

PARTS MANUAL



 **WHITEMAN** SERIES

MODELS

JH55C

JH90C

JS60C

**WALK-BEHIND TROWEL
(HONDA/ROBIN-SUBARU GASOLINE ENGINE)**

Revision #1 (08/30/19)

Original Version

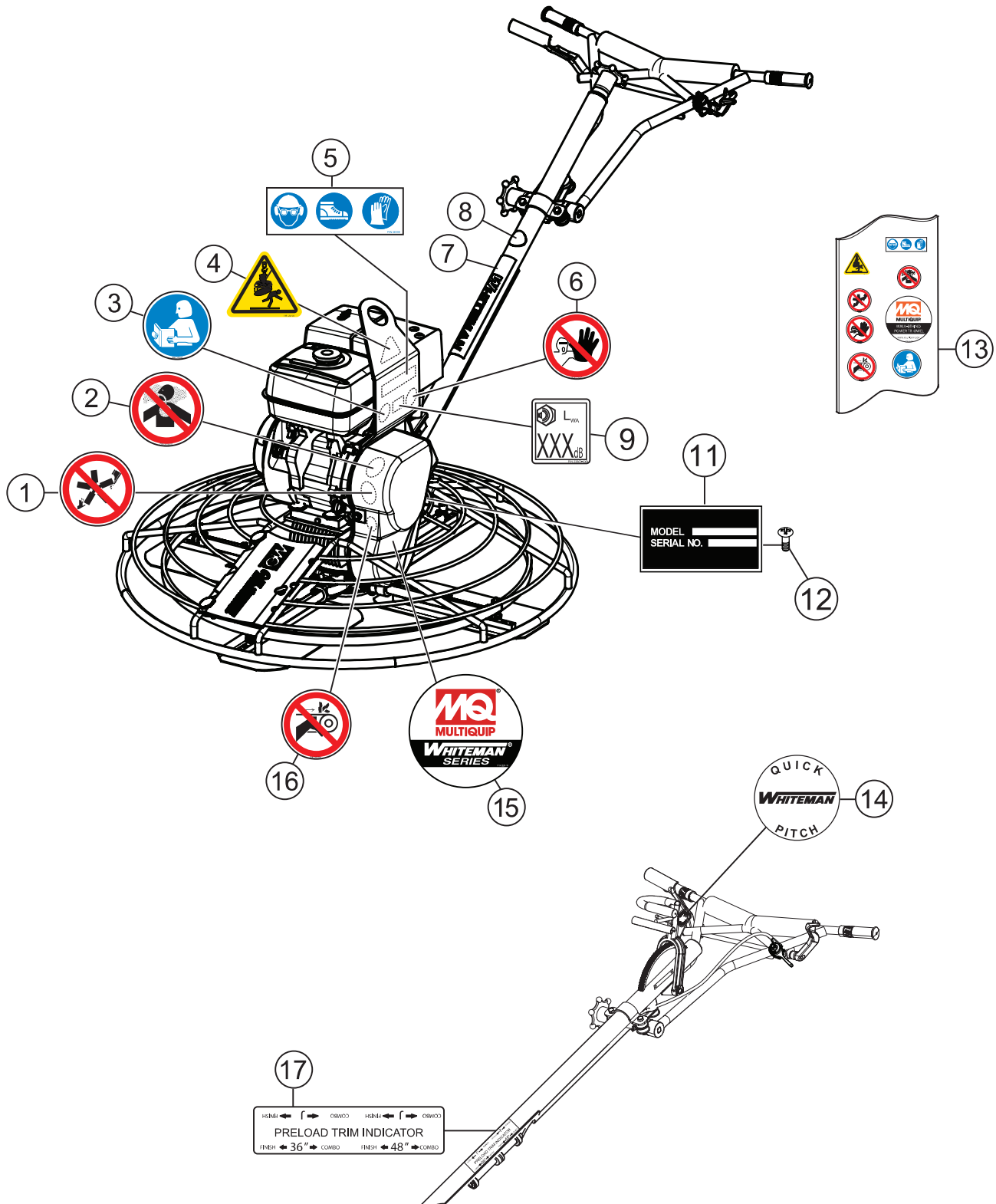
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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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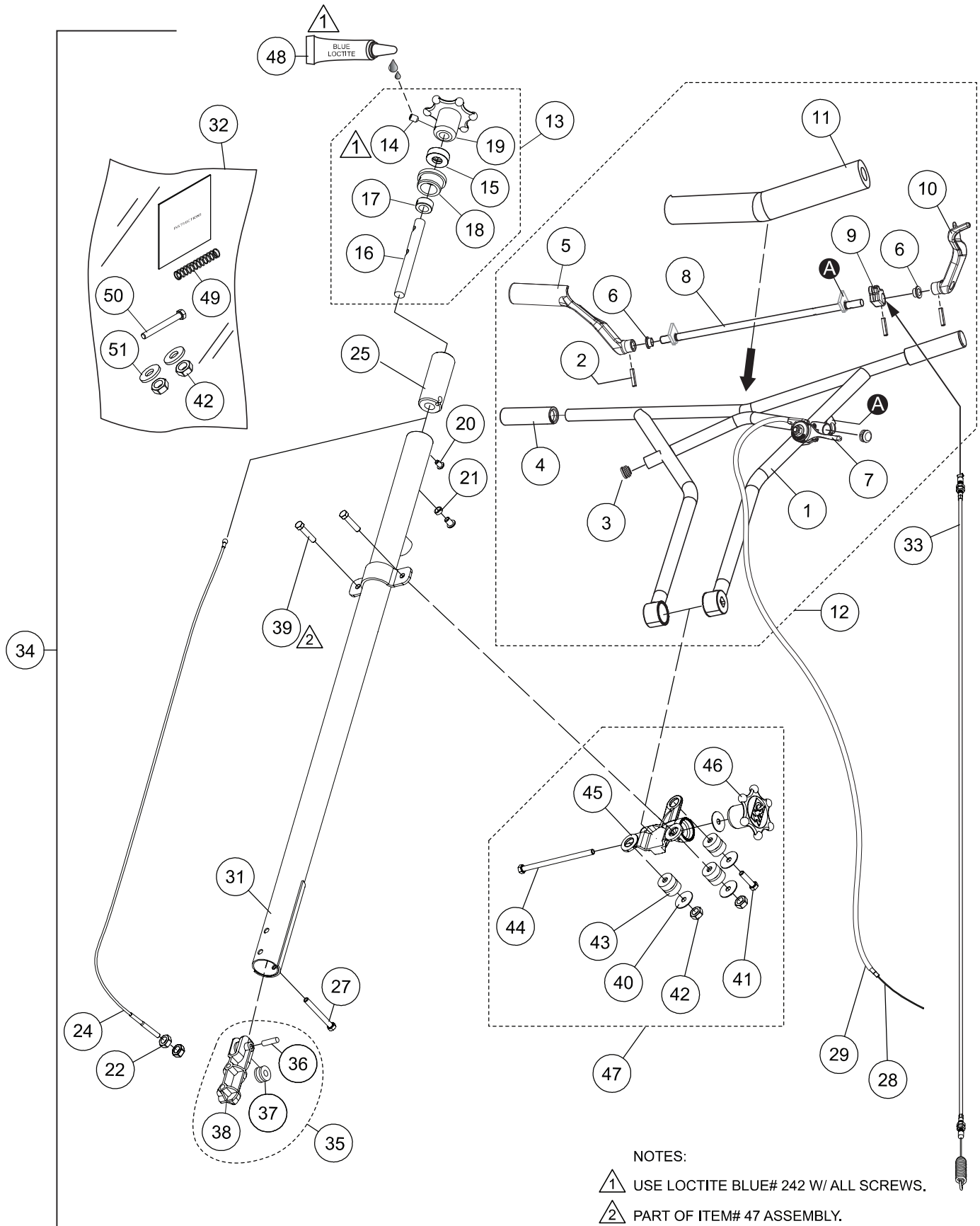
NAMEPLATE AND DECALS



NAMEPLATE AND DECALS

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1#	23698	ISO DECAL: ROTATING BLADE HAZARD, 2.00" DIA.	1	
2#	23810	ISO DECAL: INHALATION HAZARD, 2.00" DIA.	1	
3#	23699	ISO DECAL: READ MANUAL, 2.00" DIA.	1	
4#	23700	ISO DECAL: LIFTING/CRUSH, 2.4" X 2.0"	1	
5#	36099	ISO DECAL: PROTECTIVE CLOTHING, 3.50" X 1.13"	1	
6#	23701	ISO DECAL: ASK FOR TRAINING, 2.00" DIA.	1	
7	2942	DECAL: MQ WHITEMAN 13" WHITE	1	
8	1492	DECAL: FINISHER HANDLE	1	
9	23803-108	ISO DECAL: GUARANTEED SOUND 108 dbA.....	1	JH55C ONLY
9	23803-111	ISO DECAL: GUARANTEED SOUND 111 dbA.....	1	JH90C AND JS60C ONLY
11		DECAL: SERIAL PLATE	1	CONTACT MQ PARTS DEPT.
12	4014	SCREW, 2-3/16" P-K TYPE U-DRIVE	2	
13	22038	DECAL KIT	1	INCLUDES ITEMS W/#
14	12405	DECAL: WHITEMAN QUICK PITCH	1	
15#	22070	DECAL: MQ WHITEMAN POWER TROWEL, 3.78" DIA.	1	
16#	23704	ISO DECAL: GUARD WARNING 2.00" DIA.	1	
17	1735	DECAL: PRELOAD TRIM INDICATOR	1	

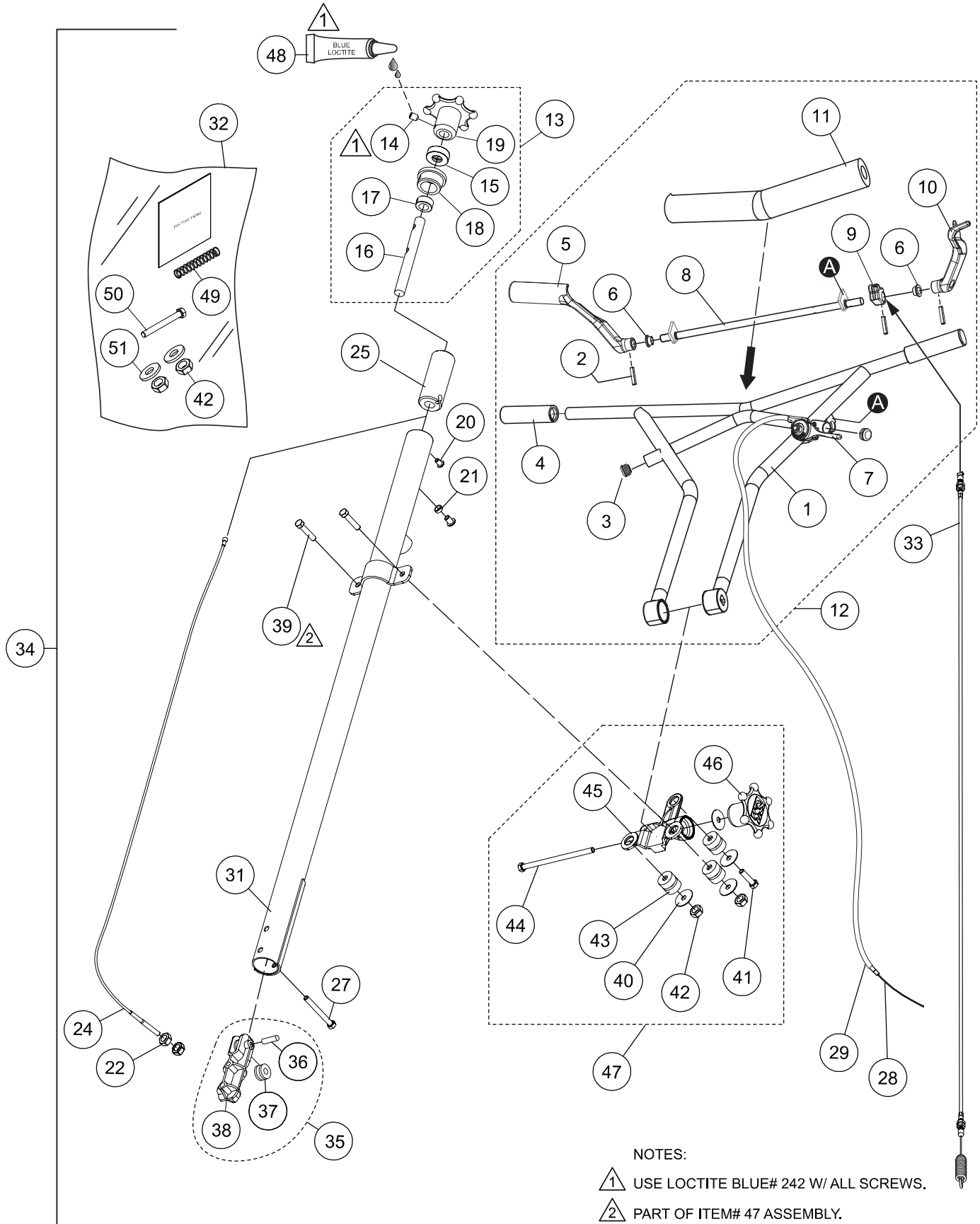
STANDARD HANDLE ASSY.



STANDARD HANDLE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1#%	30155	HANDLE	1	
2#%	30203	PIN, ROLL, 3/16" X 7/8"	3	
3#%	22208	PLUG, THROTTLE LEVER	2	
4#%	30174	GRIP	2	
5#%	30169	CASTING, RIGHT PADDLE	1	
6#%	30173	BUSHING, FLANGED, BRONZE, .51" ID X .625" OD	2	
7#%	22732	THROTTLE LEVER ASSY.	1	
8#%	30172	ROD, TORSION BAR	1	
9#%	30171	CASTING, CABLE PULL	1	
10#%	30170	CASTING, LEFT PADDLE	1	
11#%	22166	COVER, VIBE CONTROL HANDLE PAD	1	
12#	30156	UPPER HANDLE ASSY.....	1	INCLUDES ITEMS W/%
13#	20819	HAND WHEEL ASSY., PITCH CONTROL.....	1	INCLUDES ITEMS W/\$
14#\$	0122 C	SCREW, SHS 3/8"-16 X 1/2"	1	
15#\$	0281	BEARING, THRUST	1	
16#\$	1478	SHAFT, TROWEL CONTROL	1	
17#\$	3615	COLLAR, SET 3/4" ID W/SET SCREW	1	
18#\$	20282	BEARING, TROWEL CONTROL	1	
19#\$	20817	WHEEL, HANDLE	1	
20#	0786	SCREW, BHC 1/4"-20 X 3/8" NYL PATCH, NP	2	
21#	0786 A	SPACER, SLIDE BLOCK GUIDE, .360" X 17/64" X 1/8"L	1	
22#	1116	NUT, BRASS JAM 5/16"-18	2	
24#	20285	CABLE, CONTROL	1	
25#	20287	SLIDE BLOCK, TROWEL CONTROL	1	
27#	21017	SCREW, HHC 3/8"-16 X 3-1/4" FULL THRD GRD 5	1	
28#	21172	CABLE, THROTTLE	1	
29#	21173	HOUSING, THROTTLE CABLE	1	
31#	22095-P	HANDLE, W/ FIN VIBE CONTROL	1	
32#	30220	KIT, HANDLE INSTALLATION	1	INCLUDES ITEMS W/◆
33#	30230	CABLE, INSTACLUTCH	1	
34	SXHC	MAIN HANDLE ASSY.	1	INCLUDES ITEMS W/# CONTACT UNIT SALES DEPT.

STANDARD HANDLE ASSY.



STANDARD HANDLE ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
35#	20280	BLOCK, PITCH CONTROL	1.....	INCLUDES ITEMS W/@
36#@	20279	PIN, SUPPORT BLOCK	1	
37#@	1118	PULLEY, PITCH CABLE ASSY.	1	
38#@	20275	BLOCK, SUPPORT	1	
39#❖	1665	SCREW, HHC 3/8"-16 X 2"	2	
40#❖	3233	WASHER, FENDER, 1.5" OD X 3/8" ID	4	
41#❖	9154	SCREW, HHC 3/8"-16 X 1-3/4"	1	
42#❖◆	10133	NUT, NYLOC 3/8"-16	4	
43#❖	22059	ISOLATOR, VIBRATION	3	
44#❖	22167	SCREW, HHC 3/8"-16 X 6.5" GRD 5	1	
45#❖	22206	CHASSIS, CAST VIBRATION ISOLATOR	1	
46#❖	20439	WHEEL ASSY., HAND	1	
47#	30206	VIBE CHASSIS ASSY.....	1.....	INCLUDES ITEMS W/❖
48#	1477	LOCTITE, BLUE #242	AR	
49#◆	21746	SPRING, PRIMARY THROTTLE RETURN	1	
50#◆	1493	SCREW, HHC 3/8"-16 X 3-1/4"	1	
51#◆	10136	WASHER, 3/8" FLAT	2	

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NOTES:

1 PART OF ITEM# 13 ASSEMBLY.

QUICK PITCH HANDLE ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1#%	30155	HANDLE	1	
2#%	30203	PIN, ROLL, 3/16" X 7/8"	3	
3#%	22208	PLUG, THROTTLE LEVER	2	
4#%	30174	GRIP	2	
5#%	30169	CASTING, RIGHT PADDLE	1	
6#%	30173	BUSHING, FLANGED, BRONZE	2	
7#%	22732	THROTTLE LEVER ASSY.	1	
8#%	30172	ROD, TORSION BAR	1	
9#%	30171	CASTING, CABLE PULL	1	
10#%	30170	CASTING, LEFT PADDLE	1	
11#%	22166	COVER, VIBE CONTROL HANDLE PAD	1	
12#	30156	UPPER HANDLE ASSY. INSTACLUTCH	1	INCLUDES ITEMS W/%
13#	30206	VIBE CHASSIS ASSY.....	1	INCLUDES ITEMS W/@
14#@	20439	WHEEL ASSY., HAND	1	
15#@	22059	ISOLATOR, VIBRATION	3	
16#@	3233	WASHER, FENDER, 1.5" OD X 3/8" ID	4	
17#@◆	10133	NUT, NYLOC 3/8"-16	4	
18#@	22206	CHASSIS, CAST VIBRATION ISOLATOR	1	
19#@	9154	SCREW, HHC 3/8"-16 X 1-3/4"	1	
20#@	22167	SCREW, HHC 3/8"-16 X 6-1/2" GRD 5	1	
21#	1116	NUT, BRASS JAM 5/16"-18	2	
22#	20297	CABLE, CONTROL	1	
23#	30220	KIT, INSTACLUTCH HANDLE INSTALLATION	1	INCLUDES ITEMS W/◆
24#	1717	SCREW, Q.P. TRIM ADJUSTMENT	1	
25#	1718	NUT , Q.P. TRIM CONTROL ADJUSTMENT	1	
26#	1719	BUSHING, PIVOT PLATE	2	
27#	1729	PIN, ROLL 3/16" X 1-1/4"	2	
28#	1732	Q.P. ADJUSTMENT PIN	1	
29#	1733	WASHER, 1/2" X 1/32"	2	
30#	1737	RING, SNAP	1	
31#	4568	PIN, ROLL 3/16" X 1"	1	
32#	20270	Q.P. ADJUSTMENT BLOCK	1	
33#	20280	BLOCK, PITCH CONTROL	1	INCLUDES ITEMS W/◇
34#	21017	SCREW, HHC 3/8"-16 X 3-1/4" FULL GRD 5	1	
35#	20390	TRIGGER, QP ASSY.	1	INCLUDES ITEMS W/\$
37#	22060-P	MAIN HANDLE, Q.P. VIBE CONTROL	1	
38#	1715	Q.P. SPRING CENTER BALANCE	1	
39#◇	1118	PULLEY, PITCH CABLE HANDLE	1	
40#◇	20279	PIN, SUPPORT BLOCK 3/8" X 1.59"	1	
41#◇	20275	BLOCK, SUPPORT	1	
42#\$	1706	SPRING, COMPRESSION	1	
43#\$	1724	GRIP, HANDLE	1	
44#\$	1729	PIN, ROLL 3/16" X 1-1/4"	1	
46#\$	20437	PIN, Q.P. LATCH	1	
47#\$	1746	TRIGGER, Q.P.	1	

This diagram is an exploded view of a mechanical assembly, likely a bicycle headlight or similar component. It shows the following parts and sub-assemblies:

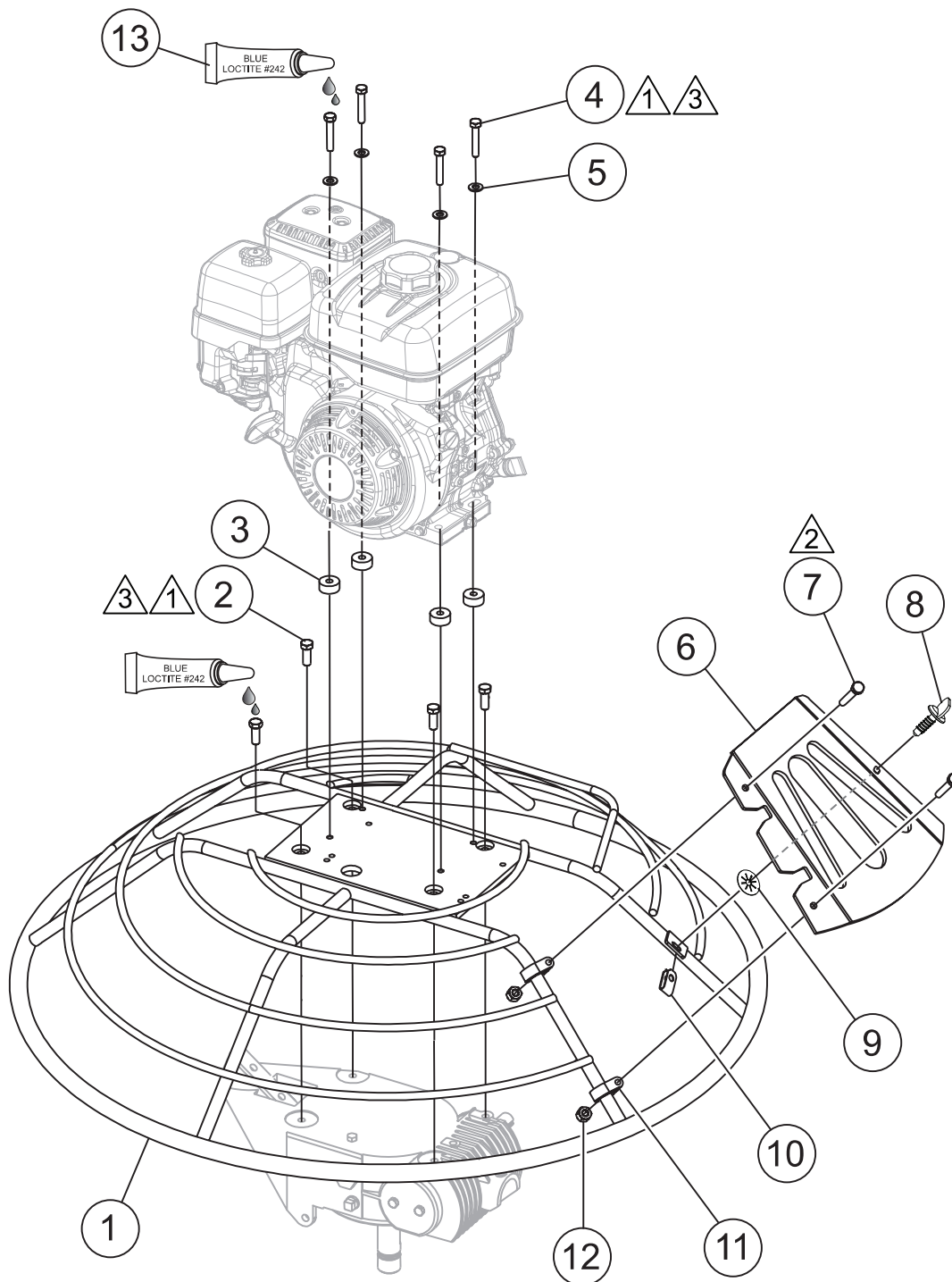
- Top Left:** A bracket assembly (35) with mounting points (43, 44, 47, 48, 42, 46, 27, 31, 58).
- Top Right:** A handlebar assembly (11) with a clamp (9), a bracket (10), and a cable (10).
- Center:** A main frame assembly (1) with a handlebar (4), a cable (3), a bracket (2), a cable (5), a bracket (6), a cable (8), a bracket (7), a cable (12), and a bracket (57).
- Bottom Left:** A spring assembly (38) with a bracket (22), a cable (32), a bracket (28), a cable (24), a bracket (25), a cable (26), a bracket (29), a cable (30), a bracket (31), a cable (33), a bracket (34), a cable (37), a bracket (39), a cable (40), a bracket (41), a cable (42), a bracket (43), a cable (44), a bracket (46), a cable (47), a bracket (48), a cable (49), a bracket (50), a cable (51), a bracket (52), a cable (53), a bracket (54), a cable (55), a bracket (56), a cable (57), a bracket (58), a cable (59), a bracket (60), a cable (61), a bracket (62), a cable (63), and a bracket (64).
- Bottom Right:** A cable assembly (13) with a bracket (14), a cable (15), a bracket (16), a cable (17), a bracket (18), a cable (19), a bracket (20), a cable (21), a bracket (22), a cable (23), a bracket (24), a cable (25), a bracket (26), a cable (27), a bracket (28), a cable (29), a bracket (30), a cable (31), a bracket (32), a cable (33), a bracket (34), a cable (35), a bracket (36), a cable (37), a bracket (38), a cable (39), a bracket (40), a cable (41), a bracket (42), a cable (43), a bracket (44), a cable (45), a bracket (46), a cable (47), a bracket (48), a cable (49), a bracket (50), a cable (51), a bracket (52), a cable (53), a bracket (54), a cable (55), a bracket (56), a cable (57), a bracket (58), a cable (59), a bracket (60), a cable (61), a bracket (62), a cable (63), and a bracket (64).

NOTES:
 1 PART OF ITEM# 13 ASSEMBLY.

QUICK PITCH HANDLE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
48#\$	20389	HANDLE, QP	1	
49#❖	20269	BLOCK, CABLE SLIDE	1	
50#❖	20443	ARM, SLIDE CONTROL	1	
51#❖	1709	Q.P. DOGBONE	1	
52#❖	20276	PIN, ROLL 1/4" X 1-3/4"	1	
53#❖	1731	PIN, ROLL 1/4" X 3/4"	1	
54#	21173	HOUSING, THROTTLE CABLE	1	
55#	21172	CABLE, THROTTLE	1	
57#	30230	CABLE, INSTACLUTCH	1	
58#	1711	SHAFT, CONTROL Q.P.	1	
59	QXHC	MAIN HANDLE ASSY.	1	INCLUDES ITEMS W/# CONTACT UNIT SALES DEPT.
60#◆	21746	SPRING, PRIMARY THROTTLE RETURN	1	
61#◆	1493	SCREW, HHC 3/8"-16 X 3-1/4"	1	
62#◆	10136	WASHER, 3/8" FLAT	2	
63#	20293	LINKAGE, Q.P. CONTROL.....	1	INCLUDES ITEMS W/❖
64#@	1665	SCREW, HHC 3/8"-16 X 2"	2	

GUARD RING AND ENGINE MOUNTING ASSY.



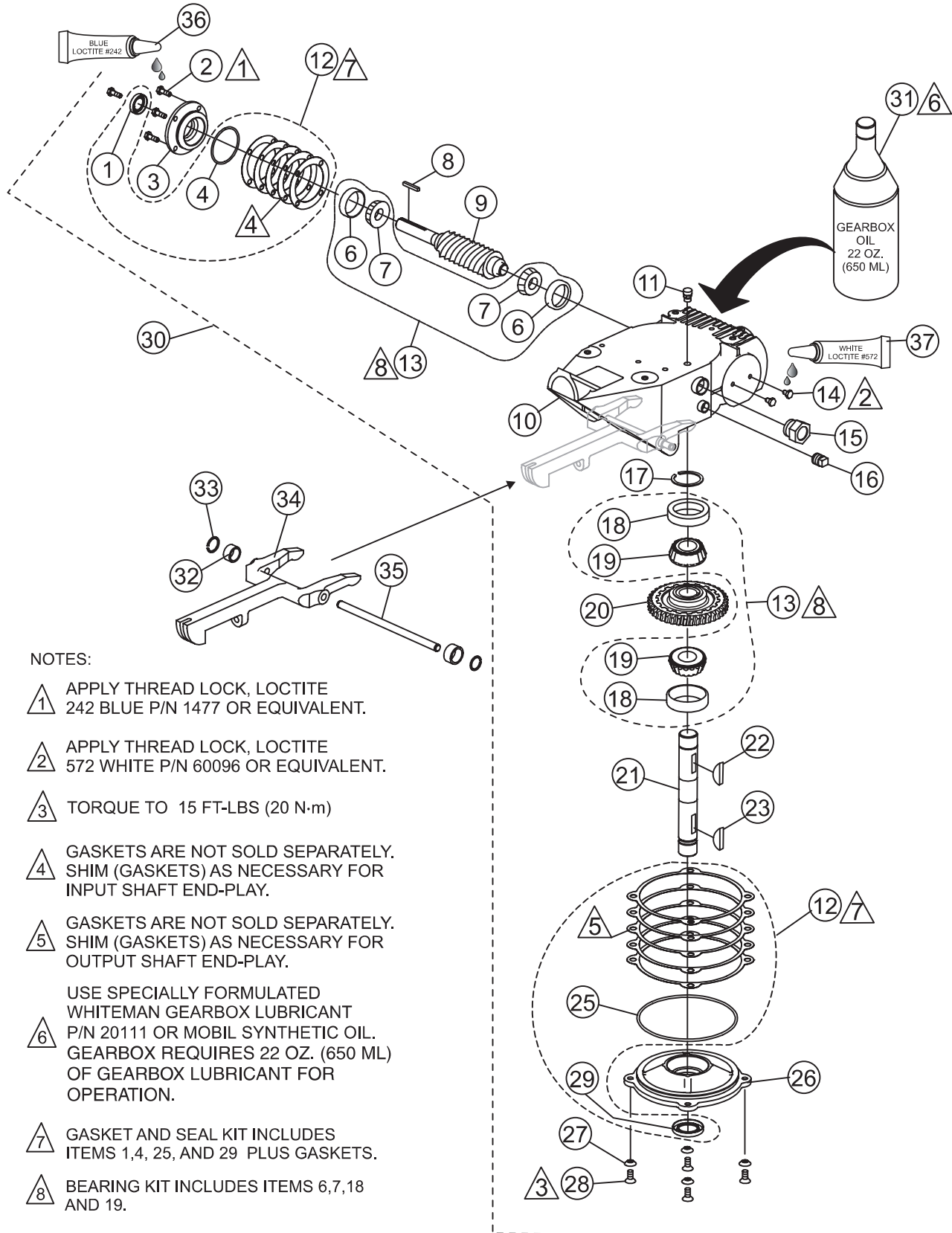
NOTES:

- ① USE LOCTITE BLUE# 242 W/ ALL SCREWS.
- ② TORQUE TO 6.25 FT.-LBS. (8.5 N·m)
- ③ TORQUE TO 23 FT.-LBS. (31 N·m)

GUARD RING AND ENGINE MOUNTING ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	21965	GUARD RING	1	
2	0205	SCREW, HHC 3/8"-16 X 1"	4	
3	21996	SPACER, 1 OD X .328 ID X .438 THK.....	4	JH55C AND JS60C ONLY
3	13351	WASHER, FLAT 3/8" EXT THICK HIGH STRGTH	4	JH90C ONLY
4	22024	SCREW, HHC 5/16"-24 X 1-3/4" GRD 5 ZN.....	4	JH55C AND JS60C ONLY
4	1391	SCREW, HHC 5/16"-24 X 1-1/2" ZINC	4	JH90C ONLY
5	933241	WASHER, FLAT SAE 5/16" GRD 9 YZ	4	
6	21880	ACCESS PANEL	1	
7	26250	SCREW, HHC 1/4"-20 X 1-3/4"	2	
8	21893	SCREW, FAST LEAD	1	
9	21986	WASHER, FAST LEAD-STAINLESS	1	
10	21894	CLIP, FAST LEAD	1	
11	21922	CLAMP, 0.625" ID PIPE	2	
12	10024	NUT, NYLOC 1/4"-20	2	
13	1477	BLUE LOCTITE, #242	AR	

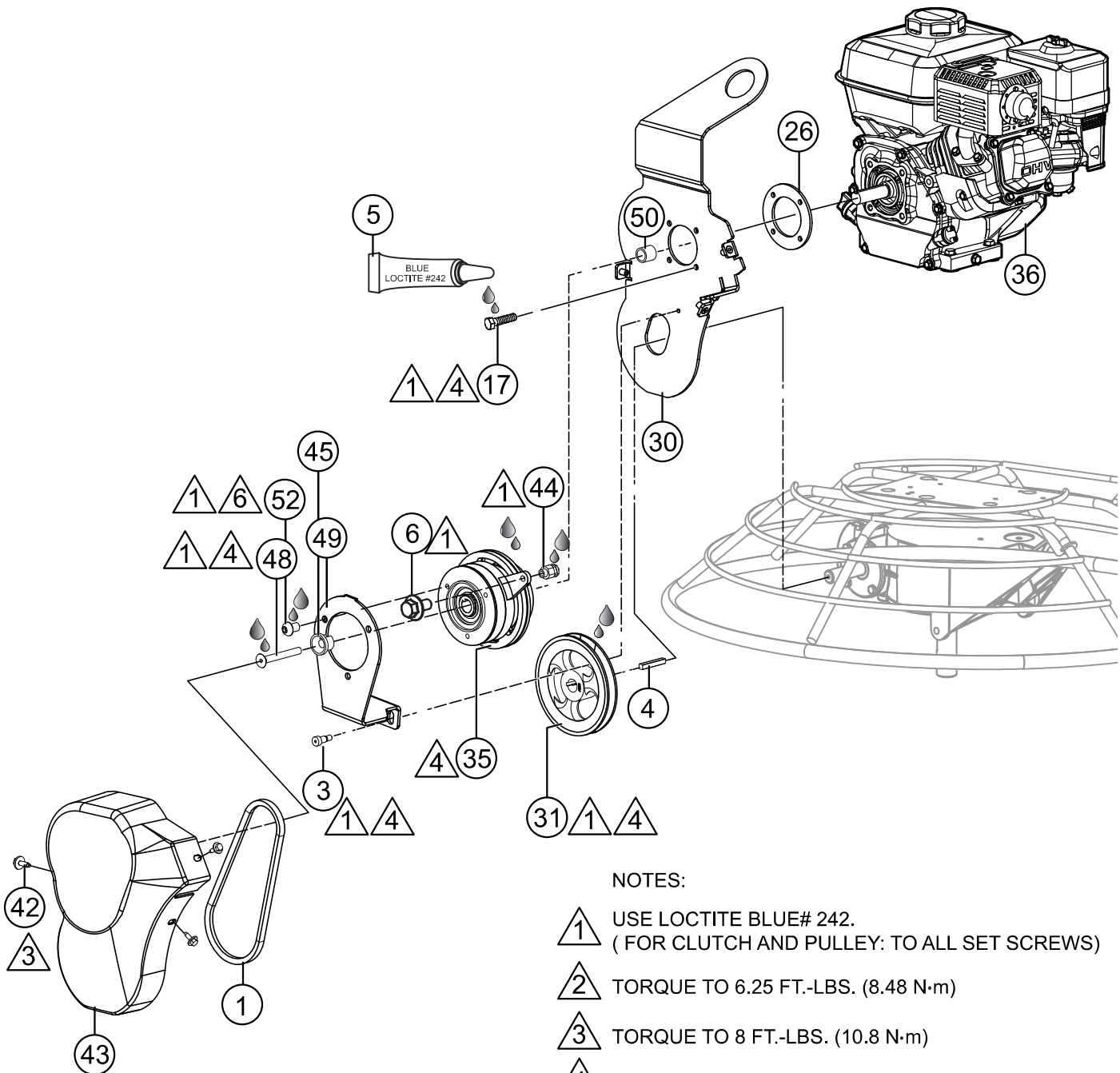
GEARBOX ASSY.



GEARBOX ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1%\$	0753	SEAL, OIL	1	
2%	0131 A	SCREW, HHC 1/4"-20 X 3/4"	4	
3%	12876	FLANGE, INPUT SHAFT	1	
4%\$	20395	O-RING, 2"	1	
6%#	20466	BEARING, CUP, TIMKEN #M11910	2	
7%#	20465	BEARING, CONE, TIMKEN #LM11949	2	
8%	0627	KEY, SQ 3/16" X 1-1/4"	1	
9%	1851	GEAR, WORM "B" INPUT SHAFT	1	
10%	12874	CASE, WORM GEAR	1	
11%	21218	VENT, AIR	1	
12	21046	GASKET/SEAL KIT.....	1	INCLUDES ITEMS W/\$
13	21047	BEARING KIT	1	INCLUDES ITEMS W/#
14%	20476	SCREW, HHC 1/4"-28 X 3/8"	2	
15%	21033	SIGHT GLASS, 3/4" M PIPE STEEL	1	
16%	0121 A	FITTING, PLUG 3/8" MP SQ HEAD	1	
17%	1138	RING, SNAP	1	
18%#	20475	BEARING, CUP TIMKEN #M86610	2	
19%#	20474	BEARING, CONE TIMKEN #M86647	2	
20%	1140	GEAR, WORM, COMPOSITE	1	
21%	20470	SHAFT, OUTPUT	1	
22%	1139	KEY, WOODRUFF #810	1	
23%	1238	KEY, WOODRUFF #1012	1	
25%\$	20396	O-RING	1	
26%	12875	COVER, GEARBOX	1	
27%	10235	WASHER, C/S EXT. SHKP	4	
28%	20875	SCREW, FHSC 5/16"-18 X 3/4"	4	
29%\$	0254	SEAL, OIL	1	
30	20407	GEARBOX ASSY.	1	INCLUDES ITEMS W/%
31	20111	OIL, MOBIL SYNTHETIC SHC634, 22 OZ. (650 ML)	2	
32	22292	SPACER, 0.5" X 0.402" X .25"L UNTREATED	2	
33	20802	RING, SNAP	2	
34	1150	YOKE ARM	1	
35	20801	PIN, YOKE	1	
36	1477	LOCTITE, BLUE #242	AR	
37	60096	LOCTITE, WHITE #572	AR	

ENGINE AND CLUTCH ASSY.



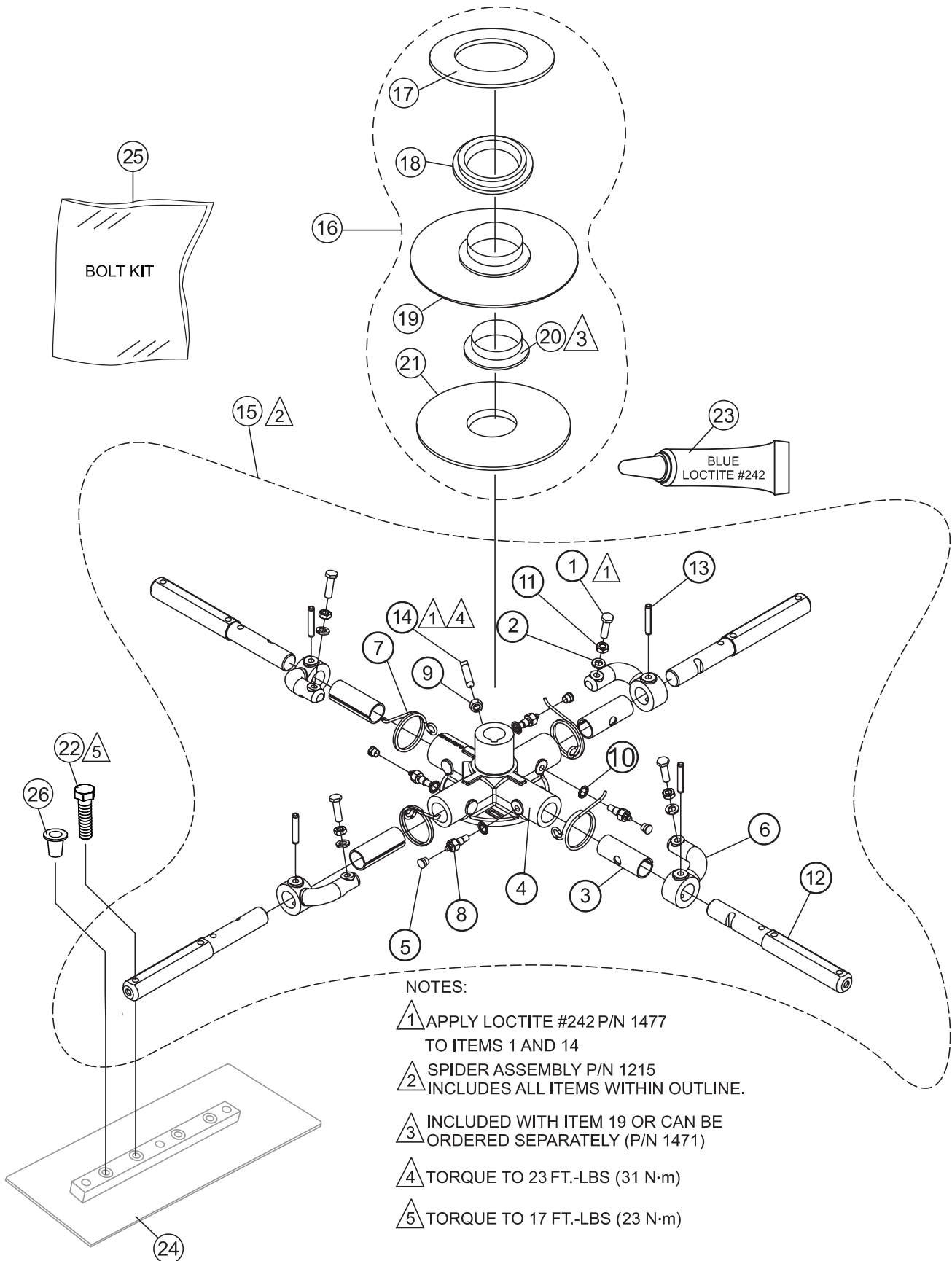
NOTES:

-  USE LOCTITE BLUE# 242.
(FOR CLUTCH AND PULLEY: TO ALL SET SCREWS)
-  TORQUE TO 6.25 FT.-LBS. (8.48 N·m)
-  TORQUE TO 8 FT.-LBS. (10.8 N·m)
-  TORQUE TO 14.5 FT.-LBS. (19.6 N·m)
-  TORQUE TO 32.75 FT.-LBS. (44.4 N·m)
-  TORQUE TO 13 FT.-LBS. (17.632 N·m)

ENGINE AND CLUTCH ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	0152 3	BELT, A28, GATES HP-II	1	JH55C AND JS60C ONLY
1	1243	BELT, A27, GATES HP-II	1	JH90C ONLY
3	926327	SCREW, SHLDR .375 DIA. X .50 5/16"-18.....	1	JH55C AND JS60C ONLY
4	0627	KEY, 3/16" X 1-1/4"	1	
5	1477	BLUE LOCTITE, #246	AR	
6	22538-001	SCREW, HEX FLANGE, 1/4"-20 X .5,THR ROLL	1	
17	10229	SCREW, HHC 5/16"-24 X 1"	4	
26	21915	SPACER, LIFTING BALE	1	JH55C AND JS60C ONLY
30	21988	LIFTING BALE ASSY.....	1	JH55C AND JS60C ONLY
30	21984	LIFTING BALE ASSY.....	1	JH90C ONLY
31	21994	PULLEY AK59 X 3/4"	1	JH55C AND JS60C ONLY
31	11049	PULLEY, AK49 X 3/4"	1	JH90C ONLY
35	22892	CLUTCH, 3/4" ADJ. SHEAVE	1	JH55C AND JS60C ONLY
35	22891	CLUTCH, 1.0" ADJ. SHEAVE	1	JH90C ONLY
36	22901	ENGINE, HONDA GX160 TIER 3 (4.8 HP)	1	JH55C ONLY
36	22623	ENGINE, HONDA GX270 (9 HP)	1	JH90C ONLY
36	22995	ENGINE, SUBARU (6.0HP).....	1	JS60C ONLY
42	30119	SCREW, 1/4"-20 X 7/8" IND HEX, DOG PT	3	
43	30344	BELT GUARD	1	
44	30202	ANCHOR, SPRING	1	
45	30208	END PLUG	1	JH55C AND JS60C ONLY
45	30240	END PLUG	1	JH90C ONLY
48	30207	SCREW, FHSC, 5/16"-24 X 2-1/2".....	1	JH55C AND JS60C ONLY
48	23965	SCREW, FHSC, 7/16"-20 X 1".....	1	JH90C ONLY
49	30244	BRACKET, FRIC CLUTCH ANTI-ROT	1	JH55 AND JS60C ONLY
49	30200	BRACKET, FRIC CLUTCH ANTI-ROT	1	JH90C ONLY
50	30284	SPACER, INSTACLUTCH, 3/4" SHAFT.....	1	JH55C AND JS60C
50	30236	SPACER, INSTACLUTCH, 1" SHAFT.....	1	JH90C ONLY
52	32448	SCREW, BHC, 5/16"-18 X 1/2"	3	

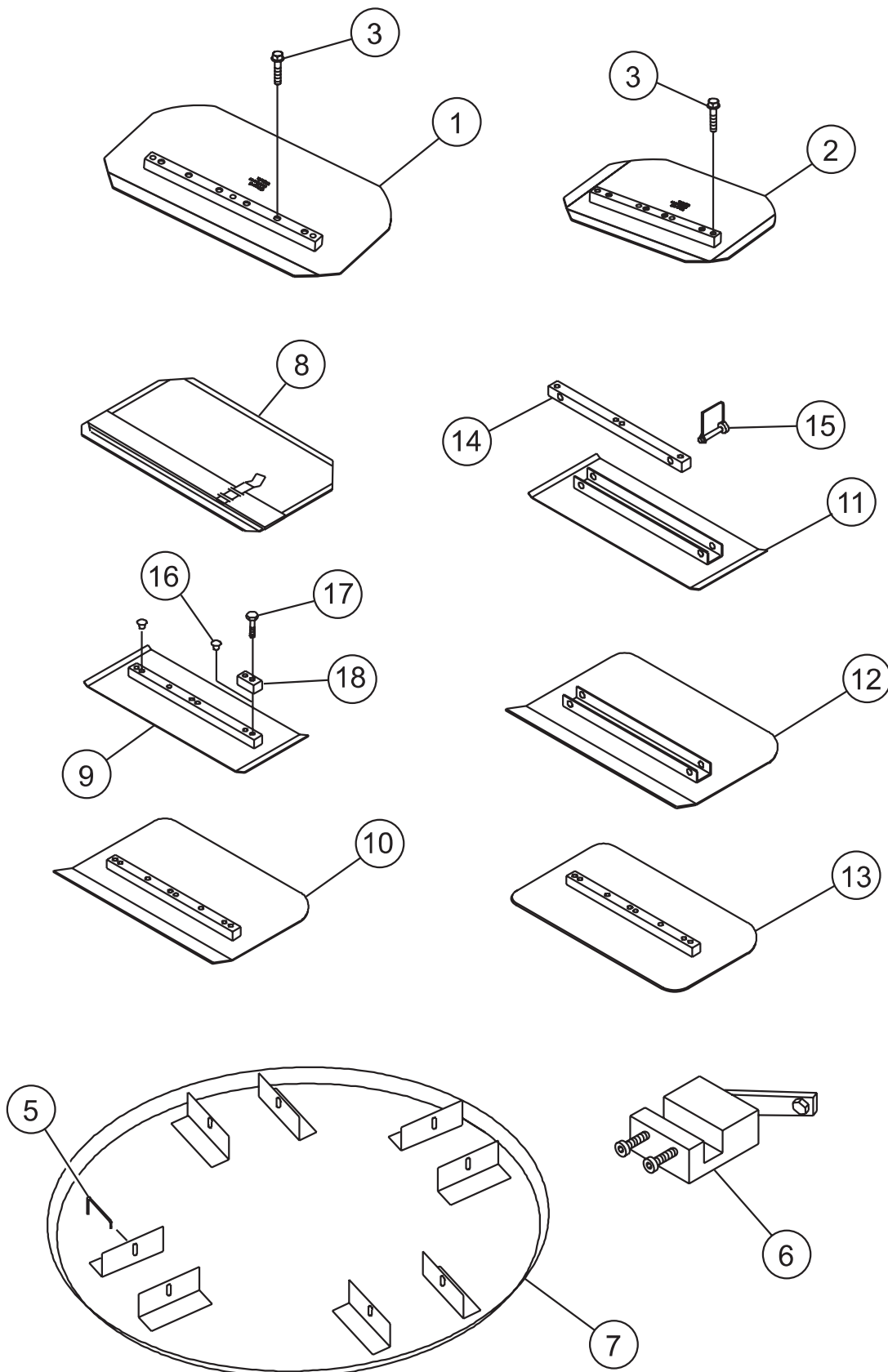
SPIDER ASSY.



SPIDER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1%	0164 B	SCREW, HHC ROUNDED 3/8"-16, FULL THREAD	4	
2%	0166 A	LOCK WASHER 3/8" MED	4	
3%	1157 A	BUSHING, TROWEL ARM	4	
4%	1161-1	SPIDER PLATE, 1-1/8" 4-BLADE, SILVER	1	
5%	1162 A	CAP, GREASE ZERK #2 YELLOW	4	
6%	1163-1	LEVER, TROWEL ARM, RIGHT HAND, SILVER	4	
7%	1316	SPRING, LS ARM RETURN	4	
8%	1322	RETAINING SCREW ASSY.	4	
9%	1456	NUT, HEX FINISH 3/8"-16	1	
10%	1875	WASHER, INT. SHKP. 3/8"	4	
11%	1876	NUT, HEX JAM 3/8"-16 CLASS 2B	4	
12%	2826-1	ARM, TROWEL, J 9-3/4", SILVER	4	
13%	4164	ROLL PIN 5/16" X 1-3/4"	4	
14%	12097	SCREW, SQHS 3/8"-16 X 1-3/4" GRD 8 PLTD.	1	
15	1215	SPIDER PLATE ASSY.	1	INCLUDES ITEMS W/%
16	10968	THRUST COLLAR ASSY.....	1	INCLUDES ITEMS W/\$
17\$	12208	WEAR RING	1	
18\$	12778	FLANGE BEARING	1	
19\$	10793	THRUST COLLAR	1	INCLUDES ITEMS W/#
20\$#	1471	THRUST COLLAR BUSHING	1	
21\$	1154 A	WEAR PLATE	1	
22@	21906	SCREW, HHFS 5/16"-18 X 1-1/2" GRD 5	8	
23	1477	BLUE LOCTITE, #242	AR	
24		BLADE ASSY.....	4	CONTACT UNIT SALES DEPT.
25	23647	KIT, BOLT.....	1	INCLUDES ITEMS W/@
26@	1434	PLUG, BLADE	4	

BLADES AND PAN ASSY.



BLADES AND PAN ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1		BLADE, COMBO 8" X 14"	4.....	(ALL EXCEPT 30")
2		BLADE, COMBO, 8" X 10-1/2"	4.....	(30" TROWEL ONLY)
3	21906	SCREW, HHFS 5/16"-18 X 1-1/2" GRD 5	8.....	ALL
5	20646	LATCH PIN FOR FLOAT PANS	4.....	CONTACT UNIT SALES DEPT.
6	1817	TRWL ARM ADJ. FIXTURE 36" TO 46" MODELS	1.....	CONTACT UNIT SALES DEPT.
7		FLOAT DISC	1.....	CONTACT UNIT SALES DEPT.
8		FLOAT BLADE	4.....	CONTACT UNIT SALES DEPT.
9		FINISH BLADE	4.....	CONTACT UNIT SALES DEPT.
10		COMBO FLOAT AND FINISH BLADE	4.....	CONTACT UNIT SALES DEPT.
11		ENDURO UNIVERSAL FINISH BLADE	4.....	CONTACT UNIT SALES DEPT.
12		ENDURO UNIVERSAL COMBO BLADE	4.....	CONTACT UNIT SALES DEPT.
13		REVERSIBLE COMBO BLADE	4.....	CONTACT UNIT SALES DEPT.
14		UNIVERSAL MOUNTING BAR	4.....	CONTACT UNIT SALES DEPT.
15	QS1869	SNAP PIN FOR QC BLADES	8.....	CONTACT UNIT SALES DEPT.
16	1434	PLUG, BLADE (FINISH BLADE ONLY)	4	
17	0202	SCREW, HHC 5/16"-18 X 1" ZINC	4	
18	0201	LUG, GUARD RING	4	