

MANLEY

Powers the Winners



2022 SPORT COMPACT
High Performance Engine Components

MANLEY®

As we enter 2022, our 56th anniversary, upon reflection, the events of the past two years have been nothing short of extraordinary. Manley Performance was acquired by Race Winning Brands in late February 2020. It was an exciting time, but unfortunately short-lived, as only a mere two weeks post close, we were all faced with the beginnings of the COVID crisis. The world as we knew it completely changed.

I'm so incredibly proud of our team and how we navigated through the pandemic. Difficult but necessary decisions were made. Smart, strategic plans were properly executed to ensure our company's survival and, most importantly, keep our employees safe and healthy.

And, to top things off, in the midst of all the obstacles brought on by the pandemic, demand for our products not only bounced back, but skyrocketed to record levels. For this, I would like to thank our incredibly loyal customer base. Your overwhelming satisfaction with the quality of our products and your gratitude for our high level of customer service are what continue to drive us every day here at Manley Performance.

Our mission remains: to manufacture the finest internal engine components in the industry at fair, competitive prices and provide outstanding service to our customers.

Thank you for choosing Manley Performance products and I wish all of you a safe and prosperous 2022!

Trip Manley



MEET THE TEAM

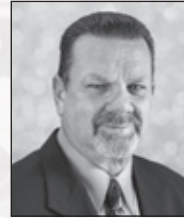
MANAGEMENT TEAM



Trip Manley
President



Michael Tokarchik
General Manager



Pete Coleman
Manufacturing Manager



Gil Morejon
Controller

OFFICE & SALES STAFF



Ryan Sammond
Operations Manager



Kari McNair
Purchasing Manager



Frank TenBroeck
Project Manager



Randy Longstreet
Product Manager



Jesse Vazquez
Sales Coordinator



Michael Pomeroy
Sales Representative
/ Drag Race Manager



Pride Conner
Sales / Tech
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Kiara Tuminelli
Sales / Tech
Representative



Johnny Cilia
Sales / Tech
Representative



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Sales / Tech
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Customer and
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Julie Morejon
Accounts Payable



Erin Simons
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Lynn Cordasco
Accounts Receivable



Kevin Lorentzen
Manager
Manley West



Garrett Brown
Sales / Tech
Manley West

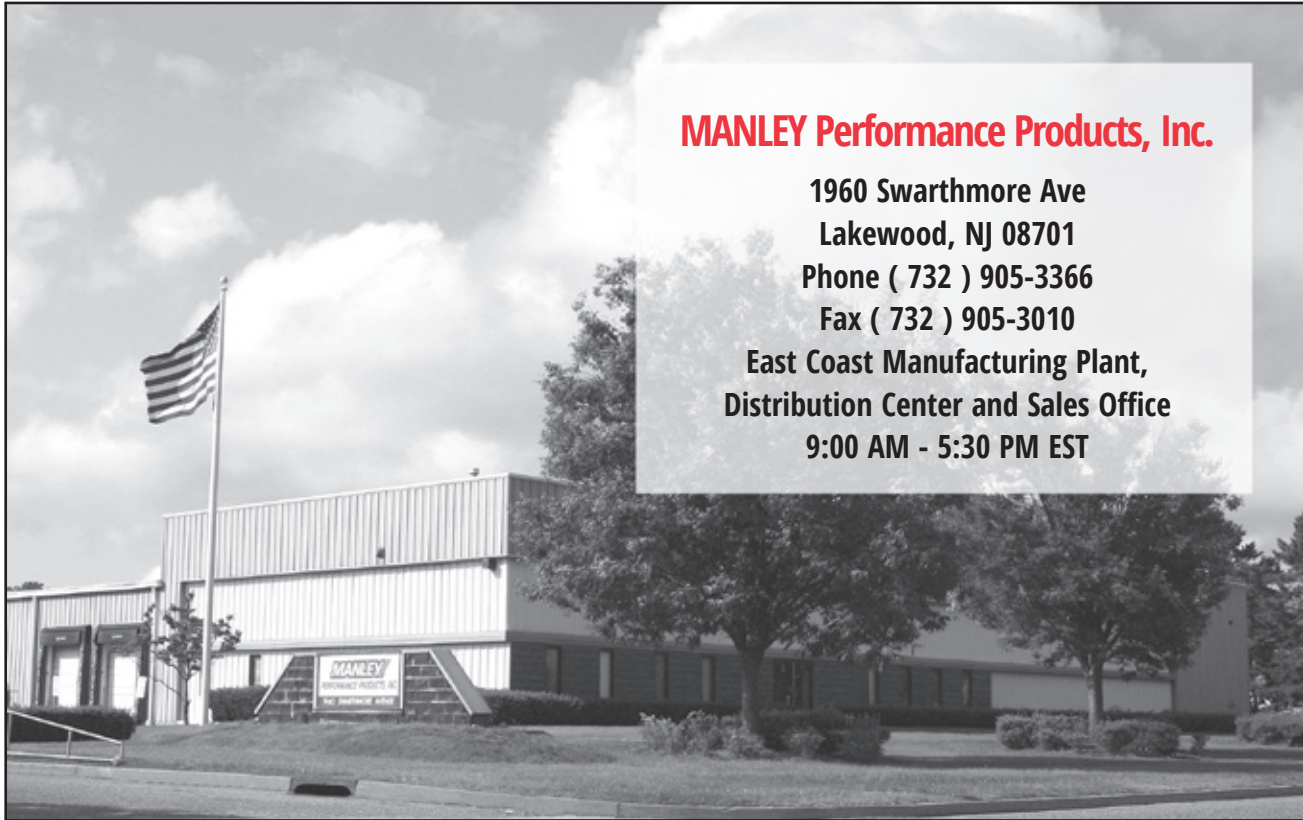


Dick Boyer
Regional Sales
Manager
Central



Gary Mecklenburg
Regional Sales
Manager
West Coast

MANLEY®



MANLEY Performance Products, Inc.

1960 Swarthmore Ave

Lakewood, NJ 08701

Phone (732) 905-3366

Fax (732) 905-3010

East Coast Manufacturing Plant,
Distribution Center and Sales Office

9:00 AM - 5:30 PM EST



Manley West

10800 Valley View Street

Cypress CA 90630

Phone (714) 978-3335

Fax (714) 978-3354

West Coast Distribution Facility

12:00 PM - 8:30 PM EST

9:00 AM - 5:30 PM PST

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Manley Performance Products, Inc.

1960 Swarthmore Avenue, Lakewood, NJ 08701
Phone (732) 905-3366 FAX (732) 905-3010

Manley West

10800 Valley View Street, Cypress CA 90630
Phone (714) 978-3335 FAX (714) 978-3354

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All weights specified are approximate and subject to manufacturing tolerances.

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STAINLESS VALVES

VALVES

Honda / Acura Race Flo / Race Master Valves



Part No.	Type	Head Diameter	Stem Diameter	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head
ACURA INTEGRA GSR 1.7L - DOHC V-TEC 16 VALVE (B17A1) - 1992 - 1993									
ACURA INTEGRA GSR 1.8L - DOHC V-TEC 16 VALVE (B18C1-C3) - 1994 - 2000									
HONDA DEL SOL 1.6L - DOHC V-TEC 16 VALVE (B16A1) - 1994 - 1997									
HONDA CIVIC SI 1.6L - DOHC V-TEC 16 VALVE (B16A3) - 1999 - 2000									
11373-8	Exh.	28.0mm	5.46mm / .2150"	102.70mm	2.5mm	25° x 11/32"	.065"	.080"	20° Dish
11691-8	Exh.	28.0mm	5.46mm / .2150"	102.70mm	2.5mm	25° x 11/32"	.065"	.080"	Flat Face
11375-8	Exh.	28.5mm	5.46mm / .2150"	102.70mm	2.5mm	25° x 11/32"	.065"	.080"	20° Dish
11693-8	Exh.	28.5mm	5.46mm / .2150"	102.70mm	2.5mm	25° x 11/32"	.065"	.080"	Flat Face
11377-8	Exh.	29.0mm	5.46mm / .2150"	102.70mm	2.5mm	25° x 11/32"	.065"	.080"	20° Dish
11372-8	Int.	33.0mm	5.48mm / .2157"	102.40mm	2.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11690-8	Int.	33.0mm	5.48mm / .2157"	102.40mm	2.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	Flat Face
11374-8	Int.	33.5mm	5.48mm / .2157"	102.40mm	2.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11692-8	Int.	33.5mm	5.48mm / .2157"	102.40mm	2.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	Flat Face
11376-8	Int.	34.0mm	5.48mm / .2157"	102.40mm	2.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
ACURA RSX Type S 2.0L - DOHC i-VTEC 16 VALVE (K20A2) - 2001 - Up									
11127-8	Exh.	30.0mm	5.46mm / .2150"	109.04mm	2.08mm	25° x 11/32"	.065"	.080"	20° Dish
11129-8	Exh.	30.5mm	5.46mm / .2150"	109.04mm	2.08mm	25° x 11/32"	.065"	.080"	20° Dish
11131-8	Exh.	31.0mm	5.46mm / .2150"	109.04mm	2.08mm	25° x 11/32"	.065"	.080"	20° Dish
11128-8	Int.	35.0mm	5.48mm / .2157"	109.22mm	2.08mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11130-8	Int.	35.5mm	5.48mm / .2157"	109.22mm	2.08mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11132-8	Int.	36.0mm	5.48mm / .2157"	109.22mm	2.08mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
HONDA ACCORD 2.2L - SOHC V-TEC 16 VALVE (F22B1) - 1994 - 1997									
11371-8	Exh.	29mm	5.46mm / .2150"	114.25mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
11379-8	Exh.	30mm	5.46mm / .2150"	114.25mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
11370-8	Int.	34mm	5.48mm / .2157"	116.00mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11378-8	Int.	35mm	5.48mm / .2157"	116.00mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
HONDA CIVIC 1.6L - SOHC 16 VALVE (D16Z6-Y5-Y7-Y8) - 1992 - 2000									
11367-8	Exh.	26mm	5.46mm / .2150"	115.95mm	1.9mm	25° x 11/32"	.065"	.080"	20° Dish
11369-8	Exh.	27mm	5.46mm / .2150"	115.95mm	1.9mm	25° x 11/32"	.065"	.080"	20° Dish
11366-8	Int.	30mm	5.48mm / .2157"	118.60mm	1.9mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11368-8	Int.	31mm	5.48mm / .2157"	118.60mm	1.9mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
HONDA CIVIC CRX SI 1.6L - SOHC 16 VALVE (D16A6) - 1988 - 1991									
11383-8	Exh.	25mm	5.46mm / .2150"	118.75mm	4.35mm	25° x 11/32"	.065"	.080"	17° Dish
11385-8	Exh.	26mm	5.46mm / .2150"	118.75mm	4.35mm	25° x 11/32"	.065"	.080"	17° Dish
11384-8	Int.	29mm	5.48mm / .2157"	115.00mm	4.1mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11386-8	Int.	30mm	5.48mm / .2157"	115.00mm	4.1mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
HONDA PRELUDE 2.2L - DOHC V-TEC 16 VALVE (H22A1-A4) - 1993 - 2000									
11393-8	Exh.	30.0mm	5.46mm / .2150"	106.90mm	1.9mm	25° x 11/32"	.065"	.080"	20° Dish
11339-8	Exh.	30.5mm	5.46mm / .2150"	106.90mm	1.9mm	25° x 11/32"	.065"	.080"	20° Dish
11395-8	Exh.	31.0mm	5.46mm / .2150"	106.90mm	1.9mm	25° x 11/32"	.065"	.080"	20° Dish
11394-8	Int.	35.0mm	5.48mm / .2157"	106.65mm	1.9mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11338-8	Int.	35.5mm	5.48mm / .2157"	106.65mm	1.9mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11396-8	Int.	36.0mm	5.48mm / .2157"	106.65mm	1.9mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish

We recommend that customers check their valve guide size in order to achieve the proper valve stem to guide clearance

Ford 2.3L EcoBoost Race Flo / Extreme Duty Valves



Part No.	Type	Head Diameter	Stem Diameter	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head
EXTREME DUTY VALVES									
11197-8	Exh.	30.0mm	5.46mm / .2150"	104.75mm	3.75mm	25° x 11/32"	.050"	.100"	Flat Face
11199-8	Exh.	30.5mm	5.46mm / .2150"	104.75mm	3.75mm	25° x 11/32"	.050"	.100"	Flat Face
RACE FLO VALVES									
11196-8	Int.	32.5mm	5.48mm / .2157"	103.55mm	4.00mm	Pro Flo: 22° x 5/16"	.050"	.100"	17° Dish
11198-8	Int.	33.0mm	5.48mm / .2157"	103.55mm	4.00mm	Pro Flo: 22° x 5/16"	.050"	.100"	17° Dish

Mazda Race Flo / Race Master Valves



Part No.	Type	Head Diameter	Stem Diameter	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head
MAZDA MIATA 1.8L - DOHC 16 VALVE (BP056) - 1990 - 1999									
11101-8	Exh.	28mm	6mm / .2362"	101.52mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
11103-8	Exh.	29mm	6mm / .2362"	101.52mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
11102-8	Int.	33mm	6mm / .2362"	101.35mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11104-8	Int.	34mm	6mm / .2362"	101.35mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish

All Manley Performance aftermarket intake valves and exhaust valves for the Mazda engines are manufactured with a 6mm stem diameter. We recommend that customers check their valve guide size in order to achieve the proper valve stem to guide clearance. Guides may need to be honed when replacing valves. Factory sizes may vary depending on the specific motor.

Mitsubishi Race Flo Valves



Part No.	Type	Head Diameter	Stem Diameter	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head
MITSUBISHI ECLIPSE GS, GST 2.0L - DOHC 16 VALVE (4G63-4G63T) 1990 - 2000									
11133-8	Exh.	30.5mm	6.54mm / .2575"	109.7mm	3.8mm	Pro Flo: 22° x 7/16"	.065"	.080"	17° Dish
11161-8	Exh.	31.0mm	6.54mm / .2575"	109.7mm	3.8mm	Pro Flo: 22° x 7/16"	.065"	.080"	17° Dish
11135-8	Exh.	31.5mm	6.54mm / .2575"	109.7mm	3.8mm	Pro Flo: 22° x 7/16"	.065"	.080"	17° Dish
11134-8	Int.	34mm	6.57mm / .2587"	109.7mm	3.8mm	Pro Flo: 20° x 11/32"	.050"	.075"	15° Dish
11160-8	Int.	34.5mm	6.57mm / .2587"	109.7mm	3.8mm	Pro Flo: 20° x 11/32"	.050"	.075"	15° Dish
11136-8	Int.	35mm	6.57mm / .2587"	109.7mm	3.8mm	Pro Flo: 20° x 11/32"	.050"	.075"	15° Dish

Nissan GT-R 3.8L-DOHC 24 Valve VR38DETT Race Master / Extreme Duty Valves



Part No.	Type	Head Diameter	Stem Diameter	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head
EXTREME DUTY VALVES									
11193-12	Exh.	32.15mm	5.96mm / .2345"	92mm	2.16mm	25° x 11/32"	.060"	.100"	Dimple
11195-12	Exh.	33.15mm	5.96mm / .2345"	92mm	2.16mm	25° x 11/32"	.060"	.100"	Dimple
RACE MASTER VALVES									
11190-12	Int.	37.15mm	5.97mm / .2350"	95mm	4.95mm	25° x 11/32"	.050"	.100"	Flat Face
11192-12	Int.	38.15mm	5.97mm / .2350"	95mm	4.95mm	25° x 11/32"	.050"	.100"	Flat Face

Note: Tip area is reduced in diameter on both intake and exhaust to 5.46mm for compatibility with factory locks and retainers.

STAINLESS VALVES

VALVES

Nissan

Race Flo / Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ Chrome Stems and Hard Tips
- ▶ Improved flow with "Pro Flo" Intakes
- ▶ NK-842 Stainless Intake Material
- ▶ Swirl Polished and Fully Machined



We can also custom build 6.96mm/.2740" stem Extreme Duty exhaust valves from our 11281 GEN II blank stainless valve on page 8

Part No.	Type	Head Diameter	Stem Diameter	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head
NISSAN 300 ZX 3.0L - DOHC 24 VALVE (VG30D - TURBO VG30DTT) - 1990 - 1996									
11105-12	Exh.	29.5mm	6mm / .2362"	103.65mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
11107-12	Exh.	30.5mm	6mm / .2362"	103.65mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
11106-12	Int.	34.0mm	6mm / .2362"	103.13mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11108-12	Int.	35.0mm	6mm / .2362"	103.13mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
NISSAN 3.5L V6 - DOHC 24 VALVE (VQ35DE, VQ35DET)									
11149-12	Exh.	31.5mm	6mm / .2362"	94mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
11151-12	Exh.	32.0mm	6mm / .2362"	94mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
11153-12	Exh.	32.5mm	6mm / .2362"	94mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
11148-12	Int.	37.0mm	6mm / .2362"	96.5mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11150-12	Int.	37.5mm	6mm / .2362"	96.5mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11152-12	Int.	38.0mm	6mm / .2362"	96.5mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
NISSAN PATROL St-S, St-L, Ti 4.8L - DOHC 24 VALVE (VTC)									
11141-12	Exh.	33.5mm	6.96mm / .2740"	98.3mm	3.56mm	25° x 3/8"	.050"	.100"	Flat Face
11143-12	Exh.	34.7mm	6.96mm / .2740"	98.3mm	3.56mm	25° x 3/8"	.050"	.100"	Flat Face
11177-12	Exh.	35.0mm	6.96mm / .2740"	98.3mm	3.56mm	25° x 3/8"	.050"	.100"	Flat Face
11179-12	Exh.	35.0mm	6.96mm / .2740"	98.3mm	3.56mm	25° x 3/8"	.050"	.100"	20° Dish
11181-12	Exh.	35.5mm	6.96mm / .2740"	98.3mm	3.56mm	25° x 3/8"	.050"	.100"	Flat Face
11183-12	Exh.	35.5mm	6.96mm / .2740"	98.3mm	3.56mm	25° x 3/8"	.050"	.100"	20° Dish
11142-12	Int.	38.5mm	6.96mm / .2740"	100.21mm	3.56mm	Pro Flo: 12° x 3/8"	.045"	.100"	Flat Face
11144-12	Int.	39.7mm	6.96mm / .2740"	100.21mm	3.56mm	Pro Flo: 12° x 3/8"	.045"	.100"	Flat Face
11174-12	Int.	40.0mm	6.96mm / .2740"	100.21mm	3.56mm	Pro Flo: 12° x 3/8"	.045"	.100"	Flat Face
11176-12	Int.	40.0mm	6.96mm / .2740"	100.21mm	3.56mm	Pro Flo: 12° x 3/8"	.045"	.100"	7° Dish
11178-12	Int.	40.5mm	6.96mm / .2740"	100.21mm	3.56mm	Pro Flo: 12° x 3/8"	.045"	.100"	Flat Face
11180-12	Int.	40.5mm	6.96mm / .2740"	100.21mm	3.56mm	Pro Flo: 12° x 3/8"	.045"	.100"	7° Dish
NISSAN SENTRA SE-R 2.0L - DOHC 16 VALVE (SR20DE) - 1991 - 1998									
11109-8	Exh.	30.15mm	6mm / .2362"	102.4mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
11111-8	Exh.	31.15mm	6mm / .2362"	102.4mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish
NISSAN SENTRA SE-R 2.0L - DOHC 16 VALVE (SR20DET) - 1991 - 1998									
11145-8*	Exh.	30.15mm	6.96mm / .2740"	102.4mm	3.5mm	15° x 1/2"	.065"	.080"	9° Dish
11147-8*	Exh.	31.15mm	6.96mm / .2740"	102.4mm	3.5mm	15° x 1/2"	.065"	.080"	9° Dish
* Both of these exhaust valves feature a 1mm stem diameter reduction in the keeper groove area to allow the use of the same valve springs, retainers and locks as the intake valves.									
NISSAN SENTRA SE-R 2.0L - DOHC 16 VALVE (SR20DE, SR20DET) - 1991 - 1998									
11110-8	Int.	34.15mm	6mm / .2362"	101.4mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11112-8	Int.	35.15mm	6mm / .2362"	101.4mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
NISSAN 2.6L INLINE 6-24 VALVE (RB26DET/T)									
11163-12*	Exh.	30.15mm	6.96mm / .2740"	101.52mm	3.5mm	15° x 1/2"	.065"	.080"	9° Dish
11165-12*	Exh.	31.15mm	6.96mm / .2740"	101.52mm	3.5mm	15° x 1/2"	.065"	.080"	9° Dish
* Both of these exhaust valves feature a 1mm stem diameter reduction in the keeper groove area to allow the use of the same valve springs, retainers and locks as the intake valves.									
11162-12	Int.	34.6mm	6mm / .2362"	102.33mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
11164-12	Int.	35.6mm	6mm / .2362"	102.33mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish
NISSAN 3.0L INLINE 6 - SOHC 12 VALVE (RB30E/T)									
11185-6	Exh.	35.1mm	8mm / .3136"	124.59mm	4.45mm	25° x 7/16"	.065"	.100"	19° Dish
11187-6	Exh.	36.1mm	8mm / .3136"	124.59mm	4.45mm	25° x 7/16"	.065"	.100"	19° Dish
11182-6	Int.	42.1mm	7mm / .2750"	125.68mm	4.45mm	10° x 3/8"	.050"	.080"	5° Dish
11184-6	Int.	43.1mm	7mm / .2750"	125.68mm	4.45mm	10° x 3/8"	.050"	.080"	5° Dish

Manley Performance recommends that customers check their valve guide size in order to achieve the proper valve stem to guide clearance. Guides may need to be honed when replacing valves.

Subaru WRX EJ205 / STi EJ257

Race Series Valves & Extreme Duty Valves

- ▶ XtremeAlloy and XH-426 Stainless Exhaust Material
- ▶ Swirl Polished and Fully Machined

- ▶ NK-842 Stainless Intake Material
- ▶ Chrome Stems and Hard Tips



Part No.	Type	Head Diameter	Stem Diameter	Installed Height	O/A Length	Tip Length	Underhead Angle/Radius	Margin	Seat Width	Top of Head
RACE MASTER VALVES										
11155-8	Exh.	32mm	5.96mm/.2345"	Stock	104.75mm	3.5mm	25° x 11/32"	.060	.080	20° Dish
11171-8	Exh.	33mm	5.96mm/.2345"	Stock	104.75mm	3.5mm	25° x 11/32"	.060	.080	20° Dish
EXTREME DUTY VALVES										
11137-8	Exh.	32mm	5.96mm/.2345"	Stock	104.75mm	3.5mm	25° x 11/32"	.060	.100	20° Dish
11139-8	Exh.	33mm	5.96mm/.2345"	Stock	104.75mm	3.5mm	25° x 11/32"	.060	.100	20° Dish
RACE FLO VALVES										
11138-8	Int.	36mm	5.97mm/.2350"	Stock	104.6mm	3.5mm	Pro Flo: 19° x 5/16"	.050	.080	14° Dish
11140-8	Int.	37mm	5.97mm/.2350"	Stock	104.6mm	3.5mm	Pro Flo: 19° x 5/16"	.050	.080	14° Dish

Toyota Race Flo / Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material

- ▶ Improved flow with "Pro Flo" Intake Underhead
- ▶ Chrome Stems, Swirl Polished and Fully Machined

We can also custom build 6.96mm/.2740" stem Extreme Duty exhaust valves from our 11281 GEN II blank stainless valve on page 8.

Part No.	Type	Head Diameter	Stem Diameter	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	
TOYOTA 4AG (ATLANTIC)										
11113-8	Exh.	27.5mm	6mm / .2362"	99.75mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish	
11114-8	Int.	32.0mm	6mm / .2362"	99.6mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
TOYOTA LAND CRUISER 4.5L - DOHC 24 VALVE (1FZ-FE) - 1993 - 1998										
11167-12	Exh.	32.0mm	6.96mm / .2740"	99mm	3.8mm	15° x 1/2"	.065"	.080"	Flat Face	
11169-12	Exh.	33.2mm	6.96mm / .2740"	99mm	3.8mm	15° x 1/2"	.065"	.080"	Flat Face	
11189-12	Exh.	33.5mm	6.96mm / .2740"	99mm	3.8mm	15° x 1/2"	.065"	.080"	Flat Face	
11191-12	Exh.	33.5mm	6.96mm / .2740"	99mm	3.8mm	15° x 1/2"	.065"	.080"	9° Dish	
11173-12	Exh.	34.0mm	6.96mm / .2740"	99mm	3.8mm	15° x 1/2"	.065"	.080"	Flat Face	
11175-12	Exh.	34.0mm	6.96mm / .2740"	99mm	3.8mm	15° x 1/2"	.065"	.080"	9° Dish	
11166-12	Int.	38.0mm	6.96mm / .2740"	100mm	3.8mm	Pro Flo: 10° x 3/8"	.050"	.075"	Flat Face	
11168-12	Int.	39.2mm	6.96mm / .2740"	100mm	3.8mm	Pro Flo: 10° x 3/8"	.050"	.075"	Flat Face	
11186-12	Int.	39.5mm	6.96mm / .2740"	100mm	3.8mm	Pro Flo: 10° x 3/8"	.050"	.075"	Flat Face	
11188-12	Int.	39.5mm	6.96mm / .2740"	100mm	3.8mm	Pro Flo: 10° x 3/8"	.050"	.075"	5° Dish	
11170-12	Int.	40.0mm	6.96mm / .2740"	100mm	3.8mm	Pro Flo: 10° x 3/8"	.050"	.075"	Flat Face	
11172-12	Int.	40.0mm	6.96mm / .2740"	100mm	3.8mm	Pro Flo: 10° x 3/8"	.050"	.075"	5° Dish	
TOYOTA MR2 2.0L - DOHC 16 VALVE (TURBO 3SGTE) - 1990 - 1995										
11115-8	Exh.	29.0mm	6mm / .2362"	99.5mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish	
11117-8	Exh.	30.0mm	6mm / .2362"	99.5mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish	
11116-8	Int.	33.5mm	6mm / .2362"	100.55mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
11118-8	Int.	34.5mm	6mm / .2362"	100.55mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
TOYOTA SCION tC 2.4L - DOHC 16 VALVE (2AZFE)										
11157-8	Exh.	29.5mm	5.46mm / .2150"	101.65mm	2.49mm	25° x 11/32"	.065"	.080"	Flat Face	
11159-8	Exh.	30.5mm	5.46mm / .2150"	101.65mm	2.49mm	25° x 11/32"	.065"	.080"	Flat Face	
11156-8	Int.	34.0mm	5.48mm / .2157"	101.96mm	2.49mm	Pro Flo: 22° x 5/16"	.050"	.075"	Flat Face	
11158-8	Int.	35.0mm	5.48mm / .2157"	101.96mm	2.49mm	Pro Flo: 22° x 5/16"	.050"	.075"	Flat Face	
TOYOTA SUPRA 3.0L - DOHC 24 VALVE (7MGE - TURBO 7MGT) - 1986 - 1992										
11119-12	Exh.	27.5mm	6mm / .2362"	98.05mm	4.0mm	25° x 11/32"	.065"	.080"	20° Dish	
11121-12	Exh.	28.5mm	6mm / .2362"	98.05mm	4.0mm	25° x 11/32"	.065"	.080"	20° Dish	
11120-12	Int.	32.0mm	6mm / .2362"	98.05mm	4.0mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
11122-12	Int.	33.0mm	6mm / .2362"	98.05mm	4.0mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
TOYOTA SUPRA 3.0L I/L 6 CYL - DOHC 24 VALVE (2JZGE - 2JZGTE) - 1994 - 1998										
11123-12	Exh.	29.0mm	6mm / .2362"	99.1mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish	
11125-12	Exh.	30.0mm	6mm / .2362"	99.1mm	3.5mm	25° x 11/32"	.065"	.080"	20° Dish	
11124-12	Int.	33.6mm	6mm / .2362"	98.55mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	
11126-12	Int.	34.6mm	6mm / .2362"	98.55mm	3.5mm	Pro Flo: 22° x 5/16"	.050"	.075"	17° Dish	

Manley Performance recommends that customers check their valve guide size in order to achieve the proper valve stem to guide clearance. Guides may need to be honed when replacing valves.

STAINLESS VALVES

VALVES

Toyota Race Master Valves

- ▶ XH-426 Stainless Exhaust Material
- ▶ NK-842 Stainless Intake Material

- ▶ Chrome Stems and Hard Tips
- ▶ Swirl Polished and Fully Machined



These Manley valves are boxed in sets of 8 pieces. Please order two boxes of both intakes and exhausts to fit your engine.

Part No.	Type	Head Diameter	Stem Diameter	O / A Length	Tip Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head
TOYOTA 5.7L - DOHC 32 VALVE (3UR-FE)									
12365-8	Exh.	32.0mm	5.47mm / .2155"	110.62mm	5.59mm	25° x 3/8"	.050"	.110"	Flat Face
12367-8	Exh.	32.5mm	5.47mm / .2155"	110.62mm	5.59mm	25° x 3/8"	.050"	.110"	Flat Face
12364-8*	Exh.	38.0mm	5.47mm / .2155"	106.05mm	5.59mm	10° x 1/4"	.050"	.100"	Flat Face
12366-8*	Exh.	38.5mm	5.47mm / .2155"	106.05mm	5.59mm	10° x 1/4"	.050"	.100"	Flat Face

* Intakes have a backcut - .065" x 30°

Gen II Valve Blanks

Extreme Duty & Race Series

- ▶ Hard Tips and Hardened Grooves
- ▶ No Need for Inserted Tips or Wear Caps

The procedure for ordering a custom valve is as simple as 1-2-3 !

1. Select the blank appropriate for your finished piece based first on stem diameter.
2. Give us your final head diameter along with the seat and margin widths.
3. Specify the length of the valve you want, along with groove type and location.

* Part numbers with asterisks can be reduced .800" or 20.32mm. All others 1.500" or 38mm.



All Gen II custom stainless valve part numbers are priced to include all machining to render a finished valve provided that no more than .250" of material needs to be removed from the head diameter. If more than .250" of material is to be removed from the head diameter, then an additional machining charge P/N 04007 must be added to the price of the valve.

Part No.	Type	Maximum Head Diameter	Stem Diameter	Maximum Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Material
XTREMEALLOY GEN II CUSTOM EXHAUST VALVES									
11281-8	Exh.	38.0mm / 1.496	6.96mm / .2740	127.0mm / 5.000	15° x 1/2"	.080	.100	9° Dish	XtremeAlloy
11265-8	Exh.	39.0mm / 1.535	5.96mm / .2345	121.9mm / 4.800	25° x 11/32"	.080	.100	20° Dish	XtremeAlloy
11283-8	Exh.	33.0mm / 1.299	5.46mm / .2150	121.0mm / 4.764	25° x 11/32"	.065	.080	Flat Face	XtremeAlloy
RACE SERIES GEN II CUSTOM VALVES									
11247-8	Exh.	37.0mm / 1.457	6.96mm / .2740	121.9mm / 4.800	15° x 1/2"	.080	.100	9° Dish	XH-426
11246-8	Int.	48.0mm / 1.890	6.96mm / .2740	121.9mm / 4.800	10° x 3/8"	.050	.080	5° Dish	NK-842
11267-8	Exh.	41.9mm / 1.650	7.0mm / .2755	119.4mm / 4.700	30° x 1/2"	.060	.100	24° Dish	XH-426
11250-8	Int.	48.0mm / 1.890	7.0mm / .2750	137.9mm / 5.430	10° x 3/8"	.065	.080	5° Dish	NK-842
11268-8	Int.	50.8mm / 2.000	7.0mm / .2755	116.8mm / 4.600	28° x 7/16"	.050	.100	22° Dish	NK-842
11213-8*	Exh.	33.0mm / 1.299	6.0mm / .2362	113.5mm / 4.469	25° x 11/32"	.065	.080	20° Dish	XH-426
11212-8*	Int.	39.0mm / 1.535	6.0mm / .2362	113.5mm / 4.469	Pro Flo: 22° x 5/16"	.065	.080	17° Dish	NK-842
11266-8	Int.	35.0mm / 1.378	5.98mm / .2355	121.9mm / 4.800	12° x 5/16"	.065	.100	7° Dish	NK-842
11276-4*	Int.	40.0mm / 1.575	5.97mm / .2350	113.0mm / 4.449	25° x 11/32"	.065	.100	Flat Face	NK-842
11209-8*	Exh.	32.0mm / 1.260	5.46mm / .2150	121.0mm / 4.764	25° x 11/32"	.065	.080	Flat Face	XH-426
11208-8	Int.	37.0mm / 1.457	5.48mm / .2157	121.0mm / 4.764	Pro Flo: 22° x 5/16"	.065	.080	Flat Face	NK-842

Note: New part numbers are **BOLD & ITALICIZED**

Valve Locks

- ▶ Manufactured from premium quality heat treated steel
- ▶ Machined to exacting tolerances



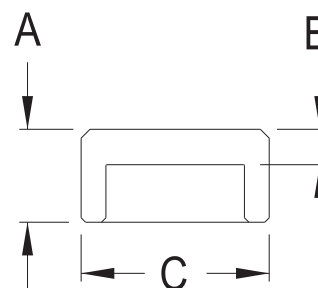
Part No.	Quantity	Description	Valve Stem	Groove Type	Angle	Wgt. / Pr.
13010-8	8 pr.	Honda / Acura	5.47mm / .2150"	OEM Radius	7°	1.5 gms
13012-8	8 pr.	Nissan	6.0mm / .2362"	OEM Radius	6°	1.4 gms
13014-8	8 pr.	Toyota	6.0mm / .2362"	OEM Radius	6°	1.4 gms
13016-8	8 pr.	Mitsubishi	6.56mm / .2581"	OEM Radius	6°	1.3 gms



CYL HEAD COMPONENTS

Wear Caps

- ▶ Thru-hardened 4140 alloy steel
- ▶ Special heat treatment to HRc 50-54
- ▶ Non rotating caps afford less valve tip erosion



Part No.	Quantity	Description	Minimum Tip	Type	A	B	C	Weight
42263-8	8 pcs.	.2165" stem valves (5.5mm)	.095"	Standard	.090"	.040"	.300"	0.6 gms
42254-8	8 pcs.	.2360" stem valves (6mm)	.275"	Non Rotating	.235"	.060"	.385"	2.5 gms
42264-8	8 pcs.	.2360" stem valves (6mm)	.095"	Standard	.090"	.040"	.320"	0.6 gms
42100-8	8 pcs.	.2740" stem valves (7mm)	.250"	Standard	.225"	.085"	.425"	2.9 gms
42118-8	8 pcs.	.2740" stem valves (7mm)	.290"	Non Rotating	.270"	.080"	.385"	2.5 gms
42110-8	8 pcs.	.2754" stem valves (7mm)	.250"	Standard	.225"	.085"	.425"	2.9 gms



VALVE SPRINGS

Acura/Honda, Dodge, Ford, Mazda & Mitsubishi Valve Springs

- ▶ Wound from super clean alloy
- ▶ Designed to handle aftermarket camshafts
- ▶ Revs up to 10,000 RPM with Manley titanium retainers

CYL HEAD COMPONENTS

Part No.	Quantity	Application	O.D. / I.D. Outer Inner	Pressures	Stock / Maximum Net Lift	Coil Bind	Rate (lbs. / in.)	Titanium Retainer
22105-16	16 pcs.	Acura B Series V-Tec High Performance Race	1.180" / .870" .865" / .660"	82 @ 1.350" 206 @ .950" 248 @ .815"	.400" .535"	.765"	310	23100-16
22110-16	16 pcs.	Honda H22 V-Tec	1.160" / .870" .865" / .660"	88 @ 1.400" 200 @ .950" 232 @ .840"	.450" .560"	.790"	227	23100-16
22120-16	16 pcs.	Honda B Series Non V-Tec <small>Stock installed height on B Series Non V-Tec spring is: Intake - 1.320" / Exhaust - 1.425".</small>	1.105" / .820" .800" / .630"	54 @ 1.375" 143 @ .990" 195 @ .760"	.385" .615"	.710"	230	23120-16
22140-16	16 pcs.	Honda K20A/K20Z	1.160" / .870" .865" / .660"	80 @ 1.590" 249 @ 1.140" 283 @ 1.050"	.450" .540"	1.000"	375	23140-16
22145-16	16 pcs.	Honda K20A3/K24A	1.106" / .787"	79 @ 1.565" 182 @ 1.185" 226 @ 1.025"	.380" .545"	.975"	274	23145-16
22150-16	16 pcs.	Honda F20C/F22C	1.160" / .870" .865" / .660"	84 @ 1.580" 264 @ 1.100" 283 @ 1.050"	.480" .530"	1.000"	375	23150-16
22190-16	16 pcs.	Dodge SRT-4	1.100" / .775"	92 @ 1.500" 188 @ 1.175" 237 @ 1.000"	.325" .500"	.950"	294	23190-16
22200-16	16 pcs.	Ford Duratec 2.0, 2.3L Ford EcoBoost 2.0L Mazda MZR 2.0, 2.3, 2.5L Mazda DISI MZR 2.3L Single Conical Ovate Wire	Top: .855" / .572" Bottom: .995" / .712"	85 @ 1.480" 160 @ 1.155" 200 @ .980"	.325" .500"	.935"	230	23200-16
22115-16	16 pcs.	Mitsubishi 4G63-4G63T DOHC 16 Valve (1990-1999) DSM	1.160" / .870" .865" / .660"	104 @ 1.580" 237 @ 1.210" 269 @ 1.120"	.370" .460"	1.070"	359	23115-16
22125-16	16 pcs.	Mitsubishi 4G63-4G63T DOHC 16 Valve (1990-2006) DSM / EVO	1.100" / .775"	66 @ 1.580" 175 @ 1.210" 237 @ 1.000"	.370" .580"	.950"	294	23125-16
22195-16	16 pcs.	Mitsubishi EVO X 4B11T DOHC 16 Valve (2008-Up)	.990" / .710"	86 @ 1.400" 180 @ 1.030" 198 @ .970"	.370" .430"	.920"	253	23195-16



Note: New part numbers are **BOLD & ITALICIZED**

Nissan, Subaru & Toyota Valve Springs

- ▶ Wound from super clean alloy
- ▶ Designed to handle aftermarket camshafts
- ▶ Revs up to 10,000 RPM with Manley titanium retainers

Part No.	Quantity	Application	O.D. / I.D. Outer Inner	Pressures	Stock / Maximum Net Lift	Coil Bind	Rate (lbs. / in.)	Titanium Retainer
22155-24	24 pcs.	Nissan Patrol TB48	1.100" / .775"	75 @ 1.550" 191 @ 1.165" 237 @ 1.000"	.385" .550"	.950"	294	23155-24
22160-16	16 pcs.	Nissan KA24DE	1.180" / .870" .865" / .660"	73 @ 1.400" 191 @ 1.050" 228 @ .900"	.350" .500"	.850"	310	23160-16
22165-16	16 pcs.	Nissan SR20DE/SR20DET	1.160" / .835"	90 @ 1.550" 185 @ 1.170" 225 @ 1.010"	.380" .540"	.960"	248	23165-16
22170-24	24 pcs.	Nissan VQ35DET	.990" / .710"	80 @ 1.425" 175 @ 1.050" 195 @ .970"	.375" .455"	.920"	253	23170-24
22175-24	24 pcs.	Nissan RB26DET	1.100" / .775"	80 @ 1.535" 197 @ 1.140" 237 @ 1.000"	.395" .535"	.950"	294	23175-24
22180-16	16 pcs.	Subaru WRX/Sti	1.050" / .755"	60 @ 1.420" 151 @ 1.050" 187 @ .895"	.370" .525"	.845"	245	23180-16
22185-16	16 pcs.	Subaru WRX/Sti Single Conical Ovate Wire	Top: 1.016" / .640" Bottom: 1.126" / .750"	95 @ 1.420" 217 @ 1.050" 264 @ .910"	.370" .510"	.860"	330	23185-16
22130-24	24 pcs.	Toyota Supra 2JZGT/2JZGTE 6 cyl.	1.050" / .755"	82 @ 1.325" 165 @ .985" 187 @ .895"	.340" .430"	.845"	245	23130-24
22135-24	24 pcs.	Toyota Supra 2JZGT/2JZGTE 6 cyl. Single Conical	Top: .856" / .560" Bottom: 1.046" / .750"	100 @ 1.300" 215 @ .960" 245 @ .870"	.340" .430"	.825"	339	23135-24
22205-32	32 pcs.	Toyota Tundra 5.7L 3UR-FE Uses factory spring seat	.990" / .710"	75 @ 1.450" 190 @ 1.020" 205 @ .970"	.430" .480"	.920"	265	23205-32

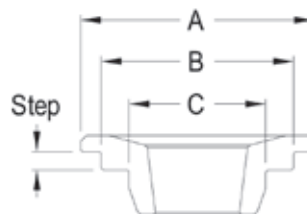


Note: New part numbers are **BOLD & ITALICIZED**

SPRING RETAINERS

Acura/Honda, Dodge, Ford, Mazda, Mitsubishi, Nissan, Subaru & Toyota

Titanium Retainers



- ▶ Heat treated aerospace grade titanium
- ▶ CNC machined to exacting tolerances
- ▶ Lightweight and extremely durable
- ▶ A must for your high revving sport compact engine

Part No.	Application	Spring	Valve Stem Diameter	Valve Lock Degree	Dimensions				Wgt/ Grams
					A	B	C	Step	
23000-16	Acura B18C / B16A / H22	Stock Spring	5.5mm	7°	1.100"	.830"	.600"	.080"	6
23100-16	Acura B16A / B18C / B17A Honda H22 V-Tec	Manley 22105, 22110	5.5mm	7°	1.150"	.850"	.650"	.080"	7
23120-16	Honda B18A / B (Non V-Tec)	Manley 22120	6.5mm	7°	1.100"	.805"	.610"	.080"	6
23140-16	Honda K20A/K20Z	Manley 22140	5.5mm	7°	1.050"	.850"	.610"	.080"	7
23145-16	Honda K20A3/K24A	Manley 22145	5.5mm	7°	1.050"	.775"	.610"	.045"	8
23150-16	Honda F20C/F22C	Manley 22150	5.5mm	7°	1.050"	.850"	.610"	.080"	7
23190-16	Dodge SRT-4	Manley 22190	6.0mm	7°	1.050"	.760"	----	.100"	6
23200-16	Ford Duratec 2.0, 2.3L Ford EcoBoost 2.0L Mazda MZR 2.0, 2.3, 2.5L Mazda DISI MZR 2.3L	Manley 22200	5.45 / 5.48mm	7°	.825"	.550"	----	.120"	4
23115-16	Mitsubishi 4G63-4G63T DOHC 16 Valve (1990-1999)	Manley 22115	6.6mm	6°	1.050"	.850"	.610"	.040"	8
23125-16	Mitsubishi 4G63-4G63T DOHC 16 Valve (1990-2006)	Manley 22125	6.6mm	6°	1.050"	.760"	----	.140"	9
23195-16	Mitsubishi EVO X 4B11T	Manley 22195	5.5mm	7.5°	.960"	.690"	----	.100"	7
23155-24	Nissan Patrol TB48	Manley 22155	6.0mm	6°	1.050"	.760"	----	.080"	7
23160-16	Nissan KA24DE	Manley 22160	7.0mm	7°	1.150"	.850"	.650"	.080"	9
23165-16	Nissan SR20DE/SR20DET	Manley 22165	6.0mm	6°	1.150"	.825"	----	.080"	10
23170-24	Nissan VQ35DET	Manley 22170	5.5mm	6°	.960"	.690"	----	.140"	8
23175-24	Nissan RB26DETT	Manley 22175	6.0mm	6°	1.050"	.760"	----	.080"	8
23180-16	Subaru WRX/Sti	Manley 22180	6.0mm	6°	1.050"	.745"	.515"	.100"	6
23185-16	Subaru WRX/Sti	Manley 22185	6.0mm	6°	.875"	.627"	.465"	.095"	5
23130-24	Toyota Supra 2JZGT/2JZGTE 6 cyl.	Manley 22130	6.0mm	6°	1.050"	.745"	.515"	.100"	6
23135-24	Toyota Supra 2JZGT/2JZGTE 6 cyl.	Manley 22135	6.0mm	6°	.800"	.550"	----	.100"	3
23205-32	Toyota Tundra 5.7L 3UR-FE	Manley 22205	5.5mm	6°	.920"	.690"	----	.080"	7



Note: New part numbers are **BOLD & ITALICIZED**

SPRING & RETAINER KITS

Acura/Honda, Dodge, Ford, Mazda, Mitsubishi, Nissan, Subaru & Toyota

Valve Spring & Retainer Kits

- ▶ Wound from super clean alloy
- ▶ Designed to handle aftermarket camshafts

Part No. Without Valve Locks	Part No. With Valve Locks	Application	Max Net Lift	Spring No.	Titanium Retainer No.	Valve Locks
26105	26105K	Acura B Series, V-Tec	.535"	22105-16	23100-16	13010-8
26110	26110K	Honda H22, V-Tec	.560"	22110-16	23100-16	13010-8
26120	-----	Honda B Series, Non V-Tec	.615"	22120-16	23120-16	-----
26140	26140K	Honda K20A/K20Z	.540"	22140-16	23140-16	13010-8
26145	26145K	Honda K20A3/K24A	.545"	22145-16	23145-16	13010-8
26150	26150K	Honda F20C/F22C	.530"	22150-16	23150-16	13010-8
26190	-----	Dodge SRT-4	.500"	22190-16	23190-16	-----
26200	-----	Ford Duratec 2.0, 2.3L Ford EcoBoost 2.0L Mazda MZR 2.0, 2.3, 2.5L Mazda DISI MZR 2.3L	.500"	22200-16	23200-16	-----
26115*	26115K*	Mitsubishi 4G63-4G63T DSM DOHC 16 Valve (1990-1999)	.460"	22115-16	23115-16	13016-8
26125	26125K	Mitsubishi 4G63-4G63T DSM / EVO DOHC 16 Valve (1990-2006)	.580"	22125-16	23125-16	13016-8
26195	-----	Mitsubishi EVO X 4B11T	.430"	22195-16	23195-16	-----
26155	-----	Nissan Patrol TB48	.550"	22155-24	23155-24	-----
26160*	-----	Nissan KA24DE	.500"	22160-16	23160-16	-----
26165	26165K	Nissan SR20DE/SR20DET	.540"	22165-16	23165-16	13012-8
26170	-----	Nissan VQ35DET	.455"	22170-24	23170-24	-----
26175	26175K	Nissan RB26DETT	.535"	22175-24	23175-24	13012-8
26180	-----	Subaru WRX/Sti	.525"	22180-16	23180-16	-----
26185	-----	Subaru WRX/Sti	.510"	22185-16	23185-16	-----
26130	26130K	Toyota Supra, 2JZGT/2JZGTE 6 cyl.	.430"	22130-24	23130-24	13014-8
26135	26135K	Toyota Supra, 2JZGT/2JZGTE 6 cyl.	.430"	22135-24	23135-24	13014-8
26205	-----	Toyota Tundra 5.7L 3UR-FE (Uses factory spring seat)	.480"	22205-32	23205-32	-----

* These kits also include spring locators



Note: New part numbers are **BOLD & ITALICIZED**

PLATINUM SERIES PISTONS

Acura / Honda

- **B18C** • **K24A w/ K20A Head**
- **K20A** • **B16A**
- **B20B w/ B16A Head**



- ▶ 2618 high strength material; lightweight design
- ▶ Offset wrist pin for quiet start-ups
- ▶ .150" wall Premium Chrome Moly pin
- ▶ 9310 alloy .210" wall pin upgrades available (see page 33)

- ▶ Pressure balance groove
- ▶ Premium Steel top ring sets and round wire locks included
- ▶ Recommended piston clearance .004" measured 1.100" from the bottom of the oil ring

Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume(cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Acura Integra GSR 94-01 - B18C1 DOHC V-Tec (.827"/21mm x 2.250" Pin)										
600000-4	81	STD	5.433"	87.2	1.181"	-9.3	9.0	Dish	290	46810-4
600005-4	81.5	+.5mm	5.433"	87.2	1.181"	-9.3	9.0	Dish	294	46815-4
600100-4	81	STD	5.433"	87.2	1.181"	1.2	11.0	Dome	293	46810-4
600105-4	81.5	+.5mm	5.433"	87.2	1.181"	1.2	11.0	Dome	297	46815-4
600200-4	81	STD	5.433"	87.2	1.195"	6.7	12.5	Dome	295	46810-4
600205-4	81.5	+.5mm	5.433"	87.2	1.195"	6.7	12.5	Dome	299	46815-4
Acura Integra Type R 97-00 - B18C5 DOHC V-Tec (.827"/21mm x 2.250" Pin)										
601005-4	81.5	+.5mm	5.433"	87.2	1.195"	3.4	11.5	Dome	315	46815-4
601105-4	81.5	+.5mm	5.433"	87.2	1.195"	-9.8	9.0	Dish	294	46815-4
Acura RSX 02-Up - K20A-A2-A3 DOHC V-Tec (.866"/22mm x 2.500" Pin)										
610000-4	86	STD	5.472"	86.0	1.181"	-6.5	9.0	Dish	319	46860-4
610100-4	86	STD	5.472"	86.0	1.181"	8.4	11.5	Dome	324	46860-4
610200-4	86	STD	5.472"	86.0	1.181"	12.5	12.5	Dome	329	46860-4
Honda Del Sol 93-97/Civic SI 99-00 - B16A1-A2-A3 DOHC V-Tec (.827"/21mm x 2.250" Pin)										
603000-4	81	STD	5.290"	77.4	1.181"	8.0	11.0	Dome	310	46810-4
603005-4	81.5	+.5mm	5.290"	77.4	1.181"	8.0	11.0	Dome	316	46815-4
603100-4	81	STD	5.290"	77.4	1.181"	-2.2	9.8	Flat Top	291	46810-4
603105-4	81.5	+.5mm	5.290"	77.4	1.181"	-2.2	9.8	Flat Top	297	46815-4
Honda CRV 97-00 - B20B4 w/ B16A1-A2-A3 Head (.827"/21mm x 2.250" Pin)										
602000-4	84	STD	5.394"	89.0	1.181"	-11.9	9.0	Dish	299	46840-4
602005-4	84.5	+.5mm	5.394"	89.0	1.181"	-11.9	9.0	Dish	312	46845-4
602010-4	85	+1.0mm	5.394"	89.0	1.181"	-11.9	9.0	Dish	325	46850-4
602100-4	84	STD	5.394"	89.0	1.181"	4.8	12.5	Dome	318	46840-4
602105-4	84.5	+.5mm	5.394"	89.0	1.181"	4.8	12.5	Dome	331	46845-4
602110-4	85	+1.0mm	5.394"	89.0	1.181"	4.8	12.5	Dome	344	46850-4
Honda CRV 02-Up - K24A w/ K20A-A2-A3 Head DOHC V-Tec (.866"/22mm x 2.500" Pin)										
611000-4	87	STD	5.984"	99.0	1.181"	-17.9	9.0	Dish	334	46870-4
611100-4	87	STD	5.984"	99.0	1.181"	-1.0	11.5	Flat Top	339	46870-4
611200-4	87	STD	5.984"	99.0	1.181"	4.5	12.5	Dome	344	46870-4

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Audi / Lamborghini

- **5.0L FSI V10**
- **5.2L FSI V10**

- ▶ 2618 high strength material; lightweight design
- ▶ Offset wrist pin for quiet start-ups
- ▶ Premium Steel top ring sets and round wire locks included
- ▶ .210" wall 9310 alloy pin included P/N 42532



- ▶ Pressure balance groove
- ▶ Recommended piston clearance .0035" measured .850" from the bottom of the oil ring

Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume(cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Lamborghini Gallardo V10 5.0L FSI 2003-2008 (.787"/20mm x 2.250" Pin)										
639000CE-10 *	82.5	STD	6.063"	92.8	1.087"	-3.5	10.0	Dish	TBA	46826-10
Audi R8/Lamborghini Gallardo V10 5.2L FSI 2009-Present (.787"/20mm x 2.250" Pin)										
640000CE-10 *	84.5	STD	6.063"	92.8	1.087"	-6.5	10.0	Dish	323	46846-10
640000CPE-10 **	84.5	STD	6.063"	92.8	1.087"	-6.5	10.0	Dish	323	46846C-10

*Designed for use in sleeved blocks with iron cylinder walls

**Special skirt coating for use in factory blocks with Nikasil coated cylinders.

BMW

- **N54B30**

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ .210" wall Premium Chrome Moly pin (Standard Series) included P/N 42451
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42551
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured .850" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Cyl Head (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
646000C-6	646000CE-6	84.00	STD	5.709"	89.6	1.252"	-16.5	32	10.2	Dish	338	46840-6
646005C-6	646005CE-6	84.50	+0.5mm	5.709"	89.6	1.252"	-16.5	32	10.2	Dish	345	46845-6

BMW

- **N55/S55**

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ .210" wall Premium Chrome Moly pin (Standard Series) included P/N 42451
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42551
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured .850" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Cyl Head (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
647000C-6	647000CE-6	84.00	STD	5.683"	89.6	1.276"	-10.5	37	10.2	Dish	357	46840-6
647005C-6	647005CE-6	84.50	+0.5mm	5.683"	89.6	1.276"	-10.5	37	10.2	Dish	364	46845-6

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

Note: New part numbers are **BOLD & ITALICIZED**



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PLATINUM SERIES PISTONS

Ford

• 2.0L EcoBoost

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .150" wall Premium Chrome Moly pin (Standard Series) included P/N 42248
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42548
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top ring sets and round wire locks included
- ▶ Recommended piston clearance .0030" measured 1.100" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
Ford Focus ST 2012-Up (.886"/22.5mm x 2.250" Pin)											
636000C-4	636000CE-4	87.5	STD	6.136"	83	1.291"	-7.3	9.3	Dish	379	46875-4
636005C-4	636005CE-4	88	+.5mm	6.136"	83	1.291"	-7.3	9.3	Dish	387	46880-4

Ford

• 2.3L EcoBoost

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .150" wall Premium Chrome Moly pin (Standard Series) included P/N 42248
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42548
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top ring sets and round wire locks included
- ▶ Recommended piston clearance: .0030" measured 1.100" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
Ford Focus RS 2016-Up, Mustang 2015-Up (.886"/22.5mm x 2.250" Pin)											
637000C-4	637000CE-4	87.5	STD	5.875"	94	1.291"	-8.2	9.5	Dish	382	46875-4
637001C-4	637001CE-4	87.6	+.1mm	5.875"	94	1.291"	-8.2	9.5	Dish	384	46876-4
637005C-4	637005CE-4	88	+.5mm	5.875"	94	1.291"	-8.2	9.5	Dish	390	46880-4

Ford XR-6

Turbo 4.0L BA Falcon

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ 2.500 x .150" wall Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42507
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top ring sets and round wire locks included
- ▶ Recommended piston clearance .0030" measured .850" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size	Over Size	Rod Length	Stroke	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
628000C-6	628000CE-6	3.633"	STD	6.058"	3.910"	1.215"	-16	66	8.5:1	Dish	382	46923-6
628004C-6	628004CE-6	3.637"	+.004"	6.058"	3.910"	1.215"	-16	66	8.5:1	Dish	385	46924-6
628014C-6	628014CE-6	3.647"	+.014"	6.058"	3.910"	1.215"	-16	66	8.5:1	Dish	389	46926-6
628100C-6	628100CE-6	3.633"	STD	6.058"	3.910"	1.215"	-10	66	9.0:1	Dish	384	46923-6
628104C-6	628104CE-6	3.637"	+.004"	6.058"	3.910"	1.215"	-10	66	9.0:1	Dish	388	46924-6
628114C-6	628114CE-6	3.647"	+.014"	6.058"	3.910"	1.215"	-10	66	9.0:1	Dish	393	46926-6

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Hyundai

• THETA I4 Genesis

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .150" wall Premium Chrome Moly pin included P/N 42251
- ▶ 9310 alloy .210" wall pin upgrades available P/N 42551
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top ring sets and round wire locks included
- ▶ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Hyundai Genesis Coupe 2.0L Turbo Theta I4										
616000C-4	86	STD	5.753"	86	1.181"	-2.5	9.3	Dish	325	46860-4
616005C-4	86.5	+5mm	5.753"	86	1.181"	-2.5	9.3	Dish	332	46865-4

Common Features

Crown Thickness: .225"
 Top Ring: 1.2mm, .250" down
 Second Ring: 1.2mm
 Oil Ring: 2.8mm

Pin Included: Standard Series: Premium Chrome Moly P/N 42251 (.150" wall, 96 grams, 2.250" long, 22mm dia.)
 Extreme Duty Series: 9310 Alloy P/N 42551 (.210" wall, 125 grams, 2.250" long, 22mm dia.)
 Round Wire Locks: P/N 42270

Mazda

• SPEED 3 MZR

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .150" wall Premium Chrome Moly pin (Standard Series) included P/N 42248
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42548
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top ring sets and round wire locks included
- ▶ Recommended piston clearance .0030" measured 1.100" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Mazda Speed 3 MZR 2.3L DISI Turbo												
630000C-4	630000CE-4	87.5	STD	5.927"	94	1.270"	-13.3	42	9.5	Dish	372	46875-4
630002C-4	630002CE-4	87.75	+25mm	5.927"	94	1.270"	-13.3	42	9.5	Dish	375	46877-4
630005C-4	630005CE-4	88	+5mm	5.927"	94	1.270"	-13.3	42	9.5	Dish	379	46880-4

Common Features

Crown Thickness: .225"
 Top Ring: 1.2mm, .250" down
 Second Ring: 1.2mm
 Oil Ring: 2.8mm

Pin Included: Standard Series: Premium Chrome Moly P/N 42248 (.150" wall, 100 grams, 2.250" long, 22.5mm dia.)
 Extreme Duty Series: 9310 Alloy P/N 42548 (.210" wall, 128 grams, 2.250" long, 22.5mm dia.)
 Round Wire Locks: P/N 42270

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Mitsubishi

- **4G63/4G63T 1st Gen 6 Bolt**
- **4G63/4G63T 2nd Gen 7 Bolt / EVO VIII, IX**

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .150" wall x 2.250" length Premium Chrome Moly pin (Standard Series) included
- ▶ .827"/21mm 6 bolt (P/N 42243) & .866"/22mm 7 bolt (P/N 42251)
- ▶ 9310 alloy .210" wall pin (Included with Extreme Duty Series – P/N 42543 for 6 bolt & P/N 42551 for 7 bolt)
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length mm	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
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Mitsubishi Eclipse GST/GSX-Eagle Talon TSi 90-93.5 (6 Bolt) - 4G63/4G63T

88mm STD STROKE (2.0L) DSM DSM

605000C-4	605000CE-4	85	STD	150	88	1.375"	-12	47	8.5	Dish	340	46850-4
605005C-4	605005CE-4	85.5	+5mm	150	88	1.375"	-12	47	8.5	Dish	344	46855-4
605010C-4	605010CE-4	86	+1.0mm	150	88	1.375"	-12	47	8.5	Dish	348	46860-4
605100C-4	605100CE-4	85	STD	150	88	1.375"	-8	47	9.0	Dish	349	46850-4
605105C-4	605105CE-4	85.5	+5mm	150	88	1.375"	-8	47	9.0	Dish	356	46855-4
605110C-4	605110CE-4	86	+1.0mm	150	88	1.375"	-8	47	9.0	Dish	365	46860-4

100mm STROKER (2.3L)

607005C-4	607005CE-4	85.5	+5mm	150	100	1.130"	-22	47	8.5	Dish	300	46855-4
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Mitsubishi Eclipse GST/GSX-Eagle Talon TSi 93.5-99 (7 Bolt) - 4G63/4G63T Evo VIII, IX 03-06 4G63T

88mm STD STROKE (2.0L) DSM/EVO DSM/EVO

606000C-4	606000CE-4	85	STD	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	337	46850-4
606005C-4	606005CE-4	85.5	+5mm	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	341	46855-4
606010C-4	606010CE-4	86	+1.0mm	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	345	46860-4
606015C-4	606015CE-4	86.5	+1.5mm	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	349	46865-4
606020C-4	606020CE-4	87	+2.0mm	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	354	46870-4
606100C-4	606100CE-4	85	STD	150	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	350	46850-4
606105C-4	606105CE-4	85.5	+5mm	150	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	355	46855-4
606110C-4	606110CE-4	86	+1.0mm	150	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	360	46860-4
606115C-4	606115CE-4	86.5	+1.5mm	150	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	365	46865-4
606120C-4	606120CE-4	87	+2.0mm	150	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	370	46870-4
606200C-4	606200CE-4	85	STD	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	339	46850-4
606205C-4	606205CE-4	85.5	+5mm	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	347	46855-4
606210C-4	606210CE-4	86	+1.0mm	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	355	46860-4
606215C-4	606215CE-4	86.5	+1.5mm	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	352	46865-4
606220C-4	606220CE-4	87	+2.0mm	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	360	46870-4
617000C-4	617000CE-4	85	STD	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	309	46850-4
617005C-4	617005CE-4	85.5	+5mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	314	46855-4
617010C-4	617010CE-4	86	+1.0mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	322	46860-4
617015C-4	617015CE-4	86.5	+1.5mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	323	46865-4
617020C-4	617020CE-4	87	+2.0mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	330	46870-4

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Mitsubishi

• 4G63/4G63T 2nd GEN 7 Bolt / EVO VIII, IX

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .150" wall x 2.250" length Premium Chrome Moly pin (Standard Series – P/N 42251) included .866"/22mm
- ▶ 9310 alloy .210" wall pin (Included with Extreme Duty Series – P/N 42551)
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length mm	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
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Mitsubishi Eclipse GST/GSX-Eagle Talon Tsi 93.5-99 (7 Bolt) - 4G63/4G63T Evo VIII, IX 03-06 4G63T

		94mm STROKER (2.1L)				DSM/EVO		DSM/EVO				
618000C-4	618000CE-4	85	STD	150	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	311	46850-4
618005C-4	618005CE-4	85.5	+.5mm	150	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	319	46855-4
618010C-4	618010CE-4	86	+1.0mm	150	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	327	46860-4
618015C-4	618015CE-4	86.5	+1.5mm	150	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	327	46865-4
618020C-4	618020CE-4	87	+2.0mm	150	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	334	46870-4
618200C-4	618200CE-4	85	STD	150	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	322	46850-4
618205C-4	618205CE-4	85.5	+.5mm	150	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	328	46855-4
618210C-4	618210CE-4	86	+1.0mm	150	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	342	46860-4
618215C-4	618215CE-4	86.5	+1.5mm	150	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	343	46865-4
618220C-4	618220CE-4	87	+2.0mm	150	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	344	46870-4
619000C-4	619000CE-4	85	STD	156	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	272	46850-4
619005C-4	619005CE-4	85.5	+.5mm	156	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	277	46855-4
619010C-4	619010CE-4	86	+1.0mm	156	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	287	46860-4
619015C-4	619015CE-4	86.5	+1.5mm	156	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	289	46865-4
619020C-4	619020CE-4	87	+2.0mm	156	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	296	46870-4
619200C-4	619200CE-4	85	STD	156	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	283	46850-4
619205C-4	619205CE-4	85.5	+.5mm	156	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	290	46855-4
619210C-4	619210CE-4	86	+1.0mm	156	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	293	46860-4
619215C-4	619215CE-4	86.5	+1.5mm	156	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	295	46865-4
619220C-4	619220CE-4	87	+2.0mm	156	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	302	46870-4

Mitsubishi Eclipse GST/GSX-Eagle Talon Tsi 93.5-99 (7 Bolt) - 4G63/4G63T Evo VIII, IX 03-06 4G63T

		100mm STROKER (2.3L)				DSM/EVO		DSM/EVO				
608000C-4	608000CE-4	85	STD	150	100	1.130"	-22	47 / 43	8.5 / 9.0	Dish	291	46850-4
608005C-4	608005CE-4	85.5	+.5mm	150	100	1.130"	-22	47 / 43	8.5 / 9.0	Dish	295	46855-4
608010C-4	608010CE-4	86	+1.0mm	150	100	1.130"	-22	47 / 43	8.5 / 9.0	Dish	299	46860-4
608015C-4	608015CE-4	86.5	+1.5mm	150	100	1.130"	-22	47 / 43	8.5 / 9.0	Dish	300	46865-4
608020C-4	608020CE-4	87	+2.0mm	150	100	1.130"	-22	47 / 43	8.5 / 9.0	Dish	307	46870-4
617000C-4	617000CE-4	85	STD	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	309	46850-4
617005C-4	617005CE-4	85.5	+.5mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	314	46855-4
617010C-4	617010CE-4	86	+1.0mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	322	46860-4
617015C-4	617015CE-4	86.5	+1.5mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	323	46865-4
617020C-4	617020CE-4	87	+2.0mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	330	46870-4

SEE PAGE 30 & 31 FOR CUSTOM PISTONS



PLATINUM SERIES PISTONS

Mitsubishi

• 4G63/4G63T 2nd GEN 7 Bolt / EVO VIII, IX Turbo Tuff® Design

- ▶ 2618 high strength material
- ▶ 2.250" x .250" wall 9310 alloy pin included P/N 42552
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Machined Struts
- ▶ Vertical Gas Ports designed for high HP Race Engines
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



PISTONS, RINGS, & PINS

Part No.	Bore Size mm	Over Size	Rod Length mm	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included RingSet
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Mitsubishi Eclipse GST/GSX-Eagle Talon Tsi 93.5-99 (7 Bolt) - 4G63/4G63T Evo VIII, IX 03-06 4G63T

88mm STD STROKE (2.0L) DSM/EVO DSM/EVO

606300CE-4	85	STD	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	363	46850-4
606305CE-4	85.5	+5mm	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	369	46855-4
606310CE-4	86	+1.0mm	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	375	46860-4
606400CE-4	85	STD	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	372	46850-4
606405CE-4	85.5	+5mm	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	376	46855-4
606410CE-4	86	+1.0mm	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	380	46860-4
617100CE-4	85	STD	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	327	46850-4
617102CE-4	85.25	+25mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	328	46852-4
617105CE-4	85.5	+5mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	329	46855-4
617110CE-4	86	+1.0mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	331	46860-4
617200CE-4	85	STD	156	88	1.130"	-2.5	47 / 43	10.0 / 10.5	Flat Top	331	46850-4
617202CE-4	85.25	+25mm	156	88	1.130"	-2.5	47 / 43	10.0 / 10.5	Flat Top	334	46852-4
617205CE-4	85.5	+5mm	156	88	1.130"	-2.5	47 / 43	10.0 / 10.5	Flat Top	335	46855-4
617210CE-4	86	+1.0mm	156	88	1.130"	-2.5	47 / 43	10.0 / 10.5	Flat Top	339	46860-4

Mitsubishi Eclipse GST/GSX-Eagle Talon Tsi 93.5-99 (7 Bolt) - 4G63/4G63T Evo VIII, IX 03-06 4G63T

100mm STROKER (2.3L) DSM/EVO DSM/EVO

617100CE-4	85	STD	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	327	46850-4
617102CE-4	85.25	+25mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	328	46852-4
617105CE-4	85.5	+5mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	329	46855-4
617110CE-4	86	+1.0mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	331	46860-4

Common Features

Crown Thickness: .320"
 Top Ring: 1.2mm, .350" down (606 series)
 .325" down (617 series)
 Second Ring: 1.2mm
 Oil Ring: 2.8mm

Valve Notches: .205" Int., 205" Exh.
 Pin Included: 9310 Alloy P/N 42552
 (.250" wall, 139 grams, 2.250" long, 22mm dia.)
 Round Wire Locks: P/N 42270

Note: New part numbers are **BOLD & ITALICIZED**

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Mitsubishi

• 4G64 w/ 4G63 Cylinder Head

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .150" wall x 2.250" length Premium Chrome Moly pin (Standard Series – P/N 42251) included .866"/22mm
- ▶ 9310 alloy .210" wall pin (Included with Extreme Duty Series – P/N 42551)
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length mm	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
Mitsubishi 4G64 w/ 4G63 Head 95-99												
88mm DE-STROKED (2.1L) DSM/EVO DSM/EVO												
606015C-4	606015CE-4	86.5	STD	156	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	349	46865-4
606020C-4	606020CE-4	87	+5mm	156	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	354	46870-4
606115C-4	606115CE-4	86.5	STD	156	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	365	46865-4
606120C-4	606120CE-4	87	+5mm	156	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	370	46870-4
606215C-4	606215CE-4	86.5	STD	156	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	352	46865-4
606220C-4	606220CE-4	87	+5mm	156	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	360	46870-4
617015C-4	617015CE-4	86.5	STD	162	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	323	46865-4
617020C-4	617020CE-4	87	+5mm	162	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	330	46870-4
94mm DE-STROKED (2.2L)												
618015C-4	618015CE-4	86.5	STD	156	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	327	46865-4
618020C-4	618020CE-4	87	+5mm	156	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	334	46870-4
618215C-4	618215CE-4	86.5	STD	156	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	343	46865-4
618220C-4	618220CE-4	87	+5mm	156	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	344	46870-4
619015C-4	619015CE-4	86.5	STD	162	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	289	46865-4
619020C-4	619020CE-4	87	+5mm	162	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	296	46870-4
619215C-4	619215CE-4	86.5	STD	162	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	295	46865-4
619220C-4	619220CE-4	87	+5mm	162	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	302	46870-4
100mm STD STROKE (2.4L)												
613000C-4	613000CE-4	86.5	STD	150	100	1.375"	-23.5	47 / 43	8.5 / 9.0	Dish	338	46865-4
613005C-4	613005CE-4	87	+5mm	150	100	1.375"	-23.5	47 / 43	8.5 / 9.0	Dish	346	46870-4
606015C-4	606015CE-4	86.5	STD	150	100	1.375"	-12	47 / 43	10.0 / 10.5	Dish	349	46865-4
606020C-4	606020CE-4	87	+5mm	150	100	1.375"	-12	47 / 43	10.0 / 10.5	Dish	354	46870-4
608015C-4	608015CE-4	86.5	STD	156	100	1.130"	-22	47 / 43	8.6 / 9.1	Dish	300	46865-4
608020C-4	608020CE-4	87	+5mm	156	100	1.130"	-22	47 / 43	8.6 / 9.1	Dish	307	46870-4
617015C-4	617015CE-4	86.5	STD	156	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	312	46865-4
617020C-4	617020CE-4	87	+5mm	156	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	320	46870-4

Mitsubishi

• 4B11T EVO X

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .180" wall x 2.250" length Premium Chrome Moly pin (Standard Series) included
- ▶ 9310 alloy .210" wall pin (Included with Extreme Duty Series)
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length mm	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
Mitsubishi EVO X 08-Up - 4B11T												
86mm STD STROKE (2.0L)												
614000C-4	614000CE-4	86	STD	143.66	86	1.313"	-5	49	9.0	Dish	337	46860-4
614005C-4	614005CE-4	86.5	+5mm	143.66	86	1.313"	-5	49	9.0	Dish	343	46865-4
614100C-4	614100CE-4	86	STD	143.66	86	1.313"	+2	49	10.0	Dome	360	46860-4
614105C-4	614105CE-4	86.5	+5mm	143.66	86	1.313"	+2	49	10.0	Dome	366	46865-4
94mm STROKER (2.2L)												
624000C-4	624000CE-4	86	STD	143.66	94	1.155"	-11	49	9.0	Dish	308	46860-4
624005C-4	624005CE-4	86.5	+5mm	143.66	94	1.155"	-11	49	9.0	Dish	315	46865-4
624100C-4	624100CE-4	86	STD	143.66	94	1.155"	-3.5	49	10.0	Dish	327	46860-4
624105C-4	624105CE-4	86.5	+5mm	143.66	94	1.155"	-3.5	49	10.0	Dish	333	46865-4

SEE PAGE 30 & 31 FOR CUSTOM PISTONS



PLATINUM SERIES PISTONS

Mitsubishi

• 4B11T EVO X Turbo Tuff® Design

- ▶ 2618 high strength material
- ▶ 2.250 x .210" wall 9310 alloy pin included P/N 42553
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Machined Struts
- ▶ Vertical Gas Ports designed for high HP Race Engines
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Part No.	Bore Size mm	Over Size	Rod Length mm	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
Mitsubishi Evo X 08-Up - 4B11T											
86mm STD STROKE (2.0L)											
614200CE-4	86	STD	143.66	86	1.313"	-5	49	9.0	Dish	373	46860-4
614205CE-4	86.5	+.5mm	143.66	86	1.313"	-5	49	9.0	Dish	379	46865-4
614300CE-4	86	STD	143.66	86	1.313"	+2	49	10.0	Dome	384	46860-4
614305CE-4	86.5	+.5mm	143.66	86	1.313"	+2	49	10.0	Dome	390	46865-4
94mm STROKER (2.2L)											
624200CE-4	86	STD	143.66	94	1.155"	-11	49	9.0	Dish	339	46860-4
624205CE-4	86.5	+.5mm	143.66	94	1.155"	-11	49	9.0	Dish	345	46865-4
624300CE-4	86	STD	143.66	94	1.155"	-3.5	49	10.0	Dish	345	46860-4
624305CE-4	86.5	+.5mm	143.66	94	1.155"	-3.5	49	10.0	Dish	351	46865-4

Common Features

Crown Thickness: .320"
 Top Ring: 1.2mm, .350" down
 Second Ring: 1.2mm
 Oil Ring: 2.8mm

Valve Notches: .175" Int., .175" Exh.
 Pin Included: 9310 Alloy P/N 42553
 (.210" wall, 132 grams, 2.250" long, 23mm dia.)
 Round Wire Locks: P/N 42262

Nissan

• SR20DE/DET

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .150" wall Premium Chrome Moly pin (Standard Series) included P/N 42251
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42551
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top ring sets and round wire locks included
- ▶ Recommended piston clearance: .0035" measured 1.100" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
Nissan 180SX/200SX/Sentra 2.0L SR20DE/DET 16V											
638000C-4	638000CE-4	86	STD	5.365"	86	1.260"	-12	9.0	Dish	335	46860-4
638002C-4	638002CE-4	86.25	+.25mm	5.365"	86	1.260"	-12	9.0	Dish	340	46862-4
638005C-4	638005CE-4	86.5	+.5mm	5.365"	86	1.260"	-12	9.0	Dish	345	46865-4
638010C-4	638010CE-4	87	+1.0mm	5.365"	86	1.260"	-12	9.0	Dish	350	46870-4

Common Features

Crown Thickness: .225"
 Top Ring: 1.2mm, .300" down
 Second Ring: 1.2mm
 Oil Ring: 2.8mm

Pin Included: Standard Series: Premium Chrome Moly P/N 42251
 (.150" wall, 96 grams, 2.250" long, 22mm dia.)
 Extreme Duty Series: 9310 Alloy P/N 42551
 (.210" wall, 125 grams, 2.250" long, 22mm dia.)
 Round Wire Locks: P/N 42270

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Nissan

• RB26DETT

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ .150" wall Premium Chrome Moly pin (Standard Series) included P/N 42243
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42543
- ▶ Pressure balance groove
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured .850" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Nissan Skyline 2.6L RB26DETT 24V (.827"/21mm x 2.250" Pin)												
73.7mm STD STROKE (2.6L)												
643002C-6	643002CE-6	86.25	+25mm	4.783"	73.7	1.181"	+20	66.5	9.0	Dome	390	47862-6
643005C-6	643005CE-6	86.50	+5mm	4.783"	73.7	1.181"	+20	66.5	9.0	Dome	393	47865-6
643007C-6	643007CE-6	86.75	+75mm	4.783"	73.7	1.181"	+20	66.5	9.0	Dome	396	47867-6
643010C-6	643010CE-6	87.00	+1.0mm	4.783"	73.7	1.181"	+20	66.5	9.0	Dome	399	47870-6
643012C-6	643012CE-6	87.25	+1.25mm	4.783"	73.7	1.181"	+20	66.5	9.0	Dome	402	47872-6
77.7mm STROKER (2.7L)												
643102C-6	643102CE-6	86.25	+25mm	4.783"	77.7	1.103"	+17	66.5	9.0	Dome	375	47862-6
643105C-6	643105CE-6	86.50	+5mm	4.783"	77.7	1.103"	+17	66.5	9.0	Dome	378	47865-6
643107C-6	643107CE-6	86.75	+75mm	4.783"	77.7	1.103"	+17	66.5	9.0	Dome	381	47867-6
643110C-6	643110CE-6	87.00	+1.0mm	4.783"	77.7	1.103"	+17	66.5	9.0	Dome	383	47870-6
643112C-6	643112CE-6	87.25	+1.25mm	4.783"	77.7	1.103"	+17	66.5	9.0	Dome	386	47872-6

Nissan

• VR30DDTT 2016-Up

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ .180" wall Premium Chrome Moly pin (Standard Series) or 9310 alloy .210" wall pin (Extreme Duty Series) included
- ▶ Pressure balance groove
- ▶ Premium Steel top rings with Napier seconds and round wire locks included



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Compression Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
642GR1-1*	642EGR1-1*	86.0 Grade 1	5.975"	86.0	1.157"	-3.5	10.0:1	Flat Top	326	46860-1
642GR2-1*	642EGR2-1*	86.0 Grade 2	5.975"	86.0	1.157"	-3.5	10.0:1	Flat Top	326	46860-1

* These pistons feature skirt diameters that correspond to the OEM Grade 1 or 2 bores resulting in a piston to wall clearance range of .0025" - .0034". Check the bore grades on the back of your block and order the appropriate quantities of Grade 1 or 2 pistons. (Sold as -1 individual pieces, not sets.)

Common Features

Crown Thickness: .250"
 Top Ring: 1.2mm, .260" down
 Second Ring: 1.2mm
 Oil Ring: 2.8mm

Pin Included: Standard Series: Premium Chrome Moly P/N 42353 (.180" wall, 119 grams, 2.250" long, 23mm dia.)
 Extreme Duty Series: 9310 Alloy P/N 42553 (.210" wall, 132 grams, 2.250" long, 23mm dia.)
 Round Wire Locks: P/N 42262

Nissan

• VQ35DE

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ .150" wall Premium Chrome Moly pin included P/N 42207
- ▶ 9310 alloy .210" wall pin upgrades available P/N 42507 (see page 33)
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top ring sets and round wire locks included
- ▶ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Compression Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Nissan 350Z, Maxima, Altima and Infiniti G35 2003-2007 (.866"/22mm x 2.500" Pin)											
623000C-6	95.50	STD	5.680"	81.4	1.167"	-12	57	8.5	Dish	386	46955-6
623002C-6	95.75	+25mm	5.680"	81.4	1.167"	-12	57	8.5	Dish	389	46957-6
623005C-6	96.00	+5mm	5.680"	81.4	1.167"	-12	57	8.5	Dish	393	46960-6
623010C-6	96.50	+1.0mm	5.680"	81.4	1.167"	-12	57	8.5	Dish	400	46965-6
623100C-6	95.50	STD	5.680"	81.4	1.167"	+7	57	11.0	Dome	418	46955-6
623102C-6	95.75	+25mm	5.680"	81.4	1.167"	+7	57	11.0	Dome	421	46957-6
623105C-6	96.00	+5mm	5.680"	81.4	1.167"	+7	57	11.0	Dome	425	46960-6
623110C-6	96.50	+1.0mm	5.680"	81.4	1.167"	+7	57	11.0	Dome	432	46965-6

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

Note: New part numbers are **BOLD & ITALICIZED**



PLATINUM SERIES PISTONS

Nissan GT-R VR38DETT 88.4mm & 94.4mm Strokes

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ .180" wall Premium Chrome Moly pin (Standard 625 Series) included
- ▶ .210" wall Premium Chrome Moly pin (Standard 633/634/635 Series) included
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42546
- ▶ Turbo Tuff/DLC .250" wall P/N 42745 and .300" wall P/N 42746 upgrades available
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top ring set with Napier second ring and 9-13 lb. tension oil ring included
- ▶ Round wire locks included



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Rod Length	Displacement	Comp Distance	Dome Vol (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
88.4mm STD STROKE										
625GR1-1*	625EGR1-1*	95.5 Grade 1	6.500"	3.8L	1.350"	-1.5	9.25	Flat Top	449	46956-1
625GR2-1*	625EGR2-1*	95.5 Grade 2	6.500"	3.8L	1.350"	-1.5	9.25	Flat Top	449	46956-1
625GR3-1*	625EGR3-1*	95.5 Grade 3	6.500"	3.8L	1.350"	-1.5	9.25	Flat Top	449	46956-1
634010C-6	634010CE-6	99.0	6.500"	4.08L	1.350"	-2	9.8	Flat Top	488	46990-6
94.4mm STROKER										
633GR1-1*	633EGR1-1*	95.5 Grade 1	6.500"	4.06L	1.232"	-1.5	9.8	Flat Top	423	46956-1
633GR2-1*	633EGR2-1*	95.5 Grade 2	6.500"	4.06L	1.232"	-1.5	9.8	Flat Top	423	46956-1
633GR3-1*	633EGR3-1*	95.5 Grade 3	6.500"	4.06L	1.232"	-1.5	9.8	Flat Top	423	46956-1
635010C-6	635010CE-6	99.0	6.500"	4.36L	1.232"	-7	9.8	Dish	460	46990-6
635015C-6	635015CE-6	99.5	6.500"	4.40L	1.232"	-7	9.9	Dish	465	46996-6

* These pistons feature skirt diameters that correspond to the OEM Grade 1, 2 or 3 bores resulting in a piston to wall clearance range of .0032" - .0039". Check the bore grades on the back of your block and order the appropriate quantities of Grade 1, 2 or 3 pistons. (Sold as -1 individual pieces, not sets.)

Common Features

- Crown Thickness: .260"
- Top Ring: 1.2mm, .260" down
- Second Ring: 1.2mm Napier profile
- Oil Ring: 3.0mm
- Intake Valve Notch: .065" / 1.65mm (625/633 Series)
- .105" / 2.67mm (634/635 Series)
- Round Wire Locks: P/N 42212

Pin Included:

- Standard 625 Series: Premium Chrome Moly P/N 42346 (.180" wall, 132 grams, 2.500" long, 23mm dia.)
- Standard 633/634/635 Series: Premium Chrome Moly P/N 42646 (.210" wall, 147 grams, 2.500" long, 23mm dia.)
- Extreme Duty Series: 9310 Alloy P/N 42546 (.210" wall, 147 grams, 2.500" long, 23mm dia.)

Recommended Piston Clearance:

- (625/633 Series) Grade Range 1, 2 or 3 Drop-In measured 1.100" from bottom of oil ring
- (634/635 Series) .0035" measured 1.100" from bottom of oil ring

Nissan GT-R VR38DETT 88.4mm Stock Stroke

Turbo Tuff Design for .990" Diameter Pins

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ .200"-.250" tapered wall .990" diam. Turbo Tuff/DLC pin included
- ▶ Asymmetrical skirt design
- ▶ Lateral gas ports (12 places)
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top ring set with Napier second ring and 9-13 lb. tension oil ring included
- ▶ Round wire locks included



Part No.	Bore Size mm	Rod Length	Stroke mm	Displacement	Comp Distance	Dome Vol (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
641000CE-6*	98.0	6.500"	88.4	4.08L	1.350"	-2	9.8	Flat Top	502	46980-6
641010CE-6*	99.0	6.500"	88.4	4.12L	1.350"	-2	9.9	Flat Top	519	46990-6

* These pistons are designed for use with Manley connecting rod P/N 15444-6 that are made for a .990" wrist pin size

Common Features

- Crown Thickness: .240"
- Top Ring: 1.2mm, .280" down
- Second Ring: 1.5mm Napier profile
- Oil Ring: 3.0mm
- Intake Valve Notch: .105" / 2.67mm

Round Wire Locks:

P/N 42245

Pin Included:

Turbo Tuff/DLC P/N 42747 (.200"-.250" wall, 188 grams, 2.500" long, .990" dia.)

Recommended Piston Clearance:

.0035" measured 1.100" from bottom of oil ring

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Subaru

• FA20 BRZ 2013-Up / FA20 WRX 2015-Up

- ▶ 2618 high strength material; Lightweight design
- ▶ 2.250" x .150" wall Premium Chrome Moly pin (Standard Series) included P/N 42251
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42551
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance: .003" for mildly boosted and .0035" for highly boosted measured .850" from the bottom of the oil ring



Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
SUBARU BRZ 2013-UP											
632600CA-1*	632600CEA-1*	86.00	STD	5.090"	86	1.285"	-11.4	10.0	Dish	329	46861DT-1
632600CB-1*	632600CEB-1*	86.00	STD	5.090"	86	1.285"	-11.4	10.0	Dish	329	46861DT-1
632601C-4	632601CE-4	86.10	+ .1mm	5.090"	86	1.285"	-11.4	10.0	Dish	330	46861DT-4
632602C-4	632602CE-4	86.25	+ .25mm	5.090"	86	1.285"	-11.4	10.0	Dish	331	46863DT-4
632605C-4	632605CE-4	86.50	+ .5mm	5.090"	86	1.285"	-11.4	10.0	Dish	334	46866DT-4
SUBARU WRX 2015-Up											
632700CA-1*	632700CEA-1*	86.00	STD	5.090"	86	1.285"	-13	10.0	Dish	340	46861DT-1
632700CB-1*	632700CEB-1*	86.00	STD	5.090"	86	1.285"	-13	10.0	Dish	340	46861DT-1
632701C-4	632701CE-4	86.10	+ .1mm	5.090"	86	1.285"	-13	10.0	Dish	341	46861DT-4
632702C-4	632702CE-4	86.25	+ .25mm	5.090"	86	1.285"	-13	10.0	Dish	350	46863DT-4
632705C-4	632705CE-4	86.50	+ .5mm	5.090"	86	1.285"	-13	10.0	Dish	353	46866DT-4

*These pistons feature skirt diameters that correspond to the OEM Grade A or B bores resulting in a piston to wall clearance range of .0023" - .0031". Check the bore grades on the top of your block and order the appropriate quantities of Grade A or B pistons. (Sold as -1 individual pieces, not sets.)

Subaru

• EJ205 WRX

- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ 2.500" x .180" wall Premium Chrome Moly pin (Standard Series) included P/N 42346
- ▶ 9310 alloy .210" wall pin (Extreme Duty Series) included P/N 42546
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance: .003" for mildly boosted and .0035" for highly boosted measured .850" (79mm stroke) and 1.100" (75mm stroke) from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Subaru WRX 1998-2005 - EJ205											
75mm STD STROKE (2.0L)											
615000C-4	615000CE-4	92.00	STD	5.137"	1.285"	-12	48	8.5	Dish	369	46920DT-4
615005C-4	615005CE-4	92.50	+ .5mm	5.137"	1.285"	-12	48	8.5	Dish	375	46925DT-4
615010C-4	615010CE-4	93.00	+1.0mm	5.137"	1.285"	-12	48	8.5	Dish	383	46930DT-4
79mm STROKER (2.1L)											
620000C-4	620000CE-4	92.00	STD	5.137"	1.209"	-16	48	8.5	Dish	355	46920DT-4
620005C-4	620005CE-4	92.50	+ .5mm	5.137"	1.209"	-16	48	8.5	Dish	361	46925DT-4
620010C-4	620010CE-4	93.00	+1.0mm	5.137"	1.209"	-16	48	8.5	Dish	370	46930DT-4

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Subaru

• EJ257 WRX STI



- ▶ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ▶ 2.500" x .180" wall Premium Chrome Moly pin (Standard Series) included P/N 42346
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance: .003" for mildly boosted and .0035" for highly boosted measured .850" (79/83mm stroke) and 1.100" (75mm stroke) from the bottom of the oil ring

Standard Part No.	Bore Size mm	Over Size	Rod Length	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
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Subaru WRX Sti 2004-up/WRX 2006-up - EJ257

75mm DE-STROKED (2.35L)

621000C-4	99.50	STD	5.137"	1.285"	-18	51	8.5	Dish	429	46995DT-4
621002C-4	99.75	+.25mm	5.137"	1.285"	-18	51	8.5	Dish	434	46997DT-4
621005C-4	100.00	+.5mm	5.137"	1.285"	-18	51	8.5	Dish	438	461000DT-4
621100C-4	99.50	STD	5.137"	1.285"	-6	51	9.8	Flat Top	462	46995DT-4
621102C-4	99.75	+.25mm	5.137"	1.285"	-6	51	9.8	Flat Top	465	46997DT-4
621105C-4	100.00	+.5mm	5.137"	1.285"	-6	51	9.8	Flat Top	469	461000DT-4

79mm STD STROKE (2.5L)

612000CA-1*	99.50 Grade A	STD	5.137"	1.209"	-22	51	8.5	Dish	395	46995DT-1
612000CB-1*	99.50 Grade B	STD	5.137"	1.209"	-22	51	8.5	Dish	395	46995DT-1
612000C-4	99.50	STD	5.137"	1.209"	-22	51	8.5	Dish	395	46995DT-4
612001C-4	99.55	+.05mm	5.137"	1.209"	-22	51	8.5	Dish	395	46995DT-4
612002C-4	99.75	+.25mm	5.137"	1.209"	-22	51	8.5	Dish	398	46997DT-4
612005C-4	100.00	+.5mm	5.137"	1.209"	-22	51	8.5	Dish	402	461000DT-4
612007C-4	100.25	+.75mm	5.137"	1.209"	-22	51	8.5	Dish	405	461002DT-4
612200CA-1*	99.50 Grade A	STD	5.137"	1.209"	-17	57	8.5	Dish	411	46995DT-1
612200CB-1*	99.50 Grade B	STD	5.137"	1.209"	-17	57	8.5	Dish	411	46995DT-1
612200C-4	99.50	STD	5.137"	1.209"	-17	57	8.5	Dish	411	46995DT-4
612201C-4	99.55	+.05mm	5.137"	1.209"	-17	57	8.5	Dish	412	46995DT-4
612202C-4	99.75	+.25mm	5.137"	1.209"	-17	57	8.5	Dish	414	46997DT-4
612205C-4	100.00	+.5mm	5.137"	1.209"	-17	57	8.5	Dish	420	461000DT-4
612207C-4	100.25	+.75mm	5.137"	1.209"	-17	57	8.5	Dish	423	461002DT-4
612100C-4	99.50	STD	5.137"	1.209"	-10	51	9.8	Dish	419	46995DT-4
612102C-4	99.75	+.25mm	5.137"	1.209"	-10	51	9.8	Dish	423	46997DT-4
612105C-4	100.00	+.5mm	5.137"	1.209"	-10	51	9.8	Dish	426	461000DT-4

83mm STROKER (2.7L)

622000C-4	99.50	STD	5.137"	1.130"	-26	51	8.5	Dish	379	46995DT-4
622002C-4	99.75	+.25mm	5.137"	1.130"	-26	51	8.5	Dish	383	46997DT-4
622005C-4	100.00	+.5mm	5.137"	1.130"	-26	51	8.5	Dish	386	461000DT-4
622100C-4	99.50	STD	5.137"	1.130"	-14	51	9.8	Dish	414	46995DT-4
622102C-4	99.75	+.25mm	5.137"	1.130"	-14	51	9.8	Dish	415	46997DT-4
622105C-4	100.00	+.5mm	5.137"	1.130"	-14	51	9.8	Dish	418	461000DT-4

All pistons on this page include Napier style second rings and higher tension oil rings for improved oil control

*These pistons feature skirt diameters that correspond to the OEM Grade A or B bores resulting in a piston to wall clearance range of .0023" - .0031". Check the bore grades on the top of your block and order the appropriate quantities of Grade A or B pistons. (Sold as -1 individual pieces, not sets.)

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

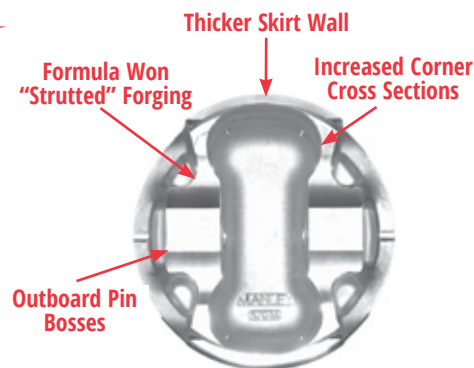
PLATINUM SERIES PISTONS

Subaru

• **EJ257 WRX STi 2004-Up**

Turbo Tuff® Design

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ 2.500" x .180" wall Premium Chrome Moly pin (Standard Series) included P/N 42346
- ▶ 9310 alloy .250" wall pin (Extreme Duty Series) included P/N 42547
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance: .003" for mildly boosted and .0035" for highly boosted measured .850" (79/83mm stroke) and 1.100" (75mm stroke) from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
75mm DE-STROKED (2.35L)											
632000C-4	632000CE-4	99.50	STD	5.137"	1.285"	-18	51	8.5	Dish	439	46995DT-4
632002C-4	632002CE-4	99.75	+.25mm	5.137"	1.285"	-18	51	8.5	Dish	444	46997DT-4
632005C-4	632005CE-4	100.00	+.5mm	5.137"	1.285"	-18	51	8.5	Dish	448	461000DT-4
632100C-4	632100CE-4	99.50	STD	5.137"	1.285"	-6	51	9.8	Flat Top	472	46995DT-4
632102C-4	632102CE-4	99.75	+.25mm	5.137"	1.285"	-6	51	9.8	Flat Top	475	46997DT-4
632105C-4	632105CE-4	100.00	+.5mm	5.137"	1.285"	-6	51	9.8	Flat Top	479	461000DT-4
79mm STD STROKE (2.5L)											
632200CA-1*	632200CEA-1*	99.50 Grade A	STD	5.137"	1.209"	-22	51	8.5	Dish	405	46995DT-1
632200CB-1*	632200CEB-1*	99.50 Grade B	STD	5.137"	1.209"	-22	51	8.5	Dish	405	46995DT-1
632200C-4	632200CE-4	99.50	STD	5.137"	1.209"	-22	51	8.5	Dish	405	46995DT-4
632201C-4	632201CE-4	99.55	+.05mm	5.137"	1.209"	-22	51	8.5	Dish	405	46995DT-4
632202C-4	632202CE-4	99.75	+.25mm	5.137"	1.209"	-22	51	8.5	Dish	408	46997DT-4
632205C-4	632205CE-4	100.00	+.5mm	5.137"	1.209"	-22	51	8.5	Dish	412	461000DT-4
632800CA-1*	632800CEA-1*	99.50 Grade A	STD	5.137"	1.209"	-17	57	8.5	Dish	417	46995DT-1
632800CB-1*	632800CEB-1*	99.50 Grade B	STD	5.137"	1.209"	-17	57	8.5	Dish	417	46995DT-1
632800C-4	632800CE-4	99.50	STD	5.137"	1.209"	-17	57	8.5	Dish	417	46995DT-4
632801C-4	632801CE-4	99.55	+.05mm	5.137"	1.209"	-17	57	8.5	Dish	419	46995DT-4
632802C-4	632802CE-4	99.75	+.25mm	5.137"	1.209"	-17	57	8.5	Dish	421	46997DT-4
632805C-4	632805CE-4	100.00	+.5mm	5.137"	1.209"	-17	57	8.5	Dish	423	461000DT-4
632300C-4	632300CE-4	99.50	STD	5.137"	1.209"	-10	51	9.8	Dish	429	46995DT-4
632302C-4	632302CE-4	99.75	+.25mm	5.137"	1.209"	-10	51	9.8	Dish	433	46997DT-4
632305C-4	632305CE-4	100.00	+.5mm	5.137"	1.209"	-10	51	9.8	Dish	436	461000DT-4
83mm STROKER (2.7L)											
632400C-4	632400CE-4	99.50	STD	5.137"	1.130"	-26	51	8.5	Dish	389	46995DT-4
632402C-4	632402CE-4	99.75	+.25mm	5.137"	1.130"	-26	51	8.5	Dish	393	46997DT-4
632405C-4	632405CE-4	100.00	+.5mm	5.137"	1.130"	-26	51	8.5	Dish	396	461000DT-4
632500C-4	632500CE-4	99.50	STD	5.137"	1.130"	-14	51	9.8	Dish	424	46995DT-4
632502C-4	632502CE-4	99.75	+.25mm	5.137"	1.130"	-14	51	9.8	Dish	425	46997DT-4
632505C-4	632505CE-4	100.00	+.5mm	5.137"	1.130"	-14	51	9.8	Dish	428	461000DT-4

All pistons on this page include Napier style second rings and higher tension oil rings for improved oil control

*These pistons feature skirt diameters that correspond to the OEM Grade A or B bores resulting in a piston to wall clearance range of .0023" - .0031". Check the bore grades on the top of your block and order the appropriate quantities of Grade A or B pistons. (Sold as -1 individual pieces, not sets.)

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Toyota 3UR-FE

• 3UR-FE 5.7L (2007-Up)

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ .210" wall Premium Chrome Moly pin (Standard Series) or 9310 alloy .210" wall pin (Extreme Duty Series) included
- ▶ Pressure balance groove
- ▶ Premium Steel top rings and round wire locks included
- ▶ Recommended piston clearance .0035" measured .850" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Toyota Tundra, Sequoia, Land Cruiser 200 Series and Lexus LX 570											
648000C-8	648000CE-8	94.0	STD	6.476"	102	1.328"	-14	12.5	Dish	407	46940-8
648100C-8	648100CE-8	94.0	STD	6.476"	102	1.328"	-30	10.0	Dish	387	46940-8
648102C-8	648102CE-8	94.25	+.25mm	6.476"	102	1.328"	-30	10.0	Dish	395	46942-8
648103C-8	648103CE-8	94.35	+.35mm	6.476"	102	1.328"	-30	10.0	Dish	396	46943-8
648105C-8	648105CE-8	94.5	+.5mm	6.476"	102	1.328"	-30	10.0	Dish	397	46945-8
648106C-8	648106CE-8	94.65	+.65mm	6.476"	102	1.328"	-30	10.0	Dish	399	46946-8
648200C-8	648200CE-8	94.0	STD	6.476"	102	1.328"	-24	11.0	Dish	390	46940-8
648202C-8	648202CE-8	94.25	+.25mm	6.476"	102	1.328"	-24	11.0	Dish	392	46942-8
648203C-8	648203CE-8	94.35	+.35mm	6.476"	102	1.328"	-24	11.0	Dish	394	46943-8
648205C-8	648205CE-8	94.5	+.5mm	6.476"	102	1.328"	-24	11.0	Dish	396	46945-8
648206C-8	648206CE-8	94.65	+.65mm	6.476"	102	1.328"	-24	11.0	Dish	400	46946-8

Common Features

Crown Thickness: .260"
 Top Ring: 1.2mm, .350" down
 Second Ring: 1.2mm
 Oil Ring: 3.0mm
 Max. Valve Sizes: 39.0mm Int./Exh.
 Valve Notches: .235" Int./Exh.

Pin Included: Standard Series: Premium Chrome Moly P/N 42451 (.210" wall, 125 grams, 2.250" long, 22mm dia.)
 Extreme Duty Series: 9310 Alloy P/N 42551 (.210" wall, 125 grams, 2.250" long, 22mm dia.)
 Round Wire Locks: P/N 42270

Toyota

• 2JZGTE

- ▶ 2618 high strength material
- ▶ Offset wrist pin for quiet start-ups
- ▶ .150" wall Premium Chrome Moly pin (Standard Series) or 9310 alloy .210" wall pin (Extreme Duty Series) included
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Standard Part No.	Extreme Duty Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
86mm STD STROKE (3.0L)												
609000C-6	609000CE-6	86.0	STD	5.590"	86	1.338"	-10	45	9.0	Dish	347	46861-6
609005C-6	609005CE-6	86.5	+.5mm	5.590"	86	1.338"	-10	45	9.0	Dish	353	46866-6
609015C-6	609015CE-6	87.0	+1.0mm	5.590"	86	1.338"	-10	45	9.0	Dish	359	46871-6
609100C-6	609100CE-6	86.0	STD	5.590"	86	1.338"	-2.5	45	10.0	Flat Top	347	46861-6
609105C-6	609105CE-6	86.5	+.5mm	5.590"	86	1.338"	-2.5	45	10.0	Flat Top	354	46866-6
609115C-6	609115CE-6	87.0	+1.0mm	5.590"	86	1.338"	-2.5	45	10.0	Flat Top	360	46871-6
94mm STROKER (3.4L)												
629100C-6	629100CE-6	86.0	STD	5.590"	94	1.180"	-16	45	9.0	Dish	315	46861-6
629105C-6	629105CE-6	86.5	+.5mm	5.590"	94	1.180"	-16	45	9.0	Dish	322	46866-6
629115C-6	629115CE-6	87.0	+1.0mm	5.590"	94	1.180"	-16	45	9.0	Dish	329	46871-6
629000C-6	629000CE-6	86.0	STD	5.590"	94	1.180"	-8	45	10.0	Dish	315	46861-6
629005C-6	629005CE-6	86.5	+.5mm	5.590"	94	1.180"	-8	45	10.0	Dish	322	46866-6
629015C-6	629015CE-6	87.0	+1.0mm	5.590"	94	1.180"	-8	45	10.0	Dish	328	46871-6

Common Features

Crown Thickness: .225"
 Top Ring: 1.2mm, .275" down Std. Stroke, .265" Stroker
 Second Ring: 1.5mm
 Oil Ring: 3.0mm
 Valve Notches: .240" Int., .225" Exh.

Pin Included: Standard Series: Premium Chrome Moly P/N 42251 (.150" wall, 96 grams, 2.250" long, 22mm dia.)
 Extreme Duty Series: 9310 Alloy P/N 42551 (.210" wall, 125 grams, 2.250" long, 22mm dia.)
 Round Wire Locks: P/N 42270 - .061" wide

Note: New part numbers are **BOLD & ITALICIZED**

SEE PAGE 30 & 31 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

Toyota

• 2JZGTE Turbo Tuff® Design

- ▶ 2618 high strength material
- ▶ 2.250 x .250" wall 9310 alloy pin included P/N 42552
- ▶ Pressure balance groove
- ▶ Will accommodate +1mm valve sizes
- ▶ Machined Struts
- ▶ Vertical Gas Ports designed for high HP Race Engines
- ▶ Premium Steel top rings with Napier seconds and round wire locks included
- ▶ Recommended piston clearance .0035" measured .850" from the bottom of the oil ring



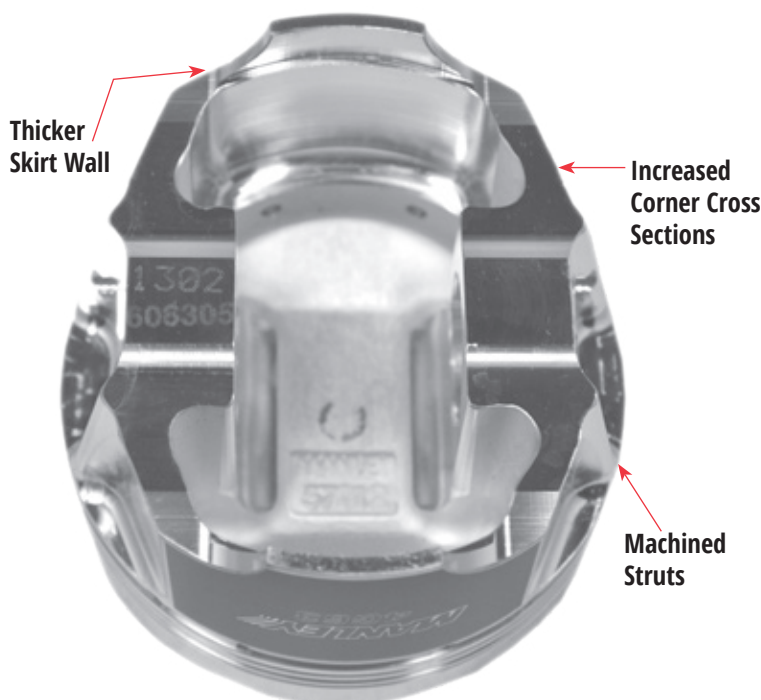
Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt/Gms	Included Ring Set
86mm STD STROKE (3.0L)											
609202CE-6	86.25	+.25mm	5.590"	86	1.328"	-8	45	9.0	Dish	368	47862-6
609205CE-6	86.50	+.5mm	5.590"	86	1.328"	-8	45	9.0	Dish	371	47865-6
609207CE-6	86.75	+.75mm	5.590"	86	1.328"	-8	45	9.0	Dish	374	47867-6
609210CE-6	87.00	+1.0mm	5.590"	86	1.328"	-8	45	9.0	Dish	377	47870-6
86mm STD STROKE (3.0L)											
609302CE-6	86.25	+.25mm	5.590"	86	1.328"	-1	45	10.0	Dome	377	47862-6
609305CE-6	86.50	+.5mm	5.590"	86	1.328"	-1	45	10.0	Dome	380	47865-6
609307CE-6	86.75	+.75mm	5.590"	86	1.328"	-1	45	10.0	Dome	383	47867-6
609310CE-6	87.00	+1.0mm	5.590"	86	1.328"	-1	45	10.0	Dome	386	47870-6
94mm STROKER (3.4L)											
629202CE-6	86.25	+.25mm	5.590"	94	1.170"	-14	45	9.0	Dish	340	47862-6
629205CE-6	86.50	+.5mm	5.590"	94	1.170"	-14	45	9.0	Dish	343	47865-6
629207CE-6	86.75	+.75mm	5.590"	94	1.170"	-14	45	9.0	Dish	346	47867-6
629210CE-6	87.00	+1.0mm	5.590"	94	1.170"	-14	45	9.0	Dish	349	47870-6
629302CE-6	86.25	+.25mm	5.590"	94	1.170"	-6	45	10.0	Dish	344	47862-6
629305CE-6	86.50	+.5mm	5.590"	94	1.170"	-6	45	10.0	Dish	347	47865-6
629307CE-6	86.75	+.75mm	5.590"	94	1.170"	-6	45	10.0	Dish	350	47867-6
629310CE-6	87.00	+1.0mm	5.590"	94	1.170"	-6	45	10.0	Dish	353	47870-6

Common Features

Crown Thickness: .320"
 Top Ring: 1.0mm, .315" down
 Second Ring: 1.2mm
 Oil Ring: 2.8mm

Valve Notches: .240" Int., .225" Exh.
 Pin Included: 9310 Alloy P/N 42552
 (.250" wall, 139 grams, 2.250" long, 22mm dia.)
 Round Wire Locks: P/N 42270

Turbo Tuff® Pistons



- **Increased Deck Thickness**
- **Vertical Gas Ports**
- **Increased Thickness Below Pin**
- **Pin Piers Machined To Accept Aluminum or Steel Rods**

SEE PAGE 30 & 31 FOR CUSTOM PISTONS



PLATINUM SERIES PISTONS

Platinum Pistons Incremental Sizes

Manley Performance will manufacture incremental bore sizes of any listed catalog piston with reasonably short lead times. The minimum quantity is one set.

The ordering process is as simple as 1 - 2 - 3 !

1. Select the catalog part number you wish manufactured with the singular exception of the final bore size.
2. Tell us the bore size of your block. We will manufacture the exact piston number you have selected with proper clearance for your stated block dimension.
3. You will be billed by our forging number, not the catalog part number.
4. Moly Skirt Coating is optional where available. Additional charge applies.
5. Chrome Moly pins included. Order upgraded pins separately if desired.

Custom Platinum Series Pistons

Manley Performance inventories the piston forgings listed below to manufacture custom pistons for original equipment engine producers, private label engine part suppliers and volume performance engine builders.

Custom Blank Billing Numbers

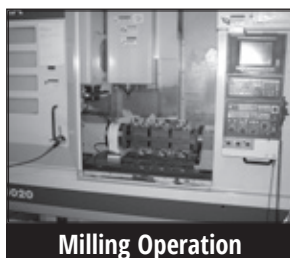
Part No.	Bore Range	Application	Type	Wrist Pin Length
581200-4 or 581200-6	80.5mm - 90mm	Ford, Honda/Acura, Hyundai, Mazda, Mitsubishi, Subaru, Toyota	Dish, Flat Top, Dome	2.250" - 2.500"
581700-4 or 581700-6	84mm - 90mm	Ford, Honda/Acura, Hyundai, Mazda, Mitsubishi, Subaru, Toyota	Dish, Flat Top, Dome	2.250" - 2.300"
588000SC-4 or 588000SC-6	87.5mm - 103mm	Ford, Nissan, Subaru	Dish, Flat Top, Dome	2.250" - 2.500"
582000-4 or 582000-6	87.5mm - 103mm	Nissan	Dish, Flat Top, Dome	2.250" - 2.500"
581600-4	98.5mm - 104mm	Subaru	Dish, Flat Top	2.300" - 2.500"
581400SC-4 or 581400SC-6	98.5mm - 108mm	Subaru	Dish, Flat Top	2.250" - 2.500"
581800SC-4 or 581800SC-6	98.5mm - 108mm	Nissan, Subaru, Toyota	Dish, Flat Top	2.250" - 2.500"
582100SC-4	99mm - 104mm	Subaru	Dish, Flat Top	2.250" - 2.500"

Optional Additional Cost Machining Operations

Part No.	Operation
04003-1	Fly Cut Shelf Stock Piston
04011-1	Internal Mill - Max. Lightening
04012-1	Gas Port - Vertical (Up to 12)
04013-1	Gas Port - Lateral (Up to 12)
04014-1	Anodize Top Ring Groove
04015-1	Ceramic Coat Top of Piston
04016-4	Moly Skirt Coating (4 cyl.)
04017-6	Moly Skirt Coating (6 cyl.)
04058	2 Week Rush Charge
04059	3 Week Rush Charge

Minimum Quantities For Custom Pistons

Minimum quantities depend on the variance from pistons we have previously produced, but in general, reasonably small numbers can be manufactured on a one time order basis. Please contact your Manley representative for more details.



Note: New part numbers are **BOLD & ITALICIZED**



Custom Piston Order Form

1960 Swarthmore Ave. Lakewood, NJ 08701

Phone (732) 905-3366 Fax (732) 905-3010

www.manleyperformance.com

CUSTOMER INFORMATION

Customer #: _____

Customer Name: _____

Date: _____

Purchase Order #: _____

Ship Via: _____

Quantity (pcs): _____

ENGINE/APPLICATION

Engine Make: _____ Model: _____

Cubic Inch/Liters: _____ No. of Cyl: _____

Application: Oval Drag Street

Induction: N/A Nitrous Blower/Turbo

Total Engine HP: _____ Max RPM: _____

Max Boost PSI: _____ Nitrous HP: _____

CUSTOM SPECIFICATION INFORMATION

Bore Size: _____ Comp. Hgt.: _____

Stroke: _____ Rod Length: _____

Rod Material: _____ P/E Width: _____

Rod Thickness Above Pin: _____

Deck Hgt.: _____ Deck Clearance: _____

Cyl. Bore Length: _____ Comp. Ratio: _____

Combustion Chamber Volume (cc): _____

Head Gasket - Thickness: _____ ID: _____

Piston Type: Flat Top Dish Dome

Dish/Dome Volume (cc): _____

Land Widths - 1st: _____ 2nd: _____ 3rd: _____

Purchasing Rings With Order: Yes No

Req. Axial Width - Top: _____ 2nd: _____ Oil: _____

Ring Type - Top: Moly AP Steel Gapless

2nd: Taper Face Napier Gapless

Oil (lbs.): _____

If not purchasing rings please provide:

Ring Axial Width - Top: _____ 2nd: _____ Oil: _____

Ring Radial Width - Top: _____ 2nd: _____ Oil: _____

Gas Ports: Yes No

If yes: Lateral Vertical No. of Gas Ports: _____

(Gas Ports are an additional charge)

Pins With Order: Yes No

(Chrome Moly Pins are included with pistons)

(9310 Material Pins are an additional charge)

Wrist Pin Material: Chrome Moly 9310

Pin Diameter: _____ Pin Length: _____

Wrist Pin Lock P/N: _____

(All locks ordered with pistons are NO CHARGE)

Number of Valves per Cylinder: _____

Valve Diam. - Int: _____ Exh: _____

Pocket Depth - Int: _____ Exh: _____

Pocket Angle - Int: _____ Exh: _____

Side Cut Style: Full Band Modified Full Band

Semi Band No Band

Crown Thickness Below Dish/Dome: _____

Skirt Wall Thickness: _____

Moly Skirt Coated: Yes No

(Additional Charge - Not Available on all Customs)

Ceramic Thermal Barrier Crown Coating

Yes No

(Additional Charge Applies)

Top Ring Groove Anodizing: Yes No

(Additional Charge Applies)

PISTON RINGS

Manley Piston Rings



Premium Steel Part No.	File Fit / Drop In	Ring Widths	Oil Ring Tension	
46810-4	81.0mm	File Fit	1.0mm x 1.2mm x 2.8mm	7-11 lbs.
46815-4	81.5mm	File Fit	1.0mm x 1.2mm x 2.8mm	7-11 lbs.
46826-10 *	82.5mm	File Fit	1.0mm x 1.2mm x 2.0mm	9-13 lbs.
46840-4	84.0mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46845-4	84.5mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46846-10 *	84.5mm	File Fit	1.0mm x 1.2mm x 2.0mm	9-13 lbs.
46846C-10* ****	84.5mm	File Fit	1.0mm x 1.2mm x 2.0mm	9-13 lbs.
46850-4*	85.0mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46852-4*	85.25mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46855-4*	85.5mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46860-4*	86.0mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46861-6*	86.0mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
46861DT-4 **	86.0mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
47862-6 ***	86.25mm	File Fit	1.0mm x 1.2mm x 2.8mm	7-10 lbs.
46862-4	86.25mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46863-6 *	86.25mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
46863DT-4 **	86.25mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
47865-6 ***	86.5mm	File Fit	1.0mm x 1.2mm x 2.8mm	7-10 lbs.
46865-4*	86.5mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46866-6*	86.5mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
46866DT-4 **	86.5mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
47867-6 ***	86.75mm	File Fit	1.0mm x 1.2mm x 2.8mm	7-10 lbs.
47870-6 ***	87.0mm	File Fit	1.0mm x 1.2mm x 2.8mm	7-10 lbs.
46870-4*	87.0mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46871-6*	87.0mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
47872-6 ***	87.25mm	File Fit	1.0mm x 1.2mm x 2.8mm	7-10 lbs.
46875-4	87.5mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46876-4	87.6mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46877-4	87.75mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46880-4	88.0mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46920-4*	92.0mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46920DT-4 **	92.0mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46923-6	92.3mm/3.633"	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
46924-6	92.4mm/3.637"	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
46925-4*	92.5mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46925DT-4 **	92.5mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46926-6	92.6mm/3.647"	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
46930-4*	93.0mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46930DT-4 **	93.0mm	File Fit	1.2mm x 1.2mm x 2.8mm	7-11 lbs.
46940-8	94mm	File Fit	1.2mm x 1.2mm x 3.0mm	9-13 lbs.
46942-8	94.25mm	File Fit	1.2mm x 1.2mm x 3.0mm	9-13 lbs.
46943-8	94.35mm	File Fit	1.2mm x 1.2mm x 3.0mm	9-13 lbs.
46945-8	94.5m	File Fit	1.2mm x 1.2mm x 3.0mm	9-13 lbs.
46946-8	94.65mm	File Fit	1.2mm x 1.2mm x 3.0mm	9-13 lbs.
46955-6	95.5mm	File Fit	1.2mm x 1.2mm x 3.0mm	7-11 lbs.
46956-6*	95.5mm	File Fit	1.2mm x 1.2mm x 3.0mm	9-13 lbs.
46957-6	95.7mm	Drop In Top / File Fit 2nd	1.2mm x 1.2mm x 3.0mm	7-11 lbs.
46960-6	96.0mm	File Fit	1.2mm x 1.2mm x 3.0mm	7-11 lbs.
46965-6	96.5mm	File Fit	1.2mm x 1.2mm x 3.0mm	7-11 lbs.
46980-6*	98.0mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
46990-6*	99.0mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
46995-4**	99.5mm/99.55mm	File Fit	1.2mm x 1.2mm x 2.0mm	9-13 lbs.
46995DT-4 **	99.5mm/99.55mm	File Fit	1.2mm x 1.2mm x 2.0mm	9-13 lbs.
46996-6 *	99.5mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
46997-4**	99.75mm	File Fit	1.2mm x 1.2mm x 2.0mm	9-13 lbs.
46997DT-4 **	99.75mm	File Fit	1.2mm x 1.2mm x 2.0mm	9-13 lbs.
46998-6*	99.75mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
461000-4**	100.0mm	File Fit	1.2mm x 1.2mm x 2.0mm	9-13 lbs.
461000DT-4 **	100.0mm	File Fit	1.2mm x 1.2mm x 2.0mm	9-13 lbs.
461002DT-4 **	100.25mm	File Fit	1.2mm x 1.2mm x 2.0mm	9-13 lbs.
461001-6	100.0mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
461003-6*	100.25mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
461004-6*	100.5mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
461005-6*	100.75mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
461006-6*	101.0mm	File Fit	1.2mm x 1.5mm x 3.0mm	9-13 lbs.
461010-6 *	101.0mm	File Fit	1.2mm x 1.2mm x 3.0mm	11-15 lbs.
461015-6 *	101.5mm	File Fit	1.2mm x 1.2mm x 3.0mm	11-15 lbs.
461017-6 *	101.75mm	File Fit	1.2mm x 1.2mm x 3.0mm	11-15 lbs.
461020-6 *	102.0mm	File Fit	1.2mm x 1.2mm x 3.0mm	11-15 lbs.
461025-6 *	102.5mm	File Fit	1.2mm x 1.2mm x 3.0mm	11-15 lbs.
461030-6 *	103.0mm	File Fit	1.2mm x 1.2mm x 3.0mm	11-15 lbs.

* Napier style second rings

** Napier style second rings and tabbed oil rails

*** NPR rings with Napier style second rings

**** Special coated rings for use in Nikasil coated cylinders and Napier style second rings

Note: New part numbers are **BOLD & ITALICIZED**

WRIST PIN & LOCKS

Wrist Pins

- ▶ Straight and taper wall construction
- ▶ Large O.D. chamfer pins requiring round wire locks
- ▶ Exacting size control and perfect concentricity
- ▶ Inside of each pin is totally free of tooling marks



Part No.	Quantity	Description	Diameter	Wall Type	Material	Length	Wall Thickness	Lock Rings	Wgt / Grams
42272-6	6 pcs.	Sport Compact	26mm/1.0236"	Straight	Premium Chrome Moly	2.300"	.200"	Tru Arc/Toyota Rnd Wire	152
42572-6	6 pcs.	Sport Compact	26mm/1.0236"	Straight	9310	2.300"	.250"	Tru Arc/Toyota Rnd Wire	178
42747-6	6 pcs.	Sport Compact	.990"	Taper	Turbo Tuff/DLC	2.500"	.200"-.250"	Round Wire	188
42647-4	4 pcs.	Sport Compact	23.05mm / .9075"	Straight	Premium Chrome Moly	2.500"	.210"	Tru Arc/Subaru Rnd Wire	147
42660-4	4 pcs.	Sport Compact	23.05mm / .9075"	Straight	9310	2.300"	.250"	Tru Arc/Subaru Rnd Wire	152
42346-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.500"	.180"	Tru Arc/Subaru Rnd Wire	132
42546-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	9310	2.500"	.210"	Tru Arc/Subaru Rnd Wire	147
42646-6	6 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.500"	.210"	Tru Arc/Subaru Rnd Wire	147
42445-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.500"	.250"	Tru Arc/Subaru Rnd Wire	165
42547-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	9310	2.500"	.250"	Tru Arc/Subaru Rnd Wire	165
42745-6	6 pcs.	Sport Compact	23mm / .9055"	Straight	Turbo Tuff/DLC	2.500"	.250"	Tru Arc/Subaru Rnd Wire	170
42746-6	6 pcs.	Sport Compact	23mm / .9055"	Straight	Turbo Tuff/DLC	2.500"	.300"	Tru Arc/Subaru Rnd Wire	188
42359-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.300"	.180"	Tru Arc/Subaru Rnd Wire	121
42659-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	9310	2.300"	.250"	Tru Arc/Subaru Rnd Wire	152
42353-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	Premium Chrome Moly	2.250"	.180"	Round Wire	119
42553-4	4 pcs.	Sport Compact	23mm / .9055"	Straight	9310	2.250"	.210"	Round Wire	132
42248-4	4 pcs.	Sport Compact	22.5mm / .8858"	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	100
42548-4	4 pcs.	Sport Compact	22.5mm / .8858"	Straight	9310	2.250"	.210"	Round Wire	128
42648-4	4 pcs.	Sport Compact	22.5mm / .8858"	Straight	9310	2.250"	.250"	Round Wire	141
42225-4	4 pcs.	Sport Compact	22mm / .866"	Straight	Premium Chrome Moly	2.250"	.120"	Round Wire	79
42251-4	4 pcs.	Sport Compact	22mm / .866"	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	96
42451-4	4 pcs.	Sport Compact	22mm / .866"	Straight	Premium Chrome Moly	2.250"	.210"	Round Wire	125
42551-4	4 pcs.	Sport Compact	22mm / .866"	Straight	9310	2.250"	.210"	Round Wire	125
42552-4	4 pcs.	Sport Compact	22mm / .866"	Straight	9310	2.250"	.250"	Round Wire	139
42651-4	4 pcs.	Sport Compact	22mm / .866"	Straight	9310	2.250"	.300"	Round Wire	153
42207-6	6 pcs.	Sport Compact	22mm / .866"	Straight	Premium Chrome Moly	2.500"	.150"	Round Wire	106
42407-6	6 pcs.	Sport Compact	22mm / .866"	Straight	Premium Chrome Moly	2.500"	.210"	Round Wire	138
42507-6	6 pcs.	Sport Compact	22mm / .866"	Straight	9310	2.500"	.210"	Round Wire	138
42607-6	6 pcs.	Sport Compact	22mm / .866"	Straight	9310	2.500"	.300"	Round Wire	170
42243-4	4 pcs.	Sport Compact	21mm / .827"	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	91
42543-4	4 pcs.	Sport Compact	21mm / .827"	Straight	9310	2.250"	.210"	Round Wire	117
42232-6	6 pcs.	Sport Compact	20mm / .787"	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	87
42532-6	6 pcs.	Sport Compact	20mm / .787"	Straight	9310	2.250"	.210"	Round Wire	109
42632-6	6 pcs.	Sport Compact	20mm / .787"	Straight	H-13	2.250"	.250"	Round Wire	119

Part numbers 42207, 42407, 42507 and 42607 are also available for 4 cylinder applications by changing the part number from a (-6) to a (-4)
 Part numbers 42646, 42745 and 42746 are also available for 4 cylinder applications by changing the part number from a (-6) to a (-4)
 Part numbers 42251, 42451, 42551 and 42651 are also available for 6 cylinder applications by changing the part number from a (-4) to a (-6)
 Part number 42532 and 42632 is also available for 10 cylinder applications by changing the part number from a (-6) to a (-10)

Wrist Pin Locks

Part No.	Quantity	Type	Pin Diameter	Description	Weight / Grams Per Lock
42245-12	12 pcs.	.061" Round Wire	.990"	Nissan GT-R w/ .990" pin	1.0
42212-8	8 pcs.	.054" Round Wire	23mm / .9055"	Factory Style Subaru	1.0
42262-8	8 pcs.	.061" Round Wire	23mm / .9055"	Mitsubishi EVO X	1.0
42270-8	8 pcs.	.061" Round Wire	21mm / .827", 22mm / .866"	Sport Compact	0.8
42255-12	12 pcs.	.050" Round Wire	20mm / .7869"	Sport Compact	0.6

Part number 42270 is also available for 6 cylinder applications by changing the part number from a (-8) to a (-12)
 Part number 42255 is also available for 10 cylinder applications by changing the part number from a (-12) to a (-20)

Groove Lock Spacers

Should your custom Platinum Piston requirements necessitate the wrist pin hole break into the oil ring groove, we can widen the oil ring groove and incorporate a groove lock spacer in one of the following sizes listed below. Manley radial tension design ("RTD") groove lock spacers have replaced the old-school, dimpled style pieces. Our pistons requiring G/L spacers are manufactured with a "receiver groove" within the oil ring groove where the RTD G/L spacers snap into place. The radial tension prevents rotation.

Part No.	Quantity	Bore Size	Oil Ring Width	Gram Weight Per Spacer
462458-4	4 pcs.	85mm to 85.5mm	2.8mm	5.4
462459-4	4 pcs.	86mm to 86.75mm	2.8mm	5.5
462460-4	4 pcs.	87mm	2.8mm	5.2
46393-6	6 pcs.	3.633" to 3.647"	3mm	6.5
462248-6	6 pcs.	95.5mm to 96.5mm	3mm	6.9
461874-6	6 pcs.	98mm	3mm	7.1
461873-6	6 pcs.	99mm	3mm	7.1
461872-6	6 pcs.	100mm	3mm	6.0

Note: New part numbers are **BOLD & ITALICIZED**

STEEL CONNECTING RODS

Acura / Audi / BMW / Dodge / Ford / Honda

H-Beam Rods

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% individually magnafluxed
- ▶ Weight matched sets \pm 1.5 grams
- ▶ Cap fasteners are 3/8" ARP 2000 except part number 14017 which is supplied with 7/16" ARP 8740
- ▶ Flywheel horsepower range for these rods in a 4 cylinder application is 600+ and for a 6 cylinder application the range is 800+



Note: Part number 14017 is also available with 7/16" ARP 2000 cap screws yielding a 1100+ horsepower rating. Affix "R" after the rod part number (14017R-6)

Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin Diameter	Pin Bore	Avg. Gram Weight
ACURA							
14014-4	RSX 2.0L V-Tec DOHC K20 2002-up	5.472"	2.008"	.780"	.866" (22mm)	.8671"	525
14025-4	Integra LS 1.8 non V-Tec DOHC (B18A, B18B, B20B, B20Z 1990-up)	5.394"	1.890"	.935"	.827" (21mm)	.8281"	515
14026-4	Integra GSR 1.8 V-Tec DOHC (B18C 1994-up)	5.433"	1.890"	.858"	.827" (21mm)	.8281"	500
14013-4*	D16 (all) & ZC	5.394"	1.890"	.898"	.748" (19mm)	.7491"	525
AUDI							
14007-4	1.8L Turbo	5.669"	1.992"	.980"	.787" (20mm)	.7881"	580
BMW							
14078-6	N54B30 (2006-2016)	5.709"	2.110"	.823"	.866" (22mm)	.8671"	570
14079-6	N55/S55 (2009-up)	5.683"	2.110"	.823"	.866" (22mm)	.8671"	565
DODGE							
14004-4	Neon SOHC/DOHC 2.0L 420A	5.472"	2.008"	1.031"	.827" (21mm)	.8281"	570
14010-4	Neon SRT-4 2.4L I4 DOHC	5.945"	2.087"	1.015"	.866" (22mm)	.8671"	595
FORD							
14080-4	EcoBoost 2.0L	6.136"	2.167"	.860"	.886" (22.5mm)	.8868"	590
14081-4	EcoBoost 2.3L	5.875"	2.167"	.860"	.886" (22.5mm)	.8868"	585
14017-6	BA Falcon XR6 Turbo 4.0L	6.058"	2.239"	.990"	.866" (22mm)	.8671"	645
HONDA							
14012-4	1.6L V-Tec DOHC B16A 1992-up	5.290"	1.890"	.935"	.827" (21mm)	.8281"	535
14013-4*	D16 (all) & ZC	5.394"	1.890"	.898"	.748" (19mm)	.7491"	525
14025-4	CR-V 2.0L DOHC (B20B/B20Z 1996-2001)	5.394"	1.890"	.935"	.827" (21mm)	.8281"	515
14015-4	CR-V 2.4L V-Tec DOHC K24 2002-up	5.984"	2.008"	.780"	.866" (22mm)	.8671"	545
14016-4	Prelude 2.2L V-Tec DOHC H22 1992-up	5.636"	2.008"	.935"	.866" (22mm)	.8671"	550

* Honda D16 may require some minor clearancing at the base of the cylinder walls. This is more common with older ZC, D16A and D16Z6 blocks.

Note: Single replacement connecting rod pieces are also available. Simply order your part number with a -1 suffix.

Private brand identification available

**Also available in H-Tuff/H-Tuff Plus design, see page 36

STEEL CONNECTING RODS

Mazda / Mitsubishi / Nissan / Subaru Toyota / Volkswagen

H-Beam Rods

- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% individually magnafluxed
- ▶ Weight matched sets \pm 1.5 grams
- ▶ Cap fasteners are 3/8" ARP 2000 except P/N 14018 which is supplied with 7/16" ARP 8740
- ▶ Flywheel horsepower range for these rods in a 4 cylinder application is 600+ and for a 6 cylinder application the range is 800+



Note: Part number 14018 is also available with 7/16" ARP 2000 cap screws yielding a 1100+ horsepower rating. Affix "R" after the rod part number (14018R-6)

Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin Diameter	Pin Bore	Avg. Gram Weight
MAZDA							
14011-4	Miata B6/BP 1.6 & 1.8L	5.233"	1.890"	.860"	.787" (20mm)	.7881"	535
14030-4	Mazda Speed 3 MZR 2.3L DISI Turbo	5.927"	2.166"	.859"	.866" (22mm)	.8671"	610
14032-4**	Mazda Speed 3 MZR 2.3L DISI Turbo	5.927"	2.166"	.859"	.886" (22.5mm)	.8868"	610
MITSUBISHI							
14021-4	Eclipse GS, GST, GSX & Eagle Talon TSi 2.0 (6 Bolt 4G63, 4G63T 1990-1993.5) Recommended bearings to be used: ACL 4B1146/H or Clevite® CB-1120AL	5.905"	1.890"	1.115"	.827" (21mm)	.8281"	550
14002-4	Eclipse GS, GST, GSX & Eagle Talon TSi 2.0 (6 Bolt 4G63, 4G63T 1990-1993.5) Recommended bearings to be used: ACL 4B1146/H or Clevite® CB-1120AL	5.905"	1.890"	1.115"	.866" (22mm)	.8671"	550
14022-4*	Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Evolution VIII, IX (4G63T 2003-2006) Recommended bearings to be used: ACL 4B1185/H or Clevite® CB-1643P	5.905"	1.890"	1.038"	.866" (22mm)	.8671"	580
14020-4*	Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Evolution VIII, IX (4G63T 2003-2006)	6.142" .237" / 6mm Longer	1.890"	1.038"	.866" (22mm)	.8671"	545
14029-4*	EVO X 4B11T (2008-Up)	5.656"	2.165"	.860"	.9055" (23mm)	.9063"	535
NISSAN							
14023-4	2.0 SR20DE, SR20DET (1991-2002)	5.365"	2.008"	.900"	.866" (22mm)	.8671"	505
14006-4	KA24E (1989-1990), KA24DE (1991-1998), 240SX	6.495"	2.086"	.973"	.827" (21mm)	.8281"	615
14000-6	Patrol 4.8 TB48	6.435"	2.362"	1.290"	.9055" (23mm)	.9063"	820
14028-6	RB25DE(T), RB26DETT (Stock 21mm pin)	4.783"	2.008"	.857"	.827" (21mm)	.8281"	490
14018-6	RB30E/T	5.995"	2.087"	.856"	.827" (21mm)	.8281"	610
14019-6	VQ35DE(T) (2002-Up Altima/Maxima and 2003-Up 350Z)	5.680"	2.165"	.820"	.866" (22mm)	.8671"	525
SUBARU							
14024-4*	WRX EJ205/Sti EJ257	5.137"	2.165"	.840"	.9055" (23mm)	.9063"	555
TOYOTA							
14008-4	Celica 1986-1999, MR2 1990-1999 3S-GTE DOHC	5.428"	2.008"	1.055"	.866" (22mm)	.8671"	565
14005-6	Land Cruiser 4.5 1FZ-FE (1993-1998)	6.061"	2.384"	1.096"	1.0236" (26mm)	1.0245"	800
14027-6*	Supra 3.0 2JZG (1993-1998)	5.590"	2.167"	1.015"	.866" (22mm)	.8671"	605
VOLKSWAGEN							
14007-4	1.8L Turbo	5.669"	1.992"	.980"	.787" (20mm)	.7881"	580

Note: Single replacement connecting rod pieces are also available. Simply order your part number with a -1 suffix.

Private brand identification available

*Also available in H-Tuff/H-Tuff Plus design, see page 36

STEEL CONNECTING RODS

Mazda / Mitsubishi / Subaru / Toyota

H-Tuff & H-Tuff Plus Rods



- ▶ Manufactured from 4340 forgings
- ▶ Heat treated, stress relieved, shot peened and 100% individually magnafluxed
- ▶ Weight matched sets ± 1.5 grams
- ▶ Cap fasteners are 3/8" ARP 2000 for the H-Tuff and 3/8" ARP Custom Age 625+ for the H-Tuff Plus
- ▶ Flywheel horsepower range for these rods in a 4 cylinder application is 750 with the ARP 2000 bolts and 950 with ARP 625+ bolts. In a 6 cylinder application the horsepower range is 1000 with the ARP 2000 bolts and 1200 with the ARP 625+ bolts.

H-Tuff Part No.	H-Tuff Plus Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin Diameter	Pin Bore	Avg. Gram Weight
MAZDA								
15032-4	15032R6-4	Mazda Speed 3 MZR 2.3L DISI Turbo	5.927"	2.166"	.859"	.886" (22.5mm)	.8868"	640
15038-4	15038R6-4	Mazda Speed 3 MZR 2.5L DISI Turbo	5.976"	2.166"	.859"	.886" (22.5mm)	.8868"	645
MITSUBISHI								
15022-4	15022R6-4	Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Evolution VIII, IX (4G63T 2003-2006) Recommended bearings to be used: ACL 4B1185/H or Clevite® CB-1643P	5.905"	1.890"	1.038"	.866" (22mm)	.8671"	635
15020-4	15020R6-4	Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Evolution VIII, IX (4G63T 2003-2006) .237" / 6mm Longer	6.142"	1.890"	1.038"	.866" (22mm)	.8671"	635
15029-4	15029R6-4	EVO X 4B11T (2008-Up)	5.656"	2.165"	.860"	.9055" (23mm)	.9063"	620
SUBARU								
15084-4	15084R6-4	FA20 BRZ 2.0L 2013-Up/WRX 2015-Up	5.090"	2.087"	.843"	.866" (22mm)	.8671"	605
15024-4	15024R6-4	WRX EJ205/STI EJ257	5.137"	2.165"	.840"	.9055" (23mm)	.9063"	575
15036-4	15036R6-4	WRX EJ205/STI EJ257 .079" / 2mm Longer	5.216"	2.165"	.840"	.9055" (23mm)	.9063"	580
TOYOTA								
15084-4	15084R6-4	Scion FR-S 2.0L	5.090"	2.087"	.843"	.866" (22mm)	.8671"	605
15027-6	15027R6-6	Supra 3.0 2JZG (1993-1998)	5.590"	2.167"	1.015"	.866" (22mm)	.8671"	645

Note: Single replacement connecting rod pieces are also available. Simply order your part number with a -1 suffix.

Private brand identification available



• Bridges the gap between our standard, proven H-Beams and top of the line, best of the best Turbo Tuff® Series rods

- H-Tuff delivers a stronger rod with greater safety margin to handle elevated boost and higher power levels for a modest price premium over standard H-Beams
- H-Tuff design incorporates wider beam and increased cross-sectional thickness in critical areas

Note: New part numbers are **BOLD & ITALICIZED**

STEEL CONNECTING RODS

Acura / Audi / BMW / Dodge / Ford Honda / Hyundai / Lamborghini

Pro Series I-Beam Turbo Tuff® Rods

- ▶ Forged from 4340 aircraft quality vacuum degassed material
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Specifically designed to handle high horsepower applications when using turbos and/or nitrous
- ▶ Fasteners are 3/8" except P/N 14427 which is supplied with 7/16" fasteners
- ▶ Flywheel horsepower range for these rods in a 4 cylinder application is 1,000+, for a 6 cylinder application the range is 1,250+ and for a 10 cylinder application the range is 1,500+
- ▶ Flywheel horsepower range for the 300M rod is 2,000+



ARP 2000 Part No.	ARP 625+ Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin Diameter	Pin Bore	Avg. Gram Weight
ACURA								
14404-4	14404R6-4	RSX 2.0 V-Tec DOHC (K20 2002-up)	5.472"	2.008"	.780"	.866" (22mm)	.8671"	575
14412-4	14412R6-4	Integra LS 1.8 non V-Tec DOHC (B18A, B18B, B20B, B20Z 1990-up)	5.394"	1.890"	.935"	.827" (21mm)	.8281"	575
14414-4	14414R6-4	Integra GSR 1.8 V-Tec DOHC (B18C 1994-up)	5.433"	1.890"	.858"	.827" (21mm)	.8281"	565
AUDI								
14435-10	14435R6-10	Audi R8 5.2L FSI (2009-up)	6.063"	2.236"	.764"	.787" (20mm)	.7881"	615
15435-10	15435R6-10	Audi R8 5.2L FSI (2009-up) 300M alloy	6.063"	2.236"	.764"	.787" (20mm)	.7881"	615
BMW								
14448-6	14448R6-6	N54B30 (2006-2016)	5.709"	2.110"	.823"	.866" (22mm)	.8671"	560
14449-6	14449R6-6	N55/S55 (2009-up)	5.683"	2.110"	.823"	.866" (22mm)	.8671"	555
DODGE								
14420-4	14420R6-4	Neon SRT-4 2.4 I4 DOHC	5.945"	2.087"	1.015"	.866" (22mm)	.8671"	695
FORD								
14433-4	14433R6-4	EcoBoost 2.0L	6.136"	2.167"	.860"	.886" (22.5mm)	.8868"	615
14434-4	14434R6-4	EcoBoost 2.3L	5.875"	2.167"	.860"	.886" (22.5mm)	.8868"	585
14427-6	14427R6-6	BA Falcon XR6 Turbo 4.0L	6.058"	2.239"	.990"	.866" (22mm)	.8671"	690
15527-6	15527R6-6	BA Falcon XR6 Turbo 4.0L 300M alloy Heavyweight design	6.058"	2.239"	.990"	.866" (22mm)	.8671"	760
HONDA								
14415-4	14415R6-4	1.6 V-Tec DOHC (B16A 1992-up)	5.290"	1.890"	.935"	.827" (21mm)	.8281"	580
14412-4	14412R6-4	CR-V 2.0L DOHC (B20B/B20Z 1996-2001)	5.394"	1.890"	.935"	.827" (21mm)	.8281"	575
14405-4	14405R6-4	CR-V 2.4 V-Tec DOHC (K24 2002-up)	5.984"	2.008"	.780"	.866" (22mm)	.8671"	610
14417-4	14417R6-4	Prelude 2.2 V-Tec DOHC (H22 1992-up)	5.636"	2.008"	.935"	.866" (22mm)	.8671"	570
HYUNDAI								
14410-4	14410R6-4	Genesis Coupe 2.0L Turbo Theta I4	5.753"	2.008"	.860"	.866" (22mm)	.8671"	630
LAMBORGHINI								
14435-10	14435R6-10	Lamborghini Gallardo/Huracán 5.2L FSI (2008-up)	6.063"	2.236"	.764"	.787" (20mm)	.7881"	615
15435-10	15435R6-10	Lamborghini Gallardo/Huracán 5.2L FSI (2008-up) 300M alloy	6.063"	2.236"	.764"	.787" (20mm)	.7881"	615

Note: Single replacement connecting rod pieces are also available. Simply order your part number with a -1 suffix.

Note: New part numbers are **BOLD & ITALICIZED**

STEEL CONNECTING RODS

Mazda / Mitsubishi / Nissan

Pro Series I-Beam Turbo Tuff® Rods



- ▶ Forged from 4340 aircraft quality vacuum degassed material (P/N's 15403, 15424, 15444 and 15524 are made from 300M alloy)
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Specifically designed to handle high horsepower applications when using turbos and/or nitrous
- ▶ Fasteners are 3/8" except P/N's 14424, 14428, 15424, 15444 and 15524 are supplied with 7/16" fasteners
- ▶ Flywheel horsepower range for these 4340 rods in a 4 cylinder application is 1,000+ and for a 6 cylinder application the range is 1,250+
- ▶ Flywheel horsepower range for these 300M rods in a 4 cylinder application is 1,400+ and for a 6 cylinder application the range is 1,600+ (15424) and 2,000+ (15444/15524)

ARP 2000 Part No.	ARP 625+ Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin Diameter	Pin Bore	Avg. Gram Weight
MAZDA								
14430-4	14430R6-4	Mazda Speed 3 MZR 2.3L DISI Turbo	5.927"	2.166"	.859"	.866" (22mm)	.8671"	605
14432-4	14432R6-4	Mazda Speed 3 MZR 2.3L DISI Turbo	5.927"	2.166"	.859"	.886" (22.5mm)	.8868"	600
MITSUBISHI								
14413-4	14413R6-4	Eclipse GS, GST, GSX & Eagle Talon TSi 2.0 (6 Bolt 4G63, 4G63T 1990-1993.5)	5.905"	1.890"	1.115"	.827" (21mm)	.8281"	650
14407-4	14407R6-4	Eclipse GS, GST, GSX & Eagle Talon TSi 2.0 (6 Bolt 4G63, 4G63T 1990-1993.5)	5.905"	1.890"	1.115"	.866" (22mm)	.8671"	645
14426-4	14426R6-4	Eclipse GS, GST, GSX & Eagle Talon TSi 2.0 (6 Bolt 4G63, 4G63T 1990-1993.5)	6.142" .237" / 6mm Longer	1.890"	1.115"	.866" (22mm)	.8671"	660
14403-4	14403R6-4	Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Evolution VIII, IX (4G63T 2003-2006)	5.905"	1.890"	1.038"	.866" (22mm)	.8671"	630
15403-4	15403R6-4	Same as the 14403 except made from 300M alloy	5.905"	1.890"	1.038"	.866" (22mm)	.8671"	675
14400-4	14400R6-4	Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Evolution VIII, IX (4G63T 2003-2006) Stroker, lighter weight straight beam design.	5.905"	1.890"	1.038"	.866" (22mm)	.8671"	625
14421-4	14421R6-4	Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Evolution VIII, IX (4G63T 2003-2006)	6.142" .237" / 6mm Longer	1.890"	1.038"	.866" (22mm)	.8671"	645
14422-4	14422R6-4	Eclipse GST, GSX & Eagle Talon TSi 2.0 (7 Bolt 4G63, 4G63T 1993.5-1999) Evolution VIII, IX (4G63T 2003-2006)	6.378" .473" / 12mm Longer	1.890"	1.038"	.866" (22mm)	.8671"	655
14409-4	14409R6-4	EVO X 4B11T (2008-Up)	5.656"	2.165"	.860"	.9055" (23mm)	.9063"	630
NISSAN								
14408-4	14408R6-4	2.0 SR20DE, SR20DET (1991-2002)	5.365"	2.008"	.900"	.866" (22mm)	.8671"	600
14401-4	14401R6-4	KA24E (1989-1990), KA24DE (1991-1998), 240SX	6.495"	2.086"	.973"	.827" (21mm)	.8281"	630
14429-6	14429R6-6	Patrol 4.8 TB48	6.435"	2.362"	1.290"	.9055" (23mm)	.9063"	800
14411-6	14411R6-6	RB25DE(T), RB26DETT (Stock 21mm pin)	4.783"	2.008"	.857"	.827" (21mm)	.8281"	565
14418-6	14418R6-6	RB25DE(T), RB26DETT (22mm pin)	4.783"	2.008"	.857"	.866" (22mm)	.8671"	565
14428-6	14428R6-6	RB30E/T	5.995"	2.087"	.856"	.827" (21mm)	.8281"	630
14406-6	14406R6-6	VQ35DE(T) (2002-Up Altima/Maxima and 2003-Up 350Z)	5.680"	2.165"	.820"	.866" (22mm)	.8671"	590
14437-6	-----	VR30DDTT (2016-Up)	5.975"	2.244"	.818"	.9055" (23mm)	.9063"	640
14424-6	-----	GT-R 3.8 VR38DETT*	6.500"	2.323"	.897"	.9055" (23mm)	.9063"	740
15424-6	-----	GT-R 3.8 VR38DETT 300M alloy Lightweight design*	6.500"	2.323"	.897"	.9055" (23mm)	.9063"	730
15524-6	-----	GT-R 3.8 VR38DETT 300M alloy Heavyweight design	6.500"	2.323"	.897"	.9055" (23mm)	.9063"	815
15444-6	-----	GT-R 3.8 VR38DETT 300M alloy (.990" pin)	6.500"	2.323"	.897"	.990"	.9911"	760

* 14424 and 15424 are drop in designs - no balancing required when using stock crank/piston

Note: Single replacement connecting rod pieces are also available. Simply order your part number with a -1 suffix.

STEEL CONNECTING RODS

Renault / Subaru / Toyota

Pro Series I-Beam Turbo Tuff® Rods

- ▶ Forged from 4340 aircraft quality vacuum degassed material
- ▶ Shot peened after machining to MIL spec and 100% individually magnafluxed
- ▶ Specifically designed to handle high horsepower applications when using turbos and/or nitrous
- ▶ Fasteners are 3/8"
- ▶ Flywheel horsepower range for these rods in a 4 cylinder application is 1,000+, for a 6 cylinder application the range is 1,250+ and for a 8 cylinder application the range is 1,500+

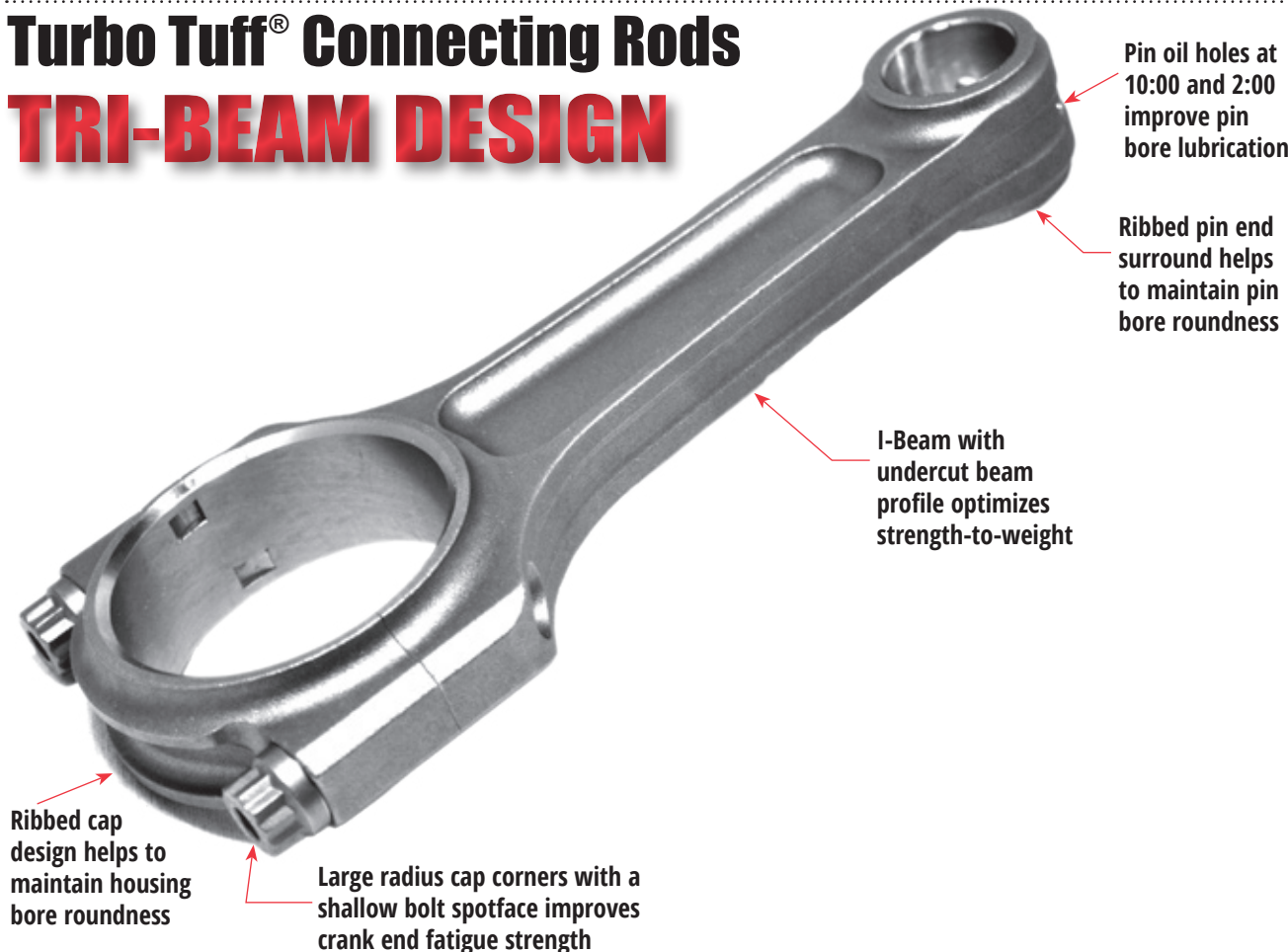


ARP 2000 Part No.	ARP 625+ Part No.	Description	Center-to-Center	Big End Bore	Big End Width	Pin Diameter	Pin Bore	Avg. Gram Weight
RENAULT								
14423-4	14423R6-4	Megane, Clio	5.669"	2.031"	.984"	.827" (21mm)	.8278"	615
SUBARU								
14431-4	14431R6-4	FA20 BRZ 2.0L 2013-Up/WRX 2015-Up	5.090"	2.087"	.843"	.866" (22mm)	.8671"	560
14416-4	14416R6-4	WRX EJ205/STi EJ257	5.137"	2.165"	.840"	.9055" (23mm)	.9063"	560
14436-4	14436R6-4	WRX EJ205/STi EJ257	5.216"	2.165"	.840"	.9055" (23mm)	.9063"	560
			.079" / 2mm Longer					
TOYOTA								
14431-4	14431R6-4	Scion FR-S 2.0L	5.090"	2.087"	.843"	.866" (22mm)	.8671"	560
14419-4	14419R6-4	Scion 2.4 2AZFE	5.886"	2.008"	.784"	.866" (22mm)	.8671"	570
14402-6	14402R6-6	Supra 3.0 2JZG (1993-1998)	5.590"	2.167"	1.015"	.866" (22mm)	.8671"	645
14447-6	14447R6-6	Land Cruiser 4.5L 1FZ-FE (1992-2009)	6.063"	2.384"	1.096"	1.024" (26mm)	1.0245"	715
14425-8	14425R6-8	3UR-FE 5.7L (2007-up)	6.476"	2.323"	.820"	.866" (22mm)	.8671"	675

Note: Single replacement connecting rod pieces are also available. Simply order your part number with a -1 suffix.

Turbo Tuff® Connecting Rods

TRI-BEAM DESIGN



CONNECTING RODS

Note: New part numbers are **BOLD & ITALICIZED**

STEEL CONNECTING RODS

H-Beam, H-Tuff & H-Tuff Plus Rods

Replacement Bolts and Specifications

Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ 30wt. Oil	Recommended Bolt Stretch w/ 30wt. Oil	Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ ARP Lube	Recommended Bolt Stretch w/ ARP Lube
14000	42351-1	65 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14001	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14002	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14003	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14004	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14005	42351-1	65 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14006	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14007	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14008	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14009	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14010	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14011	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14012	42351-1	65 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14013	42351-1	65 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14014	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14015	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14016	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14017	42354-1	95 ft./lbs.	.0050"-.0054"	-----	-----	-----	-----
14017R	42390-1	90 ft./lbs.	.0050"-.0060"	-----	-----	-----	-----
14018	42354-1	95 ft./lbs.	.0050"-.0054"	-----	-----	-----	-----
14018R	42390-1	90 ft./lbs.	.0050"-.0060"	-----	-----	-----	-----
14019	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14020	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14021	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14022	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14023	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14024	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14025	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14026	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14027	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14028	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14029	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14030	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14032	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14078	42351-1	65 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14079	42351-1	65 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
14080	42350-1	60 ft./lbs.	.0058"-.0062"	-----	-----	-----	-----
15020	42350-1	60 ft./lbs.	.0058"-.0062"	15020R6	42320-1	65 ft./lbs.	.0063"-.0067"
15020	42350-1	60 ft./lbs.	.0058"-.0062"	15020R6	42320-1	65 ft./lbs.	.0063"-.0067"
15022	42350-1	60 ft./lbs.	.0058"-.0062"	15022R6	42320-1	65 ft./lbs.	.0063"-.0067"
15024	42350-1	60 ft./lbs.	.0058"-.0062"	15024R6	42320-1	65 ft./lbs.	.0063"-.0067"
15027	42350-1	60 ft./lbs.	.0058"-.0062"	15027R6	42320-1	65 ft./lbs.	.0063"-.0067"
15029	42350-1	60 ft./lbs.	.0058"-.0062"	15029R6	42320-1	65 ft./lbs.	.0063"-.0067"
15032	42350-1	60 ft./lbs.	.0058"-.0062"	15032R6	42320-1	65 ft./lbs.	.0063"-.0067"
15036	42350-1	60 ft./lbs.	.0058"-.0062"	15036R6	42320-1	65 ft./lbs.	.0063"-.0067"
15084	42350-1	60 ft./lbs.	.0058"-.0062"	15084R6	42320-1	65 ft./lbs.	.0063"-.0067"

CONNECTING RODS

ARP Lube Part No.	Quantity	Description
40170	1/2 oz.	ARP Ultra-Torque® Fastener Assembly Lube

Important excerpt from the ARP catalog regarding proper fastener installation:

“The importance of tightening fasteners to their required preload cannot be emphasized enough. If a fastener is not tightened properly, the fastener will not apply the required preload on the application it is being used for and may become susceptible to failure. Conversely, if a fastener is over tightened and stretched too much, it becomes susceptible to failure by exceeding its maximum yield point.”



Manley Performance uses ARP connecting rod bolts exclusively and is proud to be an ARP “Performance Partner.”

STEEL CONNECTING RODS

Pro Series Turbo Tuff® I-Beam

Replacement Bolts and Specifications

Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ ARP Lube	Recommended Bolt Stretch w/ ARP Lube	Connecting Rod Part No.	Bolt Part No.	Recommended Torque w/ ARP Lube	Recommended Bolt Stretch w/ ARP Lube
14400	42350-1	60 ft./lbs.	.0058"-.0062"	14400R6	42320-1	60 ft./lbs.	.0063"-.0067"
14401	42350-1	60 ft./lbs.	.0058"-.0062"	14401R6	42320-1	60 ft./lbs.	.0063"-.0067"
14402	42351-1	60 ft./lbs.	.0058"-.0062"	14402R6	42321-1	65 ft./lbs.	.0065"-.0075"
14402	42351-1	60 ft./lbs.	.0058"-.0062"	14402R6	42321-1	65 ft./lbs.	.0065"-.0075"
14403	42351-1	60 ft./lbs.	.0058"-.0062"	14403R6	42321-1	65 ft./lbs.	.0065"-.0075"
14404	42351-1	60 ft./lbs.	.0058"-.0062"	14404R6	42321-1	65 ft./lbs.	.0065"-.0075"
14405	42351-1	60 ft./lbs.	.0058"-.0062"	14405R6	42321-1	65 ft./lbs.	.0065"-.0075"
14406	42350-1	60 ft./lbs.	.0058"-.0062"	14406R6	42320-1	60 ft./lbs.	.0063"-.0067"
14407	42351-1	60 ft./lbs.	.0058"-.0062"	14407R6	42321-1	65 ft./lbs.	.0065"-.0075"
14408	42350-1	60 ft./lbs.	.0058"-.0062"	14408R6	42320-1	65 ft./lbs.	.0063"-.0067"
14409	42350-1	60 ft./lbs.	.0058"-.0062"	14409R6	42320-1	60 ft./lbs.	.0063"-.0067"
14410	42350-1	60 ft./lbs.	.0058"-.0062"	14410R6	42320-1	60 ft./lbs.	.0063"-.0067"
14411	42351-1	60 ft./lbs.	.0058"-.0062"	14411R6	42321-1	65 ft./lbs.	.0065"-.0075"
14412	42351-1	60 ft./lbs.	.0058"-.0062"	14412R6	42321-1	65 ft./lbs.	.0065"-.0075"
14413	42351-1	60 ft./lbs.	.0058"-.0062"	14413R6	42321-1	65 ft./lbs.	.0065"-.0075"
14414	42351-1	60 ft./lbs.	.0058"-.0062"	14414R6	42321-1	65 ft./lbs.	.0065"-.0075"
14415	42351-1	60 ft./lbs.	.0058"-.0062"	14415R6	42321-1	65 ft./lbs.	.0065"-.0075"
14416	42351-1	60 ft./lbs.	.0058"-.0062"	14416R6	42321-1	65 ft./lbs.	.0065"-.0075"
14417	42351-1	60 ft./lbs.	.0058"-.0062"	14417R6	42321-1	65 ft./lbs.	.0065"-.0075"
14418	42351-1	60 ft./lbs.	.0058"-.0062"	14418R6	42321-1	65 ft./lbs.	.0065"-.0075"
14419	42351-1	60 ft./lbs.	.0058"-.0062"	14419R6	42321-1	65 ft./lbs.	.0065"-.0075"
14420	42351-1	60 ft./lbs.	.0058"-.0062"	14420R6	42321-1	65 ft./lbs.	.0065"-.0075"
14421	42351-1	60 ft./lbs.	.0058"-.0062"	14421R6	42321-1	65 ft./lbs.	.0065"-.0075"
14422	42351-1	60 ft./lbs.	.0058"-.0062"	14422R6	42321-1	65 ft./lbs.	.0065"-.0075"
14423	42350-1	60 ft./lbs.	.0058"-.0062"	14423R6	42320-1	60 ft./lbs.	.0063"-.0067"
14424	42384-1	100 ft./lbs.	.0064"-.0068"	-----	-----	-----	-----
14425	42384-1	100 ft./lbs.	.0064"-.0068"	-----	-----	-----	-----
14426	42351-1	60 ft./lbs.	.0058"-.0062"	14426R6	42321-1	65 ft./lbs.	.0065"-.0075"
14427	42390-1	80 ft./lbs.	.0050"-.0060"	14427R6	42252-1	105 ft./lbs.	.0060"-.0065"
14428	42390-1	80 ft./lbs.	.0050"-.0060"	14428R6	42252-1	105 ft./lbs.	.0060"-.0065"
14429	42351-1	60 ft./lbs.	.0058"-.0062"	14429R6	42321-1	65 ft./lbs.	.0065"-.0075"
14430	42350-1	60 ft./lbs.	.0058"-.0062"	14430R6	42320-1	60 ft./lbs.	.0063"-.0067"
14431	42350-1	60 ft./lbs.	.0058"-.0062"	14431R6	42320-1	60 ft./lbs.	.0063"-.0067"
14432	42350-1	60 ft./lbs.	.0058"-.0062"	14432R6	42320-1	60 ft./lbs.	.0063"-.0067"
14433	42350-1	60 ft./lbs.	.0058"-.0062"	14433R6	42320-1	60 ft./lbs.	.0063"-.0067"
14434	42350-1	60 ft./lbs.	.0058"-.0062"	14434R6	42320-1	60 ft./lbs.	.0063"-.0067"
14435	42351-1	60 ft./lbs.	.0058"-.0062"	14435R6	42321-1	65 ft./lbs.	.0065"-.0075"
14436	42351-1	60 ft./lbs.	.0058"-.0062"	14436R6	42321-1	65 ft./lbs.	.0065"-.0075"
14437	42351-1	60 ft./lbs.	.0058"-.0062"	14437R6	42321-1	65 ft./lbs.	.0065"-.0075"
14448	42351-1	60 ft./lbs.	.0058"-.0062"	14448R6	42321-1	65 ft./lbs.	.0065"-.0075"
14449	42351-1	60 ft./lbs.	.0058"-.0062"	14448R6	42321-1	65 ft./lbs.	.0065"-.0075"
15403	42351-1	60 ft./lbs.	.0058"-.0062"	15403R6	42321-1	65 ft./lbs.	.0065"-.0075"
15424	42384-1	100 ft./lbs.	.0064"-.0068"	-----	-----	-----	-----
15444	42384-1	100 ft./lbs.	.0064"-.0068"	-----	-----	-----	-----
15524	42384-1	100 ft./lbs.	.0064"-.0068"	-----	-----	-----	-----
15527	42390-1	80 ft./lbs.	.0050"-.0060"	15527R6	42252-1	105 ft./lbs.	.0060"-.0065"

ARP Lube Part No.	Quantity	Description
40170	1/2 oz.	ARP Ultra-Torque® Fastener Assembly Lube

CONNECTING RODS

STEEL CONNECTING RODS

Pin Bushings

► Premium AMPCO 18 material

Part No.	O.D.	I.D.	O/A Length
420355-1	0.850	0.775	0.895
422215-1	0.860	0.775	0.975
42035-1	0.850	0.784	0.895
42221-1	0.860	0.784	0.975
421865-1	0.930	0.815	0.965
422855-1	0.904	0.820	0.845
423035-1	0.910	0.820	1.015
42285-1	0.904	0.828	0.845
42303-1	0.910	0.828	1.015
42186-1	0.930	0.828	0.965
422615-1	0.924	0.850	0.845
420525-1	0.930	0.855	0.840
420505-1	0.930	0.855	1.010
420395-1	0.894	0.856	1.015
421835-1	0.910	0.856	0.950
423195-1	0.930	0.856	0.775
423455-1	0.990	0.856	0.995
423235-1	0.910	0.860	1.010
42261-1	0.924	0.860	0.845

Part No.	O.D.	I.D.	O/A Length
42039-1	0.894	0.866	1.015
42183-1	0.910	0.866	0.950
42323-1	0.910	0.866	1.010
42319-1	0.930	0.866	0.775
42052-1	0.930	0.866	0.840
42050-1	0.930	0.866	1.010
42345-1	0.990	0.866	0.995
423145-1	0.979	0.896	0.995
423095-1	0.964	0.900	0.835
420515-1	0.964	0.900	0.855
420575-1	0.979	0.900	0.815
420595-1	0.990	0.900	0.835
42314-1	0.979	0.906	0.995
42309-1	0.964	0.908	0.835
42051-1	0.964	0.908	0.855
42057-1	0.979	0.908	0.815
42059-1	0.990	0.908	0.835
420285-1	1.100	1.015	0.835
42028-1	1.100	1.026	0.835

Connecting Rod Bolts

Part No.	Diameter	Under Head Length	Material
42350-1	3/8"	1.500"	ARP 2000
42320-1	3/8"	1.500"	ARP 625+
42351-1	3/8"	1.600"	ARP 2000
42321-1	3/8"	1.600"	ARP 625+
42354-1	7/16"	1.450"	ARP 8740
42390-1	7/16"	1.450"	ARP 2000
42252-1	7/16"	1.450"	ARP 625+
42384-1	7/16"	1.650"	ARP 2000

Dowel Bushings

Part No.	O.D.	I.D.	O/A Length
42048-1	.4250"	.3860"	.536"
42385-1	.4390"	.3860"	.815"
42382-1	.4390"	.3860"	.860"
42380-1	.4390"	.3860"	.900"
42049-1	.5000"	.4440"	.536"
42352-1	.5020"	.4485"	.820"
42392-1	.5020"	.4485"	.855"

Manufacturing Processes



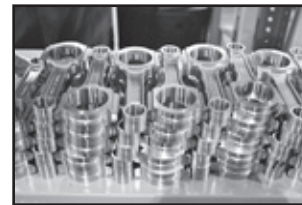
Bore & Profile



Bore & Profile



Post Bore & Profile



Post Bore & Profile



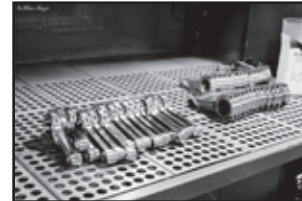
Drill & Tap



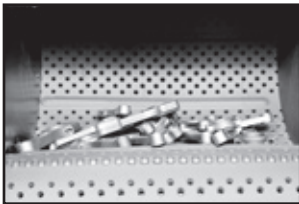
Final Bore



CNC Tooling



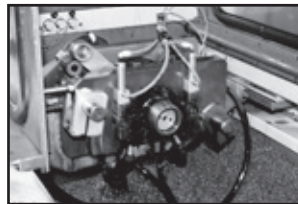
Rod Detailing



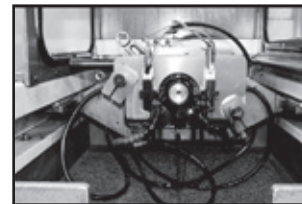
Shot Peen



Magnaflux



Sunnen® H-Beam Cross Grinding



Sunnen® I-Beam Cross Grinding



Post Cross Grind



Sunnen® Pin Honing



Bushing Chamfering



Sunnen® Precision Gauging

CONNECTING RODS

Mitsubishi 4G63/4G64 7 Bolt Crankshafts

Forged "Race Series" For Street / Strip

- ▶ Premium heat treated forgings
- ▶ Better performance at high RPM
- ▶ Stress relieved & shot peened
- ▶ Nitrided
- ▶ 100% Magnafluxed



Forged Part No.	Stroke	Weight
190100	88mm	33.5 lbs

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

- ▶ 4340 Billet
- ▶ Multi-step heat treatment process
- ▶ Stress relieved and shot peened
- ▶ Nitrided
- ▶ 100% Magnafluxed
- ▶ Knife-edged counterweights



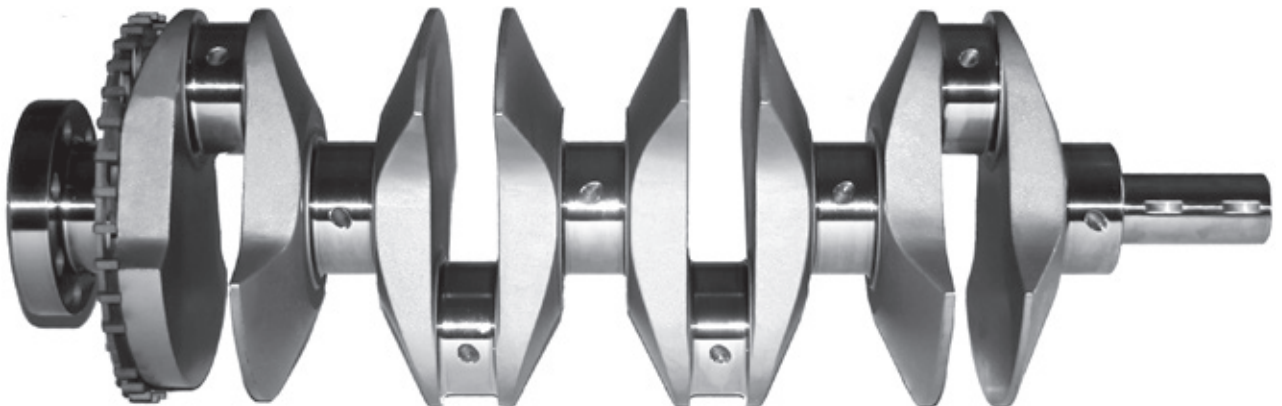
Billet Part No.	Stroke	Weight
190100B	88mm	32 lbs
190110B	94mm	32.5 lbs
190120B	100mm	33.5 lbs
190120BSLW	100mm	29.5 lbs

Mitsubishi 4B11T Evo X Stroker Crankshafts

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

- ▶ 4340 Billet
- ▶ Multi-step heat treatment process
- ▶ Stress relieved and shot peened
- ▶ Nitrided
- ▶ 100% Magnafluxed
- ▶ Knife-edged counterweights

Billet Part No.	Stroke	Weight
190230B	94mm	37 lbs



CUSTOM ROTATING ASSEMBLIES

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

1. Choose your crankshaft part number based on stroke and style 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 alloy 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 ± .0002"
- ▶ Bend and twist is tightly controlled
- ▶ Weight matched to +/- 1.5 grams
- ▶ H-Beam/H-Tuff comes standard with 3/8" ARP 2000 bolts
- ▶ H-Tuff 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
- ▶ Premium Chrome Moly pin included with Standard Series
- ▶ 9310 Alloy pin included with Extreme Duty/Turbo Tuff® Series
- ▶ Moly coated skirts

RINGS

- ▶ 1.2 x 1.2 x 2.8mm
- ▶ High Performance steel tops and Napier 2nds standard
- ▶ Rings included in piston kits

BEARINGS

- ▶ Premium ACL Race Series with narrowed rod bearings

Mitsubishi 4G63 7 Bolt Std Stroke Series 2.0L

Forged "Race Series" & "Turbo Tuff®" Billet 88mm Stroke Crank w/150mm Rods

Crank P/N Type	Rod P/N Description	Standard Piston P/N	Extreme Duty P/N	Turbo Tuff® P/N	Piston Description	Compression Ratio	
						47cc DSM	43cc EVO
190100 Forged or 190100B Billet	14022-4 150mm H-Beam	606000C-4	606000CE-4	606300CE-4	85mm/-12cc Dish	8.5	9.0
	or 15022-4 150mm H-Tuff	606005C-4	606005CE-4	606305CE-4	85.5mm/-12cc Dish	8.5	9.0
Bearing P/N Description	15022R6-4 150mm H-Tuff Plus	606010C-4	606010CE-4	606310CE-4	86mm/-12cc Dish	8.5	9.0
	or 14400-4 150mm LW I-Beam	606015C-4	606015CE-4	-----	86.5mm/-12cc Dish	8.5	9.0
30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	14403-4 150mm TT I-Beam	606020C-4	606020CE-4	-----	87mm/-12cc Dish	8.5	9.0
	or 14403-4 150mm TT I-Beam	606100C-4	606100CE-4	-----	85mm/-8cc Dish	9.0	9.5
30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	14403-4 150mm TT I-Beam	606105C-4	606105CE-4	-----	85.5mm/-8cc Dish	9.0	9.5
	or 15403-4 150mm 300M I-Beam	606110C-4	606110CE-4	-----	86mm/-8cc Dish	9.0	9.5
30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	14403-4 150mm TT I-Beam	606115C-4	606115CE-4	-----	86.5mm/-8cc Dish	9.0	9.5
	or 15403-4 150mm 300M I-Beam	606120C-4	606120CE-4	-----	87mm/-8cc Dish	9.0	9.5
30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	14403-4 150mm TT I-Beam	606200C-4	606200CE-4	606400CE-4	85mm/-2.5cc Flat Top	10.0	10.5
	or 14421-4 156mm TT I-Beam	606205C-4	606205CE-4	606405CE-4	85.5mm/-2.5cc Flat Top	10.0	10.5
30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	14403-4 150mm TT I-Beam	606210C-4	606210CE-4	606410CE-4	86mm/-2.5cc Flat Top	10.0	10.5
	or 15403-4 150mm 300M I-Beam	606215C-4	606215CE-4	-----	86.5mm/-2.5cc Flat Top	10.0	10.5
30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	14403-4 150mm TT I-Beam	606220C-4	606220CE-4	-----	87mm/-2.5cc Flat Top	10.0	10.5

Mitsubishi 4G63 7 Bolt Std Stroke Series 2.0L

Forged "Race Series" & "Turbo Tuff®" Billet 88mm Stroke Crank w/156mm Rods

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston P/N	Extreme Duty P/N	Piston Description	Compression Ratio	
						47cc DSM	43cc EVO
190100 Forged or 190100B Billet	14020-4 156mm H-Beam	30060 Rod & 33060 Mains Only	617000C-4	617000CE-4	85mm/-12cc Dish	8.5	9.0
	or 15020-4 156mm H-Tuff	or 33060T Mains w/ Thrusts	617005C-4	617005CE-4	85.5mm/-12cc Dish	8.5	9.0
190100B Billet	15020-4 156mm H-Tuff	30060 Rod & 33060 Mains Only	617010C-4	617010CE-4	86mm/-12cc Dish	8.5	9.0
	or 15020R6-4 156mm H-Tuff Plus	or 33060T Mains w/ Thrusts	617015C-4	617015CE-4	86.5mm/-12cc Dish	8.5	9.0
190100B Billet	14421-4 156mm TT I-Beam	30060 Rod & 33060 Mains Only	617020C-4	617020CE-4	87mm/-12cc Dish	8.5	9.0

Note: "LW" = "Lightweight" design rod and "TT" = "Turbo Tuff®" design rod

Mitsubishi 4G63 7 Bolt Stroker Series 2.1L

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

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston		Piston Description	Compression Ratio		
			P/N	Extreme Duty P/N		47cc DSM	43cc EVO	
190110B Billet	14022-4 150mm H-Beam or 15022-4 150mm H-Tuff	30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	618000C-4	618000CE-4	85mm/-17cc Dish	8.5	9.0	
			618005C-4	618005CE-4	85.5mm/-17cc Dish	8.5	9.0	
			618010C-4	618010CE-4	86mm/-17cc Dish	8.5	9.0	
	15022R6-4 150mm H-Tuff Plus or 14400-4 150mm LW I-Beam	33060 Mains Only or 33060T Mains w/ Thrusts	618015C-4	618015CE-4	86.5mm/-17cc Dish	8.5	9.0	
			618020C-4	618020CE-4	87mm/-17cc Dish	8.5	9.0	
			618200C-4	618200CE-4	85mm/-8cc Dish	10.0	10.5	
	14403-4 150mm TT I-Beam or 15403-4 150mm 300M I-Beam	33060 Mains Only or 33060T Mains w/ Thrusts	618205C-4	618205CE-4	85.5mm/-8cc Dish	10.0	10.5	
			618210C-4	618210CE-4	86mm/-8cc Dish	10.0	10.5	
			618215C-4	618215CE-4	86.5mm/-8cc Dish	10.0	10.5	
				618220C-4	618220CE-4	87mm/-8cc Dish	10.0	10.5

Mitsubishi 4G63 7 Bolt Stroker Series 2.1L

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

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston		Piston Description	Compression Ratio		
			P/N	Extreme Duty P/N		47cc DSM	43cc EVO	
190110B Billet	14020-4 156mm H-Beam or 15020-4 156mm H-Tuff	30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	619000C-4	619000CE-4	85mm/-17cc Dish	8.5	9.0	
			619005C-4	619005CE-4	85.5mm/-17cc Dish	8.5	9.0	
			619010C-4	619010CE-4	86mm/-17cc Dish	8.5	9.0	
	15020R6-4 156mm H-Tuff Plus or 14421-4 156mm TT I-Beam	33060 Mains Only or 33060T Mains w/ Thrusts	619015C-4	619015CE-4	86.5mm/-17cc Dish	8.5	9.0	
			619020C-4	619020CE-4	87mm/-17cc Dish	8.5	9.0	
			619200C-4	619200CE-4	85mm/-8cc Dish	10.0	10.5	
	14421-4 156mm TT I-Beam	33060 Mains Only or 33060T Mains w/ Thrusts	619205C-4	619205CE-4	85.5mm/-8cc Dish	10.0	10.5	
			619210C-4	619210CE-4	86mm/-8cc Dish	10.0	10.5	
			619215C-4	619215CE-4	86.5mm/-8cc Dish	10.0	10.5	
				619220C-4	619220CE-4	87mm/-8cc Dish	10.0	10.5

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 Description	Bearing P/N Description	Standard Piston		Piston Description	Compression Ratio		
			P/N	Extreme Duty P/N		47cc DSM	43cc EVO	
190120B Billet or 190120BSLW Billet Super Lightweight	14022-4 150mm H-Beam or 15022-4 150mm H-Tuff	30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	608000C-4	608000CE-4	85mm/-22cc Dish	8.5	9.0	
			608005C-4	608005CE-4	85.5mm/-22cc Dish	8.5	9.0	
			608010C-4	608010CE-4	86mm/-22cc Dish	8.5	9.0	
	15022R6-4 150mm H-Tuff Plus or 14400-4 150mm LW I-Beam	33060 Mains Only or 33060T Mains w/ Thrusts	608015C-4	608015CE-4	86.5mm/-22cc Dish	8.5	9.0	
			608020C-4	608020CE-4	87mm/-22cc Dish	8.5	9.0	
			617000C-4	617000CE-4	85mm/-12cc Dish	10.0	10.5	
	14403-4 150mm TT I-Beam or 15403-4 150mm 300M I-Beam	33060 Mains Only or 33060T Mains w/ Thrusts	617005C-4	617005CE-4	85.5mm/-12cc Dish	10.0	10.5	
			617010C-4	617010CE-4	86mm/-12cc Dish	10.0	10.5	
			617015C-4	617015CE-4	86.5mm/-12cc Dish	10.0	10.5	
				617020C-4	617020CE-4	87mm/-12cc Dish	10.0	10.5

Note: "LW" = "Lightweight" design rod and "TT" = "Turbo Tuff®" design rod

CUSTOM ROTATING ASSEMBLIES

Mitsubishi 4G64 7 Bolt De-Stroke Series 2.1L

Forged "Race Series" & "Turbo Tuff®" Billet 88mm Stroke Crank w/ 156mm Rods

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Piston		Piston Description	Compression Ratio	
			Standard P/N	Extreme Duty P/N		47cc DSM	43cc EVO
190100 Forged or 190100B Billet	14020-4 156mm H-Beam	30060 Rod &	606015C-4	606015CE-4	86.5mm/-12cc Dish	8.5	9.0
			606020C-4	606020CE-4	87mm/-12cc Dish	8.5	9.0
	15020-4 156mm H-Tuff	33060 Mains Only	606115C-4	606115CE-4	86.5mm/-8cc Dish	9.0	9.5
			606120C-4	606120CE-4	87mm/-8cc Dish	9.0	9.5
	15020R6-4 156mm H-Tuff Plus	33060T Mains w/ Thrusts	606215C-4	606215CE-4	86.5mm/-2.5cc Flat Top	10.0	10.5
			606220C-4	606220CE-4	87mm/-2.5cc Flat Top	10.0	10.5
14421-4 156mm TT I-Beam							

Mitsubishi 4G64 7 Bolt De-Stroke Series 2.1L

Forged "Race Series" & "Turbo Tuff®" Billet 88mm Stroke Crank w/ 162mm Rods

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Piston		Piston Description	Compression Ratio	
			Standard P/N	Extreme Duty P/N		47cc DSM	43cc EVO
190100 Forged or 190100B Billet	14422-4 162mm TT I-Beam	30060 Rod &	617015C-4	617015CE-4	86.5mm/-12cc Dish	8.5	9.0
			617020C-4	617020CE-4	87mm/-12cc Dish	8.5	9.0
		33060 Mains Only					
		33060T Mains w/ Thrusts					

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 Description	Bearing P/N Description	Piston		Piston Description	Compression Ratio	
			Standard P/N	Extreme Duty P/N		47cc DSM	43cc EVO
190110B Billet	14020-4 156mm H-Beam	30060 Rod &	618015C-4	618015CE-4	86.5mm/-17cc Dish	8.5	9.0
			618020C-4	618020CE-4	87mm/-17cc Dish	8.5	9.0
	15020-4 156mm H-Tuff	33060 Mains Only	618215C-4	618215CE-4	86.5mm/-8cc Dish	10.0	10.5
			618220C-4	618220CE-4	87mm/-8cc Dish	10.0	10.5
	15020R6-4 156mm H-Tuff Plus	33060T Mains w/ Thrusts					
			14421-4 156mm TT I-Beam				

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 Description	Bearing P/N Description	Piston		Piston Description	Compression Ratio	
			Standard P/N	Extreme Duty P/N		47cc DSM	43cc EVO
190110B Billet	14422-4 162mm TT I-Beam	30060 Rod &	619015C-4	619015CE-4	86.5mm/-17cc Dish	8.5	9.0
			619020C-4	619020CE-4	87mm/-17cc Dish	8.5	9.0
		33060 Mains Only	619215C-4	619215CE-4	86.5mm/-8cc Dish	10.0	10.5
		33060T Mains w/ Thrusts	619220C-4	619220CE-4	87mm/-8cc Dish	10.0	10.5

Note: "TT" = "Turbo Tuff®" design rod

CRANKS & KITS

CUSTOM ROTATING ASSEMBLIES

Mitsubishi 4G64 7 Bolt Std Stroke Series 2.4L

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

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston P/N		Piston Description	Compression Ratio		
			Standard Piston P/N	Extreme Duty P/N		47cc DSM	43cc EVO	
190120B Billet or 190120BSLW Billet Super Lightweight	14022-4 150mm H-Beam or	30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	613000C-4	613000CE-4	86.5mm/-23.5cc Dish	8.5	9.0	
			613005C-4	613005CE-4	87mm/-23.5cc Dish	8.5	9.0	
	15022-4 150mm H-Tuff or		606015C-4	606015CE-4	86.5mm/-12cc Dish	10.0	10.5	
			606020C-4	606020CE-4	87mm/-12cc Dish	10.0	10.5	
	15022R6-4 150mm H-Tuff Plus or		14400-4 150mm LW I-Beam or 14403-4 150mm TT I-Beam or 15403-4 150mm 300M I-Beam					

Mitsubishi 4G64 7 Bolt Std Stroke Series 2.4L

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

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston P/N		Piston Description	Compression Ratio		
			Standard Piston P/N	Extreme Duty P/N		47cc DSM	43cc EVO	
190120B Billet or 190120BSLW Billet Super Lightweight	14020-4 156mm H-Beam or	30060 Rod & 33060 Mains Only or 33060T Mains w/ Thrusts	608015C-4	608015CE-4	86.5mm/-22cc Dish	8.6	9.1	
			608020C-4	608020CE-4	87mm/-22cc Dish	8.6	9.1	
	15020-4 156mm H-Tuff or		617015C-4	617015CE-4	86.5mm/-12cc Dish	10.0	10.5	
			617020C-4	617020CE-4	87mm/-12cc Dish	10.0	10.5	
	15020R6-4 156mm H-Tuff Plus or		14421-4 156mm TT I-Beam					

Mitsubishi 4B11T Evo X Stroker Series 2.2L

"Turbo Tuff®" Billet 94mm Stroke Cranks w/ 143.66mm Rods

Crank P/N Type	Rod P/N Description	Standard Piston P/N	Extreme Duty P/N	Turbo Tuff® P/N	Piston Description	Comp Ratio
						49cc
190230B Billet	14029-4 143.66mm H-Beam or	624000C-4	624000CE-4	624200CE-4	86mm/-11cc Dish	9.0
		624005C-4	624005CE-4	624205CE-4	86.5mm/-11cc Dish	9.0
Bearing P/N Description 30090 Rod & 33090 Mains Only or 33090T Mains w/ Thrusts	15029-4 143.66mm H-Tuff or 15029R6-4 143.66mm H-Tuff Plus or 14409-4 143.66mm TT I-Beam	624100C-4	624100CE-4	624300CE-4	86mm/-3.5cc Dish	10.0
		624105C-4	624105CE-4	624305CE-4	86.5mm/-3.5cc Dish	10.0

Note: "LW" = "Lightweight" design rod and "TT" = "Turbo Tuff®" design rod

Note: It is NOT necessary to remove factory oil squirters with Manley Evo X stroker kit

CRANKS & KITS

CUSTOM ROTATING ASSEMBLIES

Nissan RB26DETT Crankshafts

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

- ▶ 4340 Billet
- ▶ Multi-step heat treatment process
- ▶ Stress relieved and shot peened
- ▶ Nitrided
- ▶ 100% Magnafluxed
- ▶ Knife-edged counterweights



Part No.	Stroke	Weight
190490B	73.7mm	44 lbs
190470B	77.7mm	44 lbs

Nissan RB26DETT Rotating Assemblies

Ordering a Manley Nissan RB26 Rotating Assembly is as easy as 1-2-3....

1. Choose your crankshaft part number based on stroke
2. Choose your connecting rod part number
3. Choose your piston part number based on desired bore size (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

CRANK

- ▶ Premium heat treated 4340 billet
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stressed relieved, shot peened and 100% magnafluxed
- ▶ Fully profiled knife-edged counterweights

RODS

- ▶ 4340 material forgings 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
- ▶ I-Beam comes standard with 3/8" ARP 2000 bolts (affix an R6 suffix for ARP 625+ bolt upgrade)

PISTONS

- ▶ High strength 2618 alloy forgings
- ▶ Exact ring groove squareness to cylinder wall provides maximum horsepower
- ▶ Offset wrist pin design
- ▶ Premium Chrome Moly pin included with Standard Series
- ▶ 9310 Alloy pin included with Extreme Duty Series
- ▶ Moly coated skirts

RINGS

- ▶ 1.0 x 1.2 x 2.8mm
- ▶ NPR Premium Steel top rings with Napier second rings and 7-10 lb. tension oil rings included in piston kits

BEARINGS

- ▶ Premium ACL Race Series with narrowed rod bearings

"Turbo Tuff®" Billet 73.7mm Stroke Crank

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston P/N	Extreme Duty P/N	Piston Description	Compression Ratio 66.5cc
190490B Billet	14028-6 121.5mm H-Beam or	30150 Rod &	643002C-6	643102CE-6	86.25mm/+20cc Dome	9.0
			643005C-6	643105CE-6	86.50mm/+20cc Dome	9.0
	14411-6 121.5mm TT I-Beam	33150 Mains	643007C-6	643107CE-6	86.75mm/+20cc Dome	9.0
			643010C-6	643110CE-6	87.00mm/+20cc Dome	9.0

"Turbo Tuff®" Billet 77.7mm Stroke Crank

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston P/N	Extreme Duty P/N	Piston Description	Compression Ratio 66.5cc
190470B Billet	14028-6 121.5mm H-Beam or	30150 Rod &	643102C-6	643102CE-6	86.25mm/+17cc Dome	9.0
			643105C-6	643105CE-6	86.50mm/+17cc Dome	9.0
	14411-6 121.5mm TT I-Beam	33150 Mains	643107C-6	643107CE-6	86.75mm/+17cc Dome	9.0
			643110C-6	643110CE-6	87.00mm/+17cc Dome	9.0

Note: "TT" = "Turbo Tuff® design rod"

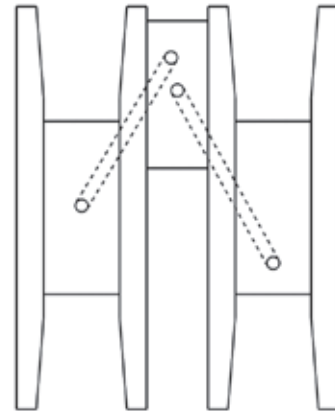
Note: New part numbers are **BOLD & ITALICIZED**

Subaru EJ20/EJ25 Crankshafts

**Fully Machined "Turbo Tuff® Series"
Billet For High Horsepower/High Boosted Applications**

- ▶ 4340 Billet
- ▶ Multi-step heat treatment process
- ▶ Stress relieved and shot peened
- ▶ Nitrided
- ▶ 100% Magnafluxed
- ▶ "Direct Shot" dual main priority rod journal oiling
- ▶ Gun drilled crank pin and counterweights

Part No.	Stroke	Weight
190160B	75mm	18 lbs
190040B	79mm	18 lbs
190060B	83mm	18 lbs



"Direct Shot" dual main priority rod journal oiling



Create your own "Bullet-Proof" Subaru Rotating Assemblies with Manley H-Beam, H-Tuff or Turbo Tuff® Connecting Rods and Manley Platinum Series Pistons on pages 50-52.

CUSTOM ROTATING ASSEMBLIES

Subaru EJ20/EJ25

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

1. Choose your crankshaft part number based on stroke 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 lightweight 4340 billet
- ▶ Multi-step heat treatment process and nitrided for added strength
- ▶ Stress relieved, shot-peened and 100% magnafluxed
- ▶ Fully profiled counterweights on the billet forgings

RODS

- ▶ 4340 material forgings 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/H-Tuff comes standard with 3/8" ARP 2000 bolts
- ▶ H-Tuff Plus comes standard with 3/8" ARP 625+ bolts
- ▶ I-Beam 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
- ▶ Premium Chrome Moly pin included with Standard Series
- ▶ 9310 Alloy pin included with Extreme Duty Series
- ▶ Moly coated skirts

RINGS

- ▶ 1.2 x 1.2 x 2.8mm EJ20
- ▶ 1.2 x 1.2 x 2.0mm EJ25
- ▶ High Performance steel tops and Napier 2nds standard
- ▶ Rings included in piston kits

BEARINGS

- ▶ Premium ACL Race Series with narrowed rod bearings
- ▶ Standard and "HX" clearance bearings are both available



IAG Global Time Attack

CUSTOM ROTATING ASSEMBLIES

Subaru EJ20 Std Stroke Series 2.0L

"Turbo Tuff" Billet 75mm Stroke Crank

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston P/N	Extreme Duty P/N	Piston Description	Comp Ratio 48cc
190160B Billet	14024-4 130.5mm H-Beam	30070 or 30070X* Rod &	615000C-4	615000CE-4	92mm/-12cc Dish	8.5
	15024-4 130.5mm H-Tuff	33070 or 33070X* Mains w/ #5 Thrust	615005C-4	615005CE-4	92.5mm/-12cc Dish	8.5
	15024R6-4 130.5mm H-Tuff Plus or 14416-4 130.5mm TT I-Beam	33080 Mains w/ #3 Thrust	615010C-4	615010CE-4	93mm/-12cc Dish	8.5

Subaru EJ20 Stroker Series 2.1L

"Turbo Tuff" Billet 79mm Stroke Crank

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston P/N	Extreme Duty P/N	Piston Description	Comp Ratio 48cc
190040B Billet	14024-4 130.5mm H-Beam	30070 or 30070X* Rod &	620000C-4	620000CE-4	92mm/-16cc Dish	8.5
	15024-4 130.5mm H-Tuff	33070 or 33070X* Mains w/ #5 Thrust	620005C-4	620005CE-4	92.5mm/-16cc Dish	8.5
	15024R6-4 130.5mm H-Tuff Plus or 14416-4 130.5mm TT I-Beam	33080 Mains w/ #3 Thrust	620010C-4	620010CE-4	93mm/-16cc Dish	8.5

Subaru EJ25 De-Stroke Series 2.35L

"Turbo Tuff" Billet 75mm Stroke Crank

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston P/N	Extreme Duty P/N	Piston Description	Compression Ratio 51cc
190160B Billet	14024-4 130.5mm H-Beam or 15024-4 130.5mm H-Tuff or 15024R6-4 130.5mm H-Tuff Plus or 14416-4 130.5mm TT I-Beam	30070 or 30070X* Rod & 33070 or 33070X* Mains	621000C-4	-----	PLATINUM SERIES 99.50mm/-18cc Dish	8.5
			621002C-4	-----	99.75mm/-18cc Dish	8.5
			621005C-4	-----	100.00mm/-18cc Dish	8.5
	621100C-4	-----	99.50mm/-6cc Dish	9.8		
	621102C-4	-----	99.75mm/-6cc Dish	9.8		
	621105C-4	-----	100.00mm/-6cc Dish	9.8		
	632000C-4	632000CE-4	TURBO TUFF® DESIGN 99.50mm/-18cc Dish	8.5		
	632002C-4	632002CE-4	99.75mm/-18cc Dish	8.5		
	632005C-4	632005CE-4	100.00mm/-18cc Dish	8.5		
	632100C-4	632100CE-4	99.50mm/-6cc Dish	9.8		
	632102C-4	632102CE-4	99.75mm/-6cc Dish	9.8		
	632105C-4	632105CE-4	100.00mm/-6cc Dish	9.8		

Note: "TT" = "Turbo Tuff" design rod
* HX Series Bearings

CUSTOM ROTATING ASSEMBLIES

Subaru EJ25 Std Stroke Series 2.5L

"Turbo Tuff" Billet 79mm Stroke Crank

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston P/N	Extreme Duty P/N	Piston Description	Comp Ratio 51cc	57cc		
190040B Billet	14024-4 130.5mm H-Beam or 15024-4 130.5mm H-Tuff or 15024R6-4 130.5mm H-Tuff Plus or 14416-4 130.5mm TT I-Beam	30070 or 30070X* Rod & 33070 or 33070X* Mains	PLATINUM SERIES						
			612000CA-1**	-----	99.50mm Grade A/-22cc Dish	8.5	-		
			612000CB-1**	-----	99.50mm Grade B/-22cc Dish	8.5	-		
			612000C-4	-----	99.50mm/-22cc Dish	8.5	-		
			612001C-4	-----	99.55mm/-22cc Dish	8.5	-		
			612002C-4	-----	99.75mm/-22cc Dish	8.5	-		
			612005C-4	-----	100.00mm/-22cc Dish	8.5	-		
			612007C-4	-----	100.25mm/-22cc Dish	8.5	-		
			612200CA-1**	-----	99.50mm Grade A/-17cc Dish	9.0	8.5		
			612200CB-1**	-----	99.50mm Grade B/-17cc Dish	9.0	8.5		
			612200C-4	-----	99.50mm/-17cc Dish	9.0	8.5		
			612201C-4	-----	99.55mm/-17cc Dish	9.0	8.5		
			612202C-4	-----	99.75mm/-17cc Dish	9.0	8.5		
			612205C-4	-----	100.00mm/-17cc Dish	9.0	8.5		
			612207C-8	-----	100.25mm/-17cc Dish	9.0	8.5		
			612100C-4	-----	99.50mm/-10cc Dish	9.8	9.2		
			612102C-4	-----	99.75mm/-10cc Dish	9.8	9.2		
			612105C-4	-----	100.00mm/-10cc Dish	9.8	9.2		
			632200CA-1**	632200CEA-1**	99.50mm Grade A/-22cc Dish	8.5	-		
			632200CB-1**	632200CEB-1**	99.50mm Grade B/-22cc Dish	8.5	-		
			632200C-4	632200CE-4	99.50mm/-22cc Dish	8.5	-		
			632201C-4	632201CE-4	99.55mm/-22cc Dish	8.5	-		
			632202C-4	632202CE-4	99.75mm/-22cc Dish	8.5	-		
			632205C-4	632205CE-4	100.00mm/-22cc Dish	8.5	-		
			632800CA-1**	632800CEA-1**	99.50mm Grade A/-17cc Dish	9.0	8.5		
			632800CB-1**	632800CEB-1**	99.50mm Grade B/-17cc Dish	9.0	8.5		
			632800C-4	632800CE-4	99.50mm/-17cc Dish	9.0	8.5		
			632801C-4	632801CE-4	99.55mm/-17cc Dish	9.0	8.5		
			632802C-4	632802CE-4	99.75mm/-17cc Dish	9.0	8.5		
			632805C-4	632805CE-4	100.00mm/-17cc Dish	9.0	8.5		
			632300C-4	632300CE-4	99.50mm/-10cc Dish	9.8	9.2		
			632302C-4	632302CE-4	99.75mm/-10cc Dish	9.8	9.2		
632305C-4	632305CE-4	100.00mm/-10cc Dish	9.8	9.2					

Subaru EJ25 Stroker Series 2.6L

"Turbo Tuff" Billet 83mm Stroke Crank

Crank P/N Type	Rod P/N Description	Bearing P/N Description	Standard Piston P/N	Extreme Duty P/N	Piston Description	Comp Ratio 51cc		
190060B Billet	14024-4 130.5mm H-Beam or 15024-4 130.5mm H-Tuff or 15024R6-4 130.5mm H-Tuff Plus or 14416-4 130.5mm TT I-Beam	30070 or 30070X* Rod & 33070 or 33070X* Mains	PLATINUM SERIES					
			622000C-4	-----	99.50mm/-26cc Dish	8.5		
			622002C-4	-----	99.75mm/-26cc Dish	8.5		
			622005C-4	-----	100.00mm/-26cc Dish	8.5		
			622100C-4	-----	99.50mm/-14cc Dish	9.8		
			622102C-4	-----	99.75mm/-14cc Dish	9.8		
			622105C-4	-----	100.00mm/-14cc Dish	9.8		
			632400C-4	632400CE-4	99.50mm/-26cc Dish	8.5		
			632402C-4	632402CE-4	99.75mm/-26cc Dish	8.5		
			632405C-4	632405CE-4	100.00mm/-26cc Dish	8.5		
			632500C-4	632500CE-4	99.50mm/-14cc Dish	9.8		
			632502C-4	632502CE-4	99.75mm/-14cc Dish	9.8		
			632505C-4	632505CE-4	100.00mm/-14cc Dish	9.8		

Note: "TT" = "Turbo Tuff" design rod **These pistons feature skirt diameters that correspond to the OEM Grade A or B bores. Check the bore grades on the top of your block and order the appropriate quantities of Grade A or B pistons. (Sold as -1 individual pieces, not sets.)

* HX Series Bearings

Short Sleeve T-Shirts

► Made with a 60% cotton/40% polyester blend, the Manley logo is shown vertically on the front with a piston/connecting rod design on the back that is made up of the Manley logo.

Size	Black Part No.	Gray Part No.
Small	00005	00035
Medium	00004	00034
Large	00003	00033
X Large	00002	00032
XX Large	00001	00031



Gray T-Shirt Front



Black T-Shirt Back

Black Ladies Fit Tops

► Same 60% cotton/40% polyester blend and printed design as our t-shirts except in a comfortable ladies fit top.

Size	Part No.
Small	00065
Medium	00064
Large	00063
X Large	00062
XX Large	00061



Ladies Fit Front



Ladies Fit Back

Black Pullover Hoodies

► Pullover style made with a 50% cotton/50% polyester blend with a full front pocket.

Size	Hoodie Part No.
Small	00205
Medium	00204
Large	00203
X Large	00202
XX Large	00201



Hoodie Front



Hoodie Back Design

FLEXFIT® Brand Fitted Hats

► Available in two sizes; S-M and L-XL, these black 98% cotton hats feature the Manley logo embroidered in black and gray on the front left.

Size	Part No.
S-M	00010
L-XL	00012



Embroidered Mechanics Apron

- ▶ Attractive black cotton/polyester with embroidered Manley logo in red and white
- ▶ Large twin front pockets

Size	Part No.
Fits All	42014



Vinyl Printed Banners

Smaller Size White, Red and Black Design

- ▶ Made from durable 13-oz. vinyl material with 10 grommets around the border for easy hanging

Size	Part No.
52" x 19"	00008



Larger Size White, Red and Black Design

- ▶ Made from durable 13-oz. vinyl material with 10 grommets around the border for easy hanging

Size	Part No.
96" x 30"	00008TS



Larger Size White and Red Design

- ▶ Made from durable 13-oz. vinyl material with 8 grommets around the border for easy hanging

Size	Part No.
72" x 36"	00013



Premium Quality Polyester Lanyard

- ▶ Printed with the MANLEY® Powers the Winners logo on both sides and a Lobster Claw Lanyard Attachment

Size	Part No.
5/8" x 36"	LAN-BLACK



PERFORMANCE BY THE NUMBERS...

Manley presents some handy charts and formulas to guide you in building engines.

ENGINE DISPLACEMENT

Calculating Cubic Inches

Multiply bore x bore x stroke x number of cylinders x .7854
Example: $4.030 \times 4.030 \times 3.480 \times 8 \times .7854 = 355.1$ cubic inches

Converting Cubic Inches to Liters

Multiply the cubic inches by .01639
Example: $427 \times .01639 = 6.997$ liters

Converting Cubic Centimeters (cc's) To Cubic Inches

Multiply the cubic centimeters by .06102
Example: $1500\text{cc} \times .06102 = 91.53$ cubic inches

FUEL FLOW

Converting Cubic Centimeters Per Minute To Pounds Per Hour

Divide the cc/min. by 10.5
Example: $400 \div 10.5 = 38$ lbs. per hour

Converting Pound Per Hour Into Gallons Per Hour

Divide the lbs./hr. by 6
Example: $300\text{lbs./hr} \div 6 = 50$ GPH

Converting Cubic Centimeters Per Minute To Gallons Per Hour

Multiply the cc/min. by .015873
Example: $400 \times .015873 = 11.17$ GPH

AIR FLOW

CFM- Carburetor Air Flow Requirement (4 Stroke Engine)

Multiply CID x RPM x VE and Divide by 3456
CID is displacement. RPM is engine speed, VE is volumetric efficiency (1)
Example: $427 \times 6000 \times 1 \div 3456 = 741$ CFM
(note: racing engines use VE of 1, street engines use a VE of .85)

CONVERSIONS

METRIC CONVERSION CHART

QUANTITY	METRIC UNIT	SYMBOL	APPROXIMATE CONVERSION FACTOR(S)	
----------	-------------	--------	----------------------------------	--

Length	millimeter	mm	1mm = 0.039	1 in = 25.4mm
	killometer	km	1 km = 0.62 mile	1 mile = 1.61 km

Mass	gram	g	1 g = 0.035 oz.	1 oz = 28.4 g
	kilogram	kg	1 kg = 2.2 lb	1 lb = 0.45 kg

Area	square millimeter	mm ²	1 mm ² = 0.002 in ²	1 in = 645 mm ²
	square cenimeter	cm ²	1 cm ² = 0.15 in ²	1 in = 6.45 cm ²

Volume	cubic centimeter	cm ³	1 cm ³ = 0.06 in ³	1 in = 16.4 cm ³
--------	------------------	-----------------	--	-----------------------------

Volume (Liquids)	Liter	L	1 L = 0.22 gal.	1 gal = 4.55 L
	cubic inch	in ³	1 in ³ = .01639 liter	1 liter = 61.2545 in ³

Flow	liter/sec	l/s	1 l/s = 0.22 gal/sec	1 gal = 4.55 l/s
------	-----------	-----	----------------------	------------------

Force	Newton meter	Nm	1 Nm = 8.85 lb in	1 lb in = 0.11 Nm
			1 Nm = 0.74 lb ft	1 lb ft = 1.36 Nm

Pressure Vacuum	kilopascal	kPa	1 kPa = 0.15 lb/in	1 lb/in = 6.89 kPa
	kilopascal	kPa	1 kPa = 0.30 in Hg	1 in/Hg = 3.39 kPa

Spring Rate	newton/millimeter	N/mm	1 N/mm = 5.7 lb in	1 lb in = 0.10 N/mm
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Temperature	°C (Celsius)	°C	°C - 5/9 (°F - 32)	°F = 9/5 °C + 32
-------------	--------------	----	--------------------	------------------

MANLEY

HAS YOU COVERED FROM 2 TO 10 CYLINDERS....



VALVES

VALVE SPRINGS

VALVE TRAIN HARDWARE

PISTONS

CONNECTING RODS

CRANKSHAFTS

CHEVROLET - FORD - CHRYSLER

VALVES
VALVE GUIDES
VITON SEALS
VALVE LOCKS
TOP COLLARS
LOWER COLLARS
VALVE SPRINGS
VALVE TRAIN
COMPONENT KITS

SPORTSTER - PAN HEAD - SHOVEL HEAD

EVO - TWIN CAM - BUELL XB9



Visit www.manleyperformance.com for more info

Decimal Conversion Chart

$\frac{1}{64}$ _____ .0156	$\frac{23}{64}$ _____ .3593	$\frac{45}{64}$ _____ .7031
$\frac{1}{32}$ _____ .0312	$\frac{25}{64}$ _____ .3906	$\frac{47}{64}$ _____ .7343
$\frac{3}{64}$ _____ .0468	$\frac{13}{32}$ _____ .4062	$\frac{49}{64}$ _____ .7656
$\frac{1}{16}$ _____ .0625	$\frac{7}{16}$ _____ .4375	$\frac{51}{64}$ _____ .7968
$\frac{5}{64}$ _____ .0781	$\frac{15}{32}$ _____ .4687	$\frac{53}{64}$ _____ .8281
$\frac{3}{32}$ _____ .0937	$\frac{1}{2}$ _____ .500	$\frac{55}{64}$ _____ .8593
$\frac{7}{64}$ _____ .1093	$\frac{17}{32}$ _____ .5312	$\frac{57}{64}$ _____ .8906
$\frac{1}{8}$ _____ .125	$\frac{9}{16}$ _____ .5625	$\frac{59}{64}$ _____ .9218
$\frac{9}{64}$ _____ .1406	$\frac{19}{32}$ _____ .5937	$\frac{61}{64}$ _____ .9531
$\frac{5}{32}$ _____ .1562	$\frac{5}{8}$ _____ .625	$\frac{63}{64}$ _____ .9843
$\frac{11}{64}$ _____ .1718	$\frac{41}{64}$ _____ .6406	$\frac{31}{32}$ _____ .9687
$\frac{3}{16}$ _____ .1875	$\frac{21}{32}$ _____ .6562	1 _____ 1.000
$\frac{13}{64}$ _____ .2031	$\frac{43}{64}$ _____ .6718	
$\frac{7}{32}$ _____ .2187	$\frac{11}{16}$ _____ .6875	
$\frac{15}{64}$ _____ .2343		
$\frac{1}{4}$ _____ .250		
$\frac{17}{64}$ _____ .2656		
$\frac{9}{32}$ _____ .2812		
$\frac{19}{64}$ _____ .2968		
$\frac{5}{16}$ _____ .3125		
$\frac{21}{64}$ _____ .3281		
$\frac{11}{32}$ _____ .3437		

Metric Conversion Chart

0.1mm = 0.00394"	1mm = 0.03937"	30mm = 1.18110"
0.2mm = 0.00787"	2mm = 0.07874"	40mm = 1.57480"
0.3mm = 0.01181"	3mm = 0.11811"	50mm = 1.96850"
0.4mm = 0.01575"	4mm = 0.15748"	60mm = 2.36220"
0.5mm = 0.01969"	5mm = 0.19685"	70mm = 2.75590"
0.6mm = 0.02362"	6mm = 0.23622"	80mm = 3.14960"
0.7mm = 0.02756"	7mm = 0.27559"	90mm = 3.54330"
0.8mm = 0.03150"	8mm = 0.31496"	100mm = 3.93700"
0.9mm = 0.03543"	9mm = 0.35433"	
	10mm = 0.39370"	
	20mm = 0.78740"	

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MANLEY

1960 Swarthmore Avenue
Lakewood, NJ 08701
732.905.3366 Orders & Tech
732.905.3010 Fax
www.manleyperformance.com

designed by:
VISUAL EXPRESSIONS
graphic design and illustration
visualexpressions@yahoo.com