



Valves Spring/Retainer Kits Rods Pistons Crankshafts / Rotating Assemblies

4G63 / 4G64 - ECONOMICAL "H" BEAM STEEL CONNECTING RODS - [learn more about our connecting rods](#)

Manley "H" Beam connecting rods are manufactured from 4340 forgings to the same exacting standards developed and approved by our original equipment customers. There is a vast difference in quality between a Manley "H" Beam and the "other" inexpensive H-Beams on the market. Weight matched to +/- 1.5 grams. Perfectly round big and small ends. Bend and twist is tightly controlled. Cap fasteners are 3/8" ARP 2000 for the H-Beam and H-Tuff and 3/8" ARP Custom Age 625+ for the H-Tuff Plus. H-Tuff and H-Tuff Plus Series have a heavier beam for higher boost applications.



Part #	Center-to-Center	Big End Bore	Big End Width	Pin Diameter	Pin Bore	Gram Weight
Eagle Talon SOHC to DOHC 2.0L 420A						
14004-4	5.472"	2.008"	1.031"	.827" (21mm)	.8281"	570
Mitsubishi Eclipse GS, GST 2.0 (6 Bolt 4G63, 4G63T 1990-1992)						
14021-4	5.905"	1.890"	1.115"	.827" (21 mm)	.8281"	550
Mitsubishi Eclipse GS, GST, GSX & Eagle Talon TSi 2.0 (6 Bolt 4G63, 4G63T 1990-1993.5)						
14002-4	5.905"	1.890"	1.115"	.866" (22 mm)	.8671"	550
Mitsubishi Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Mitsubishi Evolution VIII, IX (4G63T 2003-2006)						
14022-4	5.905"	1.890"	1.038"	.866" (22 mm)	.8671"	580
15022-4 (H-Tuff)	5.905"	1.890"	1.038"	.866"(22mm)	.8671"	635
15022R6-4 (H-Tuff Plus)	5.905"	1.890"	1.038"	.866"(22mm)	.8671"	635
Mitsubishi Eclipse GST, GSX & Eagle Talon TSi (7 Bolt 4G63, 4G63T 1993.5-1999) Mitsubishi Evolution VIII, IX (4G63T 2003-2006) - .237"/6mm Longer						
14020-4	6.142"	1.890"	1.038"	.866" (22 mm)	.8671"	545
15020-4 (H-Tuff)	6.142"	1.890"	1.038"	.866"(22mm)	.8671"	635
15020R6-4 (H-Tuff Plus)	6.142"	1.890"	1.038"	.866"(22mm)	.8671"	635

4G63 / 4G64 - PRO SERIES TURBO TUFF "I" BEAM STEEL CONNECTING RODS - [learn more about our connecting rods](#)

Manley Pro Series connecting rods are forged from aircraft quality 4340 vacuum degassed material. Each rod is fully machined in the Manley Lakewood, NJ factory to the highest standards. Our signature "Turbo Tuff" design combines the appropriate weight and rugged strength for ultimate horsepower applications. Each rod is shot peened after machining and magnafluxed. Bores are round and without taper. Bend and twist is tightly controlled. Cap fasteners are 3/8" ARP 2000 cap screws.



These rods are also available with ARP 625+ fasteners. To order, affix an "R6" to the part number.

Part #	Center-to-Center	Big End Bore	Big End Width	Pin Diameter	Pin Bore	Gram Weight
Mitsubishi Eclipse GS, GST 2.0, GSX & Eagle Talon TSi (6 Bolt 4G63, 4G63T 1990-1993.5)						
14413-4	5.905"	1.890"	1.115"	.827" (21 mm)	.8281"	650
14407-4	5.905"	1.890"	1.115"	.866" (22 mm)	.8671"	645
Mitsubishi Eclipse GS, GST 2.0, GSX & Eagle Talon TSi (6 Bolt 4G63, 4G63T 1990-1993.5) - .237"/6mm Longer						
14426-4	6.142"	1.890"	1.115"	.866" (22 mm)	.8671"	660
Mitsubishi Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Mitsubishi Evolution VIII, IX (4G63T 2003-2006)						
14403-4	5.905"	1.890"	1.038"	.866" (22 mm)	.8671"	630
14400-4*	5.905"	1.890"	1.038"	.866" (22 mm)	.8671"	625
Mitsubishi Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999), Mitsubishi Evolution VIII, IX (4G63T 2003-2006) - .237"/6mm Longer						
14421-4	6.142"	1.890"	1.038"	.866" (22 mm)	.8671"	645
Mitsubishi Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999), Mitsubishi Evolution VIII, IX (4G63T 2003-2006) - .473"/12mm Longer						
14422-4	6.378"	1.890"	1.038"	.866" (22 mm)	.8671"	655

*Utilizes lighter weight straight beam design for stroker applications.

4G63 / 4G64 - PRO SERIES 300 M ALLOY - [learn more about our connecting rods](#)

- Forged from 300 M aircraft quality material
- Fully machined to produce the lightest and strongest rod possible
- Shot peened and 100% magnafluxed
- 3/8" ARP 2000 cap fasteners
- Horsepower range for these rods is 1,300+ H.P. with ARP 2000 fasteners and 1,500 H.P. with ARP 625+ fasteners



Part #	Center-to-Center	Big End Bore	Big End Width	Pin Diameter	Pin Bore	Gram Weight
Mitsubishi Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Mitsubishi Evolution VIII, IX (4G63T 2003-2006)						
15403-4	5.905"	1.890"	1.038"	.866" (22 mm)	.8671"	675
15403R6-4 ARP 625+	5.905"	1.890"	1.038"	.866" (22 mm)	.8671"	675

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Valves

Spring/Retainer Kits

Rods

Pistons

Crankshafts / Rotating Assemblies

4G63 / 4G64 - Mitsubishi 4G63/4G64 7 Bolt Crankshafts

Forged "Race Series" For Street / Strip

- Premium heat treated forgings
- Special teardrop, diagonal oiling features not found on stock OEM style cranks
- Better performance at High RPM
- Stress Relieved & Shot Peened
- Nitrided
- 100% Magnafluxed



Forged Part No.	Stroke	Weight
190100	88mm	33.5 lbs
190120	100mm	37 lbs

4G63 / 4G64 - Mitsubishi 4G63/4G64 7 Bolt Crankshafts

Fully Machined "Turbo Tuff Series" Billet For High Horsepower / High Boost Applications

- 4340 Billet
- Multi-step heat treatment process
- Stress Relieved and Shot Peened
- Nitrided
- 100% Magnafluxed
- Special teardrop diagonal oiling
- Knife-edged counterweights



Manley Turbo Tuff Series Billet Mitsubishi crankshafts now feature uniquely designed, ultra-lightweight, fully contoured counterweights resulting in reduced windage and maximum performance.

Billet Part No.	Stroke	Weight
190100B	88mm	32 lbs
190110B	94mm	32.5 lbs
190120B	100mm	33.5 lbs
190120BSLW	100mm	29.5 lbs

Ordering a Manley Mitsubishi Rotating Assembly is as easy as 1-2-3...

1. Choose your Crankshaft part number based on stroke and style (for Mitsubishi either Forged Race Series or Turbo Tuff Billet) and order the corresponding Rod and Main bearing part numbers shown.
2. Choose your connecting rod part number.
3. Choose your piston part number based on desired bore size and compression ratio (piston pins, locks and rings are included).

Ordering all of the required components for your rotating assembly from Manley will result in extra \$ savings. Please contact your Manley representative for more details.

CRANKS

- Premium heat treated forgings or lightweight 4340 billet
- Multi-step heat treatment process and Nitrided for added strength
- Stress relieved, shot-peened, and 100% magnafluxed
- Fully profiled knife-edged counterweights on the billet forgings

RODS

- 4340 material forgings or aircraft quality 300M material for extreme boost
- Fully machined, heat treated, stress relieved, shot peened, and 100% magnafluxed
- Big and small end bores are final honed to a tolerance of $\pm .0002"$
- Bend and twist is tightly controlled
- Weight matched to +/- 1.5 grams
- H-Beam comes standard with 3/8" ARP 2000 bolts
- H-Plus comes standard with 3/8" ARP 625+ bolts
- I-Beam and 300M comes standard with 3/8" ARP 2000 bolts (affix an R6 suffix for ARP 625+ bolt upgrade)

PISTONS

- High strength 2618 alloy forgings
- Exacting ring groove squareness to cylinder wall provides maximum horsepower
- Offset wrist pin design
- Moly coated skirts

RINGS

- 1.2 x 1.2 x 2.8mm 4G63/4G64/EJ20
- 1.2 x 1.2 x 2.0mm EJ25
- Total Seal steel tops standard
- Rings included in piston kits

BEARINGS

- Premium ACL Race Series with narrowed rod bearings

4G63 / 4G64 - Mitsubishi 7 Bolt 4G63 STD Stroke Series 2.0L

Forged "Race Series" 88mm Stroke Crank w/150mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190100 Forged	14022-4	30060	606000C-4	85mm/-12cc Dish	9.0	8.5

150mm H-Beam	Rod	606005C-4	85.5mm/-12cc Dish	9.0	8.5
or	&	606010C-4	86mm/-12cc Dish	9.0	8.5
14022R6-4	33060 Mains Only	606015C-4	86.5mm/-12cc Dish	9.0	8.5
150mm H-Plus	or	606020C-4	87mm/-12cc Dish	9.0	8.5
or	33060T	606100C-4	85mm/-8cc Dish	9.5	9.0
14400-4	Mains w/ Thrusts	606105C-4	85.5mm/-8cc Dish	9.5	9.0
150mm LW I-Beam		606110C-4	86mm/-8cc Dish	9.5	9.0
or		606115C-4	86.5mm/-8cc Dish	9.5	9.0
14403-4		606120C-4	87mm/-8cc Dish	9.5	9.0
150mm TT I-Beam		606200C-4	85mm/-2.5cc Flat Top	10.5	10.0
or		606205C-4	85.5mm/-2.5cc Flat Top	10.5	10.0
15403-4		606210C-4	86mm/-2.5cc Flat Top	10.5	10.0
150mm 300M I-Beam		606215C-4	86.5mm/-2.5cc Flat Top	10.5	10.0
		606220C-4	87mm/-2.5cc Flat Top	10.5	10.0

4G63 / 4G64 - Mitsubishi 7 Bolt 4G63 STD Stroke Series 2.0L

Forged "Race Series" 88mm Stroke Crank w/156mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190100 Forged	14020-4	30060	617000C-4	85mm/-12cc Dish	9.0	8.5
	156mm H-Beam	Rod	617005C-4	85.5mm/-12cc Dish	9.0	8.5
	or	&	617010C-4	86mm/-12cc Dish	9.0	8.5
	14020R6-4	33060 Mains Only	617015C-4	86.5mm/-12cc Dish	9.0	8.5
	156mm H-Plus	or	617020C-4	87mm/-12cc Dish	9.0	8.5
	or	33060T				
14421-4	Mains w/ Thrusts					
156mm TT I-Beam						

4G63 / 4G64 - Mitsubishi 4G63 7 Bolt Stroker Series 2.1L

"Turbo Tuff" Billet 94mm Stroke Cranks w/150mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190110B Billet	14022-4	30060	618000C-4	85mm/-17cc Dish	9.0	8.5
	150mm H-Beam	Rod	618005C-4	85.5mm/-17cc Dish	9.0	8.5
	or	&	618010C-4	86mm/-17cc Dish	9.0	8.5
	14022R6-4	33060 Mains Only	618015C-4	86.5mm/-17cc Dish	9.0	8.5
	150mm H-Plus	or	618020C-4	87mm/-17cc Dish	9.0	8.5
	or	33060T				
	14400-4	Mains w/ Thrusts	618200C-4	85mm/-8cc Dish	10.5	10.0
	150mm LW I-Beam		618205C-4	85.5mm/-8cc Dish	10.5	10.0
	or		618210C-4	86mm/-8cc Dish	10.5	10.0
	14403-4					
	150mm TT I-Beam		618215C-4	86.5mm/-8cc Dish	10.5	10.0
	or		618220C-4	87mm/-8cc Dish	10.5	10.0
15403-4						
150mm 300M I-Beam						

4G63 / 4G64 - Mitsubishi 7 Bolt 4G63 Stroker Series 2.1L

"Turbo Tuff" Billet 94mm Stroke Cranks w/156mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190110B Billet	14020-4	30060	619000C-4	85mm/-17cc Dish	9.0	8.5
	156mm H-Beam	Rod	619005C-4	85.5mm/-17cc Dish	9.0	8.5
	or	&	619010C-4	86mm/-17cc Dish	9.0	8.5
	14020R6-4	33060 Mains Only	619015C-4	86.5mm/-17cc Dish	9.0	8.5
	156mm H-Plus	or	619020C-4	87mm/-17cc Dish	9.0	8.5
	or	33060T				
	14421-4	Mains w/ Thrusts	619200C-4	85mm/-8cc Dish	10.5	10.0
	156mm TT I-Beam		619205C-4	85.5mm/-8cc Dish	10.5	10.0
			619210C-4	86mm/-8cc Dish	10.5	10.0
		619215C-4	86.5mm/-8cc Dish	10.5	10.0	

	619220C-4	87mm/-8cc Dish	10.5	10.0
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4G63 / 4G64 - Mitsubishi 4G63 7 Bolt Stroker Series 2.3L

Forged "Race Series" & "Turbo Tuff" Billet 100mm Stroke Cranks w/150mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190120 Forged or 190120B Billet	14022-4	30060	608000C-4	85mm/-22cc Dish	9.0	8.5
	150mm H-Beam	Rod	608005C-4	85.5mm/-22cc Dish	9.0	8.5
	or	&	608010C-4	86mm/-22cc Dish	9.0	8.5
	14022R6-4	33060 Mains Only	608015C-4	86.5mm/-22cc Dish	9.0	8.5
	150mm H-Plus	or	608020C-4	87mm/-22cc Dish	9.0	8.5
	or	33060T				
	14400-4	Mains w/ Thrusts				
	150mm LW I-Beam					
	or					
	14403-4					
150mm TT I-Beam						
or						
15403-4						
150mm 300M I-Beam						

4G63 / 4G64 - Mitsubishi 4G64 7 Bolt De-Stroke Series 2.1L

Forged "Race Series" 88mm Stroke Crank w/156mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190100 Forged	14020-4	30060	606015C-4	86.5mm/-12cc Dish	9.0	8.5
	156mm H-Beam	Rod	606020C-4	87mm/-12cc Dish	9.0	8.5
	or	&	606115C-4	86.5mm/-8cc Dish	9.5	9.0
	14020R6-4	33060 Mains Only	606120C-4	87mm/-8cc Dish	9.5	9.0
	156mm H-Plus	or	606215C-4	86.5mm/-2.5cc Flat Top	10.5	10.0
	or	33060T	606220C-4	87mm/-2.5cc Flat Top	10.5	10.0
	14421-4	Mains w/ Thrusts				
156mm TT I-Beam						

4G63 / 4G64 - Mitsubishi 4G64 7 Bolt De-Stroke Series 2.1L

Forged "Race Series" 88mm Stroke Crank w/162mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190100 Forged	14422-4	30060	617015C-4	86.5mm/-12cc Dish	9.0	8.5
	162mm TT I-Beam	Rod	617020C-4	87mm/-12cc Dish	9.0	8.5
		&				
		33060 Mains Only				
		or				
		33060T				
		Mains w/ Thrusts				

4G63 / 4G64 - Mitsubishi 4G64 7 Bolt De-Stroke Series 2.2L

"Turbo Tuff" Billet 94mm Stroke Crank w/156mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190110B Billet	14020-4	30060	618015C-4	86.5mm/-17cc Dish	9.0	8.5
	156mm H-Beam	Rod	618020C-4	87mm/-17cc Dish	9.0	8.5
	or	&	618215C-4	86.5mm/-8cc Dish	10.5	10.0
	14020R6-4	33060 Mains Only	618220C-4	87mm/-8cc Dish	10.5	10.0
	156mm H-Plus	or				
	or	33060T				
	14421-4	Mains w/ Thrusts				
156mm TT I-Beam						

4G63 / 4G64 - Mitsubishi 4G64 7 Bolt De-Stroke Series 2.2L

"Turbo Tuff" Billet 94mm Stroke Crank w/162mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190110B Billet	14422-4	30060	619015C-4	86.5mm/-17cc Dish	9.0	8.5
	162mm TT I-Beam	Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	619020C-4	87mm/-17cc Dish	9.0	8.5
			619215C-4	86.5mm/-8cc Dish	10.5	10.0
			619220C-4	87mm/-8cc Dish	10.5	10.0

4G63 / 4G64 - Mitsubishi 4G64 7 Bolt Std Stroker Series 2.4L

Forged "Race Series" & "Turbo Tuff" Billet 100mm Stroke Cranks w/ 150mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190120 Forged or	14022-4	30060	613000C-4	86.5mm/-23.5cc Dish	9.0	8.5
	150mm H-Beam	Rod &	613005C-4	87mm/-23.5cc Dish	9.0	8.5
190120B Billet	or	33060 Mains Only or 33060T Mains w/ Thrusts	606015C-4	86.5mm/-12cc Dish	10.5	10.0
	14022R6-4		606020C-4	87mm/-12cc Dish	10.5	10.0
	150mm H-Plus					
	or					
	14400-4					
	150mm LW I-Beam					
	or					
	14403-4					
	150mm TT I-Beam					
	or					
	15403-4					
	150mm 300M I-Beam					

4G63 / 4G64 - Mitsubishi 4G64 7 Bolt Std Stroker Series 2.4L

Forged "Race Series" & "Turbo Tuff" Billet 100mm Stroke Cranks w/ 156mm Rods

Crank P/N Type	Rod P/N Desc.	Bearing P/N Desc.	Piston P/N	Piston Desc.	Compression Ratio	
					43cc	47cc
190120 Forged or	14020-4	30060	608015C-4	86.5mm/-22cc Dish	9.1	8.6
	156mm H-Beam	Rod &	608020C-4	87mm/-22cc Dish	9.1	8.6
190120B Billet	or	33060 Mains Only or 33060T Mains w/ Thrusts	617015C-4	86.5mm/-12cc Dish	10.5	10.0
	14020R6-4		617020C-4	87mm/-12cc Dish	10.5	10.0
	156mm H-Plus					
	or					
	14421-4					
	156mm TT I-Beam					