

PARTS MANUAL



 **WHITEMAN** SERIES

MODELS

BH90C

BH11C

BS90C

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

Revision #1 (08/30/19)

Original Version

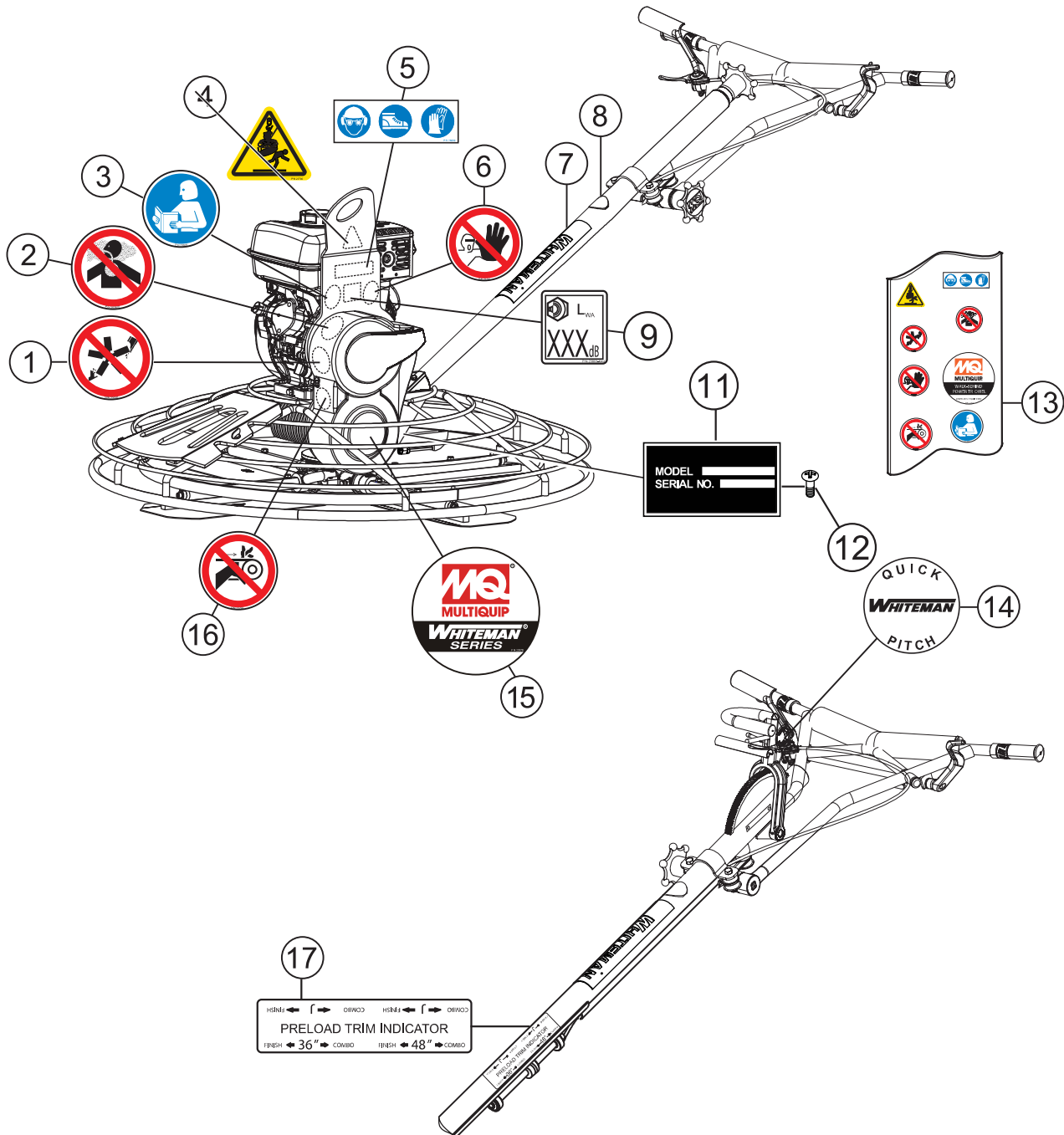
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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

PN: 13405

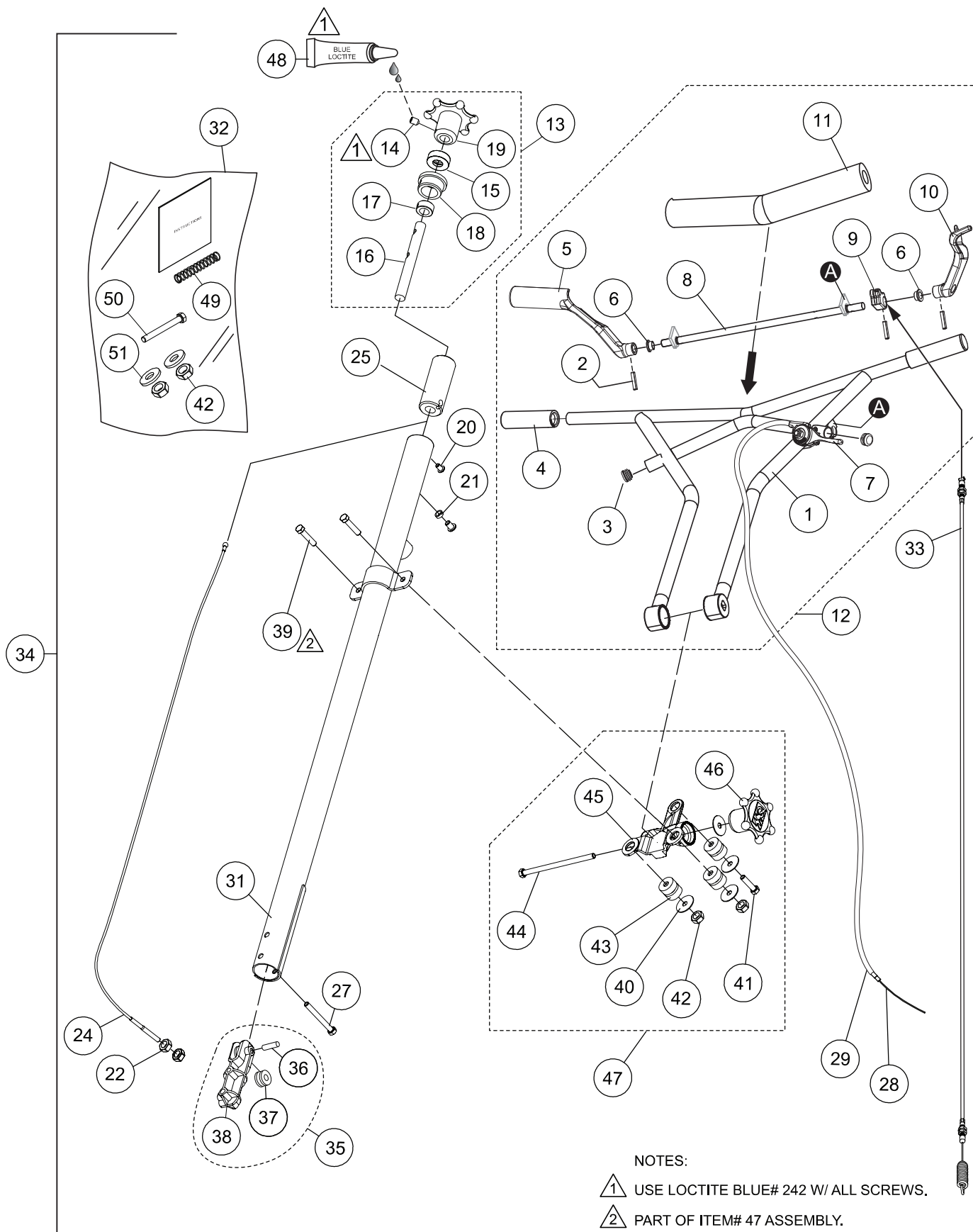
NAMEPLATE AND DECALS



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	23803-122	ISO DECAL: GUARANTEED SOUND 122 dB(A).....	1	BH90C ONLY
9	23803-129	ISO DECAL: GUARANTEED SOUND 129 dB(A).....	1	BH11C ONLY
9	23803-123	ISO DECAL: GUARANTEED SOUND 123 dB(A).....	1	BS90C 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.

Diagram illustrating the assembly of a mechanical component, showing various parts numbered 1 through 51. The assembly includes a main frame (1) and various sub-components, including a cable (34) and a handle (32). The diagram is divided into sections by dashed lines, indicating different assembly stages or sub-assemblies. Callouts 1 and 2 indicate specific assembly instructions or notes.

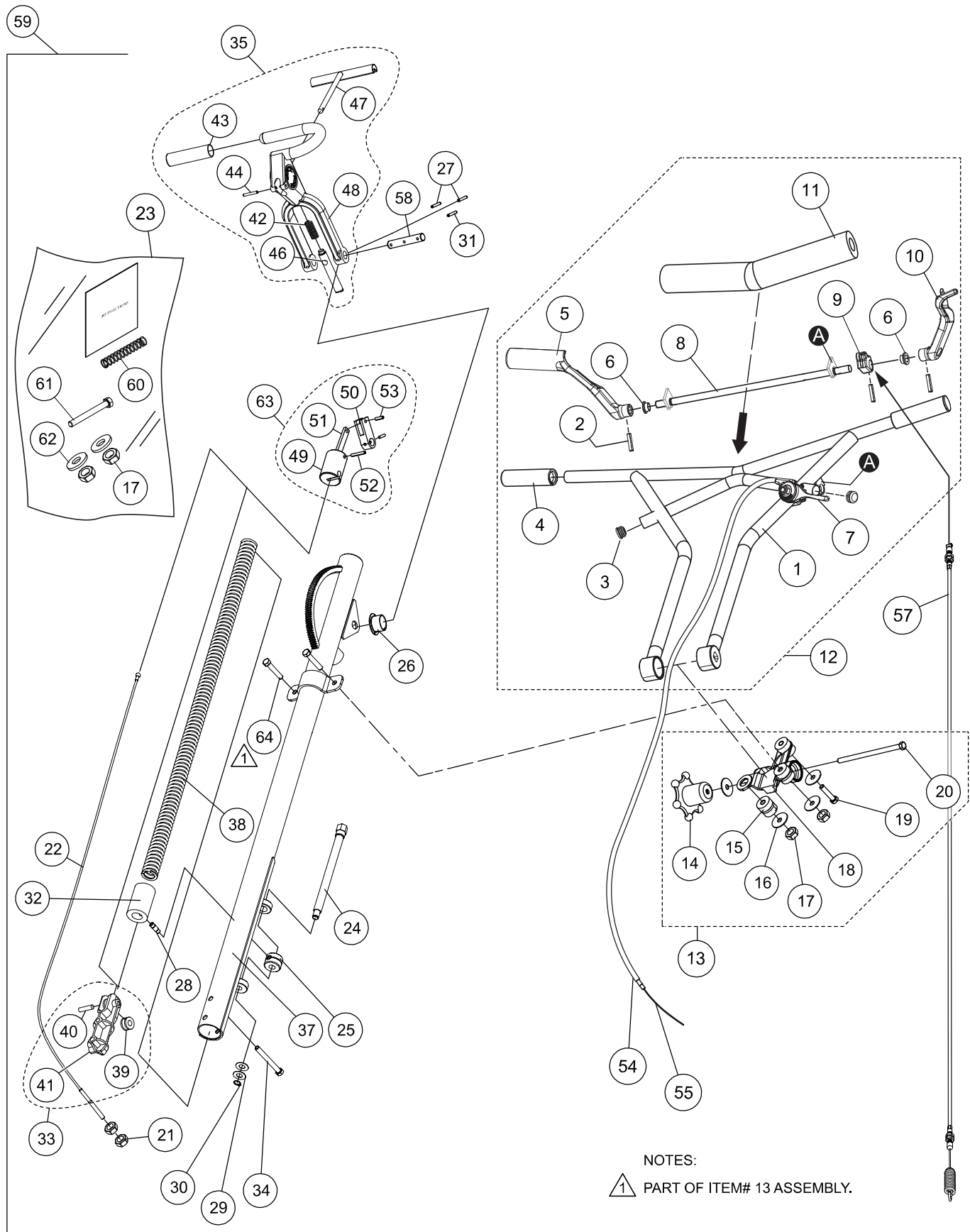
NOTES:

- 1 USE LOCTITE BLUE# 242 W/ ALL SCREWS.
- 2 PART OF ITEM# 47 ASSEMBLY.

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	

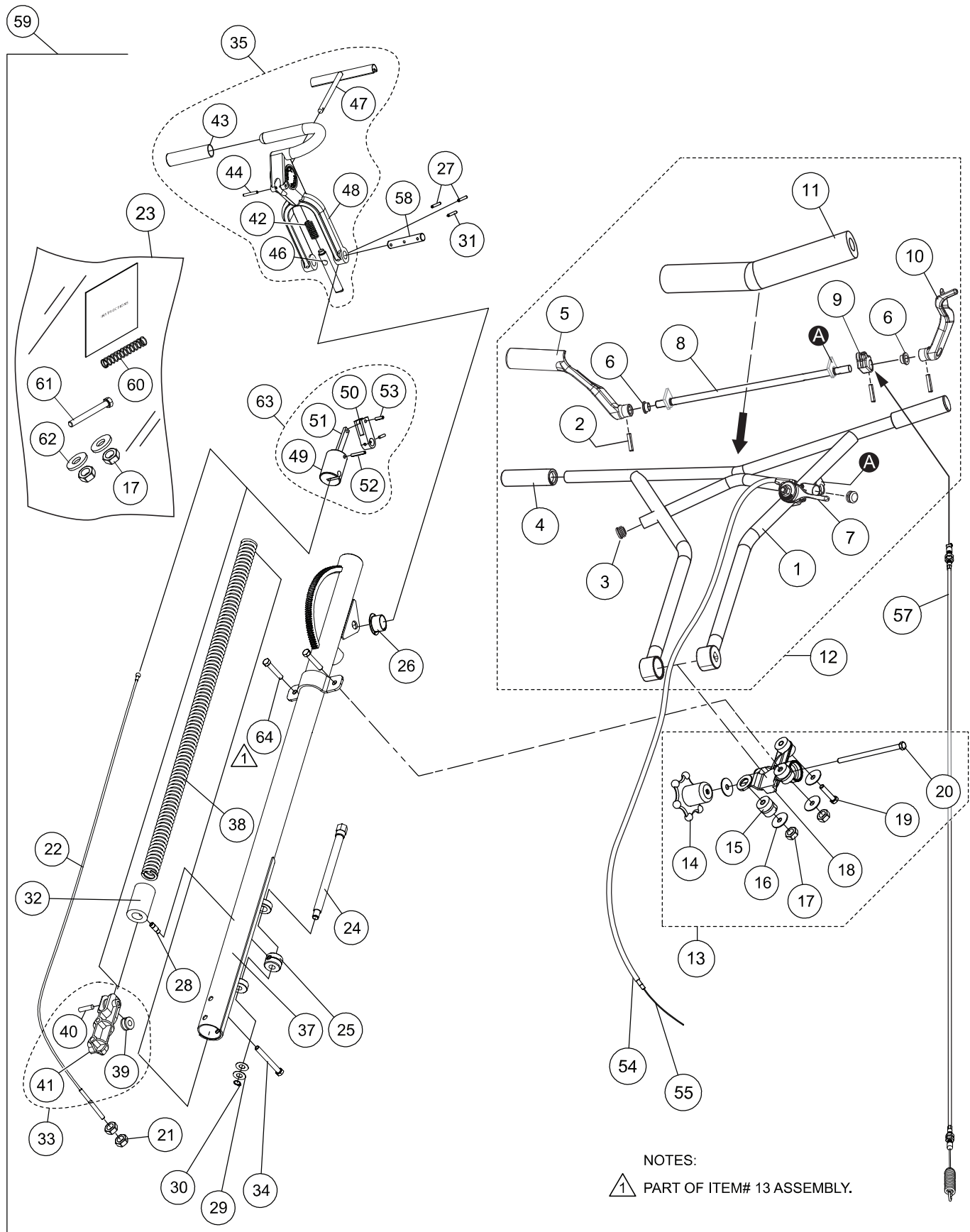
QUICK PITCH HANDLE ASSY.



QUICK PITCH 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	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	

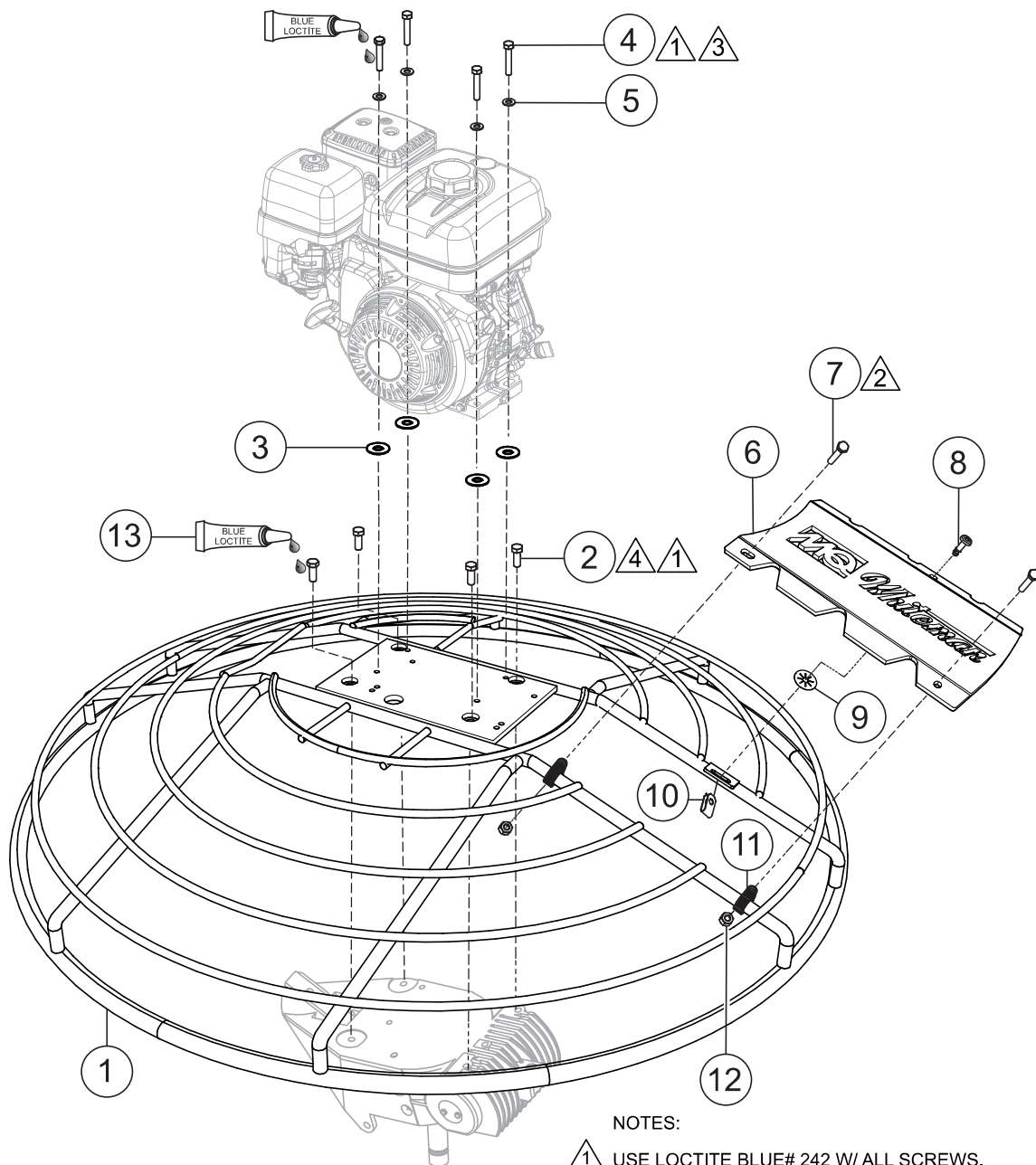
QUICK PITCH HANDLE ASSY.



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.



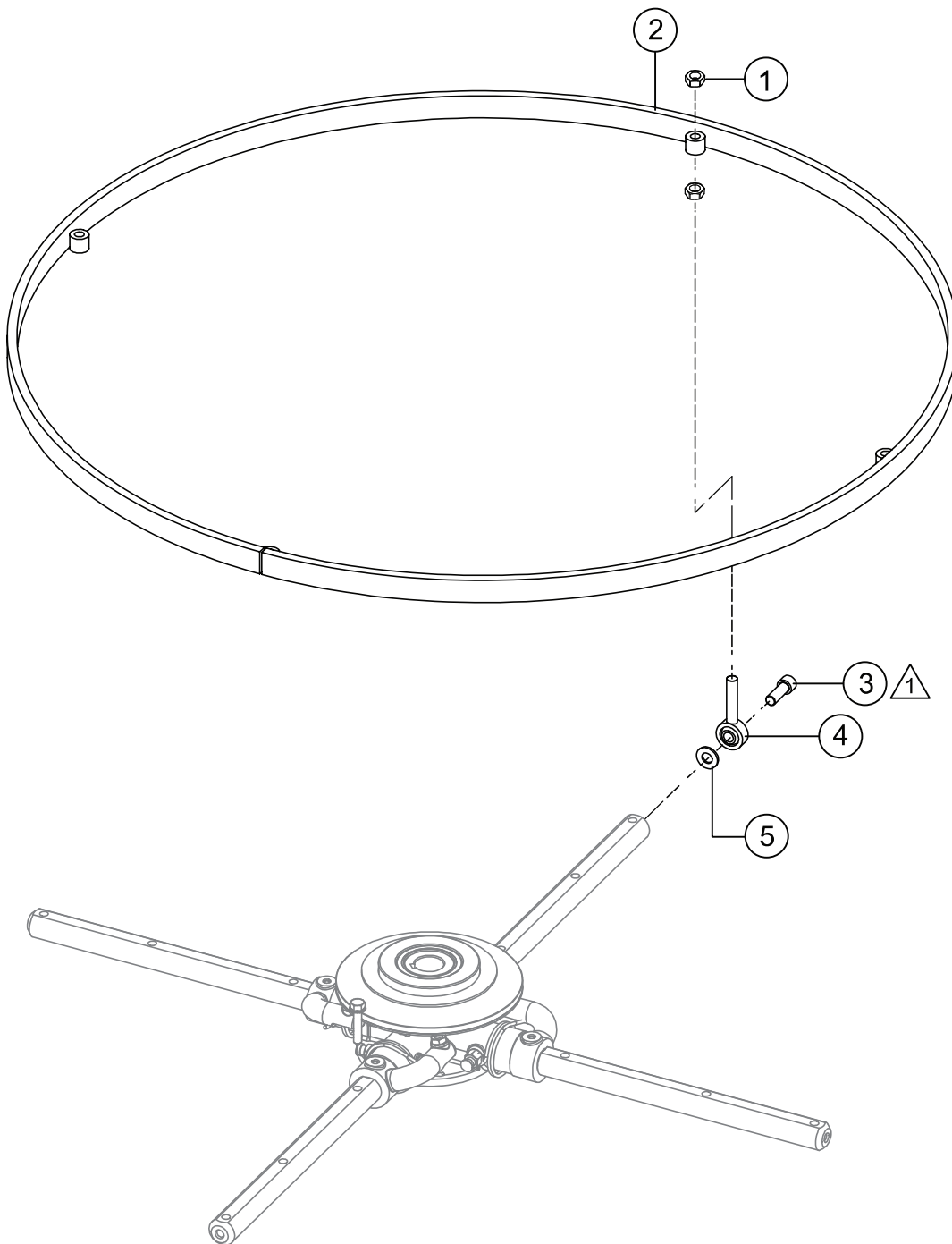
NOTES:

- ① USE LOCTITE BLUE# 242 W/ ALL SCREWS.
- ② TORQUE TO 8 FT.-LBS. (10.8 N-m)
- ③ TORQUE TO 14,5 FT.-LBS. (20 N-m)
- ④ 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	21973	GUARD RING	1	
2	0205	SCREW, HHC 3/8"-16 X 1"	4	
3	13351	WASHER, FLAT 3/8" EXT THICK HIGH STRGTH	4	
4	1391	SCREW, HHC 5/16"-24 X 1-1/2" ZINC	4	
5	933241	WASHER, FLAT SAE 5/16" GRD 9 YZ	4	
6	21979	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	

STABILIZER RING ASSY.



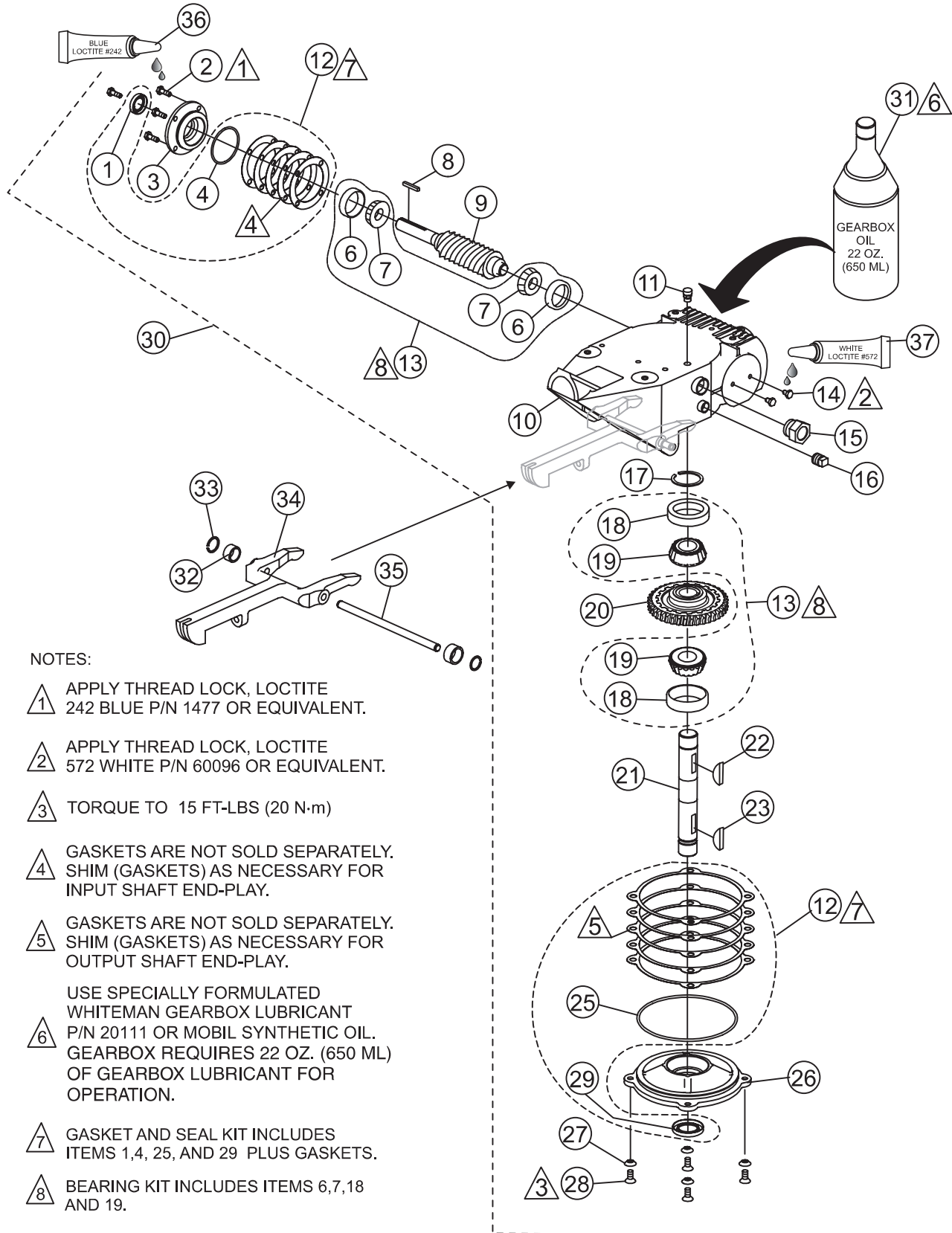
NOTES:

 TORQUE TO 17 FT.-LBS. (23 N·m)

STABILIZER RING ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	6014 C	NUT, HEX FINISH 5/16"-24	8	
2	1483	RING, STABILIZER	1	
3	1237	SCREW, SHC 5/16"-18 X 7/8", NYL PATCH, NP	4	
4	1723	ROD END, 5/16" DIA. X 5/16"-24 MALE END RH	4	
5	0300 B	WASHER, FLAT SAE 5/16"	4	

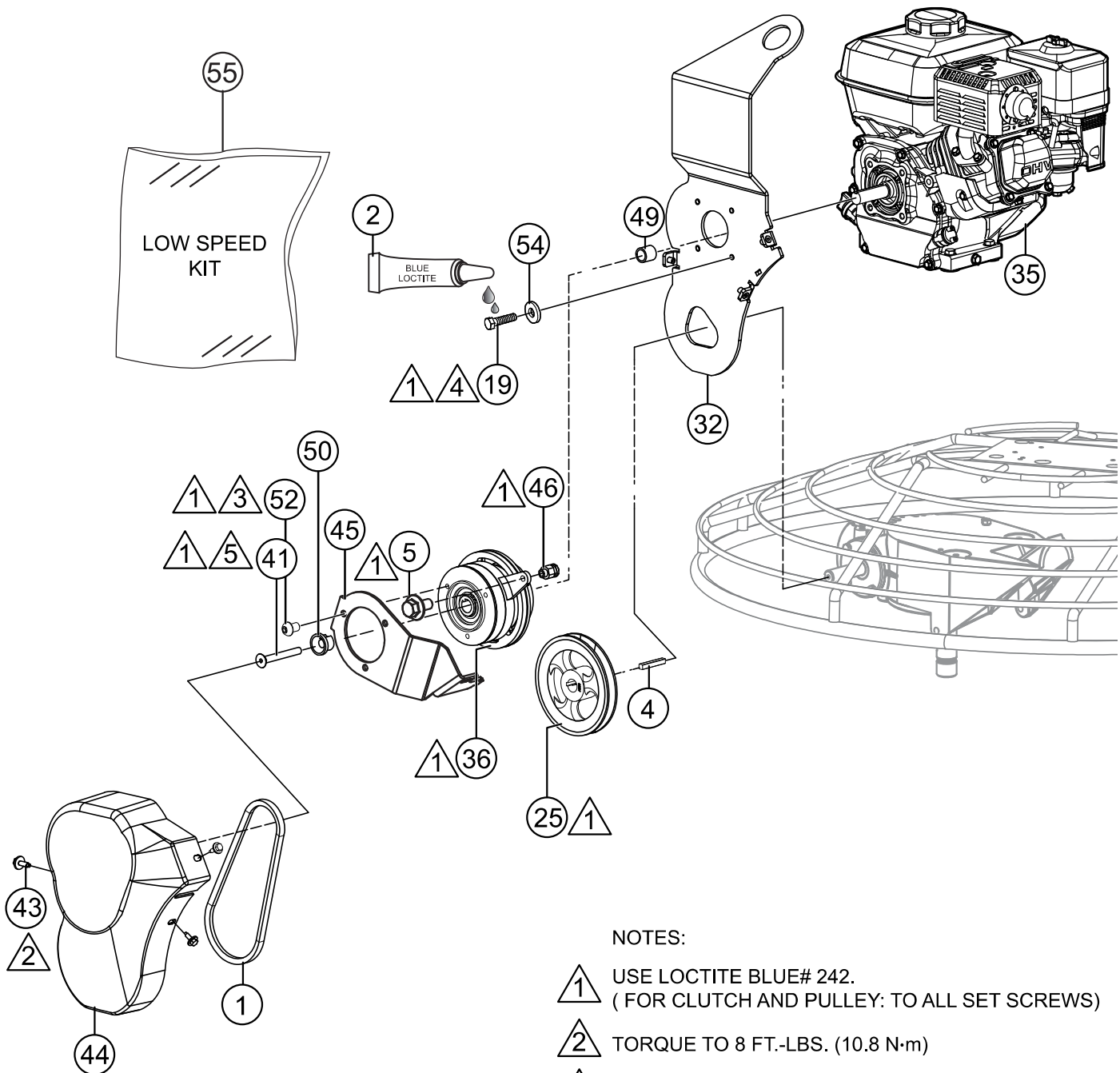
GEARBOX ASSY.



GEARBOX ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
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.

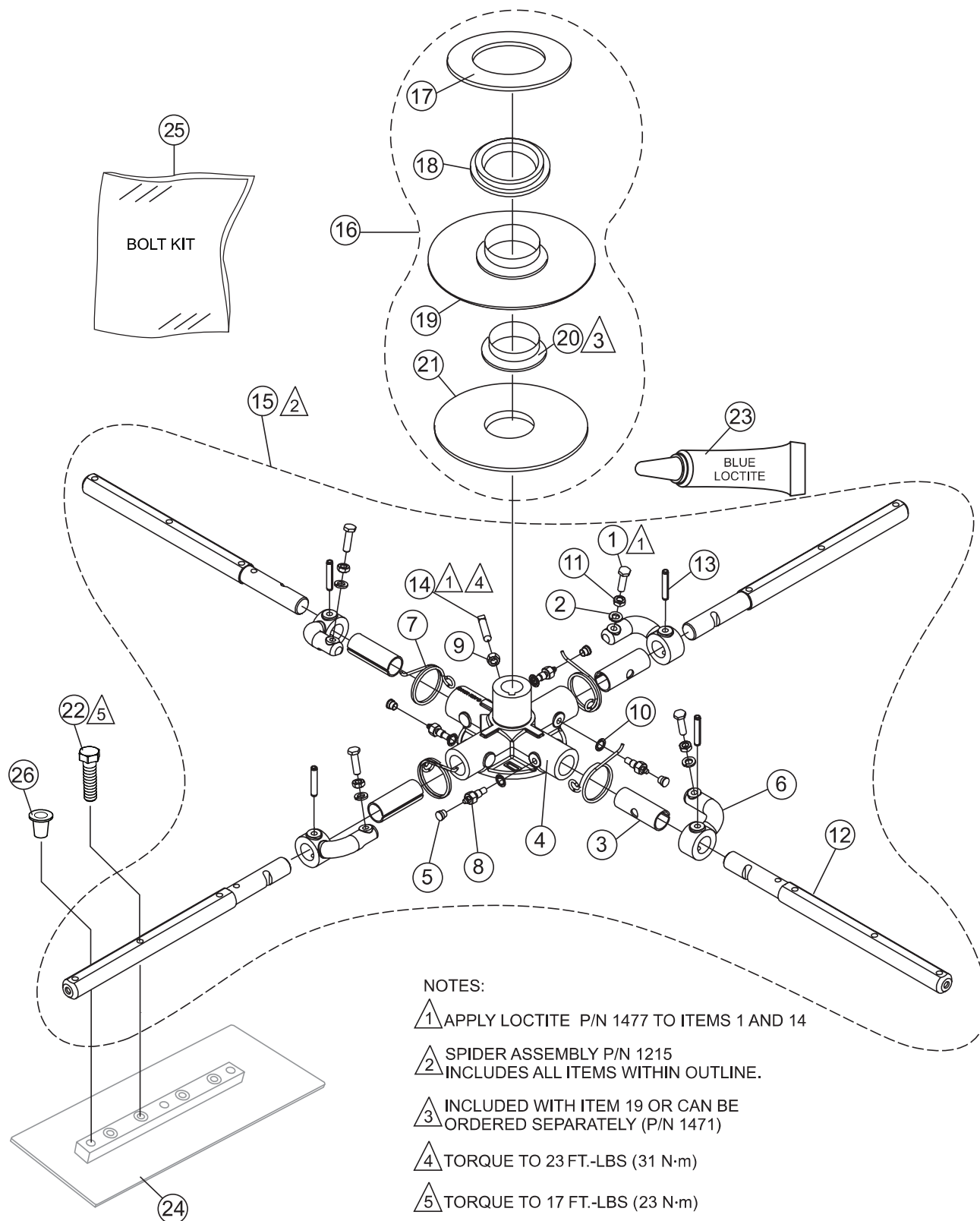


NOTES:

-  USE LOCTITE BLUE# 242.
(FOR CLUTCH AND PULLEY: TO ALL SET SCREWS)
-  TORQUE TO 8 FT.-LBS. (10.8 N·m)
-  TORQUE TO 13 FT.-LBS. (18 N·m)
-  TORQUE TO 14.5 FT.-LBS. (19.6 N·m)
-  TORQUE TO 26 FT.-LBS. (35 N·m)

ENGINE AND CLUTCH ASSY.

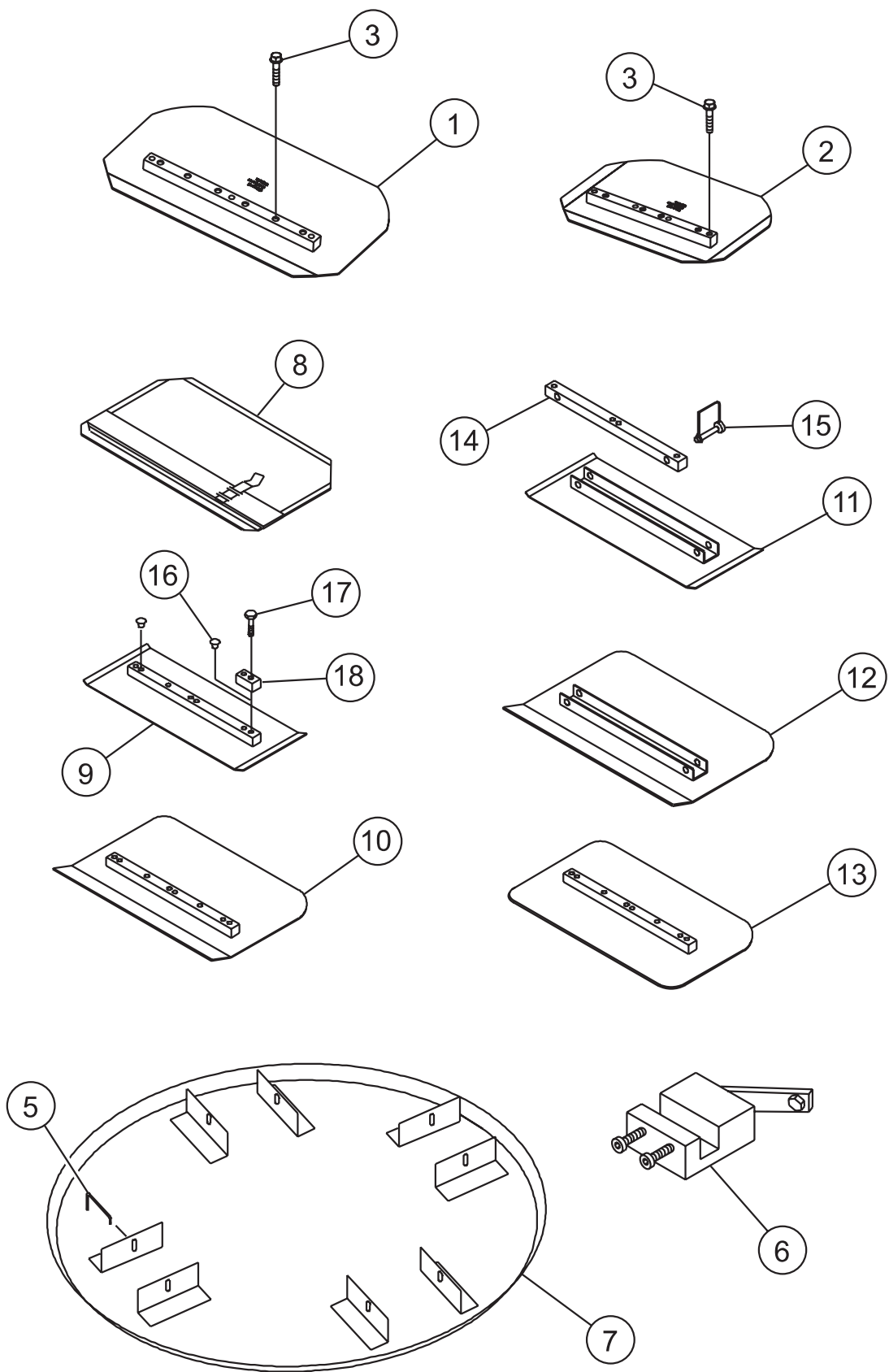
NO.	PART NO.	PART NAME	QTY.	REMARKS
1#	0152 3	BELT, A28, GATES HP-II.....	1	BH90C AND BS90C ONLY
1	1243	BELT, A27, GATES HP-II.....	1	BH11C ONLY
2	1477	BLUE LOCTITE, #242	AR	
4	0627	KEY, 3/16" X 1-1/4"	1	
5	22538-001	SCREW, HEX FLANGE, 1/4"-20 X .5,THR ROLL	1	
19	10229	SCSCREW, HHC 5/16"-24 X 1"	4	
25#	21140	PULLEY AK54 X 3/4"	1	
25	11049	PULLEY, AK49 X 3/4".....	1	BH11C ONLY
32	21984	LIFTING BALE ASSY.	1	
35	22623	ENGINE, HONDA GX270 (9 HP)	1	BH90C ONLY
35	22625	ENGINE, HONDA GX340 (11 HP)	1	BH11C ONLY
35	22996	ENGINE, SUBARU, EX270 (9 HP).....	1	BS90C ONLY
36	22891	CLUTCH, FRICTION DRIVE	1	
41	23965	SCREW, FHSC, 7/16"-20 X 1"	1	BH90C AND BS90C ONLY
41	30318	SCREW, FHSC 3/8"-24 X 1"	1	BH11C ONLY
43	30119	SCREW, 1/4"-20 X 7/8" IND HEX, DOG PT	3	
44	30344	BELT GUARD	1	
45	30200	BRACKET, FRICTION CLUTCH ANTI-ROTATION	1	
46	30202	ANCHOR, SPRING	1	
49	30236	SPACER, 1" SHAFT	1	
50	30240	END CAP, 1" SHAFT	1	
52	32448	SCREW, BHC, 5/16"-18 X 1/2"	3	
54	933241	WASHER, FLAT SAE 5/16" GRD 9 YZ	4	
55	LOWSPEEDKITJB	LOW SPEED KIT	1	INCLUDES ITEMS W/#



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%	2827-1	ARM, TROWEL, B EXTENDED, 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	23648	KIT, BOLT.....	1	INCLUDES ITEMS W/@
26@	1434	PLUG, BLADE	4	

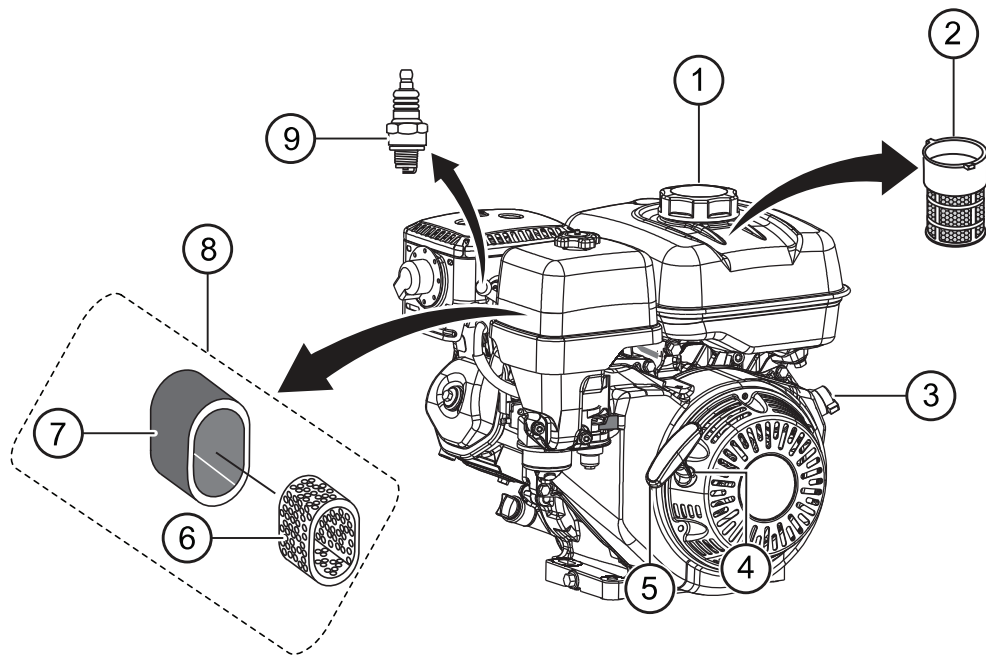
BLADES AND PAN ASSY.



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	

ENGINE SERVICE PARTS (HONDA)



ENGINE SERVICE PARTS (HONDA)

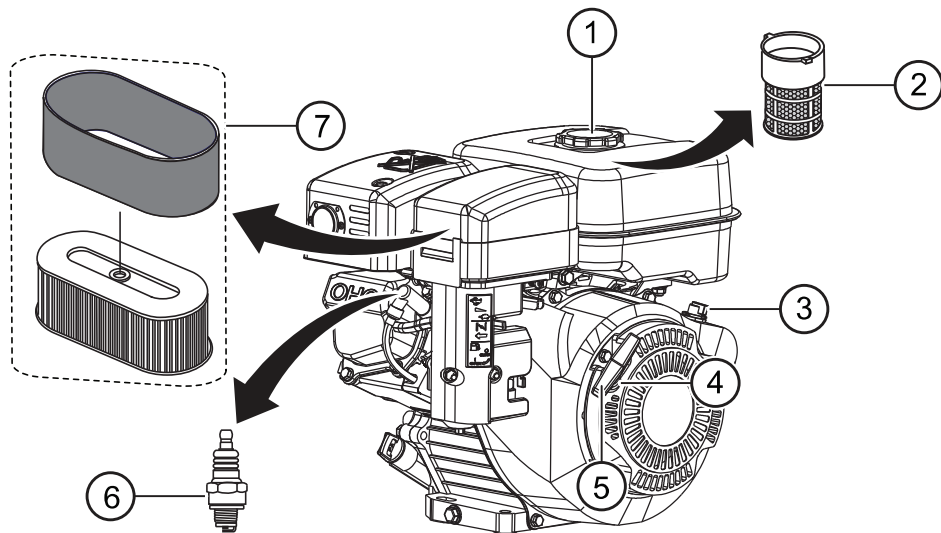
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	17620Z4H900	CAP, FUEL	1	REPLACES P/N 17620Z4H030
2	17672Z4H000	FILTER, FUEL	1	
3	35120Z5T003	SWITCH, ENGINE STOP	1	
4◇	28462ZE2W11	ROPE, RECOIL STARTER	1	
4◆	28462ZV7003	ROPE, RECOIL STARTER	1	
5	28461Z5T305	GRIP, RECOIL STARTER	1	
6#		FILTER, INNER AIR	1	NOT SOLD SEPARATELY
7◇#	17218ZE2505	FILTER, OUTER AIR	1	
7◆#	17218ZE3505	FILTER, OUTER AIR	1	
8	17210ZE2515	FILTER, DUAL AIR	1	INCLUDES ITEMS W/#
9◇	9807955876	SPARK, PLUG	1	
9◆	9807956846	SPARK PLUG	1	

NOTICE

◇ HONDA GX270UT2QA2

◆ HONDA GX340UT2QA2

ENGINE SERVICE PARTS (SUBARU)



ENGINE SERVICE PARTS (SUBARU)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	X430440161	CAP, FUEL	1	
2	2056600111	FILTER, FUEL.....	1.....	REPLACES P/N X641360010
3	KU31107101	SWITCH ASSY.	1	
4	2795011008	ROPE, RECOIL STARTER	1	
5	2265070118	GRIP, RECOIL STARTER	1	
6	0650140150	SPARK PLUG	1	
7	2793260718	FILTER, DUAL AIR	1.....	REPLACES P/N 2793260618