BARTELL GLOBAL | PARTS BOOK

WALK-BEHIND TROWELS

B446, B446 MEGA-T

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ORIGINAL LANGUAGE OPERATING MANUAL FOR BARTELL RIDE-ON TROWELS

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REV.	DATE	DESCRIPTION	APPROVED BY:
02	08/05/17	Rearranged the order of parts list, added 20288 – pulley assembly to handle parts lists. Address update, changed handle asm p/n	AN
03	02/18	Added decal part numbers, updated handle parts/dwg	AN
04	01/19	Updated P/N's on parts list 11	AN
05	07/19	Updated Easy Pitch P/N's	AN
06	09/19	Updated Address	AN
07	08/20	Pro Pitch Added	AN
08	12/21	Updated Mega-T Section	AN
09	04/22	Description Updates	AN
10	05/23	Add Pro Pitch Handle Assembly	AN
11	04/24	Updated Clutch Part Number	AN

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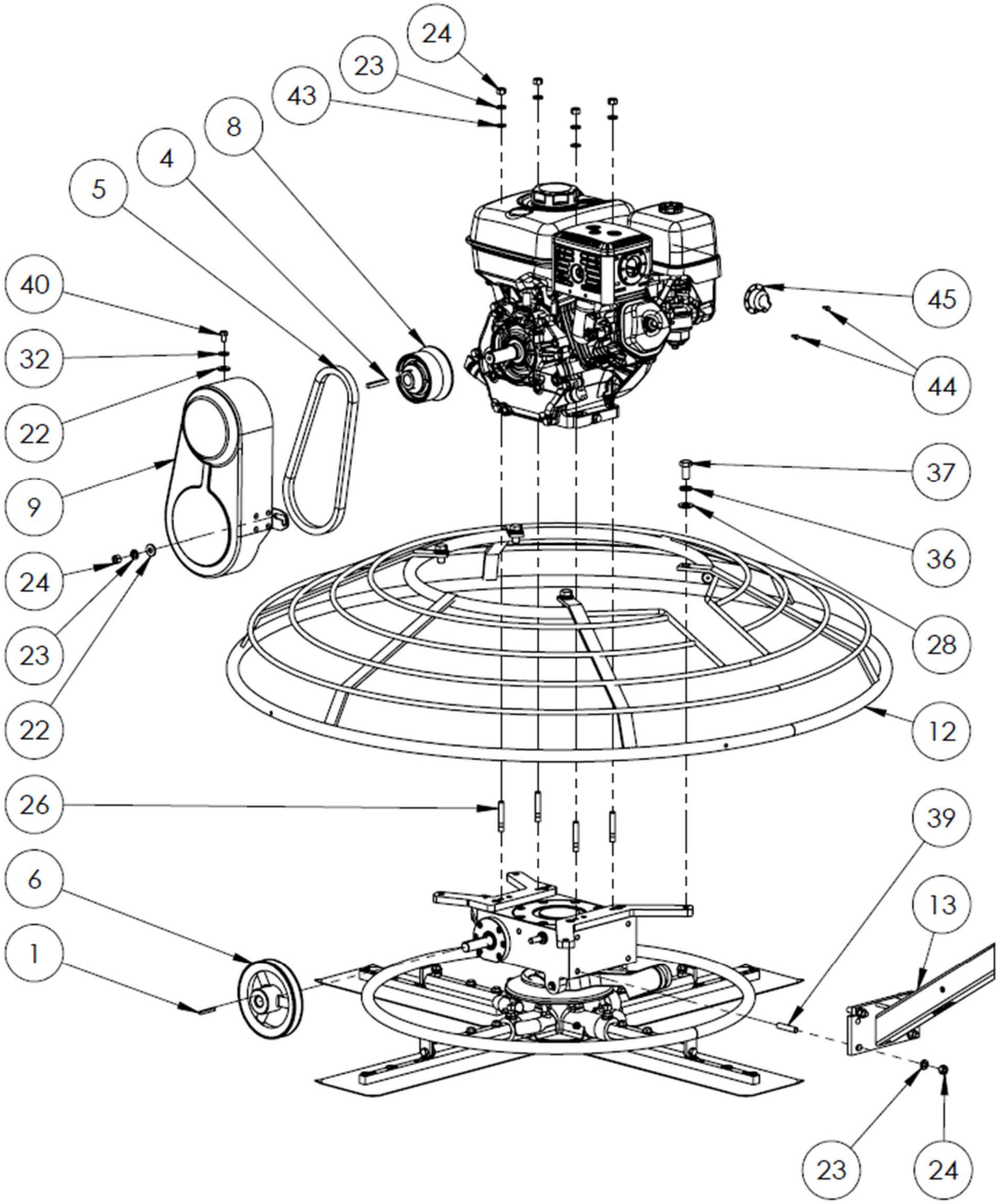
PARTS LIST 1 – WALK-BEHIND TROWELS

GENERAL ASSEMBLY DIAGRAM: B446

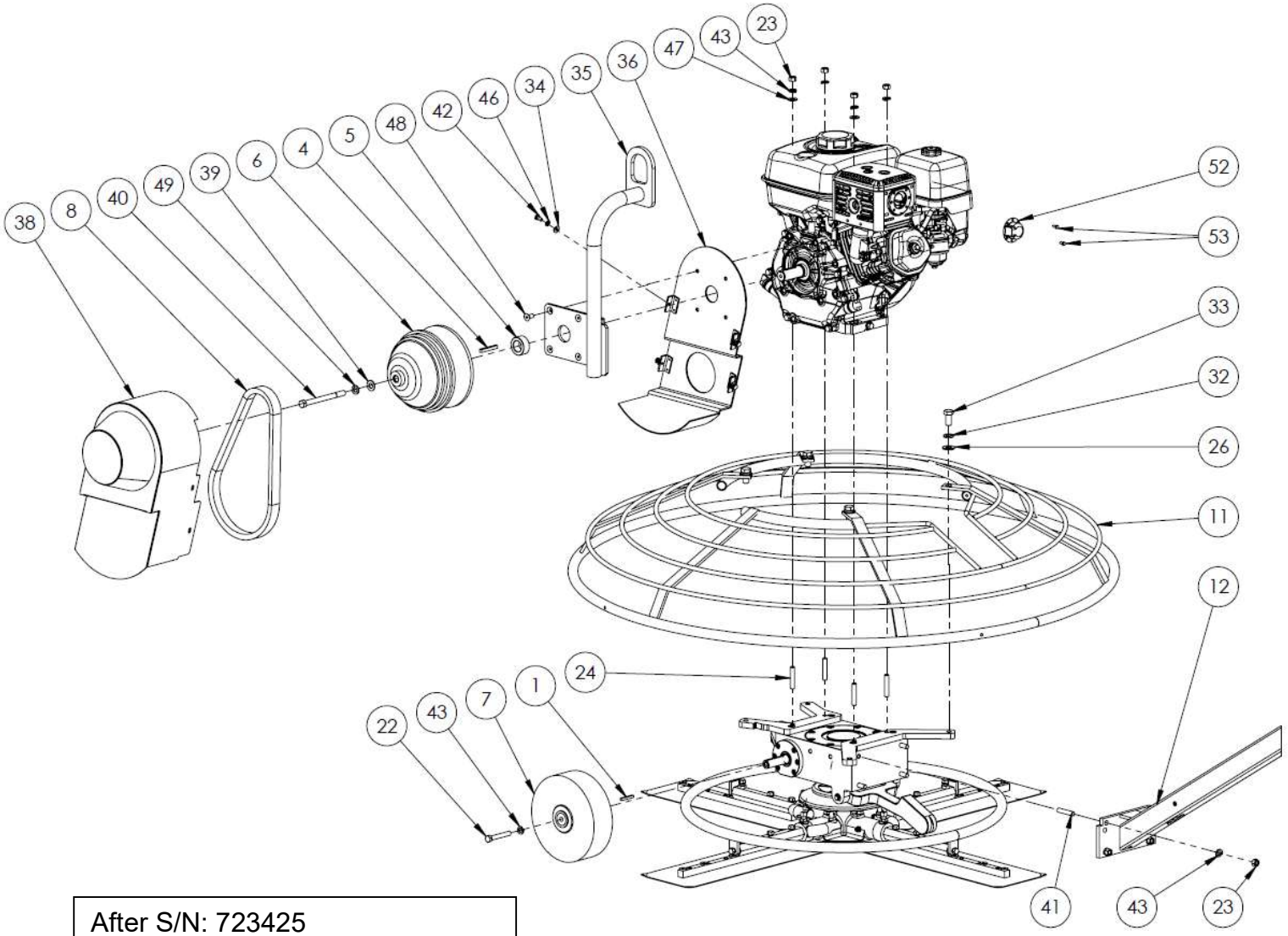


GENERAL ASSEMBLY: B446 - PARTS LIST 1

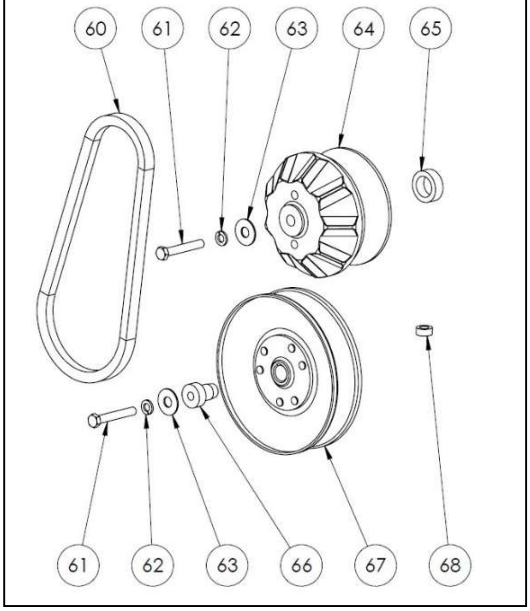
Item #	Part #	Description	QTY	Remarks
1	10208	KEY, 3/16” SQ. x 1 1/2” LG	1	6/8/2004
4	10608	KEY, 1/4" SQ. X 1-5/32” LG	1	6/8/2004
5	11178	BELT, B29	1	6/8/2004
6	14285	SHEAVE	1	6/8/2004
8	21049	CLUTCH, 1” BORE	1	4/11/2024
9	21067-1	BELT GUARD, LG	1	6/8/2004
12	20448	GUARD RING, CHROME	1	6/8/2004
13	20231C 20231E 20365	HANDLE ASSEMBLY HANDLE ASSEMBLY, EUROPEAN HANDLE ASSEMBLY, PRO PITCH	1	6/8/2004
22	10919	WASHER, FLAT, 5/16” DIA.	5	6/8/2004
23	10902	WASHER, LOCK, SPLIT, 3/8”	9	6/8/2004
24	10901	HEX NUT, 3/8-16	9	6/8/2004
26	14650	STUD, SELF-LOCKING, ENGINE MOUNT	4	6/8/2004
28	50026	WASHER, FLAT, 1/2" DIA.	4	6/8/2004
32	10402	WASHER, LOCK, SPLIT, 5/16”	13	6/8/2004
36	10009	WASHER, LOCK, 1/2”	4	6/8/2004
37	13781	HEX HEAD CAP SCREW, 1/2-13 X 1” LG	4	6/8/2004
39	11339	STUD, SELF-LOCKING, HANDLE MOUNT	4	6/8/2004
40	10409	HEX HEAD CAP SCREW, 5/16-18 X 1/2" LG	1	6/8/2004
44	11112	SCREW, MUFFLER CAP	1	6/8/2004
45	11115	MUFFLER CAP	2	6/8/2004
NOT SHOWN	11800	OIL DRAIN HOSE ASSEMBLY	1	6/8/2004
	01109-B446-1	DECAL KIT, B446	1	
	01109-FAM-B	ROUND BARTELL DECAL	1	

PARTS LIST 2 – WALK-BEHIND TROWELS

GENERAL ASSEMBLY DIAGRAM: MEGA-T



After S/N: 723425

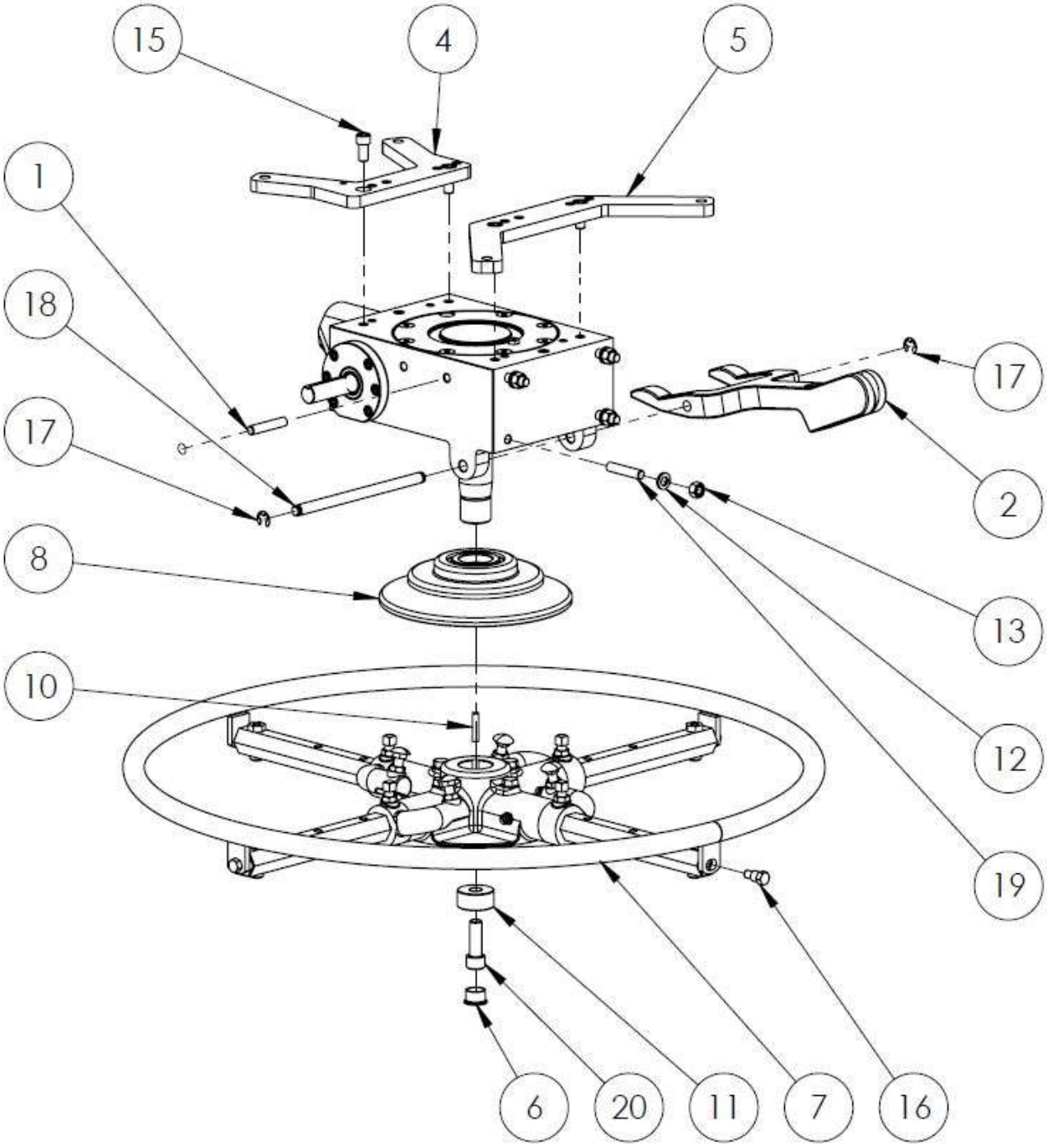


GENERAL ASSEMBLY: MEGA-T (CVT) – PARTS LIST 2

Item #	Part #	Description	QTY	Remarks
1	10208	KEY, 3/16” SQ. x 1 1/2” LG	1	6/8/2004
4	10608	KEY, 1/4" SQ. X 1-5/32” LG	1	6/8/2004
5	11535	SPACER, 1” DIA, .73” LG	1	BEFORE S/N 723425
6	14832	CVT DRIVE PULLEY, 1” BORE	1	BEFORE S/N 723425
7	14833	CVT DRIVEN PULLEY, 3/4" BORE	1	BEFORE S/N 723425
8	14834	CVT BELT	1	BEFORE S/N 723425
11	20448	GUARD RING, CHROME	1	6/8/2004
12	20231C 20231E 20365	HANDLE ASSEMBLY HANDLE ASSEMBLY, EUROPEAN HANDLE ASSEMBLY, PRO PITCH	1	6/8/2004
22	10270	HHCS 3/8-24 X 2-1/2” LG	1	BEFORE S/N 723425
23	10901	HEX NUT, 3/8-16	4	6/8/2004
24	14650	STUD, ENGINE MOUNT, 3/8-16 X 2” LG	4	6/8/2004
26	50026	WASHER, FLAT, 1/2”	4	6/8/2004
32	10009	WASHER, LOCK, 1/2”	4	6/8/2004
33	13781	HHCS 1/2-13 X 1” LG	4	6/8/2004
34	11043	WASHER, FLAT, 1/4"	4	6/8/2004
35	20194	HOIST HOOK	1	6/8/2004
36	11357	BELT GUARD REAR	1	6/8/2004
38	21085	BELT GUARD COVER	1	6/8/2004
39	12930	WASHER, FLAT, 7/16”	1	BEFORE S/N 723425
40	11894	HHCS 7/16-20 X 5” LG	1	BEFORE S/N 723425
41	11339	STUD, SELF-LOCKING, HANDLE MOUNT	4	6/8/2004
42	30031	HHCS, 1/4-20 X 1/2" LG	4	6/8/2004
43	10902	WASHER, LOCK, 3/8"	6	6/8/2004
46	10524	WASHER, LOCK, 1/4"	4	6/8/2004
47	10905	WASHER, FLAT, 3/8”	2	6/8/2004
48	30041	FHCS 5/16-24 X 3/4" LG	4	6/8/2004
49	13491	WASHER, LOCK, 7/16”	1	BEFORE S/N 723425
52	11112	MUFFLER CAP	1	6/8/2004
53	11115	SCREW, MUFFLER CAP	2	6/8/2004
	11800	OIL DRAIN HOSE ASSEMBLY	1	6/8/2004
	01109-B446MEGAT	DECAL KIT, B446 MEGA-T	1	
	01109-FAM-B	ROUND BARTELL DECAL	1	
60	15982	BELT	1	AFTER S/N 723425
61	10270	HHCS,3/8-24UNFx2 1/2"LG.	2	AFTER S/N 723425
62	10902	LOCKWASHER, 3/8"	2	AFTER S/N 723425
63	12930	WASHER, 7/16"	2	AFTER S/N 723425
64	11150	DRIVE CLUTCH 1" BORE	1	AFTER S/N 723425
65	31523	SPACER, 1"ID x 0.5"LG	1	AFTER S/N 723425
66	31524	BUSHING, 3/4"OD x 1"LG	1	AFTER S/N 723425
67	11152	DRIVEN PULLEY 3/4" BORE	1	AFTER S/N 723425
68	10104	SPACER, 5/16 (UNDER ENGINE)	4	AFTER S/N 723425

PARTS LIST 3 – WALK-BEHIND TROWELS

BASE UNIT ASSEMBLY DIAGRAM: B446

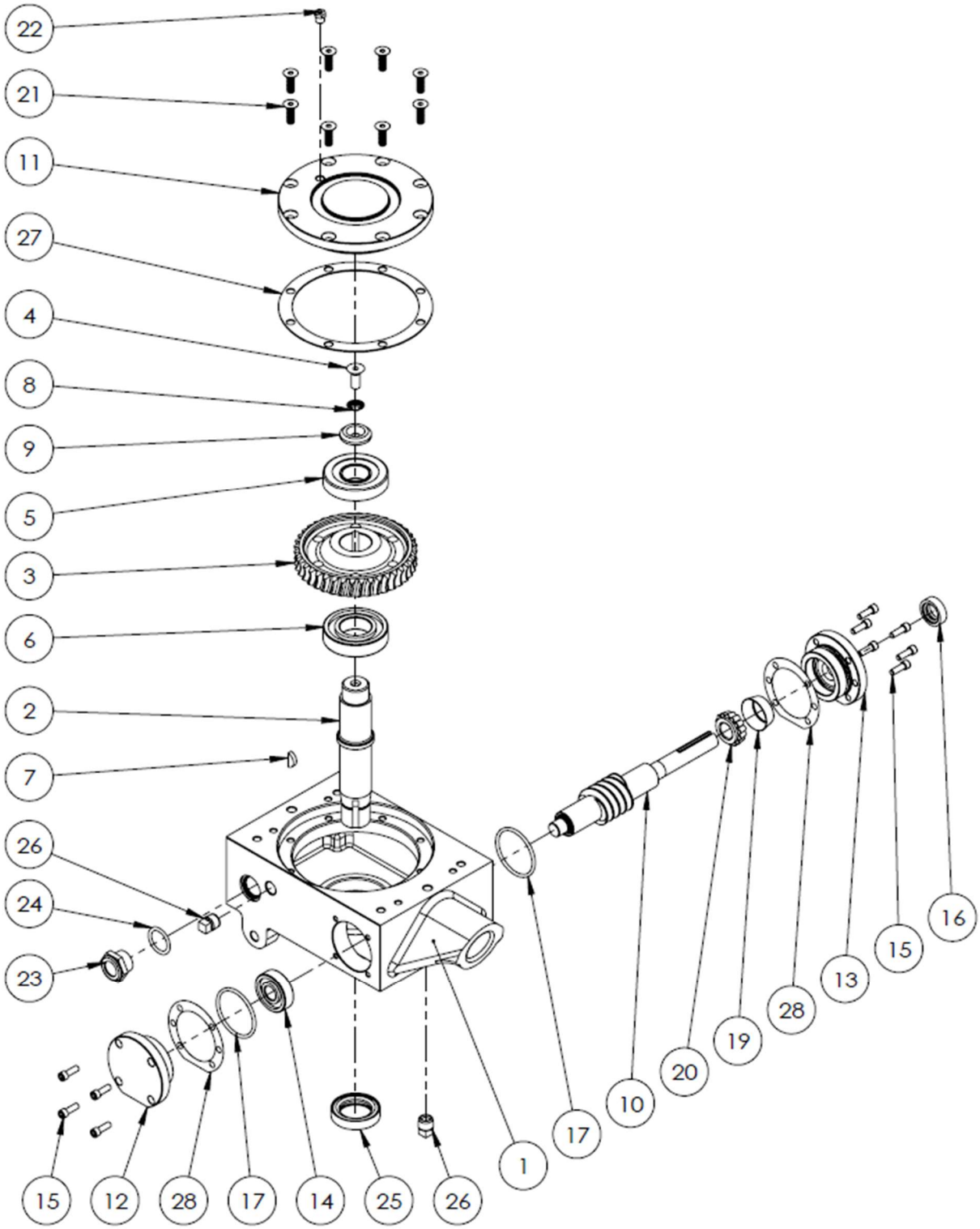


BASE UNIT ASSEMBLY: B446 – PARTS LIST 3

Item #	Part #	Description	QTY	Remarks
1	11029	STUD, 3/8-16 X 1-3/4" LG (NON-CVT ONLY)	1	
2	10311	YOKE ARM	1	
4	15346 15348	MOUNTING RAIL, FRONT MOUNTING RAIL, FRONT, MEGA-T	1	
5	15347 15349	MOUNTING RAIL, REAR MOUNTING RAIL, REAR, MEGA-T	1	
6	10823	CAP PLUG EC-12	1	
7	20442	STABILIZER RING, INNER	1	
8	20626	PRESSURE PLATE ASSEMBLY	1	
10	10608	KEY, 1/4" SQ. X 1-5/32” LG	1	
11	10804	RETAINER 33/64"	1	
12	10902	WASHER, LOCK, 3/8" DIA.	5	
13	10901	HEX NUT, 3/8"-16	4	
15	50001	SHCS 3/8-16 X 3/4" LG	4	
16	10442	HH SHOULDER BOLT 7/16" DIA	4	
17	10913	RETAINING RING	2	
18	10914	YOKE PIN	1	
19	11339	STUD, SELF-LOCKING, HANDLE MOUNT	4	
20	10802	SHCS 1/2-13 X 1-1/2" LG	1	

PARTS LIST 4: WALK-BEHIND TROWELS

GEARBOX ASSEMBLY DIAGRAM: 20928, 20977 (MEGA-T)

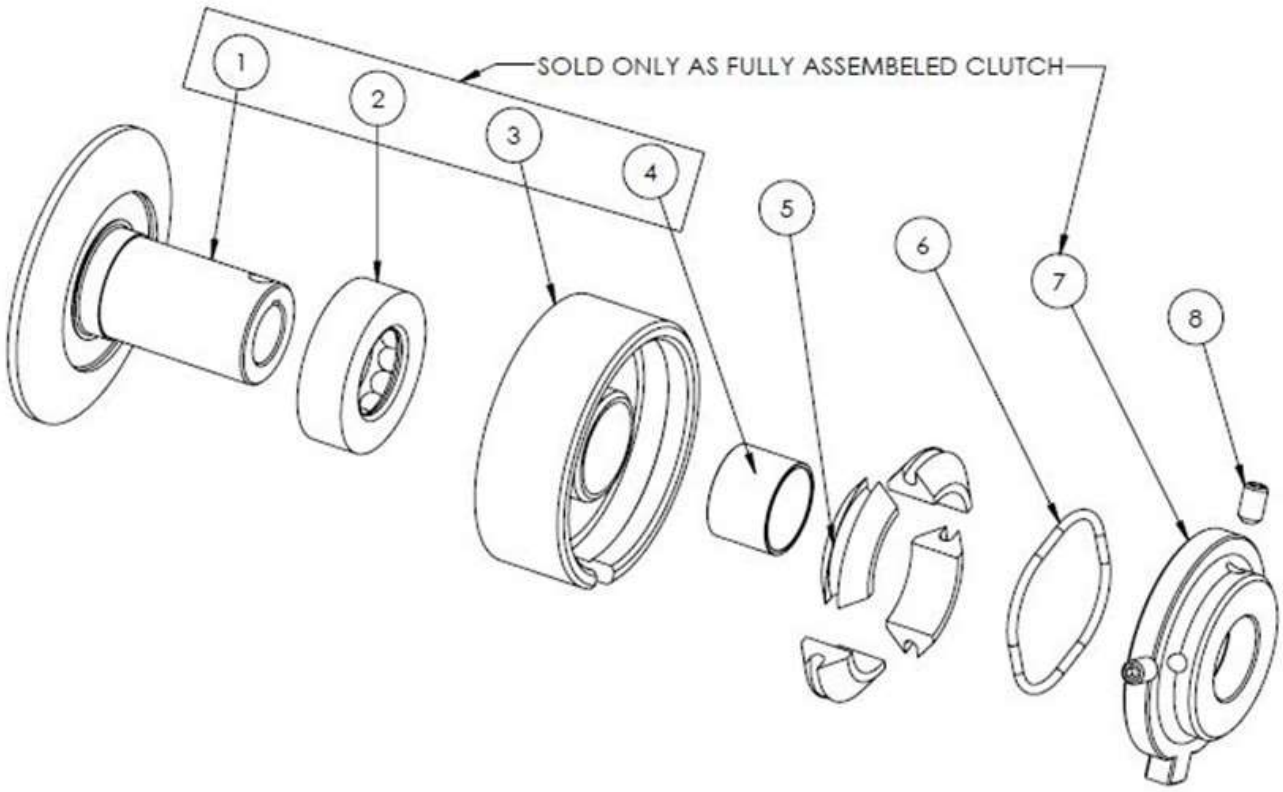


GEARBOX ASSEMBLY: 20928, 20977 (MEGA-T) - PARTS LIST 4

Item #	Part #	Description	QTY	Remarks
1	10928	GEARBOX, LARGE, MACHINED	1	09/11/2007
2	10607	MAIN SHAFT	1	09/07/2007
3	10605	LARGE BRONZE GEAR	1	09/11/2007
4	10601	FHCS, 3/8”-16UNC X 1” LG, GRADE 5	1	09/04/2007
5	10603	BEARING, TAPER	1	09/04/2007
6	14256	BEARING, SEALED BALL	1	07/28/2003
7	10609	WOODRUFF KEY 1/4" #21	1	09/04/2007
8	10637	LOCK WASHER, 3/8”, C’SUNK	1	09/04/2007
9	10613	PRESSURE WASHER	1	09/04/2007
10	10280 10281	COUNTERSHAFT SMALL (FOR 20928) COUNTERSHAFT LARGE (FOR 20977, MEGA-T)	1	10/05/2007
11	10929	GEARBOX COVER, LARGE	1	09/14/2007
12	10215	LARGE END CAP	1	09/04/2007
13	10231	LARGE FLANGE	1	09/10/2007
14	10203	BEARING, 6303	1	06/24/2008
15	10213	SHCS, 1/4"-20NC X 3/4" LG, GRADE 5, ZP	10	09/04/2007
16	10678	OIL SEAL	1	10/11/2014
17	10228	O RING, No. 227	2	06/24/2008
19	10230	BEARING CUP	1	06/24/2008
20	10229	BEARING CONE	1	06/24/2008
21	10903	FHCS, 5/16"-18UNC X 1" LG, GRADE 5, PLAIN	8	09/04/2007
22	10909	RELIEF VALVE	1	09/04/2007
23	10930	SIGHT PLUG	1	09/04/2007
24	10931	O RING, No. 213	1	09/04/2007
25	10610	OIL SEAL	1	09/04/2007
26	10911	DRAIN PLUG 3/8 NPT	2	09/04/2007
27	10933 10935	LARGE SHIM 0.003" LARGE SHIM 0.005"	1	09/04/2007
28	10209 10212 10210	SHIM 0.003" SHIM 0.005" SHIM 0.010"	1	09/04/2007

PARTS LIST 5– WALK-BEHIND TROWELS

B446 CLUTCH ASSEMBLY DIAGRAM: 21029-2*



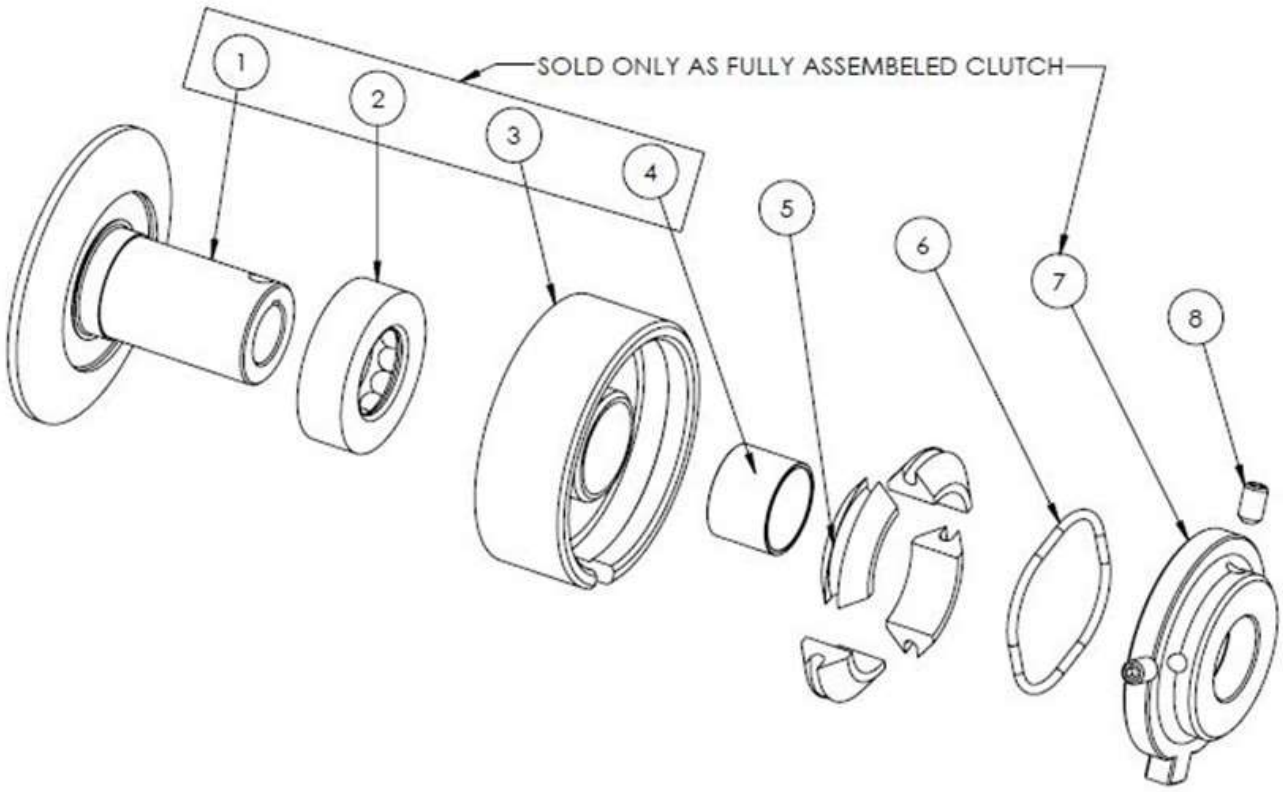
B446 CLUTCH ASSEMBLY: 21029-2* (1" SHAFT) – PARTS LIST 5

Item #	Part #	Description	QTY	Remarks
1	11045	SPINDLE	1	For Machines S/N:740874 and below
2	11044	BEARING	1	
3	21046	DRUM W/BUSHING	1	
4	11012	BUSHING	1	
5	11014	WEIGHT (SHOE)	4	
6	10759	SPRING	1	
7	11015	FACE PLATE	1	
8	50117	SET SCREW 5/16 – 18 UNC	2	

* Machines with S/N: 740874 and below.

PARTS LIST 6 – WALK-BEHIND TROWELS

B446 CLUTCH ASSEMBLY DIAGRAM: 21049*



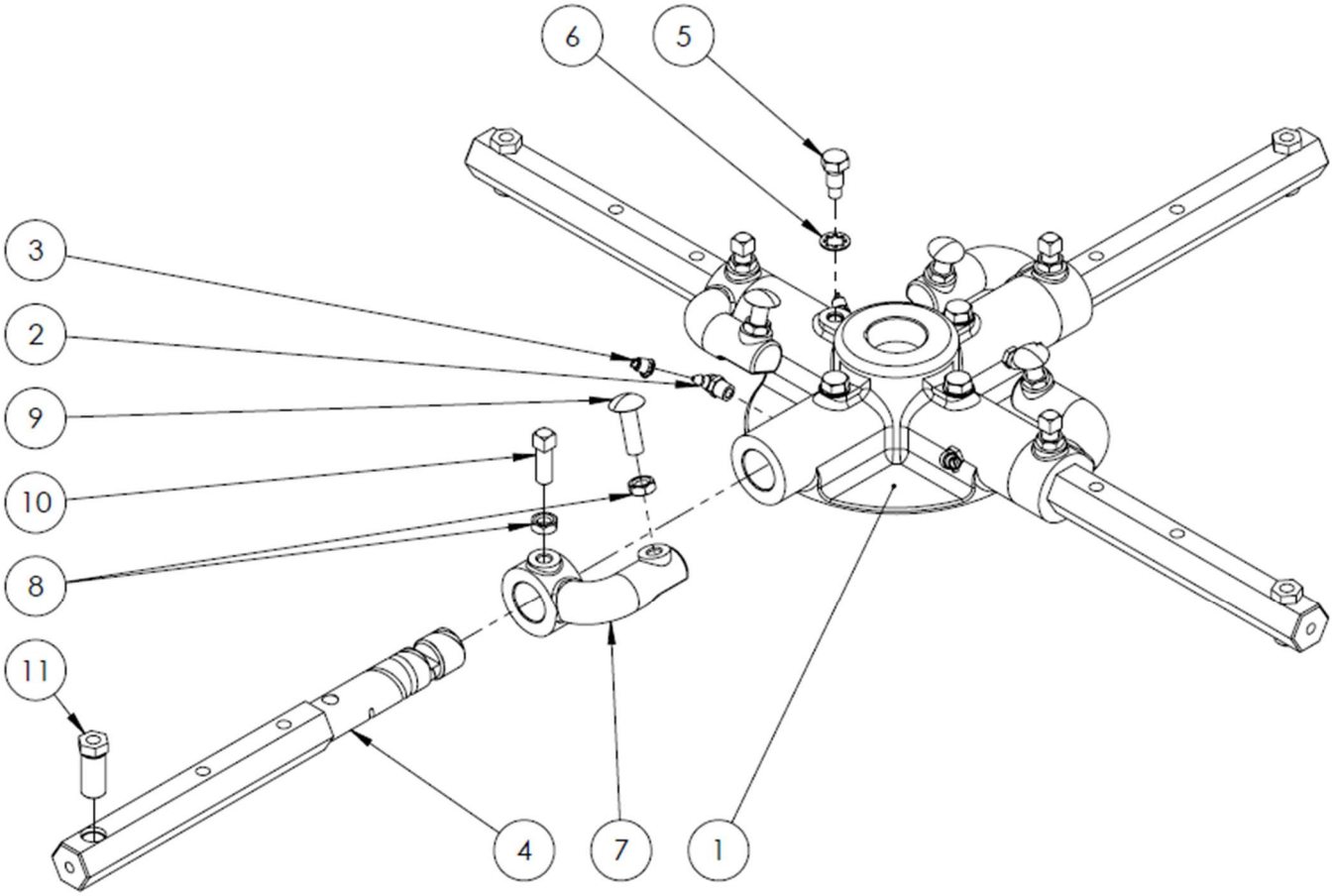
B446 CLUTCH ASSEMBLY: 21049* (1” SHAFT) – PARTS LIST 6

Item #	Part #	Description	QTY	Remarks
1	11045	SPINDLE	1	For Machines S/N:740874 and above
2	11044	BEARING	1	
3	12051	DRUM	1	
4	11012	BUSHING	1	
5	12052	WEIGHT (SHOE)	4	
6	12053	SPRING	1	
7	11015	FACE PLATE	1	
8	50117	SET SCREW 5/16 – 18 UNC	2	

* Machines with S/N: 740874 and above.

PARTS LIST 7 – WALK-BEHIND TROWELS

SPIDER PLATE ASSEMBLY DIAGRAM: 20820

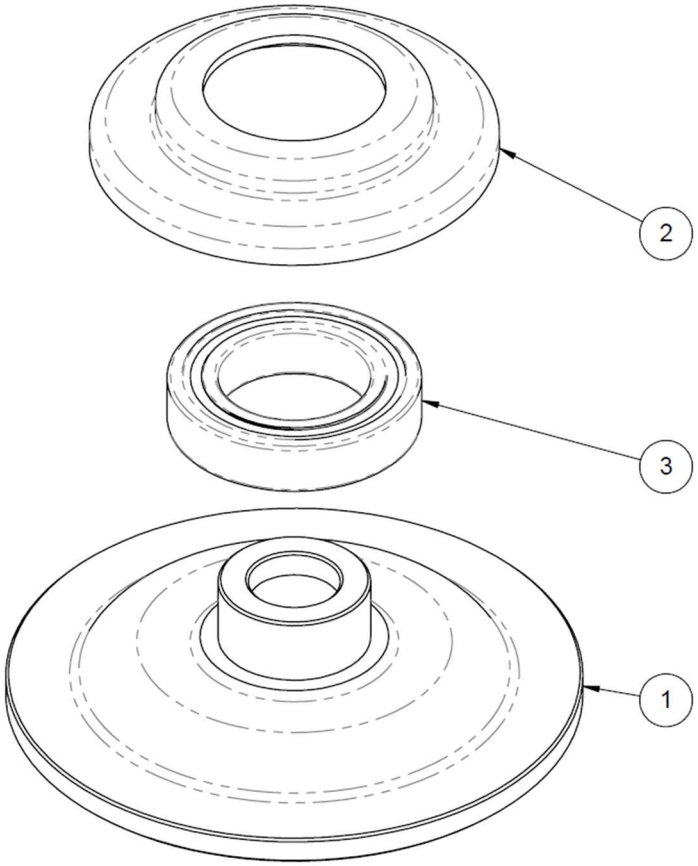


SPIDER PLATE ASSEMBLY: 20820 – PARTS LIST 7

Item #	Part #	Description	QTY	Remarks
1	10820	SPIDER PLATE LG	1	02/25/2010
2	10801	GREASE FITTING, 65 DEG, 1/8 NPT	4	02/25/2010
3	10822	CAP GREASE, NIPPLE, 1/8 ALEMITE	4	02/25/2010
4	10405	TROWEL ARM (LARGE)	4	02/25/2010
5	10806	HHCS, 3/8-16UNC X 13/16 DOG POINT BOLT	4	02/25/2010
6	10805	LOCKWASHER, 3/8, EXTERNAL TOOTH	4	02/25/2010
7	10819	LIFT LEVER (LARGE)	4	02/25/2010
8	10808	HEX JAM NUT 3/8-16 UNC	8	02/25/2010
9	10807	CARRIAGE BOLT, 3/8-16x1 1/4"LG	4	02/25/2010
10	10809	SHSS, 3/8-16 x 1" LG. STEEL	4	02/25/2010
11	10404	ADJUSTING SCREW 1-1/4"LG	4	02/25/2010

PARTS LIST 8 – WALK-BEHIND TROWELS

PRESSURE PLATE ASSEMBLY DIAGRAM: 20626

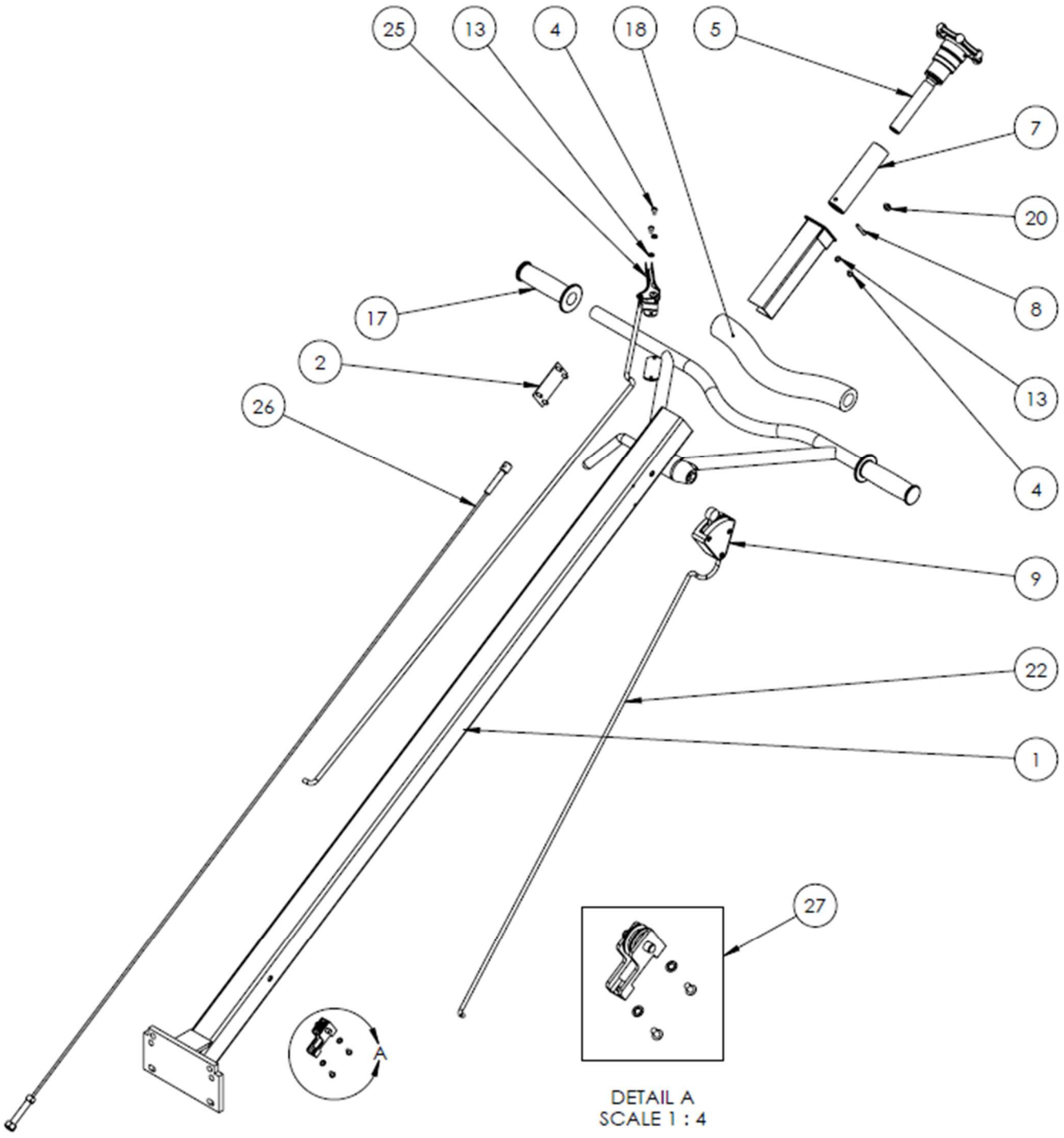


PRESSURE PLATE ASSEMBLY: 20626 – PARTS LIST 8

Item #	Part #	Description	QTY	Remarks
1	10659	PRESSURE PLATE, LARGE	1	11/16/2007
2	10667	PRESSURE PLATE CAP, LARGE	1	09/12/2007
3	10663	THRUST BEARING, LARGE	1	11/16/2007

PARTS LIST 9: WALK-BEHIND TROWELS

HANDLE ASSEMBLY DIAGRAM: 20231C FINE PITCH

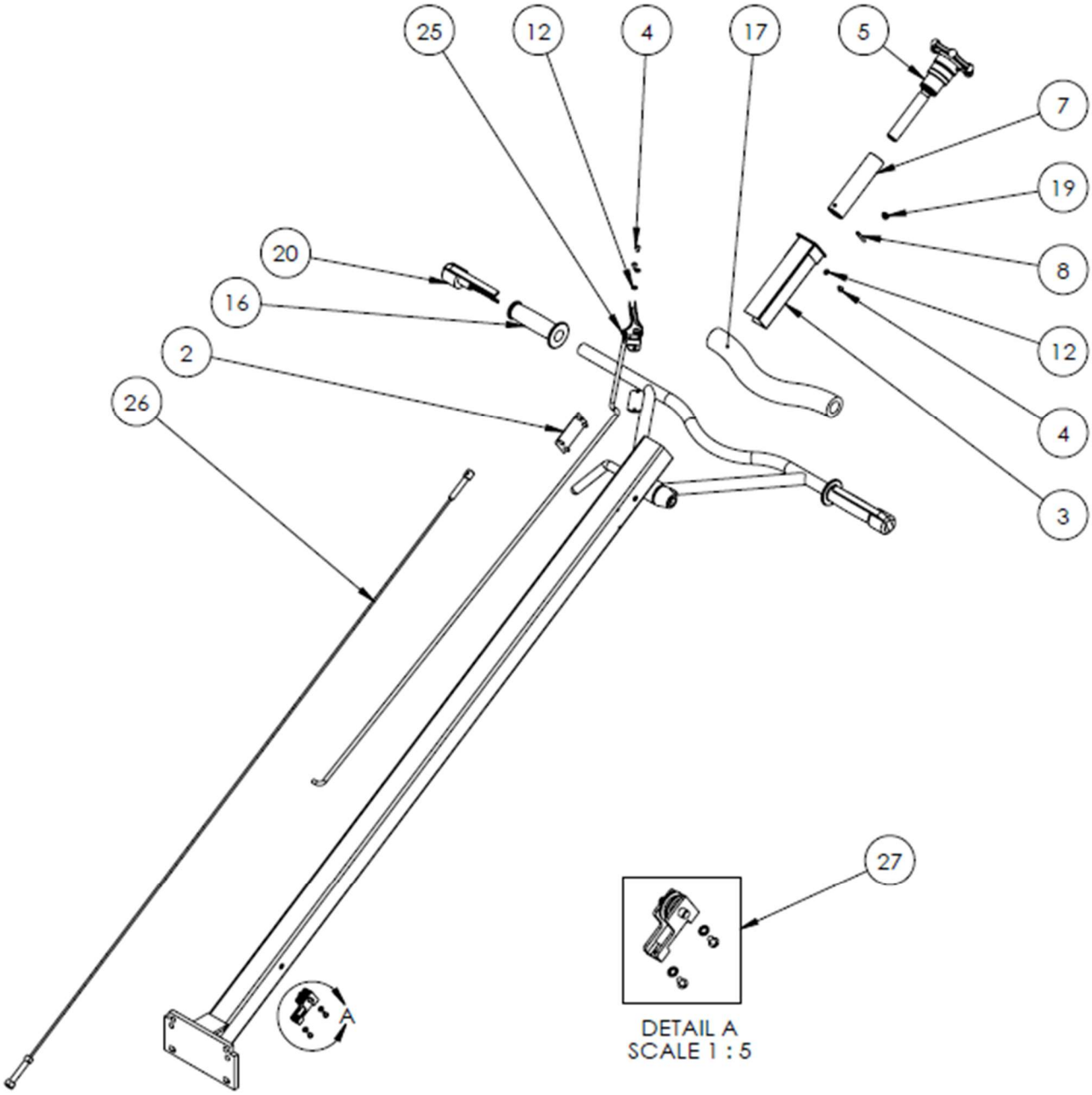


HANDLE ASSEMBLY: 20231C FINE PITCH – PARTS LIST 9

Item #	Part #	Description	QTY	Remarks
2	20113	SIDE COVER	1	
3	20112	PITCH INSERT	1	
4	21728	RHMS, M5-0.8 X 8MM LG	5	
5	21714	HAND KNOB ASSEMBLY	1	
7	21722	THREADED SLIDE BUSHING	1	
8	21724	PIN 3/16"DIA X 1-1/4"LG	1	
9	21847	SAFETY SWITCH	1	
13	10703	LOCK WASHER, INTERNAL TOOTH, #10	5	
17	21717	HANDLE GRIP	2	
18	21721	CROSSBAR PAD	1	
20	21725	M6-1.0 X 6MM LG	1	
22	20703	75” WIRE ASSEMBLY	1	
25	10508	THROTTLE LEVER ASSEMBLY, W/ CABLE	1	
26	20332	PITCH CONTROL CABLE, 54 17/32” HOLE TO END OF LUG	1	
27	20288	PULLEY ASSEMBLY	1	
	10525-SQPRO	BARTELL DECAL KIT	1	

PARTS LIST 10: WALK-BEHIND TROWELS

HANDLE ASSEMBLY DIAGRAM: 20231E FINE PITCH EUROPEAN SPEC.

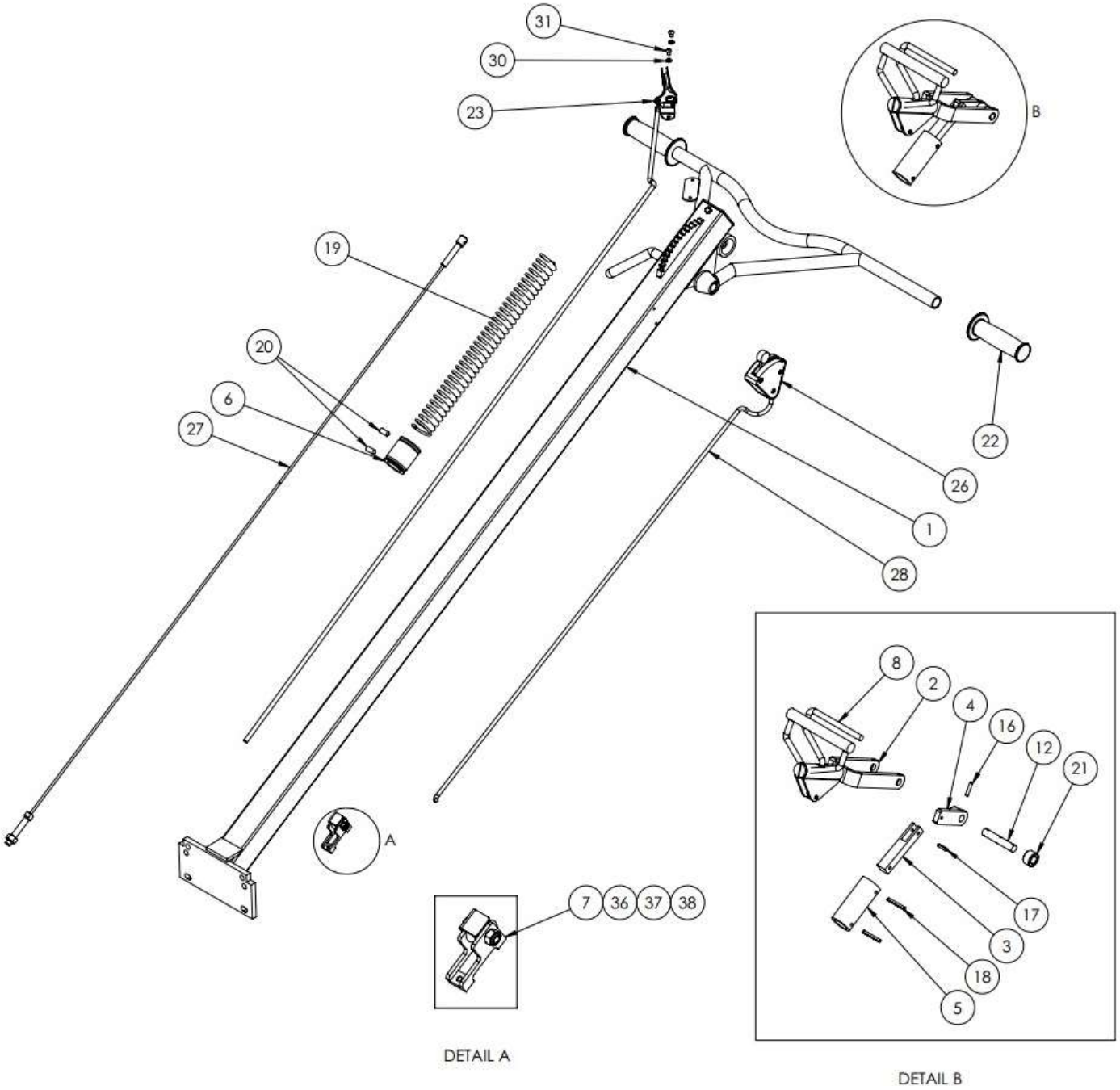


HANDLE ASSEMBLY: 20231E FINE PITCH EUROPEAN SPEC. – PARTS LIST 10

Item #	Part #	Description	QTY	Remarks
2	20113	SIDE COVER	1	
3	20112	PITCH INSERT	1	10/01/2014
4	21728	RHMS, M5-0.8 X 8MM LG	5	10/01/2014
5	21714	HAND KNOB ASSEMBLY	1	10/01/2014
7	21722	THREADED SLIDE BUSHING	1	
8	21724	PIN 3/16"DIA X 1-1/4"LG	1	10/01/2014
12	10703	LOCK WASHER, INTERNAL TOOTH, #10	5	10/01/2014
16	21717	HANDLE GRIP	2	
17	21721	CROSSBAR PAD	1	
19	21725	M6-1.0 X 6MM LG	1	10/01/2014
20	11852	SAFETY LEVER, PIGTAIL WIRES	2	10/01/2014
25	10508	THROTTLE LEVER ASSEMBLY, W/ CABLE	1	10/01/2014
26	20332	PITCH CONTROL CABLE, 54 17/32” HOLE TO END OF LUG	1	
27	20288	PULLEY ASSEMBLY	1	10/01/2014
		EURO WIRE ASSEMBLY	1	10/01/2014
	10525-SQPRO	BARTELL DECAL KIT	1	

PARTS LIST 11: WALK-BEHIND TROWELS

HANDLE ASSEMBLY DIAGRAM: 20365 PRO PITCH

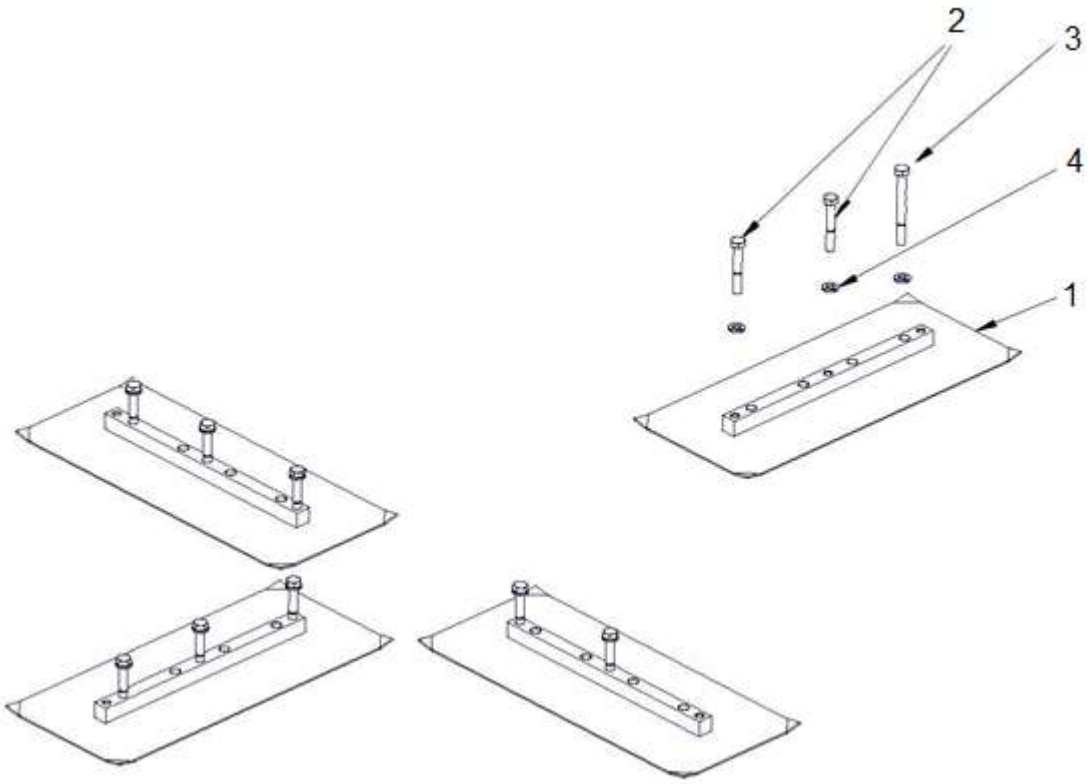


HANDLE ASSEMBLY: 20365 PRO PITCH – PARTS LIST 11

Item #	Part #	Description	QTY	Remarks
1	20365	PRO PITCH HANDLE ASSM, COMPLETE	1	
2	23250	PRO PITCH LEVER ASSM	1	
3	23256	CONNECTING ROD 1	1	
4	23255	CONNECTING ROD 2	1	
5	23257	ALUMINUM BUSHING	1	
6	23258	SPRING STOP	1	
7	20288	PULLEY ASSEMBLY	1	
8	23251	LEVER	1	
12	23254	PIVOT PIN	1	
16	21806	SPRING PIN, M5 X 24MM	3	
17	21995	SPRING PIN, M5 X 20MM	1	
18	21994	SPRING PIN, M5 X 40MM	2	
19	23262	SPRING	1	
20	11762	SHSS, M8-1.25x20MM LG. CONE PT.	2	
21	23261	SPACER, 25x14x15	2	
22	21717	HANDLE GRIP	2	
23	10508	THROTTLE LEVER	1	
26	21847	SAFETY SWITCH	1	
27	20335	PITCH CONTROL CABLE 1331MM HOLE TO END OF LUG	1	
28	20703	WIRE ASSEMBLY	1	
30	10703	LOCKWASHER, #10	2	
31	21728	PHMS, M5-0.8 X 8MM LG	2	
36	20293	CABLE GUIDE	1	
37	11617	LOCKNUT, M8-1.25	1	
38	10407M	HHCS, M8-1.25x30MM LG.	1	

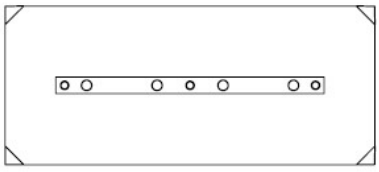
PARTS LIST 12: WALK-BEHIND TROWELS

BLADE KIT ASSEMBLY DIAGRAM

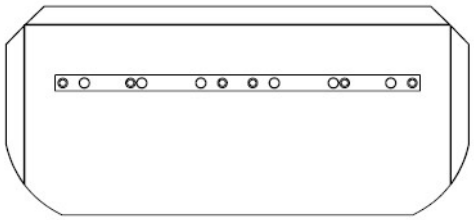


B446 BLADES, METRIC – PARTS LIST 12

Item #	Part #	Description	QTY	Remarks
1	-	TROWEL BLADE	4	08/04/2007
2	10452	HEX HD. CAP SCREW, M8-1.25 X 40MM	8	08/04/2007
3	10453	HEX HD. CAP SCREW, M8-1.25 X 50MM	4	08/04/2007
4	11614	LOCK WASHER, 5/16”	12	08/04/2007



STANDARD FINISHING BLADE



STANDARD COMBINATION BLADE

Part #	Dimensions	Part #	Dimensions
20410	6” x 18”	20480	8” x 18”

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CONTRACTOR PROVEN EQUIPMENT SINCE 1946

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