

**THE BMW Club Tool Hire List for Post /5 Models as at 02/01/2016**

Part No.	BMW Part No.	Description	To Fit	Notes/Function
200		Rocker assembly jig & 8 shims	R /5	To align rocker assembly on /5 models
00-2-500		Dial Gauge Holder	All	
00-2-510		Dial Test Indicator Gauge for use with 33-2-620 and for static timing setting.	All	Measuring tool for rear drive and for static timing setting.
00-2-570		Friction Gauge	All	Used to measure taper roller bearing friction e.g. head bearings.
00-2-580		Dial Gauge Holder/extension	K	Used to hold a dial gauge when setting TDC on K Br4ick engines.
00-2-590		Plastigauge	K	
00-2-600		TX30 Torx insert/socket	K	General use.
00-5-010	83300490466	Internal puller, o/p & aux shaft seals	R850R/GS/R1100R/GS/ R1100RT/RS, K1200	
00-5-500	83300490475	Drift punch handle	All	Used on a variety of drifts.
00-5-550	83300490476	Drift	All	For wheel, swing arm bearing & oil sight glass
00-7-500	83300490482	Universal Extractor Kukko 17K KOP	All	Various extractor applications including bearing splitting.
00-7-521	83300401386	Thrust Piece	R1200, K1200/K1300 (K4x Slant)	Removing taper roller bearing, fork bridge / inner race, final drive
00-8-400		Extractor Kukko 44-1	R&K	For bearings.
00-8-561		Kukko extractor collet 21/6	All	36 - 46mm. Fits most headbearings. Can also be used with 3142DB300 - Slide hammer.
00-8-563		Kukko extractor collet 21/5	All	30 - 37mm Fits the swing arm bearings on airheads and swinging arm outer bearing cup of the Oilheads.. Can also be used with 3142DB300 - Slide hammer.
00-8-566		Kukko two legged extractor 22-2 (without collets)	All	See also 00-8-572
00-8-571		Kukko extractor collet 21/2	All	14 - 19mm Fits Oilhead swingin arm bearings inner. For outer bearing cup see 00-8-563. Can also be used with 3142DB300 - Slide hammer.
00-8-572		Kukko Inner Race Extractor 22-1 (without collets)	All	two legged internal puller for aux shaft freewheel & wheel bearings. Use with appropriate expanding collet
00-8-573		Kukko extractor collet 21/4	All	20 - 30mm. Fits Oilhead paralever bearings. Can also be used with 3142DB300 - Slide hammer.
00-8-574		Kukko extractor collet 21/3	All	18 - 23mm. Can also be used with 3142DB300 - Slide hammer.
00-8-575		Threaded bar extension for 00-8-572	All	
00-8-580 (00-8-581) (00-8-582) (00-8-583) (00-8-584) (00-8-585) (00-8-586) (00-8-587)	83300401399 83300401400 83300401401  83300406432 83300406424	Pull rod for Gearbox Seal & reverser gear removal. Impact weight for pull rod. Awl for piercing sealing rings Adaptor for pull rods. M6 Adaptor - Use when removing reverser gear cover. Drill bit stop. Adapter, cone-head self-tapping screw.	R850C - 1200, K1200, R11xx, K1200/K1300 (K4x Slant)	Kit for reverser cover removal. Also for gearbox seal removal. Also use 00-8-581, 582 & 583 to remove crank rear seals on R850 & R11xx  586 - Prevents the drill bit from piercing too deeply into the shaft sealing ring 587 - Screws into shaft sealing ring
00-8-581	83300401399	Spare Pull rod for Gearbox Seal & reverser gear removal.	R850C - 1200 K1200	Use with 00-8-582
00-8-582	83300401400	Spare Impact weight for pull rod.	R850C - 1200 K1200	Use with 00-8-581
00-8-583	83300401401	Spare Awl for piercing sealing rings	R850C - 1200 K1200	Use to prepare hole for 00-8-581
00-8-584		Spare Adaptor for pull rods	K1200	Use with 00-8-581
00-8-585		Spare M6 Adaptor for use with puller to remove reverser gear cover	K1200	Use with 00-8-580
00-8-590		Puller	R850C, R1100S - 1200 K1200	To remove the shaft sealing ring in the G/Box cover. To install seal use 23-4-731 & 23-4-732.
00-9-500		Riveter, Cockpit Integral	All	For the hollow copper rivits in the fairing cockpits.
02568/1		Fork Top Cap pin wrench	R /5 /6	Self explanatory
11-1-250		Tongs,	K, R11xx, R12xx	To remove valve guide seals
1112DB350		Allen Socket, Cylinder Head Bolts	K	Self explanatory
1112DB400-410		T27 / 30 Torx key	All	General
11-1-600		Drift - pushrod grommets	R to 1985	For Pushrod grommets.
11-1-610		Drift - camshaft cover seal	K (Brick)	For camchain cover seal. Use with 00-5-500.
11-1-620		Drift - Aux shaft seal	K (Brick)	For Alternator drive flange seal. Use with 00-5-500
11-1-630		Drift - Output shaft seal	K (Brick)	For crank rear output seal. Use with 00-5-500). One has been modified to the latest tool dimensions.
11-1-640		Drift - Water/oil pump shaft sealing ring	K (Brick)	For installing water/oil pump shaft sealing ring on early K (brick).
11-1-660		Gripping Tool, pressure relief valve	R 2 valve twin	To remove pressure relief valve
11-1-680		Reducing nipple for 00-7-500	R	
11-1-700		Cylinder Head removing tool	R	
11-1-720 (11-1-721) (11-1-722)	83300401450 83300401451	<b>Kit consists of:</b> Lever (Hold down tool) Supporting wedge	K Brick	This consists of lever 11-1-721 and spacer 11-1-722 spacer to hold the valve bucket. <b>NOT FOR 16 valve</b> (for 16v see 11-3-700 & 11-2-640)
11-1-730		Tongs, for valve shim removal	K Brick	Not 16 valve

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11-1-740		Valve spring clamping jig	K Brick	Self explanatory
11-1-747		Support, Use with 11-1-740	K Brick	
11-1-760		Drift, valve guide, removal	R45/65	Valve guide, removal
11-1-770		Drift, valve guide, fit	R45/65	Valve guide, fit
11-1-780		Drift 8mm valve guide, removal	R 2 valve twin	Self explanatory
11-1-790		Drift 8mm valve guide, fit	R 2 valve twin	Self explanatory
11-1-800	8330 401470	Extractor, timing chain cover	R 2 valve twin	Self explanatory (2 parts, threaded spindle and puller plate)
11-1-820		Centring bush / sleeve	R to 1975	
11-1-830		Centring bush / sleeve	R 1975 on	To fit and centre the timing cover. (Goes over the advance & retard shaft). Also used to press in the cam seal.
11-1-842	83300401482	Locating Pin	K1200/1300 Slant	To lock the crankshaft at TDC
11-1-850		Seal drift	R, K1200/K1300 (K4x Slant)	To press in the radial seal on the crank front. Also for g/box i/p shaft sealing ring.
11-1-880	83300401489	Seal drift	R 2 valve twin	For crank rear main seal (One damaged)
11-1-881		Spacer for use with 11-1-880	R 2 valve twin	Ensures seal is pushed into the correct depth.
11-1-890	83300401496	Crankshaft Rear seal remove / refit	R 2 valve twin	KOP (4 pieces) Mounts across crankcase to hold 11-1-880
11-1-931	83300401502	Eccentric gauge	K1200/1300 Slant	Adjusting chain of oil pump
11-1-940		Drift for valve stem seal	K Brick	Self explanatory
11-2-500		Torque gauge indicator	All	Tightening threaded fasteners by correct angle of rotation.
11-2-600	83300401509	KOP Puller duplex timing chain sprocket	R 2 valve twin	Self explanatory
11-2-606		Sleeve Head, for use with 11-2-600	R 2 valve twin	Use grooved one for single row chain.
11-2-620	83300401516	Press on bush. Use with 11-2-630	R 2 valve twin	Installing sprocket, crankshaft. Use with 11-2-630
11-2-630	83300401519	Presser Used with 11-2-620	R 2 valve twin	Installing sprocket, crankshaft. Use with 11-2-620
11-2-640		Cam Tensioner Tool	K	16 Valve Engine
11-2-650	83300401523	TDC Locating Pin	R1100/1150/1200	Self explanatory
11-2-671	83300401524	Locating pin	K1200, K1300 K4x (Slant)	Pretensioning tensioning gear, alternator drive
11-2-700		Presser, main bearing removal	R	To press out main bearings. Used with 11-2-710.
11-2-710		Assembler, main bearings	R	
11-2-720		Presser, for use with 11-2-710	R	To press in main bearings.
11-2-741	83300418071	Puller 11-4-741 (M22 x 1.5),	R1200	Removing gear from crankshaft
11-2-742	83300444279	Puller 11-4-742 (M27 x 1.5)	R1200	Removing gear from crankshaft
11-2-800		Clutch / flywheel retainer	R	Holds flywheel to enable clutch or flywheel bolts to be removed/fitted.
11-2-810	83300401533	Extractor, flywheel (3 pieces)	R&K	Self explanatory
11-2-860		Universal spanner, big ends	R	Self explanatory
11-2-905		Piston Ring Clamp	R	R65/75/80
11-2-910		Piston Ring Clamp	R&K	R45/R50/R65 & K
11-2-915		Piston Ring Clamp	R	R90 / R100
11-2-920		Drift, Gudgeon Pin	All	Self explanatory
11-2-925		Piston Ring Clamp	K	K75 / K100
11-2-930		Drift, Gudgeon Pin	All K (brick) but not 16 valve	11.7 mm driving end. Not for 16 valve models (these need to be 10.7mm)
11-3-600		Sleeve	R&K	To press out the (Duplex only??) camshaft sprocket. (when camshaft has been removed from the engine)
11-3-700		Camshaft Locking Tool	K	For 16 valve Engine & K1200
11-4-650		Oil filter key	K11, K12, R11	Self explanatory
11-5-500		Clamp, remove / Fit Tensioner	K	For timing chain tensioner
11-5-602	83300401558	Drift for 5mm Valve Stem seal	R850R/GS/R1100R/GS/ R1100RT/RS, R12xx, K1200 (Brick), K1200/K1300 (Slant).	To drive in valve stem seal.
11-5-640	83300401562	Flywheel lock tool	R11/K	Locks flywheel to enable clutch bolts to be removed/replaced.
11-5-640	83300401562	Flywheel lock tool	R8xx/R11xx/R12xx/K1100/K1200	Locks flywheel to enable clutch bolts to be removed/replaced.
11-5-650	83300401563	Drift for rotary breather radial shaft seal	R850R/GS/R1100R/GS/ R1100RT/RS	For rotary breather radial shaft seal
<b>11-5-660</b> (11-5-661) (11-5-662)	<b>83300401564</b>	<b>KOP Drift and Sliding sleeve set for Radial Shaft Crankshaft Rear Main Seal Drift.</b> Sliding sleeve	R1100	For R1100 Cable Operated Clutch. Also used for the crank outer seal seal on the R1100S and R1150. (seal part number 11111341087) See tool 11-5-700 for other oil heads.
11-5-675	83300401572	Drift for 5mm Valve Guide Insertion	R1200	Part of kit 11-5-670
11-5-676	83300401573	Drift for 5mm Valve Guide Removal	R1200	Part of kit 11-5-670
<b>11-5-680</b> (11-5-681) (11-5-682)	83300401574	<b>KOP Drift and Sliding sleeve set.</b> Drift Sliding Sleeve	R850R/GS/R1100R/GS/ R1100RT/RS	Installing radial shaft sealing ring for crankshaft, front.
11-5-691	83300401578	Reaction Support	R1200	Removing and installing valves (part of kit 11-5-690)
11-5-692	83300401579	Spindle with handle	R1200	Compressing valve springs (part of kit 11-5-690)

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11-5-695	83300401582	Pressure plate	R1200	Adapter for valve spring retainer (part of kit 11-5-690)
11-5-696	83300401583	ScREW	R1200	Fastening retainer 11-5-691 to slider 11-5-697 (part of kit 11-5-690)
11-5-697	83300401584	Slider	R1200	Adapting to valve angle (part of kit 11-5-690)
<b>11-5-700</b> (11-5-701) (11-5-702) (11-5-703) (11-5-704)	<b>83300401585</b> 83300401586 83300401587 83300401588 83300401589	<b>KOP Set, drift with sliding sleeve.</b> Crankshaft Rear Main Seal Drift Sliding Seal Sleeve Seal Sleeve Ring (Only for R1200 models)	R1100S, R1150, R1200	<b>For Post December 1997 R1100 and all R1100S and R1150</b> for the crank rear inner seal (part number 11111341135). Hydraulic Operated Clutch models. For cable models pre December 1997 see 11-5-660. 11-5-704 required for R1200.
<b>11-5-710</b> (11-5-711) (11-5-712) (11-5-713)	<b>83300401590</b> 83300401591 83300401592 83300401593	Seal Installation Kit Ring Thrust Piece Sliding Sleeve	R1200	Installing shaft sealing ring, crankshaft, front.
<b>11-5-740</b> (11-5-741) (11-5-742)	<b>83300432224</b> 83300432225 83300432226	<b>Drift set comprising:</b> Drift Sliding sleeve	R12xx	Installing shaft sealing ring, balancing shaft
11-6-503	83300401598	Thrust piece	R1200	Thrust piece used when removing bearing of crown wheel from housing cover
11-6-570		Crank Holder	F650	TDC Tool
<b>11-6-720</b> (11-6-721) (11-6-722) (11-6-723) (11-6-724)	83300401624	Drift Set Water/Oil Pump Hook for removing old seal Sliding sleeve for pump shaft Press in tool and guide sleeve for shaft sealing ring. Press in tool for slip ring seal.	K (Brick)	Removing/installing sealing rings, coolant pump  Do not use grease.
11-6-724		Press in tool for slip ring seal (spare)	K (Brick)	Do not use grease.
<b>11-6-730</b> (11-6-731)  (11-6-732)  (11-6-733)	<b>83300401629</b>	<b>Drift set</b> Support ring for layshaft needle roller bearing  Drift to insert Aux (Lay) shaft front bearing seal in crankcase  Drift to insert Aux (Lay) shaft Needle Bearing in crankcase.	K1200/R1200 K1200, K1200/K1300 (K4x Slant) K1200/R1200	Removing needle roller bearings, countershaft, crankcase 11-6-732 also for R1200 - Installation of shaft sealing ring, secondary shaft rotary breather / removal of swinging-arm bearing Installation of needle bearing, secondary shaft
11-6-732	Spare	Drift to insert Aux (Lay) shaft front bearing seal in crankcase	K1200	
11-6-740		Chain Tensioner Locking pin.	K1200	Locks Tensioner when removing timing cover
<b>11-6-770</b> (11-6-771) (11-6-772)  (11-6-773)	<b>83300401636</b> 83300401637  83300401639	<b>3 Piece Tool Set Consisting of:</b>  Slip Over Sleeve Assembly Sleeve  Drift	K75, K75C, K75RT, K100, K100RS, K100RT, K1100RS, K1100LT, K1200RS, K1200LT	<b>Installing radial shaft sealing ring, timing gear cover.</b> Installing radial shaft sealing ring, timing gear cover Preshaping radial shaft sealing ring, timing gear cover. Drift
11-7-601	83300401665	Handle for drifts with 15mm shank	All	Self explanatory
12-3-500		Plug Spanner	K (Brick)	Self explanatory
12-3-551	83300401699	Poly V Belt adjusting tool	R1150	For single spark models only, for twin spark see 12-3-570
12-3-570 (12-3-571) (12-3-572)	83300402386	Tensioner Kit (2 parts) Tensioner Base for Elast Belt adjustment Tensioner Top for Elast Belt adjustment	R1150	Used to push pulleys apart to the correct distance for the ELAST belt tension. Used on later 1150 where the Poly V belt was superceded by the Elast. Only on Dual spark models. For single spark see 12-3-551.
12-3-591		Alternator Belt Installation Tool	R1200	For non adjustable belts only.
12-3-600		Alternator Rotor removal bolt	R	Air head boxers
12-3-650		Static ignition Timer	R	Despatched with 9v Battery disconnected
12-3-651		Adapter for use with 12-3-650	K	Has connector for K series.
12-3-652		Adapter for use with 12-3-650	R Oil head boxers	Has connector for Oil head boxers.
12-4-600	83300401707	Counter holder - Transmission gear removal and Coupling hose removal holding tool.	K1100 K1200 R1200	Removing and installing alternator drive flange coupling, and on K1100 for holding crankshaft split gear.
12-4-611	83300401708	Socket wrench insert, w/f 14, slotted	R1200	Removing and installing temperature sensor, cylinder head
12-5-510		Puller Magneto Rotor	F650	
13-0-700		LE Jetronic carb Synchroniser (Morgan vacuum gauges, 4 column)	R, K	Balancing carbs. Can also be used for throttle bodies on fuel injected bikes.
13-0-702		Adapter for use with 13-0-700	R	
13-0-703		Adapter for use with 13-0-700	R	
13-1-500		Pliers, hose clips	K & R11xx, K1200/K1300 (Slant)	For fuel line clamps. Not for R1200
13-1-512	83300401727	Pliers	R1200, K1200/K1300 (K4x Slant)	Oetiker clips e.g. air intakes, intake pipe
13-1-513	83300406418	Spare Jaws for Pliers 13-1-512	R1200, K1200/K1300 (K4x Slant)	For Oetiker Pliers used on R1200 air intake pipes etc.
13-5-251	83300493338	Pull rod	R1200, K1200/K1300 (K4x Slant)	Removing bearing / shaft sealing ring. Use with impact weight 13-5-253, and thrust blocks 33-2-520.
13-5-253	83300493340	impact weight	R1200, K1200/K1300 (K4x Slant)	Removing bearing / shaft sealing ring

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16-1-021	83300493639	Fuel Pump unit pin wrench	R1200, K1200/K1300 (K4x Slant)	Removing and installing fuel-pump unit
16-1-500		Fuel Pump pressure Gauge	K & R11xx	Self explanatory
16-1-650		Starter set (to run without petrol tank)	K75	Long fuel leads to allow tank to be lifted clear of bike.
17-0-003		Adapter for 17-1-500	K75	
17-0-004		Adapter for 17-1-500	K	
17-0-500		Cooling System Leak Tester	K	Self explanatory
18-0-600		Exhaust Nut Wrench	R	For airhead boxers only
21-2-600		Clutch clamp bolts	R	Allows controlled release of pressure from clutch assembly.
21-2-650	83300401763	Centring Arbour, clutch	R series 1970 - 1980	Airhead boxers only
21-2-670/671		Centring Arbour, clutch	K	670 is the KOP containing 671, 672 & 673
21-2-670/672		Centring Jig for use with 21-2-670 (670 is a KOP)	K	Fits across the crancase to allow alignment of clutch plate.
21-2-670/673	83300401768	Centring Arbour, clutch	K1200/R1150/R1100S/R1200	This is not suitable for the R1100. or R1200C see 21-3-680
21-3-680	83300401771	Centring Arbour, clutch	R1100, R850R, R1200C	Diameter 18.2 mm. Not for R1100S
21-4-600	83300435799	Locating Ring to hold clutch cage and driver.	F650	Holds cage while unscrewing hex nut.
21-4-651	83300401778	Driver Lock	K1200, K1300 K4x (Slant)	Removing/installing nut, clutch hub
21-4-652	83302152908	Assembly Tool	K1200, K1300 K4x (Slant)	Turning tensioning gear for installation of clutch ca
23-1-620		Forcer gearbox cover	R to 1981	Fits into the clutch pivot pin ears, to ease off the gearbox cover.
23-1-650		Drift for g/box front seal	R	Post 1981 airhead models
<b>23-1-660</b> (23-1-661) (23-1-662)	83300401792	<b>Gearbox holder, K2x / K4x</b> Holder Dowel	R1200, K1200/K1300 (K4x - Slant)	To enable gearbox repairs with gearbox removed
23-1-700		Gearbox output flange remove / fit	R	This is the old version see 710 for later version.
23-1-705		Spare bolts for 23-1-700 / 710	R	
23-1-710		Gearbox output flange remove / fit	R	Nut is 200Nm. Possible damage to gearbox flange if this tool is not used!
23-1-750		Insertor Gearbox cover seal	R /6 on	Self explanatory
23-1-760		Drift for G/Box Output shaft seal	K	Self explanatory
23-1-770		Drift for G/Box Input shaft seal	K	Self explanatory
23-1-780		Drift Gearbox selector shaft seal	K, R1200, K1200/K1300 (K4x Slant)	K series Gearbox selector shaft seal & to remove R1200 paralever pivot bearing (left in direction of travel).
23-1-790		Drift Selector drum seal	K	
23-1-800		Slipover Sleeve, clutch pushrod	K	For installing Clutch rod
23-1-820		Gearbox Guide Pins (set of 2)	K1100, K12's/R850 1100/1150	Supports gearbox during removal & refitting. This is to prevent the box resting unsupported on the input shaft.
23-2-650		Assembly bushes	R	Consists of 651, 652, 653, 654, 655 Need to check if all available
<b>23-2-650</b> (23-2-651) (23-2-652) (23-2-653) (23-2-654) (23-2-655)	83300401816  83300401819	<b>Set of Assembly Bushings</b>	R1200	
23-2-655		Exchange Sleeve for 23-2-650	R 1981 on	
23-2-750		Adjuster	R50/5 to R75/5	To locate the output shaft when adjusting the selector fork (4 speed models)
23-3-650	83300401825	Measuring Plate for Gearbox Shims	R /6 on	No Depth Gauge available. New plate bought 20/05/2010 This code for 5 speed gearboxes only.
23-3-660		Measuring Plate for axial play	K	
23-3-670		Adapter for use with 00-2-570	K, R1100	Used to measure friction of input shaft. Use with 00-2-570
23-4-550	83300401830	Drift	F650 R1200	F650 - Fit Gearbox main shaft sealing ring. Use with sliding sleeve 23-4-540. R1200 - Installing shaft sealing ring, gearbox output shaft / selector shaft
23-4-600	83300401835	Gearbox shim measuring plate	R850, R1100, R1100RS, R1100RT R1100GS	Used to enable accurate measurement when shimming the gearbox shafts. Fits over the input, output and idler shafts. Does NOT fit the 6 speed hydraulic clutch models.
23-4-612		Sliding sleeve for G/Box selector shaft.	R850C/R/GS/R1100R/GS/R1100RT/RS, R1200, K1200	Use with 23-4-741
<b>23-4-620</b> (23-4-621) (23-4-622)	83300401839	<b>Drift &amp; Sliding sleeve set.</b> Drift Sliding sleeve	R850R/GS/R1100R/GS/R1100RT/RS	For installing G/Box O/P shaft seal
<b>23-4-630</b> (23-4-631) (23-4-632)	83300401842	<b>Drift &amp; Sliding Sleeve Set</b> Drift Sliding Sleeve	R850R/GS/R1100R/GS/R1100RT/RS	To remove & install G/Box I/P shaft seal at housing cover end.

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23-4-640	83300401845	Drift	R850R/GS/R1100R/GS/ R1100RT/RS	To insert deep grooved ball bearing on G/Box selector drum.
<b>23-4-650</b> (23-4-651) (23-4-652) (23-4-653)	83300401846	<b>Drift and Sliding Sleeve Set</b> Drift Guide sleeve	R850R/GS/R1100R/GS/ R1100RT/RS	For Removing and installing input shaft sealing ring at housing end.
23-4-660	83300401850	Drift to install roller bearing for idler shaft in G/Box	R850R/GS/R1100R/GS/ R1100RT/RS, R12xx	Installing bearings, intermediate shaft / bearings, balancing shaft, timing case cover
23-4-670		Drift to install taper roller bearing onto G/Box I/P. Also taper roller bearing outer (for crown wheel into rear drive R11xx).	R850R/GS/R1100R/GS/ R1100RT/RS, R1150	Also to insert outer bearing in crown wheel on R1150, K1100, K1200
<b>23-4-710</b> (23-4-711) (23-4-712)	83300401858 83300401859 83300401860	<b>Drift set with sliding sleeve</b> Drift Assembly sleeve for G/Box I/P shaft - Front cover	R850C - 1200 K1200, R1100S, R1200	For installing the G/Box input shaft seal (at the input end).
23-4-713	83300444399	Drift (part of set 23-4-710)	R1200	Tapping in input shaft sealing ring for gearbox housing
23-4-722		Assembly Seal guide Input shaft (Output side) - G/Box	R850C - 1200 K1200	Use with drift 23-4-723 which superceeds 23-4-721
23-4-723		Drift for Input shaft (Output side) - G/Box	R850C - 1200 K1200	Use with guide 23-4-722
<b>23-4-730</b> (23-4-731) (23-4-732) (23-4-733)	83300401864 83300401865 83300401866 83300444400	<b>Set, drift with sliding sleeve.</b> Drift for 23-4-732 Sliding sleeve Sliding Sleeve	K1200, R1100S, R1200	G/Box O/P shaft sealing ring assembly. Consist of drift 23-4-731, sliding sleeve 732, sliding sleeve 733
23-4-733	83300444400	sliding sleeve	R1200	Part of set 23-4-730
23-4-740		Drift for Assembly Taper seal guide - Selector shaft sealing ring.	R850C - 1200 K1200	Use with 23-4-612
23-4-750		Drift for installing shaft sealing ring in selector drum	R850C - 1200 K1200	
<b>23-4-770</b> (23-4-771)	83300401878	<b>Drift set with sliding sleeve.</b> Drift for assembly seal guide.	R1200, K1200	Installing shaft sealing ring, reverser actuator / selector drum / selector star. Consists of 23-4-771, 772.
<b>23-4-770</b> (23-4-771) (23-4-772)	83300401877 83300401878 83300401879	<b>Drift set with sliding sleeve</b> Drift Slip over sleeve	K1200/R1200, K1200/K1300 (K4x Slant)	
23-4-780		Press Off Tool - Front cover.	K1200	Separates front cover from transmission housing. Applies pressure to intermediate shaft.
<b>23-4-810</b> (23-4-811) (23-4-812) (23-4-813) (23-4-814) (23-4-815) (23-4-816)	83300401885	<b>Set of measuring adapter discs.</b> 23-4-811 Adapter disc input shaft 23-4-812 Measuring disc, Intermediate shaft. 23-4-813 Measuring disc output shaft. 23-4-814 Adapter disc for selector drum. 23-4-815 Measuring disc, selector drum. 23-4-816 Measuring disc, output shaft.	R1200	Set for measuring fully assembled length of gearbox shafts
<b>23-4-840</b> 23-4-841 23-4-842	83300444415 83300444414 83300444416	<b>Drift Set</b> Drift Sliding sleeve	R1200	For tapping in input shaft sealing ring for gearbox cover. Consists of: (23 4 841 Drift), (23 4 842 Sliding sleeve)
23-4-851	83300444438	Drift	R1200	Installing shaft sealing ring, selector shaft
26-1-600		Retainer	R to 1985	Toothed plate holder. Used to lock drive shaft while removing nut. (pre-torsion spring driveshaft)
26-1-650		Extractor	R to 1985	To pull coupling bell housing off the drive shaft.
26-1-655		Extractor shells for use with 26-1-650	R60/7 to R100RS (1978)	To pull coupling bell housing off the drive shaft.
26-1-660		Puller rear drive bearing plate.	K	To lock swinging arm when removing/installing the 4th retaining bolt.
26-1-700		Assembly Jig	R 1979 on	This is to compress the driveshaft spring (torsion spring version). Doesn't fit GS models.
27-1-541	83300417779	Toothed belt tension measuring gauge	F800	Accurately measures tension of the drive belt.
30DB103		Vacuum Gauges (2 valve twins)	R	Balancing carbs. Not suitable for use on throttle bodies. Useful for carbs with no vacuum take off point.
31-3-620		Drift - Sealing ring into fork leg	K (Brick)	This for the oil seal under the snap ring, and not for the external dust seal.
31-3-650		Impact bush	R100R, K75 F650, K1100, R12xx	This is for the dust seal, not the oil seal that is beneath the snap ring.
31-3-671	83300401922	Thrust Piece	R12xx	For Spindle support, steering tube.
<b>31-3-680</b> (31-3-681) (31-3-682) (31-3-683)	83300401925 83300401926 83300401927	<b>Set for bearing Removal</b> Spindle with thrust nut Bearing Removal Support Washer	R1200	Removing and installing needle roller bearings and ball bearings leading link / needle roller bearings, swinging arm
3142DB300		Bearing Extractor / Slide Hammer	All	Slide hammer which uses various expanding cones for differing bearing sizes. Especially good for extracting Steering Head & Swing Arm bearing.
31-4-600		Clamp Jaws, forks	R&K	Wooden clamps to hold forks in a vice.
31-4-650		Drift, fork seals	R	Self explanatory
31-4-660		Drift, fork seals	K	Self explanatory
31-4-700		Assembly Sleeve	R /5 to /7	To compress the front fork piston rings
31-4-720		Assembly Sleeve	R 1981 on	To compress the front fork piston rings
31-4-730		Assembly Sleeve	K	To compress the front fork piston rings

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Part No.	BMW Part No.	Description	To Fit	Notes/Function
31-4-740		Assembly Sleeve	R80	To compress the front fork piston rings
31-4-750		Gauge Spanner for use with 00-2-570	R	36mm Hex wrench steering torque. Used with friction gauge.
31-4-760		Gauge Spanner for use with 00-2-570	K	30mm Hex wrench steering torque. Used with friction gauge.
31-4-800		Cap Ring	All	Protects paintwork when using a two legged puller to remove head bearings. (not needed if using impact hammer 3142DB300)
31-4-850		Hex Ring Spanner for Top Yoke Nut	R to 1985	This is a thin ring fitted with a 1/2" square drive and is 36mm across the flats. Not suitable for R65/R80 post 10/1985 which need a 41mm spanner (see EBM111)
31-4-860		Open ended spanner for upper fork bridge	K	This is a thin open ended spanner fitted with a 1/2" square drive and is 30mm across the flats.
31-4-890		Thrust Ring - Steering bearing adjustment	K1100	
31-5-601		Cut away 21mm socket.	R1100/1150, K1200/K1300 (K4x Slant)	Removing/installing ball joint, leading link. Used with 31-5-603
31-5-603		7mm Allen key.	R1100/1150, K1200/K1300 (K4x Slant)	Removing/installing ball joint, leading link. Used with 31-5-601
31-5-610 (31-5-611) (31-5-612) (31-5-613) (31-5-614)		Drift set for fork seal. Threaded bush Expander sleeve Reducing ring adapter for fork seal. Sleeve	R100R, R100RS, K75 (from 1992), R850R/C/GS/R1100R/G S/R1100RT/RS, R1200C, K1200LT	Kit consisting of 31-5-611, 612, 613, 614. This is used to install fork seals in associated models.
31-5-613		Spare Reducing ring adapter for fork seal kit 31-5-610.		Spare part for kit 31-5-610
31-5-630 (31-5-631) (31-5-632)		Kit comprising 31-5-631 & 632. 46mm deep socket for Telelever ball joint nut. Collar for 31-5-631	R1100/1150, R1200	To remove Telelever ball joint from upper and lower fork bridges.
31-5-650 (31-5-651) (31-5-652) (31-5-653) (31-5-654)	83300401981 83300401982 83300401983 83300401984 TBA	<b>Drift set with Bushings Consists of:</b> Drift Press Out Bushing Press In Bushing TBA	R1200	Removing and installing angular-contact ball bearing, fork bridge / threaded stud.
31-5-660 (31-5-661) (31-5-662)	83300401985 83300401986 83300401987	<b>Drift set with Bushings</b> Drift Bushings	R850R/GS/R1100R/GS/ R1100RT/RS K1200 R1200	Removing and installing pot-type joint, fork bridge
31-5-670 (31-5-672) (31-5-673)	83300401988 83300401990	<b>Fork Bridge Retaining Fixture</b> Bush Bush	R1100S	Used to hold the upper and lower fork bridge in a vice to enable the ball joint to be undone (230Nm). Use with 31-5-630
31-5-720 (31-5-721) (31-5-722) (31-5-723)	83300402022 83300402023 83300402024 83300402025	<b>Kit to remove upper and lower ball joints on Duolever forks. Consists of:</b> <b>Adapter spindle</b> <b>50mm deep socket for lower ball joint.</b> <b>55mm deep socket for upper ball joint.</b>	K1200, K1300 GT, R, S, Slant Engine	Adapter for wheel carrier (duolever front fork) to enable forks to be held in a vice. Needed when removing ball joints with 50mm & 55mm Sockets.
31-6-521		Steering Pin Spanner	F650 GS	For adjusting head bearing on F650
32-1-511	83300402038	Release tool	R1200, K1200/K1300 (K4x Slant)	Releasing cover of brake or clutch reservoir in handlebar fitting
33-1-307		Bearing inserter - Final drive, and thrust block for o/p shaft transmission cover.	R11xx, K1100, K1200	
33-1-500		Support for rear wheel drive	All	Not K1100
33-1-570/571	83300402054	Drift	R1200, K1200/K1300 (K4x Slant)	Installing shaft sealing ring, bearing of judder damper / bearing, crown wheel housing
33-1-650		Retainer for drive pinion	R to /7	To hold the drive pinion while undoing nut.
33-1-700	83300402060	Pin wrench	R & K Series	To undo threaded ring in rear drive housing. One requires a 3/4" male square drive. For R1200 onwards see 33-1-710/11
33-1-710/711	83300402061	Pin wrench	R1200, K1200/K1300 (K4x Slant)	To undo threaded ring in rear drive housing.
33-1-720 (33-1-721) (33-1-722)		Special 36mm socket - Final Drive 3/4 to 1/2 inch adapter	R,K, K1200/K1300 (K4x Slant)	Deep walled 36mm socket to remove nut on bevel gear (200Nm)
33-1-750		Drift	R	To install ring seal in the threaded ring in rear drive of airhead boxers..
33-1-760		Drift - For sealing ring in to threaded ring on final drive	K100, R11xx	For inserting sealing ring in to threaded ring on final drive
33-1-770	83300402067	Drift to insert seal in threaded ring in rear bevel drive	R1200, K1200/K1300 (K4x Slant)	For inserting sealing ring in to threaded ring on final drive
33-1-800		Assembly Sleeve	R	Protects shaft ring seal in rear drive housing.
33-1-830	83300402069	3 Jaw Puller (200mm) (Kukko 45-3). 1 x BMW modified (and broken) 1 x standard Kukko	K100, K1100, K1200 & R11xx, R1200, K1200/K1300 (K4x Slant)	K1100 K1200 - For removing grooved bearing in final drive (with 33-1-307). Also for removing wheel axle from housing cover on R1200
33-1-850		Drift	R	To install ring seal in rear drive housing. Not for GS see 33-1-860
33-1-860		Drift	R80, R100R, K100, R11xx, K1100, K1200	Drift to install seal in rear drive housing cover.

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Part No.	BMW Part No.	Description	To Fit	Notes/Function
33-1-880		Drift	R, R11xx	To install shaft ring seal in rear drive housing. Also for installing outer race in rear drive.(R11xx)
<b>33-1-890</b> 33-1-891 33-1-892 33-1-893	83300402076 83300402077 83300402078 83300435083	<b>Drift Set</b> Drift Drift Drift	R1200, K1200/K1300 (K4x Slant)	891-Install shaft sealing ring, cover for final drive. 892-Install shaft sealing ring, housing for final drive. 893-Install primary seal <b>ALUMINIUM</b> wheel flange, final drive
<b>33-2-500</b> (33-2-501) (33-2-502) (33-2-503) (33-2-504) (33-2-505) (33-2-506) (33-2-507) (33-2-508)	83300402079 83300402080 83300402081 83300402082 83300402083 83300402084 83300402085 83300402086 83300402087	<b>Set of Final drive Adapter /Tools</b> Holder Flange Locking device Spindle with thrust nut (270mm) Support Washer Washer Ring	R1200, K1200/K1300 (K4x Slant)	501- Retaining fixture for final drive. 502- Remove/install <b>aluminium</b> wheel flange. 503- Threaded fastener, nut for bevel-pinion shaft. 504- Installing wheel flange/wheel axle in cover. 505- Installing wheel axle in cover 506- Remove wheel flange/wheel axle from cover. 507- Install wheel axle/Remove bearing from cover. 508- Protector for removing wheel axle with three-claw puller <b>502 is for alloy wheel flange only. See 33-2-512 &amp; 513 for the puller for steel wheel flange</b>
<b>33-2-512</b> <b>33-2-513</b>	83302152940 83302152913	<b>Puller</b> <b>Counter holder</b>	R1200	For use with Steel Wheel Flange only. Also need spacer 33-2-506.
<b>33-2-520</b> (33-2-521) (33-2-522) (33-2-523) (33-2-524)	83300402088 83300402089 83300402090 83307713029	<b>Set of Thrust Blocks</b> Thrust Piece 59mm Thrust Piece 24mm Thrust Piece 22mm	R1200, K1200/K1300 (K4x Slant)	521- Remove roller bearing housing, for final drive. 522- Remove needle bearing housing, for final drive 523- . 524- Remove needle bearing, housing for final drive. Use in combination with 13-5-251 and 13-5-253)
33-2-531	83300402092	Spindle with thrust nut (125mm long)	R1200, K1200/K1300 (K4x Slant)	Removing and installing split rubber mount, final drive / reaction link. Use with 33-2-532
33-2-532	83300402093	Support	R1200, K1200/K1300 (K4x Slant)	Removing split rubber mount, final drive, mount for spring strut, swinging arm, paralever link.Use with 33-2-531
33-2-533	83300402094	Bushing	R1200, K1200/K1300 (K4x Slant)	Conical bushing for pretensioning the split rubber mount for installation
33-2-534	83300402095	Washer	R1200, K1200/K1300 (K4x Slant)	Installing split rubber mount A = reaction link / B = final drive. Removing needle roller bearing, housing for final drive.
33-2-535	83300402096	Washer	R1200, K1200/K1300 (K4x Slant)	Removing split rubber mount, final drive / reaction link
33-2-541	83300402098	Threaded adapter, M10 / M24	R1200, K1200/K1300 (K4x Slant)	Removing bevel-pinion shaft
33-2-551	83300402099	Sliding Sleeve	R1200, K1200/K1300 (K4x Slant)	Shaft sealing ring, threaded ring for bevel-pinion shaft
<b>33-2-590</b> (33-2-591)	83300411160	<b>Counter-holder + Handle</b>	R1200, K1200/K1300 (K4x Slant)	Locking bevel-pinion shaft, final drive, for adjusting backlash
<b>33-2-600</b> (33-2-601) (33-2-602) (33-2-603) (33-2-604)	83300402100	Measuring Set Measuring ring Dial Gauge Holder Large locating block Stop Arm with knurled locating bolt	K1200	To measure backlash in bevel housing.
33-2-604		Gauge arm for use with 33-2-620	K	Stop for use when measuring rear drive tooth backlash
33-2-610 (33-2-612)	83300402107	Measuring arm, 53.5mm	R80/R100,R1200, K1200/K1300 (K4x Slant)	Measuring backlash, final drive
33-2-620		6 pieces	R	To lock pinion shaft when checking/adjusting backlash in rear bevel housing.
33-2-640	83300402112	Drift	R1200	Removing brake key bushing from housing cover
<b>33-2-650</b> (33-2-651) (33-2-652)		<b>Drif KOP consisting:</b> Drift Spacer ring	R1200, K1200/K1300 (K4x Slant)	Inserting Pinion needle roller bearing in rear bevel drive.
33-5-600		Spring compressor for suspension unit	All	Self explanatory
33-5-700	83300402129	Drift	R1150, R1200, K1200/K1300 (K4x Slant)	Installing taper roller bearings in rear wheel and swinging arm
<b>33-6-610</b> (33-6-611) (33-6-612) (33-6-613) (33-6-614)		<b>Set comprising:</b> Drift. Spacer. Spacer. Spacer	F650 & ST	Drift and spacer set to remove/refit needle races swinging fork and Idler lever.
33-6-620		Drift	F650 & ST	Remove/refit needle races in rear swinging fork and Idler lever.
<b>33-6-630</b> (33-6-631) (33-6-632)		<b>Set comprising:</b> Drift Spacer.	F650 & ST	Remove/refit needle races swinging fork and Idler lever.

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Part No.	BMW Part No.	Description	To Fit	Notes/Function
33-6-640 (33-6-641) (33-6-642)		Set 30mm Cut away Socket wrench M12 Allen key	R11xx, K12, R12, K1200/K1300 (K4x Slant)	To remove threaded fastener, floating bearing stud / threaded ring swinging-arm bearing and for pivot bearing pre-load setting.
33-6-650 (33-6-651) (33-6-652)	83300402145 83300402146 83300402147	<b>Set comprising:</b> <b>Drift</b> <b>Spacer Sleeve</b>	R1200	Installing needle roller bearing in rear swinging arm.
34-0-600		Gauge	R /6 /7	
34-1-580 (34-1-581) (34-1-582) (34-1-583) (34-1-584)	83300402174	<b>Brake bleeding KOP</b> Brake fluid reservoir bottle Threaded adapter (connects reservoir to tube) Adapter tube (clear) Metal adapter	R1150, K1200 (slant)	
36-3-613		Balancing Flange	K	Adaptor for rear wheel balancing (4 hole)
36-3-614		Balancing axle	K	
36-3-650 (33-6-651) (33-6-652)		<b>Pin Wrench &amp; Bushing KOP</b> Bushings Peg Spanner	R50/5 to R100S (1977)	Bushing for or use with 17mm axle shaft. For sacking and tightening front wheel hub caps.
36-3-660		Drift for fitting wheel bearings	K1100	To insert left hand side wheel bearing (i.e. the small one - 25x47x12). 4 valve models.
36-3-670 (33-6-671) (33-6-672)		Drift for fitting wheel bearings	K1100, R1200	To insert right hand side wheel bearing (i.e. the large one - 25x47x16)
36-3-700		Drift	R, R11xx, GS11xx, K1200/K1300 (K4x Slant)	To remove wheel bearings (spoked wheels), and pressing needle roller in rear drive.
36-3-800		Spoke Nipple wrench	R	Self explanatory
36-3-820		Spoke Gauge	R50/5 to R75/5, R60/6	For 18 & 19 inch road wheels with drum brakes front and rear. (R60/6 front only) Not Available
36-3-880		Tongs to fit balance weights	R & K (Brick) Models	For use with cast wheels.
36-5-500	83300402252	Drift for front wheel shaft sealing ring	R850R/GS/R1100R/GS/ R1100RT/RS	For front wheel shaft sealing ring
36-5-511	83300402254	Arbour for front wheel wide bearing	R850R/GS/R1100R/GS/ R1100RT/RS, R1200	For front wheel wide bearing
36-5-512		Drift	R850R/GS/R1100R/GS/ R1100RT/RS, R1150 K1200LT/F650, K1200/K1300 (K4x Slant)	For front wheel narrow bearing. Also for bearing in the Chain wheel carrier on F650
36-5-530	83300402257	Drift	R850R/GS/R1100R/GS/ R1100RT/RS/R1150	To remove front wheel bearing and spacing bushing
36-5-551	83300444294	Spindle, 400mm	R1200, K1200/K1300 (K4x Slant)	Installing Front wheel bearing / steering-head bearing
36-5-552	83300444293	Spindle, 200mm	R1200, K1200/K1300 (K4x Slant)	Installing wheel bearing / steering-head bearing. (Part of 36-5-550)
36-5-553	83300444299	Set of 18 Discs with threads. (Dia - 17, 20, 22, 25, 28, 30, 32, 35, 37, 40, 42, 45, 47, 50, 52, 55, 57, 62)	R1200, K1200/K1300 (K4x Slant)	Installing wheel bearing / steering-head bearing
36-5-554	83300444300	Set of 13 Discs without thread. (Dia - 28, 32, 35, 37, 50, 42, 45, 47, 50, 55, 57, 62)	R1200, K1200/K1300 (K4x Slant)	Installing wheel bearing / steering-head bearing
36-6-600	83300402261	Drift	R1200, K1200/K1300 (K4x Slant)	Installing wheel bearing / swinging-arm pivot bearing
36-6-610	83300402262	Support Ring	R1200, K1200/K1300 (K4x Slant)	Removing wheel bearing / swinging-arm pivot bearing (in combination with 00 8 570/00 8 571)
46-5-721	83300402308	Hook tool	R1200	To pull centre stand spring on.
46-5-606		Gauge Bolts	K	Frame gauge bolts. Use with 46-5-600
46-5-691		Threaded Pin (pair)	R1200	Used to hold the front section of frame, while removing/installing the rear section
46-5-700		Lever to remove mirror from plate	K	
61-1-132	83300495385	Electrical socket pin Removal	R1200	For removing pins from electrical sockets on wiring loom.
EBM10		10mm Allen Key Socket	All	General
EBM101		10mm Helicoil kit 25 off 1.5mm inserts (standard) 10mm Drill Insertion Tool Snap off tool	R Series	This is a general 10mm helicoil kit, but can be used with EBM102 inserts to repair threads in Airhead boxer crankcase barrel stud holes.
EBM102		4 x BMW special 1.5mm inserts (longer than standard).	R Series	BMW inserts to repair threads in Airhead crankcase barrel stud holes.
EBM103		14mm Spark Plug Helicoil Kit	All	For Repairing 14mm spark plug hole thread.
EBM104		MITYVAC Brake Bleeding Kit	All	For vacuum bleeding of hydraulic brakes.
EBM107		Boxer fork damper disc removal	R Series 1970 1989	To remove the damper disc at the base of the airhead boxer forks.
EBM108		GS911 Diagnostic Tool	Phone for full details	For reading ECU information, Read & Clear Fault Codes, Real Time Values, Service Functionality and Service Reminder resting. <b>This tool is NOT suitable for use on motorcycles with mechanical fuel-injection (LE Jetronic) - these are K100, K100LT, K100RS, K100RT, K75, K75C, K75RT, K75S</b>



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Part No.	BMW Part No.	Description	To Fit	Notes/Function
EBM109		GS911 3 Pin Adapter	R1100GS, R1100R, R1100RS, R1100RT, R850GS, R850R (with 3-pin port), R850RT (with 3-pin port)	This adapter is required to connect your GS-911 interface to the older models that have a 3-pin Diagnostic connector. It is intended for models that have the MA2.2 Engine control unit and ABS-II (if equipped with ABS).
EBM110		M24 x 1.25mm Second Tap		For paralever Pivot Pin female threads in Swinging arm.
EBM111		41mm Combination Spanner	R65, R80 Mono	For the top fork nuts on models from 10/1985. Needs to be used with EBM112 (17mm Allen key).
EBM112		M17 Allen Key	General	Standard Allen key, but essential for use with EBM111 as it holds the spring retainer to allow the top nut to be undone.
MAN101		BMW Manual Twins (Haynes)	R Series 1970 - 1988	Paper copy
MAN102		R Series Clymer Workshop Manual (M502)	R Series 1970 - 1989	Paper copy
MAN103		BMW Twins 1955 - 1985 Restoration Mick Walker	R Series 1955 - 1985	Paper copy
MAN104		R80GS BMW Full Repair manual	R Series Year ??	PDF (can be put on CD)
MAN105		C1 & C1 200 Full Repair for year 2001	C Series Year 2001	PDF (can be put on CD)
MAN106		F650, F650ST BMW Repair Manual	F650, F650ST Year 2001	Paper copy official BMW
MAN107		F650CS Full BMW Repair manual for year 2001	F650CS Year 2001	PDF (can be put on CD)
MAN108		F650GS Full BMW Repair manual for year 2001 - 2003	F650GS Year 2001 - 2003	PDF (can be put on CD)
MAN109	01790027923	F650GS F650 Dakar Full BMW Repair CD	F650GS Year 2000	Dated 10/2000 DVD No hire charge due to copyright.
MAN110		F800 & F650 twins Haynes Workshop Manual	F800, F650 2006 - 2010	Paper Copy
MAN111		F800S & F800ST Full BMW Repair DVD 1st edition 2006	F800S, F800ST	DVD 1st edition dated 02/2006 No hire charge due to copyright.