 Flywheel Securing Setscrews 1/2 80 11,1 108 Camshaft Gear Retaining Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/16 65 9,0 88 Piston Cooling Jet Banjo Bolt 3/4 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews 1/16 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews 1/16 32 4,4 43 Atomiser Securing Nuts 5/16 12 1,7 16 Aux. Drive Shaft Gear to Shaft, Screws 5/16 20 2,7 27 Induction Manifold Setscrews (re-torque after 10 minutes 5/16 20 2,7 27 see Page E.3) 3/4 14 41 41 41 41 High Pressure Fuel Pipe Nuts 3/2 3,3 32 33	Main Bearing Setscrews prior to Engine Number 3543U435T	5/8	150	20,7	203
Crankshaft Damper Setscrews (where fitted) \$\frac{1}{16}\$ 19 2,6 26 Sump to Cylinder Block, Setscrews \$\frac{1}{6}\$ 15 2,1 20 Flywheel Securing Setscrews 1/2 80 11,1 108 Camshaft Gear Retaining Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/16 65 9,0 88 Piston Cooling Jet Banjo Bolt 3/4 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews 1/16 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews 1/16 32 4,4 43 Atomiser Securing Nuts 5/16 12 1,7 16 Aux. Drive Shaft Gear to Shaft, Screws 5/16 20 2,7 27 Induction Manifold Setscrews (re-torque after 10 minutes 5/16 20 2,7 27 see Page E.3) 3/4 14 41 41 41 41 High Pressure Fuel Pipe Nuts 3/2 3,3 32 33	Idler Gear Hub Nuts	3⁄8	36	5,0	49
Sump to Cylinder Block, Setscrews 5/16 15 2,1 20 Flywheel Securing Setscrews 1/2 80 11,1 108 Camshaft Gear Retaining Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/2 50 6,9 68 Crankshaft Pulley Setscrews 1/4 65 9,0 98 Piston Cooling Jet Banjo Bolt 3/4 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews 7/16 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews 7/16 32 4,4 43 Atomiser Securing Nuts 5/16 12 1,7 16 Aux, Drive Shaft Gear to Shaft, Screws 5/16 22 3,0 30 Alternator Pulley Retaining Nut 7/16 30 4,1 41 Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot) 5/16 20 2,7 27 Induction Manifold Setscrews (re-torque after 10 minutes 3/2 2,4 3,3 32 <	Crankshaft Damper Setscrews (where fitted)	% 16	19	2,6	26
Camshaft Gear Retaining Setscrew ½ 50 6,9 68 Crankshaft Pulley Setscrews ½ 50 6,9 68 Piston Cooling Jet Banjo Bolt ¾ 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews ½ 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews ½ 7/16 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews ½ ½ 7/16 32 4,4 43 Atomiser Securing Nuts ½ ½ 30 30 30 Aux. Drive Shaft Gear to Shaft, Screws ½ ½ 30 4,1 41 Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot) ½ ½ 3,3 32 Induction Manifold Setscrews (re-torque after 10 minutes ¾ 24 3,3 32 High Pressure Fuel Pipe Nuts ½ 12 1,2 20 2,1 20 Thermostart 10 1,4 14 14 14 14	Sump to Cylinder Block, Setscrews	\$ ∕ 16	15	2,1	20
Crankshaft Pulley Setscrews 7/16 65 9,0 88 Piston Cooling Jet Banjo Bolt 3/8 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews 7/16 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews 7/16 32 4,4 43 Atomiser Securing Nuts 5/16 12 1,7 16 Aux. Drive Shaft Gear to Shaft, Screws 5/16 22 3,0 30 Alternator Pulley Retaining Nut 7/16 30 4,1 41 Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot) 5/16 20 2.7 27 Induction Manifold Setscrews (re-torque after 10 minutes 3/26 24 3,3 32 High Pressure Fuel Pipe Nuts 3/2 1/2 x 1,5 mm 15 2,1 20 Thermostart 10 1,4 14	Flywheel Securing Setscrews	1/2	80	11,1	108
Piston Cooling Jet Banjo Bolt % 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews % 50 6,9 63 Lub. Oil Filter to Oil Cooler, Setscrews 7/16 32 4,4 43 Atomiser Securing Nuts 5/16 12 1,7 16 Aux. Drive Shaft Gear to Shaft, Screws 5/16 22 3,0 30 Alternator Pulley Retaining Nut 7/16 30 4,1 41 Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot) 5/16 20 2.7 27 Induction Manifold Setscrews (re-torque after 10 minutes 3/2 4 3,3 32 High Pressure Fuel Pipe Nuts 1/2 x 1,5 mm 15 2,1 20 Thermostart 10 1,4 14	Camshaft Gear Retaining Setscrew	1/2	50	6,9	68
Piston Cooling Jet Banjo Bolt % 20 2,7 27 Oil Cooler to Cylinder Block, Setscrews % 50 6,9 63 Lub. Oil Filter to Oil Cooler, Setscrews 7/16 32 4,4 43 Atomiser Securing Nuts 5/16 12 1,7 16 Aux. Drive Shaft Gear to Shaft, Screws 5/16 22 3,0 30 Alternator Pulley Retaining Nut 7/16 30 4,1 41 Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot) 5/16 20 2.7 27 Induction Manifold Setscrews (re-torque after 10 minutes 3/2 4 3,3 32 High Pressure Fuel Pipe Nuts 1/2 x 1,5 mm 15 2,1 20 Thermostart 10 1,4 14	Crankshaft Pulley Setscrews	7/16	65	9,0	88
Oil Cooler to Cylinder Block, Setscrews 7/16 50 6,9 68 Lub. Oil Filter to Oil Cooler, Setscrews 7/16 32 4,4 43 Atomiser Securing Nuts 5/16 12 1,7 16 Aux. Drive Shaft Gear to Shaft, Screws 5/16 22 3,0 30 Alternator Pulley Retaining Nut 7/16 30 4,1 41 Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot) 5/16 20 2.7 27 Induction Manifold Setscrews (re-torque after 10 minutes 3/2 3,3 32 High Pressure Fuel Pipe Nuts 3/2 12 1,4 14	Piston Cooling Jet Banjo Bolt	3∕6	20	2,7	27
Atomiser Securing Nuts5/16121,716Aux. Drive Shaft Gear to Shaft, Screws5/16223,030Alternator Pulley Retaining Nut7/16304,141Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot)5/16202,727Induction Manifold Setscrews (re-torque after 10 minutes3/23/23/332High Pressure Fuel Pipe Nuts121,5mm152,120Thermostart101,414	Oil Cooler to Cylinder Block, Setscrews	7/16	50	6,9	68
Aux. Drive Shaft Gear to Shaft, Screws\$\frac{5}{16}\$223,030Alternator Pulley Retaining Nut7\frac{16}{16}\$304,141Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot)\$\frac{5}{16}\$202.727Induction Manifold Setscrews (re-torque after 10 minutes\$\frac{3}{16}\$243,332High Pressure Fuel Pipe Nuts12 x 1,5mm152,120Thermostart101,414		7/16	32	4,4	43
Alternator Pulley Retaining Nut 7/16 30 4.1 41 Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot) 5/16 20 2.7 27 Induction Manifold Setscrews (re-torque after 10 minutes 3/2 24 3.3 32 High Pressure Fuel Pipe Nuts 12 x 1,5mm 15 2,1 20 Thermostart 10 1,4 14	Atomiser Securing Nuts	5⁄16	12	1,7	16
Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot)\$/16202.727Induction Manifold Setscrews (re-torque after 10 minutessee Page E.3)High Pressure Fuel Pipe Nuts12 x 1,5mm1014	Aux. Drive Shaft Gear to Shaft, Screws	5/16	22	3,0	30
Induction Manifold Setscrews (re-torque after 10 minutessee Page E.3)High Pressure Fuel Pipe Nuts12 x 1,5mm1014	Alternator Pulley Retaining Nut	7/16	30	4,1	41
see Page E.3) ¾ 24 3,3 32 High Pressure Fuel Pipe Nuts 12 x 1,5 mm 15 2,1 20 Thermostart 10 1,4 14	Fuel Oil Lift Pump to Cylinder Block (to be re-torqued when hot)	\$⁄16	20	2.7	27
High Pressure Fuel Pipe Nuts 12 x 1,5 mm 15 2,1 20 Thermostart 10 1,4 14					
High Pressure Fuel Pipe Nuts 12 x 1,5 mm 15 2,1 20 Thermostart 10 1,4 14	see Page E.3)	3∕8	24	3.3	32
Thermostart 10 1,4 14	High Pressure Fuel Pipe Nuts	12 x 1,5 mm	15	•	20
	Thermostart	-	10		14
			10	1,4	14

Engine Weights

Bare engine, alternator, fuel and lubricating oil filters, compressor and lubricating oil cooler, Approx. dry weight = 960 lbs (435 kg)

Bare engine, alternator, fuel and lubricating oil filters, compressor, lubricating oil cooler, flywheel, flywheel housing, air charge cooler, starter motor and fan.

Not including radiator and clutch = 1180 lbs (536 kg)

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