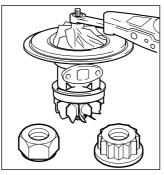
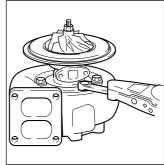
### H Service Data Sheet 1 of 7

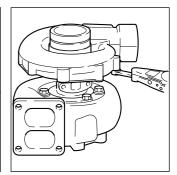
Locknut, Compressor Wheel (Item 61) Bolt, Turbine Housing (Item 57)

**Bolt, Compressor Housing (Item 59)** 





20.3 (180)



N/A

Turbo Model	Nm (lb	o. in)	Nm (lb. in)	Nm (lb. in)
	6 pt. Hexagon	12 pt. Hexagon		
H1A	6.8 (60)	N/A	20.3 (180) - see note 6	8.5 (75)
H1B	2.3 (20)+75 deg	N/A	20.3 (180) - see note 6	8.5 (75)
H1C (72 mm wheel)	18.1 (160)	15 (135)	20.3 (180) - see note 6	8.5 (75)
H1C (82 mm wheel)	18.1 (160)	15 (135)	20.3 (180) - see note 6	8.5 (75)
H1D (68 mm wheel)	18.1 (160)	15 (135)	20.3 (180) - see note 6	8.5 (75)
H2A (72 mm wheel)	18.1 (160)	15 (135)	20.3 (180) - see note 6	8.5 (75)
H2A (76 mm wheel)	18.1 (160)	15 (135)	20.3 (180) - see note 6	8.5 (75)
H1E (82 mm wheel)	18.1 (160)	15 (135)	20.3 (180) - see note 6	8.5 (75)
H2B	13.6 (120)	N/A	20.3 (180) - see note 6	8.5 (75)
H2C/D/E/S	18.1 (160)	N/A	20.3 (180) - see note 6	8.5 (75)
H3B	40.7 (360)	N/A	N/A	8.5 (75)
HC3/HC3B	40.7 (360)	N/A	N/A	8.5 (75)
HT3/HT3B/BHT3B/C/E	40.7 (360)	N/A	N/A	8.5 (75)
HT4/HT4B/HT4C	45.2 (400)	N/A	N/A	N/A
HC5A (127 mm wheel)	45.2 (400)	N/A	20.3 (180)	N/A
_				

N/A

HC5A (130 mm wheel)

45.2 (400)

H Service Data Sheets

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## H Service Data Sheet 2 of 7

Bolt, Cover Plate (item 67)	Bolt, Exhaust Adapter (item 67)	Screw, Diffuser (Item 56)
Nm (lb. in)	Nm (lb. in)	Nm (lb. in)

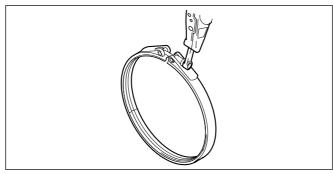
H1A	N/A	N/A	N/A
H1B	N/A	N/A	N/A
H1C (72 mm wheel)	N/A	25 (220)	8.5 (75)
H1C (82 mm wheel)	N/A	25 (220)	8.5 (75)
H1D (68 mm wheel)	N/A	N/A	8.5 (75)
H2A (72 mm wheel)	N/A	N/A	8.5 (75)
H2A (76 mm wheel)	N/A	N/A	8.5 (75)
H1E (82 mm wheel)	N/A	25 (220)	8.5 (75)
H2B	N/A	N/A	N/A
H2C/D/E/S	8.5 (75)	N/A	N/A
H3B	N/A	N/A	N/A
HC3/HC3B	N/A	N/A	N/A
HT3/HT3B/BHT3B/C/E	N/A	N/A	N/A
HT4/HT4B/HT4C	N/A	N/A	24.9 (220)
HC5A (127 mm wheel)	N/A	N/A	24.9 (220)
HC5A (130 mm wheel)	N/A	N/A	24.9 (220)

**Turbo Model** 

### H Service Data Sheet 3 of 7

Locknut, V-Band Turbine (Item 28)

Locknut, V-Band Compressor (Item 29)





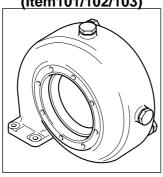
Turbo Model	Nm (I	b. in)	Nm (lb. in)
		Part no.	
		3539458	
H1A	N/A	N/A	N/A
H1B	N/A	N/A	N/A
H1C (72 mm wheel)	N/A	N/A	8.5 (75)
H1C (82 mm wheel)	N/A	N/A	8.5 (75)
H1D (68 mm wheel)	N/A	N/A	8.5 (75)
H2A (72 mm wheel)	N/A	N/A	8.5 (75)
H2A (76 mm wheel)	N/A	N/A	8.5 (75)
H1E (82 mm wheel)	N/A	N/A	8.5 (75)
H2B	N/A	N/A	8.5 (75)
H2C/D/E/S	N/A	N/A	8.5 (75)
H3B	8.5 (75) - see note 10	11.3 (100) - see note 10	N/A
HC3/HC3B	8.5 (75) - see note 10	11.3 (100) - see note 10	N/A
HT3/HT3B/BHT3B/C/E	8.5 (75) - see note 10	11.3 (100) - see note 10	N/A
HT4/HT4B/HT4C	8.5 (75)	N/A	8.5 (75)
HC5A (127 mm wheel)	N/A	N/A	8.5 (75)
HC5A (130 mm wheel)	N/A	N/A	8.5 (75)

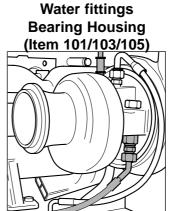
H Service Data Sheets

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#### H Service Data Sheet 4 of 7

Water fittings Turbine housing (Item101/102/103)





**Turbo Model** 

Nm (lb. in)

Nm (lb. in)

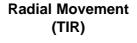
H1A	67.8 (600)	40 (354)	
H1B	67.8 (600)	40 (354)	
H1C (72 mm wheel)	67.8 (600)	40 (354)	
H1C (82 mm wheel)	67.8 (600)	40 (354)	
H1D (68 mm wheel)	N/A	N/A	
H2A (72 mm wheel)	N/A	N/A	
H2A (76 mm wheel)	N/A	N/A	
H1E (82 mm wheel)	67.8 (600)	40 (354)	
H2B	N/A	N/A	
H2C/D/E/S	67.8 (600)	67.8 (600)	
Н3В	N/A	N/A	
HC3/HC3B	N/A	N/A	
HT3/HT3B/BHT3B/C/E	N/A	N/A	
HT4/HT4B/HT4C	N/A	N/A	
HC5A (127 mm wheel)	N/A	N/A	
HC5A (130 mm wheel)	N/A	N/A	

H Service Data Sheets

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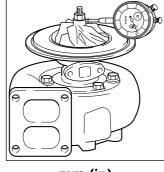
### H Service Data Sheet 5 of 7

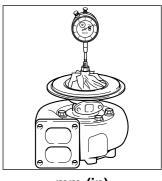
Screw, Thrust Bearing (Item 58)



**Axial Clearance** 







**Turbo Model** 

Nm (lb. in)

mm (in)

mm (in)

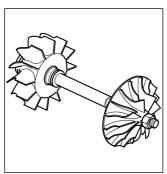
H1A	4.5 (40)	0.254 - 0.457 (0.010 - 0.018)	0.025 - 0.127 (0.001 - 0.005)
H1B	4.5 (40)	0.254 - 0.381 (0.010 - 0.015)	0.102 - 0.229 (0.004 - 0.009)
H1C (72 mm wheel)	4.5 (40)	0.305 - 0.457 (0.012 - 0.018)	0.025 - 0.127 (0.001 - 0.005)
H1C (82 mm wheel)	4.5 (40)	0.305 - 0.457 (0.012 - 0.018)	0.025 - 0.127 (0.001 - 0.005)
H1D (68 mm wheel)	4.5 (40)	0.305 - 0.457 (0.012 - 0.018)	0.025 - 0.127 (0.001 - 0.005)
H2A (72 mm wheel)	4.5 (40)	0.330 - 0.508 (0.013 - 0.020)	0.025 - 0.127 (0.001 - 0.005)
H2A (76 mm wheel)	4.5 (40)	0.330 - 0.508 (0.013 - 0.020)	0.025 - 0.127 (0.001 - 0.005)
H1E (82 mm wheel)	4.5 (40)	0.330 - 0.508 (0.013 - 0.020)	0.025 - 0.127 (0.001 - 0.005)
H2B	4.5 (40)	0.305 - 0.508 (0.012 - 0.020)	0.025 - 0.127 (0.001 - 0.005)
H2C/D/E/S	4.5 (40)	0.356 - 0.559 (0.014 - 0.022)	0.051 - 0.127 (0.002 - 0.005)
H3B	N/A	0.381 - 0.559 (0.015 - 0.022)	0.051 - 0.178 (0.002 - 0.007)
HC3/HC3B	N/A	0.381 - 0.559 (0.015 - 0.022)	0.051 - 0.152 (0.002 - 0.006)
HT3/HT3B/BHT3B/C/E	N/A	0.381 - 0.584 (0.015 - 0.023)	0.051 - 0.178 (0.002 - 0.007)
HT4/HT4B/HT4C	N/A	0.254 - 0.787 (0.010 - 0.031)	0.051 - 0.152 (0.002 - 0.006)
HC5A (127 mm wheel)	N/A	0.228 - 0.686 (0.009 - 0.027)	0.025 - 0.152 (0.001 - 0.006)
HC5A (130 mm wheel)	N/A	0.228 - 0.762 (0.009 - 0.030)	0.025 - 0.152 (0.001 - 0.006)

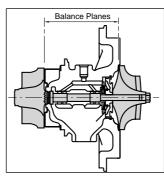
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#### **Rotor Balance**

# Core Balance at 4000 rev/min





	rha.	$N/I \cap$	$\Delta \Delta I$
ıu	rbo	IVIU	uei

g. mm (oz. in)

g. mm (oz. in)

	· ·	,	J	` '
	Turbine	Compressor	Turbine	Compressor
	End	End	End	End
H1A	1.5 (0.002)	1.5 (0.002)	N/A	N/A
H1B	1.5 (0.002)	1.5 (0.002)	N/A	N/A
H1C (72 mm wheel)	1.5 (0.002)	1.5 (0.002)	1.5 (0.002)	1.8 (0.0025)
H1C (82 mm wheel)	1.5 (0.002)	1.5 (0.002)	1.5 (0.002)	1.8 (0.0025)
H1D (68 mm wheel)	1.5 (0.002)	1.5 (0.002)	0.9 (0.0012)	1.25 (0.0017)
H2A (72 mm wheel)	1.5 (0.002)	1.5 (0.002)	1.5 (0.002)	1.8 (0.0025)
H2A (76 mm wheel)	1.5 (0.002)	1.5 (0.002)	1.5 (0.002)	1.8 (0.0025)
H1E (82 mm wheel)	1.5 (0.002)	1.5 (0.002)	1.5 (0.002)	1.8 (0.0025)
H2B	2.2 (0.003)	4.4 (0.006)	N/A	N/A
H2C/D/E/S	2.2 (0.003)	4.4 (0.006)	N/A	N/A
H3B	4.4 (0.006)	7.2 (0.010)	4.4 (0.006)	7.2 (0.010)
HC3/HC3B	4.4 (0.006)	7.2 (0.010)	4.4 (0.006)	7.2 (0.010)
HT3/HT3B/BHT3B/C/E	4.4 (0.006)	7.2 (0.010)	4.4 (0.006)	7.2 (0.010)
HT4/HT4B/HT4C	3.6 (0.005)	5.1 (0.007)	3.6 (0.005)	5.1 (0.007)
HC5A (127 mm wheel)	7.2 (0.010)	12.3 (0.017)	7.2 (0.010)	12.3 (0.017)
HC5A (130 mm wheel)	7.2 (0.010)	12.3 (0.017)	7.2 (0.010)	12.3 (0.017)

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#### H Service Data Sheet 7 of 7

#### Service Data Sheet Notes

- 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.
- 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.
- 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.
- 10. V band Part no. 3539458 superceded Part no. 3504959 from October 2002. Check part number to ensure correct torque setting is used during reassembly.

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