

Spare Part Listing

SPL Serial No.: TR-2009031101

TTI Model No. : 090431003, 090431004, 090431008

Description: 30CC ML4C RYOBI SPLIT STRAIGHT SHAFT BRUSH CUTTER WITH ERGO
HANDLE \ RBC430 SES

Customer No./Model No.: RBC430 SES

Revision	ECR No.	Effective Date	Checked By	Change Description Details
01	ECR-0903021	Mar-11-09	Bill Yang	Design released

RBC430SES Spare part List

ITEM	TTI P/N	COMPONENT NO. DESCRIPTION	QTY	Availability	REMARK
1	309802002	4-STROKE ENGINE \ CE	1	/	
2	308470015	UPPER BOOM W LABEL ASS'Y \ SPL RBC430SES	1	*	
2.1	308172008	AL TUBE & FLEX SHAFT W/ LABEL ASSY \ RLT430CES	1	*	
2.1.1	940654040	WARNING LABEL ON SHAFT (upper)	1	*	
2.1.2	308172004	AL TUBE & FLEX SHAFT ASSEMBLY	1	/	
2.1.2.1	638429003	AL-TUBE,UPPER \ BLACK	1	/	Need special fixture to assemble together
2.1.2.2	308033004	LINE & SHAFT ASSY, UPPER BOOM/ B.W.Elliot	1	/	
2.1.2	308172005	AL TUBE & FLEX SHAFT ASSEMBLY \ UPPER	1	/	
2.1.2.1	638429003	AL-TUBE,UPPER \ BLACK	1	/	EI 308172005 OR 308172004
2.1.2.2	308479003	UPPER FLEX SHAFT & LINER ASS'Y \ AL TUBE	1	/	
2.1.2.3	308045005	KNOB W/ 1/4-20 UNC-2A THREAD	1	/	Need special fixture to assemble together
2.1.2.4	638010001	CLAMP,SPLIT BOOM \ PS02070	1	/	
2.2	308863007	ELECTRICAL LEAD WIRE ASS'Y \ 26CC CE	1	*	
2.3	308842003	THROTTLE CABLE ASSEMBLY \ 090430	1	*	
2.4	308188001	HANGER & COLLAR ASSEMBLY	1	*	
2.4.1	678030001	SPRING, HANGER \ 01214	1	*	
2.4.2	518035001	PLASTIC, COLLAR \ BLK \ 94439	1	*	
2.4.3	660652001	SCREW, THUMB #10-24X1/2" UNC-2A \ 82260	1	*	
2.5	518693003	PLASTIC,HANDLE HALF LH SIDE \ DARK GRAY	1	*	
2.6	518695002	PLASTIC,LOCKOUT,TRIGGER	1	*	
2.7	518696002	PLASTIC,TRIGGER	1	*	
2.8	690694002	SPRING,THROTTLE\983624001	1	*	
2.9	570234002	PLASTIC(RUBBER),GRIP	1	*	
2.10	518694003	PLASTIC,HANDLE HALF RH SIDE \ DARK GRAY	1	*	
2.11	660563002	ST SCREW,STEEL \ BLACK Zn-PLATED M4.0x20	4	*	
2.12	678818001	SPRING,FOR HOLD THROTTLE CABLE	1	*	
3	308056002	ASSIST HANDLE ASSEMBLY W/ BARRIER BAR	1	*	
3.1	518037001	SOFT PLASTIC,GRIP,D-HANDLE \ PS04258	1	*	
3.2	518040001	PLASIC,D-HANDLE \ PS04408	1	*	
3.3	660653001	SCREW, #12-24 \ PS04159	2	*	
3.4	518038001	PLASIC,M-CLAMP \ PS04070	1	*	
3.5	518039001	PLASIC, BAR, BARRIER \ PS04071	1	*	
3.6	660637001	ST SCREW, STEEL #10-14x7/8" SLOTTED TORX	2	*	
3.7	518020001	PLASTIC, CLAMP, ASSIST \ PS04072	1	*	
3.8	678106001	NUT, #12-24 \ 81068	2	*	
4	308468004	LOWER BOOM W LABEL ASS'Y \ BC \ SPL RBC430SES	1	*	
4.1	518019002	END CAP,NEW LOOP	1	*	
4.2	308841004	LOWER BOOM W/ LABEL ASSY \ RBC430SES	1	*	
4.2.1	638011001	STAMPING,SNAP BUTTON\PS02072A	1	/	
4.2.2	678009001	RIVET,STEEL \ PS02087	1	/	
4.2.3	638004005	ALUMINUM LOWER TUBING L=29.45"	1	/	
4.2.4	518003002	PLASTIC,LINER LOWER CURVED L=24.60"	1	/	Need special fixture to assemble together
4.2.5	308024001	DRIVESHAFT,LOWER \ A07679 \ 983642004	1	/	
4.2.6	678002001	RIVET \ PS02389	1	/	
4.2.7	638008001	STAMPING,CLAMP,BOOM \ 984251	1	/	
4.2.8	940654041	WARNING LABEL ON SHAFT	1	*	
4.3	518367001	PLASTIC,SPACER \ GEARHEAD \ 985625001	1	*	
4.4	660642001	ST SCREW,1/4-20 X 1.25" \ PS04680	1	*	
4.5	660641001	ST SCREW,# 10-24 X5/8" \ PS04673	1	*	
4.6	308210001	GEAR BOX ASSEMBLY (FOR CUTTING GEAR)	1	*	
4.6.1	220100001	SPIRAL BEVEL GEAR AND SPIRAL BEVEL PINION ASS'Y	1	/	
4.6.1.1	610468001	SPIRAL BEVEL GEAR SCM415 D=24	1	/	
4.6.1.2	610468002	SPIRAL BEREL PINION SCM415 D=19	1	/	
4.6.1	220100002	SPIRAL BEVEL GEAR AND SPIRAL BEVEL PINION ASS'Y	1	/	
4.6.1.1	610468006	SPIRAL BEVEL GEAR SCM415 D=24	1	/	EI 220100001 OR 220100002
4.6.1.2	610468007	SPIRAL BEREL PINION SCM415 D=19	1	/	
4.6.2	620363001	SPLINE SHAFT SCM435 L=60.6	1	/	
4.6.3	638093001	PLUG SMF4040 D=7.5	1	/	
4.6.4	640886001	GEAR CASE (TYPE CUTTING) \ ADC12	1	/	
4.6.4.1	880886001	W/SS GEAR CASE FOR 640886001	1	/	
4.6.4	640886006	GEAR CASE (TYPE CUTTING) \ ADC12	1	/	
4.6.4.1	880886001	W/SS GEAR CASE FOR 640886001	1	/	EI 640886001 OR 640886006

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Note: * means can provide as spare part
/ means can not provide as spare part

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4.6.5	660720001	PAN SCREW STEEL MG M6 PHILIPS RECESS L=8 ZINC	1	/	
4.6.6	678129002	BALL BEARING 626 OPEN	1	/	
4.6.7	678187001	C-RING,RTW-28	1	/	
4.6.8	690847001	C-SNAPRING CARBON SPRING STEEL RTW22	1	/	
4.6.9	690847002	C-SNAPRING STEEL ISTW9	1	/	
4.6.10	900240038	GREASE SL 3315	0.008	/	
4.6.11	678129005	BALL BEARING R6-2Z	1	/	
4.6.12	678129006	BALL BEARING 6001 LLH \ DOUBLE LIPS SEAL	1	/	
4.6	308053001	GEAR CASE ASSEMBLY \ PA01364	1	*	EI 308210001 OR 308053001
4.7	678011001	FLANGED WASHER \ 041681A	1	*	
4.8	678019003	SHAFT,ADAPTER \ LONGER	1	*	
4.9	308923006	STRINGHEAD ASM-LX50 W/0.095 CUTTING LINE \ CE	1	*	
4.9.1	308923004	STRINGHEAD ASM-LX50 \ CE	1	*	
4.9.2	900880009	CUTTING LINE-0.095" RED	1	*	
4.9.2.1	900880002	CUTTING LINE-DIA 0.095" RED \ 984237001	6	*	
4.9.3	660649001	SCREW,5/16-18UNC-2A LH \ 97939	1	*	
5	660634001	ST SCREW,STEEL # 8-16 x 5/16" TORX	1	*	
6	660697002	ST SCREW,M6x1x20 TORX RECESSED BUTTOM	1	*	
7	678029002	NUT,HEX, M6x1,BLACK OXIDE \ 983619015	1	*	
8	690140011	SPRING, COMPRESSION, SHAFT\984106001	1	*	
9	308057004	BRUSH CUTTER SHIELD & BLADE ASS'Y WITH WARNING LABEL	1	*	
9.1	518016001	PLASTIC,CCW STRING SHIELD \ 08572	1	*	
9.2	678017001	ELASTIC STOP NUT, #10-24 \ 81261	2	*	
9.3	638016001	STAMPING, BLADE, CUT OFF \ 07076	1	*	
9.4	660645001	SCREW,#10-24X7/8\BLK PHOSPHATE \82531	2	*	
9.5	940230072	LABEL,WARNING \ ON SAFTY GUARD 090038001	1	*	
10	308925006	STRINGHEAD ASM-LX17 W/ 0.105" CUTTING LINE	1	*	
10.1	901670001	CUTTING LINE,Rino-Tuff OD=0.105" L =11" \ GREEN	10	*	
10.2	308925004	STRINGHEAD ASM-LX17 \ CE	1	*	
10.3	308042003	SPOOL RETAINER LHT RED\A97910A	1	*	
10.3.1	518031002	PLASTIC,RETAINER CAP RED\97916A	1	/	
10.3.2	638019001	STAMPING, PLUG EXPANSION \ 00746	1	/	
10.3.3	660649001	SCREW,5/16-18UNC-2A LH \ 97939	1	/	
11	518017001	PLASTIC,CCW BLADE GUARD\08573	1	*	
12	308063001	MOUNTING PLATE & SCREW ASSY	2	*	
12.1	308048001	MOUNTING PLATE \ A08139	1	*	
12.1.1	678025001	PLATE \ 08621	1	/	
12.1.2	678026001	CLINCH NUT \ 08805	2	/	
12.2	660644001	SCREW, #10-24 \ PS01255	2	*	
13	678020001	TOOL,HOLDING PIN \ 00063	1	*	
14	900877002	BACKPACK HARNESS ASSY	1	*	
15	518018001	PLASIC, BLADE COVER \ 984174	1	*	
16	638006001	TRIAC BLADE \ 984227001	1	*	
17	638017001	STAMPING,CUPPED WASHER \ 04409	1	*	
18	678018001	NUT& WASHER, M8-1.25 LH , LOCK \ 04277	1	*	

SPL for engine 309802002

1	660466001	SCREW,PLASTIC T20 M4x18 \ 26CC	4	*	
2	660970001	SCREW,TAPTITE THR,FORM M4x16mm	4	*	
3	310304001	START HOUSING ASSEMBLY \ 090430	1	*	
3.1	518141002	PLASTIC,FRONT HOUSING W/ FEET \ 4-STROK	1	/	
3.2	638088001	STAMPING,EYELET	1	/	
3.3	690698001	SNAP RING,STEEL \ ID11mm	1	/	Need special fixture to assemble together
3.4	690697001	BALL BEARING,SEALED,STEEL \ ID12x28x8	1	/	
3.5	690684001	SNAP RING,STEEL \ OD 30mm	1	/	
3.6	308839001	CLUTCH DRUM	1	/	
4	300960002	CLUTCH ASS'Y	1	*	
5	638090001	STAMPING, WASHER \ 98929A	1	*	
6	518994001	PLASTIC,STARTER BAFFLE \ 090430	1	*	
7	638033001	SPRING & CONTAINER	1	*	
8	518501001	PLASTIC,PULLEY \ 26cc	1	*	
9	518996001	PLASTIC,AIR DAM \ 090430	1	*	
10	638389001	STAMPING,PULLEY RETAINER \ 26CC	3	*	
11	660466001	SCREW,PLASTIC T20 M4x18 \ 26CC	3	*	

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12	310585003	FUEL TANK & CAP ASSEMBLY \ 4-CYCLE CE SP	1	*	
12.1	310586002	FUEL CAP ASSEMBLY \ 4-CYCLE	1	*	
12.2	660970008	SCREW,M4,FUEL TANK MOUNTING \ 26CC VAC	2	*	
12.3	310587002	FUEL TANK ASS'Y \ 4 CYCLE CE	1	*	
12.4	638576001	FLAT WASHER AL \ 12.5x5.2x2.0	2	*	
12.5	960400004	FUEL HANG TAG	1	*	
13	638284002	STAMPING,SPACER TUBE	1	*	
14	650017001	WASHER FLAT \ PS05268	1	*	
15	309011001	FLYWHEEL ASS'Y \ 4-STROKE TRIMMER	1	*	
16	309921006	SHORT BLOCK \ 4-STROKE 30CC ENGINE	1	*	
16.1	518629001	PLASTIC,OIL GAUGE \ 090430	1	*	
16.2	570400001	RUBBER,O-RING,DIP STICK \ 090430	1	*	
16.3	310791001	OIL PAN W/ LABEL ASSY	1	*	
16.3.1	518924002	PLASTIC,PAN,OIL \ 4-STROKE	1	/	
16.3.2	940680025	LABEL,HOT SURFACE WARNING	1	/	
16.4	660925003	ST SCREW,T20 M4x12mm	9	*	
16.5	570709002	GASKET,OIL PAN \ 090430	1	*	
16.6	309921005	SHORT BLOCK ASS'Y \ 30CC 4-CYCLE CE SPARE PA	1	*	
16.6.1	309165011	ASM,CRANKCASE \ 4-STROKE ENGINE W/ 3091	1	/	
16.6.1.1	309165010	CYLINDER ASS'Y-30CC 4 CYCLE W/ VALVE & S	1	/	
16.6.1.2	678751001	BEARING,BALL DOUBLE SEAL \ 090430001	1	/	
16.6.1.3	678753001	BEARING,BALL OPEN \ 090430001	1	/	
16.6.1.4	570707001	RUBBER,OIL SEAL \ 090430001	1	/	
16.6.1.5	309166001	ASM,CRANKSHAFT & COUNTER WEIGHT \ 0904	1	/	
16.6.1.5.1	309170001	CRANKSHAFT COUNTERWEIGHT ASS'Y	1	/	
16.6.1.5.2	610702001	GEAR,CRANKSHAFT \ 090430001	1	/	
16.6.1.6	309112001	ASM,PISTON AND ROD \ ML-4C	1	/	
16.6.1.7	901656002	TIMING BELT \ 090430001	1	/	
16.6.1.8	570098001	PLASTIC,VALVE-DUCK BILL \ 090430	1	/	
16.6.2	310400002	ASSEMBLE,CAM BRACKET \ 090431	1	/	
16.6.2.1	518625002	PLASTIC,CAM LOBES \ 090430	1	/	
16.6.2.2	310524001	CAM GEAR & SHAFT ASS'Y \ 090430	1	/	
16.6.2.3	901683001	CAMSHAFT SEAL \ ID 7mm	1	/	
16.6.2.4	901683002	CAMSHAFT SEAL \ ID 6mm	1	/	
16.6.2.5	638490001	STAMPING,ROCKER ARM \ 090430	2	/	
16.6.2.6	678711001	NUT,PIVOT \ 090430	2	/	
16.6.2.7	678771002	PIVOT,ROCKER \ 090430	2	/	
16.6.2.8	660783003	SCREW,BOLT,STUD,M8	2	/	
16.7	901705001	GASKET,CAM COVER \ 090430	1	*	
16.8	638692001	CAM COVER,AL \ 090430	1	*	
16.9	570400002	RUBBER,O-RING,CAM COVER \ 090430	1	*	
16.10	660780002	SCREW,VALVE COVER \ M4	1	*	
17	310792001	AIR BOX COVER W LABEL ASSY	1	/	
17.1	518959001	PLASTIC,AIR BOX COVER \ 090430001	1	*	
17.2	940734056	STARTING INSTRUCTION LABEL	1	*	
18	678180002	NUT,M5x0.8 HEX \ 090430	2	*	
19	518960001	PLASTIC,AIR BOX BASE \ 090430001	1	*	
20	309368001	CARBURETOR ML-4C \ RuiXing	1	*	
21	518692002	PLASTIC,AIR BAFFLE \ 090430	1	*	
22	900809003	GASKET CARBURETOR	1	*	
23	660629003	ST SCREW,T25 M5x0.8	2	*	
24	518143001	PLASTIC,HEAT DAM \ 4-STROKE TRIMMER	1	*	
25	661509001	BOLT,HEAT DAM \ 090430001	2	*	
26	901657002	HEAT DAM GASKET \ 090430001	1	*	
27	570710002	PLASTIC,HOSE,BREATHER CV TO CYLINDER	1	*	
28	570710003	PLASTIC,HOSE,BREATHER BOOT TO CV	1	*	
29	570710004	PLASTIC,HOSE,BREATHER CV TO AIR BOX	1	*	
30	308826002	CHECK VALVE ASSEMBLY	2	*	
31	570401001	RUBBER,BREATHER FITTING \ 090430	1	*	
32	519722002	Cable Tie, 6.9 inch	1	*	
33	660466002	SCREW,PLASTIC T20 M4x12	3	*	
34	518995001	PLASTIC,MUFFLER HOUSING \ ML-4C	1	*	
35	310793001	TOP HOUSING W/ LABEL ASSY	1	/	
35.1	518142002	PLASTIC,TOP HOUSING \ 4-STROKE TRIMMER	1	*	
35.2	940705020	LOGO LABEL	1	*	
36	660510005	SCREW,T20 M5x0.8 \ 090430001	1	*	

Need special fixture to
assemble together

Note: * means can provide as spare part
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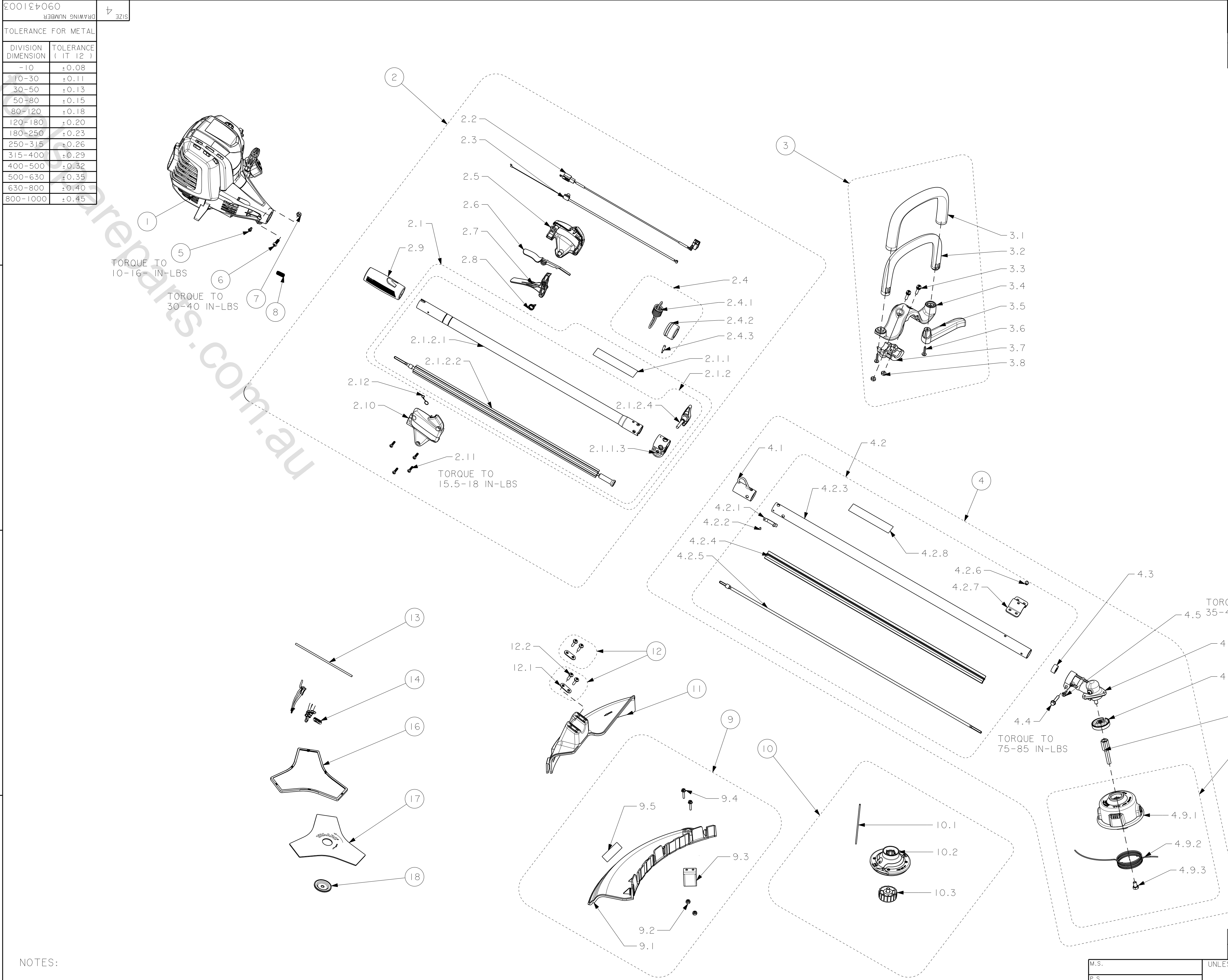
37	870301001	SPARK PLUG \ ML-4C \ 983644	1	*	
38	901702002	WRAP MUFFLER GASKET \ 4-STROKE	1	*	
39	309320001	MUFFLER ASS'Y \ 4-STROKE TRIMMER	1	*	
40	661143001	M BOLT,MUFFLER BOLT (M5x42mm) \ 09043000	2	*	
41	308863023	ELECTRICAL LEAD WIRE ASS'Y \ 4 CYCLE CE	1	*	
42	309263003	IGNITION MODULE \ 4 CYCLE CE \ SHIELDED	1	*	
43	660968001	SCREW,SELF TAPPING	2	*	
44	511731004	PLASTIC,GRIP STARTER \ GRAY	1	*	
45	900849002	STARTER ROPE 42"	1	*	
46	518548001	PLASTIC,CE SHIELD COVER \ 090430	1	*	
47	660619001	ST SCREW,STEEL #6-19x1/2" PH \ BLK PHOSP	2	*	

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000137060	
DRAWING NUMBER	SIZE
TOLERANCE FOR METAL	
DIVISION	TOLERANCE
DIMENSION	(IN) (MM)
-10	±0.08
10-30	±0.11
30-50	±0.13
50-80	±0.15
80-120	±0.18
120-180	±0.20
180-250	±0.23
250-315	±0.26
315-400	±0.29
400-500	±0.32
500-630	±0.35
630-800	±0.40
800-1000	±0.45

REVISIONS				
REV	ZONE	DESCRIPTION	ECR	CHECKED
01		DESIGN RELEASED	DXL/YM 03/26/09	HL0903021 YM 03/26/09
COMPUTERIZED DOCUMENT NO MANUAL REVISIONS PERMITTED				

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NOTES:

1. SEE QUALITY ASSURANCE FOR ADDRESSING CRITICAL AND MAJOR INSPECTIONS

TOTAL C DIMENSIONS ON THIS PAGE = 0

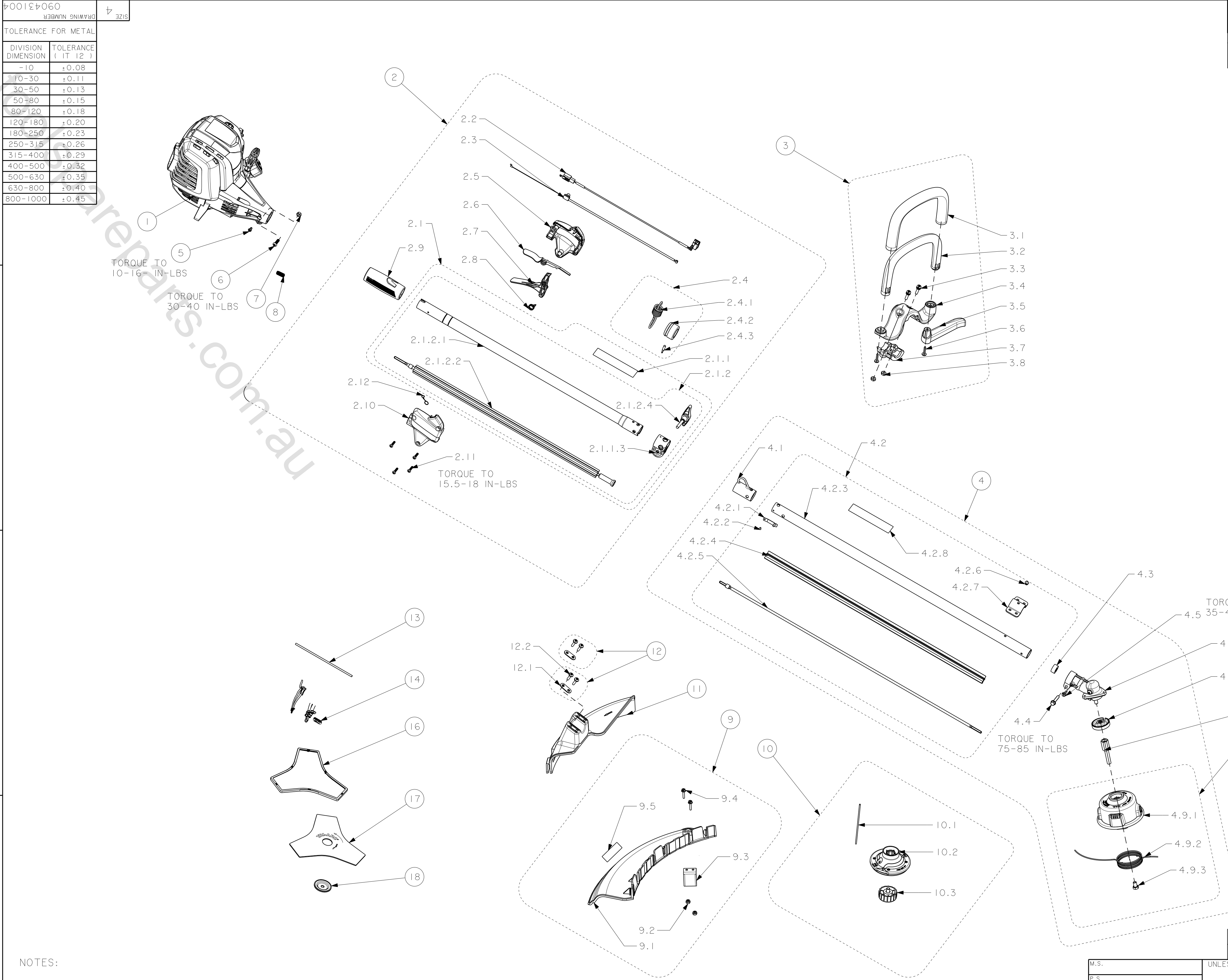
TOTAL M DIMENSIONS ON THIS PAGE = 0

090431003	30CC ML4C RYOBI BRUSH CUTTER/RBC430SES	AS PURCHASED	
PART NUMBER	DESCRIPTION	REMARKS	
DRAWN BY LCX		DATE 05/23/08	TTI GROUP NORTH AMERICA
CHECKED BY WJH		DATE 05/23/08	TITLE
APPROVED BY KW.MA		DATE 05/23/08	30CC ML4C RYOBI BRUSH CUTTER/RBC430SES
MATERIAL N/A		SIZE 4	DRAWING NUMBER 090431003
THIRD ANGLE PROJECTION		SCALE 1:5	REV 01
		SHEET 1 OF 1	

0013060	
DRAWING NUMBER	SIZE
TOLERANCE FOR METAL	
DIVISION	TOLERANCE
DIMENSION	(IN)
-10	±0.08
10-30	±0.11
30-50	±0.13
50-80	±0.15
80-120	±0.18
120-180	±0.20
180-250	±0.23
250-315	±0.26
315-400	±0.29
400-500	±0.32
500-630	±0.35
630-800	±0.40
800-1000	±0.45

REVISIONS				
REV	ZONE	DESCRIPTION	ECR	CHECKED
01		DESIGN RELEASED	DXL/YM 03/26/09	HL0903021 YM 03/26/09
COMPUTERIZED DOCUMENT NO MANUAL REVISIONS PERMITTED				

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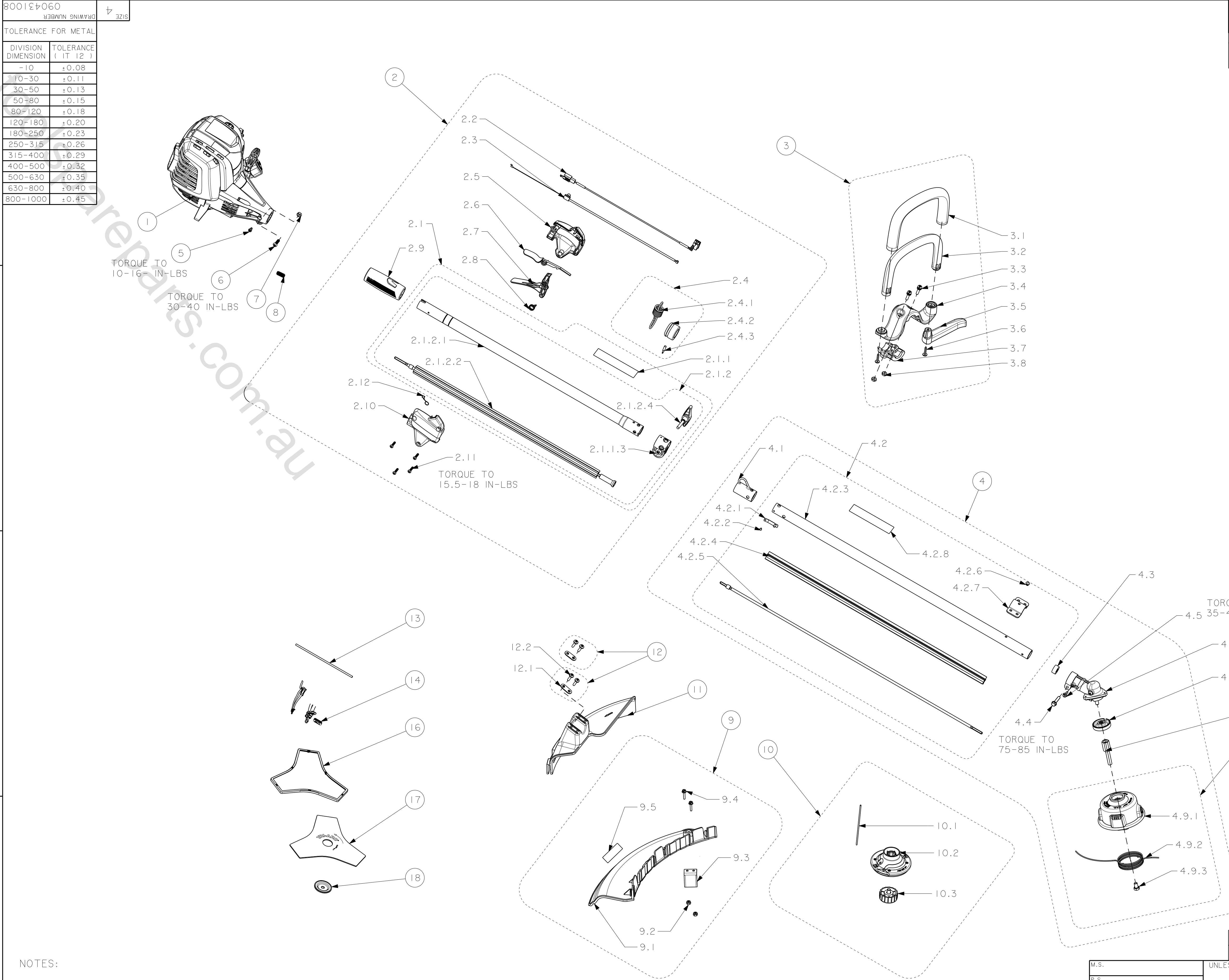
TOTAL DIMENSIONS ON THIS PAGE = 0

090431004	30CC ML4C RYOBI BRUSH CUTTER/RBC430SES	AS PURCHASED	
PART NUMBER	DESCRIPTION	REMARKS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. FOR ALL UNSPECIFIED DIMENSIONS PLEASE REFER TO THE CAD FILE. DO NOT SCALE. USE DIMENSIONS ONLY. DIMENSION & TOLERANCE PER ASME Y14.5M-1994		TTI GROUP NORTH AMERICA	
THIRD ANGLE PROJECTION		TITLE	
MATERIAL		30CC ML4C RYOBI BRUSH CUTTER/RBC430SES	
N/A		REV	
SCALE		NONE	
SHEET		1 OF 1	

800137060		SIZE
DRAWING NUMBER		4
TOLERANCE FOR METAL		
DIVISION	TOLERANCE	
DIMENSION	(IN)	(MM)
-10	±0.08	
10-30	±0.11	
30-50	±0.13	
50-80	±0.15	
80-120	±0.18	
120-180	±0.20	
180-250	±0.23	
250-315	±0.26	
315-400	±0.29	
400-500	±0.32	
500-630	±0.35	
630-800	±0.40	
800-1000	±0.45	

REVISIONS					
REV	ZONE	DESCRIPTION		ECR	CHECKED
01		DESIGN RELEASED	DXL/YM 03/26/09	HL0903021	YM 03/26/09
COMPUTERIZED DOCUMENT NO MANUAL REVISIONS PERMITTED					

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NOTES:
1. SEE QUALITY ASSURANCE FOR ADDRESSING CRITICAL AND MAJOR INSPECTIONS

TOTAL (C) DIMENSIONS ON THIS PAGE = 0

TOTAL (M) DIMENSIONS ON THIS PAGE = 0

090431008	30CC ML4C RYOBI BRUSH CUTTER/RBC430SES	AS PURCHASED	
PART NUMBER	DESCRIPTION	REMARKS	
DRAWN BY LCX		DATE 05/23/08	TTI GROUP NORTH AMERICA
CHECKED BY WJH		DATE 05/23/08	TITLE
APPROVED BY KW.MA		DATE 05/23/08	30CC ML4C RYOBI BRUSH CUTTER/RBC430SES
MATERIAL N/A		SIZE 4	DRAWING NUMBER 090431008
THIRD ANGLE PROJECTION		SCALE NONE	REV 01
		SHEET 1 OF 1	

200202002		4
DRAWING NUMBER		SIZE
TOLERANCE FOR METAL		
DIVISION	TOLERANCE (IT 12 I)	
—10	±0.08	
10-30	±0.11	
30-50	±0.13	
50-80	±0.15	
80-120	±0.18	
120-180	±0.20	
180-250	±0.23	
250-315	±0.26	
315-400	±0.29	
400-500	±0.32	
500-630	±0.35	
630-800	±0.40	
800-1000	±0.45	

