



THE REMACK® DIFFERENCE

PRODUCT TECHNICAL APPLICATION GUIDE

TABLE OF CONTENTS

BASIC ENGINES	1
E7 PLN	
E7 E-TECH™	
E7 ASET™	
MP7	
MP8	9
MP10	
BASIC ENGINE INSTALLATION KITS	
REMACK® 7/8 ENGINES	
SHORT BLOCKS	
FLYWHEELS	
CONNECTING RODS	
MUZZLE LOADERS™	
MUZZLE LOADERS™OVERHAUL KITS	
CYLINDER HEADS	26
IDLER GEARS	
INJECTION PUMPS	30
NOZZLE ASSEMBLIES	
INJECTORS	
REMACK® SIX-PACK INJECTOR KITS	
OIL PUMPS	40
WATER PUMPS	
OIL COOLER ASSEMBLIES	
REVERSING RELAYS	
ROCKER ARM ASSEMBLIES	
TACH DRIVE ASSEMBLIES	
FUEL SUPPLY PUMPS	
V-MAC® ENGINE CONTROL MODULES	
ENGINE CONTROL UNIT	
EGR VALVES	
TURBO ACTUATORS	
TURBO COMPOUND UNIT	
TURBO KITS	
TRANSMISSIONS	
SYNCHRONIZED T200 TRANSMISSIONS	
SYNCHRONIZED T300 TRANSMISSIONS	
T300 SYNCHRONIZER REPLACEMENT KIT	
mDRIVE™ - D-SERIES	
mDRIVE™ - F-SERIES	
TRANSMISSION RANGE SECTION	
CLUTCH CONTROL ACTUATOR	
CONTROL UNITS, CYLINDER HOUSINGS, TOP COVERS	
TRANSMISSION FRONT TOP COVER ASSEMBLIES	
REAR COMPOUND SHIFT COVERS	
CARRIERS	
CARRIERS: REMAN VS. REBUILDER SERIES™	
REMACK® POWER DIVIDER LOCK OUT KITS	72
CARRIER RATIO CONVERSION FOR NEW MODEL CHASSIS	73
DEE BLIMP	75

BASIC ENGINES - E7 PLN

PART NUMBER	E7 PLN BASIC ENGINE APPLICATION
86SB3511 86SB3511P2	E7 PLN Non V-MAC prior to 1991 models (originally built with 240GC585, 57GC2133 One-Piece Piston or serviced with 240GC590A/5123M, 57GC2189A, 57GC3118 Two-Piece Piston) (732GB3452MX Heads)
86SB3512 86SB3512P2	E7 PLN V-MAC prior to 1991 models (originally built with 240GC585, 57GC2133 One-Piece Piston or serviced with 240GC590A/5123M, 57GC2189A, 57GC3118 Two-Piece Piston) (732GB3452MX Heads)
86SB3514 86SB3514P2	E7 PLN models (with 240GC590A/ 591 , 57GC 2143 , 215SB 232 Two-Piece Piston) (732GB 3451MX Heads) (Supersedes 86SB3513/3513P2)
86SB3515	E7 PLN (with 240GC590A/ 591 , 57GC 2143 , 215SB 232 Pistons) Jacobs® Brake* or Non-Brake applications (732GB 3466MX)
86SB3516	E7 PLN (with 240GC590A/596, 57GC2151A, 215SB230 Pistons) Jacobs® Brake* or Non-Brake applications (732GB3466MX Heads) (454GC5142 Camshaft)
86SB3516P3	E7 PLN (with 240GC590A/ 596 , 57GC 2151A , 215SB 230 Pistons) Jacobs® Stealth™ Ready (732GB 3469MX Heads) (454GC 5142 Camshaft)
86SB3517	E7 PLN (with 240GC590A/597, 57GC2152 Pistons) Jacobs® Brake* or Non-Brake applications (732GB3466MX Heads) (454GC5142 Camshaft)

^{*} Requires 466GC468MX Rocker Arm Assemblies, 891GC46AM Valve Yokes and Jacobs® Engine Braking Components.

Note: "P2" designates Dynatard® Brake (Dynatard® Camshaft). Plain numbers (without "P2") are Jake brake ready or non-brake. **Note:** "P3" designates Jacobs® Stealth™ ready (see features).

WARRANTY: E7 PLN Basic Engine warranty is two years / unlimited miles.

BASIC ENGINES - E7 PLN

PART NUMBER	E7 PLN BASIC ENGINE APPLICATION
86SB3518	E7 PLN (with 240GC590A/598, 57GC2153A, 215SB231 Pistons) Jacobs® Brake* or Non-Brake applications (732GB3466MX Heads) (454GC5142 Camshaft)
86SB3519	E7 PLN (with 240GC590BM/ 596AM , 57GC 2151A , 215SB 230 Pistons) Jacobs® Brake* or Non-Brake applications (732GB 3466MX Heads) (454GC 5205 Camshaft)
86SB3519P3	E7 PLN (with 240GC590BM/ 596AM , 57GC 2151A , 215SB 230 Pistons) Jacobs® Stealth™ Ready (732GB 3469MX Heads) (454GC 5205 Camshaft)
86SB3520	E7 PLN (with 240GC590BM/ 598AM , 57GC 2153A , 215SB 231 Pistons) Jacobs® Brake* or Non-Brake applications (732GB 3466MX Heads) (454GC 5205 Camshaft)
86SB3521	E7 PLN (with 240GC590BM/597, 57GC2152 Pistons) Jacobs® Brake* or Non-Brake applications (732GB3466MX Heads) (454GC5205 Camshaft)

^{*} Requires 466GC4102MX Rocker Arm Assemblies, 891GC223M Valve Yokes and J-TECH™ Engine Braking Components.

Note: "P2" designates Dynatard® Brake (Dynatard® Camshaft). Plain numbers (without "P2") are Jake brake ready or non-brake. **Note:** "P3" designates Jacobs® Stealth™ ready (see features).

WARRANTY: E7 PLN Basic Engine warranty is two years / unlimited miles.

BASIC ENGINES - E7 E-TECH™

PART NUMBER	E7 E-TECH™ BASIC ENGINE APPLICATION
86SB3525 86SB3525P4	E7 E-TECH™ (with Tube Type Oil Cooler 312GB 3100AM and Camshaft Arrangement 454GC 4256P3).
86SB3526 86SB3526P4	E7 E-TECH™ (with Tube Type Oil Cooler 312GB 3100AM and Camshaft Arrangement 454GC 4256P2).
86SB3527 86SB3527P4	E7 E-TECH™ (with Tube Type Oil Cooler 312GB 3100AM and Camshaft Arrangement 454GC 4254 , or 454GC 4256).
86SB3528 86SB3528P4	E7 E-TECH™ (with Plate Type Oil Cooler 312GB 569M/575M and Camshaft Arrangement 454GC 4256P3).
86SB3529 86SB3529P4	E7 E-TECH™ (with Plate Type Oil Cooler 312GB 569M/575M and Camshaft Arrangement 454GC 4256P2).
86SB3530 86SB3530P4	E7 E-TECH™ (with Plate Type Oil Cooler 312GB 569M/575M and Camshaft Arrangement 454GC 4256).
86SB3531 86SB3531P4	E7 E-TECH™ CCRS. applications with Camshaft Arrangement 454GC 4263.
86SB3539	E7 E-TECH™ CCRS. Power Leash™ Engine Brake equipped with Camshaft Arrangement 454GC 4260A . Use 86SB3546 for Non-Brake applications.
86SB3546	E7 E-TECH™ CCRS. Non-Brake applications with Camshaft Arrangement 454GC 4260A

Note: "P4" designates E-TECHTM "J-TECHTM" Engine Brake Ready (see features). Basic Engine features are listed on page 10.

WARRANTY: E7 E-TECH™ Basic Engine warranty is two years / unlimited miles.

BASIC ENGINES – E7 ASET™ IEGR

PART NUMBER	E7 ASET™ IEGR (AI) BASIC ENGINE APPLICATION
86SB3532	E7 ASET™ IEGR (AI) (with 240GC590BM/5126M, 240GC590BM/5127M, 240GC2261M, 240GC2262M, 57GC2215, 57GC2216 Pistons) J-TECH™ Brake* or Non-Brake applications with 454GC4264** or 454GC4265 Camshaft Arrangement.
86SB3533	E7 ASET™ IEGR (AI) (with 240GC590BM/5128M, 240GC2263M, 57GC2217 Pistons) J-TECH™ Brake* or Non-Brake applications with 454GC4264** or 454GC4265 Camshaft Arrangement.
86SB3534	E7 ASET™ IEGR (AI) (with 240GC590BM/5126M, 240GC590BM/5127M, 240GC2261M, 240GC2262M, 57GC2215, 57GC2216 Pistons) Power Leash™ Engine Brake equipped with 454GC4264 Camshaft Arrangement. Use 86SB3544 for non-brake applications.
86SB3535	E7 ASET™ IEGR (AI) (with 240GC590BM/5128M, 240GC2263M, 57GC2217 Pistons) Power Leash™ Engine Brake equipped with 454GC4264 Camshaft Arrangement. Use 86SB3545 for non-brake applications.
86SB3544	E7 ASET™ IEGR (AI) (with 240GC590BM/5126M, 240GC590BM/5127M, 240GC2261M, 240GC2262M, 57GC2215, 57GC2216 Pistons) Non-Brake applications with 454GC4264** Camshaft Arrangement.
86SB3545	E7 ASET™ IEGR (AI) (with 240GC590BM/5128M, 240GC2263M, 57GC2217 Pistons) Non-Brake applications with 454GC4264** Camshaft Arrangement.

^{*} Requires 466GC4102MX Rocker Arm Assemblies, 891GC223M Valve Yokes and J-TECH™ Engine Braking Components.

Note: "P4" designates E-TECHTM "J-TECHTM" Engine Brake Ready (see features). Basic Engine features are listed on page 10.

WARRANTY: E7 ASET™ Basic Engine warranty is two years / unlimited miles.

^{**} Note: From mid-July 2002 (Engine Serial Number 2N), camshaft 454GC4264 was changed and can no longer be used in J-TECH™ Brake applications. All ASET (Al) engine applications with J-TECH™ must use camshaft 454GC4265. See Service Bulletin #SB213035.

BASIC ENGINES – ASET™ CEGR

PART NUMBER	E7 ASET™ CEGR (AC) BASIC ENGINE APPLICATION
86SB3536	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) J-TECH™ Brake* or Non-Brake applications with 454GC4263 Camshaft Arrangement.
86SB3537	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) J-TECH™ Brake* or Non-Brake applications with 454GC4267 Camshaft Arrangement.
86SB3538	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) Power Leash™ Engine Brake equipped with 454GC4268 Camshaft Arrangement. Use 86SB3543 for non-brake applications.
86SB3540	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) Power Leash™ Engine Brake equipped with 454GC4271 Camshaft Arrangement. Use 86SB3542 for non-brake applications.
86SB3541	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) J-TECH™ Brake* or Non-Brake applications with 454GC4272 Camshaft Arrangement.
86SB3542	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) Non-Brake applications with 454GC4271 Camshaft Arrangement.
86SB3543	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) Non-Brake applications with 454GC4268 Camshaft Arrangement.

^{*} Requires 466GC4102MX Rocker Arm Assemblies, 891GC223M Valve Yokes and J-TECH™ Engine Braking Components.

Other E-TECH™ and ASET™ Engine features:

- New style valve yokes with updated flanged jam nut design.
- Variable length push rod tubes with latest roller lifters.
- Camshaft surface finish meets current OEM specifications.
- Rocker arm assemblies utilizing the direct oil feed adjusting
- EUP roller tappets (included) with the updated roller profile.



PART NUMBER	MP 7 BASIC ENGINE APPLICATION
85001334	MP7 EPA 04 with Engine Brake and Allison Trans. utilizing flywheel housing P/N 20939677 or 20939568 (Flywheel housing total width of 179mm / 7.05") applications. (Non-DPF System Model). Services 21121899
85001335	MP7 EPA 04 with Engine Brake, utilizing flywheel housing P/N 20939679 (Flywheel housing total width of 204mm / 8.03") applications. (Non-DPF System Model). Services 21121899
85001629	MP7 EPA 07 with Engine Brake utilizing flywheel housing P/N 20939679, 20955338 or 21386328 (Flywheel housing total width of 204mm / 8.03") applications. Services 20475004, 20475006
85001669	MP7 EPA 07 with Engine Brake utilizing flywheel housing P/N 20955334 or 21513982 (Flywheel housing total width of 179mm / 7.05") applications. Services 20475004, 20475006
85001630	MP7 EPA 07 with No Engine Brake utilizing flywheel housing P/N 20939679, 20955338 or 21386328 (Flywheel housing total width of 204mm / 8.03") applications. Services 20475005, 20475007
85001670	MP7 EPA 07 with No Engine Brake utilizing flywheel housing P/N 20955334 or 21513982 (Flywheel housing total width of 179mm / 7.05") applications. Services 20475005
85003639*	MP7 EPA 10 / OBD 13 with Engine Brake utilizing flywheelhousing P/N 20955334 or 21513982 (Flywheel housing total width of 179mm / 7.05") applications. Services 21976425, 21980849, 22222930, 22222962, 85013864, 85013870
85013869*	MP7 EPA 10 / OBD 13 with No Engine Brake utilizing flywheel housing P/N 20955334 or 21513982 (Flywheel housing total width of 179mm / 7.05") applications. Services 21400864, 21400866, 21728548, 21728550, 21976437, 21980850, 22233094, 22233116, 85003641, 85013863
85013868*	MP7 EPA 10 / OBD 13 with Engine Brake utilizing flywheel housing P/N 20939679, 20939675, 20955338 or 21386328 (Flywheel housing total width of 204mm / 8.03") applications. Services 21400863, 21400865, 21728549, 21828547, 21975547, 21975549, 21996863, 21996868, 22222926, 22222929, 22222931, 22222935, 85013862, 85013866, 85013872

WARNING: Use of a basic engine other than what is listed above may result in engine failure or unsatisfactory performance, and will void engine warranty.

WARRANTY: MP7 Basic Engine warranty is two years / unlimited miles or three years / 350,000 miles as part of the Mack Overhaul Program.



MP 7 BASIC ENGINE APPLICATION
MP7 EPA 10 / OBD 13 with No Engine Brake utilizing flywheel housing P/N 20939679, 20939675, 20955338 or 21386328 (Flywheel housing total width of 204mm / 8.03") applications. Services 21400864, 21728548, 21728550, 21975548, 21975550, 21996867, 21996869, 22222927, 22222933, 22222937, 85003645, 85013861, 85013865, 85013867
MP7 EPA14/OBD15/OBD16 with Engine Brake, utilizing flywheel housing P/N 20955388, 20939679 or 21386343. (Flywheel housing total width of 204mm / 8.03".) Services 22288160, 22288165, 22288167, 22288171, 22573422, 22573440, 22573450, 22573487, 85013997, 85020392, 85020396, 85020400.
MP7 EPA14/OBD15/OBD16 with Engine Brake, utilizing flywheel housing P/N 20955334, 21515910. (Flywheel housing total width of 179mm / 7.05".) Services 22288162, 22288169, 22340046, 22340062, 22573423, 22573429, 22573444, 22573471, 85013993, 85020073, 85020075, 85020387, 85020393, 85020398.
MP7 EPA14/OBD15/OBD16 without Engine Brake, utilizing flywheel housing P/N, 20939679, 20955338 or 21386343. (Flywheel housing total width of 204mm / 8.03".) Services 22288161, 22288166, 22573424, 22573445, 22288172, 22288168, 22573488, 22573467, 85013996, 85020388, 85020397, 85020401.
MP7 EPA14/OBD15/OBD16 without Engine Brake, utilizing flywheel housing P/N 20955334 or 21515910. (Flywheel housing total width of 179mm / 7.05".) Services 22288163, 22288170, 22340051, 22340068, 22573428, 22573433, 22573446, 22573486,85020389, 85020391, 85020399.

Part number with an asterisk (*) denotes a bridge engine which can service more than one EPA variant. To order a bridge engine contact Parts Services at 887-447-2787. Please be ready to provide the VIN of the truck so the correct EPA engine label can be printed and installed on the engine for shipment.



	PART NUMBER	MP 7 BASIC ENGINE APPLICATION
	85021474*	MP7 EPA 17 / OBD 18 / OBD19 with Engine Brake utilizing flywheel housing 22417822 or 23030732 (Flywheel Housing total width of 204 mm (8.03 in)) applications. Services 22997162, 22998016, 22998026, 22998030 23353004, 23353011, 23353090, 23353097.
	85021479*	MP7 EPA 17 / OBD 18 / OBD19 with Engine Brake utilizing flywheel housing 22417820 or 23030729 (total width of 179 mm (7.05 in)) applications. Services 22997169, 22998009, 22998017, 2998028, 23353006, 23353010, 23353012, 23353095.
	85021476*	MP7 EPA 17 / OBD 18 / OBD19 with No Engine Brake utilizing flywheel housing 22417822 or 23030732 (Flywheel housing total width of 204 mm (8.03 in)) applications. Services 22997170, 22998018, 22998027, 22998031, 23353007, 23353014, 23353094, 23353100.
	85021481*	MP7 EPA 17 / OBD 18 / OBD19 with No Engine Brake utilizing flywheel housing 22417820 or 23030729 (Flywheel housing total width of 179 mm (7.05 in)) applications. Services 22998007, 22998022, 22998029, 23353009, 23353015, 23353096.
	85022816	MP7 EPA17 OBD20/21 with Engine Brake utilizing flywheel housing P/N 23030732. (Flywheel Housing total width of 204mm / 8.03") and oil pan 23474225. Services 23757258, 23757263, 23757271, 23758108, 85022826, 85022842, 85028108.
	85022820	MP7 EPA17 OBD20/21 without Engine Brake utilizing flywheel housing P/N. 23030732. (Flywheel Housing total width of 204mm / 8.03") and oil pan 23474225. Services 23757260, 23757265, 23757272, 23758109, 85022830, 85022844, 85022852.
	85022824	MP7 EPA17 OBD20/21 with Engine Brake utilizing flywheel housing P/N 23030729. (Flywheel Housing total width of 179mm / 7.05") and oil pan 23474225. Services 23757259, 23757262, 23757264, 23757267, 23758106, 85022818, 85022828, 85022834, 85022846.
	85022838	MP7 EPA17 OBD20/21 without Engine Brake utilizing flywheel housing P/N 23030729. (Flywheel Housing total width of 179mm / 7.05") and oil pan 23474225. Services 23757261, 23757266, 23757269, 23758107, 85022822, 85022832, 85022848.
	85022854	MP7 EPA17 OBD20/21 with Engine Brake utilizing flywheel housing P/N 21868403. (Cast Iron Flywheel Housing total width of 179mm / 7.05") and oil pan 23474225. Services 23758110

WARNING: Use of a basic engine other than what is listed above may result in engine failure or unsatisfactory performance, and will void engine warranty.

oil pan 23474225. Services 23758110.



PART NUMBER	MP 8 BASIC ENGINE APPLICATION
85001623	MP8 EPA07 with Engine Brake. Services 20982249, 20982253, 85001627
85001624	MP8 EPA07 with No Engine Brake . Services 20982250, 20982254, 85001628
85001625	MP8 EPA07 with Engine Brake. Services 20982251
85001626	MP8 EPA07 with No Engine Brake. Services 20982252
85003627*	MP8 EPA 10 / OBD 13 with Engine Brake, utilizing flywheel housing P/N 21184813 or 21547049. (Flywheel housing total width of 179mm / 7.05".) Services 21408574, 21729917, 21976388, 22222970, 85013860
85003629*	MP8 EPA 10 / OBD 13 with No Engine Brake, utilizing flywheel housing P/N 21184813 or 21547049 (Flywheel housing total width of 179mm / 7.05") applications. Services 21408576, 21729918, 21976389, 22233117, 85013860
85003631*	MP8 EPA 10 / OBD 13 with Engine Brake, utilizing flywheel housing P/N 21184809 or 21547051 (Flywheel housing total width of 184mm / 7.24") applications. Services 21408577, 21408585, 21729919, 21729135, 21975553, 21976390, 22222945, 85003635, 85013856, 85013858
85003633*	MP8 EPA 10 / OBD 13 with No Engine Brake, utilizing flywheel housing P/N 21184809 or 21547051 (Flywheel housing total width of 184mm / 7.24") applications. Services 21408578, 21408589, 21729138, 21729920, 21975554, 21976391, 22233119, 22233121, 85003637, 85013855, 85013857
85020409	MP8 EPA14/OBD15/OBD16 with Engine Brake, utilizing flywheel housing P/N 21184813 or 21547049 (Flywheel housing total width of 179mm / 7.05") applications. Services 22289230, 22573575, 85020004.
85020410	MP8 EPA14/OBD15/OBD16 without Engine Brake, utilizing flywheel housing P/N 21184813 or 21547049 (Flywheel housing total width of 179mm / 7.05") applications. Services 22289231, 22573579.
85020411	MP8 EPA14/OBD15/OBD16 with Engine Brake, utilizing flywheel housing P/N 21184809 or 21547051 (Flywheel housing total width of 184mm / 7.24") applications. Services 22289243, 22573586, 85020006.

Part number with an asterisk (*) denotes a bridge engine which can service more than one EPA variant. To order a bridge engine contact Parts Services at 887-447-2787. Please be ready to provide the VIN of the truck so the correct EPA e printed and installed on the engine for shipment.



PART NUMBER	MP 8 BASIC ENGINE APPLICATION
85020412	MP8 EPA14/OBD15/OBD16 without Engine Brake, Conventional Chassis, utilizing flywheel housing P/N 21184809 or 21547051 (Flywheel housing total width of 184mm / 7.24") applications. Services 22289244, 22573588.
85020413	MP8 EPA14/OBD15/OBD16 with Engine Brake, Cab-over Chassis, utilizing flywheel housing P/N 21184809 or 21547051 (Flywheel housing total width of 184mm / 7.24") applications. Services 22289245, 22573591.
85020414	MP8 EPA14/OBD15/OBD16 without Engine Brake, Cab-over Chassis, utilizing flywheel housing P/N 21184809 or 21547051 (Flywheel housing total width of 184mm / 7.24") applications. Services 22289247, 22573592.
85021409*	MP8 EPA 17 / OBD 18 / OBD19 with Engine Brake, utilizing flywheel housing P/N 21347407, 22986940 or 22911776 (Flywheel housing total width of 179 mm (7.05 in)) applications. Services 22953321, 23345963.
85021410*	MP8 EPA 17 / OBD 18 / OBD19 with No Engine Brake, utilizing flywheel housing P/N 21347407, 22986940 or 22911776 (Flywheel housing total width of 179 mm (7.05 in)) applications. Services 22953322, 23345964.
85021411*	MP8 EPA 17 / OBD 18 / OBD19 with Engine Brake, utilizing flywheel housing P/N 21347406 or 22986942 (total width of 184 mm (7.24 in)) applications. Service 22953323, 22953327, 23345965, 23345906.
85021412*	MP8 EPA 17 / OBD 18 / OBD19 with No Engine Brake, utilizing flywheel housing P/N 21347406 or 22986942 (total width of 184 mm (7.24 in)) applications. Services 22953326, 22953328, 23345966, 23345907.
85021588*	MP8 EPA 17 / OBD 18 / OBD19 Turbo Compound utilizing flywheel housing 21347407, 22986940 or 22911776 (total width of 179 mm (7.05 in)) applications. Services 23089826, 23345133.
85023177	MP8 Turbo Compound EPA17 OBD20 With Engine Brake, Utilizing flywheel housing P/N 22911776. (Flywheel Housing total width of 179mm / 7.05") and oil pan 21368390. Services 23808943.
85022856	MP8 EPA21 OBD20/21 with Engine Brake, utilizing flywheel housing P/N 22986940. (Flywheel Housing total width of 179mm / 7.05") and oil pan 23474239. Services 23760017.

WARRANTY: MP8 Basic Engine warranty is two years / unlimited miles or three years / 350,000 miles as part of the Mack Overhaul Program.

BASIC ENGINES -MP8 AND MP10



PART NUMBER	MP 8 BASIC ENGINE APPLICATION
85022858	MP8 EPA21 OBD20/21 Without Engine Brake, utilizing flywheel housing P/N 22986940. (Flywheel Housing total width of 179mm / 7.05") and oil pan 23474239. Services 23760018.
85022860	MP8 EPA21 OBD20/21 with Engine Brake, utilizing flywheel housing P/N 22986942. (Flywheel Housing total width of 184mm / 7.24") and oil pan 23474239. Services 23760019, 23760021, 85022864.
85022862	MP8 EPA21 OBD20/21 Without Engine Brake utilizing flywheel housing P/N 22986942. (Flywheel Housing total width of 184mm / 7.24") and oil pan 23474239. Services 23760020, 23760022, 85022866.
PART NUMBER	MP 10 BASIC ENGINE APPLICATION
85001633	MP10 EPA 07 with Engine Brake Services 20475020, 85003143
85003625*	MP10 EPA 10 / OBD 13 with Engine Brake. Services 21400856, 21730558, 21976462, 22233125, 85013854
85020416	MP10 EPA 14 OBD 14/15 with Engine Brake Services 22291930, 22575196

ALL BASIC ENGINE FEATURES: Remanufactured cylinder block, cylinder head(s), crankshaft, connecting rods and oil pump. One hundred percent new components include piston rings, liners, rod bolts, bearings, bushings, gaskets and seals. All remanufactured basic engines include push rods, rocker assemblies and cylinder head cover(s), and receive rigorous in-process inspections throughout the remanufacturing process to ensure performance and reliability standards are met.

Note: E7, E-TECH™ and ASET™ Oil pans are positioned in the rear sump position and may require changing due to position and/ or bosses required for some applications. MP7 and MP8 oil pans are positioned in the front sump position and may require changing due to position and/or bosses required for some applications. MP10 oil pans are positioned in the rear sump position and may require changing due to position and/or bosses required for some applications.

"PLN" refers to those engines built with inline fuel injection equipment. "E-TECHTM" refers to the engines built using the six individual electronic unit pumps. "CCRS" refers to current-controlled rate shaping. This technology utilizes electrical current to control the rate of fuel injection. "ASET" refers to application specific engine technology. There are two types of ASET engines: internal exhaust gas recirculation or "IEGR" and cooled exhaust gas recirculation or "CEGR". You may also hear these referred to as AI (IEGR) and AC (CEGR) engines.

WARRANTY: MP10 Basic Engine warranty is two years / unlimited miles or three years / 350,000 miles as part of the Mack Overhaul Program.

BASIC ENGINES

The P3 variation includes 732GB3469MX cylinder heads with different exhaust springs and rotors. These engines are ready for installation of Jacob's® Stealth™ braking Ccomponents.

The P4 variation includes the 466GC499MX rocker assemblies. These engines are ready for installation of the "J-TECHTM" engine braking components.

MP7 Applications: MP7 = 11 liters. The engines are designed with electronic unit injectors, cooled exhaust gas recirculation (EGR) and variable geometry turbocharger (VGT). The design conforms to Environmental Protection Agency (EPA) requirements. REMACK® MP7 Basic Engines come with remanufactured oil cooler and remanufactured unit injectors.

MP8 Applications: MP8 = 13 liters. The engines are designed with electronic unit injectors, cooled exhaust gas recirculation (EGR) and variable geometry turbocharger (VGT). The design conforms to Environmental Protection Agency (EPA) requirements. REMACK® MP8 Basic Engines come with remanufactured oil cooler and remanufactured unit injectors.

MP10 Applications: MP10 = 16 liters. The engines are designed with electronic unit injectors, cooled exhaust gas recirculation (EGR), and variable geometry turbocharger (VGT). The design conforms to Environmental Protection Agency (EPA) requirements. REMACK® MP10 Basic Engines come with remanufactured oil cooler and remanufactured unit injectors.

BASIC ENGINE INSTALLATION KITS



PART NUMBER	BASIC ENGINE INSTALLATION KIT APPLICATION
85148981	MP7 EPA04
85148972	MP7 EPA07
85148975	MP7 EPA10
85148978	MP7 EPA14
23055012	MP7 EPA17
85148973	MP8 EPA07
85148976	MP8 EPA10
85148979	MP8 EPA14
23055013	MP8 EPA17
23055728	MP8 EPA 17 Turbo Compound
85148974	MP10 EPA07
85148977	MP10 EPA10
85148980	MP10 EPA14

BENEFITS: The Basic Installation Kit has all the gaskets, o-rings and copper washers needed to install the Basic engine. The Basic Installation Kit will ease the installation and save time for the parts counter technician, as well as the mechanic installing the engine.

REMACK 7/8 ENGINES

The REMACK 7/8 Engine Program is designed to provide both the dealer and the end user the best product and value. Every 7/8 engine shipped is a 100% fully factory dyno tested unit to ensure it meets all the original OEM specifications.

All 7/8th engines are ready to install, dyno tested and proven. The only components remaining to be installed on the engine are the power steering pump, starter, alternator and the fan drive.

Benefits:

- Service your customer with a genuine reman labor saving product at competitive pricing
- Completely disassembled and cleaned using the latest technology
- Engines subject to multiple in-process inspections, measured to OE/reman specs
- Dyno tested on a factory dynamometer to ensure all OEM specs are met

Note: MP7 and MP8 oil pans are positioned in the front sump position and may require changing due to position and/or bosses required for some applications. MP10 oil pans are positioned in the rear sump position and may require changing due to position and/or bosses required for some applications.

WARRANTY:

Two years / unlimited miles Optional Three years / 350,000*

* Conditions apply. See the details located in the Mack Overhaul Extended Warranty Registration Form located on the TDP.

7/8 BUILT TO ORDER PROGRAM

REMACK currently offers 121 unique 7/8 Engine SKU's that cover all MP7 and MP8 engines from EPA 07 through current. Every 7/8 Engine that REMACK build can be ordered through our VDSP program.

Be sure to use the TPI's below to ensure the correct 7/8 part number is ordered as all 7/8 Built to Order sales are final with no returns allowed. For a guided walkthrough please refer to the How to Video on how to order a 7/8 Engines, located on the Aftermarket Sales kit.

MP7 - TPI 210-097 MP8 - TPI 210-099

ORDERING INSTRUCTIONS:

REMACK 7/8 Fleet Program

60-day lead time for engines SKU's not in Quick Ship program

Freight - Prepaid

Ships From: Charlotte, NC

VDSP Program Number: SMR351411

Part Number Prefix: 3514

See Parts Compass for order and program details

7/8 QUICK SHIP PROGRAM

The REMACK 7/8 Quick Ship program is designed to service Mack cabover configured vehicles using MP7 EPA 07 through EPA 14 engines.

7/8 Quick Ship engines are built and stocked at our Charlotte Reman facility and ship within 24 hours from the receipt of the order.

QUICK SHIP APPLICATIONS
MP7 EPA07 Cab-over Chassis with Engine Brake utilizing flywheel housings P/N 20939675, 20939679, 20955338, or 21386328. (Flywheel Housing total width of 204mm / 8.03") Applications. See TPI 215-012 Services 20475006
MP7 EPA07 Cab-over Chassis with No Engine Brake utilizing flywheel housings P/N 20939675, 20939679, 20955338, or 21386328. (Flywheel Housing total width of 204mm / 8.03") Applications. See TPI 215-012 Services 20475007
MP7 EPA10 Cab-over Chassis with Engine Brake utilizing flywheel housings P/N 20939679, 20955338, or 21386328. (Flywheel Housing total width of 204mm / 8.03") Applications. Services 2140065, 21728549
MP7 EPA10 Cab-over Chassis with No Engine Brake utilizing flywheel housings P/N 20939679, 20955338, or 21386328. (Flywheel Housing total width of 204mm / 8.03") Applications. Services 21400866, 21728550
MP7 EPA10 OBD13 Cab-over Chassis with Engine Brake utilizing flywheel housings P/N 20939679, 20955338, or 21386343. (Flywheel Housing total width of 204mm / 8.03") Applications. Services 21975549, 22222931
MP7 EPA10 OBD13 Cab-over Chassis with No Engine Brake utilizing flywheel housings P/N 20939679, 20955338, or 21386343. (Flywheel Housing total width of 204mm / 8.03") Applications. Services 21975550, 22222937
MP7 EPA14 OBD 15/16 Cab-over Chassis with Engine Brake utilizing flywheel housings P/N 20939679, 20955338, or 21386343. (Flywheel Housing total width of 204mm / 8.03") Applications. Services 22288167, 22573450
MP7 EPA14 OBD 15/16 Cab-over Chassis with No Engine Brake utilizing flywheel housings P/N 20939679, 20955338, or 21386343. (Flywheel Housing total width of 204mm / 8.03") Applications. Services 22288168, 22573467

7/8 QUICK SHIP SLT PROGRAM

 $\it Coming\ Soon:\ We're\ currently\ revamping\ the\ 7/8\ engine\ Quick\ Ship\ program.$

SHORT BLOCKS - E7, E-TECH™

Offering E7 PLN, E-TECH™ and ASET™ Short Blocks. Features include remanufactured cylinder block, crankshaft and connecting rods. One hundred percent new components include piston rings, liners, rod bolts, bearings, bushings, and front and rear seals.



	44.
PART NUMBER	E7 PLN SHORT BLOCK APPLICATION
239GB1896X	E7 PLN V-MAC or Non V-MAC (with 240GC585, 57GC2133 One-Piece Piston or serviced with 240GC590BM/5123M, 57GC2189A, 57GC3118 Two-Piece Piston) ref. 86SB3511/3512 Basic Engines.
239GB1900X	E7 PLN (with 240GC590A/591, 57GC2143, 215SB232 Two-Piece Piston) ref. 86SB3514/3515 Basic Engines.
239GB1905X	E7 PLN (with 240GC590A/596, 57GC2151A, 215SB230 Two Piece Piston) (454GC5142 Camshaft) ref. 86SB3516/3516P3 Basic Engines.
239GB1906X	E7 PLN (with 240GC590A/597, 57GC2152 Two-Piece Piston) (454GC5142 Camshaft) ref. 86SB3517 Basic Engines.
239GB1907X	E7 PLN (with 240GC590A/ 598 or 5122M , 57GC 2153A , 215SB 231 Two-Piece Piston) (454GC 5142 Camshaft) ref. 86SB3518 Basic Engines.
239GB1909X	E7 PLN (with 240GC590A/596AM, 57GC2151A, 215SB230 Two-Piece Piston) (454GC5205 Camshaft) ref. 86SB3519/3519P3 Basic Engines.
239GB1910X	E7 PLN (with 240GC590BM/597, 57GC2152 Two-Piece Piston) (454GC5205 Camshaft) ref. 86SB3521 Basic Engines.
239GB1911X	E7 PLN (with 240GC590BM/ 598 AM or 5122M , 57GC 2153A , 215SB 231 Two-Piece Piston) (454GC 5205 Camshaft) ref. 86SB3520 Basic Engines.
PART NUMBER	E-TECH™ SHORT BLOCK APPLICATION
239GB1914X	E-TECH™ Engines with cam arrangement 454GC 4256P3
239GB1915X	E-TECH™ Engines with cam arrangement 454GC 4256
239GB1916X	E-TECH™ Engines with cam arrangement 454GC 4256P2
239GB1919X	E-TECH™ CCRS Engines with cam arrangement 454GC 4263
239GB1928X	E-TECH™ CCRS Engines with cam

WARNING: Use of a short block other than what is listed above may result in engine failure or unsatisfactory performance, and will void engine warranty.

arrangement 454GC4260A

SHORT BLOCKS – ASET™

PART NUMBER	ASET™ IEGR SHORT BLOCK APPLICATION
239GB1920X	E7 ASET™ IEGR (AI) (with 240GC590BM/5126M, 240GC590BM/5127M, 240GC2261M, 240GC2262M, 57GC2215, 57GC2216 Pistons) J-TECH™ Brake or Non-Break Apps with 454GC4264** or 454GC4265 Camshaft Arrangement.
239GB1921X	E7 ASET™ IEGR (AI) (with 240GC590BM/5128M, 240GC2263M, 57GC2217 Pistons) with 454GC4264** or 454GC4265 Camshaft Arrangement.
239GB1922X	E7 ASET™ IEGR (AI) (with 240GC590BM/5126M, 240GC590BM/5127M, 240GC2261M, 240GC2262M, 57GC2215, 57GC2216 Pistons) Power Leash™ Engine Apps. with 454GC4264** Camshaft Arrangement.
239GB1923X	E7 ASET™ IEGR (AI) (with 240GC590BM/5128M, 240GC2263M, 57GC2217 Pistons) with 454GC4264** Camshaft Arrangement.
PART NUMBER	ASET™ CEGR SHORT BLOCK APPLICATION
239GB1924X	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) with 454GC4263 Camshaft Arrangement.
239GB1925X	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) with 454GC4267 Camshaft Arrangement.
239GB1927X	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) with 454GC4268 Camshaft Arrangement.
239GB1929X	E7 ASET™ CEGR (AC) (with 240GC590BM/5125M, 240GC2259M, 57GC2204 Pistons) with 454GC4271 Camshaft Arrangement.
239GB1930X	E7 ASET TM CEGR (AC) (with 240GC590BM/ 5125M , 240GC 2259M , 57GC 2204 Pistons) with 454GC 4272

FEATURES: Remanufactured cylinder block, crankshaft, connecting rods, camshaft, pistons, EUP tappets (when applicable), lifters, piston cooling nozzles, auxiliary shaft, timing gears and timing gear cover. One hundred percent new components include piston rings, liners, rod bolts, bearings, bushings, and front and rear seals. All remanufactured short blocks undergo rigorous in-process inspections throughout the remanufacturing process to ensure performance and reliability standards are met.

Camshaft Arrangement.

** NOTE: From mid-July 2002 (Engine Serial Number 2N), camshaft 454GC4264 was changed and can no longer be used in J-TECH™ Brake applications. All ASET (Al) engine applications with J-TECH™ must use camshaft 454GC4265. See Service Bulletin #SB213035.

WARRANTY: Two years / unlimited miles.

FLYWHEELS



PART NUMBER	APPLICATION
85021772	MP7 Engine. EPA04 through EPA17 Emissions. Services 21825230
85021774	MP8 Engine. EPA07 through EPA14 Emissions. Services 21184666
85021776	MP8 Engine. EPA17 Emissions. Services 21630898
85021776	MP10 Engine. EPA07 through EPA14 Emissions. Services 21630898

FEATURES: Remanufactured flywheels are available as an alternative to new flywheels and provide a lower $m DRIVE^{TM}$ service cost. All remanufactured flywheels are completely cleaned and inspected for any damage. The flywheels are remanufactured according to the latest engineering specifications. The pilot bearing is included and installed for your convenience.

NOTE: MP10 remanufactured flywheel is for single mass flywheel replacement only. A twin mass flywheel is NOT an acceptable core. A single mass flywheel conversion kit (P/N 23040540) should be utilized when replacing a twin mass flywheel.

WARRANTY: One year / unlimited miles.

WARNING: Use of a flywheel other than what is listed above may result in transmission failure or unsatisfactory performance, and will void transmission warranty.

CONNECTING RODS

Precision machining ensures rods are straight and they have proper surface finish. Crank bores are brought back to original size. New rod bolts and wrist pin bushings are installed, and bushings are machined to size.



PART NUMBER	CONNECTING ROD APPLICATION
367GC3170P2X	T673C, T675 (engines built prior to 1975).
367GC3219P2X*	Use 367GC4240P2X (set of six)
367GC4240P2X	All 2V six-cylinder, piston-cooled engines produced after 4/7/83.
367GC4247P2X	All six-cylinder, piston-cooled engines with 62GB2393 Deltawall connecting rod bearings.
367GC4202CX	All E9 (V-8) engines except marine and VG2 applications. For marine and VG2 applications, use new rod P/N 367GC4264 .
367GC4243M2X	All E7 PLN, E-TECH™ and ASET™ engines. Services 367GC4255M(2), 367GC4267M(2) and 20706148.

FEATURES: Rods are completely disassembled, cleaned and inspected. Precision machining centers remove any bend or twist, and ensure proper surface finish. Crank bores are brought back to original size and specification. All new wrist pin bushings are installed and machined to size. Completed connecting rods, including new rod bolts, are checked for proper lengths prior to shipment. Rods are packaged in sets of six or eight. Broken set orders are available and will be shipped direct from Middletown on request.

*NOTE: 367GC3217P2X rods have been eliminated. P/N 367GC3219P2X. For core returns, 367GC3217P2X and 367GC3219P2X cores are interchangeable. Also 367GC4240P2X rods can be used in place of 367GC3219P2X rods, when replaced in complete sets of six.

WARRANTY: One year / unlimited miles.

MUZZLE LOADERS™

All REMACK® Remanufactured Muzzle Loaders™ come ready to install into cylinder bores. Assembled units come complete with reman connecting rods, piston crowns, snap rings and wrist pins. New components included are piston rings, piston skirt, rod bolts and cylinder liner.



PART NUMBER	APPLICATION
215SB238LX	E7 PLN 1991/92/93/94 models with 240GC 2246AM (240GC591 crown) original pistons. New kit reference #57GC2143A, 215SB232A or 215SB217D.
215SB239LX	E7 PLN 1994/95 models with 240GC 2248AM (240GC596 crown) original pistons. New kit reference #57GC2151A, 215SB230A or 215SB218E.
215SB240LX	E7 PLN 1995/96 models with 240GC 2249AM (240GC597 crown) original pistons. New kit reference #57GC2152 or 215SB236C.
215SB242LX	E7 PLN 1994/95/96 and E-TECH™ 1998/99/00/01 models with 240GC 2250CM (240GC 598AM or 240GC 5122M crown) original pistons. New kit reference #57GC2153A, 215SB231A or 215SB219E. Supersedes 215SB241LX Muzzle Loader™.
215SB243LX	E7 E-TECH [™] 2002 CCRS models with 240GC 2258M (240GC 5124M crown) original pistons. New kit reference #57GC2196, 57GC3119 or 57GC3127.
215SB244LX	E7 ASET™ AC (CEGR) models with 240GC2259M (240GC5125M crown) original pistons. New kit reference # 57GC2204, 57GC3121 or 57GC3124.
215SB245LX	E7 ASET™ AI (IEGR) models with 240GC 2261M (240GC 5126M crown) original pistons. New kit reference # 57GC2215 or 57GC3125.
215SB246LX	E7 ASET™ AI (IEGR) models with 240GC 2262M (240GC 5127M crown) original pistons. New kit reference # 57GC2216 or 57GC3126.
215SB247LX	E7 ASET™ AI (IEGR) models with 240GC 2263M (240GC 5128M crown) original pistons. New kit reference # 57GC2217 or 57GC3128.

MUZZLE LOADERS™



PART NUMBER	APPLICATION cont'd
85146606	MP7 EPA04/07/10 Engines. Services 21367720.
85021909	MP7 EPA 14 Engines. Services 22416837.
85021628	MP7 EPA 17 Engines. Services 22637622.
85146624	MP8 EPA07 with std. weight connecting rod (See TPI 216-019 to ID rods) Engines. Services 20928630.
85021905	MP8 EPA07 with light weight connecting rod (See TPI 216-019 to ID rods) Engines. These kits have lightweight connecting rods and cannot be used with non-light weight Muzzle Loader kits. Services 20928630.
85146629	MP8 EPA10 with std. weight connecting rod (See TPI 216-019 to ID rods) Engines. Services 21330684.
85021907	MP8 EPA10 with light weight connecting rod (See TPI 216-019 to ID rods) Engines. These kits have light weight connecting rods and cannot be used with non-lightweight Muzzle Loader kits. Services 21330684.
85021911	MP8 EPA 14 with std. weight connecting rod (See TPI 216-019 to ID rods) Engines. Services 22522229
85021913	MP8 EPA 14 with light weight connecting rod (See TPI 216-019 to ID rods) Engines. Services 22522229
85021947	MP8 EPA 17 with std. weight connecting rod (See TPI 216-019 to ID rods) Engines. Services 22565407
85021399	MP8 EPA 17 with light weight connecting rod (See TPI 216-019 to ID rods) Engines. Services 22565407
85146633	MP10 EPA07 Engines. Services 22302062.
85146665	MP10 EPA10 Engines. Services 22302064.
85021921	MP10 EPA 14 Engines. Services 22302064, 85147016, 85146665

FEATURES: Remanufactured Muzzle Loaders™ come ready to install into cylinder bores. Assembled units come complete with reman connecting rods, piston crowns, snap rings and wrist pins. Crank bores are brought back to original size and specification. New wrist pin bushings are installed into the rod and machined to size. The pistons are cleaned and visually inspected. Acceptable pistons are dimensionally gauged to ensure proper size and specification. Connecting rods are inspected for bends or twists. Any that are found bent or twisted are discarded. Rods are also inspected for proper finish. If all criteria are met, new bushings are installed (if applicable). The Muzzle Loaders™ include new rod bolts, and are assembled by trained technicians and packaged for shipment.

WARRANTY: Two years / unlimited miles.

MUZZLE LOADER™ OVERHAUL KITS

All REMACK® Remanufactured Muzzle Loader™ Overhaul Kits come with six Muzzle Loaders™ ready for installation into cylinder bores. Also included in each kit are necessary gaskets, bearings and seals to completely rebuild your E7 Engine.



PART NUMBER	MUZZLE LOADER™ OVERHAUL KITS APPLICATION
215SB275KX	E7 PLN prior to 1991 models with 240GC 585 original one-piece aluminum piston or engines previously serviced with 240GC 2257AM (240GC 5123M crown) two-piece pistons. New kit reference #215SB198F.
215SB276KX	E7 PLN 1991/92/93/94 models with 240GC 2246AM (240GC 591 crown) original pistons. (215SB238LX Muzzle Loader) New kit reference #215SB200F.
215SB277KX	E7 PLN 1994/95 models with 240GC 2248AM (240GC 596 crown) original pistons. (215SB239LX Muzzle Loader) New kit reference #215SB362.
215SB278KX	E7 PLN 1995/96 models with 240GC 2249AM (240GC 597 crown) original pistons. (215SB240LX Muzzle Loader) Not available new.
215SB279KX	E7 PLN 1994/95/96 models with 240GC 2250CM (240GC 598 or 240GC 5122M crown) original pistons. (215SB242LX Muzzle Loader) New kit reference #215SB208B.
215SB280KX	E7 E-TECH™ 1998/99/00/01 models with 240GC 2250CM (240GC 5122M crown) original pistons. (215SB242LX Muzzle Loader) New kit reference #215SB304.
215SB281KX	E7 E-TECH™ 2002 CCRS models with 240GC 2258M (240GC 5124M crown) original pistons. (215SB243LX Muzzle Loader) New kit reference #85132403.
215SB282KX	E7 ASET™ AC (CEGR) models with 240GC 2259M (240GC 5125M crown) original pistons. (215SB244LX Muzzle Loader) New Kit reference #85132404.

FEATURES: Included in each kit are the following:

Six - Muzzle Loaders™

One - Lower engine gasket set

Two - Cylinder head gasket sets

One - Upper engine gasket set

Rod and main bearings sets

WARRANTY: Two years / unlimited miles on Muzzle Loaders™. One year / unlimited miles on bearings and gaskets.

WARNING: Use of Muzzle Loader™ overhaul kits other than what is listed above may result in engine failure or unsatisfactory performance, and will void engine warranty.

MUZZLE LOADER™ OVERHAUL KITS

PART NUMBER	MUZZLE LOADER™ OVERHAUL KITS APPLICATION <i>cont'd</i>
215SB283KX	E7 ASETTM AI (IEGR) models with 240GC 2261M (240GC 5126M crown) original pistons. (215SB245LX Muzzle Loader) New Kit reference #85132405.
215SB284KX	E7 ASET TM AI (IEGR) models with 240GC 2262M (240GC 5127M crown) original pistons. (215SB246LX Muzzle Loader) New Kit reference #85132406.
215SB285KX	E7 ASET TM AI (IEGR) models with 240GC 2263M (240GC 5128M crown) original pistons. (215SB247LX Muzzle Loader) New Kit reference #85132407.
85146676	MP7 EPA04/07/10 Engines. Services 85138499, 85138500.
85021915	MP7 EPA 14 Engines. Services 22416837, 22521926, 85021909
85021630	MP7 EPA 17 Engines. Services 22637622, 23035646, 85021628
85146681	MP8 EPA07 Engines. Services 85138501.
85146685	MP8 EPA10 Engines. Services 85138502.
85021917	MP8 EPA 14 Engines. Services 22522198, 22522229, 85021911, 85021913
85021400	MP8 EPA 17 Variable Geometry Turbo (VGT) type Engines. Services 22565407, 22724208, 85021399, 85021947
85021919	MP8 EPA 17 Turbo Compound (TC) type Engines. Services 22565407, 23060943, 85021399, 85021947
85146689	MP10 EPA07 Engines. Services 85138503.
85146694	MP10 EPA10 Engines. Services 85138504.
85021921	MP10 EPA 14 Engines. Services 22302064, 85147016, 85146665

WARRANTY: Two years / unlimited miles on Muzzle Loaders[™]. One year / unlimited miles on bearings and gaskets.

WARNING: Use of Muzzle Loader™ overhaul kits other than what is listed above may result in engine failure or unsatisfactory performance and will void engine warranty.

MUZZLE LOADER™ **OVERHAUL KITS**

REMACK® MUZZLE LOADER OVERHAUL KIT FEATURES:

All REMACK® Muzzle Loader™ Overhaul Kits come with six Muzzle Loaders™ ready for installation into cylinder bores. Also included in each kit are the following:

One - Cylinder head gasket set (where applicable)

One - Engine (Decarb) gasket Set

One - Oil pan gasket

One - Thermostat

One - Camshaft bearing set Rod and main bearings sets

Thrust washer kit

MUZZLE LOADER OVERHAUL KIT INSTALL TOOLS:

Available now to aid when installing the REMACK® Muzzle Loader™ Kits. These can be ordered from the PDC.

P/N 88800556 install tool for MP7/E7

P/N 88870026 for MP8

P/N 88800557 for MP10

BENEFITS:

- · Shorten your overhaul turn-around time by using Muzzle Loader™ Overhaul Kits
- · Labor savings up to 3-4 hours
- Tool has install arrow for proper alignment of piston when installing loaded kit
- · Ease, quality and cleanliness of installation

CYLINDER HEADS

Castings are MAGNAFLUX®-inspected and pressure-tested. Computer-controlled machining ensures OEM/reman specs. All valves are new or re-chromed, and valve seats are inspected, machined and tested to ensure a proper seal. New valve guides and rotors are installed.



PART NUMBER	CYLINDER HEAD APPLICATION
732GB3424X	All E6 four-valve cylinder head engines. NOTE: 732GB3424X services both 7/16" and 3/8" diameter valve stem cylinder heads.
732GB3452MX	E7 PLN Engines (pre 1991). Services 732GB4464M
732GB3451MX	E7 PLN Engines (1991, 92, 93) with 240GC590/591 (57GC2143) two-piece piston. 688GC2378 exhaust valve, 575GC213 exhaust valve spring and 722GC235 lower exhaust valve spring rotator. Services 732GB4463M
732GB3466MX	E7 PLN Engines (1994/95/96/97) - Not for Dynatard® applications. For engines built with Pyromet exhaust valve identified with a "Y" on the center of the head of the valve. (Refer to Service Bulletin #32E001 or SB266005) (Supersedes 732GB3460MX). 688GC2389 exhaust valve, 575GC213 exhaust valve spring and 722GC235 lower exhaust valve spring rotator.
732GB3469MX	E7 PLN Engines (1995/96/97) for Jacobs® Stealth™ Retarding System applications. (Supersedes 732GB3467MX). 688GC2389 exhaust valve, 575GC35 exhaust valve spring and 722GC313 lower exhaust valve spring rotator.
732GB3485MX	E7 E-TECH™ Engines built prior to 3/1/00, serial #OD0119 and lower (with 891GC215M or 891GC223M pin type intake yoke).

CYLINDER HEADS



PART NUMBER	CYLINDER HEAD APPLICATION cont'd
732GB3491MX	E7 E-TECH™ Engines built from 3/1/00 and pre CCRS, serial #OD0120 and higher (with 891GC328 pinless intake yoke).
732GB3492MX	E7 E-TECH™ CCRS Engines, except PowerLeash™ application. Services 732GB3492(A)M, 732GB3495M, 732GB3502M, 732GB3503M, 732GB3511M and 732GB3512M. Note: For CCRS PowerLeash™ applications use new service cyl. head 732GB3498AM.
732GB3499MX	E7 ASET™ AI (IEGR) Engines. All J-TECH™ Brake and PowerLeash™ applications (With three 183GC2257 yoke pins). Services 732GB3494M, 732GB3499M, 732GB3501M and 732GB3509M
732GB3510MX	E7 ASET™ AI (IEGR) Engines. Non-Brake applications. (no yoke pins) Services 732GB3510M
732GB3509M2X	E7 ASET™ AC (CEGR) Engines. All J-TECH™ Brake and PowerLeash™ applications. (With three 183GC2257 yoke pins). Services 732GB3494M2, 732GB3499M2, 732GB3501M2 and 732GB3509M2
732GB3510M2X	E7 ASET™ AC (CEGR) Engines. Non-Brake applications (no yoke pins). Services 732GB3510M2

FEATURES: All remanufactured cylinder heads are completely disassembled and cleaned. The castings are Magnaflux®-inspected and pressure-tested. State-of-the-art computer controlled machining centers machine all surfaces to reman and/or O.E.M. specifications to ensure REMACK® quality. All valves and valve seats are inspected and machined. All remanufactured cylinder heads are complete with valves, valve guide seals (where applicable), heavy-duty valve springs, rotators and keepers. New valve guides and rotators are installed 100 percent. Completed assemblies are vacuum-tested to ensure proper seal.

WARRANTY: One year / unlimited miles.

NOTE: If a Jake brake is to be installed on an engine with remanufactured cylinder heads, it might be necessary to change the exhaust valve stem cap (refer to Service bulletin SB213012).

CYLINDER HEADS



PART NUMBER	CYLINDER HEAD APPLICATION cont'd
85013082	MP7 EPA04 / EPA07 Engines. Flat (copper) type injector cup applications. Services 20905280, 20905281, 21356506, 21585615, 22083822, 85000902, 85013082, 85020268, 85003285
85013085	MP7 EPA07 / EPA10 Engines. Conical (stainless steel) type injector cup applications. Services 21463155, 21576299, 22083821, 85003704, 85013084
85020035	MP7 EPA14 Engines. Services 22063681, 22083821, 22498186, 85020266
85021573	MP7 EPA17 Engines. Services 23042711
85020272	MP8 EPA07 Engines. Flat (copper) type injector cup applications. Services 21042138, 22251142, 22498383, 85000985
85020274	MP8 EPA07/ EPA10 Engines. Conical (stainless steel) type injector cup applications. Services 21460896, 85013086
85020890	MP8 EPA14 Engines. Services 22186468, 22251173, 22797841, 22498413, 85013949, 85020037, 85020294
85021398	MP8 EPA17 Engines. Services 22498489, 22728123
85022161	MP10 EPA07 Engines. Flat (copper) type injector cup applications. Services 21016557, 21072137, 21331714, 21461672, 22115009, 85003707, 85003108
85013088	MP10 EPA07/ EPA10 Engines. Conical (stainless steel) type injector cup applications. Services 21440400, 21461673, 22115004, 85013087
85022771	MP10 EPA14 Engines. Services 22184000, 22215855

IDLER GEARS



PART NUMBER	CASE HARDENED - APPLICATION
85021558	MP7 EPA 07 through EPA 14 all applications and EPA 17 with 1000 NM engine PTO torque capacity applications. Services 20811955, 21060843, 21760929, 21826609, 23493803
85021559	MP8 EPA 07 through EPA 14 all applications and EPA 17 with 1000 NM engine PTO torque capacity applications. Services 20973826, 21056774, 21057068, 21760930, 21826610, 23493805
85021560	MP10 EPA 07 through EPA 14 all applications. Services 21056761, 21057433, 21760931, 21826611, 23493807
PART	
NUMBER	NC + APPLICATION
85022638	MP7 EPA 17 all applications except 1000 NM engine PTO Torque capacity Services 23493801
85022636	MP8 EPA 17 all applications except 1000 NM engine PTO Torque Services 23493797

Case Hardened Idler gears are designed to withstand use in applications up to 1000 NM PTO engine torque.

NC+ (Nitro Carburization) Idler gears are for use in EPA 17 engines with less than 1000 NM of PTO engine torque.

NOTE: Case Hardened and NC+ gears cannot be mixed. All gears must be of the same surface treatment.

FEATURES: All REMACK Idler Gears are fully disassembled and cleaned using the latest technology. The disassembled components receive rigirous in-process inspections where each is measured to OE/Reman specifications. All critical components and "high wear" items are replaced with new. Final assembly is completed and tested the same as new.

WARRANTY: One year / unlimited miles.

INJECTION PUMPS

Components are fully cleaned and inspected. Any parts that can't meet precise specs and tolerances are replaced. All units are calibrated prior to shipping. New gaskets, seals and O-rings are included.



FEATURES: All REMACK® fuel injection pumps are completely disassembled, and all component parts are thoroughly cleaned and inspected. All critical parts are checked dimensionally—all others are visually inspected. Any parts that do not clean up in machining or cannot be machined because they are beyond tolerance are scrapped and replaced with new. REMACK® injection pumps are assembled with all new gaskets, seals and O-rings.

REMANUFACTURED INJECTION PUMP KITS INCLUDE:

- All P7100, P7200, P7300 and V-MAC® injection pumps have steel delivery valve gaskets.
- · Remanufactured fuel supply pumps.
- Remanufactured V-MAC® RE30 governors include an integrated wiring harness, and updated rack positioning and speed sensors.
- Kits are tested and calibrated to O.E.M. specifications.
- Remanufactured injectors are assembled with all-new nozzle tips (kit only).
- · Copper compression washers for the injectors (kit only).
- Copper compression washers for the fuel return line (kit only).
- Dust seals for the injectors (kit only).
- Gasket for injection pump to block (RB except P7100, P7200, P7300 and V-MAC®).
- O-ring for injection pump to block (P7100, P7200, P7300 and VMAC®).
- Drive coupling (except P7100, P7200, P7300 and V-MAC®).

NOTE: All injection pumps (unless marked to order injectors separately) with an odd "P" number (P5X) indicate kit (reman pump and injectors), while an even "P" number (P6X) indicates reman pump only.

NOTE: Injection pumps not listed may be available pending core and component availability. Contact D&W Diesel per the VDSP vendor ordering instructions listed on the Trucks Dealer Portal for availability.

WARRANTY: One year / unlimited miles.

INJECTION PUMPS

ROBERT BOSCH P7100, P7200, P7300 INJECTION PUMPS (PUMP ONLY - INJECTORS MUST BE ORDERED SEPARATELY)

INJECTION PUMP PART#	NOZZLE ASSEMBLY PART# 736GB	APPLICA- TION		SUPPLY PUMP#
4119-313GC5185P26X	343P4X	4V E7-250	RB	314GC227P5X
4119-313GC5188P6X	343P4X	4V E7-250	RB	314GC227P5X
4119-313GC5179P26X	341X	4V EM7-250	RB	314GC227P5X
4119-313GC5188P2X	341X	4V EM7-250	RB	314GC227P5X
4119-313GC5212P2X	341X	4V EM7-250	RB	314GC227P5X
4119-313GC5185P22X	341X	4V EM7-275	RB	314GC227P5X
4119-313GC5188P4X	343P4X	4V EM7-275	RB	314GC227P5X
4119-313GC5212P4X	343P9X	4V EM7-275	RB	314GC227P5X
4119-313GC5228P4X	343P9X	4V EM7-275	RB	314GC227P5X
4119-313GC5185P10X	341X	4V EM7-300	RB	314GC227P5X
4119-313GC5188P10X	343P3X	4V EM7-300	RB	314GC227P5X
4119-313GC5212P10X	343P3X	4V EM7-300	RB	314GC227P5X
4119-313GC5212P14X	343P9X	4V EM7-300	RB	314GC227P5X
4119-313GC5228P14X	343P9X	4V EM7-300	RB	314GC227P5X
4119-313GC5185P14X	341X	4V E7-300	RB	314GC227P5X
4119-313GC5185P18X	341X	4V E7-300	RB	314GC227P5X
4119-313GC5188P8X	343P2X	4V E7-300	RB	314GC227P5X
4119-313GC5212P8X	343P11X	4V E7-300	RB	314GC227P5X
4119-313GC5228P8X	343P11X	4V E7-300	RB	314GC227P5X
4119-313GC5185P2X	341X	4V E7-350	RB	314GC227P5X
4119-313GC5188P12X	343P2X	4V E7-350	RB	314GC227P5X
4119-313GC5212P12X	343P2X	4V E7-350	RB	314GC227P5X
4119-313GC5212P16X	343P11X	4V E7-350	RB	314GC227P5X
4119-313GC5228P16X	343P11X	4V E7-350	RB	314GC227P5X
4119-313GC5185P6X	341X	4V E7-400	RB	314GC227P5X

ROBERT BOSCH P7200 V-MAC® INJECTION PUMPS (PUMP ONLY – INJECTORS MUST BE ORDERED SEPARATELY)

•				
INJECTION PUMP PART#	NOZZLE ASSEMBLY PART# 736GB	APPLICA- TION		SUPPLY PUMP#
4119-313GC5183P6X	341X	E7 V-MAC 1990	RB	314GC227P5X

INJECTION PUMPS

ROBERT BOSCH P8500 V-MAC® INJECTION PUMPS (PUMP ONLY – INJECTORS MUST BE ORDERED SEPARATELY)

INJECTION PUMP PART#	NOZZLE ASSEMBLY PART# 736GB	APPLICATION	PUMP TYPE	SUPPLY PUMP#
4119-313GC5205X Supersedes 935-0402996301 935-0402996303	Variable	1993 / 94 / 95 / 96 400 HP or Less	RB	935 0440008120X
4119-313GC5205P3X Supersedes 935-0402996302 935-0402996304	Variable	1993 / 94 / 95 / 96 427 HP or 454 HP	RB	935 0440008120X
4119-313GC5217X	Variable	1994 400 HP or Less	RB	935 0440008120X
4119-313GC5217P2X	Variable	1994 427 or 454 HP	RB	935 0440008120X
4119-313GC5225PX	Variable	1994 400 HP or Less	RB	935 0440008120X
4119-313GC5225P2X	Variable	1994 427 or 454 HP	RB	935 0440008120X

NOTE:

RB = Robert Bosch.

^{*} Services 935-0402996301 and 303

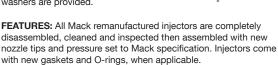
^{**} Services 935-0402996302 and 304

^{***} Bosch P7100, P7200, V-MAC®, and In-Line Eight-Cylinder Pumps are sold as a pump only – not a kit. Injectors must be ordered separately. All other Injection Pumps with an odd "P" number (P5X) indicates kit (reman pump and injectors). While an even "P" number (P6X) indicates reman pump only.

[†] When replacing 337P3 and 337P5 injectors in full sets, use part number 337P9X.

INJECTION PUMP NOZZLE & HOLDER ASSEMBLIES

Fully cleaned and inspected. Calibrated and tested to ensure proper operation. New nozzle tips, felt dust cover gaskets, copper compression gaskets and nozzle return line washers are provided.



WARRANTY: E-TECHTM /ASETTM Injectors – two years / 200,000 miles. All others – one year / unlimited miles.

ELECTRONIC UNIT PUMP (EUP)				
INJECTION PUMP PART#	NOZZLE ASSEMBLY PART# 736GB	APPLICATION	PUMP TYPE	SUPPLY PUMP#
313GC5227MX	N/A	E-TECH™	RB	85013282
313GC5230MX	N/A	E-TECH™ CCRS	RB	85013282
313GC5233MX	N/A	ASET™	RB	N/A

WARNING: Use of an injection pump nozzle & holder assembly other than what is listed above may result in engine failure or unsatisfactory performance, and will void engine warranty.

INJECTION PUMP NOZZLE & HOLDER ASSEMBLIES

TWO-VALVE HEAD NOZZLES				
PART NUMBER	APPLICATION			
736GB127X	END673(AMBAC)			
736GB227X	END673(AMBAC)			
736GB221X	END673(AMBAC)			
736GB162X	ENDT673-675(AMBAC)			
736GB251X	ENDT673-675(RB)			
736GB250AX	ENDT676, EM6-300(R), E6-350(AMBAC)			
736GB250AP7X	ENDT675(AMBAC)			
736GB250AP8X	ETY-ETZ675, EMC6-285(R)(AMBAC)			
736GB250AP9X	ETSX675, EC6-330(AMBAC)			
736GB250AP11X	EM6-250(AMBAC)			
736GB254P2X	ENDT676(RB)			
736GB254P4X	ENDT676- ETAZ673A(RB)			
736GB321X	ENDT676- ETAZ673A(RB)			
736GB328X	ETY-ETZ675(RB)			
736GB254P3X	ETY-ETZ675(RB)			

	BAR STOCK NOZZLES
PART NUMBER	APPLICATION
736GB333P2X	EM6-237, E6-250, EM6-285, EM6-250(R), E6-315(R) EME6- 250(R), EME6-300(RB)
736GB333P3X	EME6-300(R), EE6-350(R)(RB)
736GB333P4X	E6-200 (RB)
736GB333P5X	EM6-237(RB)
736GB333P7X	EM6-237(RB)
736GB333P8X	E6-350, EM6-300, EM6-275L(RB)
736GB335X	EM6-285(R), E6-315(R), EM6-300(R), (AMBAC)
736GB335P2X	EM6-237(R), E6-260 (AMBAC)
736GB335P3X	EMC6-250, EMC6-285(R) (AMBAC)
736GB335P4X	EM6-250, EM6-225 (AMBAC)
736GB335P5X	EMC6-250L (AMBAC)

WARNING: Use of an injection pump nozzle & holder assembly other than what is listed above may result in engine failure or unsatisfactory performance, and will void engine warranty.

INJECTION PUMP NOZZLE & HOLDER ASSEMBLIES

E6	FOUR-VALVE HEAD NOZZLES
PART NUMBER	APPLICATION
736GB259P13X	EM6-250(L), EM6-275(L), EM6- 300(L), E6-275, E6-350, EC6-350 (AMBAC)
736GB259P6X	EC6-300, EC6-350 (AMBAC)
736GB337P3X	E6-275, E6-300, EM6-300(L) (RB) (Order this part number for less than full set for original replacement – Use 736GB337P9X in sets of six)
736GB337P4X	EM(E)6-300, EME6-300R, EE6-350(RB)
736GB337P5X	E6-275, E6-300, E6-350, EM6-250L, EM6-275L, EM6-300L, EC6-350 (RB) (Order this part number for less than full set for original replacement – Use 736GB337P9X in sets of six)
736GB337P6X	E6-270(RB)
736GB337P9X	E6-275, E6-300, E6-350, EM6-250L, EM6-275L, EM6-300(L), EC6- 350(RB) Replaces 736GB337P3X and 736GB337P5X in sets of six only
	V-8 NOZZLES
PART NUMBER	APPLICATION
736GB250AP2X	V-8 ENT865/866(AMBAC)
736GB170AX	V-8 ENDT865(AMAC)
736GB259P3X	V-8 EM9-400(R) EM9- 440(AMBAC)
736GB259P5X	E(M)(C)9-400(R) (AMBAC) (pre-1988)
736GB259P11X	E9-400, E9-450,E9-500 (AMBAC) (1988 on up)
736GB337P7X	EE9-502, E9-450, E9-500(RB)
PART NUMBER	E7 PLN NOZZLES APPLICATION
736GB341X	EM7-250, EM7-300, E7-350, E7-400, E7-300 (1700 RPM) (RB)
736GB343P2X	1991 E7-350(V), E7-350(M), E7-300(M) (1950), E7-400(V) (RB)
736GB343P3X	1991 E7-300(V), EM7-300(V), EM7-300(M), (Pre-1992)(RB)
736GB343P4X	1991 EM7-250(V), EM7-275(M), EM7-250(M), EM7-275(M), E7-250(M) (1950 RPM)
736GB343P6X	E7-325(V), E7-350(V) (RB)
736GB343P7X	E7-400(V), E7-427(V), E7-454(V) (RB)
736GB343P8X	E7-250(V), EM7-275(V), EM7-300(V),

WARNING: Use of an injection pump nozzle & holder assembly other than what is listed above may result in engine failure or unsatisfactory performance, and will void engine warranty.

E7-300(V) (RB)

INJECTION PUMP NOZZLE & HOLDER ASSEMBLIES

PART NUMBER	E7 PLN NOZZLES cont'd APPLICATION
736GB343P9X	EM7-250(M), EM7-275(M), EM7-300(M) (RB)
736GB343P11X	E7-300(M), E7-350(M)(RB)
736GB343P12X	E7-454(RB)
736GB343P13X	E7 GEN. SET
	E-TECH™ NOZZLES
PART NUMBER	APPLICATION
736GB415MX	ETECH Up to 400 HP, 700cc. Replaces 736GB48M4, 49M4, 49BM4, 49M4X
736GB415M2X	ETECH 427HP and higher, 850cc. Replaces 736GB47M3, M7, 48M3, 49M3, 49BM3 and 49M3X
736GB420MX	ETECH CCRS Below 460 HP, 700cc. Replaces 736GB410M
736GB420M3X	ETECH CCRS 460 HP, 850cc. Replaces 736GB410M3
	ASET™ NOZZLES
PART NUMBER	APPLICATION
736GB411MX	ASET CEGR (Phase I & II) below 380 HP, 650cc.
736GB411M2X	ASET CEGR (Phase I & II) 380 HP and higher, 750cc.
736GB412MX	ASET IEGR (Phase I & II) 300 HP only, 650cc.
736GB412M2X	ASET IEGR (Phase I & II) 350 and 400 HP, 700cc.
736GB412M3X	ASET IEGR (Phase I $\&$ II) 427 and 460 HP, 750cc.
736GB414MX	ASET IEGR (Phase III) AMI-300, AI-300, 650cc.
736GB414M2X	ASET IEGR (Phase III) AMI-335, AMI-370, AI-350, AI-400, 700cc.
736GB414M3X	ASET IEGR (Phase III) Al-427, Al-460, 750cc.
736GB418M2X	ASET CEGR (Phase III) AC-380/410, AC-460E, AC-460P, 900cc.
736GB419MX	ASET IEGR (Phase IV) AMI-300, AI-300A, 650cc
736GB419M2X	ASET IEGR (Phase IV) AMI-335, AMI-370 w/ 5165/5174 data file, AI-350, AI-400, 700cc
736GB419M3X	ASET IEGR (Phase IV) AMI-370 w/5146 data file, AI-427, AI-460, 750cc
736GB421MX	ASET CEGR (Phase IV) AC-310/330, AC-330/350, AC-355/380, AC-350, 650cc
736GB421M2X	ASET CEGR (Phase IV) AC-380/410, AC-400, AC-427, 750cc
736GB421M3X	ASET CEGR (Phase IV) AC-460E, AC-460P, 850cc

WARNING: Use of an injection pump nozzle & holder assembly other than what is listed above may result in engine failure or unsatisfactory performance, and will void engine warranty.

REMACK® SINGLE INJECTORS



	MP 7 INJECTORS
PART NUMBER	APPLICATION
85003128	MP7 EPA04. Services 20702362
85013146	MP7 EPA07. Use with flat injector sleeves. Services 20833111, 20893021, 20965224, 21028628, 21106498, 21246331, 85003110 (MP7 EPA 07 flat injectors for use with copper injector cups are only available as singles. For six pack set, please upgrade to 85144091 conical injectors.)
85013147	MP7 EPA07. Use with conical injector sleeves. Services 21457950, 21554442, 85003711
85013718	MP7 EPA10/OBD13. Enhanced with coated NCV (Needle Control Valve). Services 21172430, 21307001, 21457952, 21599150, 22027807, 85013159
85020427	MP7 EPA14/OBD15/OBD16. Services 22015763, 22479123, 85020031
	MP8 INJECTORS
PART NUMBER	APPLICATION
85013149	MP8 EPA07. Use with flat injector sleeves. Services 20582430, 20977565, 21106375, 21244717, 85003109 (MP8 EPA 07 flat injectors for use with copper injector cups are only available as singles. For six pack set, please upgrade to 85003924 conical injectors.)
85013152	MP8 EPA07. Use with conical injector sleeves. Services 21451295, 21543203, 85003656, 85003887
85013612	MP8 EPA10/OBD13. Enhanced with coated NCV (Needle Control Valve). Services 21092434, 21119665, 21458369, 21599153, 22027808, 5003658, 85013160, 85135901
85020429	MP8 EPA14/OBD15/OBD16. Services 22012829, 22479124, 85020033
	MP10 INJECTORS
PART NUMBER	APPLICATION
85013154	MP10 EPA07. Use with flat injector sleeves. Services 20965225, 21028629, 21106499, 21246332, 85000837, 85000911, 85003111 (MP10 EPA 07 flat injectors for use with copper injector cups are only available as singles. For six pack set, please upgrade to 85144095 conical injectors.)
85013157	MP10 EPA07. Use with conical injector sleeves. Services 21457951, 21543204
85020857	MP10 EPA10/OBD13. Enhanced with coated NCV (Needle Control Valve) Services 21172432, 21306972, 21457953, 21683459, 22027810, 85013161, 85013613, 85013720, 85020091
85020844	MP10 EPA14/OBD15/OBD16. Services 22218106, 22479125, 22717952, 85020431

REMACK® SIX-PACK INJECTOR KITS

The REMACK® Six-Pack Injector Kit includes the latest design and engineering upgrades. One hundred percent of components are inspected for optimum quality, tolerance and function.

PART NUMBER	APPLICATION
85135079	ETECH up to 400 hp , 700 cc. Services 736GB48M4, 49M4, 49BM4, 49M4X, 415MX
85135080	ETECH 427 hp and higher , 850 cc. Services 736GB47M3, M7, 48M3, 49M3, 49BM3, 49M3X, 415M2X
85135081	ETECH CCRS below 460 hp, 700 cc. Services 736GB410M, 420MX
85135092	ETECH CCRS 460 hp , 850 cc. Services 736GB410M3, 420M3X
85135091	ASET CEGR (Phase I & II) below 380 hp, 650 cc. Services 411MX
85135087	ASET CEGR (Phase I & II) 380 hp and higher, 750 cc. Services 411M2X
85135095	ASET CEGR (Phase III) AC-380/410, AC-460E, AC-460P, 900 cc. Services 418M2X
85135088	ASET CEGR (Phase IV) AC-310/330, AC330/350, AC-355/380, AC-350, 650 cc. Services 421MX
85135083	ASET CEGR (Phase IV) AC-380/410, AC-400, AC-427, 750 cc. Services 421M2X
85135086	ASET CEGR (Phase IV) AC-460E, AC-460P, 850 cc. Services 421M3X
85135510	ASET IEGR (Phase I & II) 300 hp only, 650 cc. Services 412MX
85135511	ASET IEGR (Phase I & II) 350 and 400 hp, 700 cc. Services 412M2X
85135512	ASET IEGR (Phase I & II) 427 and 460 hp, 750 cc. Services 412M3X
85135089	ASET IEGR (Phase III) AMI-300, AI-300, 650 cc. Services 414MX
85135084	ASET IEGR (Phase III) AMI-335, AMI-370, AI-350, AI-400, 700 cc. Services 414M2X
85135093	ASET IEGR (Phase III) Al-427, Al-460, 750 cc. Services 414M3X
85135090	ASET IEGR (Phase IV) AMI-300, AI-300A, 650 cc. Services 419MX
85135082	ASET IEGR (Phase IV) AMI- 335, AMI-370 w/ 5165/5174 data file, AI-350, AI-400, 700 cc. Services 419M2X
85135085	ASET IEGR (Phase IV) AMI-370 w/5146 data file, AI-427, AI-460, 750 cc. Services 419M3X

WARRANTY: E-TECHTM / ASETTM Injectors – two years / 200,000 miles. All others – one year / unlimited miles.

REMACK® SIX-PACK INJECTOR KITS



	PART NUMBER	APPLICATION cont'd
	85144091	MP7 EPA07 with conical injector sleeves. Services 21457950, 21554442, 21457950, 21554442, 85003711, 85013147, 85003935
	85143384	MP7 EPA10/OBD13 enhanced with coated NCV (Needle Control Valve). Services 21172430, 21307001, 21457952, 21599150, 22027807, 85013159, 85013718, 85137229, 85142314
	85144514	MP7 EPA14/OBD15/OBD16 conical injector kit. Services 22015763, 22479123, 85020031, 85141573, 85020427
		MP8 INJECTORS
	PART NUMBER	APPLICATION
	85144093	MP8 EPA07 with conical injector sleeves. Services 21451295, 21543203, 85003656, 85013152, 85003924
	85143385	MP8 EPA10/OBD13 enhanced unit injectors with coated NCV (Needle Control Valve). Services 21092434, 21119665, 21458369, 21599153, 22027808, 85013160, 85013612, 85137080, 85142315
	85144517	MP8 EPA14/OBD16 conical injector kit. Services 22012829, 22479124, 85020033, 85141571, 85020429
	85144095	MP10 EPA07 with conical injector sleeves. Services 85013157, 85003931
	85148517	MP10 EPA10/OBD13 enhanced with coated NCV (Needle Control Valve). Services 21683459, 22027810, 22717954, 85013613, 85013720, 85137230, 85142316, 85143386
	85148519	MP10 EPA14/OBD15/OBD16 conical injector kit. Services 22218106, 22479125, 22717952, 85020431, 85020576, 85020844
	CO	MMON RAIL FUEL INJECTOR
	PART NUMBER	APPLICATION
•	85150915	MP7 and MP8 EPA 17 / EPA 17 OBD 18/19 Engines. Services 22378579, 22378580, 22726635, 22726637, 85150348, 85150350, 85153229
		Common Rail Kit Includes: - 3 remanufactured pumping Injectors - 3 remanufactured nozzles - 6 sleeves - 6 O-Rings - 6 flange screws - Adjusting screws and nuts
		/ 11 12 1 11

WARRANTY: One year / unlimited miles.

OIL PUMPS

Pressure relief plungers are replaced with 100 percent new. Cover plates are resurfaced, when necessary, to maintain flatness and surface finish.



PART NUMBER	APPLICATION
315GC3118FX*	E6 Engines with 100 psi max. oil pressure gauge
315GC445GX*	E6 Engines with 150 psi max. oil pressure gauge
315GC467MX*	E7 PLN Engines (front or rear sump with increased volume internal gearing). Replaces 315GC460MX, 460M2X (13-tooth driven gear on oil pump shaft). Requires Auxiliary shaft 453GC379AM or 435M. Services new assemblies 315GC460MSeries, 315GC467M, and 315GC473M)
315GC459M2X**	E7 PLN Engines (front or rear sump oil pan, Increased Ratio)(12 tooth driven gear on oil pump shaft) Requires Auxiliary shaft 453GC381AM or 389M. (Services new assembly 315GC459MSeries)
315GC466MX	E7 E-TECH™ and ASET™ Engines (front or rear sump with increased volume internal gearing). Replaces 315GC465BMX (services new assembly 315GC465(A)(B)M, 315GC466M and 315GC472M)
315GC3136X	All E9 V-8 engines

FEATURES: Oil pumps are disassembled, cleaned and inspected. Pressure relief valve plungers are replaced 100 percent. Housing seats are remachined to ensure a proper seal. Pressure relief valve springs are tested and replaced when necessary. Cover plates are resurfaced, when necessary, to maintain proper flatness and surface finish. Product improvements have been incorporated into both the 315GC466MX and the 315GC467MX oil pumps. These pumps have increased volume internal gearing for improved oil pressure to the engine valve train components. All pumps are dynamically tested to ensure proper pressure and flow.

All E9 oil pumps come complete with new bushings and the drive gears installed. All pumps are dynamically tested to ensure proper pressure and flow.

WARRANTY: One year / unlimited miles.

*Drive ratio is 1.3 to 1.0. The drive gear on the auxiliary drive shaft must have 17 teeth. The driven gear on the oil pump shaft has 13 teeth.

**To use (increased ratio) pumps, engines must be equipped with 683GB319 (18-tooth) driving gear on the auxiliary shaft to match the 683GB284 (12-tooth) driving shaft gear on the oil pump. Production tie-in was 2/26/92, serial #2E1233 and higher.

WATER PUMPS

Complete with hub, gaskets and new bearings. A unitized-type seal and stainless steel impellers are installed for increased water flow. Completed pumps are vacuum-tested.



WATER PUMP	S WITH PULLEYS OR HUBS INSTALLED
PART NUMBER	APPLICATION
316GC184NX	Mack 6-cylinder, 2-belt pulley
316GC1184BX	Mack 6-cylinder, 3-belt pulley. No longer available, see 316GC1211FX as an alternative.
*316GC1184BP2X	Mack 6-cylinder, 3-belt cast-iron pulley. No longer available, see 316GC1211FX as an alternative.
316GC1210AX	E6 chassis charge air cooled (302GC43A pulley)
316GC523BX	E6 series cooled (302GC415 pulley)
316GC528CX	E6 4V, 1.72:1 drive ratio (302GC412 pulley)
316GC1211AX	E6 2-belt pulley for viscous fan drive
316GC1211AP2X	E6 2-belt pulley for viscous fan drive for MC/MR FEPTO applications
**316GC548MX#	E7 PLN engines (302GC3192M, 3200M or 4105M pulley). Services 316GC3194P6
**316GC548M2X#	E7 PLN engines (302GC445M, 457M or 4107M pulley). Services 316GC3194P9
**316GC548M4X#	E7 PLN engines (302GC449M, 459M or 4106M pulley). Services assemblies 316GC548AM3 and 316GC3194P8
316GC548M5X#	E7 PLN engines (302GC463M or 4104M pulley). Services 316GC3194P7
316GC4107MX	E7 PLN engines (302GC460M or 4108M pulley). Services 316GC4110M assembly
316GC4108MX	E7 PLN engines (302GC462M or 4109M pulley). Services 316GC4111M assembly
**316GC549MX	E6, CH model (with 302GC445M, 457M or 4107M pulley)
**316GC549M2X	E6, CH model (with 302GC449M, 459M or 4106M pulley)
316GC551MX	E7 E-TECH™ Engines (302GC476M, 4100M pulley). Services 316GC551M5, M6, 316GC559M2, 565M, 565M5, 565M6 and 316GC3194P4
316GC551M2X	E7 E-TECH™ Engines (302GC475M, 4101M pulley). Services 316GC559M, 565M2, 566M, 572M and 316GC3194P2
316GC551M3X	E7 E-TECH™ Engines (302GC479M, 4102M pulley). Services 316GC559M3, 565M3, 565M9, 566M3, 572M3 and 316GC3194P3

WATER PUMPS

WATER PUMPS V	VITH PULLEYS OR HUBS INSTALLED cont'd
PART NUMBER	APPLICATION
316GC551M4X	E7 E-TECH™ Engines (302GC487M, 4103M pulley). Services 316GC551M7, 565M4, 565M7 and 316GC3194P5
316GC552MX	E7 E-TECH™ Engines (302GC477M, 4110M pulley). Services 316GC552M4, M7, 569M, M4, M7 and 316GC3195P2
316GC552M2X	E7 E-TECH™ Engines (302GC478M, 4111M pulley). Services 316GC552M8, 569M2, M8, 574M and 316GC3195P3
316GC552M3X	E7 E-TECH™ Engines (302GC57M, 59M, 516M, 518M pulley). Services 316GC552M5, M9, 569M3 and 316GC3195P5
316GC565M8X	E7 ASET TM "AI" engines w/ mid-mount pump (302GC4112M pulley). Services 316GC565M8
316GC574M2X	E7 ASET™ "AI" engines w/ low-mount pump (302GC4113M pulley). Services 316GC574M2 (robust cover)
WATER PU	MPS WITHOUT PULLEYS INSTALLED
PART NUMBER	APPLICATION
316GC1210DX	REMACK® E6 Water Pump - without pulley. ("With" pulley - part number reference: 316GC1210AX or 528CX)
316GC1211FX	REMACK® E6 Water Pump - without pulley. ("With" pulley - part number reference: 316GC1211AX, 1211AP2X, 1184BX, 1184BP2X or 523BX)
316GC1219AX	REMACK® E6 Water Pump - without pulley. ("With" pulley - part number reference: 316GC549MSeries, 316GC549KMSeries)
316GC284BX	REMACK® E7 or E-TECH™ Water Pump - without pulley. ("With" pulley - part number reference: 316GC548MSeries, 316GC548KMSeries, 316GC551MSeries, 316GC559MSeries, 316GC565MSeries, 316GC566MSeries, 316GC572MSeries, 316GC3194Series)
316GC285BX	REMACK® E7 or E-TECH™ Water Pump - without pulley. ("With" pulley - part number reference: 316GC4107MXSeries, 316GC4108MXSeries, 316GC552MSeries, 316GC569MSeries, 316GC3195Series)

WARNING: Use of a water pump other than what is listed above may result in engine failure or unsatisfactory performance, and will void engine warranty.

(robust cover)

REMACK ASET™ Water Pump - without pulley. ("With" pulley part number reference: 316GC570M...Series, 316GC574M...Series)

316GC289AX

WATER PUMPS

G	GEAR DRIVEN WATER PUMPS	
PART NUMBER	APPLICATION	
316GC274DX	E9 series engines	
CARTRIDGE TYPE COOLANT PUMP APPLICATION		
PART NUMBER	APPLICATION	
85021352	E7 E-TECH™ and ASET™ Engine applications with 149.6mm (5.88") pulley. Services 21437577, 25101405, 22200630, 316GC3196, 316GC3201	
85021353	E7 E-TECH™ and ASET™ Engine applications with 134mm (5.27") pulley. Services 21437575, 25101706, 22200632, 316GC3193, 316GC3200	

FEATURES: Water pumps come complete with hub, gaskets and 100 percent new bearings. A unitized type seal and stainless steel impellers are installed for increased water flow, and completed assemblies are vacuum tested. Studs are installed on the water pump pulley (where applicable) except 316GC184NX and E-TECH™. The 316GC548MX, M2X, M4X, M5X, 549MX, M2X, 4107MX and 4108MX pumps come with either the 8-mm or 10-mm metric studs. Nuts are included with these metric studs.

NOTE: On E7-427 and E7-454 engines, a potential clearance problem exists when using a Kysor® fan drive and a 302GC457M pulley with the 24MH253 fan spacer. To alleviate this condition, use of the 316GC548KM4X (302GC459M pulley) is required.

SPECIAL NOTES: OEM part numbers listed in IMPACT and REMACK part numbers do not necessarily coincide. Consult the above applications to determine the proper reman part number. REMACK® water pumps utilize housings with and without breathers.

WARRANTY: One year / unlimited miles.

FOOTNOTES:

- * 788GB283P4 crankshaft hub 302GC3150 crankshaft pulley and six (6) 6AX1273 screws must be used with this water pump.
- *** Those pumps marked with a double asterisk (**) to the left of the part number can be ordered specially configured for Kysor® Dynair or Horton fan clutches. To order this special pump, insert a "K" before the "M" in the part number. Example: 316GC548KMX, 316GC548KM2X, etc.
- # On early E7 model water pumps using a 771GB4105M water pump housing, REMACK® water pump part numbers 316GC548MX, M2X, M4X or M5X cannot be used without replacing the 771GB4105M housing with part number 771GB530AM(232M) water pump housing to avoid a potential clearance problem between the water pump shaft and the 771GB4105M housing.

OIL COOLER ASSEMBLIES

Remanufactured bundles and housings are assembled, fully inspected and pressure-tested. New O-rings and gaskets are included.



PART NUMBER	HOLSET APPLICATION
312GB367CP2X	E6 Mack® engines
312GB3100MX	All E7 PLN and E-TECH™ Engines with tube type coolers (Services 312GB3100(A)M)

FEATURES: Completely remanufactured oil cooler bundle and housing assembly. Units are assembled after being fully inspected and pressure tested to ensure proper sealing. All remanufactured oil cooler assemblies include inlet and outlet O-rings, cover gaskets and water pump flange gasket. All remanufactured oil cooler assemblies are of the removable bundle type.

WARRANTY: One year / unlimited miles.

REVERSING RELAYS

All relays are of an improved new design. The old steel crimped-type housing has been upgraded to a polished aluminum threaded housing. They are fully inspected and fully tested after assembly to ensure proper functionality.



PART NUMBER	APPLICATION
691GC218CX	Service bulletin G723 & 47D001
691GC218CP2X	Service bulletin G723 & 47D001
691GC218CP3X	Service bulletin G723 & 47D001
691GC218CP4X	Service bulletin G723 & 47D001
691GC218CP5X	Service bulletin G723 & 47D001
691GC218CP6X	Service bulletin G723 & 47D001
691GC218CP8X	Service bulletin G723 & 47D001
691GC218CP9X	Service bulletin G723 & 47D001

WARRANTY: One year / unlimited miles.

ROCKER ARM ASSEMBLIES

Completed assemblies are tested for oil flow and operation. Slipper faces are 100 percent machined. Rocker arms are updated to include the oil hole for better lubrication.



PART NUMBER	APPLICATION
466GC420X	All E6 2VH Non-Dynatard® engines
466GC427AX	All E6 2VH Dynatard®-equipped engines
466GC432CX	All E6 4VH Non-Dynatard®-engines
466GC444CX	All E6 4VH Dynatard®-equipped engines
466GC456AMX	All E7 PLN Non-Dynatard®-engines
466GC457AMX	All E7 PLN Dynatard®-equipped engines
466GC468MX	All E7 PLN Jacobs® Brake-equipped engines
466GC498MX	All E7 E-TECH™ Non-Brake engines (replaces #466GC476MX)
466GC499MX	All E7 E-TECH™ J-TECH™ Brake-equipped engines (replaces #466GC477MX)
466GC4101MX	All ASET™ Al and AC Non-Brake engines
466GC4102MX	All ASET™ Al and AC J-TECH™ Brake-equipped engines
466GC4107MX	All E-TECH™ and ASET™ Al and AC PowerLeash™ Brake engines. Services 466GC4107(A)M

CAUTION: 1989 Pilot Production E7 engines were built with interim rocker stands and bolts. When replacing these 1989 E7 rocker arm assemblies with reman assemblies, you must also replace the bolts. New bolt part number is 416GC114M (M10 X 1.5 X 75—10.9 grade).

FEATURES: All rocker arm assemblies are updated to include the rocker arm slipper face oil lubricant hole. All rocker arms are completely disassembled, cleaned, inspected, remachined (if necessary) and reassembled. Completed assemblies are tested for oil flow and operation. The slipper face surfaces are machined 100 percent.

NOTE: Dynatard® and POWERLEASH™ rocker arm assemblies do not include the solenoid; however, Dynatard® rocker arm assemblies do include the latest hydraulic lash adjuster.

WARRANTY: One year / unlimited miles.

TACH DRIVE ASSEMBLIES

All tach drive assemblies are completely disassembled, cleaned and inspected. Those components not meeting required quality are scrapped and replaced with new. Tach drives are then reassembled and provided to you as an assembly.

All E6 engines



PART NUMBER APPLICATION

769GB14AX

WARRANTY: One year / unlimited miles.

FUEL SUPPLY PUMPS

Features new check valve and check valve spring. New mounting gaskets and copper compression washers are included. Tested for suction, proper pressure and sealing capacity.



PART NUMBER	APPLICATION
314GC228AX	AMBAC supply pump for APE6G and PLM model 300 pumps.
319GC110X	AMBAC supply pump for all APE6BB model pumps.
314GC227X	Robert Bosch single-acting pump for RS192- series pumps. With hand primer. (Reference: 935-O440008015)
314GC227P2X	Robert Bosch double-acting supply pump for P3000-series pumps and previous, excluding 192 series. With hand primer. (Reference: 935-O440008030)
314GC227P3X	Robert Bosch double-acting supply pump for P6000-series pumps. (Reference: 935-9440080011)
314GC227P4X	Robert Bosch double-acting pump for P7011 pumps only. (Reference: 935-9440080017)
314GC227P5X	Robert Bosch single-acting pump for P7100, P7200 V-MAC® and mechanical pumps. (Reference: 935-O440008086)
85020095	Robert Bosch double-acting pump for "inline eight" pumps. Services 935-O440008097X
85020140	Robert Bosch single-acting supply pump for P8500 pumps only with hand primer. Services 935-O440008120X
85013282	E-TECH™ and E-TECH™ CCRS supply pump. Services 322GC45, 322GC49(A), 21089217

NOTE: See Bulletin M50-6 for detailed application cross-reference listing.

NOTE: Our remanufactured supply pump and remanufactured tach drive assemblies P/N 769GB14AX will replace Viking fuel supply pumps. These pumps are no longer available, as the vendor no longer supplies components.

By purchasing both the supply pump and the tach drive assemblies, you will be able to replace the Viking pump assembly for those applications that utilize Viking pumps.

FEATURES: Supply pumps are completely disassembled, cleaned and inspected. Each pump includes a new check valve and check valve spring. New mounting gaskets and copper compression washers are included with each pump. New brass fuel inlet and outlet fittings are installed in all pumps. All supply pumps are dynamically tested for fuel pickup (suction) and high-pressure tested for leakoff to ensure proper pressure and sealing capacity.

WARRANTY: One year / unlimited miles.

V-MAC® ENGINE CONTROL MODULES

Each module is completely tested at room temperature and then heat soaked and retested at simulated operating temperature to ensure all system features meet O.E.M. parameters.



PART NUMBER	APPLICATION
12MS45M4X*	V-MAC $^{\! \odot}$ I Module (replaces 12MS45M, M2, M3, M4 and M5)
12MS45M5X*	V-MAC $^{\! \odot}$ I Module (replaces 12MS45M, M2, M3, M4 and M5)
12MS51M7X	V-MAC $^{\! \odot}$ I Module (replaces 12MS51M, M2, M3, M4, M5, M6 and M7)
215SB224X	V-MAC® I to V-MAC® II conversion kit. See Service Bulletin SB230001 for application requirements.
12MS59M11X	V-MAC [®] II Module (replaces 12MS59M, M2, M3, M4, M5, M6, M7, M8, M9, M10 and M11)
12MS517BMX	V-MAC [®] III Module (replaces 12MS510M, M2, 514M, 517M, AM and BM)

*NOTE: The 12MS45M4X and 12MS45M5X are interchangeable as long as they are programmed as follows:

- If replacing a 12MS45M5 with a 12MS45M4X, re-program the vehicle as an M4
- If replacing a 12MS45M4 with a 12MS45M5X, re-program the vehicle as an M5

<u>CAUTION</u>: The 12MS45M4 cannot be converted to an M5. Do not attempt to re-program a 12MS45M4X as an M5 or vice versa as this could cause damage to the module.

PART NUMBER	NEW V-MAC® III APPLICATION
85013287	V-MAC® III Module for E-TECH™ CCRS Step 8 Model applications. Services 12MS523M, 25123083
85020663	V-MAC® III Module for E-TECH™ CCRS Step 9 Model applications. Services 12MS526M, 25100000
85020547	V-MAC® III Module for ASET™ AC Model applications. Services 12MS520M, 12MS527(A) M, 12MS528M, 12MS532M, 12MS534M, 20903220, 25100050, 25101480, 25128960, 25132509
85020548	V-MAC® III Module for ASET™ AI Model applications. Services 12MS530AM, 20938264, 25101097

FEATURES: Before testing, each module is cleaned and inspected for any external visual damage. The old data files are then deleted. After it passes each test, the module is ready to accept data files for your model and horsepower requirements.

WARRANTY: One year / unlimited miles.

ENGINE CONTROL UNIT



PART NUMBER APPLICATION

85020757

ALL MP7, MP8, MP10 EPA07 and EPA10 Engines, except OBD13. Services 20583789, 20977021, 21042371, 21107008, 21300060, 21358126, 85003744, 85013244, 85021349

FEATURES: All REMACK® Engine Control Units are completely cleaned and inspected for any external visual damage. Old data files are deleted. After multiple testing parameters, the modules are remanufactured and updated to the latest engineering specifications WARRANTY: One year / unlimited miles.

EGR VALVES

All REMACK® EGR valves are completely disassembled and cleaned using the latest technology. The disassembled components receive



rigorous in-process inspections, where each is measured to OE/ reman specifications. One hundred percent new seals are installed. All critical components and "high wear" items are replaced with new. Remanufactured components undergo stringent quality control processes using precision machining centers to ensure performance and reliability standards are met. Complete valves are tested before shipment.

PART NUMBER	APPLICATION
85013122	ASET® Engine applications. Services 691GC514D, 20945752
85153861	MP7 and MP8 EPA07, EPA10, EPA14 and EPA17 Engine applications. (Kit see below for component details) Services 2058200, 21021175, 21095328, 21148784, 21299107, 21435628, 21735863, 22026651, 22721861, 85110394, 85111067, 85123198, 85133799, 85020220

REMACK® MP7/MP8 EGR Valve Kit includes:

- REMACK® EGR valve
- Shoulder screws
- V-band clamp
- · Attaching clamp
- Gaskets

TURBO ACTUATORS

Use REMACK® turbo actuators on your next repair!



PART NUMBER	APPLICATION
85140701	MP7 , EPA04 Engine applications. Services 85013957, 85109211
85013730	MP7, MP8 EPA07 through EPA 17 and MP10 EPA 07 through EPA 14 Engine Applications. Services 21517180, 21754439

FEATURES: All REMACK® Turbo Actuators are completely disassembled and cleaned using the latest technology. The disassembled components receive rigorous in-process inspections where each is measures to Mack/Rreman latest specifications. One hundred percent new gaskets, harness and circuit boards are installed. Complete actuators are tested to the latest product standards on new production equipment before shipment.

WARRANTY: One year / unlimited miles.

TURBO COMPOUND UNIT



PART NUMBER APPLICATION

85021677

MP8 EPA17 OBD20 Turbo Compound Unit *Services 23018941, 23018963, 85021676*

FEATURES:Turbo Compound Units are completely disassembled, and all component parts are thoroughly cleaned and inspected. All critical parts are checked dimensionally. Any parts that do not meet Mack specifications are scrapped and replaced with genuine new. The units are assembled and tested following the same process and procedures as used in new production. This ensures that performance and reliability standards are met.

WARRANTY: One year / unlimited miles.

TURBO KITS - E7 PLN, E-TECH™

When it comes to servicing an engine, REMACK puts quality first. Don't run the risk of more downtime for your customer by not using the highest quality components. Choose the factory quality that only REMACK can provide.



PART NUMBER	E7 PLN APPLICATION
631GC5127AM14X	MH, RW, MCF, E7-350
631GC5127AM21X	R, RD, DM, E7-400
631GC5127AM22X	R, RD, DM, RB, E7-350
631GC5127AM23X	R, RD, DM, RB
631GC5127AM3X	CH, 400
631GC5127AM4X	MH, RW, 400
631GC5127AM5X	CH, EM7-300
631GC5127AMX	CH, E7-350
631GC5138MX	CH, CL, RD600, RD800, 427 AND 454 hp.
631GC5140M2X	CL, MR, RD600 FACELIFT, CONVENTIONAL
631GC5140M3X	CH, RB, RD, DM, RM, MAXIDYNE
631GC5140M4X	CL, MR, RD600 FACELIFT, MAXIDYNE
631GC5140M5X	AUSTRALIA, CH, CL, RD600 FACELIFT, EN7-350V, EN7-400V
631GC5140MX	CH, RB, RD, DM, RM, CONVENTIONAL
631GC5143M2X	E7 MAXIDYNE
631GC5143MX	E7 CONVENTIONAL 400 hp OR LESS
631GC5145M4X	427 AND 454 hp w/ STEALTH BRAKE

PART NUMBER	E-TECH™ APPLICATION
631GC5173AMX	427 AND 460hp
631GC5174BMX	275, 300, 310/350, 330/350, 350, 355/380 hp
631GC5173AM8X	460 hp
631GC5173AM9X	460 hp
631GC5173AM4X	350, 355/380, 380/410, 400, 427 hp

FEATURES: Turbos are completely disassembled, cleaned and inspected. They are brought back to Mack specifications. Precision balancing and functional testing ensures performance and reliability.

WARRANTY: One year / unlimited miles.

TURBO KITS - ASET™ & MP

PART NUMBER	ASET™ AC APPLICATION
631GC5176EM10X	CH, CHN, CX, CXN, 380/410, 400, 427, 460 hp. Services 631GC5176EM3X, 631GC5176EM4X
631GC5176EM11X	CH, CHN, CX, CXN, 355/380 hp. Services 631GC5176EM5X, 631GC5176EM6X
631GC5176EM12X	CH, CHN, CX, CXN, 310/330, 330/350, 350 hp. Services 631GC5176EM7X, 631GC5176EM8X
PART NUMBER	ASET™ AI APPLICATION
631GC5170BMX	CV, RB, RD, 427 AND 460 hp
631GC5170BM8X	MR, 460 hp
631GC5172BM5X	(CV, RB, RD, DM, 460 hp Prior 10/03, w/BRV), (CV, RB, RD, 427hp., 10/03 to 12/03, w/o BRV), (CV, RB, RD, DM, 427 hp., w/ FRT. REDESIGN 1/04 and on), (AMI-370)
631GC5172BM6X	MR, (460 hp. Prior 10/03, w/BRV), (427 hp. 10/03 to 12/03, w/o BRV), (427 hp. w/ FRT. REDESIGN 1/04 and on), (AMI-370)
631GC5172BM3X	CV, RB, RD, DM, 460 hp., 10/03 and later, w/o BRV
631GC5172BM4X	MR, 460 hp., 10/03 and later, w/o BRV
631GC5172BM7X	CV, RB, RD, DM, (427 hp. Prior 10/03, w/ BRV), (300A, 350, 400, AMI- 300, 335, 370 hp.
631GC5172BM8X	(MR, 427 prior 10/03, w/ BRV), MR, LE, 300A, 350, 400, AMI-300, 335, 370 hp.)
631GC5170BM2X	CV, RB, RD, 300A, 350, 400, AMI-300, 335, 370 hp.
631GC5170BM5X	MR, LE, 300A, 350, 400, AMI-300, 335, 370 hp.
PART NUMBER	MP SERIES APPLICATION
85151104	MP7 EPA04 Services 20582651, 20923257, 21168597, 21592747, 22014305, 85000968, 85003212, 85013025, 85013708, 85021425, 85118915, 8511996

PART NUMBER	MP SERIES APPLICATION
85151104	MP7 EPA04 Services 20582651, 20923257, 21168597, 21592747, 22014305, 85000968, 85003212, 85013025, 85013708, 85021425, 85118915, 8511996
85151099	MP7 EPA07, Conventional, Cab-Over Services 20941932, 20941933, 21012876, 21012877, 21080079, 21080080, 21178033, 21178034, 21424405, 21424406, 21424420, 21424421, 21592750, 21592751, 21597915, 21597916, 22014295, 22014296, 22883060 85003107, 85003349, 85003350, 85003609, 85003610, 85013028, 85013029, 85013054, 85013055, 85013711, 85115990, 85115991, 85117028, 85123288, 85123290, 85136170, 85136171, 85021420

TURBO KITS - MP

PART NUMBER	MP SERIES APPLICATION cont'd
85151093	MP7 EPA10, EPA14, Conventional, Cab-Over Services 21187867, 21187868, 21366005, 21366006, 21468128, 21468130, 21559602, 21559603, 22001082, 22001083, 22215683, 22215684, 22880307, 85003636, 85003646, 85003847, 85013037, 85013037, 85013372, 85013373, 85020012, 85020013, 85021416, 85124600, 85124603, 85128129, 85128129, 85128139, 85128129, 8512814059, All conventional and cab-over trucks will be using the same REMACK® turbo. Updates are: Oil Drain Line 22097764 – (conventional) – NO CHANGE 22097766 – (cab-over) – change to 22097764
	Turbocharger Coolant Return Line 20951827 – (conventional) – NO CHANGE 20932397 – (cab-over) – change to 20951827
85151723	MP7 EPA17, Conventional, Cab-Over Services 22891442, 85021613
85151101	MP8 EPA07, Conventional, Cab-Over Services 20751426, 20761335, 21023369, 21023370, 21042278, 21042279, 21178111, 21178112, 21358882, 21358884, 21595174, 21595175, 21675488, 21675489, 22014298, 22014299, 22883062, 85000684, 85000967, 85000969, 85003138, 85003142, 85003233, 85003234, 85013030, 85013033, 85013289, 85013290, 85013598, 85013599, 85021422, 85112870, 85116628, 85116645, 85116968, 85121077, 85121101, 85123538, 85151101
85151095	MP8 EPA10, EPA14, EPA17 Conventional, Cab-Over Services 21238254, 21238391, 21364707, 21364708, 21366001, 21366002, 21468132, 21468134, 21559605, 21559606, 22001085, 22001087, 22215686, 22215687, 22880309, 85003640, 85003642, 85003849, 85003850, 85003964, 85003965, 85013572, 85013573, 85020015, 85020016, 85141061, 85141062, 85021418
85152097	MP8 EPA 17 / OBD18 / OBD19 Fixed Geometry for Turbo Compound Services 22840700

TURBO KITS - MP

PART NUMBER	MP SERIES APPLICATION cont'd
85151103	MP10 EPA07 Services 21059904, 21178038, 21358892, 21424408, 21424410, 21595179, 21597925, 22014304, 85003336, 85003344, 85013035, 85013052, 85020042, 85116643, 85121026, 85121610, 85123210, 85136174
85151097	MP10 EPA10, EPA14 Services 21236205, 21364705, 21365998, 21436841, 21559610, 21799761, 22001091, 22215691, 85003288, 85003646, 85003967, 85013196, 85013577, 85020020, 85141066

TRANSMISSIONS

T200

Synchronized T200 transmissions use the latest synchronizer assembly and front shift covers.



MODEL	SPEED
T2050 T2050A	Five
T2060 T2060A	Six
T2070 T2070A T2070B T2070C T2070F	Seven
T2080 T2080B T2080C	Eight
T2090 T2090LR T2090R	Nine
T2100	Ten
T2110B	Eleven
T2130 T2130B	Thirteen
T2180 T2180A T2180B	Eighteen

FEATURES: Transmissions are completely disassembled, cleaned and inspected. One hundred percent new bearings, seals and gaskets are installed. All worn and spalled gears are replaced. Housings are bored, sleeved and realigned when necessary. Synchronized transmissions are built utilizing the latest synchronizer assembly and front shift covers to ensure smooth shifting and better performance. All transmissions are tested before shipment.

NOTE: REMACK® Transmissions do not include the externally mounted oil pump. If an oil pump is required, contact Specification Dept. for an internal oil pump transmission alternative.

WARRANTY: Two years / unlimited miles.

TRANSMISSIONS

T300

Synchronized T300 transmissions use the latest synchronizer assembly and front shift covers.



MODEL	SPEED
T305	Five
T306G	Six
T307 T307M	Seven
T308 T308M TM308 TM308M	Eight
T309 T309L T309LR T309M TM309M	Nine
T310 T310M T310ME T310MLR	Ten
T313 T313L21 T313LR T313LR21	Thirteen
T318 T318L21 T318LR T318LR21	Eighteen

FEATURES: Transmissions are completely disassembled, cleaned and inspected. One hundred percent new bearings, seals and gaskets are installed. All worn and spalled gears are replaced. Housings are bored, sleeved and realigned when necessary. Synchronized transmissions are built utilizing the latest synchronizer assembly and front shift covers to ensure smooth shifting and better performance. All transmissions are tested before shipment.

WARRANTY: Two years / unlimited miles.

T300 SYNCHRONIZER REPLACEMENT KIT

T300 Transmission Synchro Kit

Mack has updated the T300 Transmission Synchronizer Kits to include more parts – which means a better repair and better value! The kit is an efficient, simple solution to T300 synchronizer repairs for both customers and dealers.



PART NUMBER	APPLICATION	
85148828	T313 (LR) T318 (LR) T310M	
85148829	T310	

WARRANTY: One year / unlimited miles.

mDRIVE™ TRANSMISSIONS - D-SERIES

REMACK® mDRIVE™ OBD13, EPA14 and OBD15 complete transmissions are available with computer architecture that will service all OBD13, EPA14, OBD15 and OBD16 configurations. These complete units have premium reliability, durability and performance, and are backed by a two year /unlimited mileage warranty.



mDRIVE™ Complete

PART / MODEL	COMPLETE / HD TRANSMISSION APPLICATION
85020577	REMACK® <i>m</i> DRIVE™ Model TmD12AD (AT2612D) Transmission applications. Services 3190628, 3190803, 3190964, 85003851, 85003853 85013437, 85020025 (Variants – TC-MWOR, URETARD, PSS-SING)
85020578	Model TmD12A0 (ATO2612D) Transmission applications. Services 3190804, 3190966, 85003852, 85013439, 85020026 (Variants – TC-MWOR, URETARD, PSS-SING)
85020351	Model TmD12AD-HD (AT612D-HD) Transmission applications. Services 3190931 (Variants – TC-MWOR, URETARD, PSS-SING)
85020352	Model TmD12AO-HD (ATO2612D HD) Transmission applications. Services 3190932 (Variants – TC-MWOR, URETARD, PSS-SING)
85020579	Model TmD12AO-HDX (ATO3112D) Transmission applications. Services 3190898, 3190933, 3190968, 85003853, 85003858, 85020353 (Variants – TC-MWOR, URETARD, PSS-SING)

WARRANTY: *m*DRIVE™ **Complete** / **Basic** Transmissions, two years / unlimited miles. *m*DRIVE™ **Short** Transmissions, one year / unlimited miles, excluding the parts installed by dealer.

mDRIVE™ TRANSMISSIONS - D-SERIES



m**DRIVE™ Basic**

PART / MODEL	BASIC STANDARD / HD TRANSMISSION APPLICATION
85013437	Model TmD12AD (AT2612D) Transmission applications. Services 3190625, 3190628, 3190803, 85003851, 85003853, 85020025, 85020577, 85131807 (Variants – TC-MWOR, URETARD, PSS-SING)
85013439	Model TmD12AO (ATO2612D) Transmission applications. Services 3190626, 3190804, 85003852, 85020026, 85020578, 85131808 (Variants – TC-MWOR, URETARD, PSS-SING)
85020437	Model TmD12AD-HD (AT2612D HD) Transmission applications. Services 3190931, 85020351 (Variants – TC-MWOR, URETARD, PSS-SING)
85020438	Model TmD12AO-HD (ATO2612D HD) Transmission applications. Services 3190932, 85020352 (Variants – TC-MWOR, URETARD, PSS-SING)
85020439	Model TmD12AO-HDX (ATO3112D) Transmission applications. Services 3190898, 3190933, 3190968, 85013441, 85020353, 85020439, 85020579 (Variants – TC-MWOR, URETARD, PSS-SING)



mDRIVE™ Short

PART / MODEL	SHORT STANDARD / HD TRANSMISSION APPLICATION
85013438	Model TmD12AD (AT2612D) Transmission applications. Services 3190625, 3190628, 3190803, 85003851, 85003853, 85020025, 85020577, 85131807 (Variants – TC-MWOR, URETARD, PSS-SING)
85023330	Model TmD12AO (ATO2612D) Transmission applications Services 3190626, 3190804, 85003852, 85020026, 85020578, 85131808, 85013440 (Variants – TC-MWOR, URETARD, PSS-SING)
85023332	Model TmD12AD-HD (AT2612D HD) Transmission applications. Services 3190931, 85020351, 85020437, 85020444 (Variants – TC-MWOR, URETARD, PSS-SING)
85020445	Model TmD12AO-HD (ATO2612D HD) Transmission applications. Services 3190932, 85020352, 85020438 (Variants – TC-MWOR, URETARD, PSS-SING)
85020446	Model TmD12AO-HDX (ATO3112D) Transmission applications. Services 3190898, 3190933, 3190968, 85013441, 85013442, 85020353, 85020439, 85020579 (Variants – TC-MWOR, URETARD, PSS-SING)

WARRANTY: *m*DRIVE™ **Complete** / **Basic** Transmissions, two years / unlimited miles. *m*DRIVE™ **Short** Transmissions, one year / unlimited miles, excluding the parts installed by dealer.

mDRIVE™ TRANSMISSIONS - F-SERIES

REMACK F-Series mDrive Complete, Basic and Short transmissions are completely disassembled, cleaned and rigorously inspected. All critical and "high wear" items are replaced with new. Remanufactured components are precision machined.



mDRIVE™ Complete

PART / MODEL	COMPLETE STANDARD TRANSMISSION APPLICATION
85020869	Model TmD12AFD (AT2612F) 12-Speed Transmission applications. Services 60150837
85020867	Model TmD12AFO (ATO2612F) 12-Speed Transmission applications. Services 60150839
85022593	Model TmD12AFO (ATO2612F) 12 Speed "Wide Bearing" Transmission applications. Services 60151003
PART / MODEL	COMPLETE HD TRANSMISSION APPLICATION
85020868	Model TmD12AFD-HD (AT2612F) 12-Speed HD Transmission applications. Services 60150838, 85021593
85020866	Model TmD12AFO-HD (ATO2612F) 12-Speed HD Transmission applications. Services 60150840
PART / MODEL	COMPLETE CRAWLER TRANSMISSION APPLICATION
85020864	Model TmD14AFD-HD (AT2612F) 13- and 14-Speed Transmission applications. Services 60150842
85020863	Model TmD14AFO-HD (ATO2612F) 14-Speed Transmission applications. Services 60150843
85020860	Model TmD13AFO-HD (ATO2612F) 13-Speed Transmission applications. Services 60150846

WARRANTY: mDRIVE™ Complete / Basic Transmissions, two years / unlimited miles. mDRIVE™ Short Transmissions, one year / unlimited miles, excluding the parts installed by dealer.

*m***DRIVE TRANSMISSIONS - F-SERIES**



mDRIVE™ Basic

PART / MODEL	BASIC STANDARD APPLICATION
85021592	Model TmD12AFD (AT2612F) 12-Speed Transmission applications. Services 60150837, 85020869
85021594	Model TmD12AFO (ATO2612F) 12-Speed Transmission applications. Services 60150839, 85020867
PART / MODEL	BASIC HD APPLICATION
85021595	Model TmD12AFO-HD (ATO2612F) 12-Speed HD Transmission applications. Services 60150840, 85020866
PART / MODEL	BASIC CRAWLER APPLICATION
85021815	Model TmD12AF (AT2612F) 13- and 14-Speed Transmission applications. Services 60150842, 85020864
85021816	Model TmD12AF (ATO2612F) 14-Speed Transmission applications. Services 60150843, 85020863
85021817	Model TmD12AF (ATO2612F) 13-Speed Transmissions applications. Services 60150846, 85020860



mDRIVE™ Short

	PART / MODEL	SHORT STANDARD APPLICATION	
•	85021596	Model TmD12AF (AT2612F) 12-Speed Transmission applications. Services 60150837, 85020869, 85021592	
	85021598	Model TmD12AF (ATO2612F) 12-Speed Transmission applications. Services 60150839, 85020867, 85021594	
	85022595	Model TmD12AFO (ATO2612F) 12 Speed "Wide Bearing" Transmission applications. Services 60151003, 85022593	
	PART / MODEL	SHORT HD APPLICATION	
	85023342	Model TmD12AF (AT2612F) 12-Speed HD Transmission applications. Services 60150838, 85020868, 85021593, 85021597	
	85023344	Model TmD12AF (ATO2612F) 12-Speed HD Transmission applications. Services 60150840, 85020866, 85021595, 85021599	
	PART / MODEL	SHORT CRAWLER APPLICATION	
	85021818	Model TmD12AF (AT2612F) 13- and 14-Speed Transmission applications. Services 60150842, 85020864, 85021815	
	85021819	Model TmD12AF (ATO2612F) 14-Speed Transmission applications. Services 60150843, 85020863, 85021816	
	85023349	Model TmD12AF (ATO2612F) 13-Speed Transmission applications. Services 60150846, 85020860, 85021817, 85021820	
١	WARRANTY: mDRIVE™ Complete / Basic Transmissions		

WARRANTY: mDRIVE™ Complete / Basic Transmissions, two years / unlimited miles. mDRIVE™ Short Transmissions, one year / unlimited miles, excluding the parts installed by dealer.

TRANSMISSION RANGE SECTION

Always use the REMACK® Range Section Kit when replacing just the range section. This kit comes with everything needed for your install including a new transmission oil filter and O-rings.



PART NUMBER APPLICATION

85020425

Model **TmD12AD** (AT2612D) and model **TmD12AO** (ATO2612D) D and F Transmission applications.

FEATURES: All REMACK® mDRIVE™ Transmission Range Sections are completely disassembled and cleaned using the latest technology. The disassembled components receive rigorous in-process inspections where each is measured to OE/reman specifications. One hundred percent new bearings, seals, gaskets and speed sensor are installed. The latest engineering updated high range drum, range clutch, engaging ring and synchronizer ring are utilized. All critical components and "high wear" items are replaced with new. Remanufactured components undergo stringent quality control processes using precision machining centers to ensure performance and reliability standards are met.

WARRANTY: One year / unlimited miles.

CLUTCH CONTROL ACTUATOR



PART NUMBER	APPLICATION
85022460	D & F model mDrive AMT including TmD12AO- HDX with single mass flywheel. Services 23417527

FEATURES: All REMACK Clutch Control Actuators are fully disassembled and cleaned using the latest technology. The disassembled components receive rigirous in-process inspections where each is measured to OE/Reman specifications. All critical components and "high wear" items are replaced with new. Final assembly is completed and tested the same as new.

WARRANTY: One year / unlimited miles.

CONTROL UNITS CYLINDER HOUSINGS TOP COVERS





CONTROL UNIT (GCU)

PART

TOP COVER (TECU)



CYLINDER HOUSING (MU) (No Top Cover)

CONTROL UNIT

NUMBER	APPLICATION
85020895	mDRIVE™ D-series models. Services 20829006, 21244587, 21571888, 21484417, 22117375, 22780684, 85013943
PART NUMBER	CYLINDER HOUSING APPLICATION
85021341	mDRIVE™ D-series models. Services 20775880, 21244590, 21571890, 22106416, 22780686, 85020883
PART NUMBER	TOP COVER APPLICATION
85013227	<i>m</i> DRIVE [™] D-series models. Services 20829012, 21274018, 21484418

FEATURES: All remanufactured control units, cylinder housings and top covers are completely cleaned and inspected for any damage, and are remanufactured according to the latest engineering specifications.

WARRANTY: One year / unlimited miles.

WARNING: Use of a control unit, cylinder housing or top cover other than what is listed above may result in transmission failure or unsatisfactory performance, and will void transmission warranty.

TRANSMISSION FRONT TOP COVER ASSEMBLIES

All covers are cleaned and inspected. Bores are machined as required. Shift rails are gauged for size and straightness.



PART NUMBER	APPLICATION
110KB420X	T2050, up to Serial No. 900435 utilizing 1st and reverse shift fork P/N 575KB3330B
110KB423AX	T2060 with compound shift interlock (11KB51408AP3 up to Serial No. 1G0458), T306 with compound shift interlock. Services 110KB463
110KB429AX	T2060 with compound shift interlock (11KB51408AP3, 6, 7 or 8 after Serial No. 1G0458)
110KB460X	T2050 from Serial No. 900436 utilizing 1st and reverse shift fork part number 575KB3306B, T2060, T2070, T2070A, T2070F, T305, T306 and T307. Replaces 110KB422X
110KB461X	T2070B, T307M with multi -speed reverse. Replaces 110KB432X, 110KB464X, T2080B with multi-speed reverse, T308M. Replaces 110KB431AX
110KB465X	T309(L)(LR) with 8th gear inhibitor, T313L21(LR21), T318L21(LR21)
110KB466X	T2060A, T306G, TM308. Replaces 110KB434BX
110KB467X	TM309 with compound shift interlock 110KB468X, TM308M
110KB470X	T2080, T2090, T2100, T2130(A)(B), T2180(A) (B), with or without FWPTO. T308, T309(L) (LR),TM309M, T310M(ME)(MLR), T313(L)(LR), T318(L)(LR). Replaces 110KB426AX and 110KB430AX. Services 110KB462 and 110KB469

FEATURES: Top covers are disassembled, cleaned and inspected. Covers out of tolerance are bored and sleeved, when required, to ensure proper size and alignment. Shift rails are gauged for size and straightness. All "range valve" type top covers are built with the latest style, nonadjustable pin height design. All covers are assembled, tested and ready for installation.

WARRANTY: One year / unlimited miles.

TRANSMISSION REAR COMPOUND SHIFT COVERS

Compound shift covers (rear) are remanufactured to the same quality as our front top covers. They are disassembled completely, cleaned and inspected. All covers are ready for installation into T200 and T300 series transmissions.



PART NUMBER	APPLICATION
393KB39X	T2080, T2090, T2100
393KB39P2X	T2060, T2070, T2070F
393KB515AP3X	T2070B, T2080B, T2110B, T308M, T310M, T310MLR
393KB520X	T2130(A)(B). T2180(A)(B), T313L(LR), T318L(LR). Not applicable for (T313/T318 L21s or LR21s)

FEATURES: Compound shift covers (rear) are remanufactured to the same quality as our front top covers. They are disassembled completely, cleaned and inspected. All covers are ready for installation into T200 and T300 series transmissions.

WARRANTY: One year / unlimited miles.

CARRIERS

Now you have a choice between Remanufactured and Rebuilder Series™ carriers.



REMANUFACTURED MODELS AVAILABLE

CRD92 CRD931A CRDP200

CRD921 CRDL93 CRDP200 w/lockout

CRDL92 CRDP95 CRDP2001

CRDLP92 CRDP95 w/lockout CRDP2001 w/lockout CRDLP92 w/lockout CRD96 CRD201

 CRDPC92
 CRD112
 CRD2011

 CRDPC92 w/lockout
 CRDPC112
 CRDP202

CRDPC921 CRDPC112 w/lockout CRDP202 w/lockout

CRDPC921 w/lockout CRDPC1121 CRDP2021

CRD93 CRDPC1121 w/lockout CRDP2021 w/lockout

CRD931 CRD113 CRD203 CRD93A CRD1131 CRD2031

150 SERIES MODEL – FOR STANDARD AND V-ROD APPLICATIONS

CRDPC 150 Std. Diff.

Std. Diff., PDLO Diff. Lock Diff. Lock, PDLO

CRDPC 1501 IWPD Diff.

IWPD Diff., PDLO

CRD 151 Std. Diff.
Diff. Lock

CRD 1511 IWPD Diff.

180 SERIES MODEL – FOR STANDARD AND V-ROD APPLICATIONS

CRDPC 180 Std. Diff.

Std. Diff., PDLO Diff. Lock Diff. Lock, PDLO

CRDPC 1801 IWPD Diff.

IWPD Diff., PDLO

CRD 181 Std. Diff.

Diff. Lock

CRD 1811 IWPD Diff.

IMPORTANT INFORMATION: This remanufactured carrier has the upgraded V-Stay bolt hole with **coarse threads**. You may need to upgrade the following parts based on your truck's current configuration:

- V-Stay bolt (coarse threads)
- Washer (thicker)
- Ball joint assembly (redesigned for thicker washer)

Service kits are available. Please reference MTPI 655-014, TPI 655-015 and FSB 652-005.

NOTE:

Diff. = Differential PDLO = Power Divider Lock Out Std. = Standard IWPD = Inter Wheel Power Divider

WARRANTY: Two years / unlimited miles for standard and V-ROD applications.

CARRIERS

REMACK and Rebuilder Series Offering

"11KH" SERIES	"P" VARIATIONS	REMACK OFFERING	REBUILDER SERIES OFFERING
4000 & 5300 Series	ALL	YES	N/A
5400 Series and Higher	No "P" through P6	YES	YES
5400 Series and Higher	P7 and Higher	YES	N/A

FEATURES: Carriers are completely disassembled, cleaned and inspected. One hundred percent new bearings, cups and seals are installed. Carrier components, power divider and lock-out assemblies, where applicable, are completely remanufactured. All worn and spalled gears are replaced. Housings are bored and sleeved when necessary. Gear patterns and preloads are checked throughout the remanufacturing process to ensure proper specifications are maintained.

WARRANTY: One year / unlimited miles.

NOW YOU HAVE A CHOICE!

Remanufactured vs. Rebuilder Series™ Carrier

REMANUFACTURED CARRIER	REBUILDER SERIES™ CARRIER	
Two-year / unlimited-mile warranty* (except 95/96 models, 6 months / unlimited miles).	One-year / unlimited mile warranty*.	
Most all Mack models available.	Models available: CRDPC92, 112, CRD93, 113, CRD200.	
Units always disassembled, cleaned and processed with 100 percent new bearings and races installed.	One hundred percent new bearings and races installed. However, low mileage take-out units or assemblies may be used.	
Tight OEM or reman specifica- tions adhered to for size and finish on all housing bores and wear surfaces. All inspection done with calibrated gauging.	Visually inspected for obvious damage - limited gauging of parts or housings.	
Machine all parts and housings back to OEM or service specifications.	Visually inspect for obvious damage only.	
One hundred percent genuine Mack service parts.	Parts removed at teardown are inspected for re-use.	
Assembled by trained factory technicians.		
Engineering backing and guidance.		

^{*}See warranty manual

WARNING: Use of a carrier other than what is listed above and on the previous page may result in carrier failure or unsatisfactory performance, and will void engine warranty. REMACK POWER DIVIDER LOCK OUT KITS

Mack Trucks will now offer REMACK® Power Divider Lock Out Kits for CRDPC92, CRDPC112, CRDPC 200, CRDPC 202, CRDPC150 and CRDPC180 model carriers. The program uses the latest engineering updates to maximize performance. The benefit to you as a dealer will be to service your customers with a competitively priced genuine Mack product, while delivering the premium reliability, durability and performance you get with any REMACK product.

Power Divider Lock Out Kits provide multiple service options.

Update a carrier to PDLO or a repair option on an existing unit.

PART NUMBER	POWER DIVIDER LOCK OUT KIT APPLICATION
85146537	CRDPC 92, 921, 112 and 1121 models (fine spline applications only)
85146541	CRDPC 200, 2001, 202 and 2021 models
85146539	CRD 125 150 180 1501 and 1801 models

FEATURES: All REMACK® Power Divider Lock Out Kits come with all the components needed to either upgrade or replace the PDLO system, including components susceptible to high wear (inner and outer cams, wedges). These components are pre-assembled as much as possible for quick installation. Refer to picture.

- The PDLO housing sub-assembly includes fork, clutch, rail, piston, spring, cover, etc.
- The bearing retainer cover includes its seal pre-installed.
- The lockout wedge cage sub-assembly includes the wedges, and the inner and outer retaining rings.

New components include 100 percent new bearings, o-rings and gaskets.

WARRANTY: One year / unlimited miles.

WARNING: Use of a power divider lock out kit other than what is listed above may result in failure or unsatisfactory performance, and will void warranty.

CARRIER RATIO CONVERSION FOR NEW MODEL CHASSIS

This program is intended to aid dealers with **NEW** (vehicles in stock) which require a ratio conversion to expedite the sale.

ORDERING:

Contact Order Entry at the Middletown Reman Center at: 1-800-5RE-MACK (573-6225).

They will need to know the following information to quote the price and turnaround time:

- 1) The type of carrier OEM Number
- 2) The current ratio and the desired ratio
- 3) Any additional changes required to the carrier
- 4) The chassis model and serial number

The charges are as follows:

- \$ 400 Ratio Change
- \$ 880 Add a new power divider lockout
- \$ 1,280 Ratio change and new power divider lockout
 - 1,700 Install inner wheel power divider (does not apply to differential lock carriers)

Freight Dealer responsible for both inbound and outbound freight

NOTE:

- 3.86, 4.64, 6.06 Ratios NOT available for IWPD conversions (92/93, 200, 95/96 Models)
- 3.11, 3.25, 3.40, 3.56, 4.50 Ratios NOT available of IWPD conversion (150/151 Models)

Dealers will be notified by Order Entry on the turnaround time within one (1) working day of the initial contact. To proceed with the carrier ratio conversion, contact Order Entry at the Middletown Reman Center and provide them the requisition number and freight carriers to Middletown.

Carriers should be accompanied by a parts requisition form indicating the requisition number for billing and a note reconfirming the carrier ratio desired.

To ensure best turnaround time:

- Notify your contact in Middletown before sending units to the Reman Center
- Tag the units or the container/skid in a manner so the tag is visible from the outside of container/skid.
- The tag must boldly state "RATIO CONVERSION." This will prevent units from being mistaken for cores

SHIP TO: Middletown Remanufacturing Center

2800 Commerce Drive Middletown, Pa. 17057

Make sure to note on Mack Truck's preferred freight company's paperwork, not to hold the units, as they would for normal core return shipments. Prior to shipping, drive yokes and the v-rod suspension components must be removed.

Call your order entry contact with the Freight Bill Number to ensure uninterrupted delivery service to Middletown.

NOTES:

- All removed material becomes the property of the Middletown Reman Center
- The Middletown Reman Center will use only new Mack material to make the conversion
- 3) The prices quoted in this letter are for CRD150(1), CRD151(1), CRD 180(1), and CRD181(1) models. Other models such as CRDP95(1) and CRD96(1), may incur additional charges. The Order Desk at the Middletown Reman Center will provide a quote for the service.

NOTES:

- All removed material becomes the property of the Middletown Reman Center.
- The Middletown Reman Center will use only new Mack material to make the conversion.
- The prices quoted in this letter are for CRD150(1), CRD151(1), CRD 180(1), and CRD181(1) models. Other models such as CRDP95(1) and CRD96(1), may incur additional charges. The Order Desk at the Middletown Reman Center will provide a quote for the service.
- Carriers sent to Middletown must be free of "road dirt" or a clean- up charge of \$50 per unit will be assessed. If necessary, steamclean units before removing from chassis.
- The Middletown Reman Center will accept warranty responsibility for workmanshipof the conversion and the material used. The warranty coincides with that of the new vehicle being sold.
- The dealer is responsible both inbound and outbound freight cost.
 Carriers will be returned on wood shipping stands.

DEF PUMP



PART NUMBER DEF PUMP APPLICATION

85003864 **MP Series EPA10 through EPA17** Chassis applications. Services 21577511

FEATURES: All REMACK® DEF Pumps are disassembled and cleaned using the latest technology. The disassembled components receive rigorous in-process inspections where each is measured to OE / reman specifications. All criticial components and "high wear"

items are replaced with new. Final assembly is completed and tested on the same production line as new.

WARRANTY: One year / unlimited miles.

REMACK



NEED IT NOW? WE'VE GOT YOU COVERED.

We've built a U.S. and Canadian network of more than 300 full-line dealers that is stronger than ever. No matter where you are, there's always a Mack dealer up ahead.

REMACK also offers one of the strongest warranties in the country - 100 percent parts and 100 percent labor, if your part is installed by an authorized Mack dealer.

MACK

P.O. BOX 26259 • 7900 NATIONAL SERVICE ROAD GREENSBORO, NC 27402-6115