

THE
BARRETO
MODEL E1320H/E1420S/E1620B
HYDRAULIC REAR TINE TILLER
EXPLODED VIEWS WITH PART NUMBERS

CONGRATULATIONS!

You are now the proud owner of a BARRETO tiller. The following pages have detailed views of your tiller, along with corresponding part numbers. If you have any questions or need any replacement parts in the future, please contact us at your convenience. Our toll-free phone number, fax and email are listed below and parts may be ordered through any of these methods.

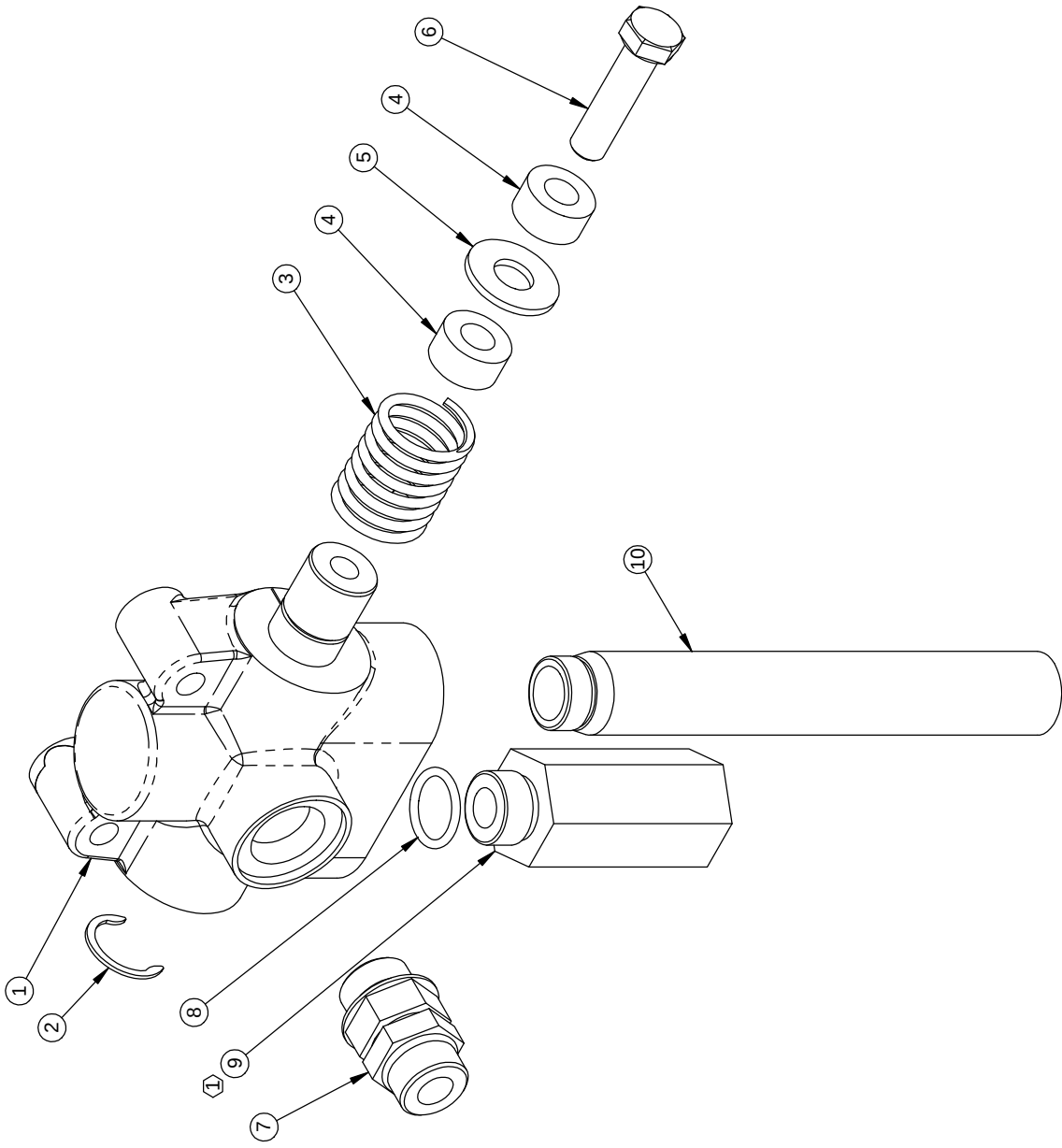
Thank you for your patronage and confidence in BARRETO equipment.

Barreto Manufacturing, Inc.
Innovative Equipment Engineered to Last
66498 Highway 203
La Grande, OR 97850
1-800-525-7348
1-541-963-6755 Fax
E-Mail: info@barretomfg.com
Web Site: <http://www.barretomfg.com>

Machine Identification Record

BARRETO Customer number	_____
Machine model number	_____
Machine serial number	_____
Engine manufacturer	_____
Engine model number	_____
Engine serial number	_____

REF.	QTY.	PART NO.	DESCRIPTION
1	1	04016	ACTUATOR VALVE, O-RING PORTS
2	1	05028	C-CLIP, 3/4"
3	1	03055	SPRING, VALVE SPOOL RETURN
4	2	03056	COLLAR, 3/8 ID
5	1	05108	WASHER, 3/8 USS, ZINC
6	1	05092	HH CAP SCREW, 3/8-16 NC X 1-1/2 G5 ZINC
7	1	04567	FITTING, 6407-8-8
8	1	03077	O-RING, -8 FITTING
9	1	04008-BO	RELIEF VALVE, 3000 POUND, O-RING
10	1	10481	RETURN TUBE, #8 O-RING



① FOR 1620, USE PART NO. 04008-CO (3500 POUND RELIEF VALVE).

TITLE: ACTUATOR VALVE

PRODUCT LINE: 1320 & 1620 DATE: 1/4/05

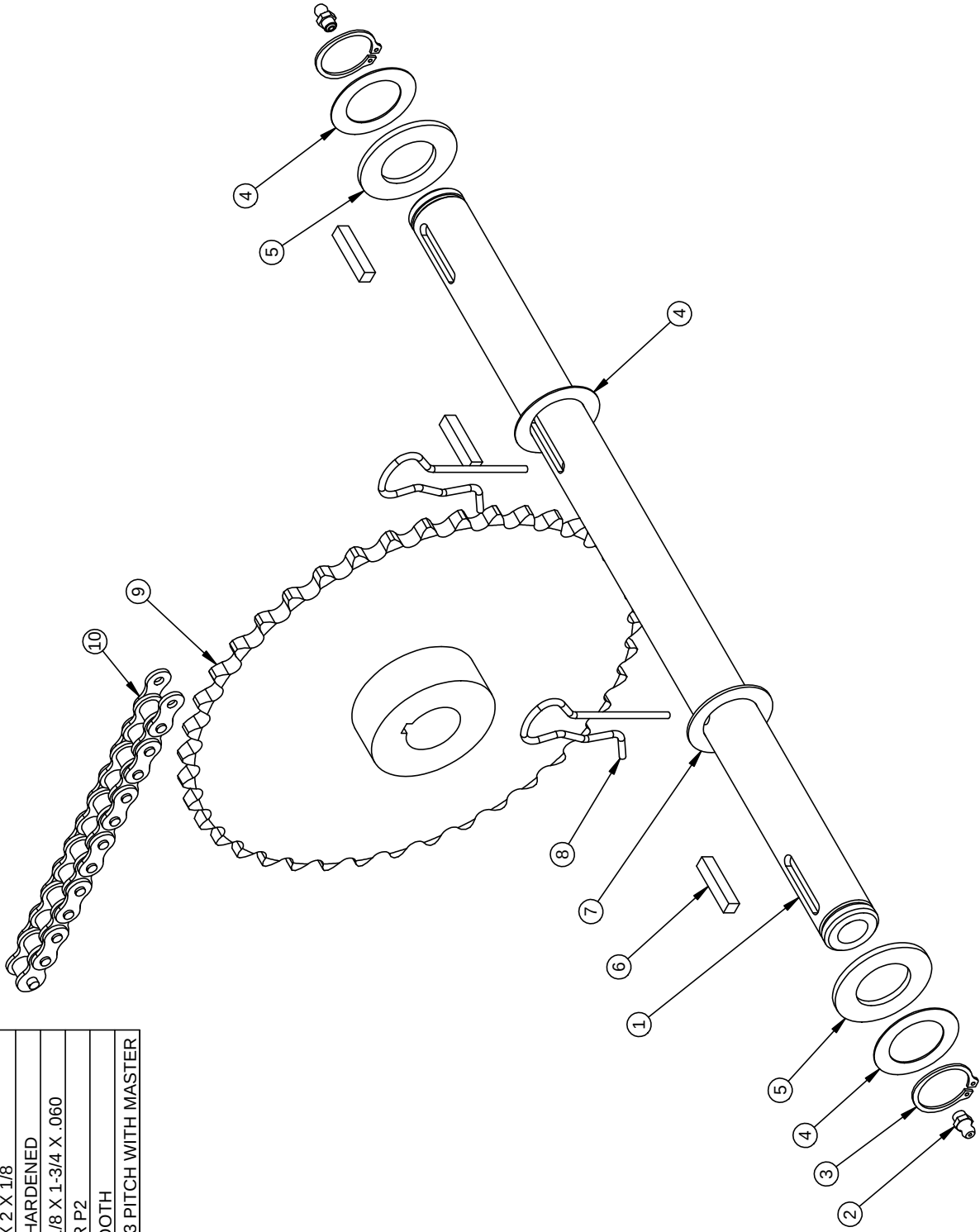
SCALE: 1:1.8

DWG# 00277

SHEET 1 OF 1

BARRETO

REF.	QTY.	PART NO.	DESCRIPTION
1	1	10804	AXLE, FREE WHEEL HUBS ONLY
2	2	05044	GREASE ZERK, 1/4-28 UNF
3	2	05606	SNAP RING, 1-1/8" EXTERNAL
4	3	03008	THRUST WASHER, 1-1/8 X 1-3/4 X .030
5	2	03013	FELT WASHER, 1-1/8 X 2 X 1/8
6	3	05018	KEY, 1/4 X 1/4 X 1-1/4 HARDENED
7	1	03039	THRUST WASHER, 1-1/8 X 1-3/4 X .060
8	2	05033	HAIR SPRING COTTER P2
9	1	02006-F	SPROCKET, #50 40 TOOTH
10	1	03015-L	#50 ROLLER CHAIN, .63 PITCH WITH MASTER



BARRETO

TITLE: AXLE,
FOR 1-1/8" FREE WHEEL HUBS

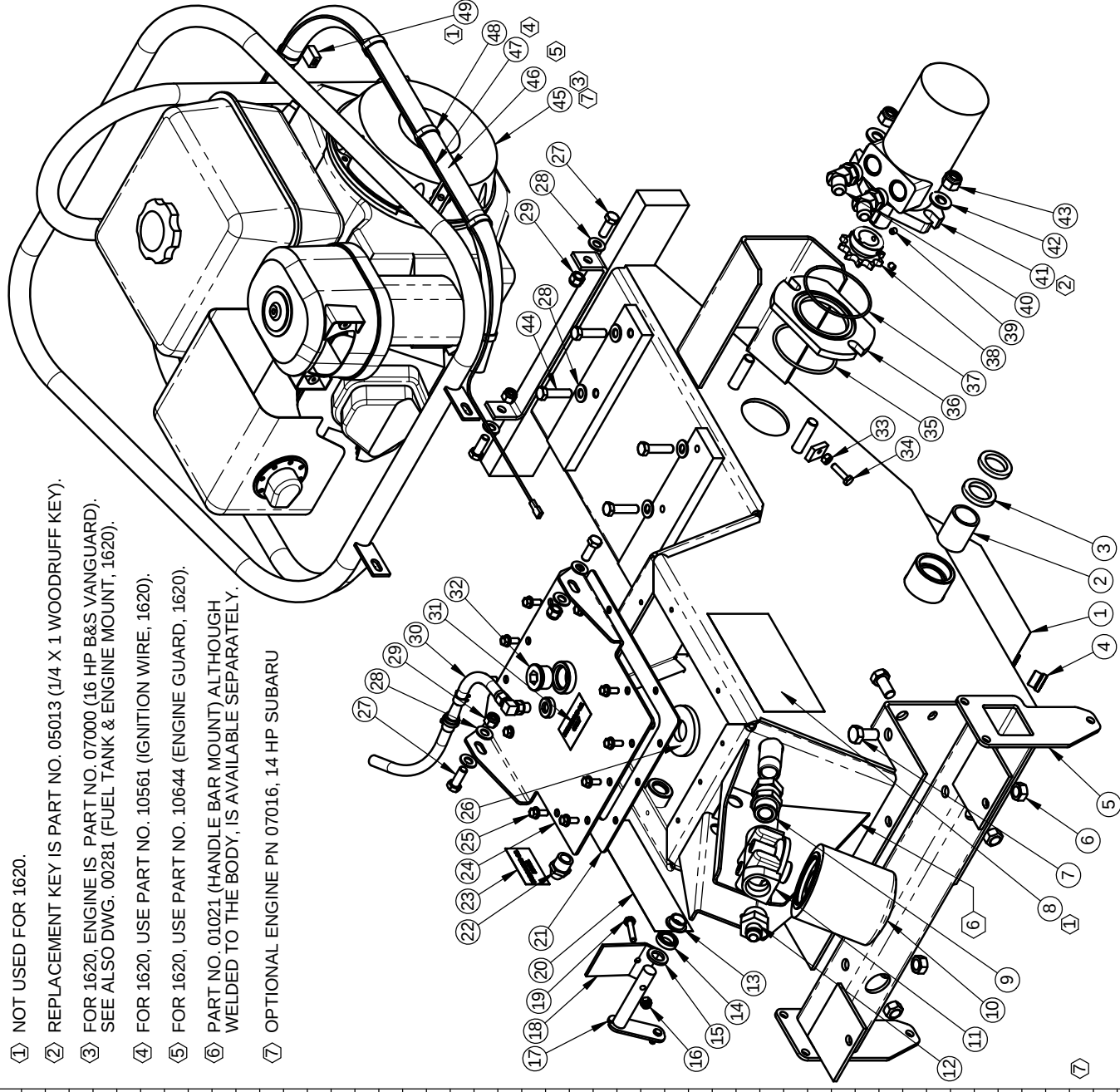
PRODUCT LINE: 1320 & 1620 7/21/05

SCALE: 1:3 DWG# 00278 R1

SHEET 1 OF 1

REF	QTY.	PART NO.	DESCRIPTION
1	1	10532	BODY
2	2	03007	BUSHING, AXLE
3	4	03012	SEAL, AXLE
4	1	10361	FITTING, 6409-8 PLUG
5	1	10536	TORQUE TUBE, 21"
6	4	05046	NUT, GRIPCO, 1/2-13 NC G5 ZINC
7	4	05067	HH CAP SCREW, 1/2-13 NC X 1 G5 ZINC
8	1	03040-10	DECAL, "1320"
9	1	04221	FITTING, 6900-12-12
10	1	03951	FILTER, HYDRAULIC OIL, WITH BY-PASS
11	1	04403	FILTER HEAD, #12 O-RING
12	1	10808	FITTING, 6400-8-12
13	2	03060	BUSHING, IGUS MFI-1012-06
14	1	03020	SEAL
15	1	03061	FELT WASHER, 5/8 X 1 X 1/8
16	1	05096	NUT, NYLOCK, 1/4-20 NC ZINC
17	1	01038	ACTUATOR ARM
18	1	01037	ACTUATOR PLATE
19	1	05125	HH CAP SCREW, 1/4-20 NC X 1-1/4 G5 ZINC
20	1	03040-11	DECAL, "BARRETO", 2-3/16 X 7-3/8
21	1	03041	GASKET, TILLER LID
22	1	03503	SIGHT GAUGE
23	1	03040-57	DECAL, "HYDRAULIC OIL LEVEL"
24	1	01022	LID
25	10	05069	WHIZ LOCK, 1/4-20 NC X 5/8 ZINC
26	1	03520	MAGNET
27	4	05056	HH CAP SCREW, 3/8-24 NF X 1 G5 ZINC
28	10	05101	WASHER, 3/8 SAE ZINC
29	4	05072	NUT, NYLOCK, 3/8-24 NF ZINC
30	1	04517 R1	BREATHER HOSE ASSEMBLY
31	1	03040-06	DECAL, "HYDRAULIC OIL ONLY"
32	1	10526	FITTING, 6409-12 PLUG
33	1	05090	NUT, 1/4-20 NC ZINC
34	1	05237	HH CAP SCREW, 1/4-20 NC X 1 G5 ZINC
35	1	03000	O-RING, 2-234, 3-1/4 OD X 1/8 SECTION
36	1	02004	WHEEL MOTOR SPACER
37	1	03001	O-RING, 2-152, 3-7/16 OD X 3/32 SECTION
38	1	02014	SPROCKET, #50 10 TOOTH
39	2	05021	SET SCREW, 1/4-20 UNC X 5/16, CUP POINT
40	2	04557	FITTING, 6802-8-10
41	1	04003-F	WHEEL DRIVE MOTOR WITH KEY
42	2	05102	WASHER, 1/2 SAE ZINC HARDENED
43	2	05098	NUT, NYLOCK, 1/2-13 NC ZINC
44	4	05092	HH CAP SCREW, 3/8-16 NC X 1-1/2 G5 ZINC
45	1	07005	ENGINE, 13 HP HONDA GX390
46	1	01033-B	ENGINE GUARD, 1320
47	1	06422	IGNITION WIRE, 78"
48	5	03035	TIE WRAP, 1/8 X 6
49	1	03806	QUICK-SPLICE

- ① NOT USED FOR 1620.
- ② REPLACEMENT KEY IS PART NO. 05013 (1/4 X 1 WOODRUFF KEY).
- ③ FOR 1620, ENGINE IS PART NO. 07000 (16 HP B&S VANGUARD). SEE ALSO DWG. 00281 (FUEL TANK & ENGINE MOUNT, 1620).
- ④ FOR 1620, USE PART NO. 10561 (IGNITION WIRE, 1620).
- ⑤ FOR 1620, USE PART NO. 10644 (ENGINE GUARD, 1620).
- ⑥ PART NO. 01021 (HANDLE BAR MOUNT) ALTHOUGH WELDED TO THE BODY, IS AVAILABLE SEPARATELY.
- ⑦ OPTIONAL ENGINE PN 07016, 14 HP SUBARU



TITLE: BODY

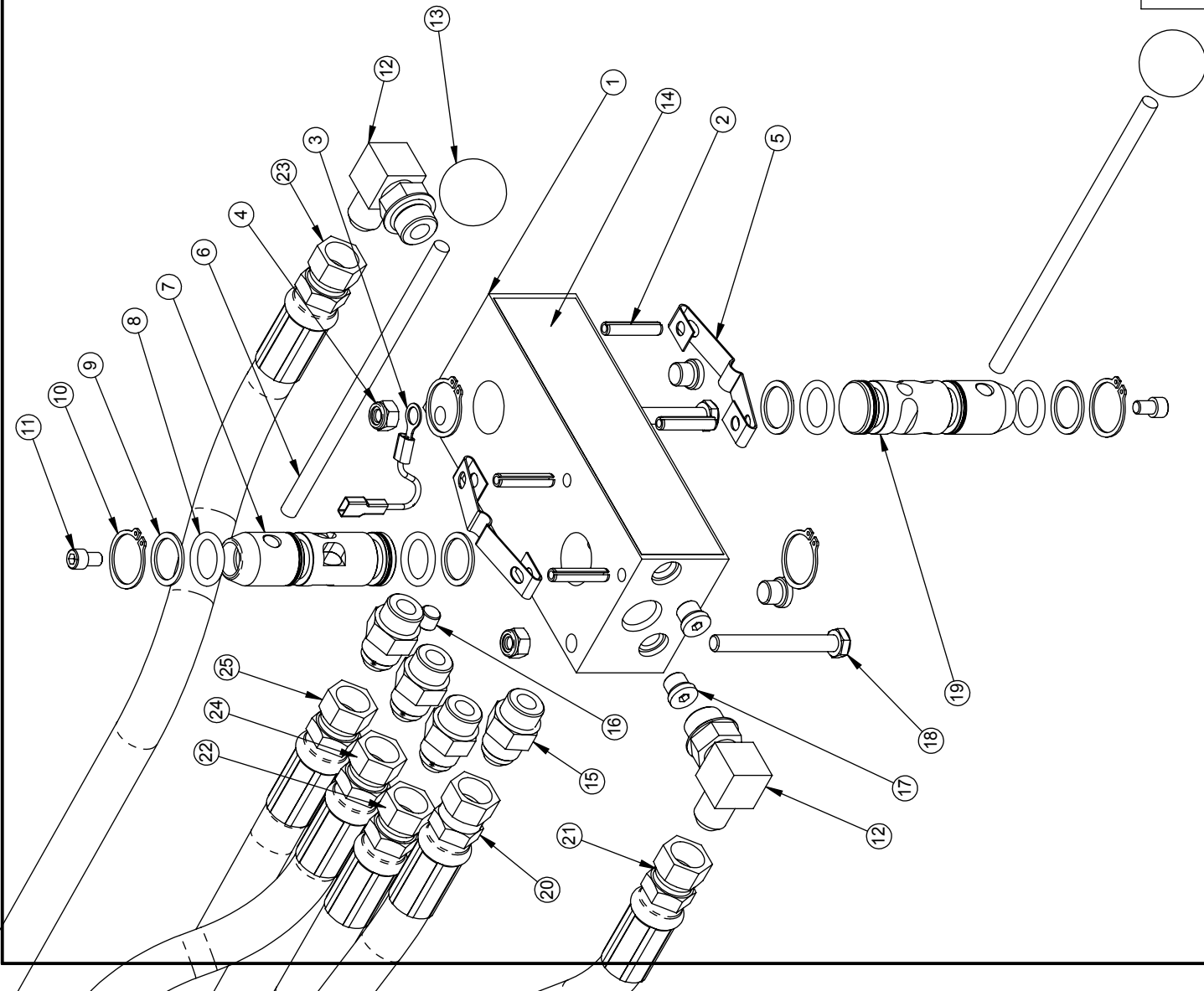
PRODUCT LINE: 1320 & 1620 DATE: 1/29/07

SCALE: 1:7.5 DWG# 00279 R5

SHEET 1 OF 1

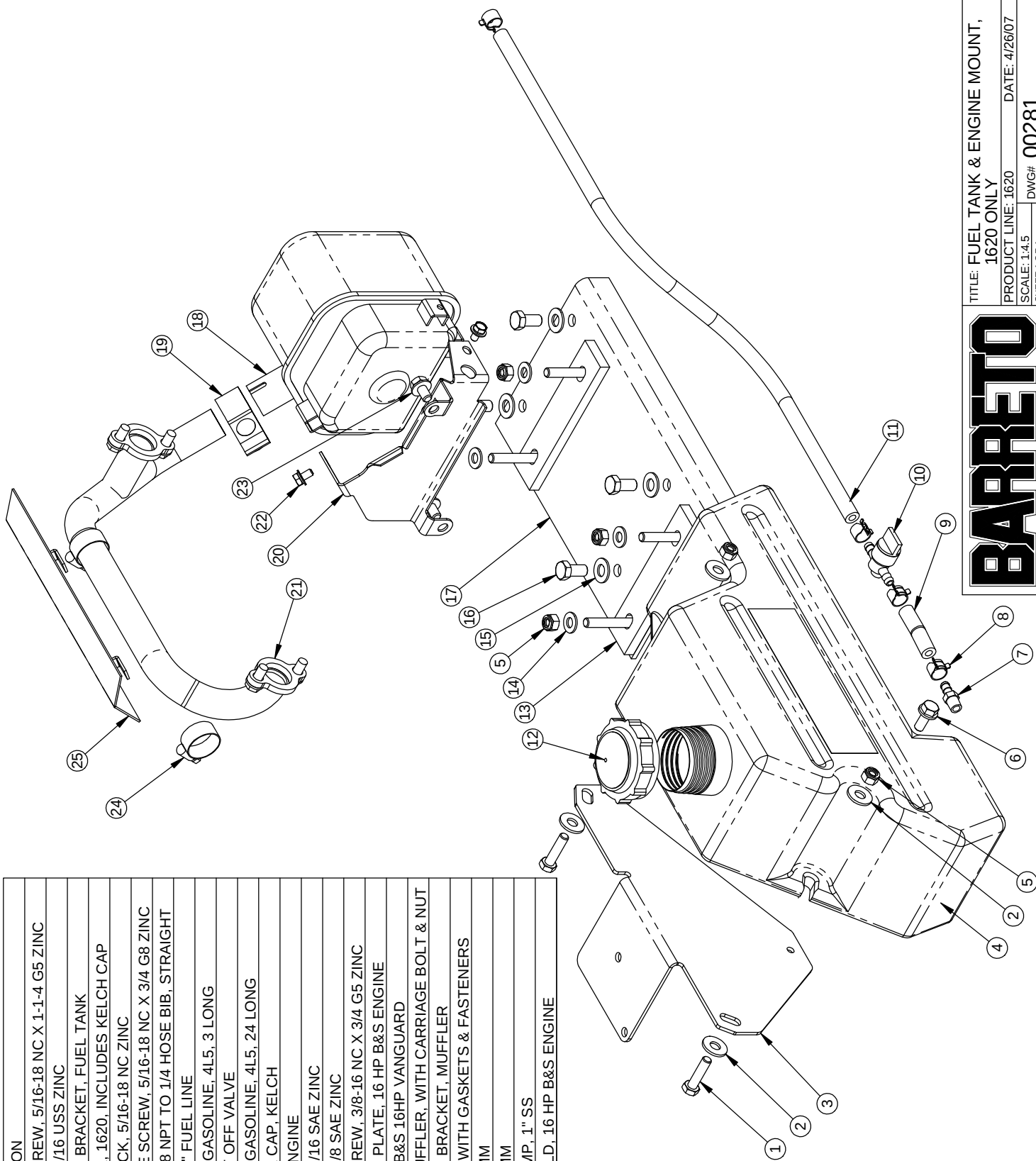
BARRETO

REF	QTY.	PART NO.	DESCRIPTION
1	1	04010	CONTROL VALVE BODY (ORDER 04010-K)
2	4	05200	ROLL PIN (SLOTTED SPRING), 1/4 X 1-1/4 ZINC
3	1	06421	GROUND WIRE, IGNITION SWITCH
4	2	05273	NUT, NYLOCK, 5/16-18 NC ZINC
5	2	03027	DETENT SPRING
6	2	02017	HANDLE, 5/16 X 7
7	1	04015-D	VALVE SPOOL, TINES (ORDER 04010-K)
8	4	03002	O-RING, 2-210, 1" OD X 1/8 SECTION
9	4	03025	BACK-UP RING, 1" TEFLON
10	4	05010	SNAP RING, 1" EXTERNAL
11	2	05573	SH CAP SCREW, 1/4-20 NC X 3/8 ZINC
12	2	04554	FITTING, 6801-8-8
13	2	03026	KNOB, 5/16-NC
14	1	03040	DECAL, CONTROL VALVE
15	4	04520	FITTING, 6400-8-8
16	1	05023	PIPE PLUG, 1/8"
17	4	03300	FITTING, 6409-4 PLUG
18	2	05065	HH CAP SCREW, 5/16-18 NC X 2-3/4 G5 ZINC
19	1	04015-C	VALVE SPOOL, WHEEL DRIVE (ORDER 04010-K)
20	1	04308	HOSE, CONTROL VALVE TO ACTUATOR TEE FITTING
21	1	04309 R1	HOSE, CONTROL VALVE TO TINE MOTOR REAR PORT
22	1	04310 R1	HOSE, CONTROL VALVE TO TINE MOTOR FRONT PORT
23	1	04311	HOSE, CONTROL VALVE TO WHEEL MOTOR LOWER PORT
24	1	04311	HOSE, CONTROL VALVE TO WHEEL MOTOR UPPER PORT
25	1	04313	HOSE, CONTROL VALVE TO OIL FILTER MOUNT



BARRETO

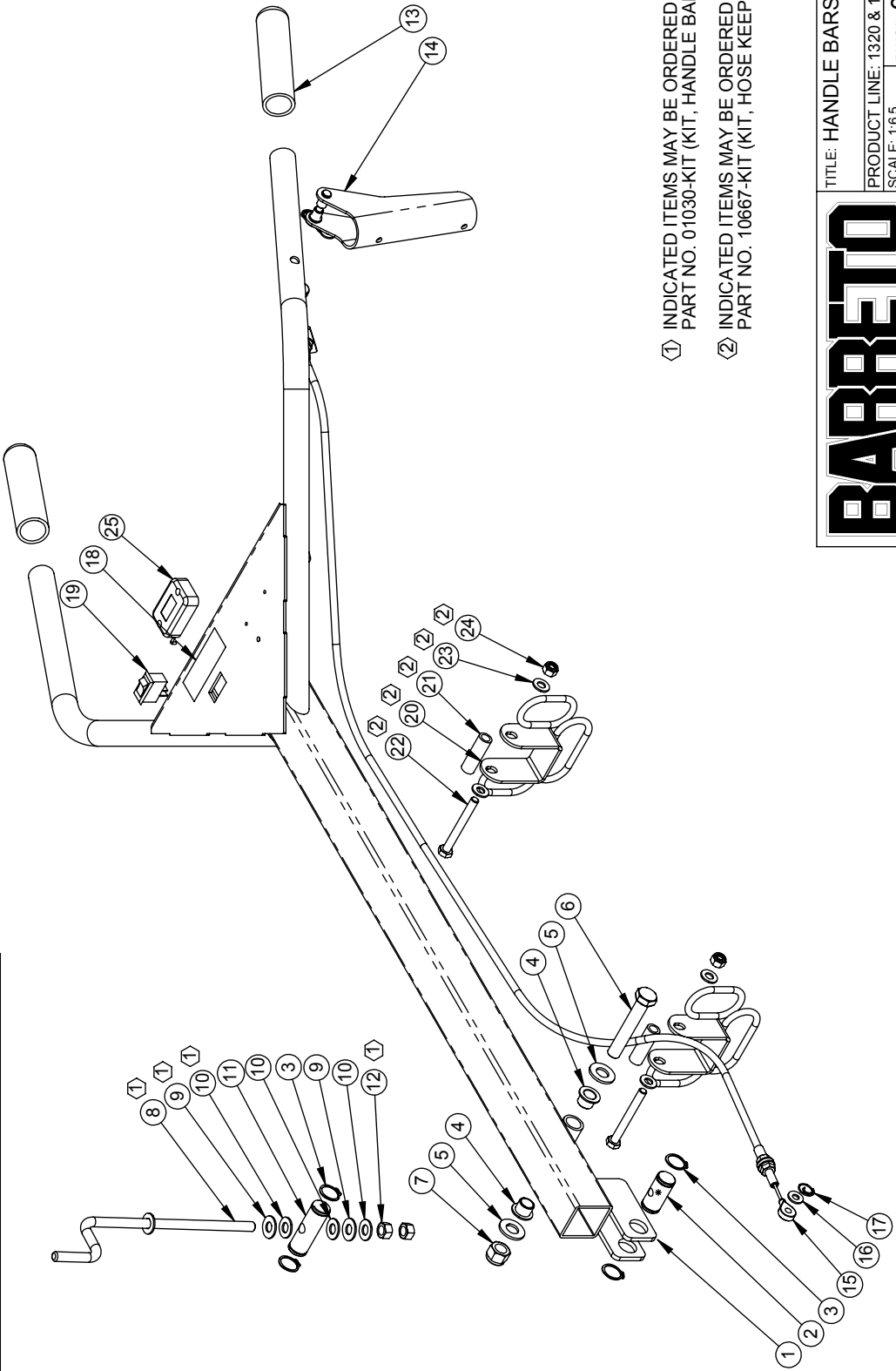
REF.	QTY.	PART NO.	DESCRIPTION
1	2	05297	HH CAP SCREW, 5/16-18 NC X 1-1/4 G5 ZINC
2	4	10615	WASHER, 5/16 USS ZINC
3	1	10556	MOUNTING BRACKET, FUEL TANK
4	1	10559	FUEL TANK, 1620, INCLUDES KELCH CAP
5	6	05273	NUT, NYLOCK, 5/16-18 NC ZINC
6	1	05131	HH FLANGE SCREW, 5/16-18 NC X 3/4 G8 ZINC
7	1	03062-04	FITTING, 1/8 NPT TO 1/4 HOSE BIB, STRAIGHT
8	4	03062-06	CLAMP, 1/4" FUEL LINE
9	1	11346	HOSE, 1/4" GASOLINE, 4L5, 3 LONG
10	1	03062-03	FUEL SHUT OFF VALVE
11	1	11352	HOSE, 1/4" GASOLINE, 4L5, 24 LONG
12	1	03062-12	FUEL TANK CAP, KELCH
13	2	01014	SPACER, ENGINE
14	4	05068	WASHER, 5/16 SAE ZINC
15	4	05101	WASHER, 3/8 SAE ZINC
16	4	05057	HH CAP SCREW, 3/8-16 NC X 3/4 G5 ZINC
17	1	01013	MOUNTING PLATE, 16 HP B&S ENGINE
18	1	07000-01	MUFFLER, B&S 16HP VANGUARD
19	1	07000-02	CLAMP, MUFFLER, WITH CARRIAGE BOLT & NUT
20	1	07000-03	MOUNTING BRACKET, MUFFLER
21	1	07000-04	MANIFOLD WITH GASKETS & FASTENERS
22	2	03070	SCREW, 6MM
23	2	03071	SCREW, 8MM
24	2	05041	HOSE CLAMP, 1" SS
25	1	01040	HEAT SHIELD, 16 HP B&S ENGINE



BARRETO

TITLE: FUEL TANK & ENGINE MOUNT,
1620 ONLY
PRODUCT LINE: 1620
SCALE: 1:4.5
DATE: 4/26/07
DWG# 00281
SHEET 1 OF 1

REF	QTY.	PART NO.	DESCRIPTION	REF	QTY.	PART NO.	DESCRIPTION
1	1	01017	HANDLE BARS	14	1	03029	LEVER ASSEMBLY (COMPLETE)
2	1	02027-L	HANDLE BAR ADJUSTER PIN, LOWER	15	1	03045	CABLE, ACTUATOR
3	4	05216	SNAP RING, 3/4 EXTERNAL	16	1	05081	WASHER, 1/4 SAE ZINC
4	2	03501	BUSHING, IGUS MFI-0810-08	17	1	05039	CIRCLE COTTER CC-3
5	2	05102	WASHER, 1/2 SAE ZINC HARDENED	18	1	03341-07	DECAL, "IGNITION OFF/ON"
6	1	05093	HH CAP SCREW, 1/2-13 NC X 3 G5 ZINC	19	1	06420	ROCKER SWITCH, IGNITION OFF/ON
7	1	05098	NUT, NYLOCK, 1/2-13 NC ZINC	20	2	10667	HOSE KEEPER
8	1	01030	CRANK, HANDLE BAR ADJUSTMENT	21	2	10668	SPACER, HOSE KEEPER
9	2	05058	WASHER, 3/8 NYLON	22	2	05065	HH CAP SCREW, 5/16-18 NC X 2-3/4 G5 ZINC
10	3	05103	WASHER, 3/8 A325 HARDENED ZINC	23	4	05068	WASHER, 5/16 SAE ZINC
11	1	02027-U	PIN, HANDLE BAR ADJUSTMENT, UPPER	24	2	05273	NUT, NYLOCK, 5/16-18 NC ZINC
12	2	05269	NUT, 3/8-16 NC GRB ZINC	25	1	03009 R1	HOSE KEEPER, WITH FLASH ALERT
13	2	03032-01	GRIP, 1 X 5 (PIN 03032 IS A PAIR)				

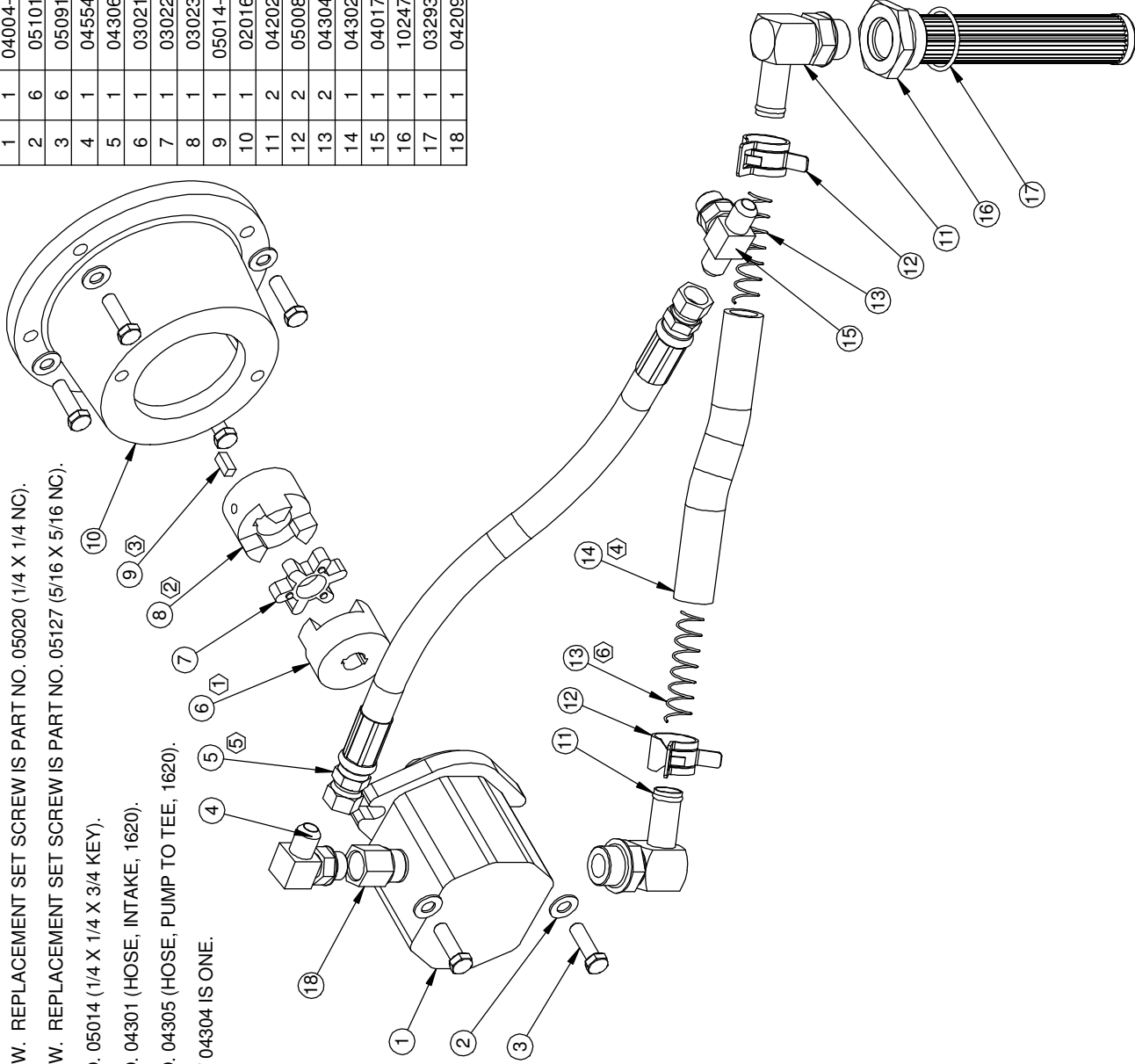


① INDICATED ITEMS MAY BE ORDERED AS A KIT,
PART NO. 01030-KIT (KIT, HANDLE BAR ADJUSTMENT).

② INDICATED ITEMS MAY BE ORDERED AS A KIT,
PART NO. 10667-KIT (KIT, HOSE KEEPER W/FASSTENERS).

NOTES:

- ① COMES WITH SET SCREW. REPLACEMENT SET SCREW IS PART NO. 05020 (1/4 X 1/4 NC).
- ② COMES WITH SET SCREW. REPLACEMENT SET SCREW IS PART NO. 05127 (5/16 X 5/16 NC).
- ③ FOR 1620, USE PART NO. 05014 (1/4 X 1/4 X 3/4 KEY).
- ④ FOR 1620, USE PART NO. 04301 (HOSE, INTAKE, 1620).
- ⑤ FOR 1620, USE PART NO. 04305 (HOSE, PUMP TO TEE, 1620).
- ⑥ FOR 1620, QUANTITY OF 04304 IS ONE.



REF.	QTY.	PART NO.	DESCRIPTION
1	1	04004-A	PUMP, HYDRAULIC
2	6	05101	WASHER, 3/8 SAE ZINC
3	6	05091	HH CAP SCREW, 3/8-16 NC X 1-1/4 G5 ZINC
4	1	04554	FITTING, 6801-8-8
5	1	04306	HOSE, PUMP TO TEE, 1320
6	1	03021	JAW COUPLER, PUMP, 5/8" BORE
7	1	03022	SPIDER, RUBBER
8	1	03023	JAW COUPLER, 1-1/8" BORE L095
9	1	05014-A	KEY, 1/4 X 1/4 X 5/8
10	1	02016	PUMP ADAPTER
11	2	04202	FITTING, 4601-12-12
12	2	05008	CLAMP, 1" HOSE, CTB-29
13	2	04304	SPRING, 3/4" INTAKE HOSE
14	1	04302	HOSE, INTAKE, 1320
15	1	04017	FITTING, 6803-8-8-8
16	1	10247	SUMP SCREEN #20 EXT #12 INT O-RING
17	1	03293	O-RING, 3-920N90, -20 FITTINGS
18	1	04209	FITTING, 6410-10-8

TITLE: PUMP

PRODUCT LINE: 1320 & 1620 DATE: 9/5/07

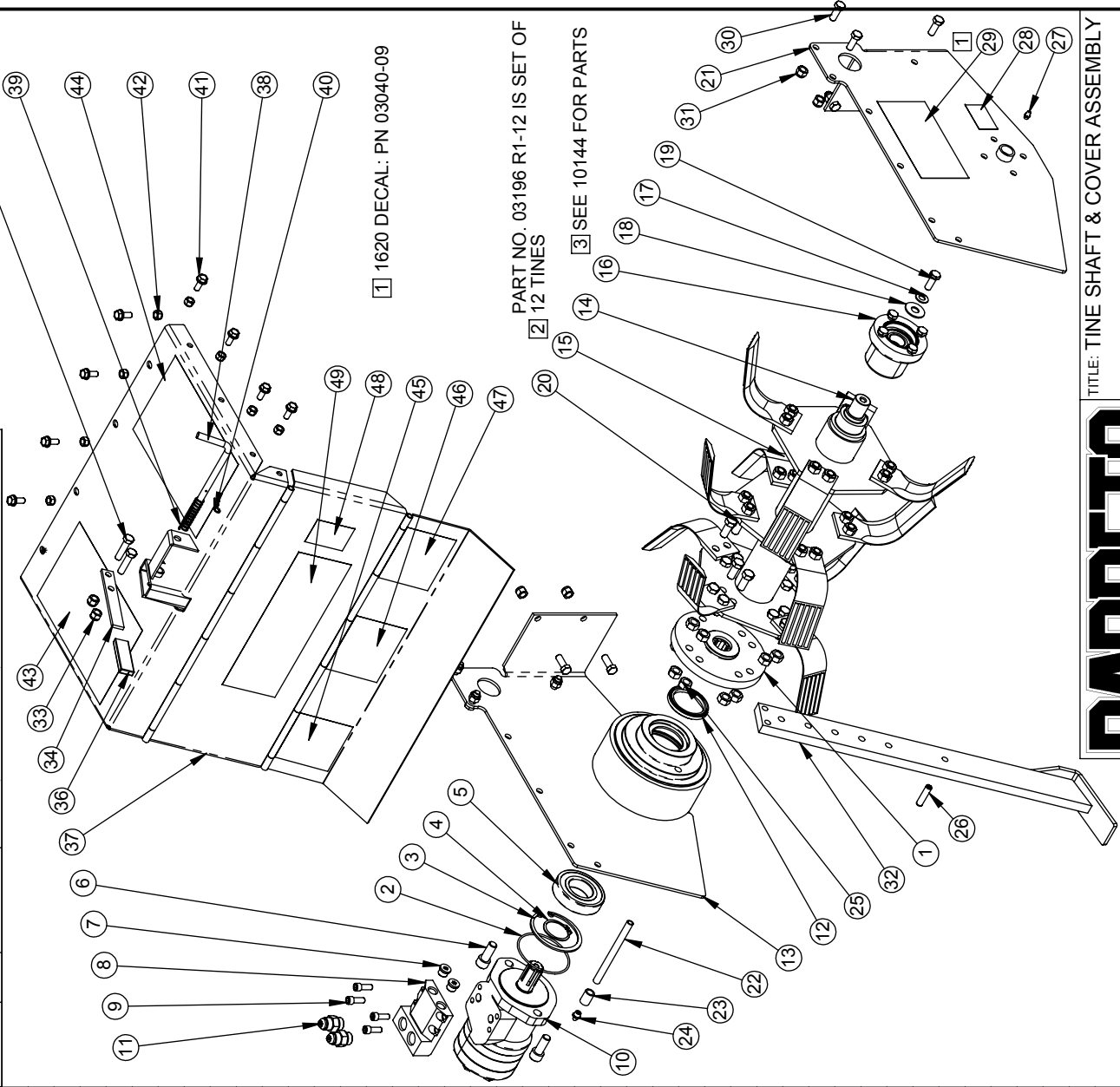
SCALE: 1:4.5

DWG# 00283 R1
SHEET 1 OF 1

BARRETO

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	11278	TINE MOTOR HUB, SPLINED
2	1	03001	O-RING, 2-152, 3-7/16 OD X 3/32 SECTION
3	1	05603	SNAP RING, HO-315, 3-5/32 INTERNAL
4	1	05607	SNAP RING, SH-156, 1-9/16" EXTERNAL
5	1	03943	BALL BEARING, SKF 6208
6	2	05585	SH CAP SCREW, 1/2-13 NC X 1-1/4 G5 ZINC
7	2	03302	FITTING, 6409-6 PLUG
8	1	02065	MANIFOLD, TINE MOTOR
9	4	05361	SH CAP SCREW, 5/16-18 NC X 7/8 ZINC
10	1	04605-F	TINE MOTOR
11	2	04520	FITTING, 6400-8-8
12	1	03930	SEAL, CR 19763
13	1	12424	TINE SIDE PLATE, LEFT
14	1	12423	TINE SHAFT, SPLINED
15	12	03196 R1	TINE, REVERSIBLE [2]
16	1	10144	OUTBOARD BEARING ASSEMBLY [3]
17	1	05103	WASHER, 3/8 A325 HARDENED ZINC
18	1	05083	WASHER, 7/16 USS ZINC
19	1	05059	HH CAP SCREW, 3/8-16 NC X 1 G5 ZINC
20	32	05061	HH CAP SCREW, 7/16-20 NF X 1 G8 ZINC
21	1	10538	RH SIDE PLATE, TINE SECTION
22	1	05282	PIPE NIPPLE, 1/8" X 5 LONG
23	1	05204	PIPE COUPLER, 1/8"
24	1	05256	GREASE ZERK, 1/8 NPT
25	32	05074	NUT, 7/16-20 NF G8 ZINC
26	1	05006	ROLL PIN (SLOTTED SPRING), 3/8 X 1-1/2 ZINC
27	1	05044	GREASE ZERK, 1/4-28 UNF
28	1	03040-04	DECAL, "GREASE DAILY"
29	1	03040-10	DECAL, "1320" [1]
30	10	05056	HH CAP SCREW, 3/8-24 NF X 1 G5 ZINC
31	10	05072	NUT, NYLOCK, 3/8-24 NF ZINC
32	1	01012	DEPTH BAR
33	2	05073	NUT, NYLOCK, 3/8-16 NC ZINC
34	1	01099	HANDLE, DEPTH BAR
35	2	05092	HH CAP SCREW, 3/8-16 NC X 1-1/2 G5 ZINC
36	1	03018	GRIP, 1/8 X 3/4 X 2-3/4
37	1	01008	TINE COVER, 1320/1620
38	1	01018	PIN, DEPTH BAR
39	1	03080	SPRING
40	1	03065	HAIR SPRING COTTER #4
41	12	05140	WHIZ LOCK, 5/16-18 NC X 3/4 ZINC
42	12	05273	NUT, NYLOCK, 5/16-18 NC ZINC
43	1	03341-23	DECAL, "TILLER SAFETY INSTRUCTIONS"
44	1	03341-22	DECAL, "TILLER OPERATING INSTRUCTIONS"
45	1	03040-08	DECAL, "WARNING" (YELLOW)
46	1	03040-03	DECAL, "CAUTION" (BLACK & WHITE)
47	1	03040-07	DECAL, "CAUTION" (YELLOW)

ITEM NO.	QTY.	PART NO.	DESCRIPTION
48	1	03040-01	DECAL, "MADE IN USA"
49	1	03040-02	DECAL, "BARRETO", 3-1/2 X 11-1/4



BARRETO

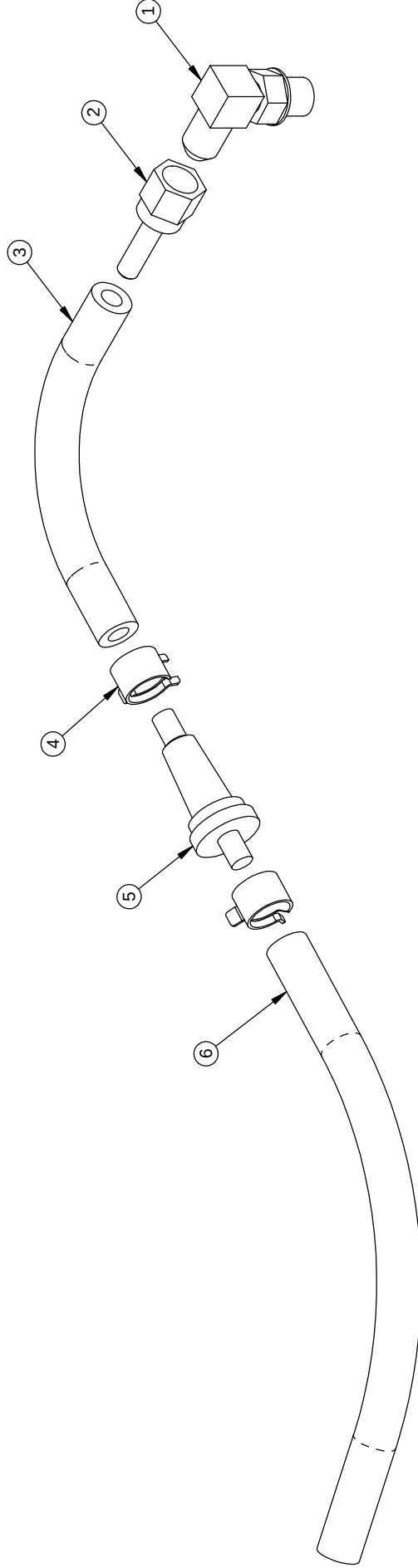
TITLE: TINE SHAFT & COVER ASSEMBLY

PRODUCT LINE: 1320 / 1620 DATE: 9-12

SCALE: 1:10 DWG# 00284-SPL

SHEET 1 OF 1

REF.	QTY.	PART NO.	DESCRIPTION
1	1	04555	FITTING, 6801-4-4
2	1	04214	FITTING, JS-4-4, HOSE BARB 1/4 X 1/4 SWIVEL
3	1	11350	HOSE, 1/4 INCH GASOLINE, 4L5, 5" LONG
4	2	03062-06	CLAMP, 1/4" FUEL LINE
5	1	04516	BREATHER, FILTER SNAPPER 1435
6	1	11351	HOSE, 1/4 INCH GASOLINE, 4L5, 8" LONG



NOTES:

1. USAGE: 1 PER 1320 & 1620

BARRETO

TITLE: BREATHER HOSE ASSEMBLY

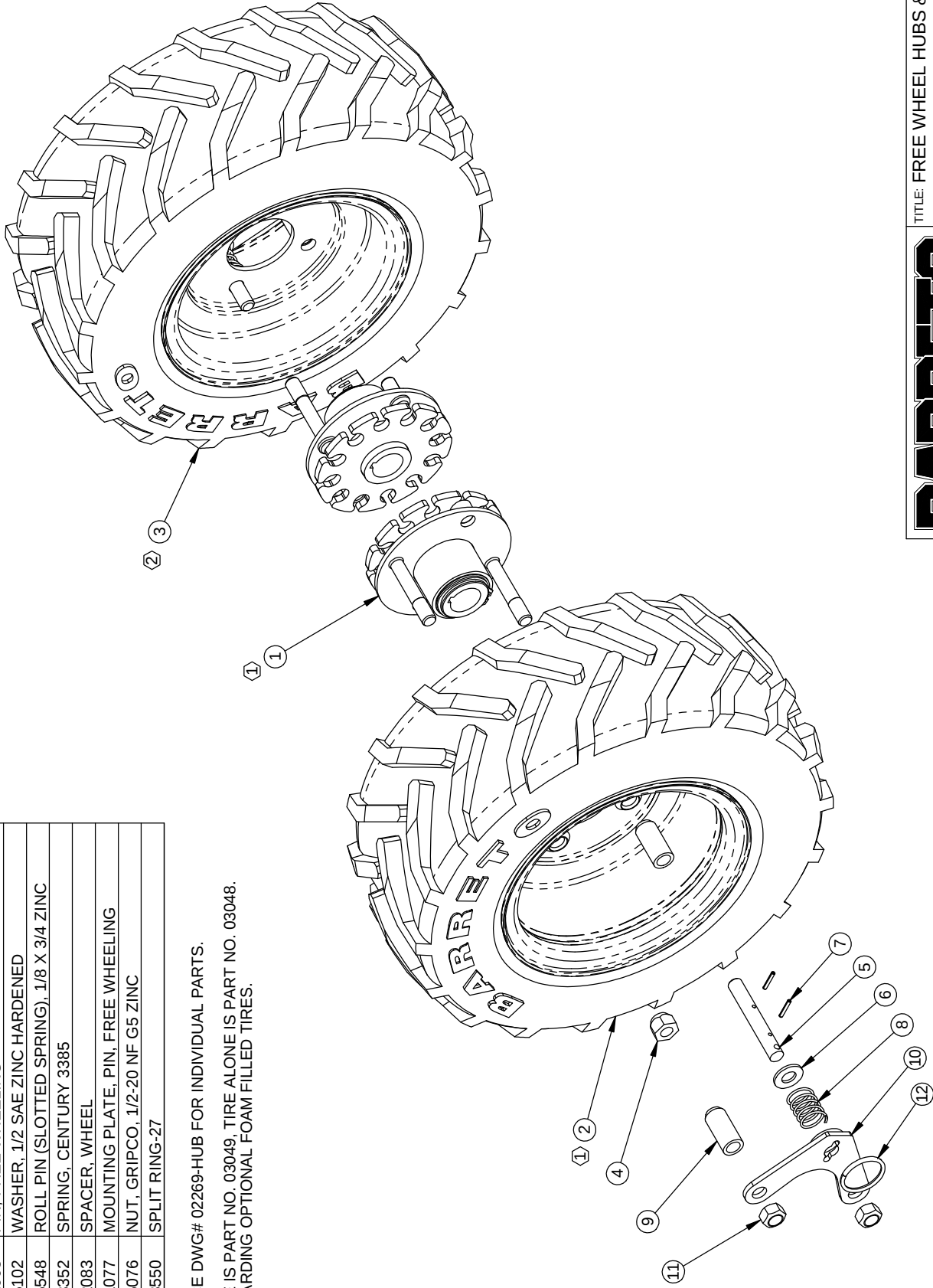
PRODUCT LINE: 1320 & 1620 DATE: 4/26/07

SCALE: 1:1.8 DWG# 04517 R1
SHEET 1 OF 1

REF.	QTY.	PART NO.	DESCRIPTION
1	2	02269-HUB	WHEEL HUB ASSY, 1-1/8" BORE
2	1	03047	TIRE & RIM, TILLER RH, TRENCHER LH, 16 X 6.50 -8
3	1	03046	TIRE & RIM, TILLER LH, TRENCHER RH, 16 X 6.50 -8
4	2	05042	NUT, LUG, 1/2-20 NF
5	2	02068	PIN, FREE WHEELING
6	2	05102	WASHER, 1/2 SAE ZINC HARDENED
7	4	05548	ROLL PIN (SLOTTED SPRING), 1/8 X 3/4 ZINC
8	2	03352	SPRING, CENTURY 3385
9	4	02083	SPACER, WHEEL
10	2	01077	MOUNTING PLATE, PIN, FREE WHEELING
11	4	05076	NUT, GRIPCO, 1/2-20 NF G5 ZINC
12	2	03550	SPLIT RING-27

① REFERENCE DWG# 02269-HUB FOR INDIVIDUAL PARTS.

② RIM ALONE IS PART NO. 03049, TIRE ALONE IS PART NO. 03048.
CALL REGARDING OPTIONAL FOAM FILLED TIRES.



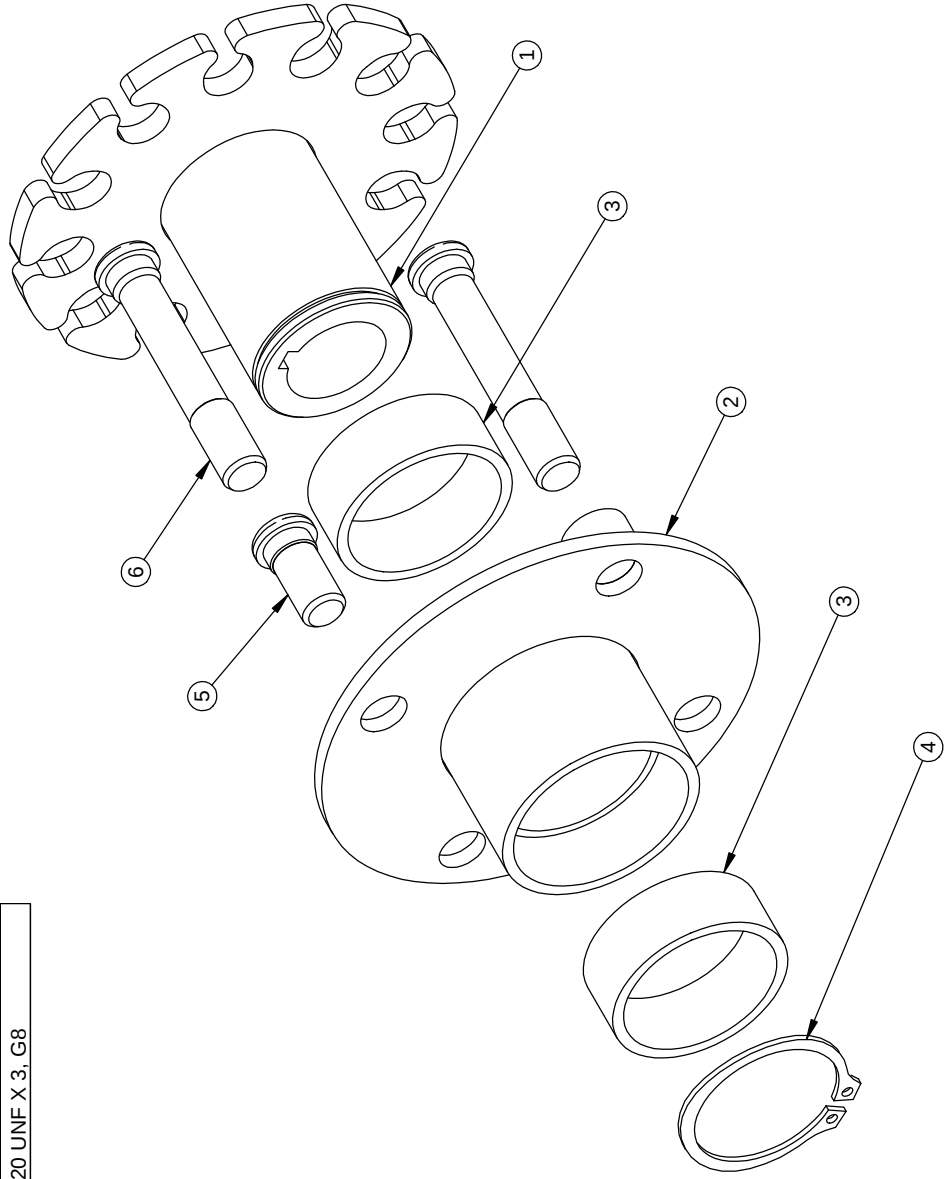
BARRETO

TITLE: FREE WHEEL HUBS & WHEELS

PRODUCT LINE: 1320 & 1620 DATE: 8/9/07

SCALE: 1:5 DWG# 10388
SHEET 1 OF 1

REF.	QTY.	PART NO.	DESCRIPTION
1	1	02269	WHEEL HUB
2	1	01252	FREE WHEEL HUB
3	2	03168	BUSHING, SLEEVE, NYLON, IGUS MSI-2832-12
4	1	05610	SNAP RING, SH-175, 1-3/4" EXTERNAL
5	1	05066	KNURLED STUD, 1/2-20 UNF X 1, G8
6	2	05166	KNURLED STUD, 1/2-20 UNF X 3, G8



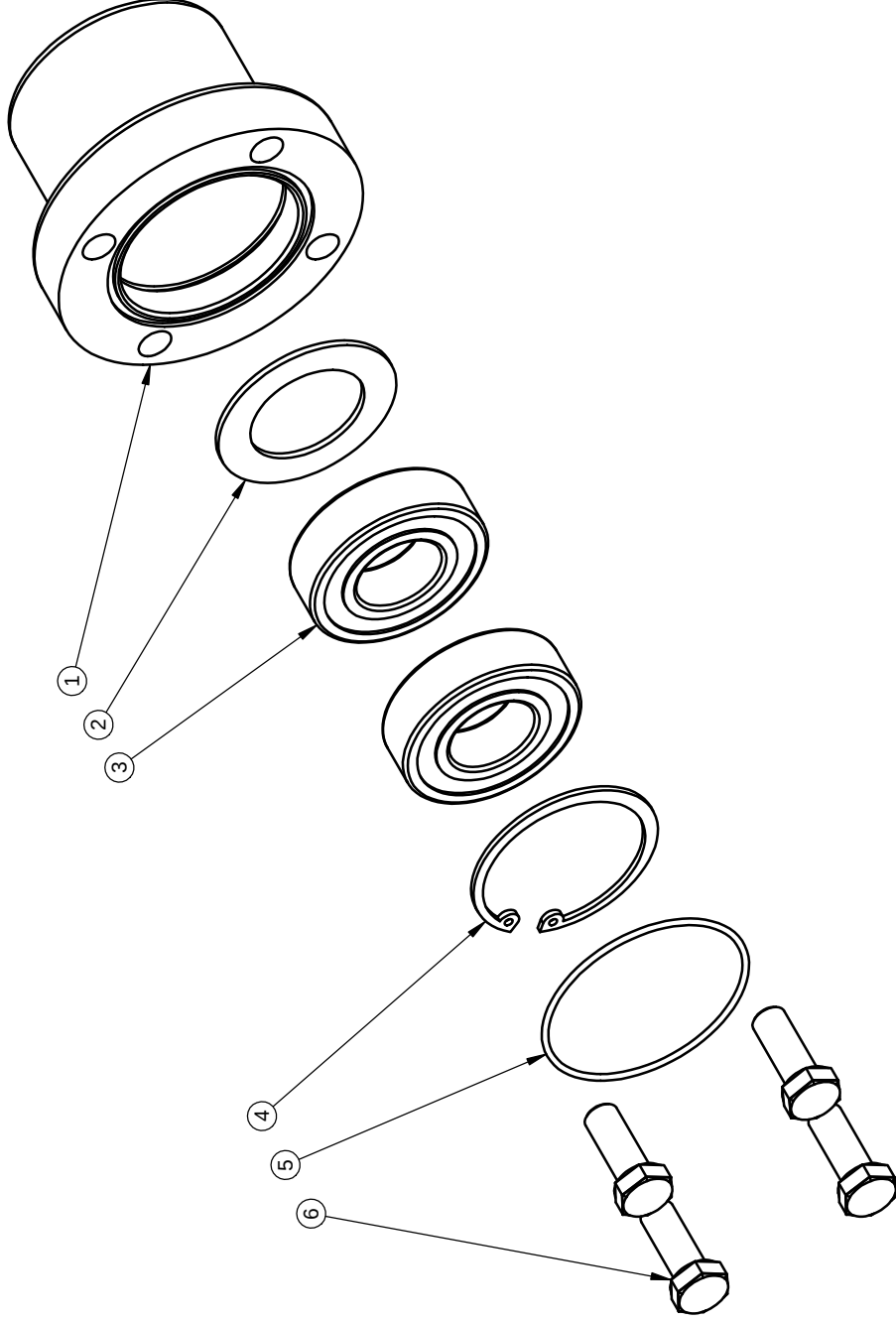
NOTES:

- 1. USAGE: 2 PER 00231 R3, 00256 R1, & 10388.
- 1 OF 00231 R3 PER 1318.
- 1 OF 00256 R1 PER 912, 916 & 918.
- 1 OF 10388 PER 1320 & 1620.



TITLE: WHEEL HUB ASSY, 1-1/8" BORE		
PRODUCT LINE: COMMON	DATE: 8/6/07	
SCALE: 1:2	DWG#	02269-HUB
SHEET 1 OF 1		

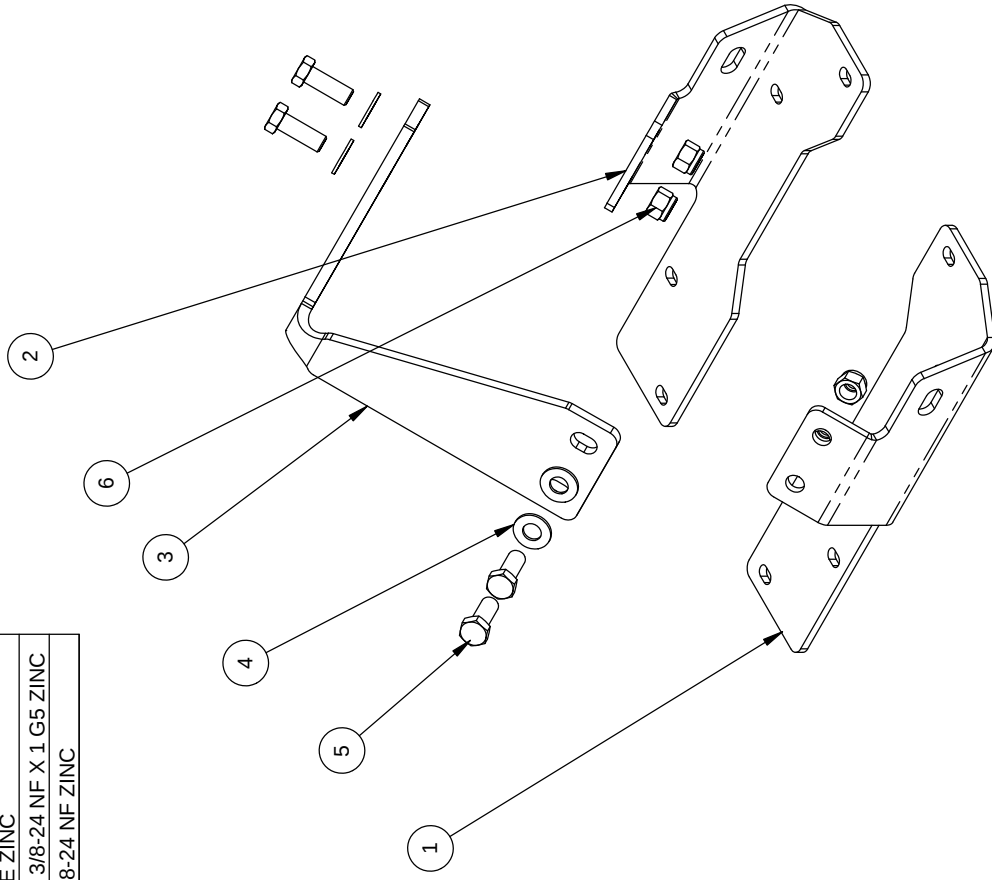
REF	QTY.	PART NO.	DESCRIPTION
1	1	10142	OUTBOARD BEARING HOUSING, 4 BOLT
2	1	01026	SHIELD, OUTBOARD BEARING
3	2	03043	BALL BEARING, 6205
4	1	05024	SNAP RING, HO-200, 2" INTERNAL
5	1	03904	O-RING, 2-035, 2-3/8 OD X 1/16 SECTION
6	4	05059	HH CAP SCREW, 3/8-16 NC X 1 G5 ZINC



BARRETO

TITLE: OUTBOARD BEARING ASSEMBLY, 4 BOLT		
PRODUCT LINE: COMMON	DATE: 3/2/04	
SCALE: 1:2	DWG#	10144
SHEET 1 OF 1		

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	12102-R	LIFT MOUNT, RT
2	1	12102-L	LIFT MOUNT, LEFT
3	1	12101	LIFT LOOP
4	4	05101	WASHER, 3/8 SAE ZINC
5	4	05056	HH CAP SCREW, 3/8-24 NF X 1 G5 ZINC
6	4	05072	NUT, NYLOCK, 3/8-24 NF ZINC



BARRETO

TITLE: LIFT EYE, BOLT-ON

PRODUCT LINE: 1320 / 1620 DATE: 06-14

SCALE: 1:4

SHEET 1 OF 1 DWG# A1555

1320/1620 Tiller decals

P/N 03040



P/N 03040-01



P/N 03040-02



P/N 03040-03



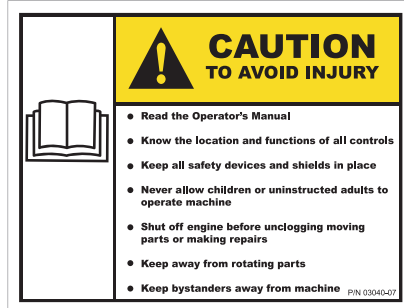
P/N 03040-04



P/N 03040-06



P/N 03040-07



P/N 03040-08



P/N 03040-11



P/N 03040-09



P/N 03040-10



P/N 03040-57



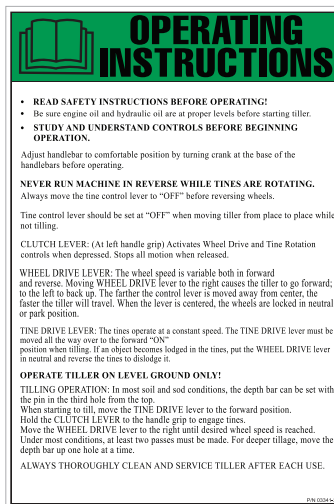
P/N 03040-59



P/N 03341-07



P/N 03341-22



P/N 03341-23

