



**BARTELL
GLOBAL**

**PARTS
BOOK**

WALK-BEHIND TROWELS

BC436



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Curr Rev. – 13

www.BartellGlobal.com

CANADA

170 Traders Blvd E
Mississauga, Ontario L4Z 1W7
TEL (647) 953-4100 FAX (647) 953-4101

KENTUCKY

4701 Allmond Ave
Louisville, Kentucky 40209
TEL (425) 405-9100 FAX (425) 405-9101

UK

Honeyholes Lane
Dunholme, Lincoln, UK LN2 3SU
TEL 01673 860709 FAX 01673 861119

NEW JERSEY

200 Commerce Drive, Unit A
Freehold, New Jersey 07728
TEL (848) 225-8100 FAX (848) 225-8101

**ORIGINAL LANGUAGE OPERATING MANUAL FOR
BARTELL RIDE-ON TROWELS**

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ADDRESS INQUIRIES OR REFERENCE PERMISSIONS CARE OF:

Bartell Global, 170 Traders Blvd E., Mississauga, Ontario, Canada, L4Z 1W7

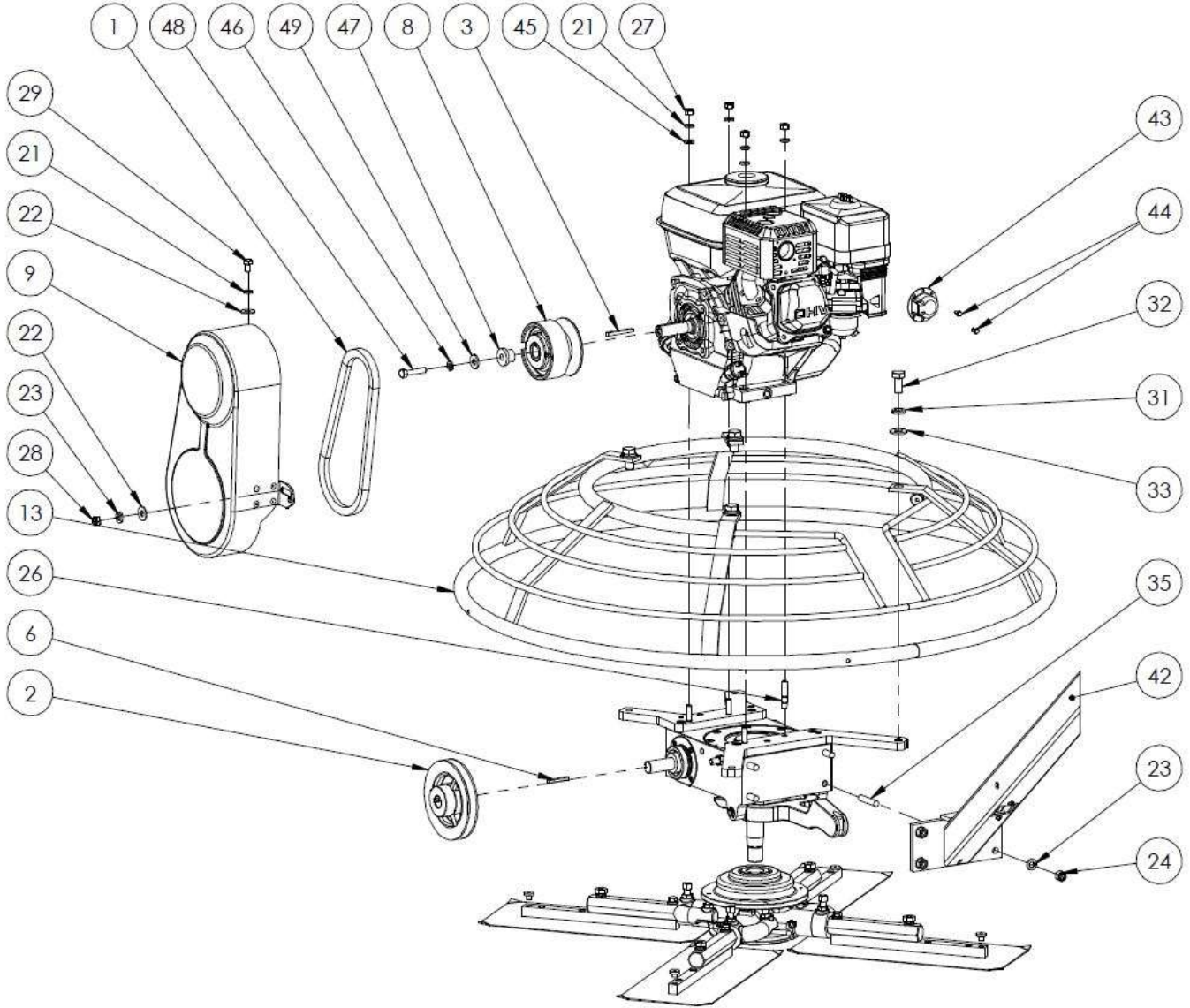
REV.	DATE	DESCRIPTION	APPROVED BY:
01	12/30/16	Gearbox, spider plate and handles pitch control cables part numbers update	AL
02	04/17/17	Part Number for trowel arm updated	AN
03	05/08/17	Added folding handle and Easy Pitch parts list and diagram, rearranged the order of parts list, added 20288 – Handle pulley assembly to handle parts lists. Updated General Assembly, Address Update, changed handle asm p/n	AN
04	10/17	Parts list 9 changed to reflect correct P/N's	AN
05	02/18	Added decal part numbers, updated handle parts/dwg	AN
06	08/18	Parts list 3, item 10. P/N: 21784 was 10279	AN
07	01/19	Updated P/N's on parts list 10	AN
08	07/19	Updated Easy Pitch P/N's	AN
09	09/19	Updated Address	AN
10	08/20	Pro Pitch Added	AN
11	04/22	Updated P/N Descriptions	AN
12	05/23	Updated logos and update Pro Pitch Handle	AN
13	04/24	Updated Clutch Part Number	AN

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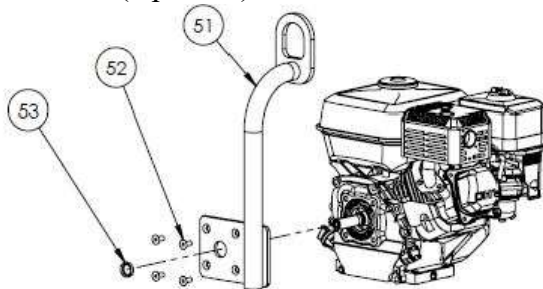
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PARTS LIST 1 – WALK-BEHIND TROWELS

GENERAL ASSEMBLY DIAGRAM: BC436



Hoist Hook (Optional)

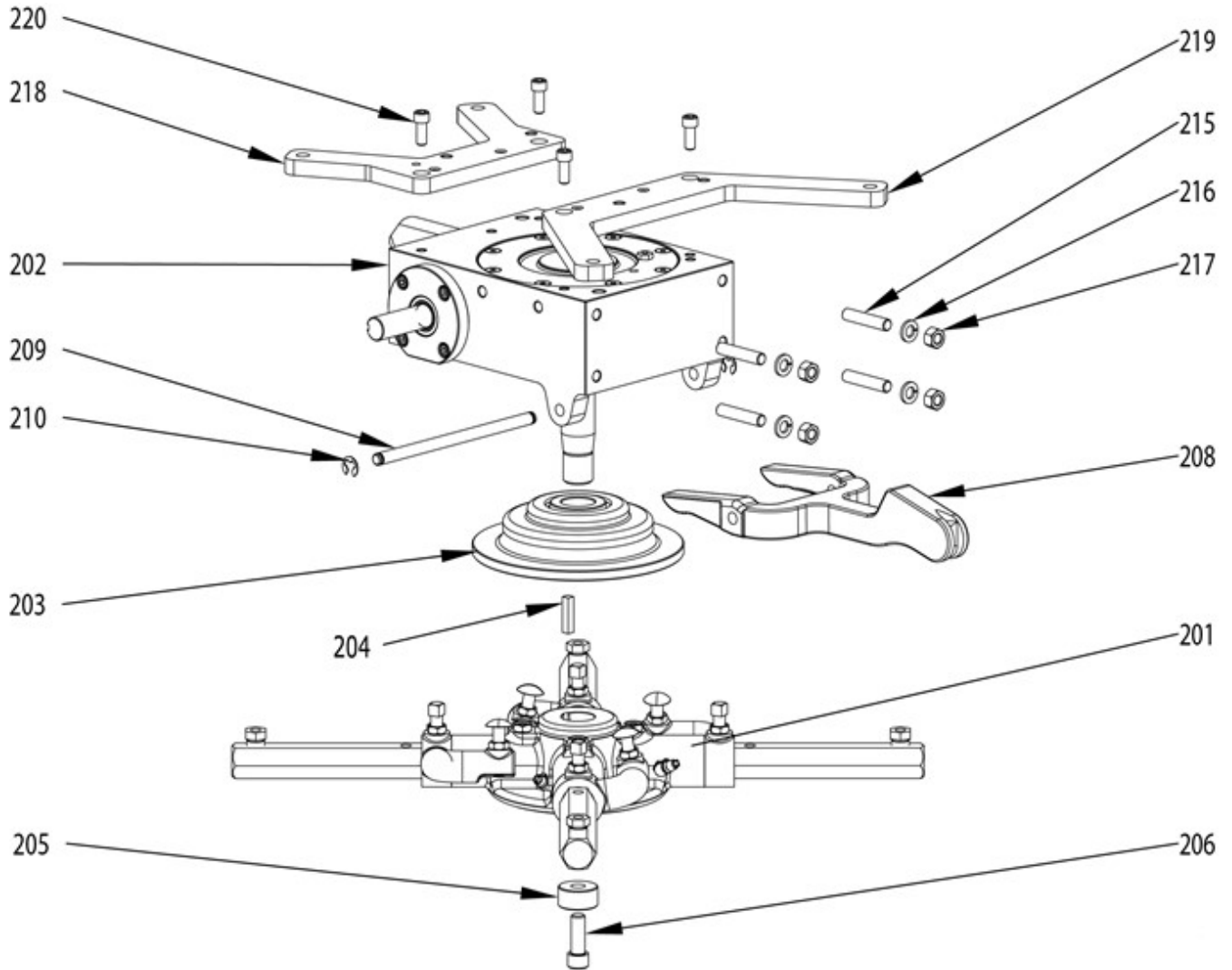


GENERAL ASSEMBLY: BC436 - PARTS LIST 1

Item #	Part #	Description	QTY	Remarks
1	10752 (GX160) 11047 (GX270)	BELT B26 BELT B28	1	7/20/2014
2	14285 (GX270)	SHEAVE, MB58 X 3/4	1	7/20/2014
3	10206 (GX160) 11003 (GX270)	KEY 3/16 SQ X 1-7/8" LG KEY 1/4 SQ X 2" LG	1	7/20/2014
6	10208	KEY 3/16 SQ X 1/2" LG	1	7/20/2014
8	21047 (GX160) 21049 (GX270)	CLUTCH, 3/4" BORE CLUTCH, 1" BORE	1	4/11/2024
9	21067-1	BELT GUARD	1	7/20/2014
13	21813 20447	GUARD RING, BLUE GUARD RING, CHROME	1	7/20/2014
21	11614	WASHER, LOCK, M8	1	7/20/2014
22	11667	WASHER, FLAT, M8	2	7/20/2014
23	31215	WASHER, LOCK M10	1	7/20/2014
24	10317	LOCKNUT 3/8"-16UNC	4	7/20/2014
26	11670 (GX160) 14227 (GX270)	STUD, M8-1.25 X 35MM STUD, M10-1.5 X 40MM	4	7/20/2014
27	11615 (GX160) 11622 (GX270)	HEX NUT, M8-1.25 HEX NUT, M10-1.5	4	7/20/2014
28	11622	HEX NUT, M10-1.5	1	7/20/2014
29	10999	HHCS, M8-1.25 X 20MM LG	1	7/20/2014
31	10735	WASHER, LOCK, M12	4	7/20/2014
32	11900	HHCS, M12-1.75 X 25MM LG	4	7/20/2014
33	14267	WASHER, FLAT, M12	4	7/20/2014
35	11339	STUD, SELF-LOCKING, 3/8-16 X 1-3/4" LG	4	7/20/2014
42	20230C 20230E 20229C 20360	HANDLE ASSEMBLY, FINE PITCH HANDLE ASSEMBLY, EUROPEAN SPEC. HANDLE ASSEMBLY, FOLDING HANDLE HANDLE ASSEMBLY, PRO PITCH	1	7/20/2014
43	11112	MUFFLER CAP	1	7/20/2014
44	11115	SCREW, MUFFLER CAP	2	7/20/2014
46	10402 (GX160) N/A (GX270)	LOCKWASHER, 5/16", MEDIUM SPLIT -	1 -	7/20/2014
47	20289 (GX160) N/A (GX270)	CLUTCH SLEEVE -	1 -	7/20/2014
48	981045 (GX160) 993480 (GX160) N/A (GX270)	HHCS, 5/16-24NFx1-1/2" LG HHCS, 5/16-24UNF X 1-3/4" LG (HOIST HOOK)	1	7/20/2014
49	10919 (GX160) N/A (GX270)	WASHER, FLAT, 5/16"DIA -	4	7/20/2014
51	20189 (GX160) 20171 (GX270)	HOIST HOOK (OPTIONAL)	1	7/20/2014
52	30041	FHSCS, 5/16"-24 X 3/4" (WITH HOIST HOOK)	4	7/20/2014
53	11254 (GX160) N/A (GX270)	CLUTCH SPACER (WITH HOIST HOOK)	1	7/20/2014
	01109-BC436-1	DECAL KIT, BC436	1	
	01109-FAM-B	ROUND BARTELL DECAL	1	

PARTS LIST 2 – WALK-BEHIND TROWELS

BASE UNIT ASSEMBLY DIAGRAM: BC436

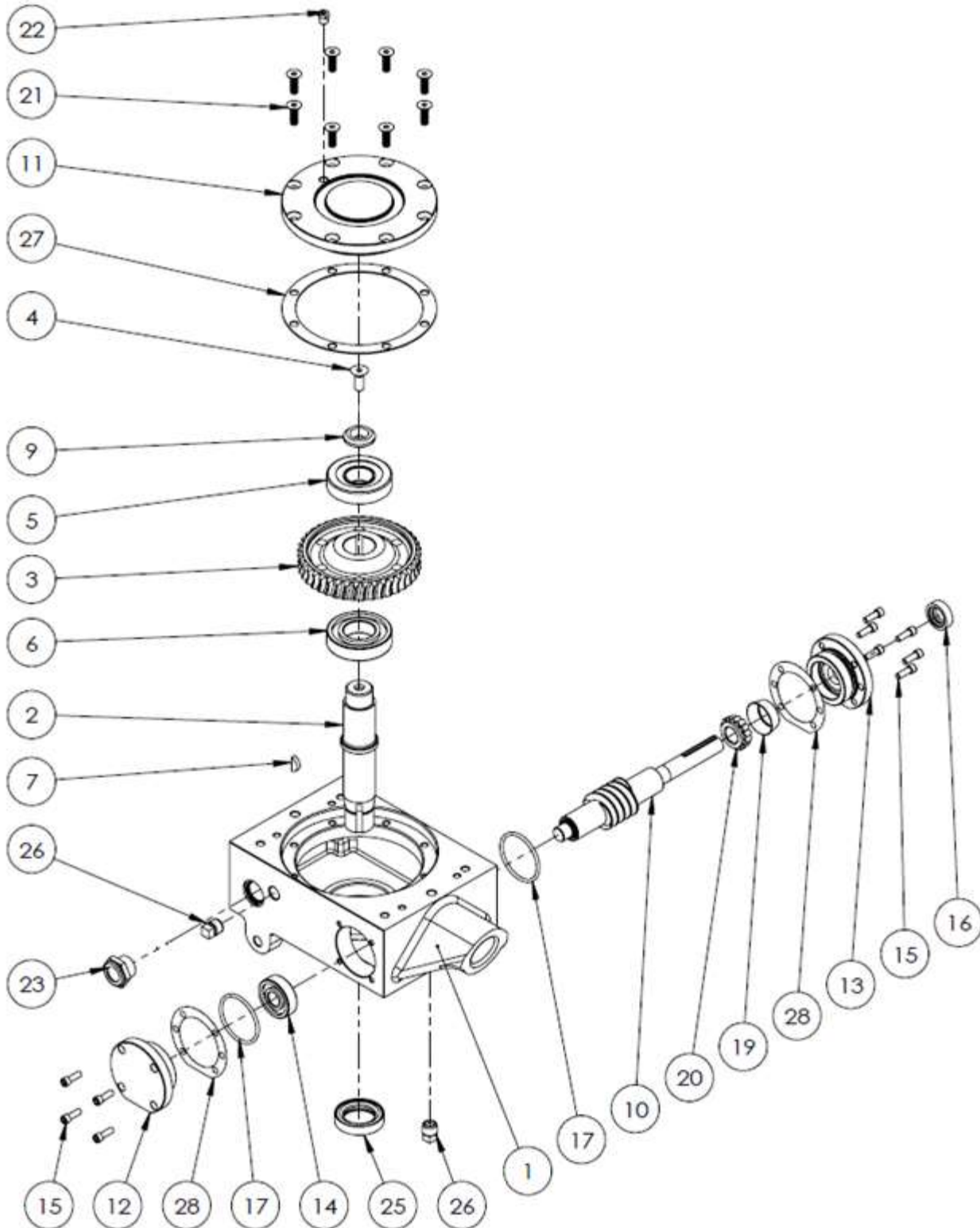


BASE UNIT ASSEMBLY: BC436 - PARTS LIST 2

Item #	Part #	Description	QTY	Remarks
201	21814	SPIDER PLATE ASSEMBLY (SEE PARTS LIST 4)	1	7/20/2014
202	21815	GEARBOX ASSEMBLY (SEE PARTS LIST 3)	1	7/20/2014
203	20627	PRESSURE PLATE ASSEMBLY (SEE PARTS LIST 5)	1	7/20/2014
204	11690	KEY, 6MM SQ x 30MM LG	1	7/20/2014
205	10814	SPIDER PLATE RETAINER	1	7/20/2014
206	21799	SHCS, M10 - 1.5 X 30MM LG	1	7/20/2014
208	10312	YOKE ARM	1	7/20/2014
209	21818	YOKE PIN	1	7/20/2014
210	21819	RETAINING RING	2	7/20/2014
215	14227	STUD, M10 - 1.5 x 40MM LG	4	7/20/2014
216	11621	WASHER, LOCK, M10	4	7/20/2014
217	11622	HEX NUT, M10-1.5	4	7/20/2014
218	15344-1	MOUNTING RAIL, FRONT	1	7/20/2014
219	15345-1	MOUNTING RAIL, REAR	1	7/20/2014
220	31106	SHCS, M8 - 1.25 x 20	4	7/20/2014

PARTS LIST 3 – WALK-BEHIND TROWELS

GEARBOX ASSEMBLY DIAGRAM: 21815

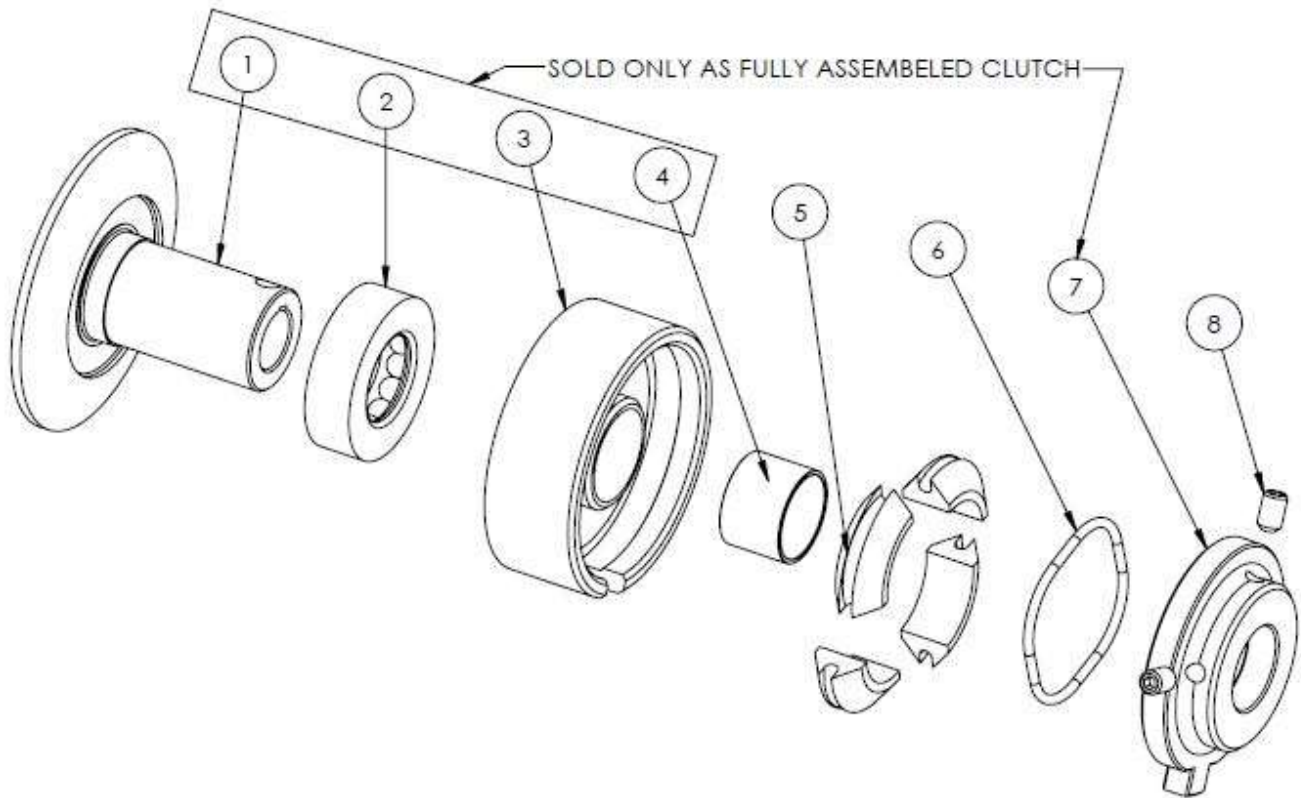


GEARBOX ASSEMBLY: 21815 - PARTS LIST 3

Item #	Part #	Description	QTY	Remarks
1	21821	GEARBOX HOUSING	1	07/20/2014
2	21782	MAIN SHAFT	1	07/20/2014
3	21781	MAIN GEAR	1	07/20/2014
4	10772	FHSCS, M10-1.5 x 25MM (LH)	1	07/20/2014
5	10614	BEARING	1	07/20/2014
6	21786	BEARING	1	07/20/2014
7	10769	WOODRUFF KEY	1	07/20/2014
9	21734	PRESSURE WASHER	1	07/20/2014
10	21784	COUNTERSHAFT	1	07/20/2014
11	21780	GEARBOX COVER	1	07/20/2014
12	21785	END CAP	1	07/20/2014
13	21783	FLANGE	1	07/20/2014
14	21794	BEARING	1	07/20/2014
15	31135	SHCS, M6-1.0 x 16MM	8	07/20/2014
16	21749	OIL SEAL	1	07/20/2014
17	10227	SM O-RING	2	07/20/2014
19	10744	BEARING CUP	1	07/20/2014
20		BEARING CONE		
21	31135	SHCS, M6-1.0 X 15MM	8	07/20/2014
22	21736	RELIEF VALVE	1	07/20/2014
23	10930	SIGHT PLUG	1	07/20/2014
25	21788	OIL SEAL	1	07/20/2014
26	21747	PLUG	2	07/20/2014
27	21840-1	GASKET, COVER, 0.1MM	A/R	07/20/2014
	21840-2	GASKET, COVER, 0.2MM		
28	21841-1	GASKET, FLANGE, 0.1MM	A/R	07/20/2014
	21841-2	GASKET, FLANGE, 0.2MM		

PARTS LIST 4– WALK-BEHIND TROWELS

BC436 CLUTCH ASSEMBLY DIAGRAM: 21027-2*, 21029-2**



BC436 CLUTCH ASSEMBLY: 21027-2* (3/4" SHAFT), 21029-2** (1" SHAFT) – PARTS LIST 4

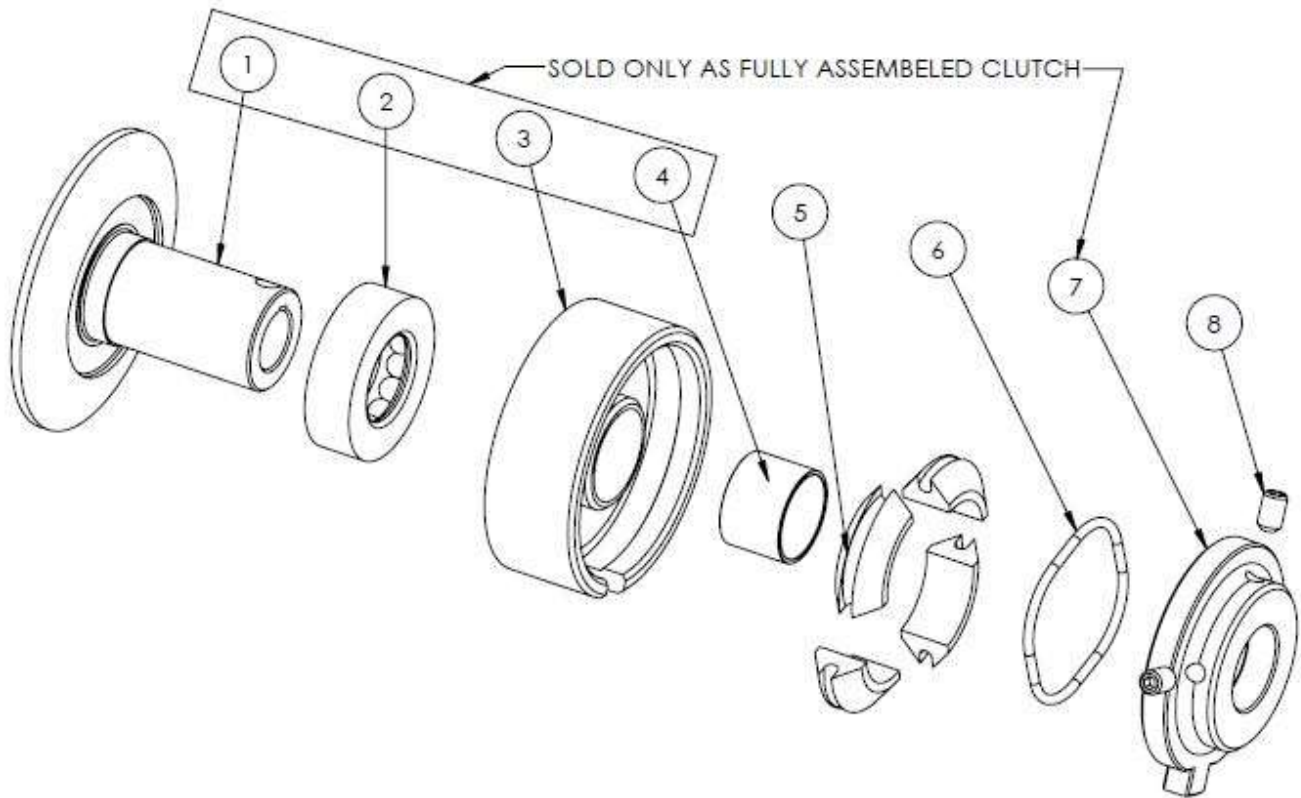
Item #	Part #	Description	QTY	Remarks
1	11484 (3/4" SHAFT) 11045 (1" SHAFT)	SPINDLE	1	For Machines S/N:740783 and below
2	11044	BEARING	1	
3	21046	DRUM W/BUSHING	1	
4	11012	BUSHING	1	
5	11014	WEIGHT (SHOE)	4	
6	10759	SPRING	1	
7	11015	FACE PLATE	1	
8	50117	SET SCREW	2	

*Machines with S/N: 740783 and below.

**Machines with S/N: 740874 and below.

PARTS LIST 5 – WALK-BEHIND TROWELS

BC436 CLUTCH ASSEMBLY DIAGRAM: 21047*, 21049**



BC436 CLUTCH ASSEMBLY: 21047* (3/4" SHAFT), 21049** (1" SHAFT) – PARTS LIST 5

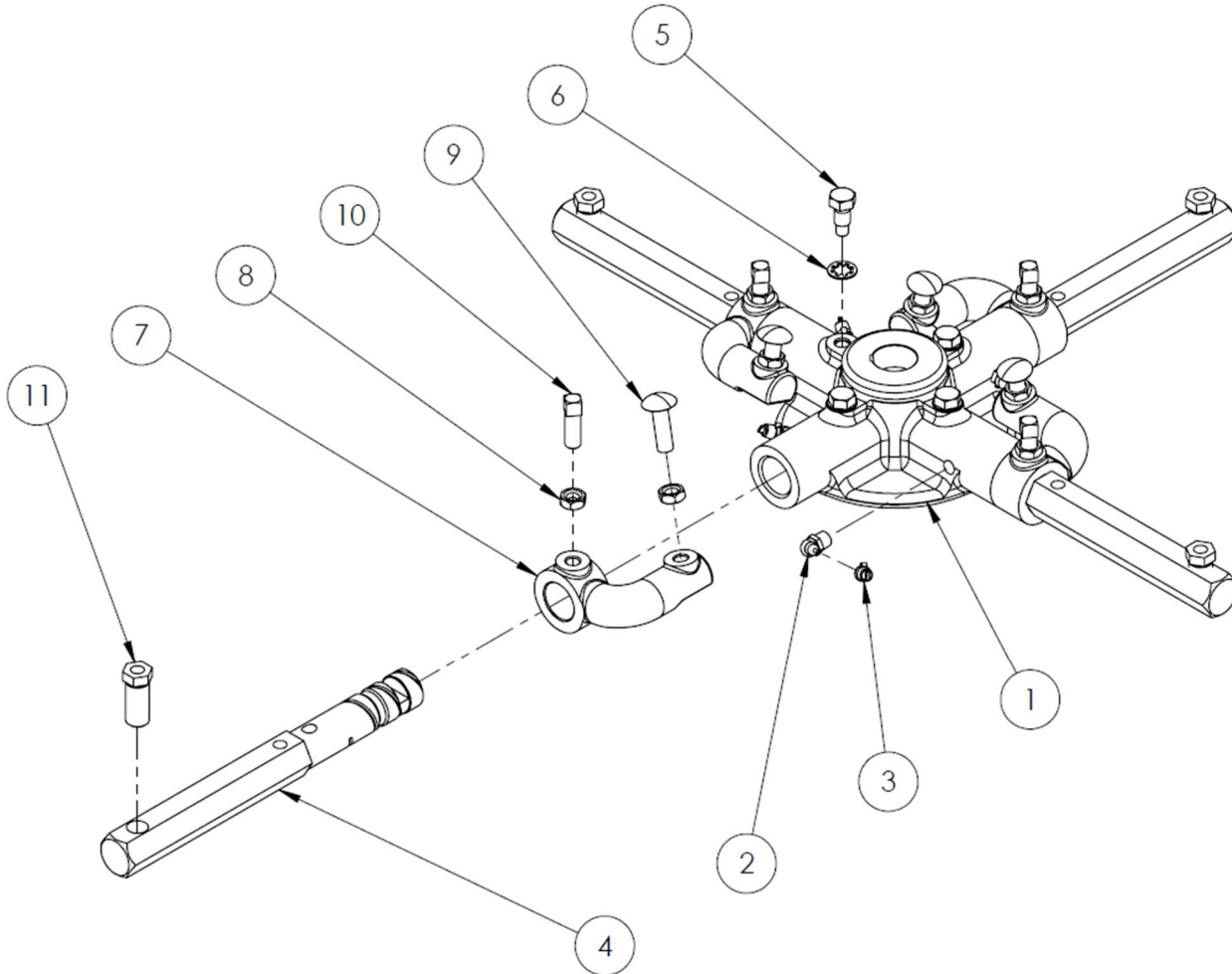
Item #	Part #	Description	QTY	Remarks
1	11484 (3/4" SHAFT) 11045 (1" SHAFT)	SPINDLE	1	For Machines S/N:740783 and above
2	11044	BEARING	1	
3	12051	DRUM	1	
4	11012	BUSHING	1	
5	12052	WEIGHT (SHOE)	4	
6	12053	SPRING	1	
7	11015	FACE PLATE	1	
8	50117	SET SCREW	2	

*Machines with S/N: 740783 and above.

**Machines with S/N: 740874 and above.

PARTS LIST 6 – WALK-BEHIND TROWELS

SPIDER PLATE ASSEMBLY DIAGRAM: 21814

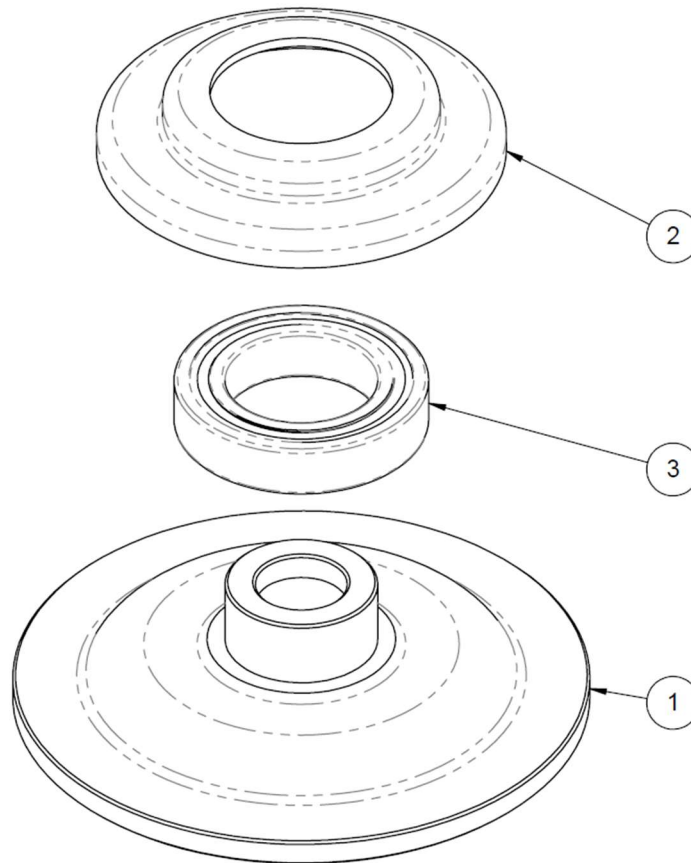


SPIDER PLATE ASSEMBLY: 21814 – PARTS LIST 6

Item #	Part #	Description	QTY	Remarks
1	21797	SPIDER PLATE	1	07/20/2014
2	21769	GREASE FITTING	4	07/20/2014
3	10822	CAP GREASE, NIPPLE, 1/8 ALEMITE	4	07/20/2014
4	21812	TROWEL ARM	4	07/20/2014
5	21766	HHCS, DOG POINT, M8-1.25 x 20MM	4	07/20/2014
6	10805	LOCKWASHER	4	07/20/2014
7	21798	LIFT LEVER	4	07/20/2014
8	10867	HEX JAM NUT, M10-1.5	8	07/20/2014
9	10869	CARRIAGE BOLT, M10-1.5 x 35MM	4	07/20/2014
10	21765	SHSS, M10-1.5 x 30MM	4	07/20/2014
11	21811	ADJUSTING SCREW, 30MM	4	07/20/2014
12	11901	O-RING, 3MM x 24MM ID	4	07/20/2014

PARTS LIST 7 – WALK-BEHIND TROWELS

PRESSURE PLATE ASSEMBLY DIAGRAM: 20627

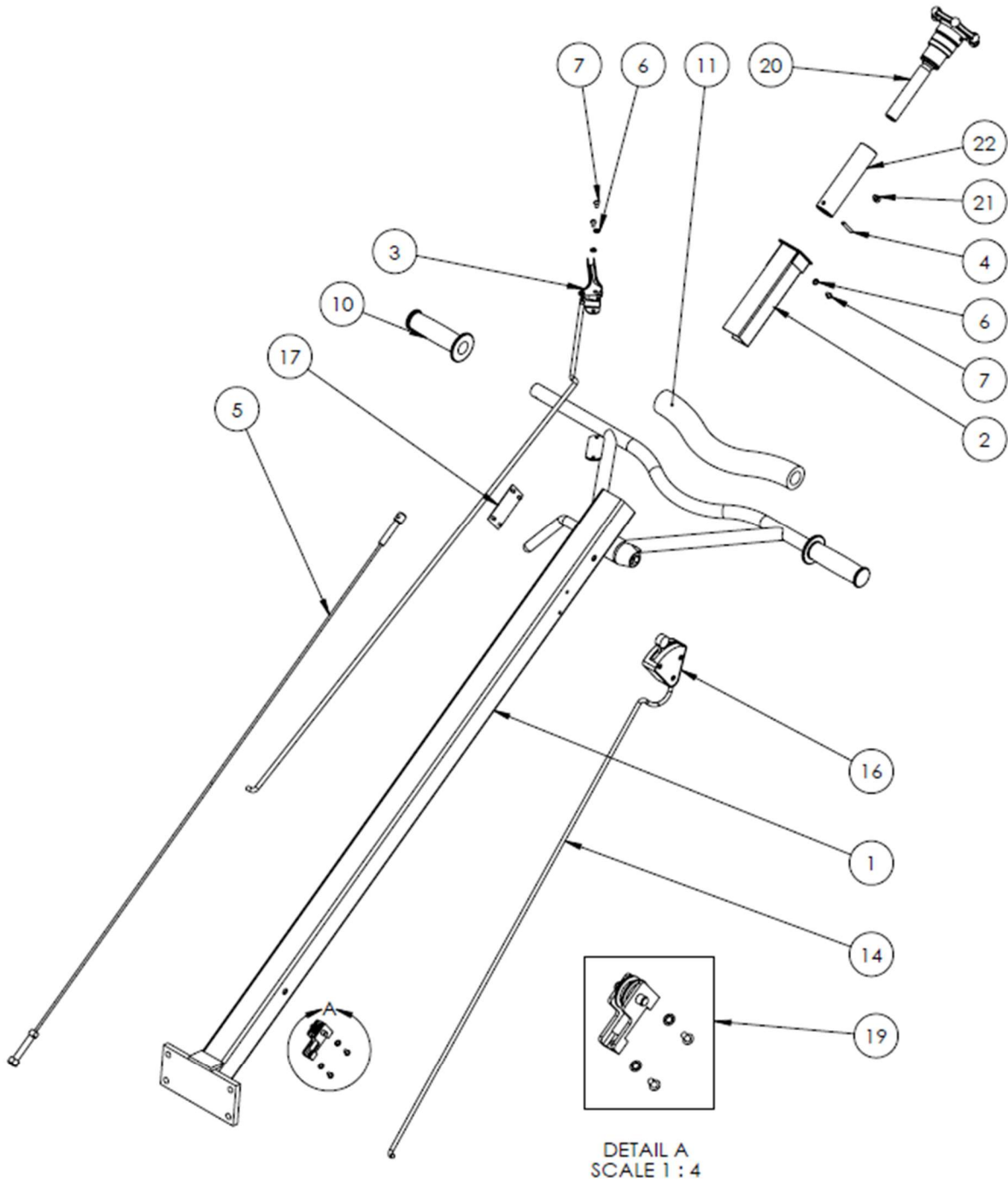


PRESSURE PLATE ASSEMBLY: 20627 – PARTS LIST 7

Item #	Part #	Description	QTY	Remarks
1	10660	PRESSURE PLATE	1	7/20/2014
2	10668	PRESSURE PLATE CAP	1	7/20/2014
3	10664	THRUST BEARING P/P	1	7/20/2014

PARTS LIST 8 – WALK-BEHIND TROWELS

HANDLE ASSEMBLY DIAGRAM: 20230C FINE PITCH

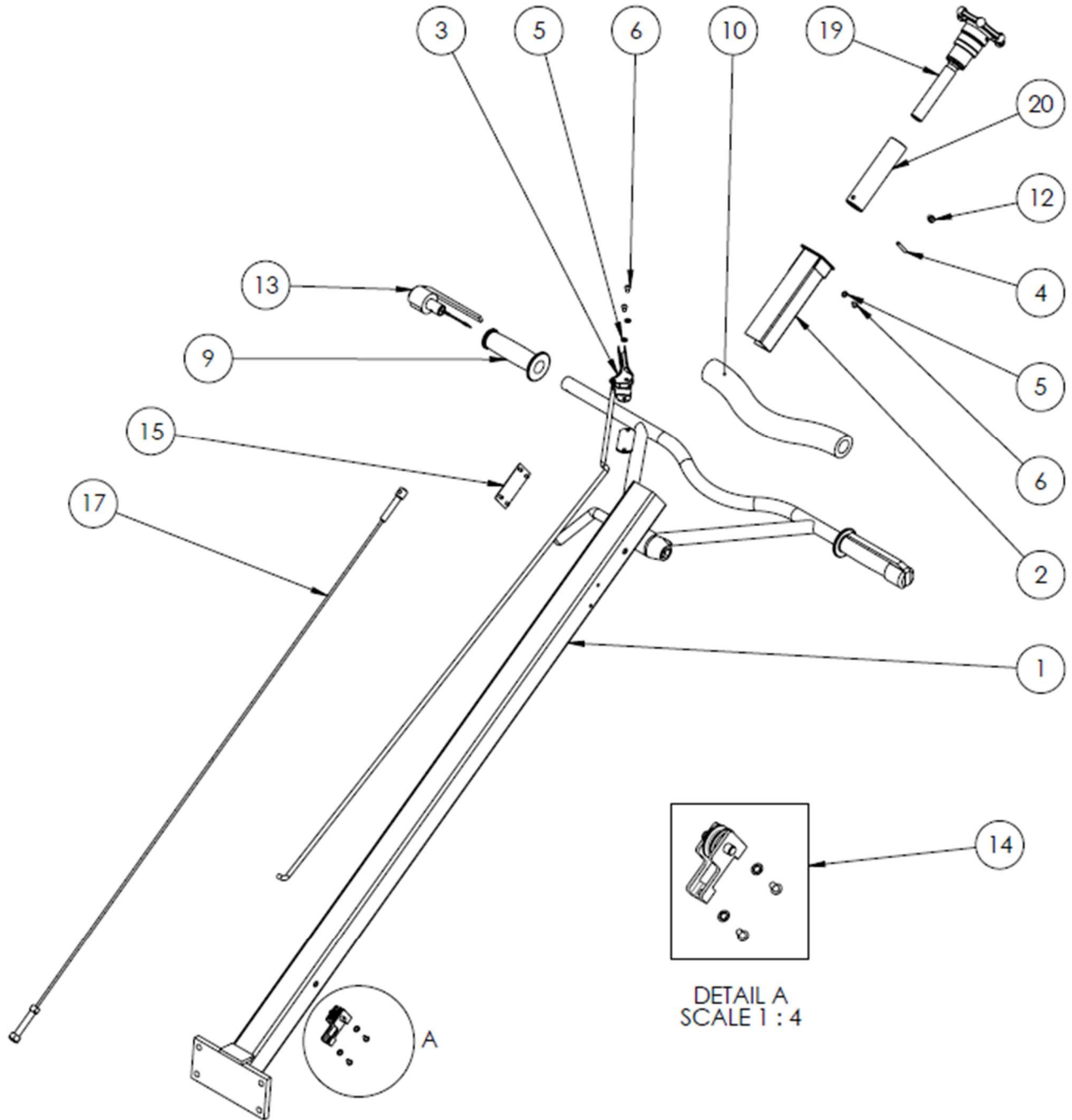


HANDLE ASSEMBLY: 20230C FINE PITCH - PARTS LIST 8

Item #	Part #	Description	QTY	Remarks
1	20230C	MEDIUM STRAIGHT HANDLE, FULLY ASSEMBLED	1	10/01/2014
2	20112	PITCH INSERT	1	10/01/2014
3	10508	THROTTLE LEVER ASSEMBLY	1	10/01/2014
4	21724	PIN 3/16"DIA X 1-1/4"LG	1	10/01/2014
5	20331	PITCH CONTROL CABLE, 43 5/16" HOLE TO END OF LUG	1	10/01/2014
6	10703	LOCK WASHER, INTERNAL TOOTH, #10	3	10/01/2014
7	21728	RHMS, M5-0.8 X 8MM LG	3	10/01/2014
10	21717	HANDLE GRIP	2	10/01/2014
11	21721	CROSSBAR PAD	1	10/01/2014
14	20702	66" WIRE ASSEMBLY	1	10/01/2014
16	21847	SAFETY SWITCH	1	10/01/2014
17	20111	COVER PLATE	1	10/01/2014
19	20288	PULLEY ASSEMBLY *INCLUDES PARTS BELOW*	1	10/01/2014
20	21720	ASSY, HAND KNOB	1	10/01/2014
21	21725	M6-1.0 X 6MM LG	1	10/01/2014
22	21722	THREADED SLIDE BUSHING	1	10/01/2014
	10525-SQCOM	BARTELL DECAL KIT	1	

PARTS LIST 9 – WALK-BEHIND TROWELS

HANDLE ASSEMBLY DIAGRAM: 20230E EUROPEAN SPEC.

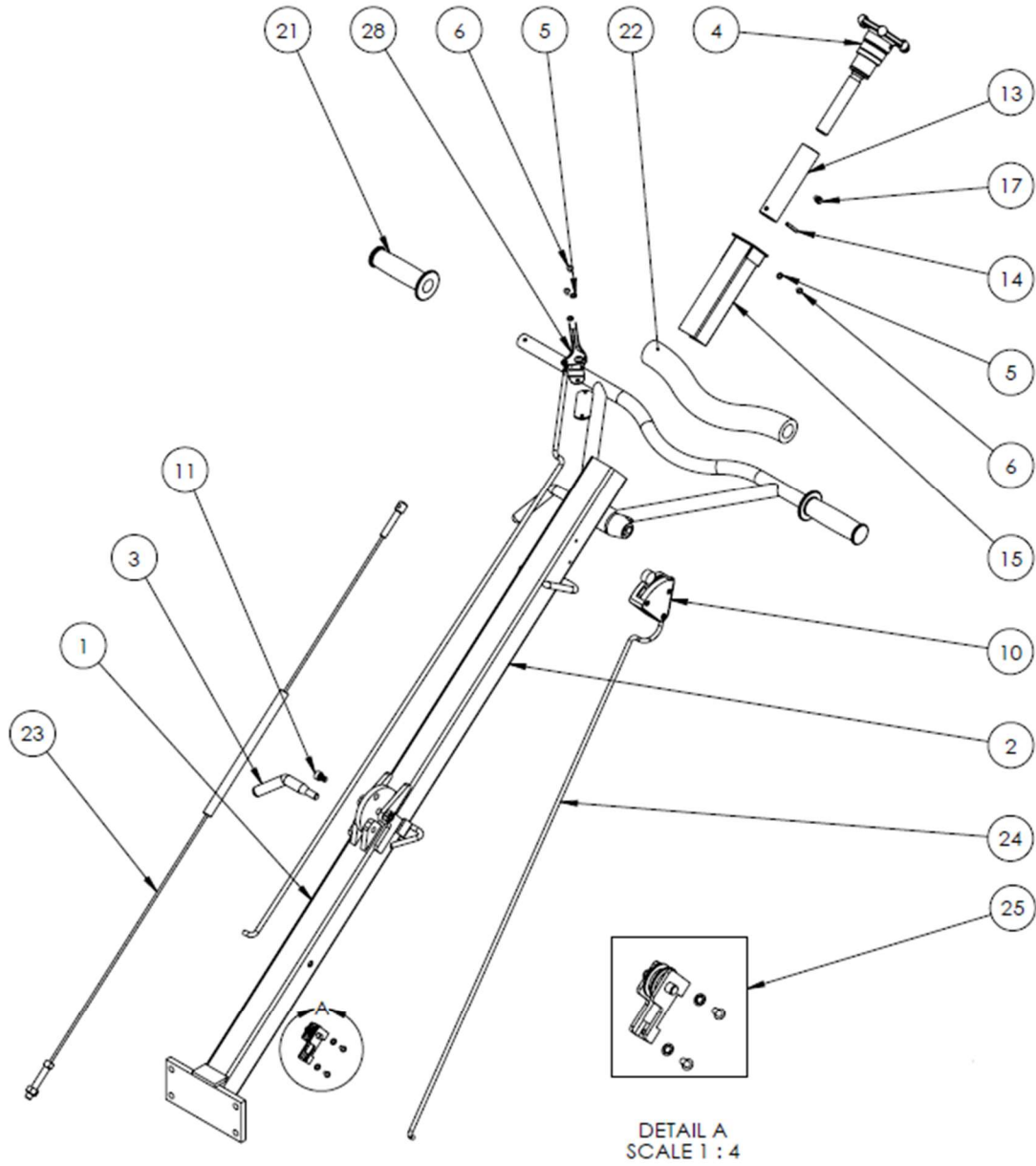


HANDLE ASSEMBLY: 20230E EUROPEAN SPEC. - PARTS LIST 9

Item #	Part #	Description	QTY	Remarks
1	20230E	MEDIUM STRAIGHT HANDLE, FULLY ASSEMBLED	1	10/01/2014
2	20112	PITCH INSERT	1	10/01/2014
3	10508	THROTTLE LEVER ASSEMBLY	1	10/01/2014
4	21724	PIN 3/16"DIA X 1-1/4"LG	1	10/01/2014
5	10703	LOCK WASHER, INTERNAL TOOTH, #10	3	10/01/2014
6	21728	RHMS, M5-0.8 X 8MM LG	3	10/01/2014
9	21717	HANDLE GRIP	2	10/01/2014
10	21721	CROSSBAR PAD	1	10/01/2014
12	21725	M6-1.0 X 6MM LG	1	10/01/2014
13	11852	SAFETY SWITCH, PIGTAIL WIRES	2	10/01/2014
14	20288	PULLEY ASSEMBLY	1	10/01/2014
15	20113	PITCH FACEPLATE	1	10/01/2014
17	20335	PITCH CONTROL CABLE, 1331MM HOLE TO END OF LUG	1	10/01/2014
19	21714	HAND KNOB ASSEMBLY	1	10/01/2014
20	21722	THREADED SLIDE BUSHING	1	10/01/2014
		EURO WIRE ASSEMBLY	1	10/01/2014
	10525-SQCOM	BARTELL DECAL KIT	1	

PARTS LIST 10 – WALK-BEHIND TROWELS

FOLDING HANDLE ASSEMBLY DIAGRAM: 20229C

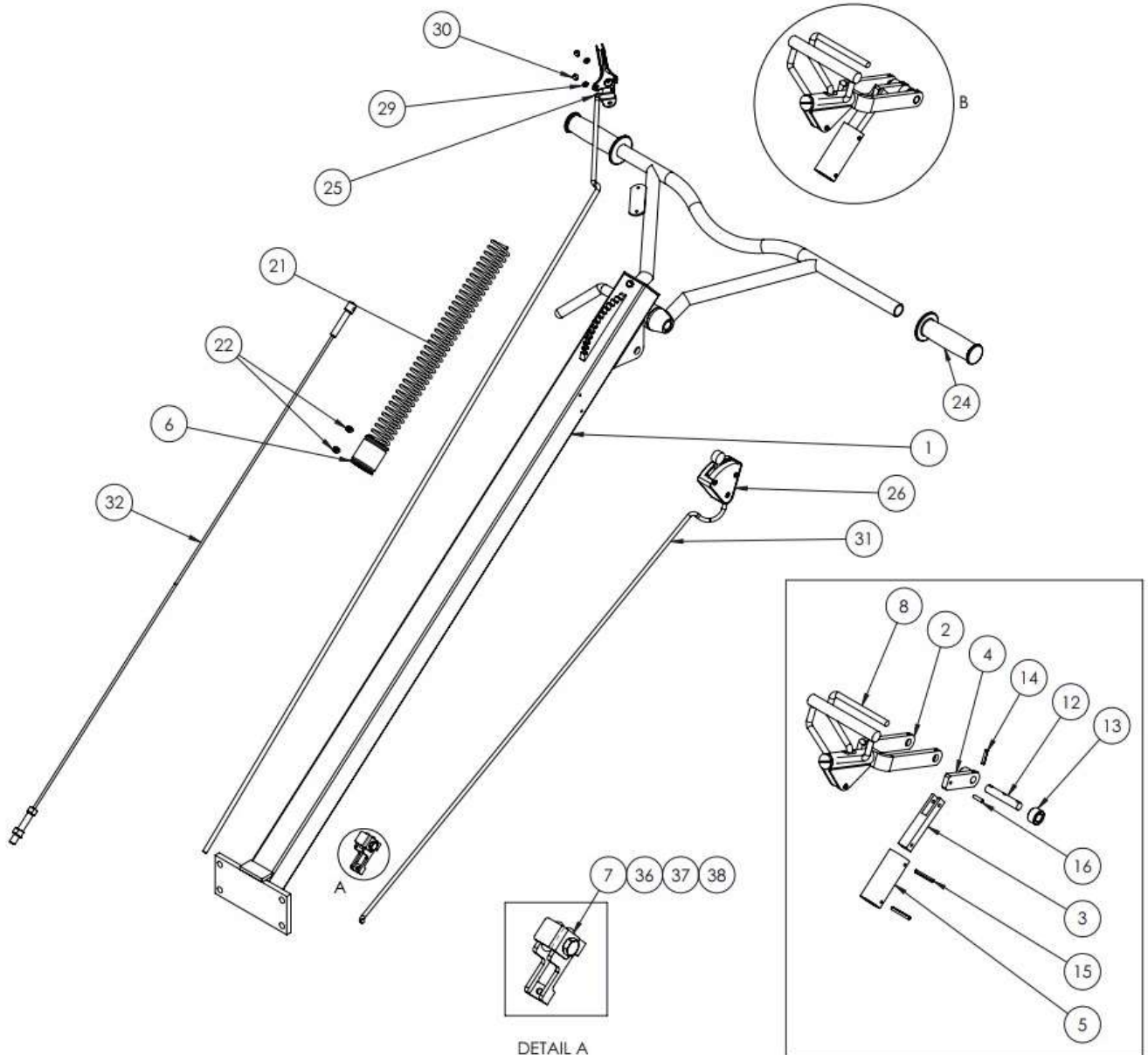


FOLDING HANDLE ASSEMBLY: 20229C – PARTS LIST 10

Item #	Part #	Description	QTY	Remarks
2	20229	FOLDING HANDLE, FULLY ASSEMBLED	1	1/21/2015
3	20195	THREADED PIN	1	1/21/2015
4	21714	HAND KNOB ASSEMBLY	1	1/21/2015
5	10703	LOCK WASHER, INTERNAL TOOTH, #10	5	1/21/2015
6	21728	RHMS, M5-0.8x8MM LG	5	1/21/2015
10	21847	SAFETY SWITCH	1	1/21/2015
11	51010	SHCS, M8-1.25X12MM LG	2	1/21/2015
13	21722	THREADED SLIDE BUSHING	1	1/21/2015
14	21724	PIN 3/16" DIA x1-1/4" LG	1	1/21/2015
15	20112	PITCH INSERT	1	1/21/2015
17	21725	M6-1.0 x 6MM LG	1	1/21/2015
21	21717	HANDLE GRIP	2	1/21/2015
22	21721	CROSSBAR PAD	1	1/21/2015
23	20331	PITCH CONTROL CABLE, 43 5/16" HOLE TO END OF LUG	1	1/21/2015
24	20703	66" WIRE ASSY	1	1/21/2015
25	20287	PULLEY ASSEMBLY	1	1/21/2015
28	10508	THROTTLE LEVER ASSEMBLY	1	1/21/2015
	10525-SQCOM	BARTELL DECAL KIT	1	

PARTS LIST 11 – WALK-BEHIND TROWELS

PRO PITCH HANDLE ASSEMBLY DIAGRAM: 20730

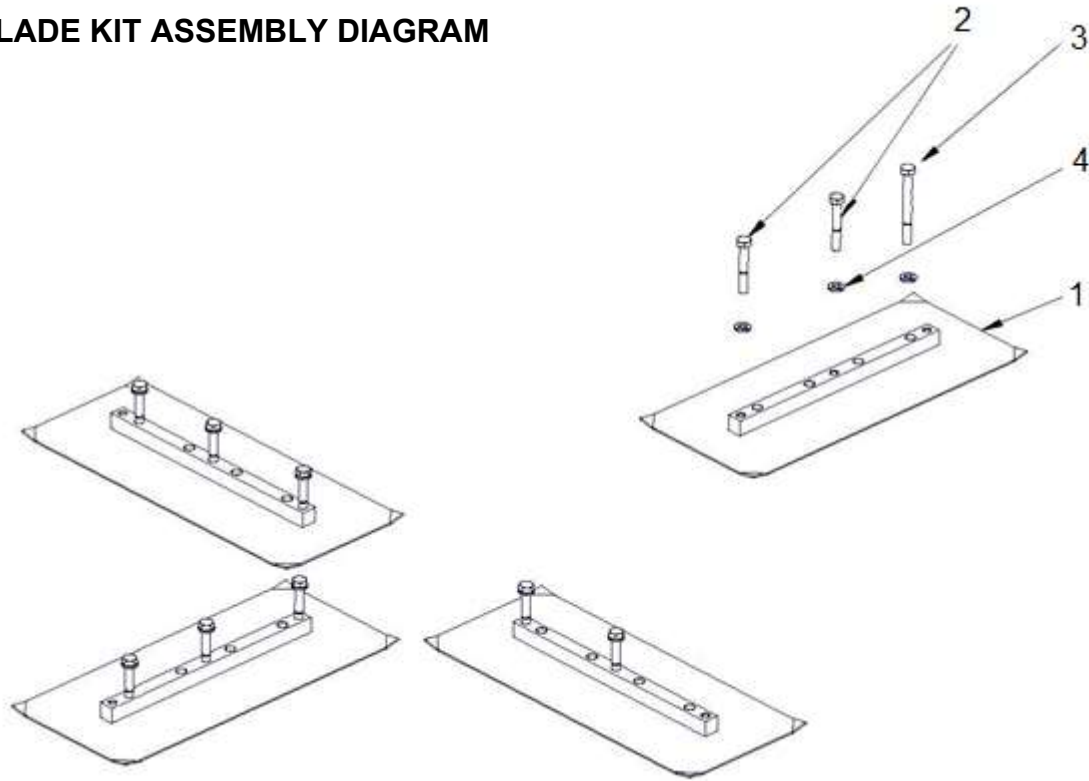


PRO PITCH HANDLE ASSEMBLY: 20730 – PARTS LIST 11

Item #	Part #	Description	QTY	Remarks
1	20360	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	
13	23261	SPACER, 25x14x15	2	
14	21806	SPRING PIN, M5 X 24MM	3	
15	21994	SPRING PIN, M5 X 40MM	2	
16	21995	SPRING PIN, M5 X 20MM	1	
21	23262	SPRING	1	
22	11762	SHSS, M8-1.25x20MM LG. CONE PT.	2	
24	21717	HANDLE GRIP	2	
25	10508	THROTTLE LEVER	1	
26	21847	SAFETY SWITCH	1	
29	10703	LOCKWASHER, #10	2	
30	21728	PHMS, M5-0.8 X 8MM LG	2	
31	20703	WIRE ASSEMBLY	1	
32	20340	PITCH CONTROL CABLE, 1034MM HOLE TO END OF LUG	1	
36	20293	CABLE GUIDE	1	
37	11617	LOCKNUT, M8-1.25	1	
38	10407M	HHCS, M8-1.25x30MM LG.	1	

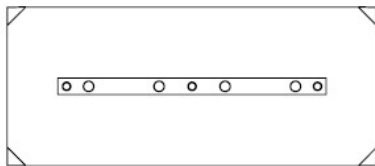
PARTS LIST 12 – WALK-BEHIND TROWELS

BLADE KIT ASSEMBLY DIAGRAM

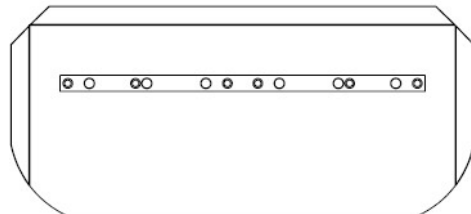


BC436 BLADE KIT – PARTS LIST 12

Item #	Part #	Description	QTY	Remarks
1	-	TROWEL BLADE	4	08/04/2007
2	10452	HHCS, M8-1.25 X 40MM	8	08/04/2007
3	10453	HHCS, M8-1.25 X 50MM	4	08/04/2007
4	11614	LOCK WASHER, M8	12	08/04/2007



STANDARD FINISHING BLADE



STANDARD COMBINATION BLADE

Part #	Dimensions	Part #	Dimensions
20414	6" x 14" (15.2CM x 35.6CM)	20479	8" x 14" (20.3CM x 35.6CM)

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CONTRACTOR PROVEN EQUIPMENT SINCE 1946



BARTELL GLOBAL

170 Traders Blvd E
Mississauga, ON L4Z 1W7
Canada

4701 Allmond Avenue
Louisville, KY 40209
United States

200 Commerce Drive
Freehold, NJ 07728
United States

Honeyholes Lane
Dunholme, Lincoln LN2 3SU
United Kingdom

