

OPERATION AND PARTS MANUAL



***WHITEMAN* SERIES**
HPLA/HPHA-SERIES 46"
MODELS:
HPLA46411H
HPHA46411H
WALK-BEHIND TROWEL
(Honda GX340K1QAP2 Gasoline Engine)

Revision #6 (07/06/10)

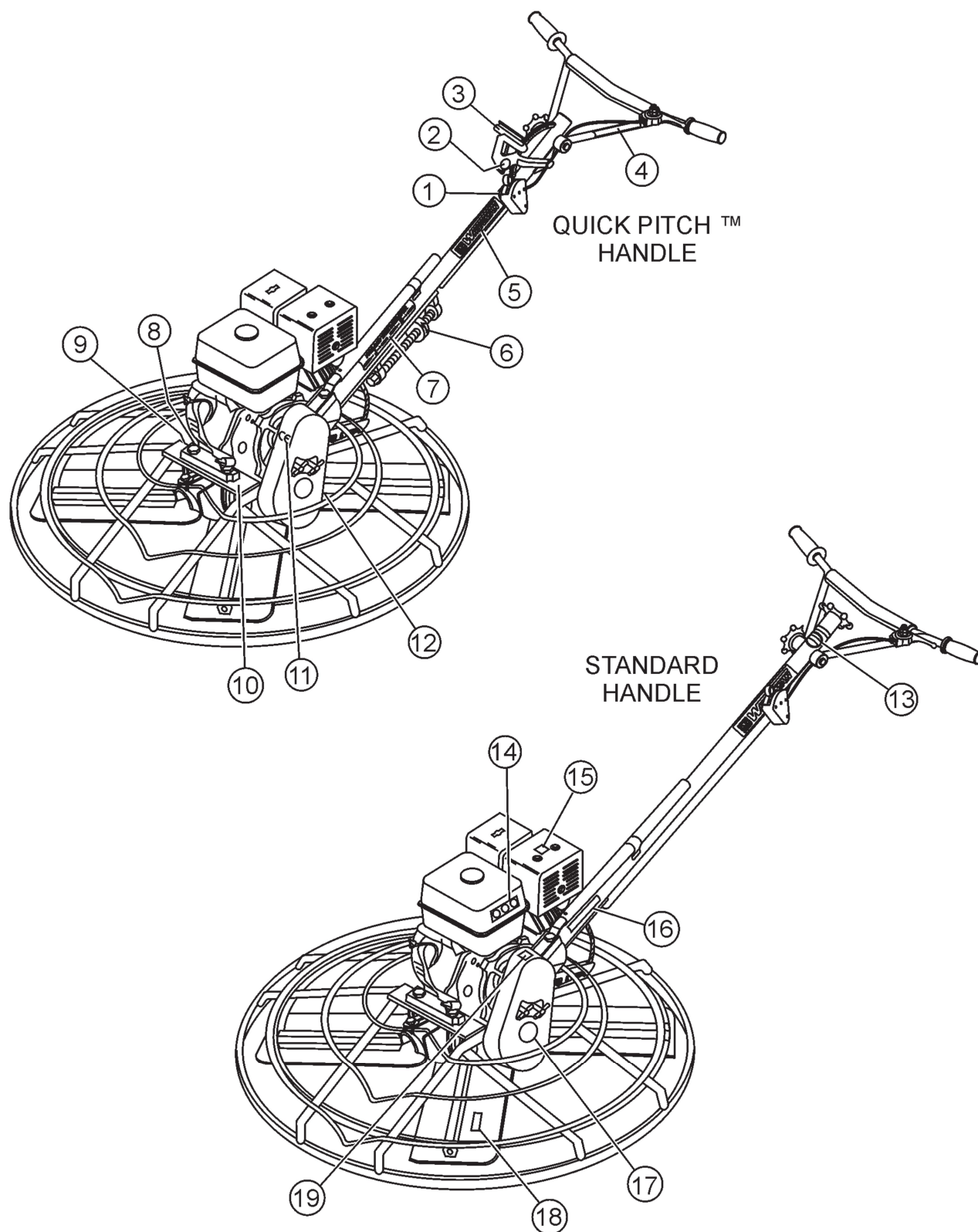
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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

HPLA/HPHA-SERIES 46" TROWEL — NAMEPLATE AND DECALS

NAMEPLATES AND DECALS



HPLA/HPHA-SERIES 46" TROWEL — NAMEPLATE AND DECALS

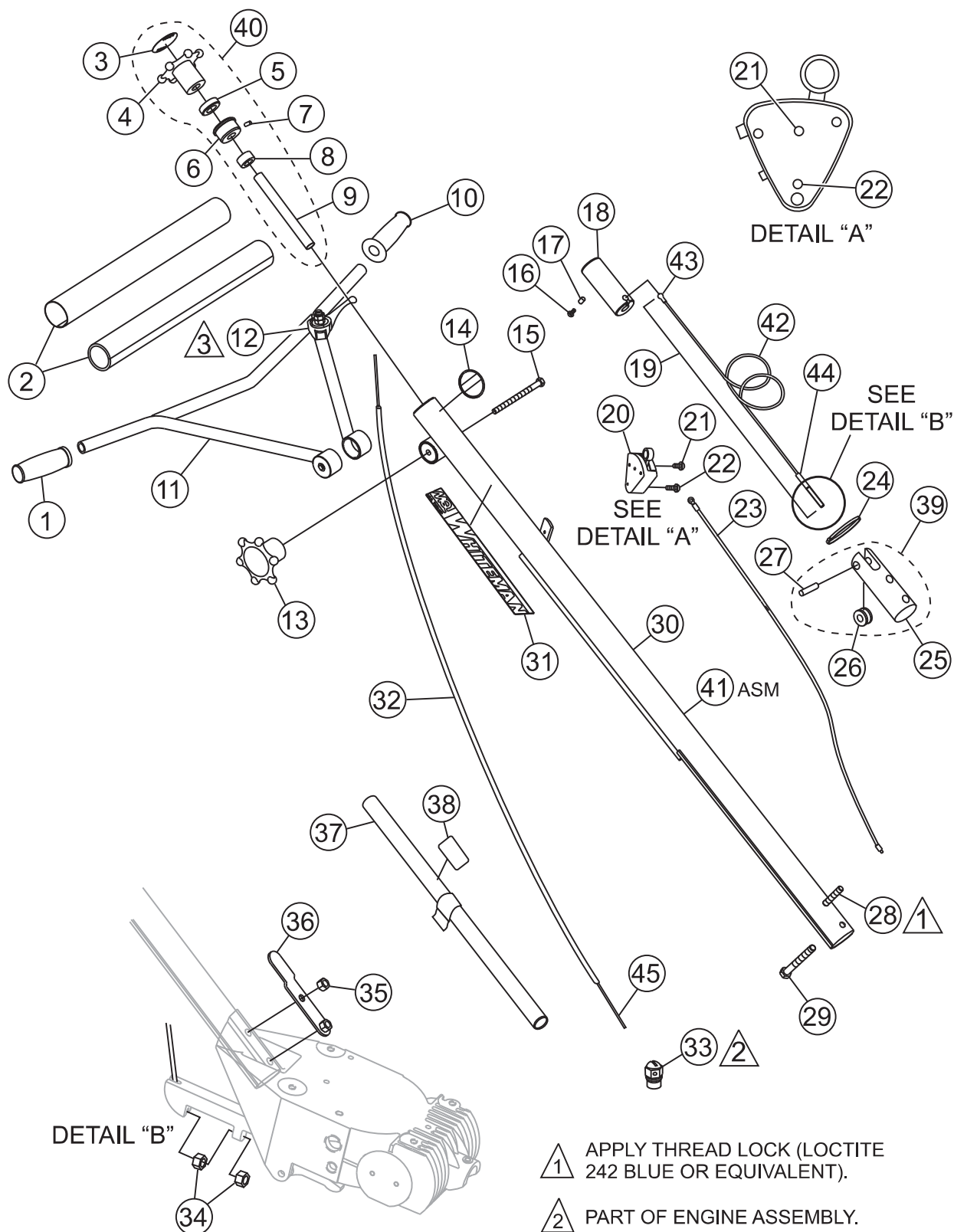
NAMEPLATE AND DECALS

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	1758	DECAL: QUICK-PITCH™ HANDLE	1	
2	12405	DECAL: QUICK-PITCH™ HANDLE INSERT	2	
3	20527	DECAL: QUICK-PITCH™ WARNING	1	
4	20526	DECAL: QUICK-PITCH™ LATCH WARNING	1	
5	2942	DECAL: MQ WHITEMAN 13"	1	
6	1736	DECAL: ARROWS	1	
7	1735	DECAL: PRE-LOAD INDICATOR	1	
8	11246	DECAL: OIL CHECK	1	 PART OF DECAL KIT P/N 12620
9		NAMEPLATE	1	 CONTACT MQ PARTS DEPT.
10	1940	DECAL: MQ WHITEMAN (SMALL)	1	
11	11092	DECAL: CE	1	
12	11246	DECAL: GEAR DRIVE	1	 PART OF DECAL KIT P/N 12620
13	1492	DECAL: STANDARD HANDLE (FINISHER)	1	
14	1147	DECAL: HELMET, FOOT AND GLOVE	1	 PART OF DECAL KIT P/N 12620
15	11246	DECAL: HOT	1	 PART OF DECAL KIT P/N 12620
16	1261	DECAL: DO NOT LIFT	1	
17	1848	DECAL: POWER TROWEL	1	
18	2938	DECAL: METRIC	1	
19	11246	DECAL: BELT DRIVE	1	PART OF DECAL KIT P/N 12620

SEE DECAL ILLUSTRATIONS ON PAGE 12

HPLA/HPHA-SERIES 46" TROWEL — STANDARD HANDLE ASSY.

STANDARD HANDLE ASSY.



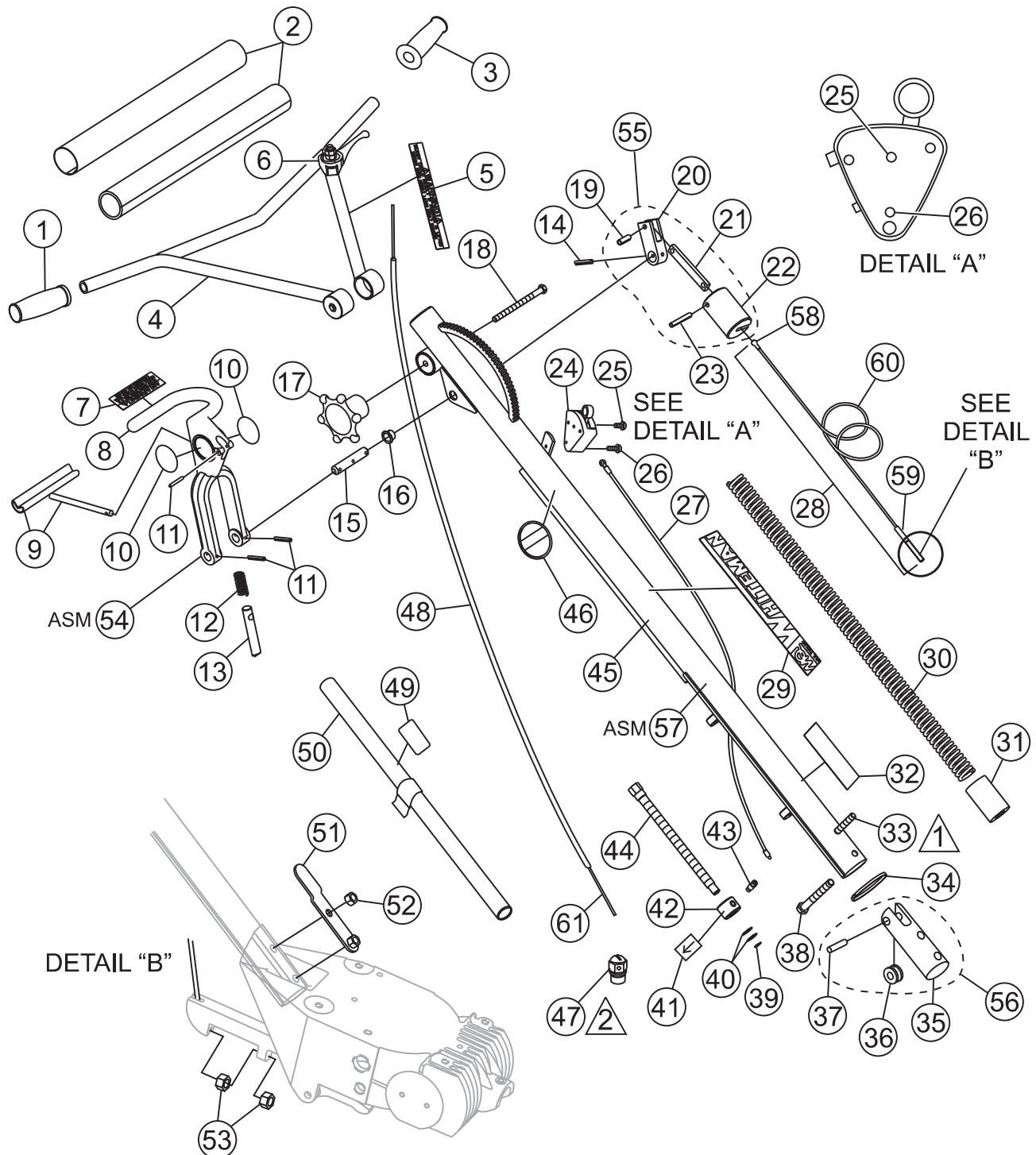
HPLA/HPHA-SERIES 46" TROWEL — STANDARD HANDLE ASSY.

STANDARD HANDLE ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	20463	GRIP, HANDLE RIGHT	1	
2	20774	COVER, PAD HANDLE	1	
3	20818	DECAL, STD PITCH	1	OBSOLETE ON LATER MODELS
4*	20817	WHEEL, HAND HANDLE	1	
5*	0281	BEARING, THRUST, NICE 607	1	
6*	20282	BEARING, TROWEL CONTROL	1	
7*	0122C	SCREW, SHS 3/8-16 X 1/2	1	
8*	3615	COLLAR, SET 3/4 ID	1	
9*	1478	SHAFT, TROWEL CONTROL	1	
10	20478	GRIP, HANDLE LEFT	1	
11	12556	HANDLE, ADJUSTABLE	1	
12	21171	THROTTLE	1	
13	20439	WHEEL ASSY, HAND	1	
14	1492	DECAL, CUSTOM 2 1/2 CHROME	1	
15	20438	SCREW, HHC 3/8-16 X 5.00	1	
16	0786	SCREW, BHC 1/4- 20 X 3/8 NYL PATCH, NP	1	
17	0786A	SPACER, .360 X 17/64 X 1/8L	1	
18	20287	SLIDE BLOCK TROWEL CONTROL	1	
19	20285	CABLE ASSY., LENGTH 48.29" STD FINISHER	1	
20	20856	SWITCH ASSY, SAFETY STOP	1	INCLUDES ITEM W/■
21■	1602	SCREW, RHM 10-24 X 3/8	1	
22	20988	SCREW, FHSC PHILLIPS 8-32 X 1 1/4	1	
23	20514	WIRE ASSY, SAFETY STOP SWITCH	1	
24	1662	TIE, CABLE TY-RAP, BLACK	1	
25#	20275	BLOCK, SUPPORT	1	
26#	1118	PULLEY, SUPPORT BLOCK	1	
27#	20279	PIN, SUPPORT BLOCK 3/8 X 1.59	1	
28	21017	SCREW, HHC 3/8-16 X 3 1/2 FULL THREAD	1	
29	1493	SCREW, HHC 3/8-16 X 3 1/4	1	
30	12567	HANDLE, STD	1	
31	2942	DECAL, MQ WHITEMAN, 13"	1	
32	21173	HOUSING, CABLE 74"	1	
33	20845	SWIVEL, THROTTLE CABLE	1	
34	1116	NUT, BRASS JAM 5/16-18	2	
35	10133	NUT, NYLOC 3/8-16	1	
36	20392	BRACKET, LIFT TUBE	1	
37		HANDLE, LIFT ASSY.	1	NO LONGER AVAILABLE
38		DECAL, CAUTION, LIFT HANDLE	1	NO LONGER AVAILABLE
39	20280	BLOCK, CABLE ASSY.	1	INCLUDES ITEMS W/#
40	20819	HAND WHEEL ASSY., PITCH CONTROL	1	INCLUDES ITEMS W/*
41		HANDLE ASSY., STD FINISHERS	1	CONTACT SALES DEPT.
42	20301	CABLE, CNTL 5/32 GALV AIRCRAFT 46.03"	1	
43	20421	CLEVIS, BALL END CONTROL CABLE	1	
44	A8638	END-BOLT, CNTL CABLE	1	
45	21172	CABLE, THROTTLE	1	

HPLA/HPHA-SERIES 46" TROWEL — QUICK-PITCH™ HANDLE ASSY.

QUICK-PITCH™ T-HANDLE ASSY.



1 APPLY THREAD LOCK (LOCTITE 242 BLUE OR EQUIVALENT).

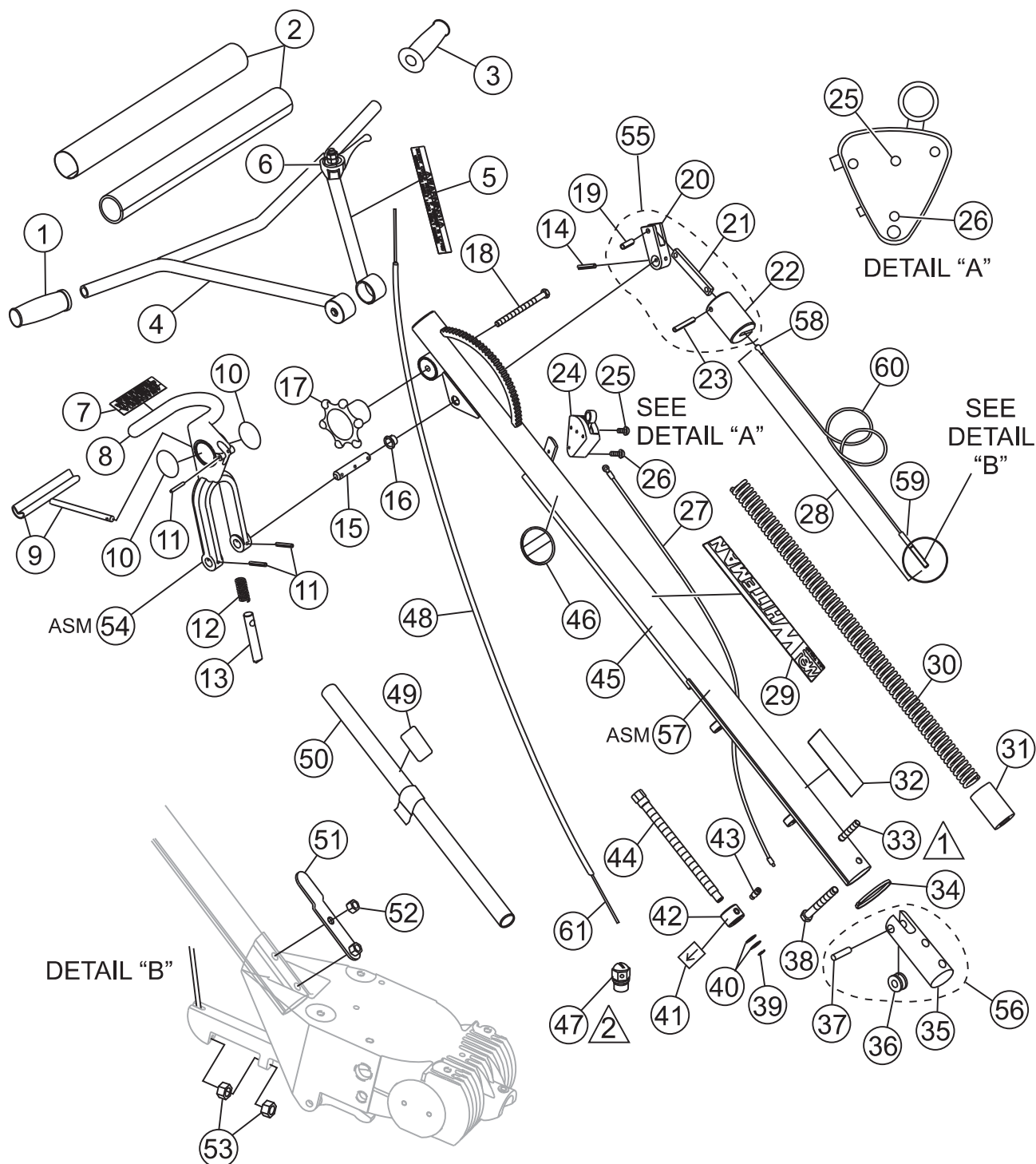
2 PART OF ENGINE ASSEMBLY.

HPLA/HPHA-SERIES 46" TROWEL — 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	20463	GRIP, HANDLE RIGHT	1	
2	20774	COVER, PAD HANDLE	1	
3	20478	GRIP, HANDLE LEFT	1	
4	12556	HANDLE, ADJUSTABLE	1	
5	20526	DECAL, LATCH WARNING	1	
6	21171	THROTTLE	1	
7*	20527	DECAL, Q.P. WARNING	1	
8*	20389	HANDLE, QUICK-PITCH™	1	
9*	1746	TRIGGER, QP CHROMED	1	
10*	12405	DECAL, WHITEMAN QUICK-PITCH™	2	
11	1729	PIN, ROLL 3/16 X 1 1/4	3	
12*	1706	SPRING, ENCLOSED QP CLAMP	1	
13*	20437	PIN, QP LATCH	1	
14	4568	PIN, ROLL 3/16 X 1	1	
15	1711	SHAFT, CONTROL QP	1	
16	1719	BUSHING, PIVOT PLATE	1	
17	20439	WHEEL ASSY., HAND	1	
18	20438	SCREW, HHC 3/8-16 X 5.00	1	
19+	1731	PIN, ROLL 1/4 X 3/4	1	
20+	20443	ARM, SLIDE CONTROL	1	
21+	1709	CONNECTOR, QP CONTROL ARM	1	
22+	20269	LINKAGE, QP CONTROL	1	
23+	20276	PIN, ROLL 1/4 X 1 3/4	1	
24	20856	SWITCH ASSY., SAFETY STOP	1	INCLUDES ITEM W/■
25■	1602	SCREW, RHM 10-24 X 3/8	1	
26	20988	SCREW, FHSC PHILLIPS 8-32 X 1 1/4	1	
27	20514	WIRE ASSY., SAFETY STOP SWITCH	1	
28	20297	CABLE ASSY., QP CONTROL, 45"	1	
29	2942	DECAL, MQ WHITEMAN, 13"	1	
30	1715	SPRING, COUNTER BALANCE	1	
31	20270	BLOCK, QP ADJUSTMENT	1	
32	1735	DECAL, PRELOAD TRIM INDICATOR	1	
33	21017	SCREW, HHC 3/8-16 X 3 1/2 FULL THREAD	1	
34	1662	TIE, CABLE, TY-RAP BLACK	1	
35#	20275	BLOCK, SUPPORT	1	
36#	1118	PULLEY, SUPPORT BLOCK	1	
37#	20279	PIN, SUPPORT BLOCK 3/8 X 1.59	1	
38	1493	SCREW, HHC 3/8-16 X 3 1/4	1	
39	1737	SNAP RING, TRUARC #5100-50	1	
40	1733	WASHER, 1/2 X 1/32, HARDENED	2	

HPLA/HPHA-SERIES 46" TROWEL — QUICK PITCH™ HANDLE ASSY.



1 APPLY THREAD LOCK (LOCTITE 242 BLUE OR EQUIVALENT).

2 PART OF ENGINE ASSEMBLY.

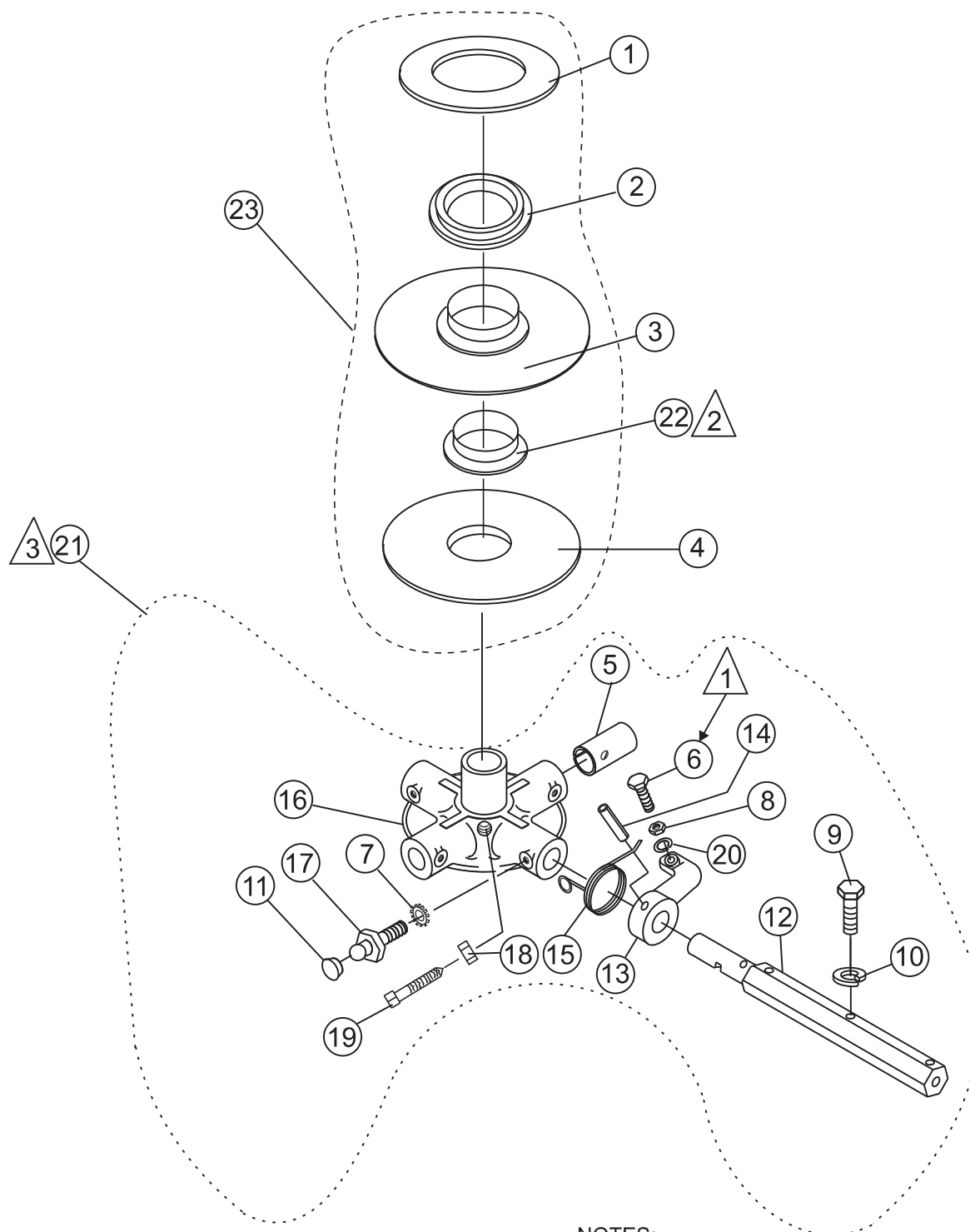
HPLA/HPHA-SERIES 46" TROWEL — QUICK PITCH™ HANDLE ASSY.

QUICK PITCH HANDLE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
41	1736	DECAL, ARROW	1	
42	1718	NUT, QP TRIM CTRL ADJ	1	
43	1732	BOLT, STRIPPER 3/8 X 1/2	1	
44	1717	SCREW, QP TRIM ADJUSTMENT	1	
45	12642	TUBE, MAIN HANDLE	1	
46	1758	DECAL, PATENT QP	1	
47	20845	SWIVEL, ENGINE THROTTLE CABLE	1	
48	21173	HOUSING, THROTTLE CABLE 74"	1	
49		DECAL, CAUTION, LIFT HANDLE	1	NO LONGER AVAILABLE
50		HANDLE, LIFT ASSY.	1	NO LONGER AVAILABLE
51	20392	BRACKET, LIFT TUBE	1	
52	10133	NUT, NYLOC 3/8-16	1	
53	1116	NUT, BRASS JAM 5/16-18	2	
54	20390	TRIGGER, QP ASSY.	1	INCLUDES ITEMS W/*
55	20293	LINKAGE, QP CONTROL ASSY.	1	INCLUDES ITEMS W/+
56	20280	BLOCK, CABLE ASSY.	1	INCLUDES ITEMS W/#
57		HANDLE ASSY., MAIN	1	CONTACT SALES DEPT.
58	20421	CLEVIS, BALL END CONTROL CABLE	1	
59	A8638	END-BOLT, CNTRL CABLE	1	
60	20271	CABLE, CNTL 5/32 GALV AIRCRAFT 43.19"	1	
61	21172	CABLE, THROTTLE	1	

HPLA/HPHA-SERIES 46" TROWEL — 4-BLADE SPIDER ASSY.

4-BLADE SPIDER ASSY.



NOTES:

1 APPLY LOCTITE P/N 1477

2 INCLUDED WITH ITEM 3 OR CAN BE ORDERED SEPARATELY(P/N 1471).

3 SPIDER ASSEMBLY P/N 1490 INCLUDES ALL ITEMS WITHIN OUTLINE.

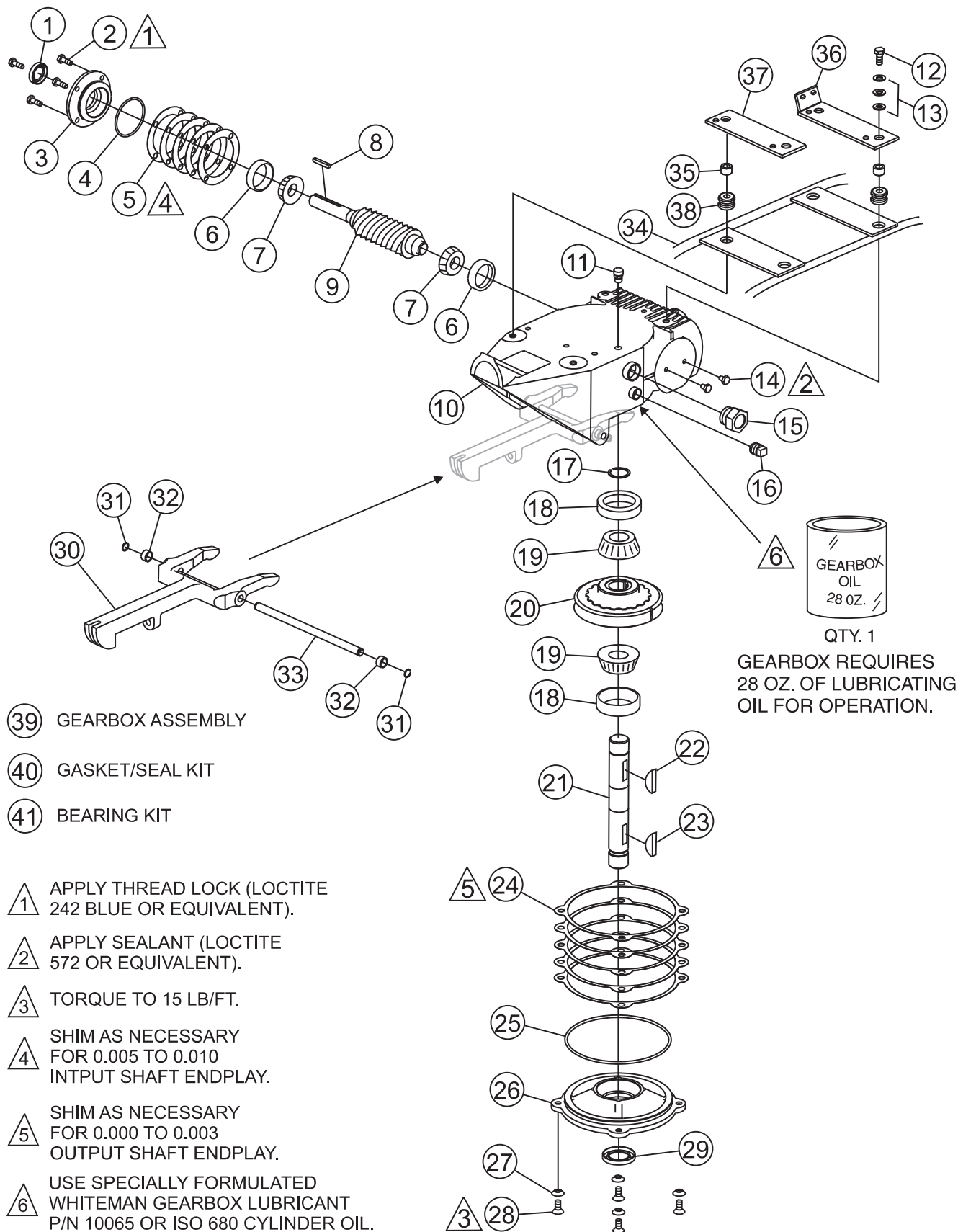
HPLA/HPHA-SERIES 46" TROWEL — 4-BLADE SPIDER ASSY.

4-BLADE SPIDER ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1★	12208	WEAR RING	1	
2★	12778	FLANGE BEARING	1	
3★	10793	THRUST COLLAR	1	INCLUDES ITEMS W/#
4★	1154A	WEAR PLATE	1	
5%	1157A	BEARING INSERT	4	
6%	0164B	RADIUS HEAD 3/8- 16 x 1-1/4"	4	FULL THREAD
7%	1875	INT. SHKP. WASHER 3/8"	4	
8%	1876	JAM NUT 3/8- 16	4	CLASS 2B
9%	0105	HHCS 5/16- 18 x 1-1/2"	8	
10%	0161C	LOCK WASHER 5/16"	8	
11%	1162A	LUBRA-CAP	4	
12%	2827	TROWEL ARM EXTENDED, 16-1/2"	4	
13%	1163	TROWEL ARM LEVER	4	
14%	4164	ROLL PIN 5/16 x 1-3/4"	4	
15%	1316	SPRING (RIGHT HAND)	4	
16%	1161	SPIDER PLATE ONLY	1	
17%	1322	RETAINING SCREW ASSY.	4	
18%	1456	HEX NUT 3/8-16	1	
19%	1167A	SHSS 3/8-16 x 1-1/2" CONE POINT	1	
20%	0166A	LOCK WASHER 3/8"	4	
21	1490	SPIDER PLATE ASSY.	1	INCLUDES ITEMS W/%
22★#	1471	THRUST COLLAR BUSHING	1	
23	10968	THRUST BEARING KIT	1	INCLUDES ITEMS W/★

HPLA/HPHA-SERIES 46" TROWEL — GEARBOX & ENGINE MOUNTS ASSY.

GEARBOX & ENGINE MOUNTS ASSY.



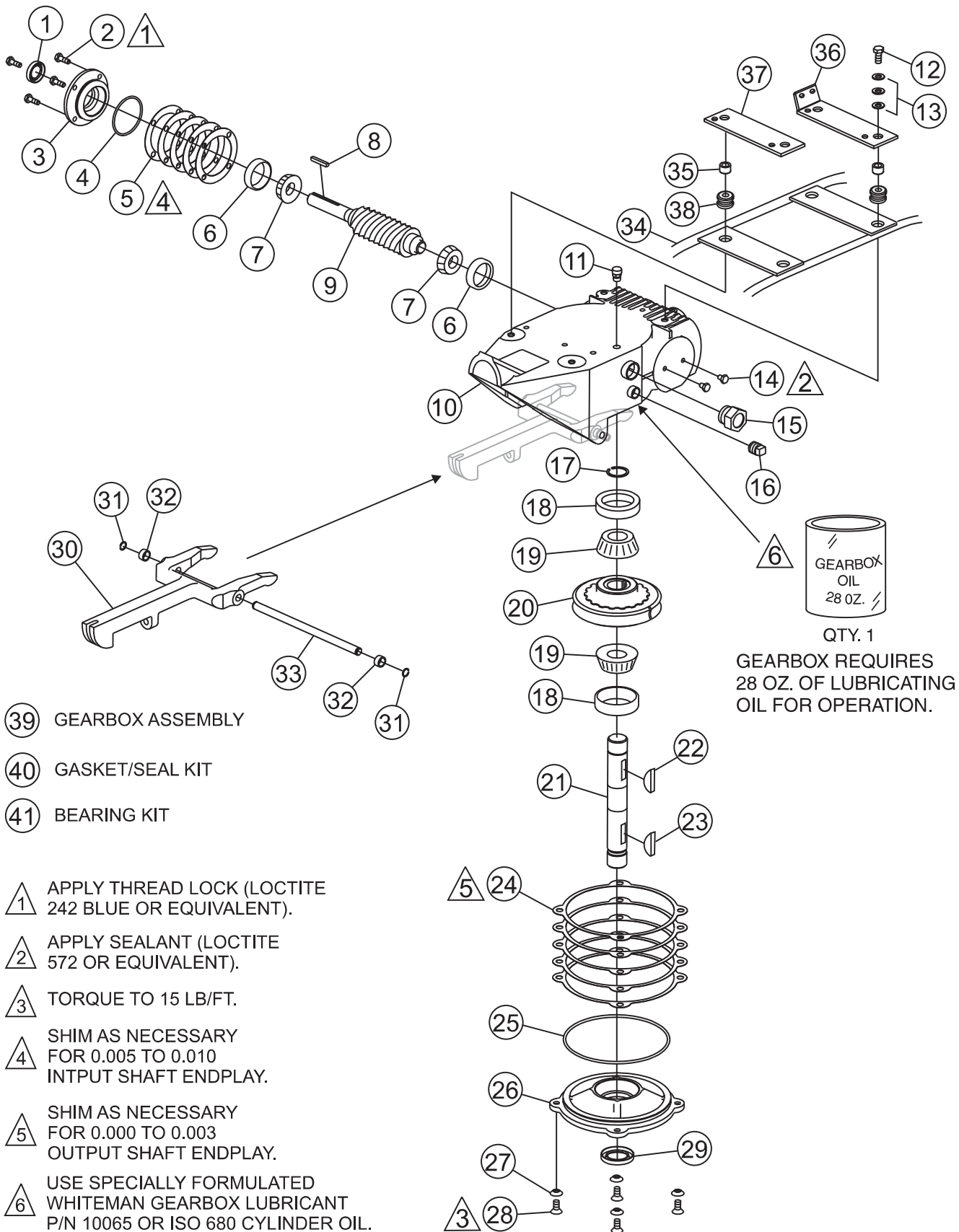
HPLA/HPHA-SERIES 46" TROWEL — GEARBOX & ENGINE MOUNTS ASSY.

GEARBOX & ENGINE MOUNTS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1%*	0753	SEAL, OIL NATIONAL #470954	1	
2%	0131A	SCREW, HHC 1/4-20 X 3/4	4	
3%	12876	FLANGE, INPUT SHAFT	1	
4%*	20395	RING, O -139 BUNA N	1	
5%*	20397	SHIM, INPUT 0.002 THICK	1	
	20398	SHIM, INPUT 0.003 THICK	1	
	20399	SHIM, INPUT 0.005 THICK	1	
	20400	SHIM, INPUT 0.010 THICK	1	
	20401	SHIM, INPUT 0.020 THICK	1	
6%#	20466	BEARING, CUP, TIMKEN #LM11910	2	
7%#	20465	BEARING, CONE, TIMKEN #LM11949	2	
8%	0627	KEY, SQUARE 3/16 X 1 1/4	1	
9%	1851	GEAR, WORM & SHAFT ASSY.	1	
10%	12874	CASE, GEAR	1	
11%	1132	VENT, AIR	1	
12	0655	SCREW, HHC 5/16-18 X 3/4	1	
13	0300B	WASHER, FLAT 5/16 SAE	3	
14%	20476	SCREW, HHC 1/4-28 X 3/8	2	
15%	21033	SIGHT GLASS, 3/4 M PIPE STEEL	1	
16%	0121A	FITTING, PLUG 3/8 MP SQ HEAD	1	
17%	1138	RING, SNAP, TRUARC 5100-112	1	
18%#	20475	BEARING, CUP TIMKEN #M86610	2	
19%#	20474	BEARING, CONE TIMKEN #M86647	2	
20%	1140	GEAR, WORM, BRONZE	1	
21%	20470	SHAFT, OUTPUT	1	
22%	1139	KEY, WOODRUFF #21 HARDENED	1	
23	1238	KEY, WOODRUFF #25	1	
24%*	20402	SHIM, OUTPUT 0.002 THICK	1	
	20403	SHIM, OUTPUT 0.003 THICK	1	
	20404	SHIM, OUTPUT 0.005 THICK	1	
	20405	SHIM, OUTPUT 0.010 THICK	1	
	20406	SHIM, OUTPUT 0.020 THICK	1	
25%*	20396	RING, O -257 BUNA N	1	
26%	12875	COVER, GEARBOX	1	
27%	10235	WASHER, C/S EXT. SHKP	4	
28%	1146	SCREW, FHSC 5/16-18 X 1, NYLOC NP	4	
29%*	0254	SEAL, OIL, NATIONAL #470712	1	

HPLA/HPHA-SERIES 46" TROWEL — GEARBOX & ENGINE MOUNTS ASSY.

GEARBOX & ENGINE MOUNTS ASSY.



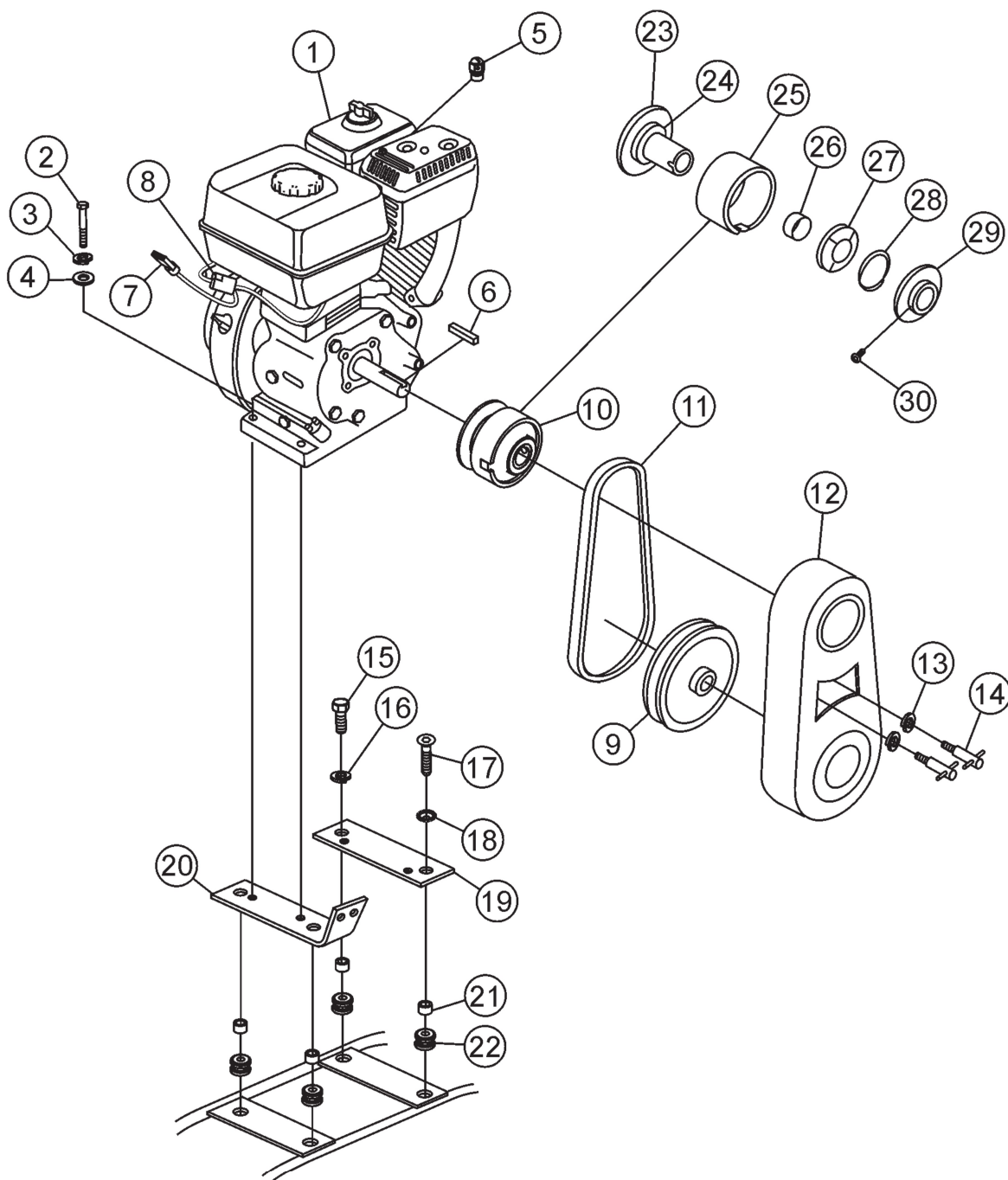
HPLA/HPHA-SERIES 46" TROWEL — GEARBOX & ENGINE MOUNTS ASSY.

GEARBOX & ENGINE MOUNTS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
30	1150	ARM, YOKE	1	
31	20802	RING, SNAP, TRUARC 5100-37 OR EQUIV.	2	
32	20803	SPACER, .50 OD X .40 ID X 0.25L	2	
33	20801	PIN, YOKE	1	
34	20797	STATIONARY GUARD RING	1	
35	1245	BUSHING, GUARD RING	4	
36	10700	FRONT ENGINE MOUNT	1	
37	1948	REAR ENGINE MOUNT	1	
38	1247	GROMMET 1/4 X .875 ID X 1-5/8 OD	4	
39	20407	GEARBOX ASSY.	1	INCLUDES ITEMS W/%
40	21046	GASKET/SEAL KIT	1	INCLUDES ITEMS W/★
41	21047	BEARING KIT	1	INCLUDES ITEMS W/#

HPLA/HPHA-SERIES 46" TROWEL — ENGINE ASSY.

ENGINE ASSY.



(31) LIFT STRAP-
CONTACT UNIT SALES DEPT./ACC. ITEM

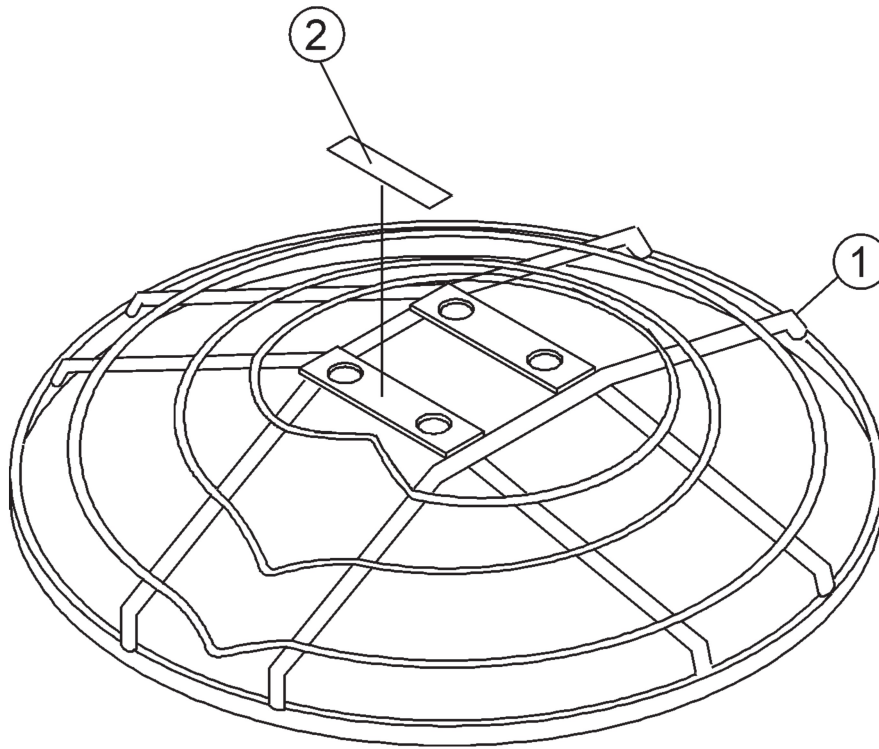
HPLA/HPHA-SERIES 46" TROWEL — ENGINE ASSY.

ENGINE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	1388	ENGINE 11HP HONDA GX340K1QAP2	1	
2	1391	HHCS 5/16-24 x 1-1/2"	4	
3	0161C	LOCK WASHER 5/16"	4	
4	0300B	FLAT WASHER 5/16"	4	
5	20845	SWIVEL, THROTTLE CABLE	1	
6	0310	SQUARE KEY 1/4X1/4X1.1/2"	1	
7	1488	WIRE, SAFETY SWITCH	1	
8	1475	CONNECTOR, SPLICE TAP	1	
9	1127	PULLEY, AK-66 X 3/4	1	HPLA4648H
9	0740	PULLEY, AK-51 X 3/4	1	HPHA4648H
10	0250	AUTOMATIC CLUTCH ASSY.	1	INCLUDES ITEMS W/*
11	0261	BELT, A31 GATES HP11 ONLY	1	HPLA4648H
11	0152 3	BELT, A28 GATES HP11 ONLY	1	HPHA4648H
12	1335	BELT GUARD	1	
13	0181B	LOCK WASHER 1/4"	2	
14	2577	T-BOLT 1/4-20	2	
15	1284	SCREW, HHC 3/8 - 16 X 1-1/2	2	
16	0166A	WASHER, LOCK 3/8 MED	2	
17	20982	SCREW, FSCS 3/8 - 16 X 1-1/2	4	
18	1480	WASHER, CS EXT. SHKP 3/8	4	
19	1948	PLATE, REAR 11HP HONDA	1	
20	10700	PLATE, FRONT, 11HP HONDA	1	
21	1245	BUSHING, GUARD RING	4	
22	1247	GROMMET, 1/4 X 7/8ID X 1-5/8OD	4	
23*	0252	SPINDLE 1" BORE	1	
24*	0456	BEARING, SHIELDED	1	
25*	0251	CLUTCH HOUSING DRUM	1	
26*	0458	BUSHING, CLUTCH HSING DRM	1	
27*	B1766	WEIGHT, CLUTCH	4	REPLACES P/N 0454
28*	0855	SPRING	1	
29*	0253	PLATE, CLUTCH EXPANSION	1	
30*	1868	SCREW, SHS 3/8-24X3/4, NOPLT	1	REPLACES P/N 0457
31		LIFT STRAP	1	CONTACT UNIT SALES DEPT./ACC.
				ITEM

HPLA/HPHA-SERIES 46" TROWEL — GUARD RING ASSY.

GUARD RING ASSY.



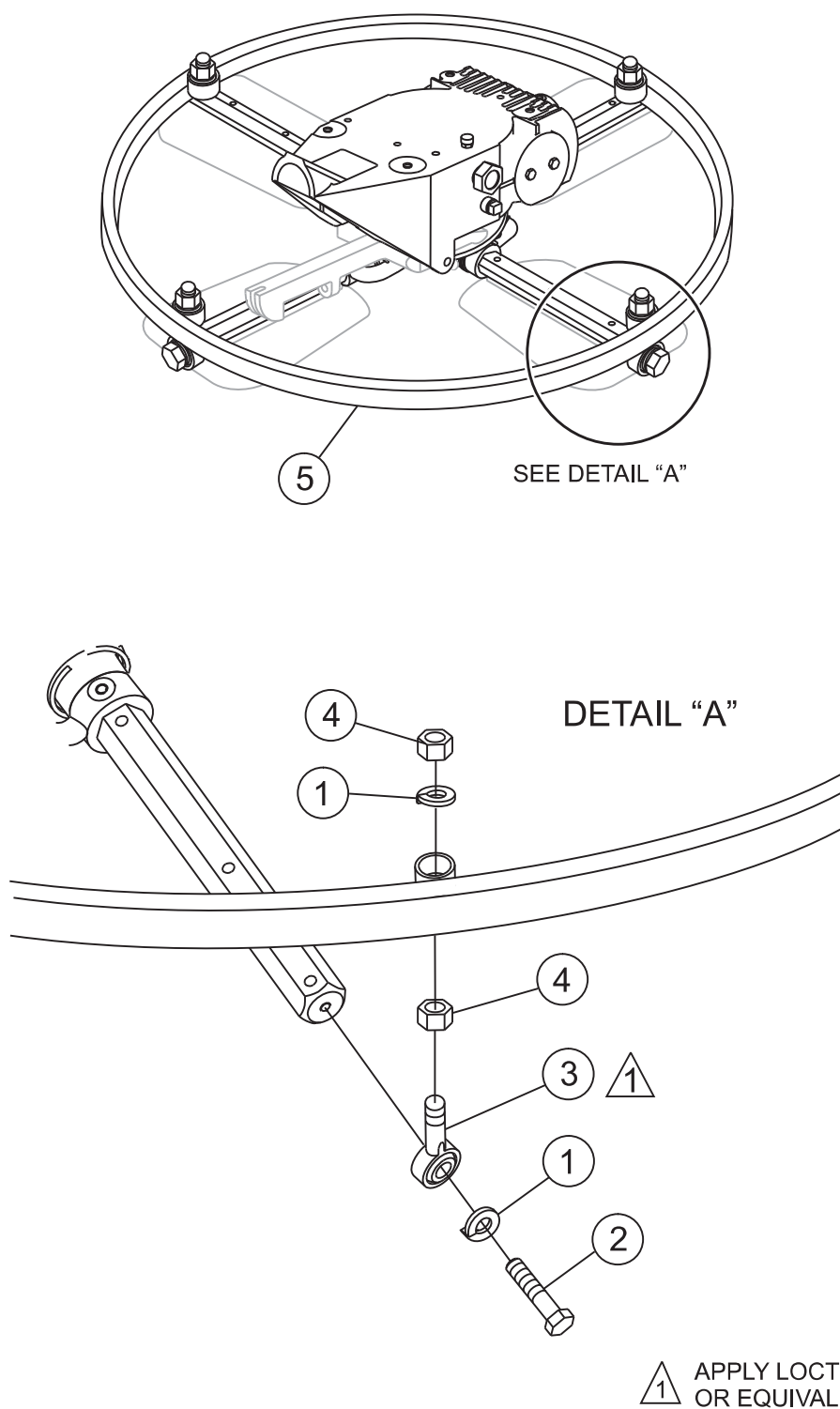
HPLA/HPHA-SERIES 46" TROWEL — GUARD RING ASSY.

GUARD RING ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	20811	GUARD RING ASSEMBLY	1	
2	1940	DECAL	1	

HPLA/HPHA-SERIES 46" TROWEL — STABILIZER RING ASSY.

STABILIZER RING ASSY.



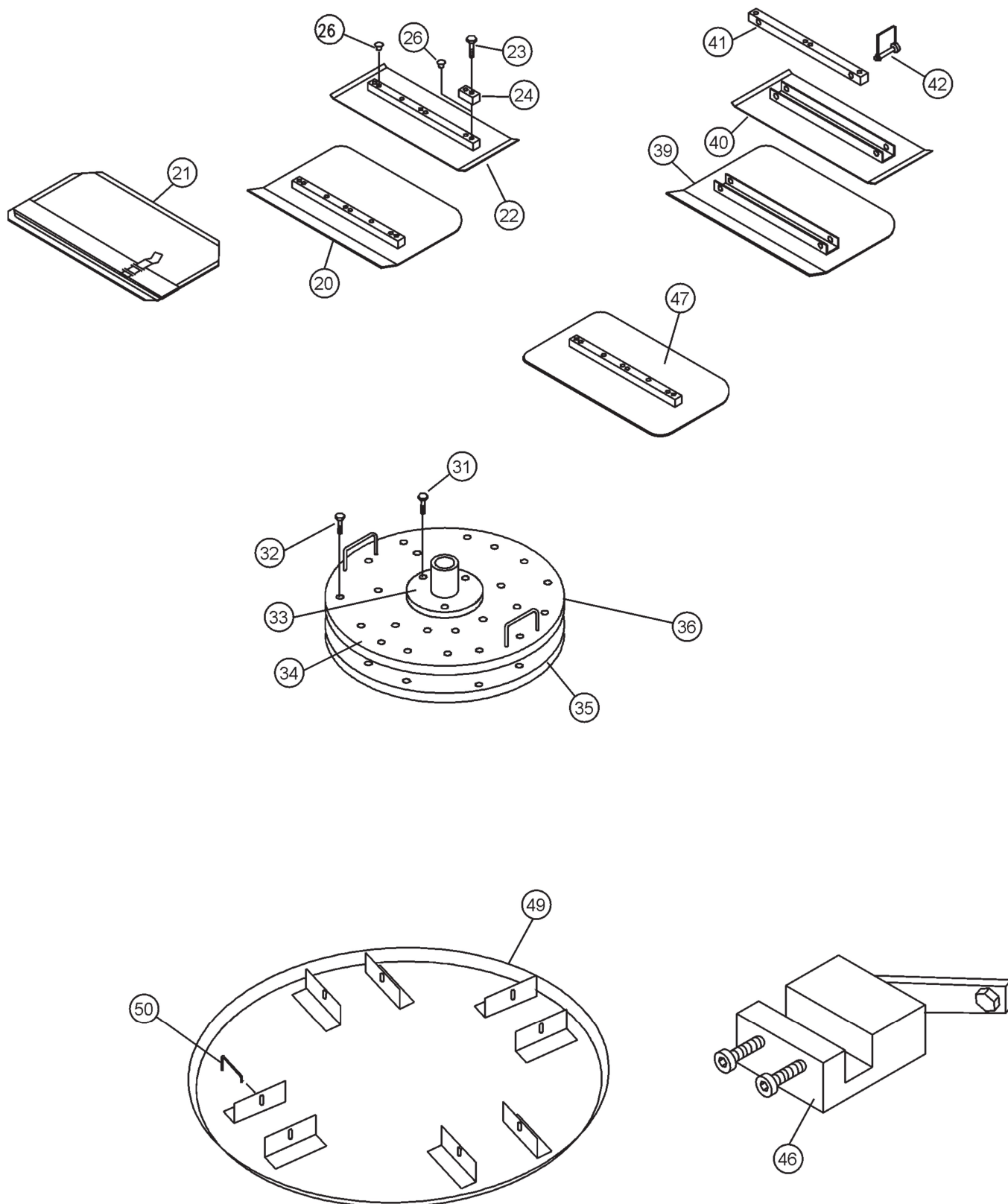
HPLA/HPHA-SERIES 46" TROWEL — STABILIZER RING ASSY.

STABILIZER RING ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	0161C	WASHER, LOCK, 5/16 MED	4	
2	1237	SCREW, SCH 5/16-18 X 7/8, NYL, NP	4	
3	1723	ROD END, 5/16-24 MALE	4	
4	6014C	NUT, HEX FINISH 5/16-24	8	
5	1483	RING, STABILIZER, 16-1/2" ARM	1	

HPLA/HPHA-SERIES 46" TROWEL — BLADES & ARM ADJ. FIXTURE

BLADES & ARM ADJ. FIXTURE ASSY.



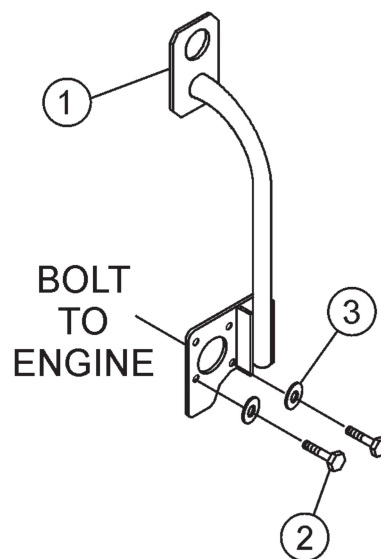
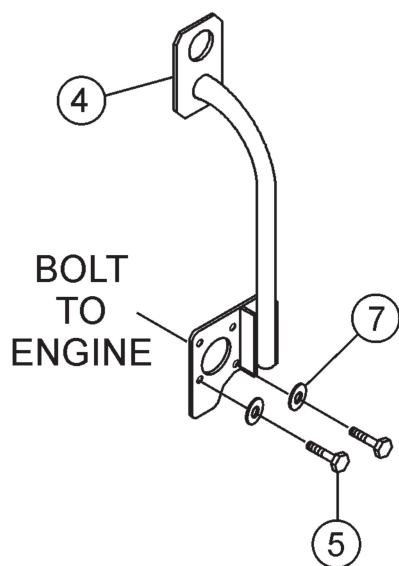
HPLA/HPHA-SERIES 46" TROWEL — BLADES & ARM ADJ. FIXTURE

BLADES & ARM ADJ. FIXTURE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
20		COMBO FLOAT & FINISH BLADE	4	CONTACT UNIT SALES DEPT./ACC. ITEM
20		ENDURO COMBO FLOAT & FINISH BLADE .	4	CONTACT UNIT SALES DEPT./ACC. ITEM
21		FLOAT BLADE	4	CONTACT UNIT SALES DEPT./ACC. ITEM
22		FINISH BLADE	4	CONTACT UNIT SALES DEPT./ACC. ITEM
22		ENDURO FINISH BLADE W/ROTATING	4	CONTACT UNIT SALES DEPT./ACC. ITEM
23	0202	HHCS 5/16-18X1" RING	4	
24	0201	GUARD RING LUG RING	4	
26	1434	TROWEL LUG (FINISH BLADE ONLY)	4	
27	1162A	LUBRA-CAP	4	
28	7281	STABILIZER RING 14 1/2" ARM	1	
29	6014C	HEX NUT 5/16-24	8	
30	1237	HHCS 5/16-18X7/8" NY-LOC	4	
31	0490	SHCS 7/16-14X1"	3	
32	0487	SHCS 3/8-16X1/2"	20	
33	0489	GRINDING DISC HUB	1	
34	0488	STONE MOUNT PLATE	1	
35		GRINDING DISC STONE ONLY	1	CONTACT UNIT SALES DEPT./ACC. ITEM
36		GRINDING DISC ASSY.	1	CONTACT UNIT SALES DEPT./ACC. ITEM
39		UNIVERSAL COMBO BLADE	4	CONTACT UNIT SALES DEPT./ACC. ITEM
39		ENDURO UNIVERSAL COMBO BLADE	4	CONTACT UNIT SALES DEPT./ACC. ITEM
40		UNIVERSAL FINISH BLADE	4	CONTACT UNIT SALES DEPT./ACC. ITEM
40		ENDURO UNIVERSAL FINISH BLADE	4	CONTACT UNIT SALES DEPT./ACC. ITEM
41		UNIVERSAL MOUNTING BAR	4	CONTACT UNIT SALES DEPT./ACC. ITEM
42		SNAP PIN 1/4"X1.3/4"	8	CONTACT UNIT SALES DEPT./ACC. ITEM
44	0166A	LOCK WASHER 3/8"	4	
46		TROWEL ARM ADJ. FIXTURE ASSY.	1	CONTACT UNIT SALES DEPT./ACC. ITEM
47		REVERSIBLE COMBO BLADE	4	CONTACT UNIT SALES DEPT./ACC. ITEM
48	1723	MALE R.H. ROD END 5/16"	1	
49		FLOAT DISC	1	CONTACT UNIT SALES DEPT./ACC. ITEM
50		FLOAT DISC LATCH PIN	4	CONTACT UNIT SALES DEPT./ACC. ITEM

HPLA/HPHA-SERIES 46" TROWEL — LIFTING BAIL ASSY. (OPTION)

LIFTING BAIL ASSY. (OPTION)



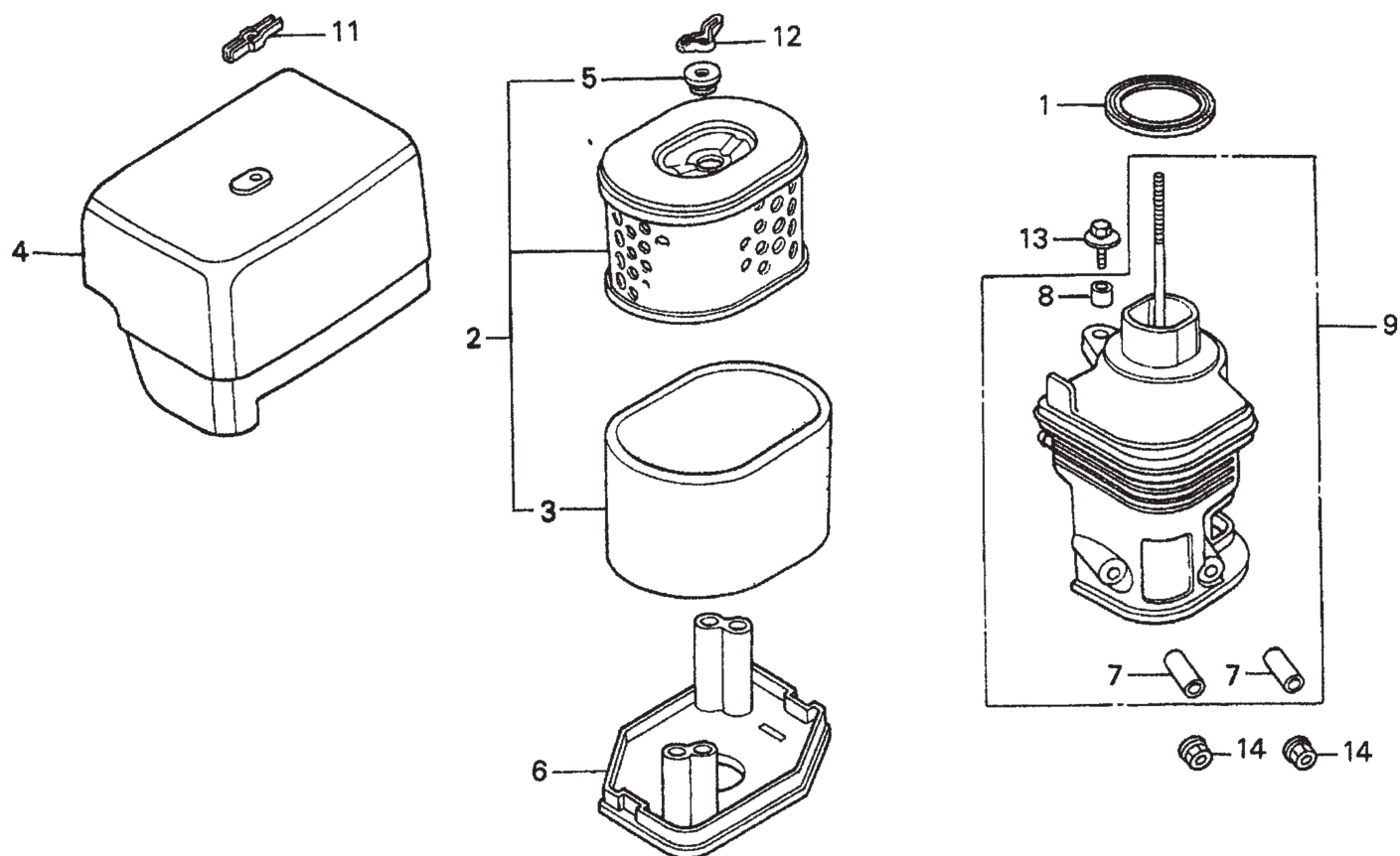
HPLA/HPHA-SERIES 46" TROWEL — LIFTING BAIL ASSY. (OPTION)

LIFTING BAIL ASSY. (OPTION)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1		LIFTING BAIL ASSY.	1	CONTACT UNIT SALES DEPT./ACC. ITEM
2	10229	HHCS 5/16-24X1"	4	
3	0161C	LOCK WASHER 5/16"	4	
4		LIFTING BAIL ASSY.	1	CONTACT UNIT SALES DEPT./ACC. ITEM
5	0205	HHCS 3/8-16X1"	3	
6	1394	FHSCS 3/8-16X1"	1	
7	0166A	LOCK WASHER 3/8"	3	

HONDA GX-340K1QAP2 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.

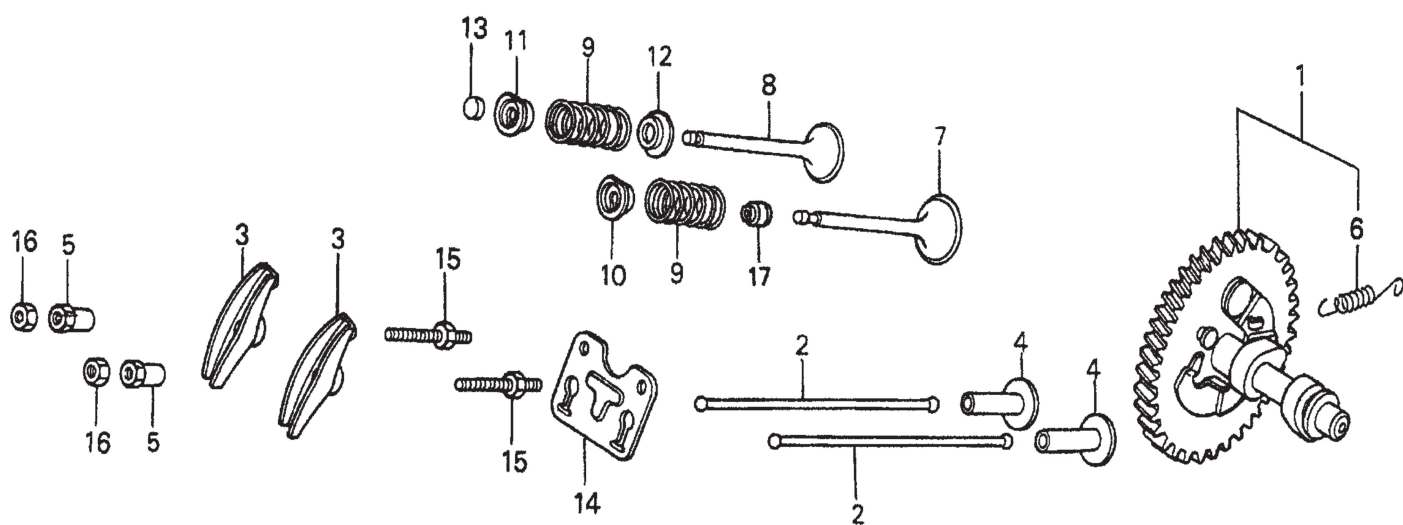


HONDA GX-340K1QAP2 ENGINE — AIR CLEANER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16271ZE2000	GASKET, ELBOW	1	
2	17210ZE3505	ELEMENT, AIR CLEANER.....	1	INCLUDES ITEMS W/*
3*	17218ZE3505	FILTER, OUTER	1	
4	17231ZE3W00	COVER, AIR CLEANER	1	
5*	17232891000	GROMMET, AIR CLEANER	1	
6	17235ZH9N00	NOSE, MUFFLER	1	
7#	17238ZE2310	COLLAR, AIR CLEANER	2	
8#	17239ZE1000	COLLAR B, AIR CLEANER	1	
9	17410ZH9N00	ELBOW, AIR CLEANER	1	INCLUDES ITEMS W/#
11	90203ZA0800	WINGNUT 6MM	1	
12	90325044000	WINGNUT, TOOL BOX SETTING	1	
13	934040602008	BOLT- WASHER 6 X 20	1	
14	9405006000	NUT, FLANGE 6MM	2	

HONDA GX-340K1QAP2 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.



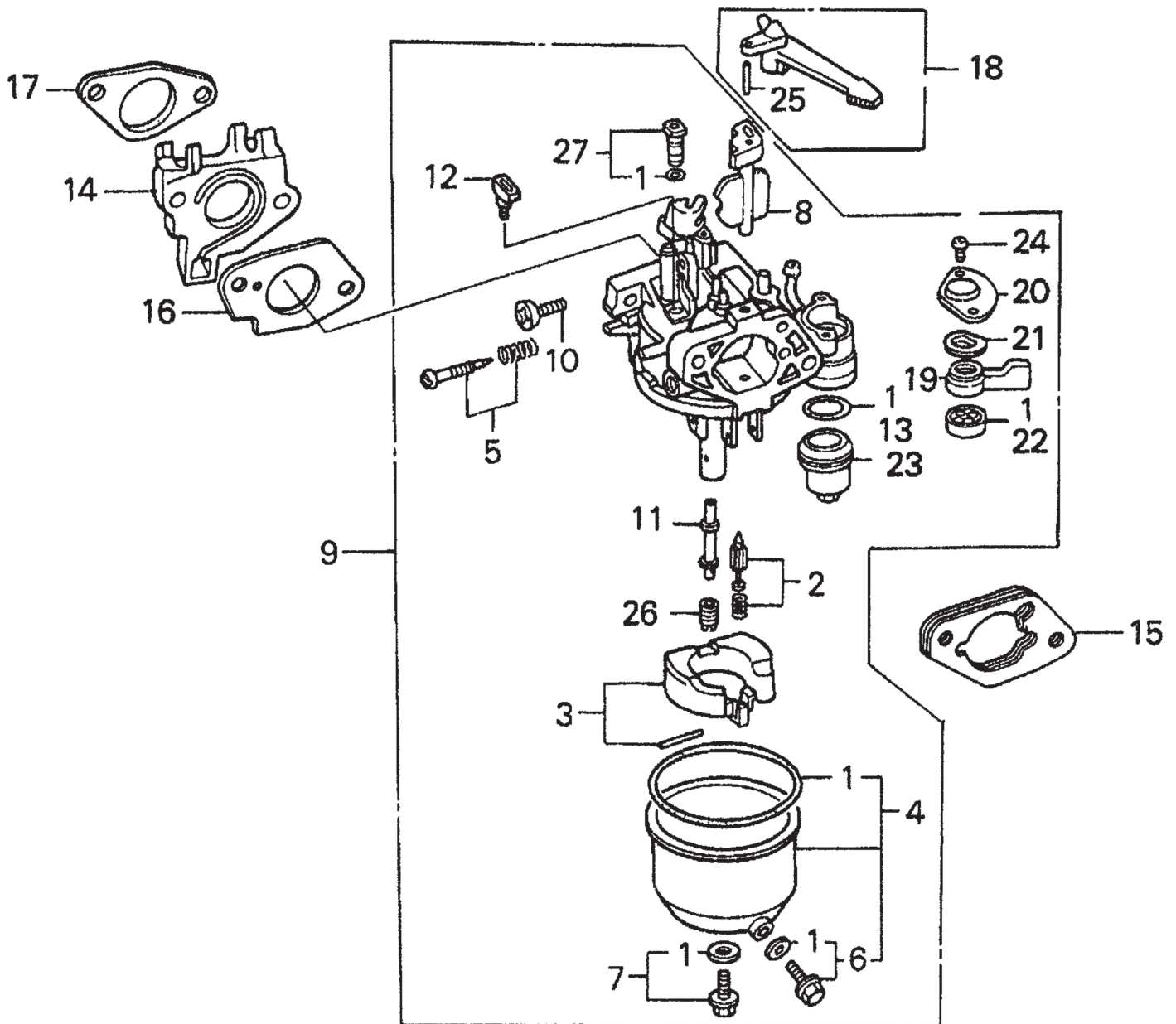
HONDA GX-340K1QAP2 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	14100ZE3020	CAMSHAFT ASSEMBLY	1	INCLUDES ITEM W/*
2	14410ZE3013	ROD, PUSH	2	
3	14431ZE2010	ARM, VALVE ROCKER	2	
4	14441ZE2000	LIFTER, VALVE	2	
5	14451ZE1013	PIVOT, ROCKER ARM	2	
6*	14568ZE1000	SPRING, WEIGHT RETURN	1	
7	14711ZE3000	VALVE, INTAKE	1	
8	14721ZE3000	VALVE, EXHAUST	1	
9	14751ZE2003	SPRING, VALVE	2	
10	14771ZE2000	RETAINER, INTAKE VALVE SPRING	1	
11	14773ZE2000	RETAINER, EXHAUST VALVE SPRING	1	
12	14775ZE2010	SEAT, VALVE SPRING	1	
13	14781ZE2000	ROTATOR, VALVE	1	
14	14791ZE2010	PLATE, PUSH ROD GUIDE	1	
15	90012ZE0010	BOLT, PIVOT 8MM	2	
16	90206ZE1000	NUT, PIVOT ADJ.	2	
17	12209ZE8003	SEAL, VALVE STEM	1	

HONDA GX-340K1QAP2 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.



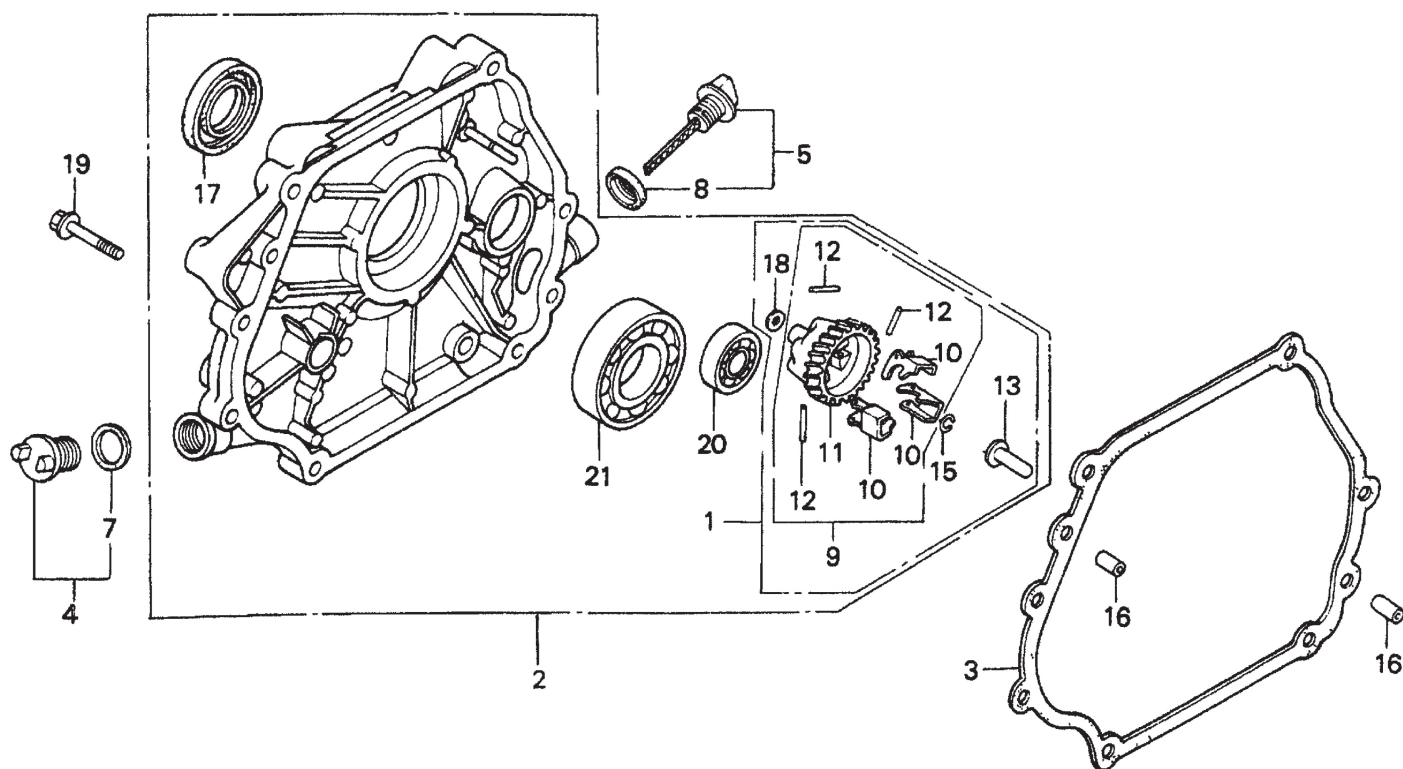
HONDA GX-340K1QAP2 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1*	16010ZE2812	GASKET SET	1	
2*	16011ZA0931	VALVE SET, FLOAT	1	
3*	16013ZA0931	FLOAT SET	1	
4*	16015ZE8005	CHAMBER SET, FLOAT	1	
5*	16016ZH7W01	SCREW SET	1	
6*	16024ZE1811	SCREW SET, DRAIN	1	
7*	16028ZE0005	SCREW SET B	1	
8*	16044ZE3811	CHOKE SET	1	
9*	16100ZE3V01	CARBURETOR ASSEMBLY (BE80B B)	1	INCLUDES ITEMS W/*
10*	16124ZE0005	SCREW, THROTTLE STOP	1	
11*	16166ZE3W50	NOZZLE, MAIN	1	
12*	16172ZE3W10	COLLAR, SET	1	
13*	16173001004	GASKET, FUEL STRAINER CUP	1	
14	16211ZE3000	INSULATOR, CARBURETOR	1	
15	16220ZA0702	SPACER, CARBURETOR	1	
16	16221ZE3800	GASKET, CARBURETOR	1	
17	16223ZE3800	GASKET, INSULATOR	1	
18	16610ZE1000	LEVER, CHOKE (STANDARD)	1	INCLUDES ITEM W/#
19*	16953ZE1812	LEVER, VALVE	1	
20*	16954ZE1812	PLATE, LEVER SETTING	1	
21*	16956ZE1811	SPRING, VALVE LEVER	1	
22*	16957ZE1812	GASKET, VALVE	1	
23*	16967ZE0811	CUP, FUEL STRAINER	1	
24*	93500030060H	SCREW, PAN 3 X 6	2	
25#	9430520122	PIN, SPRING 2 X12	1	
26*	99101ZH70880	JET, MAIN #88 (OPTIONAL)	1	
26*	99101ZH80800	JET, MAIN #90 (OPTIONAL)	1	
26*	99101ZH80920	JET, MAIN #92	1	
27*	99204ZE00350	JET SET, PILOT #35	1	

HONDA GX-340K1QAP2 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.



HONDA GX-340K1QAP2 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	06165ZE3000	GOVERNOR KIT (OPTIONAL)	1	INCLUDES ITEMS W/♣
2	11300ZE3602	COVER ASSY., CRANKCASE (Q TYPE)	1	INCLUDES ITEMS W/\$
3	11381ZE3801	GASKET, CASE COVER	1	
4	15600ZG4003	CAP ASSEMBLY, OIL FILLER	1	INCLUDES ITEMS W/★
5	15600735003	CAP ASSEMBLY, OIL FILLER	1	INCLUDES ITEMS W/%
7★	15625ZE1003	GASKET, OIL FILLER CAP	1	
8%	15625ZE1003	GASKET, OIL FILLER CAP	1	
9\$	16510ZE3000	GOVERNOR ASSEMBLY	1	INCLUDES ITEMS W/#
10#♣\$	16511ZE8000	WEIGHT, GOVERNOR	3	
11#♣\$	16512ZE3000	HOLDER, GOVERNOR WEIGHT	1	
12#♣\$	16513ZE2000	PIN, GOVERNOR WEIGHT	3	
13♣\$	16531ZE2000	SLIDER, GOVERNOR	1	
15♣\$	90602ZE1000	CLIP, GOVERNOR HOLDER	1	
16	90701HC4000	PIN, DOWEL 8X12	2	
17\$	91201ZE3004	OIL SEAL 35X52X8	1	
18♣\$	9410106800	WASHER, PLAIN 6MM	1	
19	957010804000	BOLT, FLANGE 8X40	7	
20\$	961006202000	BEARING, RADIAL BALL 6202	1	
21\$	961006207000	BEARING, RADIAL BALL 6207	1	

CONTROL ASSY.

**NO ART WORK
AVAILABLE**

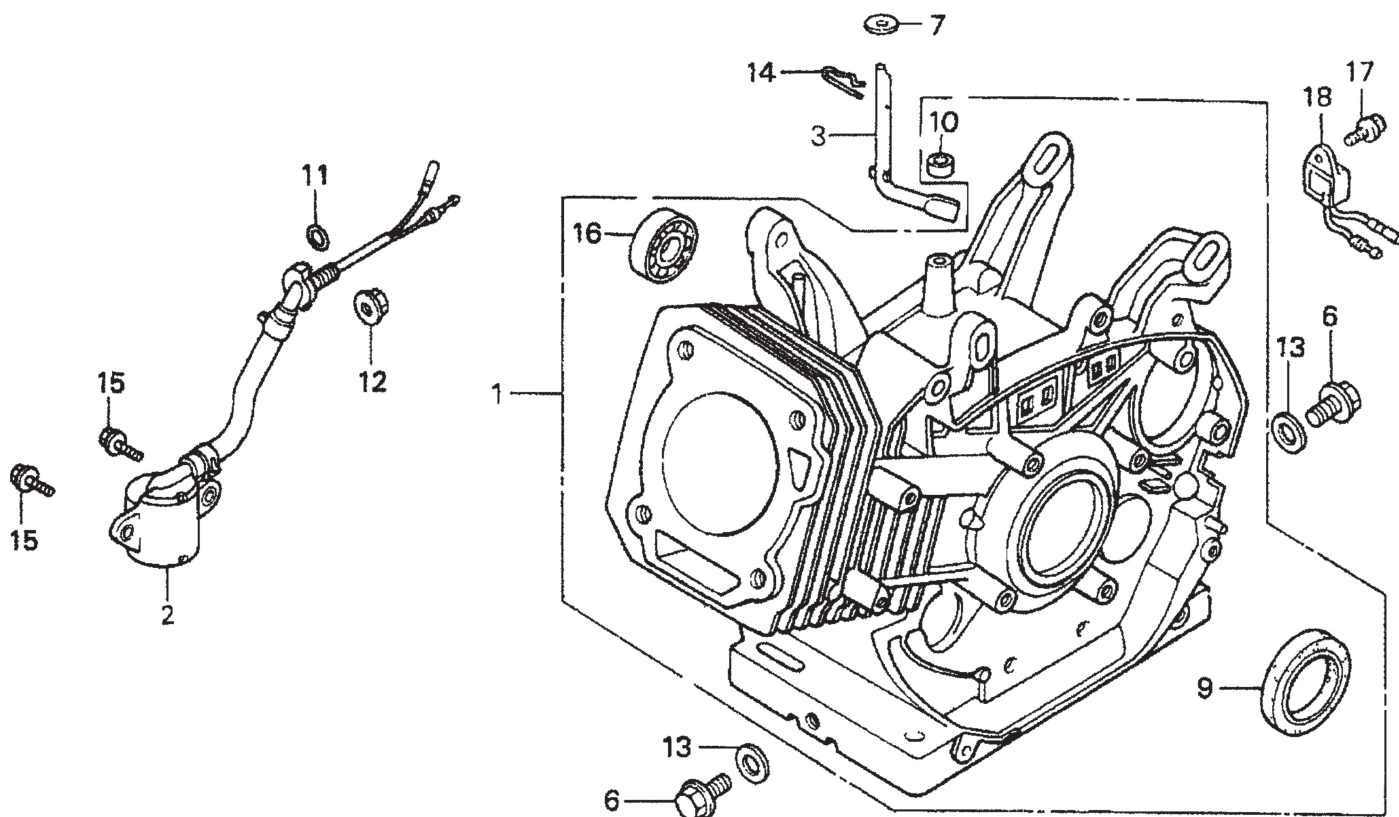
HONDA GX-340K1QAP2 ENGINE — CONTROL ASSY.

CONTROL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	16551ZE3000	ARM, GOVERNOR	1	
3	16555ZE3000	ROD, GOVERNOR	1	
4	16561ZE3000	SPRING, GOVERNOR	1	
5	16562ZE3000	SPRING, THROTTLE RETURN	1	
6	16570ZE3W10	CONTROL ASSEMBLY (REMOTE)	1	
8	16571ZE3W00	LEVER, CONTROL	1	
9	16574ZE1000	SPRING, LEVER	1	
10	16575ZE2W00	WASHER CONTROL LEVER	1	
11	16576891000	HOLDER, CABLE	1	
12	16578ZE1000	SPACER, CONTROL LEVER	1	
14	16584883300	SPRING, CONTROL ADJUSTING	1	
15	16592883310	SPRING, CABLE RETURN	1	
16	16594883010	HOLDER, WIRE	1	
17	90013883000	BOLT, FLANGE 6X12	2	
18	90015ZE5010	BOLT, GOVERNOR ARM	1	
19	90114SA0000	NUT, SELF- LOCK 6MM	1	
20	90605230000	CIRCLIP 5MM	1	
21	93500040060H	SCREW, PAN 4X6	1	
22	93500050320A	SCREW, PAN 5X32	1	
23	93500050160A	SCREW, PAN 5X16	1	
24	9405006000	NUT, FLANGE 6MM	1	

HONDA GX-340K1QAP2 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL



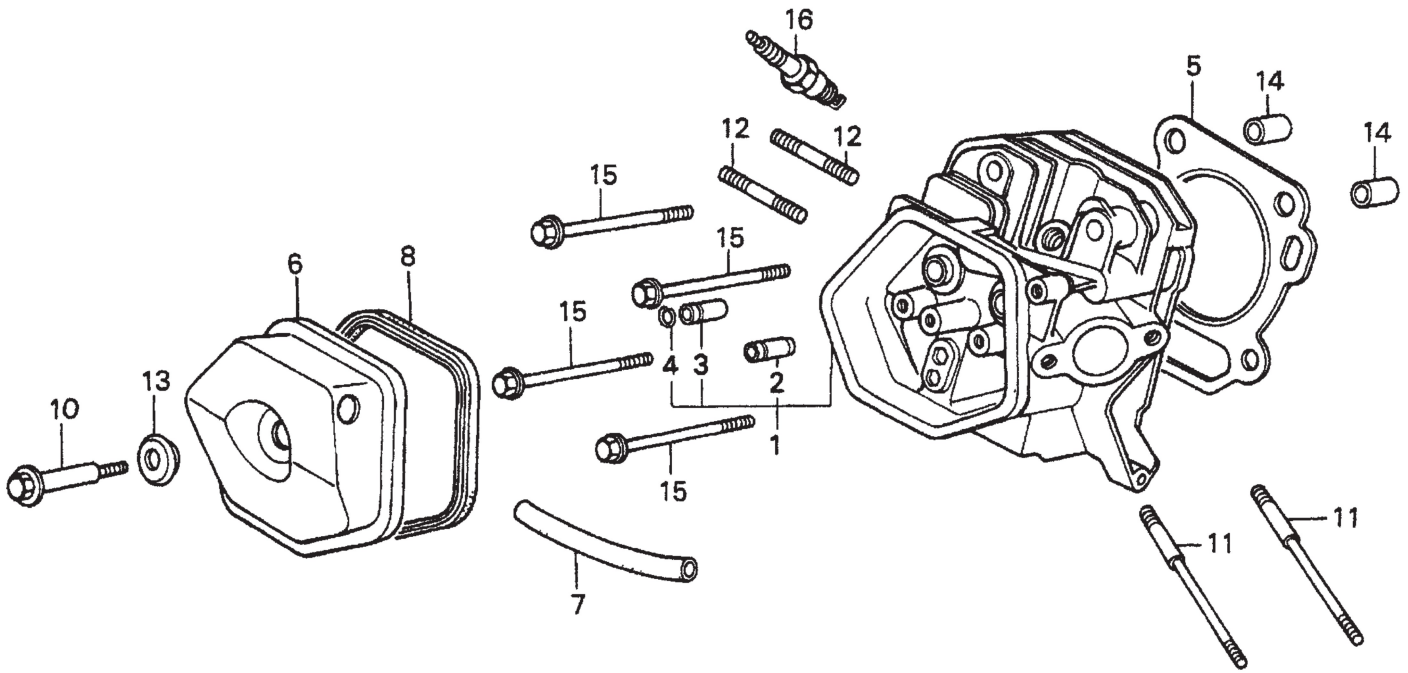
HONDA GX-340K1QAP2 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12000ZE3816	CYLINDER ASSEMBLY	1	INCLUDES ITEMS W/*
2	15510ZE2043	SWITCH ASSEMBLY OIL LEVEL	1	
3	16541ZE3010	SHAFT, GOVERNOR ARM	1	
6	90131896650	BOLT, DRAIN PLUG	2	
7	90446KE1000	WASHER 8.2X17X0.8	1	
9*	91201ZE3004	OIL SEAL 35X52X8	1	
10*	91201ZE9003	OIL SEAL 8X14X5	1	
11	91353671003	O- RING 13.5X1.5 (ARAI)	1	
12	9405010000	NUT, FLANGE 10MM	1	
13	9410912000	WASHER, DRAIN PLUG 12MM	2	
14	9425110000	PIN, LOCK 10MM	1	
15	957010601200	BOLT, FLANGE 6X12	2	
16*	961006202000	BEARING, RADIAL BALL 6202	1	
17	90013883000	BOLT, FLANGE 6X12 (CT200)	1	
18	34150ZH7003	ALERT UNIT, OIL	1	

HONDA GX-340K1QAP2 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.



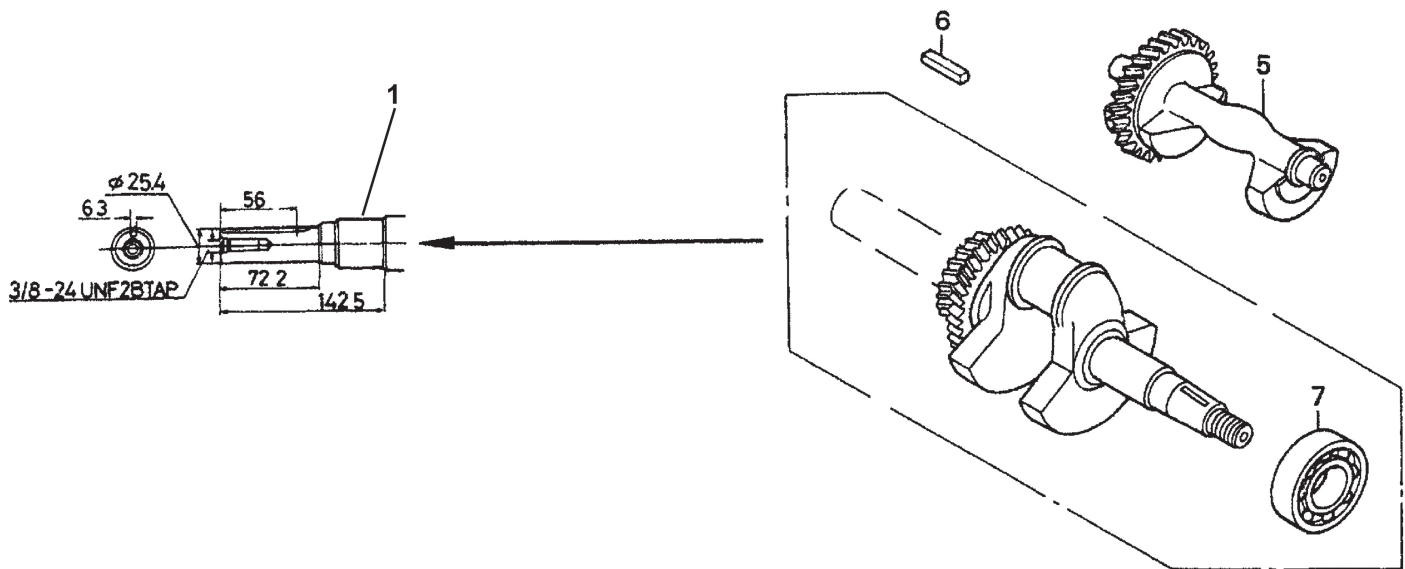
HONDA GX-340K1QAP2 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12200ZF6W00	CYLINDER HEAD	1	INCLUDES ITEMS W/*
2*	12204ZE2306	GUIDE, VALVE OS (OPTIONAL)	1	
3*	12205ZE2305	GUIDE, EX. VALVE OS (OPTIONAL)	1	
4*	12216ZE2300	CLIP, VALVE GUIDE	1	
5	12251ZE3W00	GASKET, CYLINDER HEAD	1	
6	12310ZE3791	COVER, HEAD	1	
7	12315ZE3840	TUBE, BREATHER	1	
8	12391ZE2020	GASKET, CYLINDER HEAD COVER	1	
10	90014ZE2000	BOLT, HEAD COVER	1	
11	90042ZE8000	BOLT, STUD 8X131.5	2	
12	92900080320E	BOLT 2, STUD 8X32	2	
13	90441ZE2010	WASHER, HEAD COVER	1	
14	9430112200	PIN A, DOWEL 12X20	2	
15	957011008000	BOLT, FLANGE 10X80	4	
16	9807956846	SPARK PLUG BPR6ES (NGK)	1	

HONDA GX-340K1QAP2 ENGINE — CRANKSHAFT ASSY.

CRANKSHAFT ASSY.



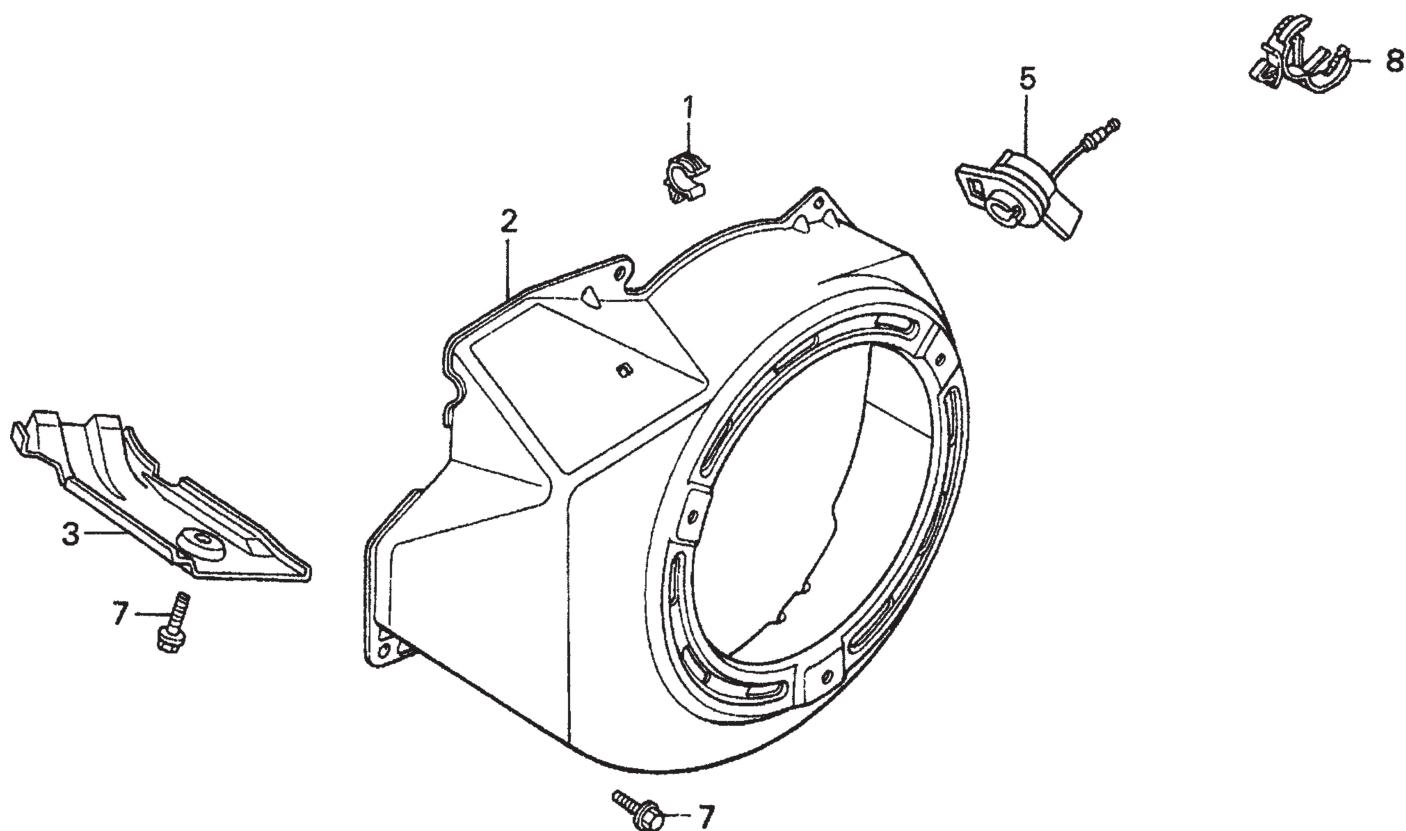
HONDA GX-340K1QAP2 ENGINE — CRANKSHAFT ASSY.

CRANKSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13310ZE3601	CRANKSHAFT, Q- TYPE	1	INCLUDES ITEM W/*
5	13351ZE3010	WEIGHT, BALANCER	1	
6	90745ZE2600	KEY 6.3X6.3X43	1	
7*	961006207000	BEARING, RADIAL BALL 6207	1	

HONDA GX-340K1QAP2 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.



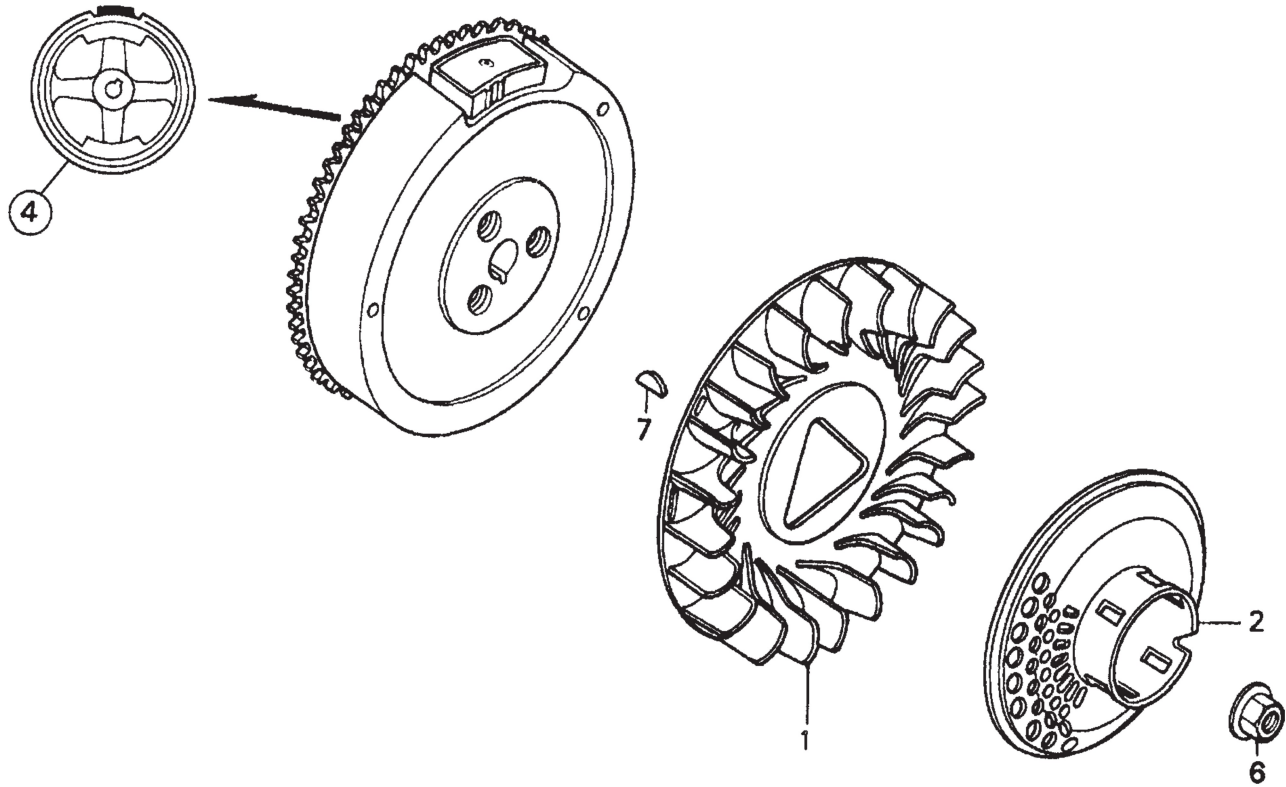
HONDA GX-340K1QAP2 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16731ZE2003	CLIP, TUBE	1	
2	19610ZE3010ZB	COVER, FAN *NH1* (BLACK)	1	
3	19631ZE3W00	SHROUD	1	
5	36100ZH7003	SWITCH ASSEMBLY, ENGINE STOP	1	
7	90013883000	BOLT, FLANGE 6X12 (CT200)	6	
8	90684ZA0601	CLIP, WIRE HARNESS	1	

HONDA GX-340K1QAP2 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.



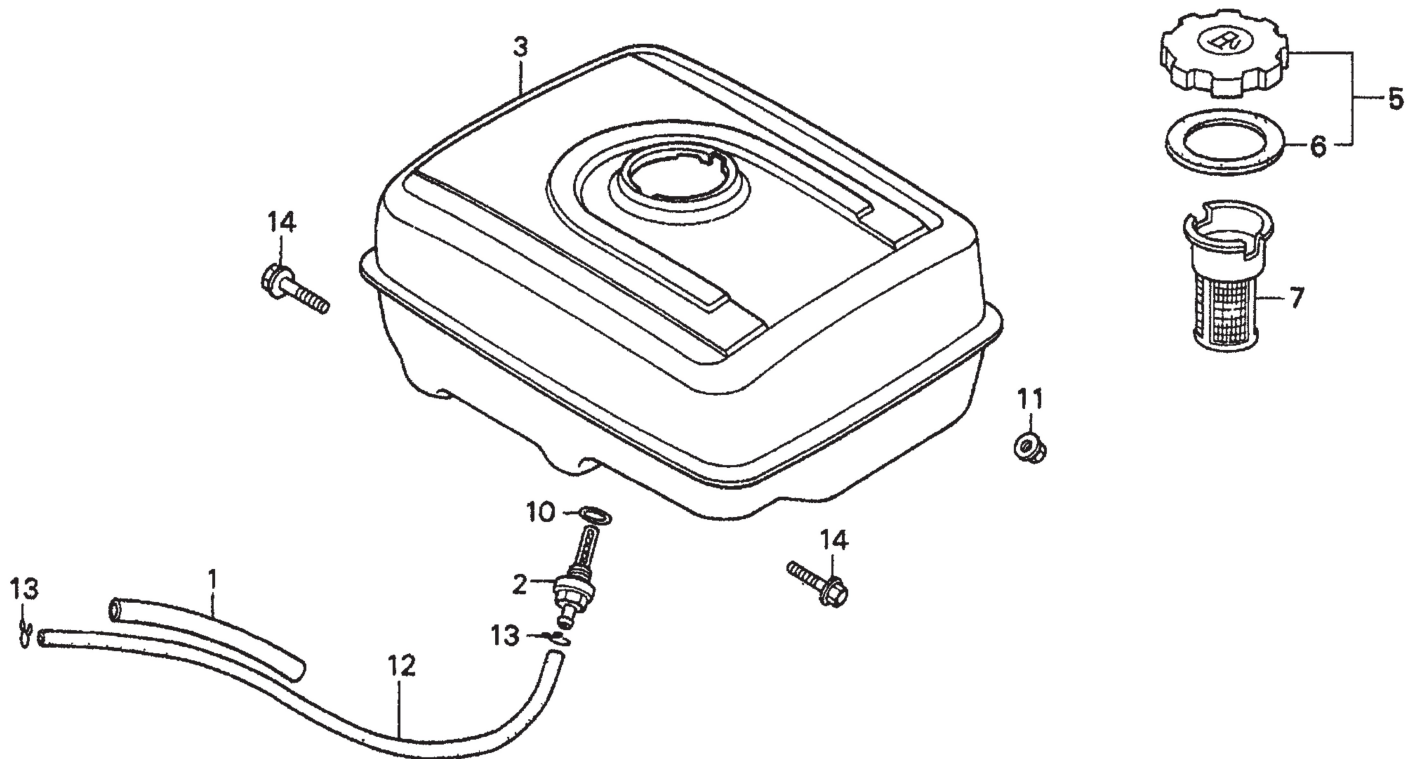
HONDA GX-340K1QAP2 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	19511ZE3000	FAN, COOLING	1	
2	28450ZE3W11	PULLEY, STARTER (SCREEN GRID)	1	
4	31100ZE3701	FLYWHEEL	1	
6	90201ZE3V00	NUT, SPECIAL 16MM	1	
7	90741ZE2000	KEY, SPECIAL WOODRUFF 25X18	1	

HONDA GX-340K1QAP2 ENGINE — FUEL TANK ASSY.

FUEL TANK ASSY.



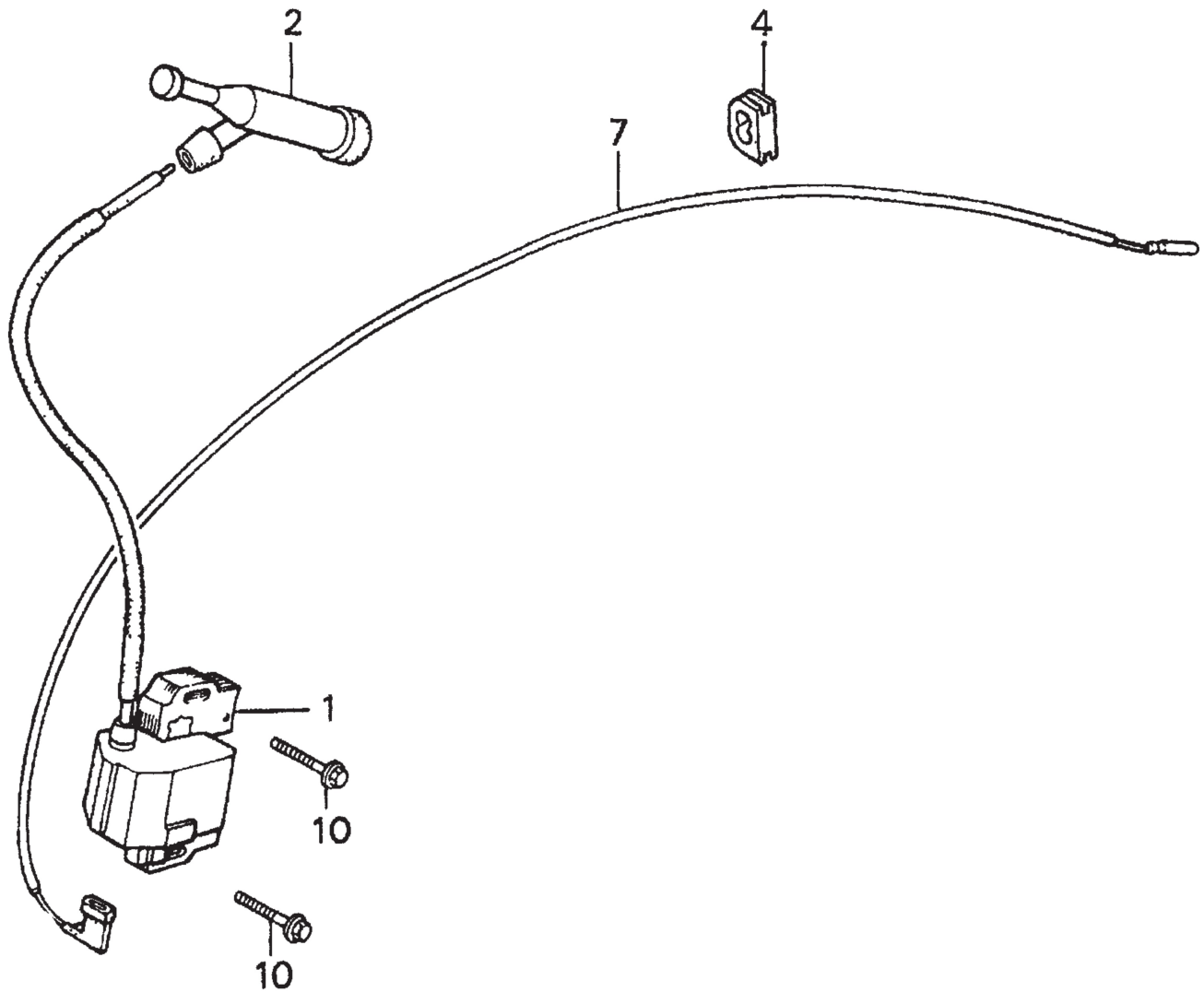
HONDA GX-340K1QAP2 ENGINE — FUEL TANK ASSY.

FUEL TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16854ZH8000	RUBBER, SUPPORTER 107MM	1	
2	16955ZE1000	JOINT FUEL TANK	1	
3	17510ZE3010ZB	TANK, FUEL "NH1" (BLACK)	1	
5	17620ZH7023	CAP, FUEL FILLER	1	INCLUDES ITEM W/*
6*	17631ZH7993	GASKET, FUEL FILLER CAP	1	
7	17672ZE2W01	FILTER, FUEL	1	
10	91353671003	O- RING 13.5X1.5 (ARAI)	1	
11	9405008000	NUT, FLANGE 8MM	2	
12	950014500360M	BULK HOSE, FUEL (4.5X3000) (4.5X235)	1	
13	9500202080	CLIP, TUBE B8	2	
14	957010802500	BOLT, FLANGE 8X25	2	

HONDA GX-340K1QAP2 ENGINE — IGNITION COIL ASSY.

IGNITION COIL ASSY.



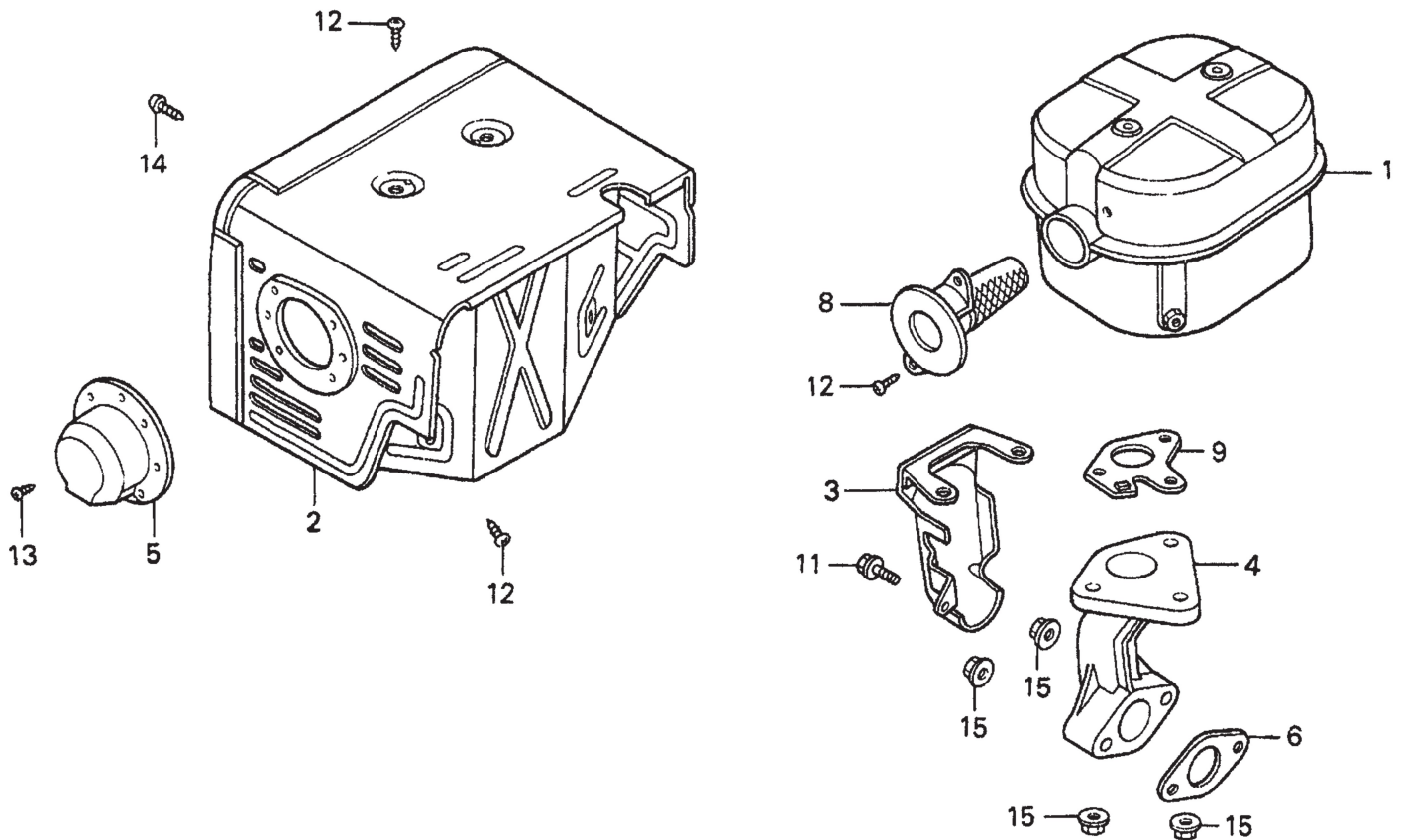
HONDA GX-340K1QAP2 ENGINE — IGNITION COIL ASSY.

IGNITION COIL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	30500ZE2023	COIL ASSEMBLY, IGNITION	1	
2	30700ZE1013	CAP ASSEMBLY, NOISE SUPPRESSOR	1	
4	31512ZE2000	GROMMET, WIRE	1	
7	36101ZE2701	WIRE, STOP SWITCH 430MM	1	
10	90015883000	BOLT, FLANGE 6X28	2	

HONDA GX-340K1QAP2 ENGINE — MUFFLER ASSY.

MUFFLER ASSY.



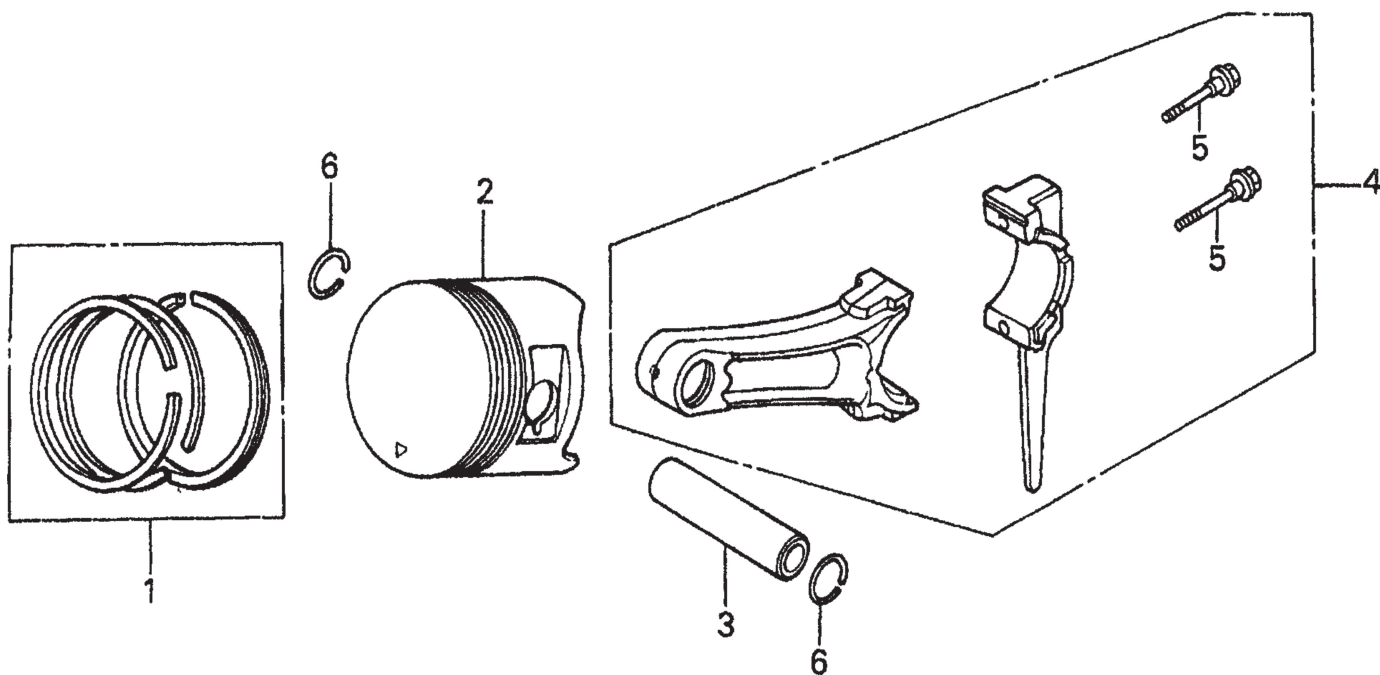
HONDA GX-340K1QAP2 ENGINE — MUFFLER ASSY.

MUFFLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18310ZE3W00	MUFFLER	1	
2	18320ZE3W01	PROTECTOR, MUFFLER	1	
3	18323ZE3W40	PROTECTOR, EXHAUST PIPE	1	
4	18330ZE2W00	PIPE, EXHAUST	1	
5	18331ZE3810	CAP, MUFFLER	1	
6	18333ZF6W01	GASKET, EXHAUST PIPE	1	
8	18355ZE3010	ARRESTER, SPARK	1	
9	18381ZE2W10	GASKET, MUFFLER (ARRESTER)	1	
11	90013883000	BOLT, FLANGE 6X12 (CT200)	1	
12	90050ZE1000	SCREW, TAPPING 5X8	6	
13	90055ZE1000	SCREW, TAPPING 4X6	3	
14	93500060060B	SCREW, PAN 6X6	1	
15	9405008000	NUT, FLANGE 8MM	5	

HONDA GX-340K1QAP2 ENGINE — PISTON ASSY.

PISTON ASSY.



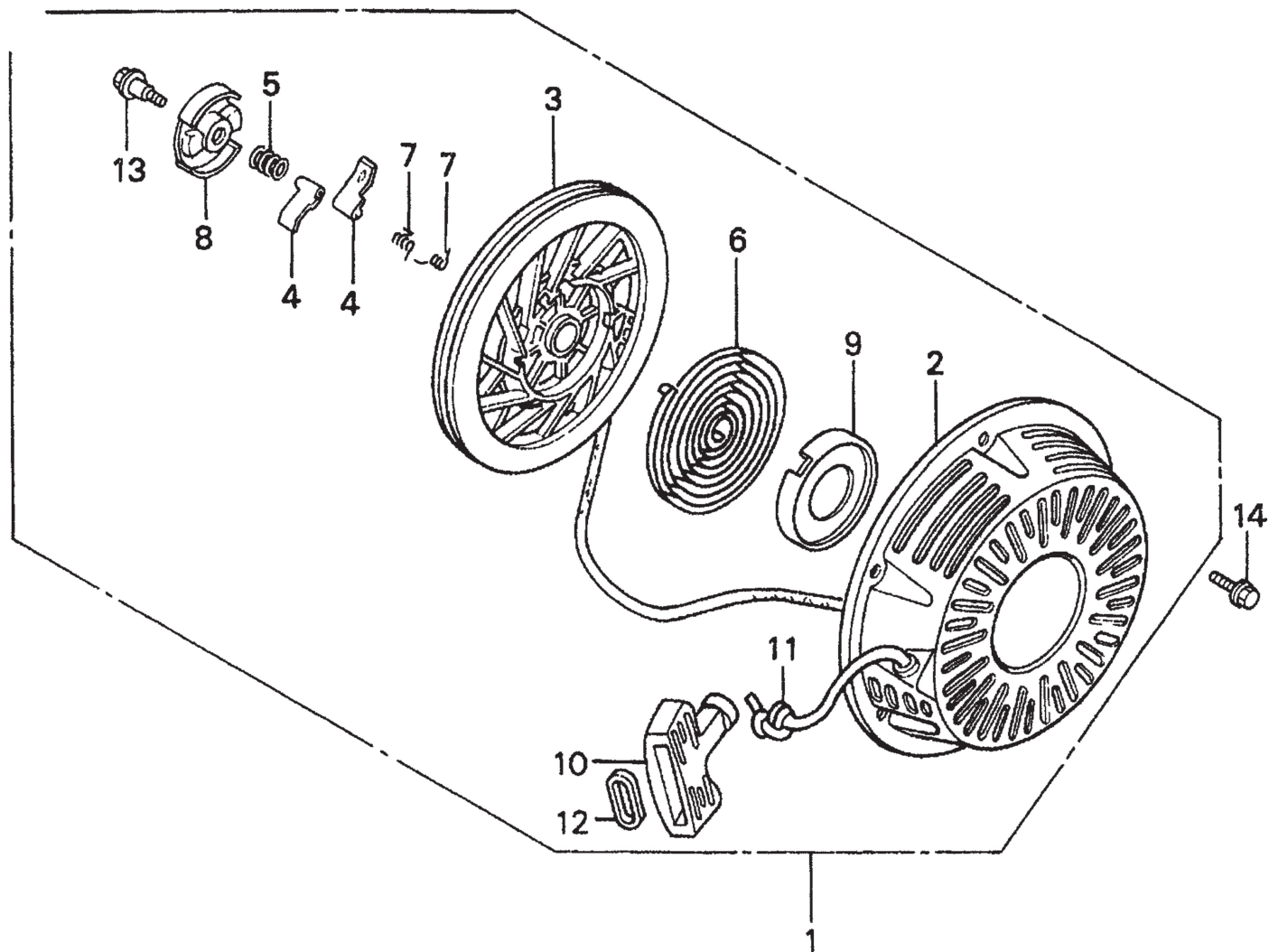
HONDA GX-340K1QAP2 ENGINE — PISTON ASSY.

PISTON ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13010ZE3003	RING SET, PISTON (STANDARD)	1	
1	13011ZE3003	RING SET, PISTON (OS 0.25)	1	
1	13012ZE3003	RING SET, PISTON (OS 0.50)	1	
1	13013ZE3003	RING SET, PISTON (0.75)	1	
2	13101ZE3W00	PISTON STANDARD	1	
2	13102ZE3W00	PISTON (OS 0.25)	1	
2	13103ZE3W00	PISTON (OS 0.50)	1	
2	13104ZE3W00	PISTON (0.75)	1	
3	13111ZF6000	PIN, PISTON	1	
4	13200ZE3010	ROD ASSEMBLY, CONNECTING (STD.)	1	
4	13200ZE3315	ROD ASSEMBLY, CONNECTING (US 0.25)	1	
5	90001ZE8000	BOLT, CONNECTING ROD	2	
6	90601ZE3000	CLIP, PISTON PIN 20MM	2	

HONDA GX-340K1QAP2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.



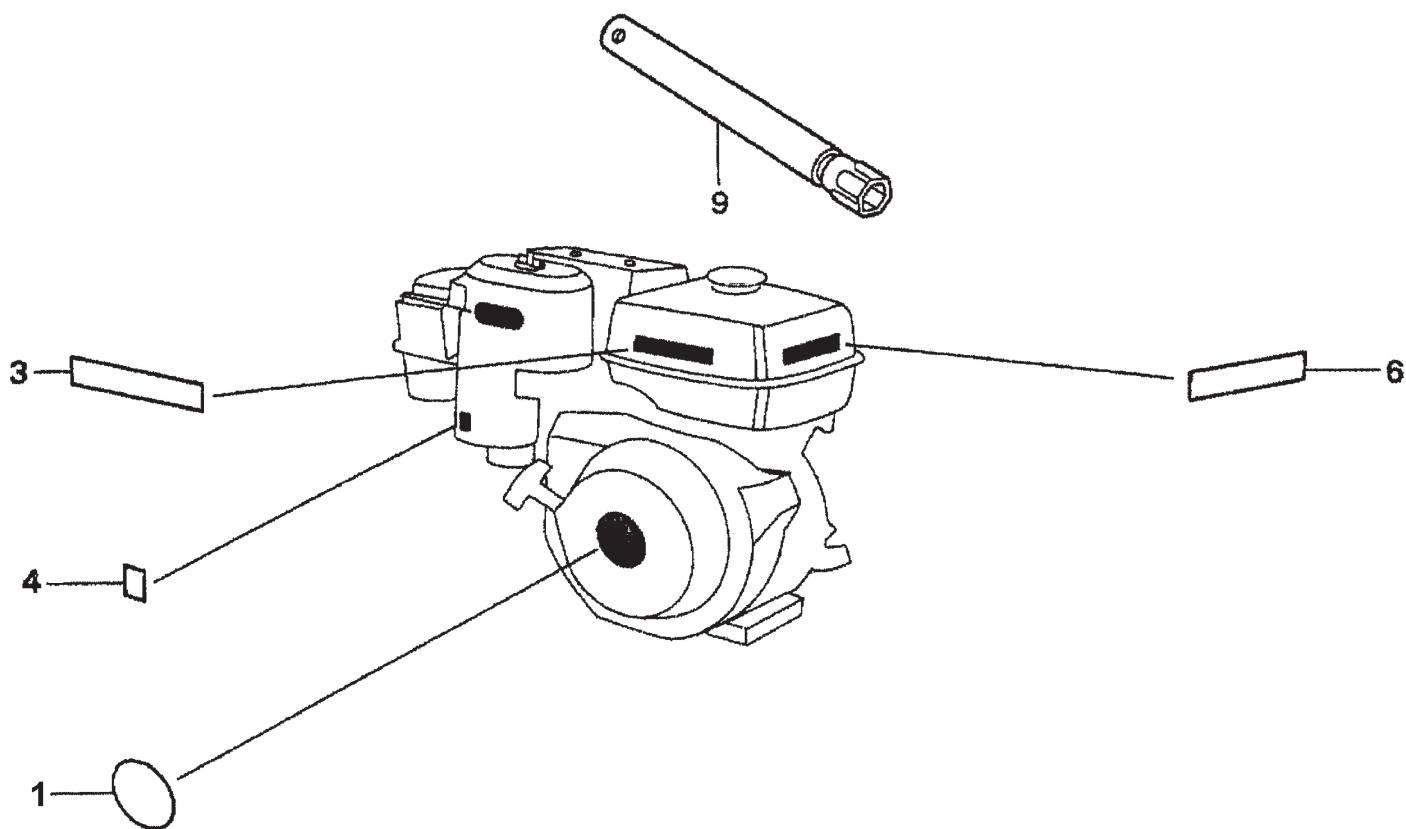
HONDA GX-340K1QAP2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	28400ZE3W01ZB	STARTER ASSY., RECOIL "NH1"	1	BLACK
2	28410ZE3W01ZB	CASE, RECOIL STARTER "NH1"	1	BLACK
3	28421ZE3W01	PULLEY, RECOIL STARTER	1	
4	28422ZE2W01	RATCHET, STARTER	2	
5	28441ZE2W01	SPRING, FRICTION	1	
6	28442ZE2W01	SPRING, STARTER RETURN	1	
7	28443ZE2W01	SPRING, RATCHET	2	
8	28444ZE2W01	RETAINER, SPRING	1	
9	28445ZE2W01	HOLDER, SPRING	1	
10	28461ZE2W02	GRIP, STARTER	1	
11	28462ZE3W01	ROPE, RECOIL STARTER	1	
12	28469ZE2W01	GRIP, REINFORCEMENT	1	
13	90004ZE2W01	SCREW, CENTER	1	
14	957010600800	BOLT, FLANGE 6X8	3	

HONDA GX-340K1QAP2 ENGINE — LABELS ASSY.

LABELS ASSY.



HONDA GX-340K1QAP2 ENGINE — LABELS ASSY.

LABELS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	87521ZE3W01	EMBLEM	1	
3	87522ZH9000	LABEL, CAUTION	1	
4	87528ZE2810	MARK, CHOKE (EXTERNAL)	1	
6	87532ZH8810	MARK, OIL ALERT (E)	1	
9	89218ZE1000	WRENCH, SPARK PLUG	1	