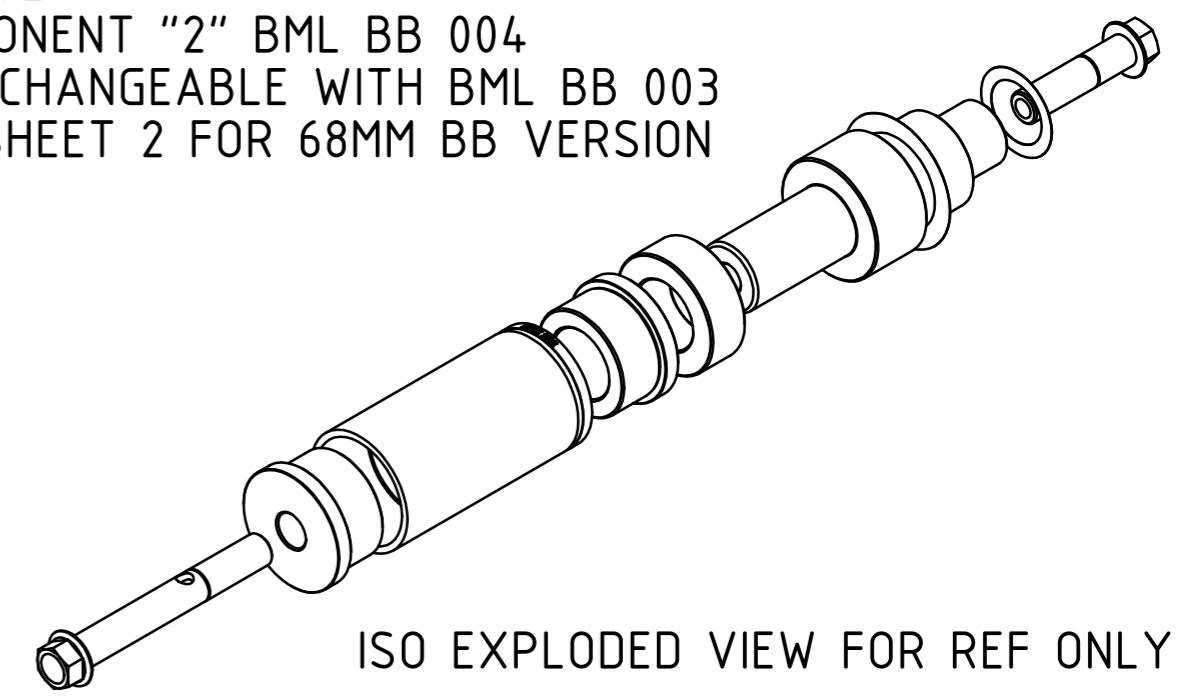
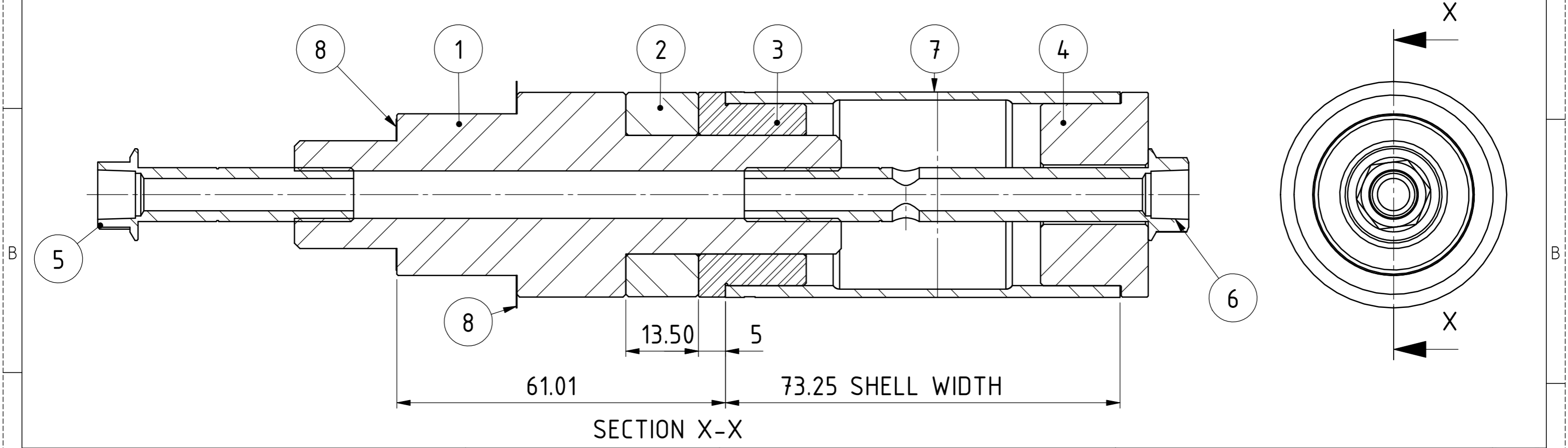


ITEM NO.	PART NUMBER	DESCRIPTION	Default/Qty.
1	BML BB 001	BB MOUNTING SPIGOT	1
2	BML BB 004	73 MM BOTTOM BRACKET SPACER	1
3	BML BB 002	BOTTOM BRACKET INNER SEAT WIDE	1
4	BML BB 007	BOTTOM BRACKET RETAINER M10	1
5	BML TP 002 40	PURGE BOLT 40MM LONG M10-1.25	1
6	BML TP 002 75	PURGE BOLT 75MM LONG M10-1.25	1
7	BML BB 008	BOTTOM BRACKET OUTER SEAT NARROW M10	1
8	BB SHELL	73MM WIDE BB SHELL PAR TOL	1
9	SHIM WASHER	- SHIM WASHER 0.1MM THICK	2

****NOTE****
 COMPONENT "2" BML BB 004
 INTERCHANGEABLE WITH BML BB 003
 SEE SHEET 2 FOR 68MM BB VERSION



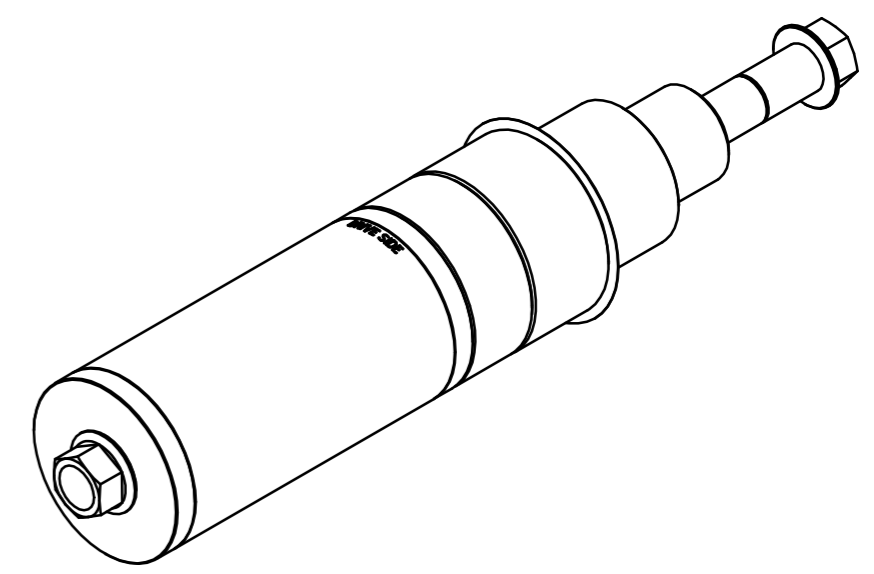
ISO EXPLODED VIEW FOR REF ONLY



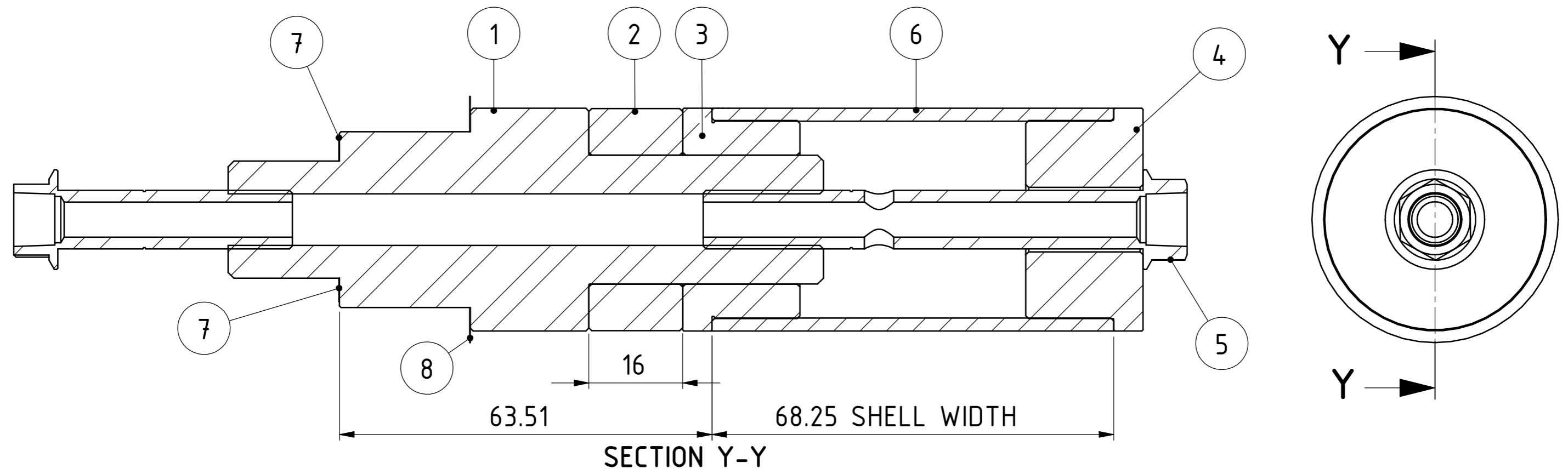
IF IN DOUBT ASK FOR CLARIFICATION		DRAWING TO BS8888		COMPONENT WEIGHT 914.89 GRAMS		SUPERTOOLROOM ENGINEERING UNIT 4, SPRINGVALE TRADING EST PENISTONE, SHEFFIELD, ENGLAND S366HH INFO@BICYCLEMANUFACTURING.CO.UK	BICYCLE MANUFACTURING LTD
TOL UOS	0.0 ±0.25 0.00 ±0.10 0.000 ±0.05	CAST ±1.0 DRAFT 3° TYP ANGULAR ±0.5	SURF FIN TURNED MILLED BORED 3.2µm REAMED 0.8µm GROUND HONED 0.4µm	3D CAD MMC DRAWN MMC APPVD MMC	13/02/2015 13/02/2015 13/02/2015		
CAD	3D CAD MODEL TO BE TREATED AS MASTER DXF AND PROFILE CUTTING TOLERANCE +0.2/-0.2		CASTING'S, FORGING'S AND COMPOSITE MOULDINGS TO BE FREE FROM POROSITY AND VOIDS SEE DETAIL SPECIFICATION	PUB REL Y DEV REL N		MATERIAL SEE BOM/PARTS DRGS	
THREAD	INTERNAL METRIC 6g EXTERNAL METRIC 6H	INTERNAL IMP 2a EXTERNAL IMP 2B	NON HARD ANODIZING TO ISO 7599 HARD TYPE III TO ISO 10074 SEE DETAIL IF OTHER	PLM Software SIEMENS NX		SPECIAL INSTRUCTION MIL-TFD-41	DWG TITLE/PART NAME BB SPACER ASSY/ SUB ASSY
REMOVE ALL BURR'S SHARP EDGES			DO NOT SCALE DRAWING 1:1@A4		ALL DIMENSIONS IN mm U.O.S		DWG No: BML BB 002 ASSY
5		4		3		2	
						1 SHEET 1 OF 4	




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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BML BB 020	CONSUMER LEVEL JIG BB POST	1
2	BML BB 003	68MM BOTTOM BRACKET SPACER	1
3	BML BB 002	BOTTOM BRACKET INNER SEAT WIDE	1
4	BML BB 006	BOTTOM BRACKET OUTER SEAT WIDE	1
5	BML TP 002 75	PURGE BOLT 75MM LONG M10-1.25	1
6	BB SHELL	68MM WIDE BB SHELL PARAGON TOL	1
7	SHIM WASHER	- SHIM WASHER 0.1MM THICK	1
8	SHIM WASHER	- SHIM WASHER 0.1MM THICK	1
9	BML TP 002 40	PURGE BOLT 40MM LONG M10-1.25	1



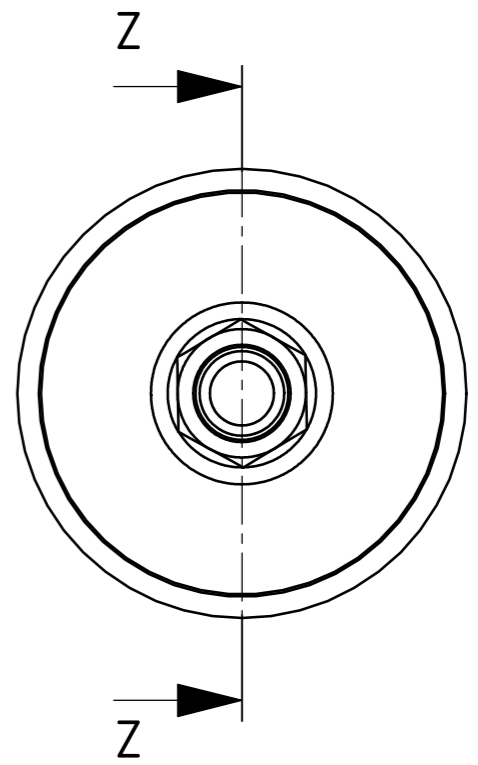
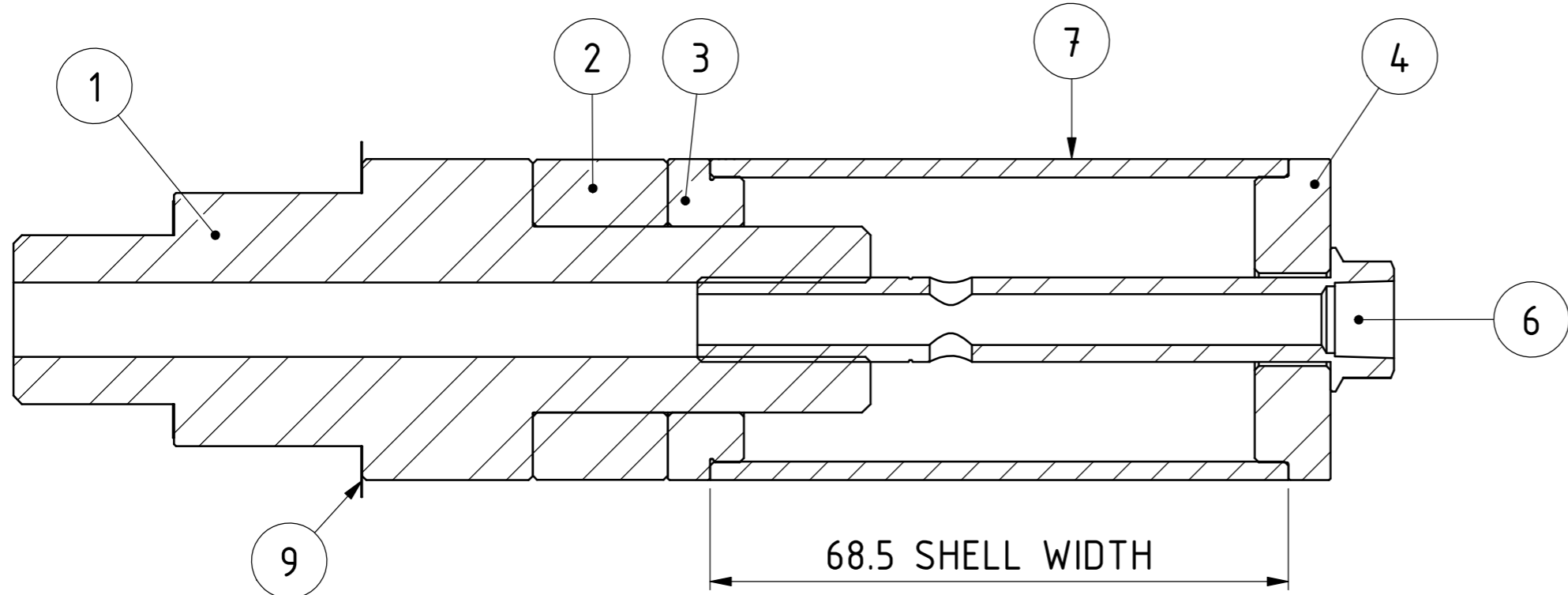
NARROW SEATS REPLACING PARTS 3 AND 4 SHOULD BE USED IN LUGGED BB SHELLS SEE SHEET 3







IF IN DOUBT ASK FOR CLARIFICATION		DRAWING TO BS8888		COMPONENT WEIGHT 883.02 GRAMS		 SUPERTOOLROOM UNIT 4, SPRINGVALE TRADING EST PENISTONE, SHEFFIELD, ENGLAND S366HH INFO@BICYCLEMANUFACTURING.CO.UK	
TOL UOS	0.0 ±0.25 0.00 ±0.10 0.000 ±0.05	CAST ±1.0 DRAFT 3° TYP ANGULAR ±0.5	TURNED MILLED BORED 3.2µm REAMED 0.8µm GROUND HONED 0.4µm	3D CAD MMC DRAWN MMC APPVD MMC	13/02/2015 13/02/2015 13/02/2015	FINISH/TREAT/SPEC SEE BOM/PARTS DRGS	 BICYCLE MANUFACTURING LTD
CAD	3D CAD MODEL TO BE TREATED AS MASTER DXF AND PROFILE CUTTING TOLERANCE	CASTING'S, FORGING'S AND COMPOSITE MOULDINGS TO BE FREE FROM POROSITY AND VOIDS SEE DETAIL SPECIFICATION		PUB REL Y DEV REL N		MATERIAL SEE BOM/PARTS DRGS	
THREAD	INTERNAL METRIC 6g EXTERNAL METRIC 6H	INTERNAL IMP 2a EXTERNAL IMP 2B	NON HARD ANODIZING TO ISO 7599 HARD TYPE III TO ISO 10074 SEE DETAIL IF OTHER			SPECIAL INSTRUCTION	DWG TITLE/PART NAME BB SPACER ASSY/ SUB ASSY
REMOVE ALL BURR'S SHARP EDGES			DO NOT SCALE DRAWING 1:1@A4		ALL DIMENSIONS IN mm U.O.S		DWG No: BML BB 003 ASSY
5		4		3		2	
						1 SHEET 2 OF 4	

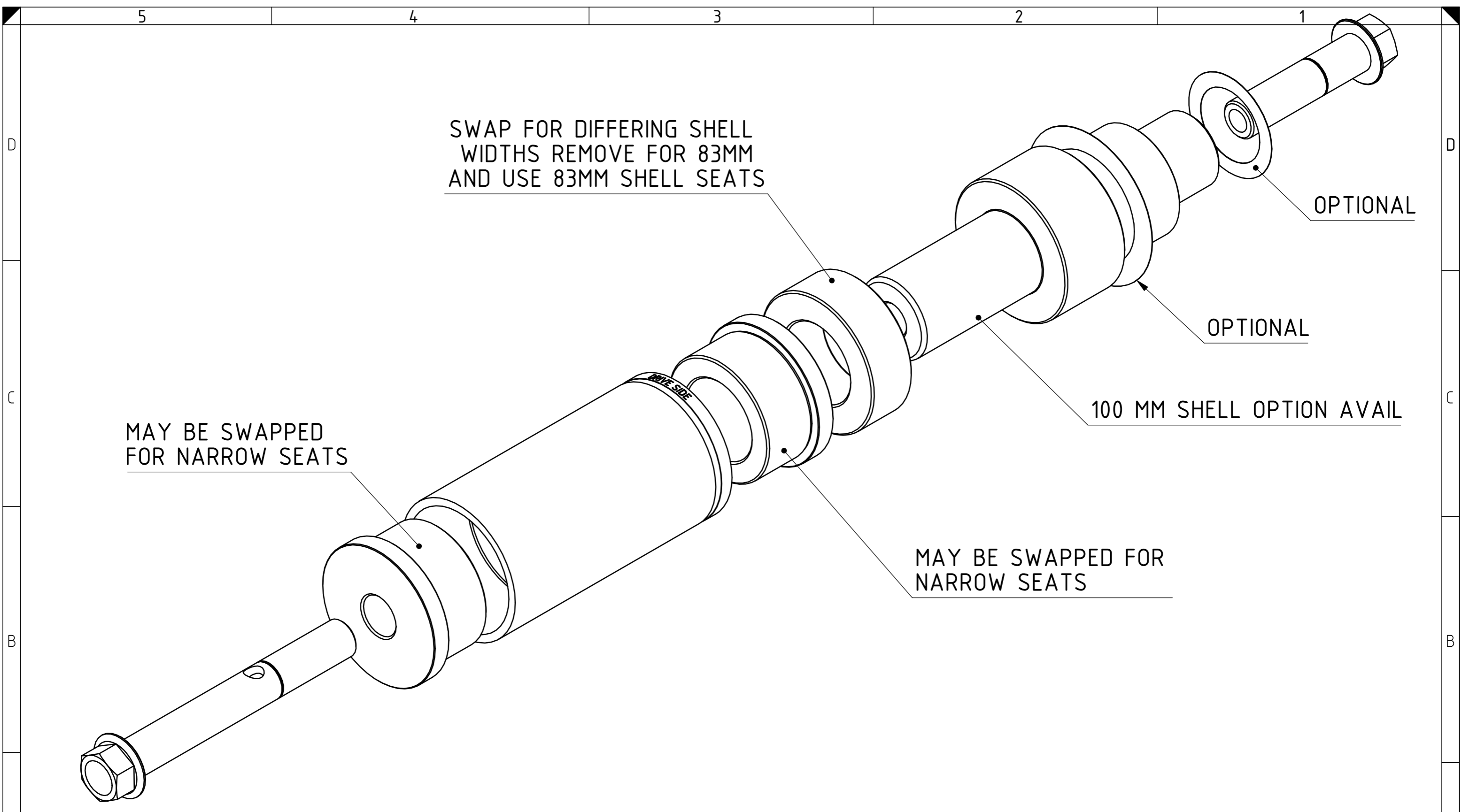
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ITEM NO.	PART NUMBER	DESCRIPTION	BML BB 003 B ASSY/QTY.
1	BML BB 020	CONSUMER LEVEL JIG BB POST	1
2	BML BB 003	68MM BOTTOM BRACKET SPACER	1
3	BML BB 009	BOTTOM BRACKET INNER SEAT NARROW	1
4	BML BB 008	BOTTOM BRACKET OUTER SEAT NARROW M10	1
5	BML TP 002 40	PURGE BOLT 40MM LONG M10-1.25	1
6	BML TP 002 75	PURGE BOLT 75MM LONG M10-1.25	1
7	BB SHELL	68MM WIDE BB SHELL PARAGON TOL	1
8	SHIM WASHER	- SHIM WASHER 0.1MM THICK	1
9	SHIM WASHER	- SHIM WASHER 0.1MM THICK	1



SECTION Z-Z

IF IN DOUBT ASK FOR CLARIFICATION		DRAWING TO BS8888		COMPONENT WEIGHT 766.94 GRAMS		 SUPERTOOLROOM UNIT 4, SPRINGVALE TRADING EST PENISTONE, SHEFFIELD, ENGLAND S366HH INFO@BICYCLEMANUFACTURING.CO.UK	 BICYCLE MANUFACTURING LTD	
TOL UOS 0.0 ±0.25 0.00 ±0.10 0.000 ±0.05	CAST ±1.0 DRAFT 3° TYP ANGULAR ±0.5	SURF FIN TURNED MILLED BORED 3.2µm REAMED 0.8µm GROUND HONED 0.4µm	3D CAD MMC DRAWN MMC APPVD MMC PUB REL Y DEV REL N	13/02/2015 13/02/2015 13/02/2015	FINISH/TREAT/SPEC SEE BOM/PARTS DRGS MATERIAL SEE BOM/PARTS DRGS SPECIAL INSTRUCTION NARROW SEAT VERSION FOR BRAZING			DWG TITLE/PART NAME BB SPACER ASSY/ SUB ASSY DWG No: BML BB 003 B ASSY
3D CAD MODEL TO BE TREATED AS MASTER DXF AND PROFILE CUTTING TOLERANCE +0.2/-0.2		CASTING'S, FORGING'S AND COMPOSITE MOULDINGS TO BE FREE FROM POROSITY AND VOIDS SEE DETAIL SPECIFICATION		PLM Software  		DWG TITLE/PART NAME BB SPACER ASSY/ SUB ASSY DWG No: BML BB 003 B ASSY		SHEET 3 OF 4
REMOVE ALL BURR'S SHARP EDGES		DO NOT SCALE DRAWING 1:1@A4		ALL DIMENSIONS IN mm U.O.S				



IF IN DOUBT ASK FOR CLARIFICATION				DRAWING TO BS8888		COMPONENT WEIGHT 914.89 GRAMS		 SUPERTOOLROOM UNIT 4, SPRINGVALE TRADING EST PENISTONE ,SHEFFIELD, ENGLAND S366HH INFO@BICYCLEMANUFACTURING.CO.UK	
TOL UOS	0.0	±0.25	CAST	±1.0	3D CAD	MMC	13/02/2015	FINISH/TREAT/SPEC	SEE BOM/PARTS DRGS SEE BOM/PARTS DRGS SPECIAL INSTRUCTION
	0.00	±0.10	DRAFT	3° TYP	DRAWN	MMC	13/02/2015	MATERIAL	
	0.000	±0.05	ANGULAR	±0.5	APPVD	MMC	13/02/2015		
CAD	3D CAD MODEL TO BE TREATED AS MASTER			CASTING'S, FORGING'S AND COMPOSITE MOULDINGS TO BE FREE FROM POROSITY AND VOIDS SEE DETAIL SPECIFICATION			PUB REL	Y	DWG TITLE/PART NAME
THREAD	DXF AND PROFILE CUTTING TOLERANCE			NON HARD ANODIZING TO ISO 7599 HARD TYPE III TO ISO 10074 SEE DETAIL IF OTHER			DEV REL	N	BB SPACER ASSY/ SUB ASSY
	INTERNAL METRIC 6g	INTERNAL IMP 2a			 				DWG No:
	EXTERNAL METRIC 6H	EXTERNAL IMP 2B							BML BB 001 ASSY
REMOVE ALL BURR'S SHARP EDGES				DO NOT SCALE DRAWING 1:5@A4		ALL DIMENSIONS IN mm U.O.S		REVISION	
								A	
								SHEET 4 OF 4	