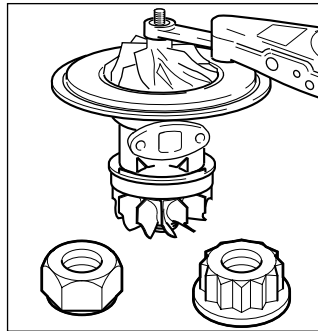
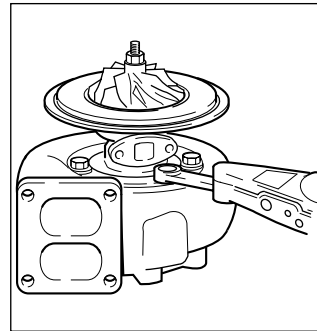
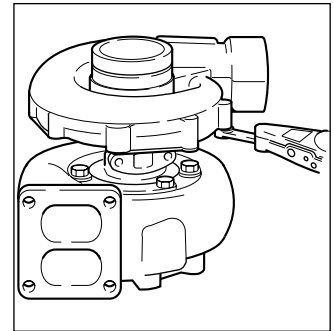


Pre-H Service Data Sheet 1 of 5

Locknut, Compressor
Wheel (Item 61)Bolt, Turbine Housing
(Item 57)Bolt, Compressor
Housing (Item 59)

Turbo Model

Nm (lb. in)

Nm (lb. in)

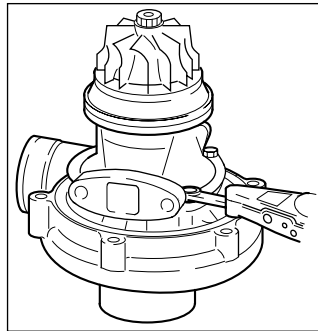
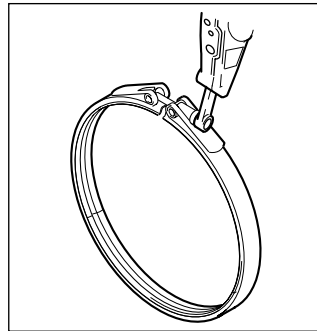
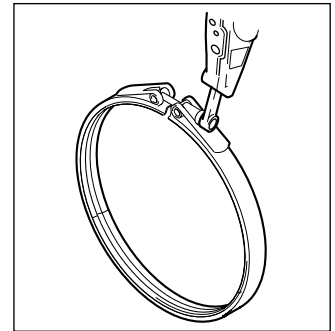
Nm (lb. in)

6 pt.
Hexagon12 pt.
Hexagon

Turbo Model	6 pt. Hexagon	12 pt. Hexagon	Nm (lb. in)	Nm (lb. in)
3 in/3A	20.3 (180)	N/A	16.3 (144)	10.9 (96)
3FD/3FE/3FJ/3LE	18.1 (160)	N/A	N/A	8.5 (75)
3LD	18.1 (160)	N/A	N/A	8.5 (75)
4 in/4B	40.7 (360)	N/A	16.3 (144)	10.9 (96)
4HD	40.7 (360)	N/A	16.3 (144)	8.5 (75)
4LE/4LF/4LG	40.7 (360)	N/A	N/A	8.5 (75)
4LEV/4LEK/4LFK	40.7 (360)	N/A	N/A	8.5 (75)
4LGK	40.7 (360)	N/A	20.3 (180) - see note 6	8.5 (75)
4LGZ	40.7 (360)	N/A	N/A	8.5 (75)
4MD	40.7 (360)	N/A	N/A	8.5 (75)
4MF	50.8 (450)	N/A	16.3 (144)	8.5 (75)
6 in	61.0 (540)	N/A	16.3 (144)	10.9 (96)
6D/6LD	81.3 (720)	N/A	16.3 (144)	10.9 (96)

Caution Always refer to **Service Notes** before using Holset Service Data.

Pre-H Service Data Sheet 2 of 5

Screw, Bearing
Housing (Item 56)Locknut, V-Band
Turbine (Item 28)Locknut, V-Band
Compressor (Item 29)

Turbo Model

Nm (lb. in)

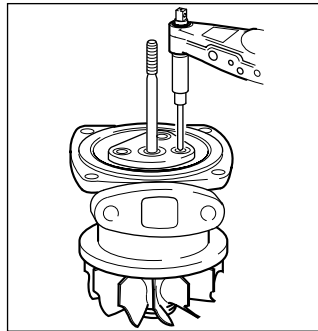
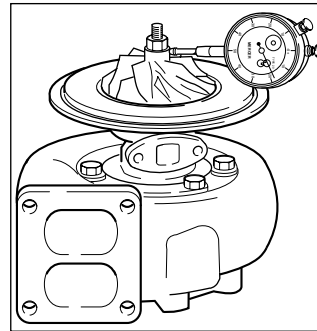
Nm (lb. in)

Nm (lb. in)

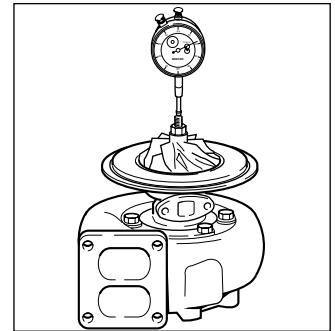
3 in/3A	16.3 (144)	N/A	N/A
3FD/3FE/3FJ/3LE	N/A	8.5 (75)	N/A
3LD	N/A	8.5 (75)	N/A
4 in/4B	27 (240)	N/A	N/A
4HD	N/A	N/A	8.5 (75)
4LE/4LF/4LG	N/A	8.5 (75)	N/A
4LEV/4LEK/4LFK	N/A	8.5 (75)	N/A
4LGK	N/A	8.5 (75)	N/A
4LGZ	N/A	8.5 (75)	N/A
4MD	N/A	8.5 (75)	8.5 (75)
4MF	N/A	N/A	N/A
6 in	N/A	N/A	N/A
6D/6LD	27 (240)	N/A	N/A

Caution Always refer to [Service Notes](#) before using Holset Service Data.

Pre-H Service Data Sheet 3 of 5

Screw, Thrust Bearing
(Item 58)Radial Movement
(TIR)

Axial Clearance



Turbo Model

Nm (lb. in)

mm (in)

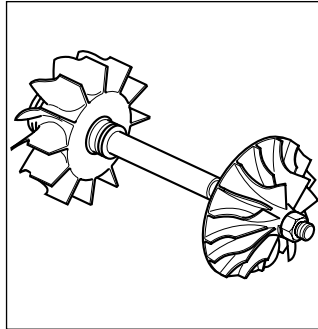
mm (in)

3 in/3A	N/A	0.254 - 0.381 (0.010 - 0.015)	0.102 - 0.178 (0.004 - 0.007)
3FD/3FE/3FJ/3LE	N/A	0.406 - 0.559 (0.016 - 0.022)	0.102 - 0.178 (0.004 - 0.007)
3LD	N/A	0.381 - 0.533 (0.015 - 0.021)	0.102 - 0.229 (0.004 - 0.009)
4 in/4B	N/A	0.305 - 0.457 (0.012 - 0.018)	0.102 - 0.178 (0.004 - 0.007)
4HD	6.8 (60)	0.381 - 0.584 (0.015 - 0.023)	0.102 - 0.178 (0.004 - 0.007)
4LE/4LF/4LG	N/A	0.356 - 0.533 (0.014 - 0.021)	0.076 - 0.178 (0.003 - 0.007)
4LEV/4LEK/4LFK	N/A	0.356 - 0.513 (0.014 - 0.020)	0.051 - 0.127 (0.002 - 0.005)
4LGK	N/A	0.381 - 0.559 (0.015 - 0.022)	0.051 - 0.152 (0.002 - 0.006)
4LGZ	N/A	0.203 - 0.635 (0.008 - 0.025)	0.051 - 0.152 (0.002 - 0.006)
4MD	6.8 (60)	0.406 - 0.584 (0.016 - 0.023)	0.102 - 0.178 (0.004 - 0.007)
4MF	N/A	0.356 - 0.483 (0.014 - 0.019)	0.076 - 0.178 (0.003 - 0.007)
6 in	N/A	0.406 - 0.584 (0.016 - 0.023)	0.102 - 0.178 (0.004 - 0.007)
6D/6LD	6.8 (60)	0.483 - 0.660 (0.019 - 0.026)	0.102 - 0.178 (0.004 - 0.007)

Caution Always refer to **Service Notes** before using Holset Service Data.

Pre-H Service Data Sheet 4 of 5

Rotor Balance



Turbo Model

g. mm (oz. in)

	Turbine End	Compressor End
3 in/3A	1.5 (0.002)	1.5 (0.002)
3FD/3FE/3FJ/3LE	2.9 (0.004)	3.6 (0.004)
3LD	2.9 (0.004)	3.6 (0.004)
4 in/4B	1.5 (0.002)	1.5 (0.002)
4HD	2.9 (0.004)	1.5 (0.002)
4LE/4LF/4LG	4.4 (0.006)	7.2 (0.010)
4LEV/4LEK/4LFK	4.4 (0.006)	7.2 (0.010)
4LGK	4.4 (0.006)	7.2 (0.010)
4LGZ	4.4 (0.006)	7.2 (0.010)
4MD	2.9 (0.004)	1.5 (0.002)
4MF	2.9 (0.004)	1.5 (0.002)
6 in	1.5 (0.002)	1.5 (0.002)
6D/6LD	2.9 (0.004)	2.9 (0.004)

Caution

Always refer to [Service Notes](#) before using Holset Service Data.

Pre-H Service Data Sheet 5 of 5

Service Data Sheet Notes

1. The list of turbo models represents the majority of current specifications. If your model does not appear in the Service Data Sheets please refer to your nearest Holset agent for guidance.
2. Service data is sourced from engineering specifications and drawings.
3. All permissible service allowances are included in this data set.
4. Holset quote nominal torque for turbocharger assembly. Apply torque using a calibrated torque wrench with +/-1 Nm (+/-10 lb.in) capability. Breakaway torque may vary up to 40% from nominal.
5. Some models have optional specifications (eg Turbine housing bolts or V-band arrangement). Both are shown for reference.
6. Some European OEM's and Holset Aftermarket torque tighten to 31.6 Nm (280 lb.in) under concession.
7. For latest Service Data Sheets and Bulletin Board information refer to the Holset website www.holset.co.uk.
8. Wastegate versions of H series turbochargers are pre-fixed with a "W". Refer to your nearest Holset agent for wastegate installation instructions.
9. All fasteners must be visually clean and be lubricated with light oil prior to torque tightening except where the service repair manual instructs to the contrary. Exceptions are:
HX20W/HX25/25/25W/27W Compressor Wheel Locknut (61)/ V-band Locknut (28) - apply molycote.
All other V-band Locknut (28) (29) and Wastegate Valve Body Screw (79) - fit dry.
All fasteners treated with a thread locking patch - fit dry and within 5 minutes of insertion.

Caution

Always refer to [Service Notes](#) before using Holset Service Data.