



MM HiFlo ST Engines

4 Cylinder Engines - M10

2002, 320i, 318i ≥'85 - 4 Cyl SOHC Engines		
2200 Sport Engine	155 HP.....	6495 800
2200 Rally Engine	160 HP.....	6995 800
2300 Rally Engine	165 HP.....	7995 800
2400 Rally Engine	170 HP.....	8495 800
2100 FI Engine	12 lbs 275 HP.....	7495 800
2300 FI Engine	12 lbs 300 HP.....	8995 800
2000-2400 Race Engines	180 -240 HP.	8995-11,995 8

Other M10 Race Engines Call 573-765-1269
Add Alternator Bracket: 2002 tii, 320i ('80-'83) & 318i ... 200

6 Cylinder Engines - M30

5, 6, & 7 Series ≥'93 - 6 Cyl SOHC Engines		
3.0cs, Bavaria - 4 Cyl SOHC Engines		
3700 Sport Engine	270 HP.....	7495 800
3700 Rally Engine	285 HP.....	8995 800
3600 FI Engine	12 lbs 450 HP.....	9995 800
M30 Race Engines	Call 573-765-1269	
Additional charge for not having a 3.5 L Block..... 500		

"Baby Six" Engines - M20

325i/e, 528, 525i ≥'91 - 6 Cyl SOHC Engines		
2900 Sport Engine	205 HP.....	7495 800
3000 Sport/Rally	225 HP.....	8995 800
3200 Sport/Rally	230 HP.....	9495 800
3200 Rally Engine	240 HP.....	9995 800
M20 Race Engines	Call 573-765-1269	
Option: MM custom oil pan with crank scrapper for track use 750		

Forced Induction Engines		
2900 FI Engine	250-325 HP.....	9995 800
3100 FI Engine	325-450 HP.....	10,995 800
For ix's, Customer's Core & additional charge 200		

M3 Engines - S14

M3 '88-'91 - 4 Cyl DOHC Engines		
2400 Sport Engine	210 HP.....	9,495 Core*
2500 Rally Engine	255 HP.....	11,495 Core*
2500 Race Engine	285 HP.....	13,995 Core*
2500 FI Engine	300-400 HP.....	12,495 Core*

M5 & M6 Engines - S38/S88

M5 & M6 '85-'93 - 6 Cyl DOHC Engines		
3700 Sport Engine	310 HP.....	11,495 Core*
3700 Rally Engine	350 HP.....	12,995 Core*
3600 FI Engine	12 lbs 550 HP.....	13,995 Core*

*Customer's Own Core Needed
FI = Forced Induction

ST = our Patented Surface Turbulence Treatment
Core Deposit

M42 & M44 Engines

M42: (E30 318is '90-91), (E36 '92-95), (Z3 '95)		
M44: (E36 318ti '96-98), (E36 318i '96-98)		
(Z3 '96-99) - 4 Cyl DOHC Engines		
2000 Sport M42	83.5mm Stroke ... 160 HP.....	7495 800
2100 Rally M42	.....	205 HP..... 9495 800
2000 Sport M44	83.5mm Stroke ... 170 HP.....	7495 1200
2100 Rally M44	.....	190 HP..... 9495 1200
M42 Race Engines Call 573-765-1269		
Forced Induction Engines		
1900 FI M42	.....	200-250 HP..... 7995 800
2100 FI M42	.....	250-325 HP..... 9995 800
2000 FI M44	.....	200-250 HP..... 7995 800
2100 FI M44	.....	250-325 HP..... 9995 1200

M50, M50tu, S50, M52 & S52 Engines

M50 Non-Vanos: (325i/525i '91-92),		
M50tu: (325i/525i '93-95), S50: (M3 '95)		
M52: (328i/528i '96-'97), S52: (M3 '96-99) - 6 Cyl DOHC		
3200 Sport OBD I or II	.....	275 HP.... 10,495 2000-3500
3200 Rally OBD I or II	.....	280-305 HP.... 12,995 2000-3500
3300 Rally OBD I or II	.....	295-315 HP.... 14,995 2000-3500
Forced Induction Engines		
3200 FI OBD I or II	.....	375 - 500 HP.... 13,995 2000-3500
Upcharge (except for S52) NO 89.6mm Crankshaft.....200		

Engine Installations

M10	2002, 2002 tii, 320i, 318i.....	2500	
M30	5, 6 & 7 Series ≥'93, 3.0cs, Bavaria	3000	
M20	325i/e, 528, 525i ≥'91, Euro 323i	3000	
M20	325ix	3500	
S14	M3	3000	
S14 Conversion	into 2002	5000	
S38 & S88	M5, M6, Euro M635csi	3500	
M42	E30 318is '90-'91	3000	
M42 Conversion	into 2002	5000	
M42, M44	E36 318is, 318ti & Z3 '92-98	3000	
M50, M50tu, M52, S50, S52			
3 & 5 Series from '91-'99 & M3 from '95-'99			3500
S52 Conversion	into E30	5000	

Call for pricing on Forced Induction Installations

Above conversion prices apply to the installation of a Metric Mechanic engine only.

MM HiFlo ST Engine Kits

4 Cylinder Engine Kits - M10

2002, 320i, 318i ≥'85

2200 Sport Engine Kit - 155 HP	Core Deposit
Head, HiFlo ST Sport	2295
Head Gasket, 94mm Big Bore	140
Head Bolt Set.....	50
Pistons, 92mm Sport, Hard Anodized 9.75:0 CR....	1000
Rings, 92mm Moly	160
Rods: <i>not provided, factory 2.0 L rods, call if you need help</i>	
Rod Bearing Set, STD	100
Main Bearing Set, STD.....	120
Top End Gasket Set	100
Bottom End Gasket	150
Crankshaft** uses Stock 2 Liter Crank	

2300 Rally Engine Kit - 165 HP

Head, HiFlo ST Sport.....	2295
Head Gasket, 94mm Big Bore.....	140
Head Bolt Set.....	50
Pistons, 92mm Rally, Hard Anodized 10.1:0 CR	1000
Rings, 92mm Moly	160
Rods, "H" Beam 143mm, 4 Oiling Grooves	780
Rod Bearing Set, Coated Tri-Metal	180
Main Bearing Set, Coated	225
Crankshaft 84mm 2.3 S14 (<i>Limited Availability</i>) ...	CALL
Bolt, Washer, Drive Flange, Pulley & Seal	550
Optional: Windage Tray/Scraper Bar	350

2400 Rally Engine Kit - 170 HP

Head, HiFlo ST Sport.....	2295
Head Gasket, 94mm Big Bore.....	140
Head Bolt Set.....	50
Pistons, 92mm Rally, Hard Anodized 10.1:0 CR	1000
Rings, 92mm Moly	160
Rods, "H" Beam, 143mm, 4 Oiling Grooves	780
Rod Bearing Set, Coated Tri-Metal	180
Main Bearing Set, Coated	225
Crankshaft & Kit** 87mm	2450
Includes Crank Sprocket, Bolt, Washer, Drive Flange, Pulley & Seal	
Optional: Windage Tray/Scraper Bar	350

6 Cylinder Engine Kits - M30

3.0cs, Bavaria, 5, 6, & 7 Series ≥'93

3700 Sport Engine Kit - 270 HP	Core Deposit
Head, HiFlo ST Sport.....	2695
Head Gasket, 94.5mm Bore.....	195
Head Bolt Set.....	75
Pistons, 95mm Sport, Hard Anodized 10.1:0 CR....	1500
Rings, 95mm Moly	240
Rods: <i>not provided, factory 3.5i L rods, call if you need help</i>	
Rod Bearing Set, STD.....	150
Main Bearings, STD.....	180
Top End Gasket Set	110
Bottom End Gasket	150
Crankshaft** uses Stock 86mm B34/B35 Crank	

3800 Rally Engine Kit - 285 HP

Head, HiFlo ST Sport.....	2695
Head Gasket, 96mm Bore	195
Head Bolt Set.....	75
Pistons, 96mm Rally, Hard Anodized 10.25:1 CR...	1500
Rings, 95mm Moly	240
Rods, "H" Beam, 143mm, 4 Oiling Grooves.....	1170
Rod Bearing Set, Coated Tri-Metal	270
Main Bearings, Coated	315
Top End Gasket Set	110
Bottom End Gasket	150
Crankshaft** uses Stock 86mm B34/B35 Crank	



Baby 6 Engine Kits - M20

325i/e, 528e, 525i ≥'91

Core Deposit

2900 Sport "I" Engine Kit - 205 HP	
Head, HiFlo ST Sport	2495
Head Gasket, Improved Water Flow	140
Head Bolt Set, 8mm Allen Head Socket	140
Pistons, 2900 Sport, 86mm, Hard Anodized	
Deep Valve Pockets, 10.0:1 CR.....	1500
Rings, Moly 86mm	240
Rods: <i>not provided, factory 2.5i L rods, call if you want help</i>	
Rod Bolt Set	75
Rod Bearing Set	150
Option: Rod Bearing Set, Coated Tri-Metal	270
Main Bearing Set	180
Option*: Main Bearing Set Coated, 360° Oiling Groove	315
<i>* Requires MM to machine the lock-tang grooves on the Main Bearing Caps</i>	
Top End Gasket Set	100
Bottom End Gasket	150
Crankshaft, 81mm Stroke ETA Crank	Call

3000 2926cc Sport/Rally Engine Kit - 225 HP

Head, HiFlo ST Sport.....	2495
Head Gasket, Improved Water Flow	140
Head Bolt Set, 8mm Allen Head Socket	140
Pistons, 3200 Sport, 86mm,	
Hard Anodized 10.0:1 CR	1500
Rings, Moly 86mm	240
Rods, "H" Beam 138mm with 4 Oiling Grooves	1170
Rod Bearing Set, Coated Tri-Metal	270
Main Bearing Set Coated, 360° Oiling Groove	315
<i>* Requires MM to machine the lock-tang grooves on the Main Bearing Caps</i>	
Top End Gasket Set	100
Bottom End Gasket	150
Crankshaft* 84mm Stroke.....	Call
*Crank Seal Spacer, Bolt & Washer,	
required for Crankshaft	200
*Idler Shaft machined for Crank clearance	100
<i>Some block clearancing required for the crankshaft. Call for directions.</i>	

325i/e, 528, 525i ≥'91

Core Deposit

3200 Sport/Rally Engine Kit - 230 HP	
Head, HiFlo ST Sport	2495
Head Gasket, Improved Water Flow	140
Head Bolt Set, 8mm Allen Head Socket	140
Pistons, 3200 Sport, 86mm	
Hard Anodized 10.0:1 CR	1500
Rings, Moly 86mm	240
Rods, "H" Beam, 135mm with 4 Oiling Grooves	1170
Rod Bolt Set,	75
Rod Bearing Set, Coated Tri-Metal	270
Option: Rod Bearing Set, STD.....	150
Main Bearing Set Coated, 360° Oiling Groove.....	315
<i>* Requires MM to machine the lock-tang grooves on the Main Bearing Caps</i>	
Top End Gasket Set	100
Bottom End Gasket	150
Crankshaft**, 89.6mm Stroke	Call
*Crank Seal Spacer, Bolt & Washer,	
required for Crankshaft	200
*Idler Shaft machined for Crank clearance	100
<i>Some block clearancing required for the crankshaft. Call for directions.</i>	

3200 Rally Engine Kit - 240 HP

Head, HiFlo ST Rally	2695
Head Gasket, Improved Water Flow	140
Head Bolt Set, 8mm Allen Head Socket	140
Pistons, 3200 Rally, 86mm	
Hard Anodized 11.0:1 CR	1500
Rings, Moly 86mm	240
Rods, "H" Beam 138mm with 4 Oiling Grooves	1170
Rod Bearing Set, Coated Tri-Metal	270
Main Bearing Set Coated, 360° Oiling Groove.....	315
<i>* Requires MM to machine the lock-tang grooves on the Main Bearing Caps</i>	
Top End Gasket Set	100
Bottom End Gasket	150
Crankshaft** 89.6mm Stroke	Call
*Crank Seal Spacer, Bolt & Washer,	
required for Crankshaft	200
*Idler Shaft machined for Crank clearance	100
<i>Some block clearancing required for the crankshaft. Call for directions.</i>	



M3 Engine Kit - S14

M3 '88-'91

2400 Sport Engine - 210 HP

Core Deposit

Head* HiFlo Sport, 29.5mm Ports	2295	500
Adjusting Shim Pads.....	400	
Cam Box Clearanced for future cam upgrade	150	
Head Gasket.....	140	
Pistons, 95mm, Hard Anodized 11.5:1 CR.....	1000	
Rings, Moly 95mm.....	160	
Rods, use your stock rods.....	0	
Rod Bearing Set STD.....	120	
Main Bearing Set STD	120	
Cornering Baffle.....	50	
EVO Intake Gaskets	220	
Top End Gasket Set.....	100	
Bottom End Gasket.....	150	
Motorsport Front and Rear Crank Seal.80		
Crankshaft uses Stock 84mm, 2.3 Liter Crank		

2500 Rally Engine - 255 HP

Head* HiFlo Rally, 31mm Intake Ports	2495	500
Rally Camshaft	750	300
Cam Box Clearanced for Race Cam	150	
Adjusting Shim Pads	400	
Head Gasket	140	
Pistons, 95mm, Hard Anodized 12.5:1 CR.....	1000	
Rings, Moly 95mm	160	
Rods, "H" Beam, 143mm with 4 Oiling Grooves.....	780	
Rod Bearing, Coated Tri-Metal	180	
Main Bearing Set, Coated.....	225	
Crankshaft, 87mm Stroke	CALL	
Cornering Baffle	50	
Ported Intake Manifolds.....	600	
EVO Intake Gaskets	220	
Top End Gasket Set	100	
Bottom End Gasket	150	
Motorsport Front and Rear Crank Seal....	80	

2500 Race Engine - 285 HP

Head* 31mm Intake Ports.....	2495	500
Race Camshafts, Pair	1500	600
Cam Box Clearanced for Race Cam	150	
Shim-Under 37.5 mm Lifter Bucket System	800	
Lash Caps 7mm, set of 16	96	
Adjusting Shim Pads	600	
Head Gasket	140	
Pistons, 95mm, Hard Anodized 13.5:1 CR.....	1000	
Rings, Moly 95mm	160	
Rods, "H" Beam, 143mm with 4 Oiling Grooves.....	780	
Rod Bearing Set, Coated Tri-Metal	180	
Main Bearing Set, Coated.....	225	
Crankshaft, 87mm Stroke	CALL	
Cornering Baffle	50	
EVO Intake Gaskets	220	
Top End Gasket Set	100	
Bottom End Gasket	150	
Motorsport Front and Rear Crank Seal....	80	
Ported Intake Manifolds.....	750	
Optional: Windage Tray/Scrapper Bar	350	
Optional: Race Oil Pan with Swing Gate & Baffle.....	450	

* NOTE: The S14 has a two piece head. We refer to the Top Section as the "Cam Box" and the Bottom Section as the "Head". During installation, the Head must be bolted to the block first before the Cam Box can be attached.

M5/6 Engine Kits - S38/S88

M5 & M6 '85-'93

3700 Sport Engine - 310 HP

Core Deposit

Head, HiFlo Sport, 29.5mm Intake Ports	2995	Core
Adjust Shim Pads	500	
Head Gasket	195	
Pistons, 95mm, Hard Anodized 11.5 CR.....	1500	
Rings, Moly 95mm	240	
Top End Gasket Set	100	
Bottom End Gasket.....	150	
Motorsport Front and Rear Crank Seal	80	
Rod Bearing Set, STD	150	
Main Bearing Set, STD	250	
Crankshaft, 86mm Stroke.....	750	

3700 Rally Engine - 350 HP

Head, Rally, 31mm Intake Ports.....	2995	Core
Head Gasket	195	
Rally Cam.....	1000	500
Clearance Cam Box for Rally Cam	200	
Adjust Shim Pads	500	
Ported Intake Manifolds	750	
Pistons, 95mm, Hard Anodized 12.5 CR.....	1500	
Rings, Moly 95mm	240	
Rods, "H" Beam 143mm with 4 Oiling Grooves	1170	
Rod Bearing Set, Coated Tri-Metal.....	270	
Main Bearing Set, Coated	315	
Crankshaft, 86mm Stroke.....	750	
Top End Gasket Set	100	
Bottom End Gasket.....	150	
Motorsport Front and Rear Crank Seal	80	

Core: No Deposit required as BMW Owner
Supplies their own Core for rebuilding

The M3, M5 and M6 Engine Kits also need:

With Purchase of complete Kit, we will rebuild your Oil Pump core for \$750
(need \$300 if you do not have a core to send us)

1. Timing Chain, Dual Row
3. Guide Rail
4. Lower Tensioner Rail
5. Upper Tensioner Rail
6. Top Guide Rail
2. Oil Pump Chain



M50/M50tu/M52/S50/S52

3 & 5 Series '92 >

3200 Sport - 275 HP	Core Deposit
Head, Sport/Rally Surface Turbulence/6% Flow Inc	2795 1000
Cams, uses Stock M3, call if you need help sourcing them	
Optional: Cams, Int 262° & Exh 250°	1300 600
Head Gasket, <i>improved water flow</i>	140
Head Bolt Set	60
Pistons, Rally 87mm Forged Alusil Hard Anodized 12.0:1.....	1500
Rings, 87mm Moly Rings	240
Rods, <i>use your stock rods</i>	
Rod Bolt Set	75
Rod Bearing Set, Coated Tri-Metal	270
Optional: Rod Bearing Set, STD.....	150
Main Bearing Set, 360° Thrust & Oiling Groove	315
Machine Lock Tangs in Main Bearing Caps for above set	
<i>You send us your Main Bearing Caps</i>	175
Top End Gasket Set	100
Bottom End Gasket	150
Motorsport Front and Rear Crank Seal.....	80
Crankshaft 89.6mm Stroke	1250

3200 Rally - 280 to 305 HP

Head, Rally Surface Turbulence/6% Flow Increase.....	2795 1000
Cam Pair, Int 262° & Exh 250°	1600 600
Head Gasket, <i>improved water flow</i>	140
Head Bolt Set	60
Pistons, Rally 87mm Forged Alusil, Hard Anodized 12.0:1.....	1500
Rings, 87mm Moly Rings	240
Rods, Rally 138mm "H" Beam 525 grams.....	1290
Rod Bearing Set, Coated Tri-Metal.....	270
Main Bearing Set, 360° Thrust & Oiling Groove	250
Machine Lock Tangs in Main Bearing Caps for above set	
<i>You send us your Main Bearing Caps</i>	175
Top End Gasket Set	100
Bottom End Gasket	150
Motorsport Front and Rear Crank Seal.....	80
Crankshaft 89.6mm Stroke	1250

3300 Rally - 295 to 315 HP

Head, Rally Surface Turbulence/6% Flow Increase.....	2795 1000
Cam Pair, Int 262° & Exh 250°	1300 600
Head Gasket, <i>improved water flow</i>	140
Head Bolt Set	60
Pistons, Rally 87mm Forged Alusil, Hard Anodized 12.0:1.....	1500
Rings, 87mm Moly Rings	240
Rods, Rally 139mm "H" Beam 495 grams.....	1290
Rod Bearing Set, Coated Tri-Metal.....	270
Main Bearing Set, 360° Thrust & Oiling Groove	250
Machine Lock Tangs in Main Bearing Caps for above set	
<i>You send us your Main Bearing Caps</i>	175
Top End Gasket Set	100
Bottom End Gasket	150
Motorsport Front and Rear Crank Seal.....	80
Crankshaft,	
93mm Stroke with custom Timing Chain Sprocket.....	2700

Core: No Deposit required as BMW Owner
Supplies their own Core for rebuilding

M42 Engine Kits

M42: E30 318is '90-91, E36 '92-95, Z3 '95

2000 Sport M42 - 160 HP	Core Deposit
Head, Sport Surface Turbulence/6% Flow Increase	1795 600
Head Upgrade, from 7mm to 6mm Valvetrain	350
Sport Intake Camshaft 258°, 11.15mm Lift	600 250
Head Gasket	140
Head Bolt Set	45
Pistons, Sport 87mm Forged Alusil, Hard Anodized 11.0:1	1000
Rings, 87mm Moly Rings	160
Rod Bearing Set, Coated Tri-Metal.....	180
Optional: Rod Bearing Set, STD.....	100
Main Bearing Set, 360° Thrust & Oiling Groove	120
Machine Lock Tangs in Main Bearing Caps for above set	
<i>You send us your Main Bearing Caps</i>	125
Double Row Timing Chain	100
Optional: Single Row Timing Chain Conversion	
using cam sprockets provided by customer	250
Top End Gasket Set	100
Bottom End Gasket	150
Motorsport Front and Rear Crank Seal.....	80
Crankshaft, Stock M44 83.5mm	Call

2100 Rally M42 - 205 HP

Head, Rally Surface Turbulence/6% Flow Increase.....	1795 600
Cam Pair, Intake 272° & Exhaust 258°	1200 500
Head Gasket	140
Head Bolt Set	45
Pistons, Rally 87mm Forged Alusil, Hard Anodized 11.5:1... 1000	
Rings, 87mm Moly Rings	160
Rods, Rally 138mm "H" Beam 525 grams.....	860
Rod Bearing Set, Coated Tri-Metal.....	180
Main Bearing Set, 360° Thrust & Oiling Groove	120
Machine Lock Tangs in Main Bearing Caps for above set	
<i>You send us your Main Bearing Caps</i>	125
Double Row Timing Chain	100
Optional: Single Row Timing Chain Conversion	
using cam sprockets provided by customer	250
Top End Gasket Set	100
Bottom End Gasket	150
Motorsport Front and Rear Crank Seal.....	80
Crankshaft, 88mm Stroke, modified.....	1800

M50/M50tu/M52/S50/S52 & M42 Heads

include 6% Flow Increase, Surface Turbulence Valves,
Manganese Valve Guides, Viton Valve Guide Seals, Dual Valve
Springs, Lightweight Retainers, Valve Spring Perches & Shims.
Head is glass beaded, cleaned and surfaced before assembly.



M44 Engine Kits

M44: E36 318ti '96-98, E36 318i '96-98, Z3 '96-98

2000 Sport M44 - 170 HP

Head, Sport Surface Turbulence/6% Flow Increase	1995	600
Sport Intake Camshaft 258°, 11.15mm Lift	600	250
Head Gasket	140	
Head Bolt Set	60	
Pistons, 87mm Forged Alusil Hard Anodized 11.0:1	1000	
Rings, 87mm Moly Rings.....	160	
Rod Bearing Set, Coated Tri-Metal.....	180	
Optional: Rod Bearing Set, STD.....	100	
Main Bearing Set, 360° Thrust & Oiling Groove	120	
Machine Lock Tangs in Main Bearing Caps for above set		
<i>You send us your Main Bearing Caps</i>	125	
Double Row Timing Chain	100	
Optional: Single Row Timing Chain Conversion		
using cam sprockets provided by customer	250	
Top End Gasket Set	100	
Bottom End Gasket.....	150	
Motorsport Front and Rear Crank Seal	80	
Crankshaft, Stock M44 83.5mm	Call	

2100 Rally M44 - 190 HP

Head, Rally Surface Turbulence/6 % Flow Increase	1995	600
Cam Pair, Intake 272° & Exhaust 258°.....	1200	500
Head Gasket	140	
Head Bolt Set	60	
Pistons, Rally 87mm Forged Alusil		
Hard Anodized 11.5:1.....	1000	
Rings, 87mm Moly Rings	160	
Rods, Rally 138mm "H" Beam 525 grams.....	780	
Rod Bearing Set, Coated Tri-Metal.....	180	
Main Bearing Set, 360° Thrust & Oiling Groove	120	
Machine Lock Tangs in Main Bearing Caps for above set		
<i>You send us your Main Bearing Caps</i>	125	
Double Row Timing Chain	100	
Optional: Single Row Timing Chain Conversion		
using cam sprockets provided by customer	250	
Top End Gasket Set	100	
Bottom End Gasket.....	150	
Motorsport Front and Rear Crank Seal	80	
Crankshaft, 88mm Stroke, modified	CALL	

M44 Heads

include 6% Flow Increase, Surface Turbulence Valves, Manganese Valve Guides, Viton Valve Guide Seals, Dual Valve Springs, Lightweight Retainers, Valve Spring Perches & Shims. Head is glass beaded, cleaned and surfaced before assembly.



MM HiFlo ST Heads

4 Cylinder - M10

2002, 320i, 318i ≥'85

Core Deposit

Sport Head.....	2295	300
Race Head.....	2795 - 2995	300
Stock Head.....	1795	300

6 Cylinder - M30

3.0cs, Bavaria, 5, 6, & 7 Series ≥'93

Sport Head.....	2695	500
Stock Head.....	2195	500

Baby Six - M20

325i/e, 528e, 525i ≥'91

Sport Head.....	2495	500
Rally Head.....	2695	500
Stock Head.....	1995	500

M3 - S14

M3 '88-'91

Sport Head (29.5mm Ports).....	2295	Core*
Options: Adjusting Shim Pads.....	400	

Rally Head (31mm Ports).....	2495	Core*
Options:		
Rally Camshaft.....	750	
Clearance Cam Box for Rally Cam.....	150	
Adjusting Shim Pads.....	400	
EVO Intake Gaskets.....	220	
Ported Intake Manifolds.....	600	

Race Head (31mm Ports).....	2495	Core*
Options:		
Race Camshafts (2).....	1500	
Clearance Cam Box for Race Cam.....	150	
Adjusting Shim Pads.....	400	
EVO Intake Gaskets.....	220	
Ported Intake Manifolds/Throttle Body.....	850	

Stock Head.....	1995	Core*
Options: Adjusting Shim Pads.....	400	

M5 & M6 - S38 / S88

M5 & M6 '85-'93

Core Deposit

Sport Head, 29.5mm Ports.....	2995	Core*
Options: Adjusting Shim Pads.....	500	

Rally Head, 31mm Ports.....	3295	Core*
Options:		
Rally Camshaft.....	1000	500
Clearance Cam Box for Rally Cam.....	200	
Adjusting Shim Pads.....	500	
Ported Intake Manifolds.....	900	

Stock Head.....	2295	Core*
Options: Adjusting Shim Pads.....	500	

M42 & M44 Engines

M42: (E30 '90-'91), (E36 '92-'95), (Z3 '95)

M44: (E36/5 318ti '96-'98), (E36 318i '96-'98), (Z3 '96-'98)

Sport or Rally Head, M42.....	1795	750
Head Upgrade, from 7mm to 6mm Valvetrain.....	350	
Sport or Rally Head, M44.....	1995	750

Includes 6% Flow Increase, Surface Turbulence Valves, Manganese Valve Guides, MM "Bee Hive" Valve Springs & Lightweight Retainers

M50/M50tu/S50/S52/M52/M52tu/M54

M50 Non-Vanos: 325i, 525i '91-'92

M50tu: 325i, 525i '93-'95

M52: 328i, 528i '96-'97

M52tu: 232i, 328i, 528i, Z3 2.3 & 2.8 '99 -'2000

M54: 325i, 230i '01-'06

S50: M3 '95

S52: M3 '96-'99

Sport or Rally Head.....	2795	1000
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Includes 6% Flow Increase, Surface Turbulence Valves, Manganese Valve Guides, MM "Bee HIve" Valve Springs & Lightweight Retainers

Stock Head.....	2195	
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Stock Head: cleaned, glass beaded, 3 angle valve job, reconditioned valves, manganese bronze valve guides, "Bee Hive" valve springs, & retainers

Core*

No Deposit as BMW Owner Supplies their own Core for rebuilding



Cams & Head Parts

Camshafts

4 Cylinder M10 Sport/Rally Camshaft		
290° Duration/10.75mm Lift.....	600	150
6 Cylinder M30 Sport/Rally Camshaft		
290° Duration/10.75mm Lift.....	750	150
Baby Six M20 Sport Camshaft		
286° Intake Lobe Duration/11.75mm Lift.....	750	150
260° Exhaust Lobe Duration/11.2mm Lift		
Baby Six M20 Rally Camshaft		
286° Intake Lobe Duration/11.75mm Lift.....	850	150
272° Exhaust Lobe Duration/11.75mm Lift		
M3 - S14 Rally Intake Camshaft		
276° Duration/11.3mm Lift.....	750	300
M3 - S14 Race Camshafts		
290° Intake Duration/11.7mm Lift.....	750	300
276° Exhaust Duration/11.3mm Lift.....	750	300
M5/M6 - S38/S88 Rally Intake Camshaft		
276° Duration/11.3mm Lift.....	1000	500
M50, M50tu, M52, S50, S52 Sport Camshaft		
262° Intake Duration/11.15mm Lift	900	500
M50, M50tu, M52, S50, S52 Rally Camshafts		
272° Intake Duration/11.4mm Lift.....	900	500
258° Exhaust Duration/10.9mm Lift.....	900	500
M42 - M44 Sport Intake Camshaft		
258° Intake Duration/11.15mm Lift	600	250
M42 - M44 Rally Camshaft		
272° Intake Duration/11.4mm Lift.....	600	250
258° Exhaust Duration/11.15mm Lift	600	250
M42 - M44 Turbo Camshaft		
258° Intake Duration/11.15mm Lift	600	250
258° Exhaust Duration/11.15mm Lift	600	250

Head & Valve Train Parts

MM Outer Valve Springs	20	Each
<i>Use with stock inner spring on S14, S38, M20 & late M30</i>		
MM Rally Valve Spring Set SOHC	45	Each
<i>for M10 & early M30 Sport/Rally Heads</i>		
<i>also M20 IF you no longer have Inner Spring, Retainer & Perch</i>		
<i>Includes Inner and Outer Spring, Retainer, Perch & Shim</i>		
MM Rally Valve Spring Set DOHC	45	Each
<i>for M42, M44, M50, M50tu, M52, S50, S52 Sport/Rally Heads</i>		
<i>Includes Inner and Outer Spring, Retainer, Perch & Shim</i>		

Head & Valve Train Parts - Continued

NEW Valve Compression Tool for M42, M50, S52-M54		
<i>Sold with Valve Spring Purchase</i>	30	
<i>Sold Alone</i>	50	
Valve Guides, Manganese Bronze	15	Each
Rocker Arms: M10, M20, M30 Inspected, 30% stronger....	40	
Dual Chamber Sprayer Bar M30 Engine	125	
Distributor Cam Conversion Nut M30.....	125	
Adjustable Cam Sprocket M10	175	
Adjustable Cam Sprocket M30	200	
Single Row Timing Chain Conversion, M10.....	200	
Single Row Timing Chain Conversion, S14		
Using Cam Sprockets provided by customer	250	
Single Row Timing Chain Conversion, S14		
Using NEW Cam Sprockets at \$225 each	700	
Single Row Timing Chain Conversion, M42/M44		
Using Cam Sprockets provided by customer	250	
Single Row Timing Chain Conversion, M42/M44		
Using NEW Cam Sprockets at \$50 each	350	

Head Gaskets & Head Bolts

M10 Engines	
Head Gasket, 94mm Big Bore.....	140
S14 Engines	
Head Gasket, 94.5mm.....	140
M30, S38, Engines	
Head Gasket, 94.5mm & 95.5mm.....	195
Baby Six, M20 Engines	
Head Gasket, Improved Water Flow.....	140
Head Bolts, Set of 14 Socket, 10mm x 150mm long	140
M50, M52, S50, S52,	
Head Gasket, Improved Water Flow.....	140

Block Parts

Sport Forged Alusil Vented Pistons		
Hard Anodized - 10.1:1	250	Each
Rally Forged Alusil Vented Pistons		
Hard Anodized - 10.25 - 11.0:1	250	Each
Moly Rings.....	40	Each
Rally Rods "H" Beam	195	Each
Rod Bearing, Coated Tri-Metal.....	45	Each
Main Bearing, Coated & 360° Oil Groove	45	Each
<i>Required on the 360° Main Bearings: Labor for machining</i>		
<i>Main Bearing Cap Lock Tang groove</i>	25	Per Cap



Ultimate Transmission Rebuilds

4 Cylinder Getrag Transmissions

Core Deposit

320i ≥ '80 -'82

Getrag 2452995 700

Getrag 245 Sport OD3995 700

318i ≥ '85, 318is '89-'90,

Getrag 2402995 500

Getrag 240 Sport OD3995 500

2002, 320i Race ≥ '79

Getrag 242, Close Ratio 4 Speed3995 500

6 Cylinder Getrag Transmissions

E28 5-Series, E24 6-Series, E23 7-Series

from '80 ≥ '82 + '85, & E30 M3 '88 ≥ '91

Getrag 2653295 700

Getrag 265 Sport OD4295 700

Euro 635csi & M535i '79 ≥ '84

Getrag Sport 262, 265 Sport CR3495 1500

E30 325i & 325e - all years

E28 5-Series '84, '86-'88, E24 6-Series '84, '86-'89

Getrag 2602995 600

Getrag 260 Sport OD4295 600

Euro 635csi & M535i '79 ≥ '84

Z3 1.9 & 2.5, E36 325i & 323i, E46 323i '92 >

Getrag 2502995 700

M5, M6 '87 ≥ '91 + Euro M5/M6 '85 ≥ '91

Getrag 280 Instead of a 280 rebuild, we provide the MM

265 Getrag Conversion4195 None

E46 M3 2001-2007, 540i, M5, Z8, Euro E36 M3

Getrag 4204595 Your Core

6 Cylinder ZF Transmissions

E36: M3, 328i, E46: 328i, 330i, E39: 528i, 530i

ZF S5-313195 800

E46: 330i '04 > + 530i '04 >

ZF S6-373695 800

Ultimate Transmission Conversions

5 Speed Conversions

Core Deposit

Getrag 245 + Kit for 2002 4 Speed5495 200

Getrag 245 + Kit for 2002 4 Speed
Used Transmission, Inspected and Sealed3495 200

MM 5 Speed Kit Only with 4 Bolt Flange
No Transmission1795 200

MM 5 Speed Kit Only with 3 Bolt Flange
No Transmission1995 200

MM Crossmember Mount 450

ZF S5-31 CR + Kit for 325i/e '84 -'91 5495 200

ZF S5-31 CR + Kit for 325i/e '84 -'91
Used Transmission, Inspected and Sealed2995 200

Getrag 265 + Kit Conversion for 280 M5/M6

Alternative Upgrade for the Stock 280 Getrag4195

Getrag 265 + Kit Conversion for 280 M5/M6

Alternative Upgrade for the Stock 280 Getrag

Used Transmission, Inspected and Sealed2995

Transmission Installations

5 Speed 600

6 Speed 850

5 Speed Conversions1000 - 1400

CR = Close Ratio

OD = Overdrive

MM = Metric Mechanic



Differentials

MM Variable Limited Slips

All BMW Models ≥'98, (includes 2002, E9, E21, E12, E23, E24, E28, E30, E31, E32, E34, E36/M3, E36/5, 318ti, Z3, Z3M Coupe and Z3M Roaster: 1st Gen -168 & 188 Differentials- Z3, M23, M23 Coupe

Variable Limited Slip 2 Disc	1395	300-600
Sport Variable Limited Slip 3 Disc	1595	300-600
Rally Variable Limited Slip 4 Disc	1795	300-600
Race Variable Limited Slip 5 Disc.....	1995	300-600
Standard LS Differentials	1295	600
Standard Open, Non Limited Slip	1095	600
E9 Sideloader, Non Limited Slip	1395	600
E9 & E12 Sideloaders, Prices Vary	1995	600 +
2002 LS Conversion Flanges Pair	650	
<i>If you have 320i Limited Slip Flanges to send in, you will be refunded \$200</i>		
Additional Charge for Gear Change Ratio	250/450	
Metric Mechanic Differential Installations.....	400	

E46, E39 (6 cyl. only) '99 and later, 2nd Gen -188 Differentials

Sport Variable Limited Slip 3 Disc	2695	500
Additional Charge for Gear Change Ratio	450+	
Replace Differential Bushings.....	200	
HiTorque Flanges, Pair.....	800	
Metric Mechanic Differential Installations.....	400	

All M5's, 8 Series, E32 740i & 750i - 1st Gen 210 Differentials

(Excluding E60 & E65)

Sport Variable Limited Slip 2 Disc	1995	500
Additional Charge for Gear Change Ratio	450-750	
Metric Mechanic Differential Installations.....	600	

E39-540i, E38-740i - 2nd Gen - 210 Differentials

Z8, E52 - 2nd Gen - 210/215 Differentials

Quaife

Conversion/Retrofit	1500	No Deposit
Metric Mechanic Differential Installations.....	600	

Owner must provide their own Quaife Unit & Core
Please call for gear options & more information.

E90, 323i, 325i, 328i, 330i, 2004 > 3rd Gen -188 Differentials

Quaife

Conversion/Retrofit with carrier tapered Roller Bearing for greater load carrying capacity	1800	No Deposit
Metric Mechanic Differential Installations.....	600	

Owner must provide their own Quaife Unit & Core

E90 & E92 335i 2006 > 3rd Gen 210/215 Differentials

Quaife

Conversion/Retrofit with carrier tapered Roller Bearing for greater load carrying capacity	1800	No Deposit
Metric Mechanic Differential Installations.....	600	

Owner must provide their own Quaife Unit & Core

Flywheels & Clutch Assemblies

Lightened Single Mass Flywheels

Most Models ≥'88, Including E30 M3 & E34 M5
Using a single stock mass Flywheel 450 Core Deposit 200

Models '89 >
With Dual Mass Flywheels, require Conversions shown below

Converting from Dual to Single Mass - Lightened Flywheel & Clutch Combinations

E30 325i/s with a MM 3000 or 3200 Rally Engine
MM 12 lb. Lightened Single Mass Flywheel & 240 mm Clutch Assembly 1100
M30 Flywheel required for core deposit refund..... 200

E30 318is & All 4 Cyl E36 & Z3 Models

MM 11 lb. Lightened Single Mass Flywheel & 228 mm Clutch Assembly 1150
M42 or M44 Flywheel Ring Gear required for core deposit refund..... *200

E36 325is, '92 - '98

MM 11 lb. Lightened Single Mass Flywheel & 228 mm Clutch Assembly 1150
M50 Flywheel Ring Gear required for core deposit refund..... *200

E36 M3 328i, E34 535i, '89 - '93

MM 12.5 lb. Lightened Single Mass Flywheel & 240 mm Clutch Assembly 1250
M50, M52, S50, S52 Flywheel Ring Gear required for core deposit refund..... *200

* Stock Dual Mass Ring Gear required for core - remove and return or just return the entire Flywheel

Clutch Upgrades

Clutch Assembly 215mm.....	300
Clutch Assembly 228mm.....	375
HiTorque Clutch Assembly 228mm	425
HD Clutch Assembly 240mm	600
HiTorque Clutch Assembly 240mm	750

For Additional Racing Products, please call for more information - 1-573-765-1269

Differential Terminology

LS = Limited Slip
VLS = Variable Limited Slip
1st Gen = Longer Pinion Shaft
2nd Gen = Short Pinion Shaft
3rd Gen = Very Short Pinion Shaft



Intake & Exhaust

Intake

		Core Deposit
M20 Pulse Chamber Intake Manifold	1200	150
M42 Pulse Chamber Intake Manifold	1000	150
Ported Intake Manifolds		
3, 5, 6, 7 Series 1984 - 1991.....	750	150
Ported Intake Manifolds M3 S14 Rally	600	* Core
Ported Intake Manifolds/Throttle Body		
M3 S14 Race	850	* Core
Ported Intake Manifolds		
M5/M6 S38 Rally.....	900	* Core
38 DGES Carburetor Kit & Manifold	850	150

Exhaust

Exhaust Manifolds Ported		
3, 5, 6, 7 Series 1984 - 1991.....	500	150
System 300, E28, E24	1350	
System 300, M5, M6	1350	

Core*

No Deposit as BMW Owner Supplies their own Core for rebuilding