



4 INCH CHIPPER

73413 - 13 HP HONDA

73413S - 13 HP HONDA

73420 - 20 HP HONDA

73420F - 20 HP HONDA

73420S - 20 HP HONDA

73454 - 540 PTO

73454S - 540 PTO



PN: 12128 R030907
Companion to 12127

PARTS MANUAL

Before You Begin

DEAR ECHO BEAR CAT CUSTOMER

Thank you for purchasing a ECHO Bear Cat product. The ECHO Bear Cat line is designed, tested, and manufactured to give years of dependable performance. To keep your machine operating at peak efficiency, it is necessary to adjust it correctly and make regular inspections. The following pages will assist you in the operation and maintenance of your machine. Please read and understand this manual before operating your machine.

If you have any questions or comments about this manual, please call us toll-free at 1-800-247-7335.

If you have any questions or problems with your machine, please call or write your local authorized ECHO Bear Cat Dealer.

This document is based on information available at the time of its publication. ECHO Bear Cat is continually making improvements and developing new equipment. In doing so, we reserve the right to make changes or add improvements to our product without obligation for equipment previously sold.

PLEASE SEND US YOUR WARRANTY CARD

A warranty card is included in your owner's kit packaged with your machine. Please take the time to fill in the information requested on the card. When you send your completed card to us, we will register your machine and start your coverage under our limited warranty.

PARTS ORDERING INFORMATION

For service assistance or parts, contact your nearest authorized ECHO Bear Cat dealer or the factory. Your nearest authorized dealer will need to know the serial number of your machine to provide the most efficient service. See below for information on how to identify and record the serial number for your machine.

If you need engine service or parts:

For engine service or parts, contact your nearest authorized engine dealer. An authorized engine dealer can handle all parts, repairs, and warranty service concerning the engine.

REPLACEMENT PARTS

Only genuine ECHO Bear Cat replacement parts should be used to repair the machine. Replacement parts manufactured by others could present safety hazards, even though they may fit on this machine. Replacement parts are available from your ECHO Bear Cat dealer.

Provide the following when ordering parts:

The SERIAL NUMBER of your machine.

The PART NUMBER of the part.

The PART DESCRIPTION.

The QUANTITY needed.

SERIAL NUMBER LOCATION

Please record the serial number in the space provided and on the warranty and registration card.

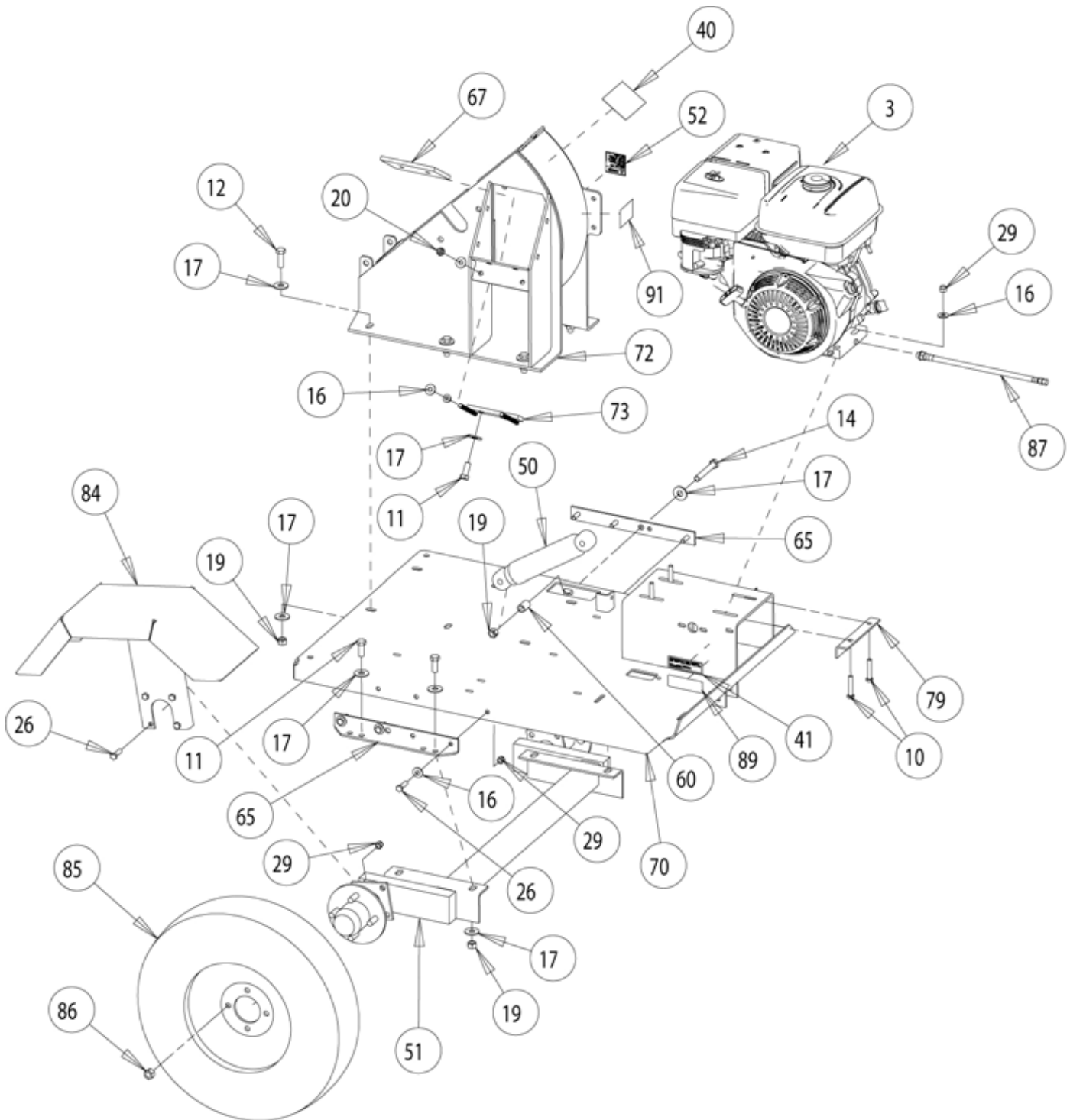
MANUFACTURED BY CRARY INDUSTRIES
WEST FARGO, NORTH DAKOTA 58078 U.S.A.
SERIAL NUMBER
MANUFACTURED IN U.S.A.

SERIAL NUMBER

HOW TO CONTACT ECHO BEAR CAT			
ADDRESS	PHONE	E-MAIL	HOURS
237 NW 12th Street P.O. Box 849 West Fargo, ND 58078	800-247-7335 701-282-5520 FAX: 701-282-9522	opesales@crary.com service@crary.com	Monday - Friday, 8 am to 5 pm Central Time

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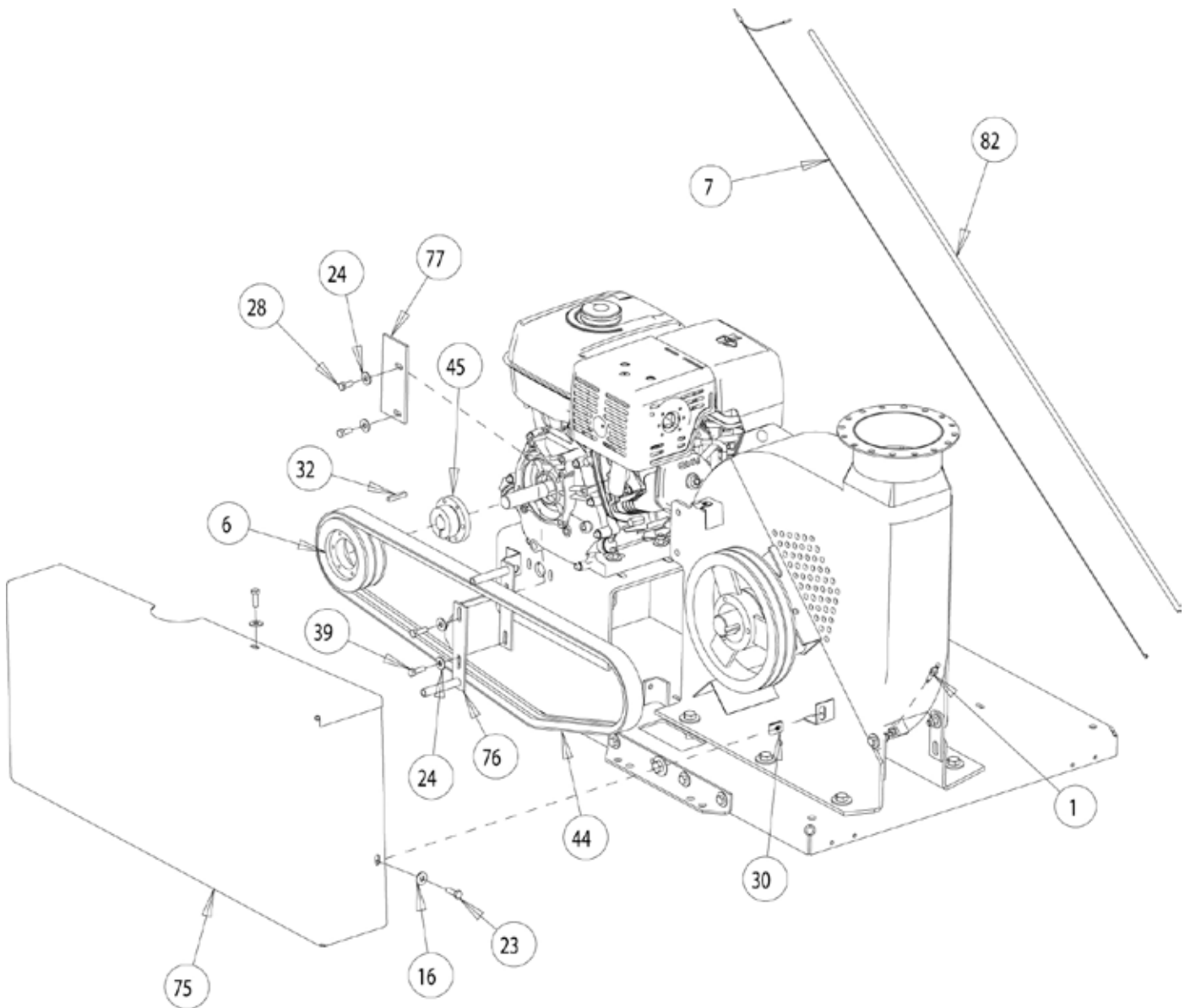
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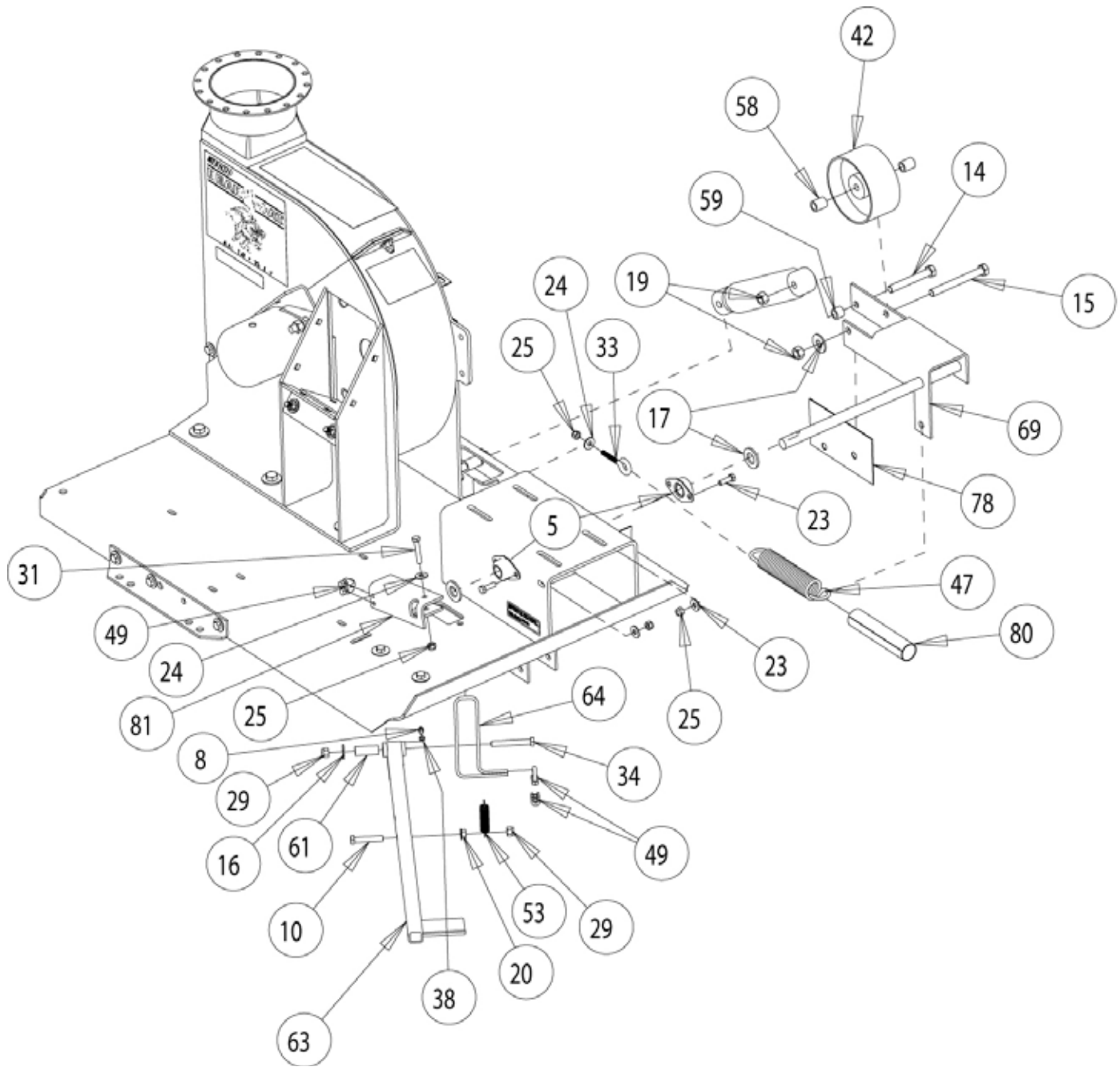
BASE ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
3	12120	ENGINE, 13 HP HONDA	1
10	15008	BOLT, 3/8" NC X 2 GR5 HEX HD	5
11	15013	BOLT, 1/2" X 1-1/4" HEX HD	6
12	15014	BOLT, 1/2" X 1-1/2" HEX HD	6
14	15016	BOLT, 1/2" X 3-1/2" HEX HD	2
16	15031	WASHER, 3/8 FLAT	20
17	15034	WASHER, 1/2 FLAT	24
19	15049	NUT, 1/2" CENTERLOCK GRB ZP	27
20	15051	NUT, 3/8" SERR FLANGE	5
26	15364	BOLT, 3/8" NC X 1-1/4" HEX HD	7
29	15388	NUT, 3/8" NYLOCK	15
40	16085	DECAL, KNIFE ACCESS (73413)	1
	12169	DECAL, KNIFE ACCESS (73413S)	1
41	16155	DECAL, SERIAL NUMBER	1
50	16786	ABSORBER, IDLER SHOCK	1
51	16917	AXLE, TORSION SUSPENSION (1000 LB)	1
52	17423	DECAL, SHIELD DANGER (73413)	1
	12174	DECAL, SHIELD DANGER (73413S)	1
60	70369	SPACER, .75 X 1.18	1
65	71911	AXLE SUPPORT ANGLE	2
67	72740-12	4 INCH CHIPPER ANVIL	1
70	72440-12	CHIPPER TRAILER WELDMENT	1
72	72445-35	CHIPPER BOTTOM WELDMENT	1
73	72446-12	BLOCK ADJUSTOR WELDMENT	1
	72417	STRIP, ADJUSTOR BLOCK	1
	72424	STUD, ADJUSTOR BLOCK	2
79	72492-12	ENGINE ADJUSTMENT ANGLE	2
84	71480	CHIPPER FENDER WELDMENT	2
85	16548	5.30-12 TIRE AND SPOKE RIM ASSY	2
86	15527	NUT, 1/2-20 WHEEL	8
87	14373-00	CRANKCASE DRAIN HOSE ASSY	1
89	12192	DECAL, 73413S INFORMATION	1
91	16753	DECAL, CE	1



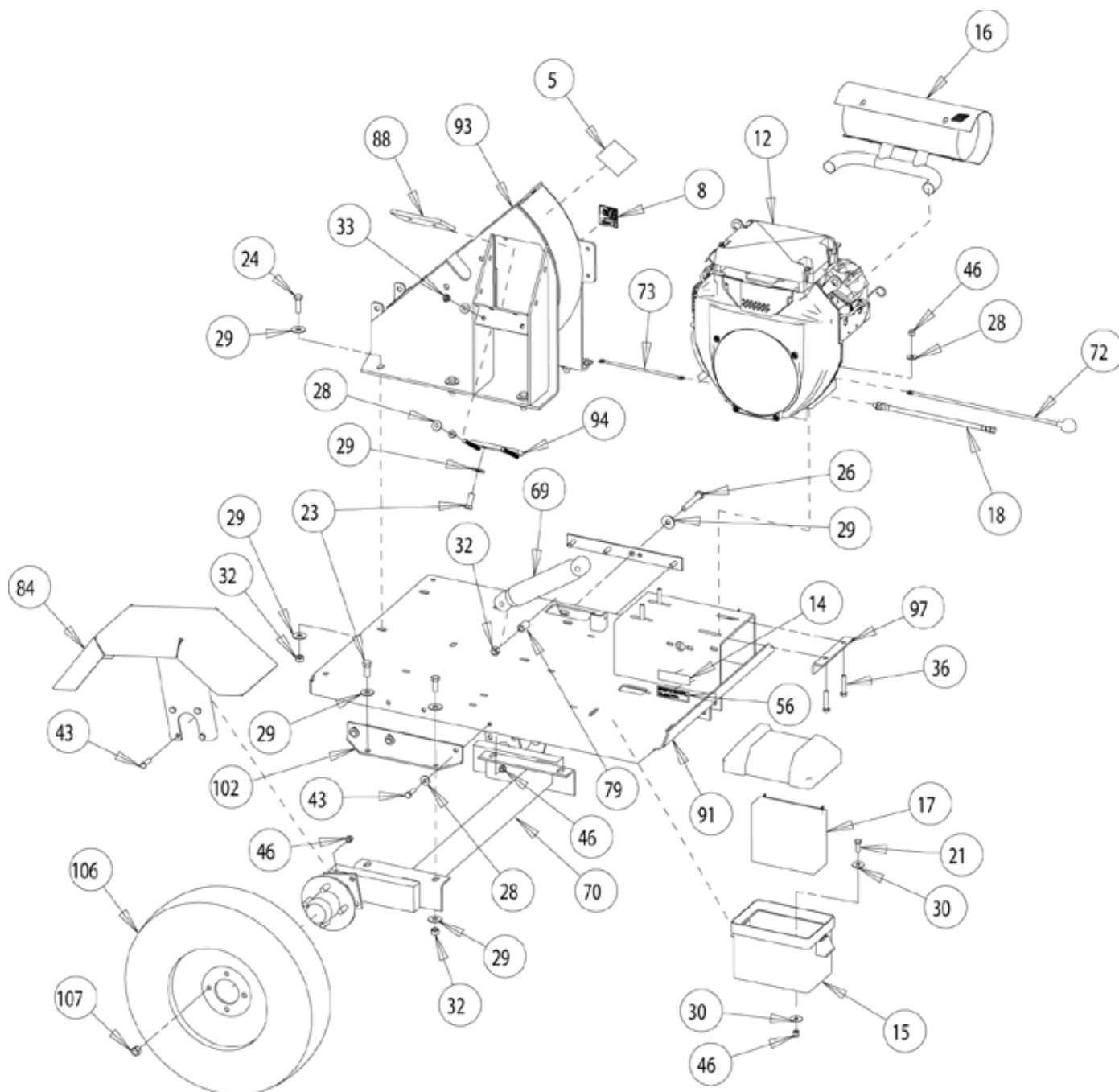
DISK ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
2	12117	BEARING, 1-1/2" 2-BOLT FLANGE	2
4	12130	DECAL, MODEL 73413	1
9	12441	BUSHING, 1-1/2" SK	1
13	15015	BOLT, 1/2" X 2" HEX HD	10
16	15031	WASHER, 3/8 FLAT	20
18	15043	NUT, 1/2" HEX	2
19	15049	NUT, 1/2" CENTERLOCK GRB ZP	27
26	15364	BOLT, 3/8" NC X 1-1/4" HEX HD	7
27	15378	BOLT, 3/8" X 1-1/4" CRG	1
29	15388	NUT, 3/8" NYLOCK	15
35	15440	KEY, 3/8" X 2.0 SQ	1
36	15481	STUD, 1/2" X 3" THREADED	2
43	16323	SHEAVE, 2B9.4 SK	1
46	16460	CAP, LARGE SHAFT	1
48	16558	DECAL, FLYING DEBRIS (73413)	1
	12173	DECAL, DISCHARGE (73413S)	1
54	17836	DECAL, BEARCAT PICTURE	1
55	17846	DECAL, CAUTION (73413)	1
	12172	DECAL, PROTECTION (73413S)	1
56	17913	DECAL, SMALL BEARCAT	1
57	41158	TUBE, SPACER	2
62	70739	BLADE, TWO EDGE CHIPPER	4
66	72411	BIG CHIPPER PADDLE	4
68	72433-12	BEARING MOUNT PLATE	2
71	72444	CHIPPER DISK WELDMENT	1
74	72447-35	CHIPPER TOP WELDMENT	1
90	14184-00	DECAL, 101 DB	1



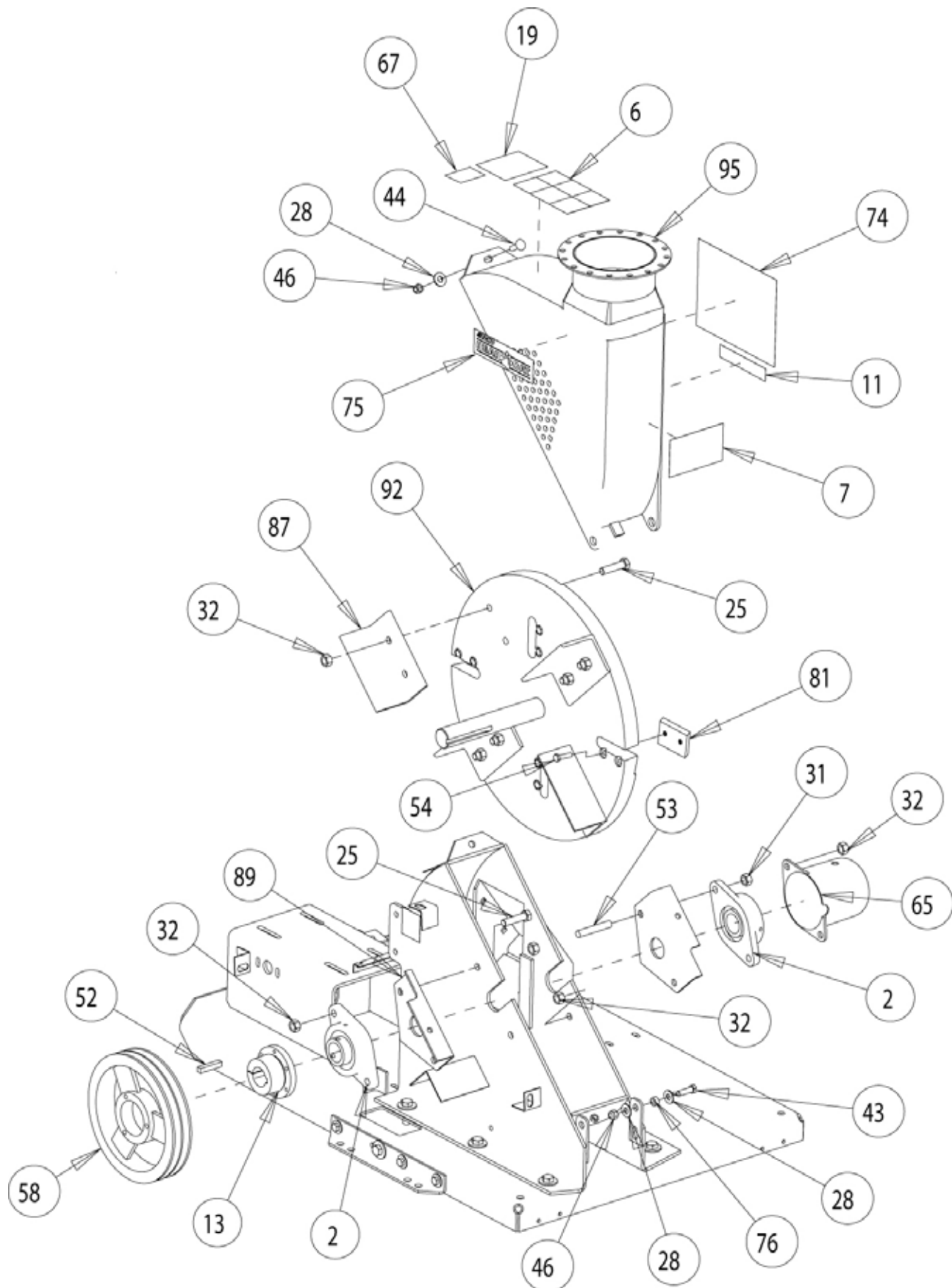
ENGINE ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	12014	SWITCH, ENGINE KILL	1
6	12145	SHEAVE, 2B4.8 SDS	1
7	12188	WIRE, ENGINE KILL	1
16	15031	WASHER, 3/8 FLAT	20
23	15219	BOLT, 5/16" X 1" HEX HD	7
24	15250	WASHER, 5/16" FLAT	13
28	15381	BOLT, 5/16"-24 X 3/4" GR5 HHCS ZP	4
30	15402	NUT, 5/16" X 18 TINNERMAN U-TYPE	3
32	15418	KEY, 1/4" X 1-1/2" SQ	1
39	15755-00	BOLT, 5/16"-24 X 1" HHCS GR5 ZP	2
44	16347	BELT, 2B70	1
45	16458	BUSHING, 1.0 SDS	1
75	72455-12	CHIPPER BELT GUARD WELDMENT	1
76	72457-12	BELT GUIDE WELDMENT	2
77	72490-12	ENGINE GUARD STRIP	1
82	71708	COVER, HARNESS	1



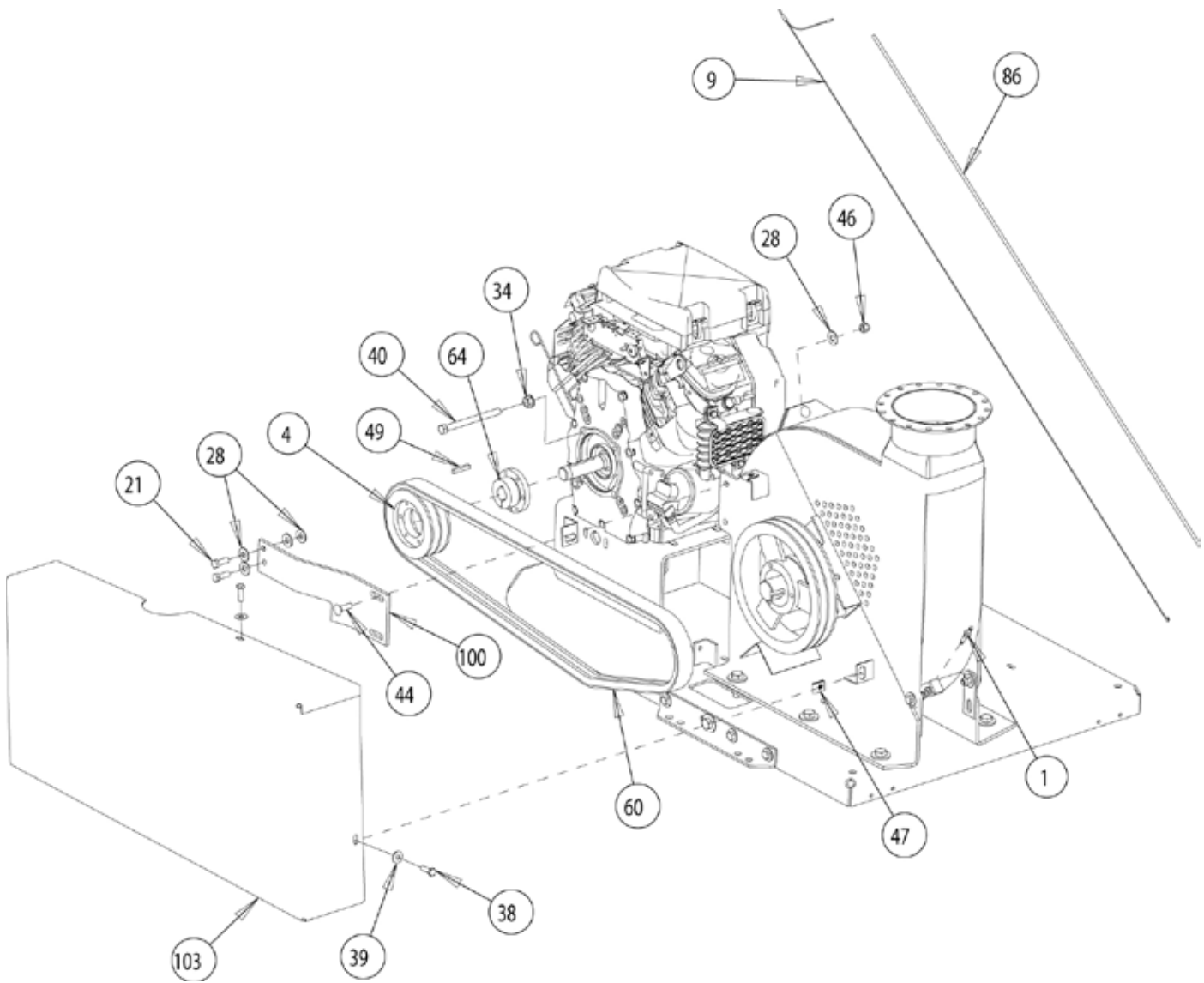
PULLEY ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
5	12132	BEARING, 3/4" FLANGE	2
8	12275	FITTING, 1/4" SELF-TAP GREASE	1
10	15008	BOLT, 3/8" NC X 2 GR5 HEX HD	5
14	15016	BOLT, 1/2" X 3-1/2" HEX HD	2
15	15017	BOLT, 1/2" X 4-1/2" HEX HD	1
16	15031	WASHER, 3/8 FLAT	20
17	15034	WASHER, 1/2 FLAT	24
19	15049	NUT, 1/2" CENTERLOCK GRB ZP	27
20	15051	NUT, 3/8" SERR FLANGE	5
23	15219	BOLT, 5/16" X 1" HEX HD	7
24	15250	WASHER, 5/16" FLAT	13
25	15356	NUT, 5/16" NYLOCK	6
29	15388	NUT, 3/8" NYLOCK	15
31	15403	BOLT, 5/16" X 1-3/4" HEX	1
33	15429	BOLT, 5/16" X 2" INCH EYE	1
34	15437	BOLT, 3/8" NC X 2-3/4" HEX HD	1
38	15584	WASHER, FLAT 254 X 400 X 048	1
42	16230	PULLEY, 5.0 X 2.5 IN. IDLER	1
47	16502	SPRING, LOCK COMPRESSION	1
49	16782	CLAMP, 3/16" CABLE	2
53	17520	SPRING, LOCK COMPRESSION	1
58	70290	SPACER, 0.75 X .905	2
59	70367	SHORT SPACER (LARGE C/S)	1
61	70694	SPACER, .63 X 1.63	1
63	71271	CHIPPER CLUTCH PEDAL WELDMENT	1
64	71632	CABLE, 3/16" X 18	1
69	72435-12	IDLER ARM WELDMENT	1
78	72491-12	PULLEY GUARD STRIP	1
80	72517	IDLER SPRING COVER	1
81	72787-12	CLUTCH ARM WELDMENT	1



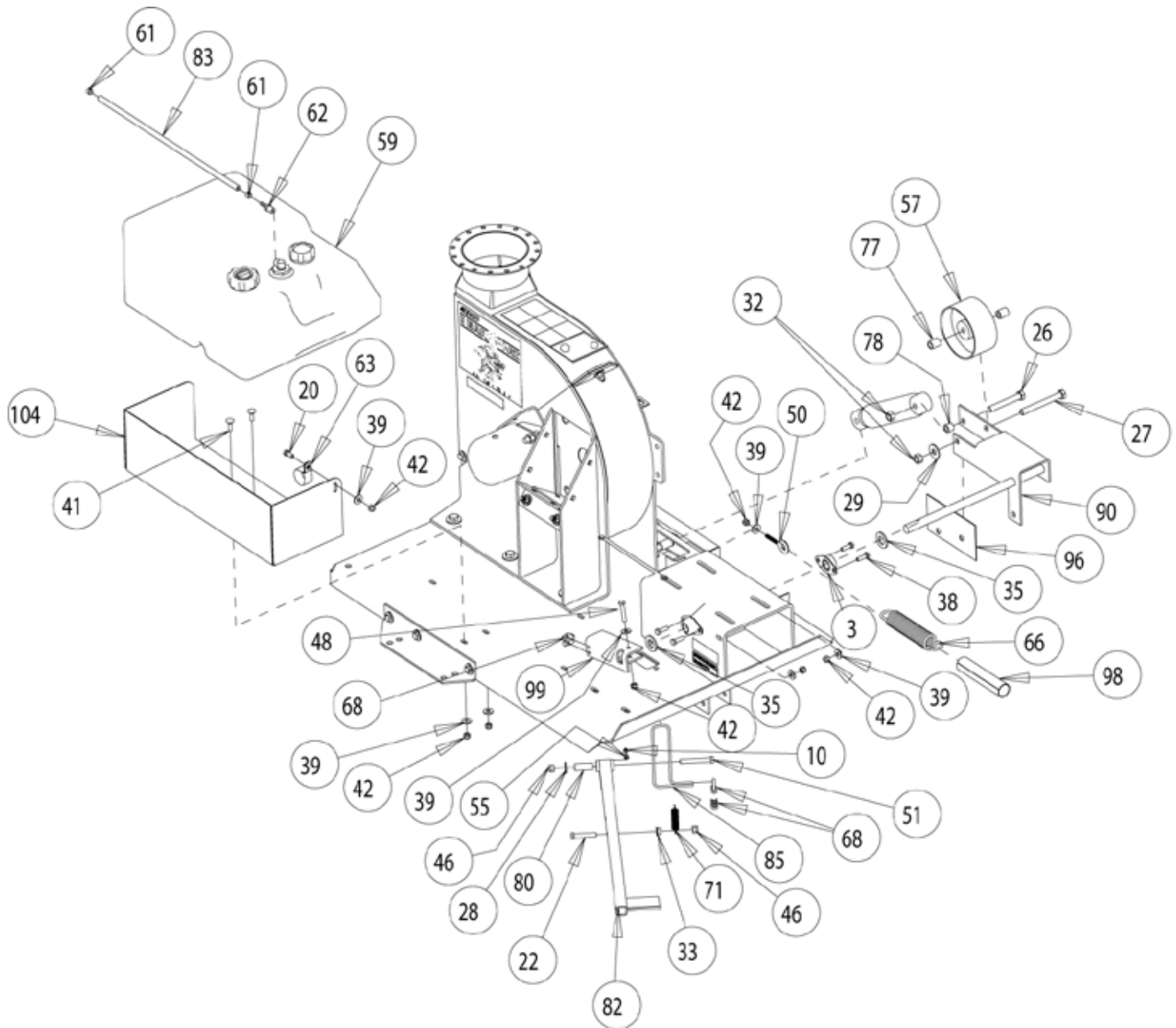
BASE ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
5	16085	DECAL, ACCESS COVER (73420)	1
	12169	DECAL, KNIFE ACCESS (73420F, 73420S)	1
8	17423	DECAL, SHIELD DANGER (73420)	1
	12174	DECAL, SHIELD DANGER (73420F, 73420S)	1
12	12360	ENGINE, 20 HP HONDA	1
14	12535	DECAL, 73420S INFO	1
15	12839	BOX, SMALL BATTERY (73420S AND 73420F ONLY)	1
16	13858-00	KIT, 24 HP HONDA MUFFLER	1
17	14248-00	BATTERY, 250 CCA JEL (73420S AND 73420F ONLY)	1
18	14373-00	CRANKCASE DRAIN HOSE ASSY	1
21	15006	BOLT, 3/8" NC X 1" GR5 CAPSCREW ZP	3
23	15013	BOLT, 1/2" X 1-1/4" HEX HD	6
24	15014	BOLT, 1/2" X 1-1/2" HEX HD	6
26	15016	BOLT, 1/2" X 3-1/2" HEX HD	2
28	15031	WASHER, 3/8 FLAT	24
29	15034	WASHER, 1/2 FLAT	24
30	15041	WASHER, 3/8" FENDER (N/A ON 73420F)	2
32	15049	NUT, 1/2" CENTERLOCK GRB ZP	27
33	15051	NUT, 3/8" SERR FLANGE	5
36	15116	BOLT, 3/8" NC X 2-1/2" HEX HD	4
43	15364	BOLT, 3/8" NC X 1-1/4" HEX HD	15
46	15388	NUT, 3/8" NYLOCK	24
56	16155	DECAL, SERIAL NUMBER	1
69	16786	ABSORBER, IDLER SHOCK	1
70	16917	AXLE, TORSION SUSPENSION (1000 LB) (N/A ON 73420F)	1
72	17888	CABLE, POSITIVE BATTERY	1
73	17889	NEGATIVE, POSITIVE BATTERY	1
79	70369	SPACER, .75 X 1.18	1
84	71480	CHIPPER FENDER WELDMENT (N/A ON 73420F)	2
88	72420	4 INCH CHIPPER ANVIL	1
91	72440-12	CHIPPER TRAILER WELDMENT	1
93	72445-35	CHIPPER BOTTOM WELDMENT	1
94	72446-12	BLOCK ADJUSTOR WELDMENT	1
	72417	STRIP, ADJUSTOR BLOCK	1
	72424	STUD, ADJUSTOR BLOCK	2
97	72492-12	ENGINE ADJUSTMENT ANGLE	2
102	72793-12	RH AXLE MOUNT ANGLE	1
106	16548	5.30-12 TIRE AND SPOKE RIM ASSY (N/A ON 73420F)	2
107	15527	NUT, 1/2 - 20 WHEEL (N/A ON 73420F)	8



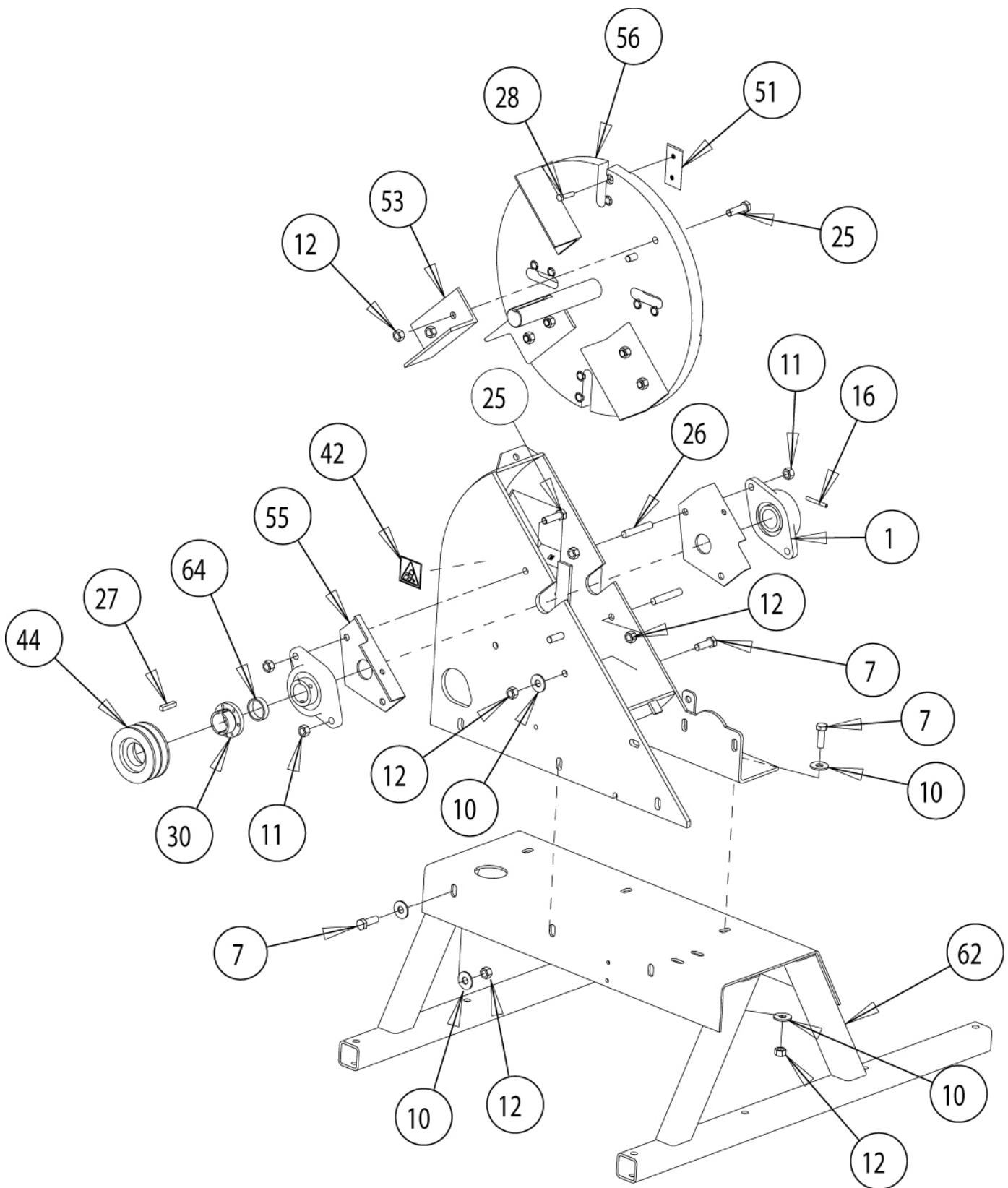
DISK ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
2	12117	BEARING, 1-1/2" 2-BOLT FLANGE	2
6	17846	DECAL, OPERATING INSTRUCTIONS (73420)	1
	12172	DECAL, PROTECTION (73420F, 73420S)	1
7	16558	DECAL, DISCHARGE (73420)	1
	12173	DECAL, DISCHARGE (73420F, 73420S)	1
11	12359	DECAL, MODEL 73420S	1
13	12441	BUSHING, 1-1/2" SK	1
19	14384-00	DECAL, 103 DB	1
25	15015	BOLT, 1/2" X 2" HEX HD	10
28	15031	WASHER, 3/8 FLAT	24
31	15043	NUT, 1/2" HEX	2
32	15049	NUT, 1/2" CENTERLOCK GRB ZP	27
43	15364	BOLT, 3/8" NC X 1-1/4" HEX HD	15
44	15378	BOLT, 3/8" X 1-1/4" CRG	3
46	15388	NUT, 3/8" NYLOCK	24
52	15440	KEY, 3/8" X 2.0 SQ	1
53	15481	STUD, 1/2" X 3" THREADED	2
54	15565	BOLT, 5/16" X 1-1/4" GR 8	8
58	16323	SHEAVE, 2B9.4 SK	1
65	16460	CAP, LARGE SHAFT	1
67	16753	DECAL, CE	1
74	17836	DECAL, BEAR CAT PICTURE (73420)	1
	18665-00	DECAL, BEAR CAT PICTURE (73420F, 73420S)	1
75	17913	DECAL, SMALL BEAR CAT (73420)	1
	18666-00	DECAL, SMALL BEAR CAT (73420F, 73420S)	1
76	41158	TUBE, SPACER	2
81	70739	BLADE, TWO EDGE CHIPPER	4
86	71708	COVER, HARNESS	1
87	72411	BIG CHIPPER PADDLE	4
89	72433-12	BEARING MOUNT PLATE	2
92	72444	CHIPPER DISK WELDMENT	1
95	72447-35	CHIPPER TOP WELDMENT	1



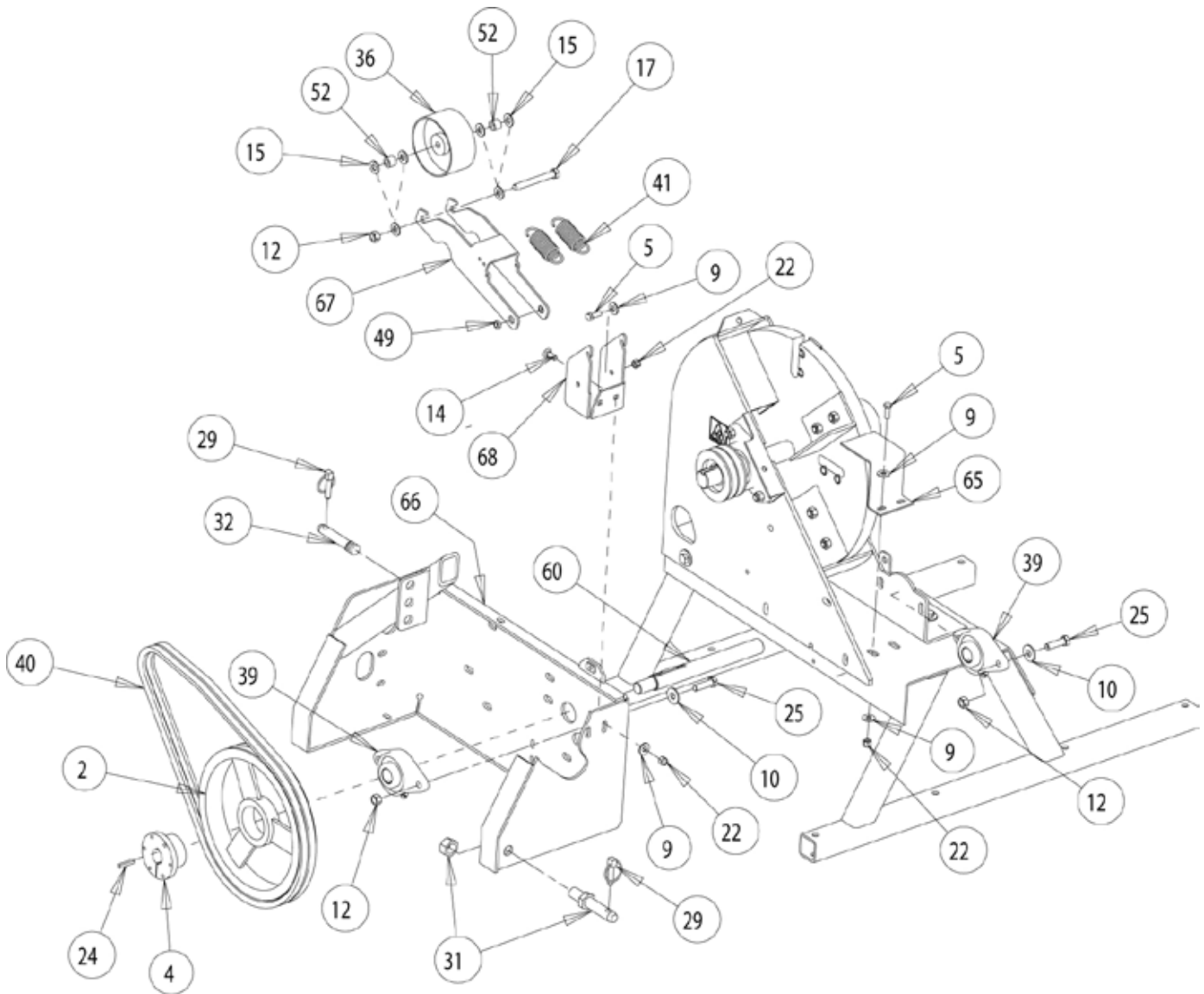
ENGINE ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	12014	SWITCH, ENGINE KILL	1
4	12145	SHEAVE, 2B4.8 SDS	1
9	12188	WIRE, ENGINE KILL	1
21	15006	BOLT, 3/8" NC X 1" GR5 CAPSCREW ZP	3
28	15031	WASHER, 3/8 FLAT	24
34	15052	NUT, 7/16" SERR FLANGE	1
38	15219	BOLT, 5/16" X 1" HEX HD	7
39	15250	WASHER, 5/16" FLAT	13
40	15273	BOLT, 7/16" X 5" HEX HD	1
44	15378	BOLT, 3/8" X 1-1/4" CRG	3
46	15388	NUT, 3/8" NYLOCK	24
47	15402	NUT, 5/16" X 18 TINNERMAN U-TYPE	3
49	15418	KEY, 1/4" X 1-1/2" SQ	1
60	16347	BELT, 2B70	1
64	16458	BUSHING, 1.0 SDS	1
86	71708	COVER, HARNESS	1
100	72789-12	ENGINE TIE STRIP	1
103	72796-12	BELT GUARD WELDMENT	1



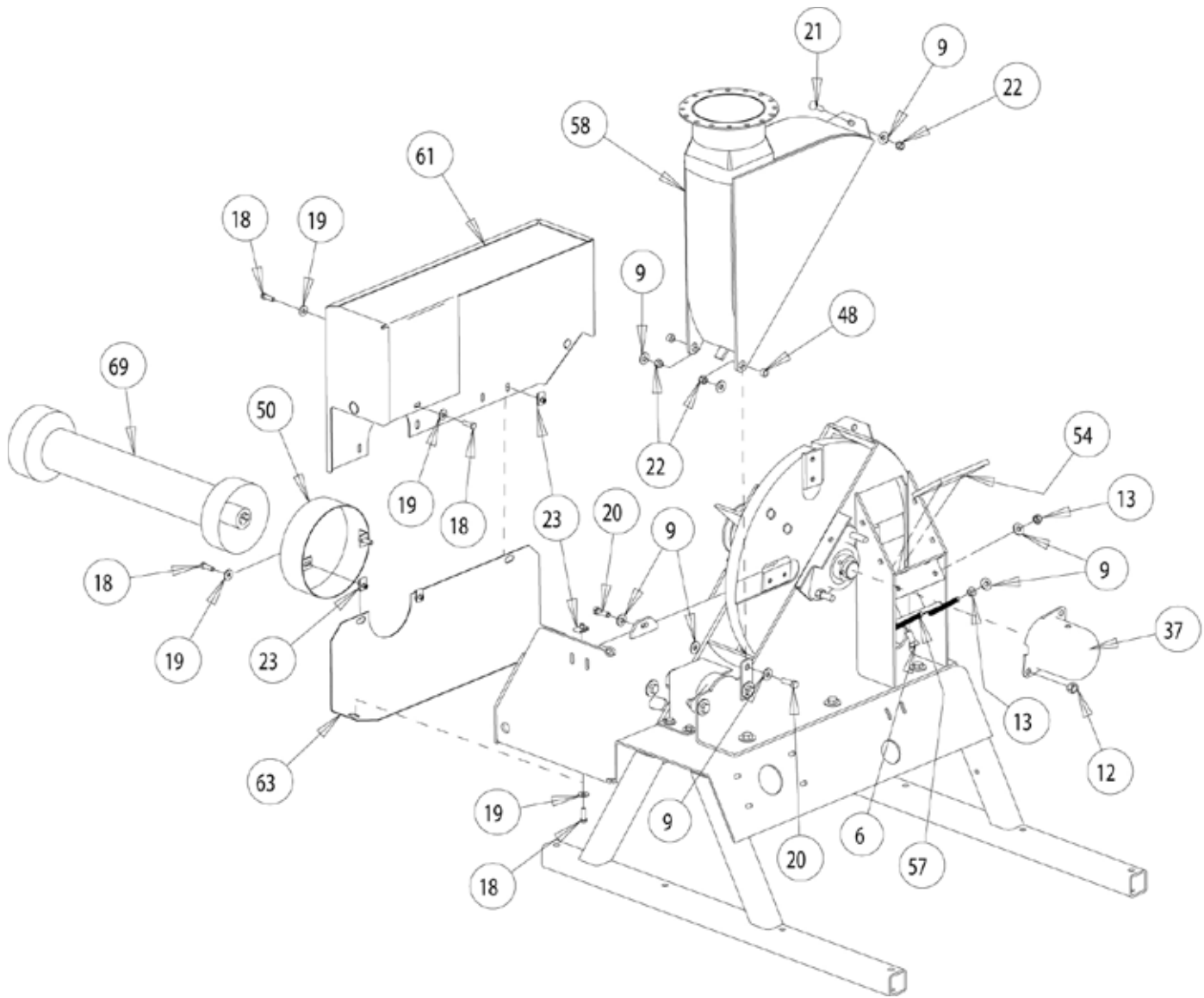
PULLEY ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
3	12132	BEARING, 3/4" FLANGE	2
10	12275	FITTING, 1/4" SELF-TAP GREASE	1
20	15003	BOLT, 5/16" X 3/4" HEX HD	1
22	15008	BOLT, 3/8" NC X 2 GR5 HEX HD	1
26	15016	BOLT, 1/2" X 3-1/2" HEX HD	2
27	15017	BOLT, 1/2" X 4-1/2" HEX HD	1
28	15031	WASHER, 3/8 FLAT	24
29	15034	WASHER, 1/2 FLAT	24
32	15049	NUT, 1/2" CENTERLOCK GRB ZP	27
33	15051	NUT, 3/8" SERR FLANGE	5
35	15098	WASHER, 3/4" SAE FLAT	2
38	15219	BOLT, 5/16" X 1" HEX HD	7
39	15250	WASHER, 5/16" FLAT	13
41	15301	BOLT, 5/16" X 1" CRG	2
42	15356	NUT, 5/16" NYLOCK	9
46	15388	NUT, 3/8" NYLOCK	24
48	15403	BOLT, 5/16" X 1-3/4" HEX	1
50	15429	BOLT, 5/16" X 2" INCH EYE	1
51	15437	BOLT, 3/8" NC X 2-3/4" HEX HD	1
55	15584	WASHER, FLAT 254 X 400 X 048	1
57	16230	PULLEY, 5.0 X 2.5 IN. IDLER	1
59	16328	TANK, 6.5 GALLON FUEL	1
61	16378	CLAMP, 15/32" SPRING	2
62	16379	FITTING, 1/4" MNPT X 1/4" HOSE	1
63	16383	CLAMP, 1-9/16" COATED METAL	1
66	16502	SPRING, BLOWER DRIVE	1
68	16782	CLAMP, 3/16" CABLE	2
71	17520	SPRING, LT EXT .555 O.D. X 2.75 LG	1
77	70290	SPACER, 0.75 X .905	2
78	70367	SHORT SPACER (LARGE C/S)	1
80	70694	SPACER, .63 X 1.63	1
82	71271	CHIPPER CLUTCH PEDAL WELDMENT	1
83	71379	FUEL LINE HOSE	1
85	71632	CABLE, 3/16" X 18	1
90	72435-12	IDLER ARM WELDMENT	1
96	72491-12	PULLEY GUARD STRIP	1
98	72517	IDLER SPRING COVER	1
99	72787-12	CLUTCH ARM WELDMENT	1
104	75029-12	FUEL TANK TRAY	1



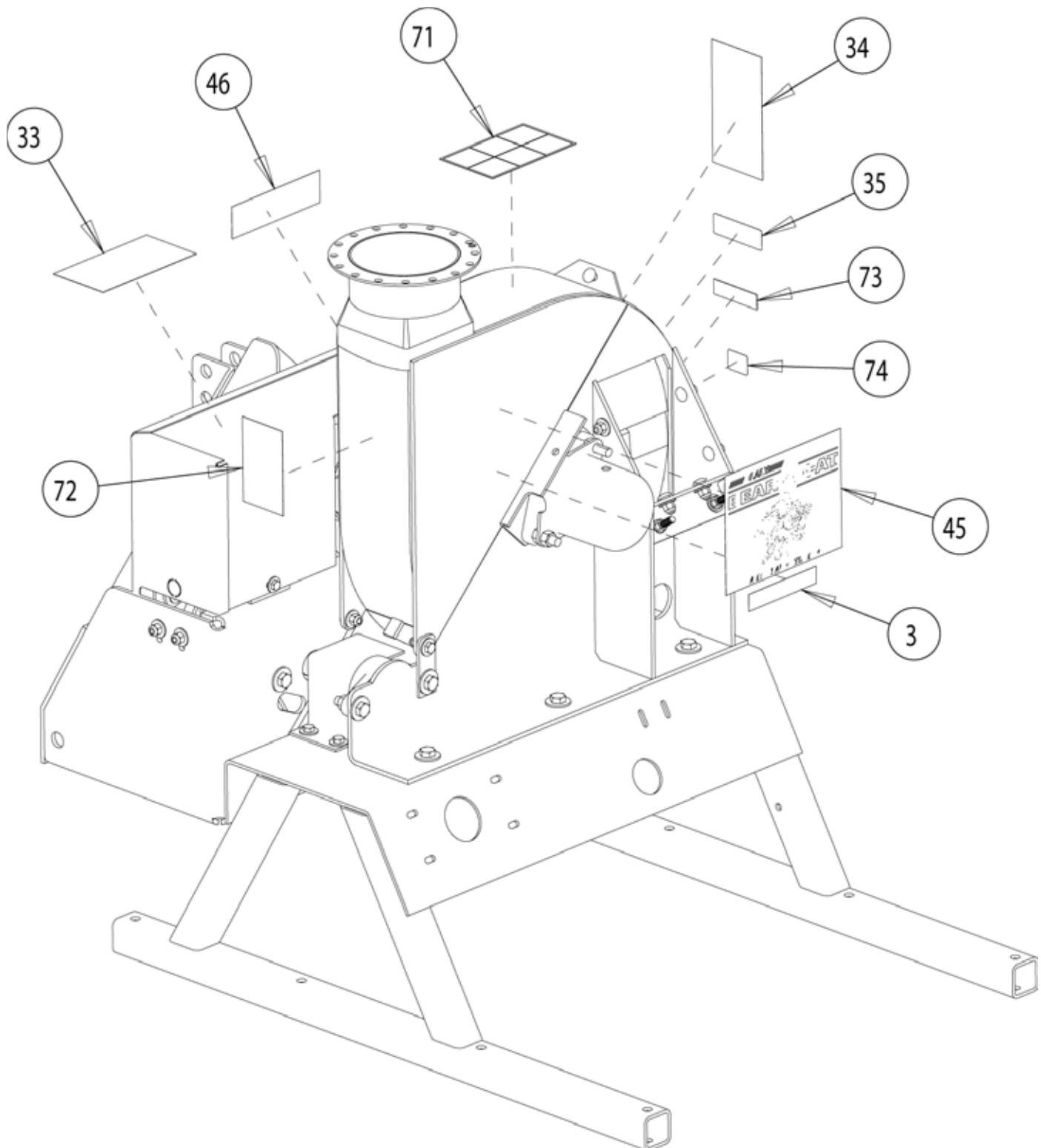
BASE ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	12117	BEARING, 1-1/2" 2-BOLT FLANGE	2
7	15014	BOLT, 1/2" X 1-1/2" HEX HD	7
10	15034	WASHER, 1/2 FLAT	17
11	15043	NUT, 1/2" HEX	2
12	15049	NUT, 1/2" CENTERLOCK GRB ZP	26
16	15137	PIN, 1/4" X 2" SPRING	1
25	15478	BOLT, 1/2" X 1-3/4" HEX HD	13
26	15481	STUD, 1/2" X 3" THREADED	2
27	15498	KEY, 5/16" X 1-3/4" SQ	1
28	15565	BOLT, 5/16" X 1-1/4" GR 8	8
30	16016	BUSHING, 1-1/2" SH	1
42	17423	DECAL, SHIELD DANGER (73454)	1
	12174	DECAL, SHIELD DANGER (73454S)	1
44	17818	SHEAVE, 3V2654	1
51	70739	BLADE, TWO EDGE CHIPPER	4
53	72411	BIG CHIPPER PADDLE	4
55	72433-12	BEARING MOUNT PLATE	2
56	72444	CHIPPER DISK WELDMENT	1
62	72478-12	PTO STAND WELDMENT	1
64	72499-12	SPACER, 1-3/4" X 9/16" X .120	1



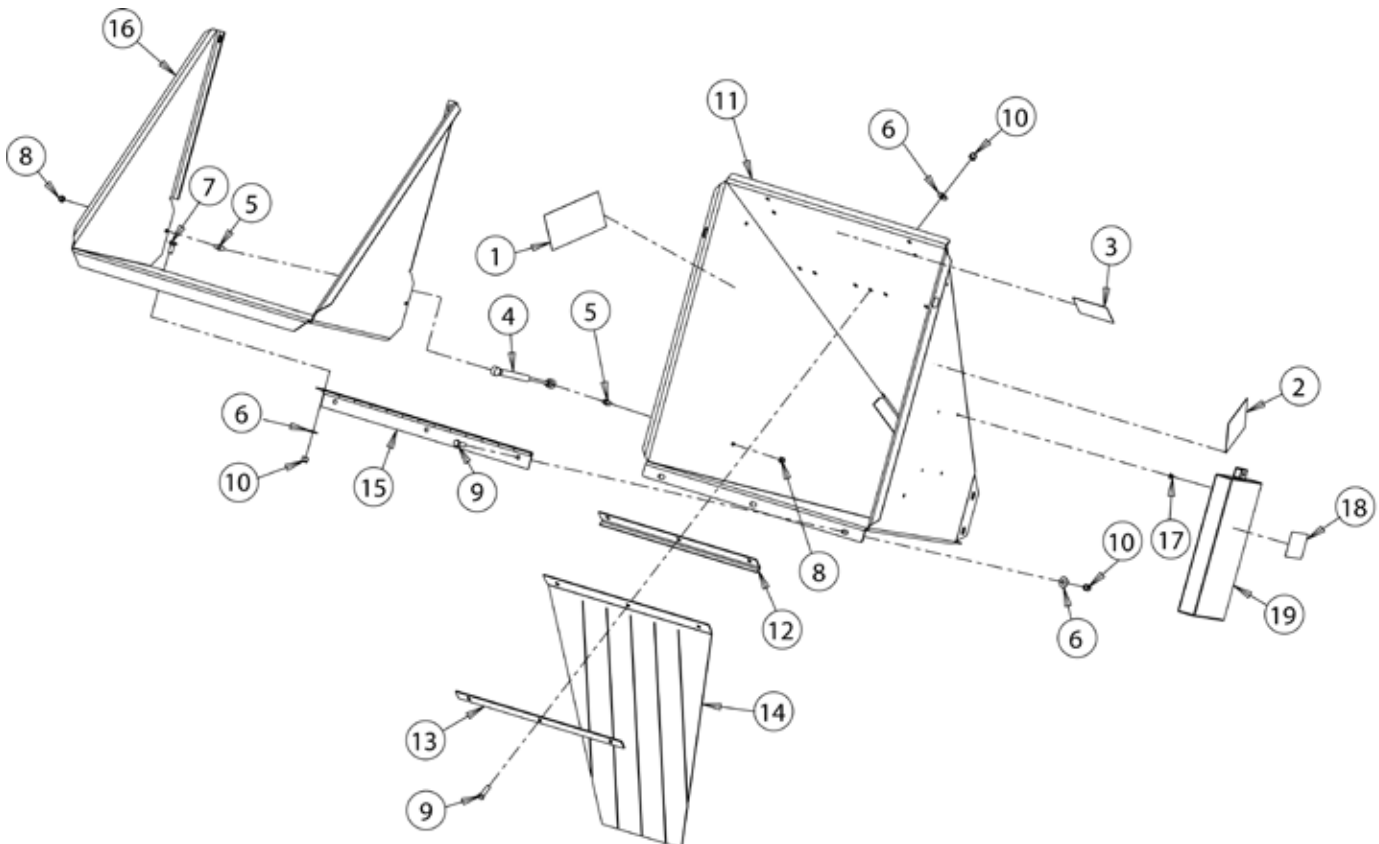
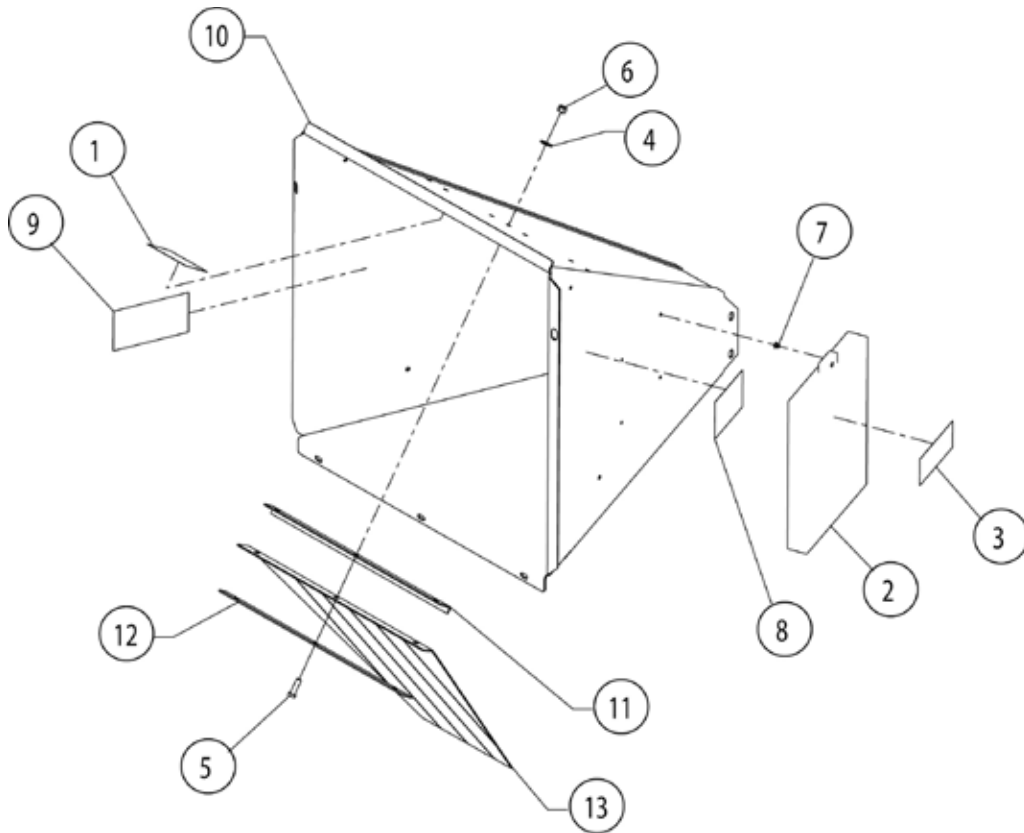
PULLEY ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
2	12126	SHEAVE, 2B12.4 SK	1
4	12437	BUSHING, 1-1/4" SK	1
5	15006	BOLT, 3/8" NC X 1" GR5 CAPSCREW ZP	4
9	15031	WASHER, 3/8 FLAT	18
10	15034	WASHER, 1/2 FLAT	17
12	15049	NUT, 1/2" CENTERLOCK GRB ZP	26
14	15057	BOLT, 3/8" X 1" CRG	2
15	15097	WASHER, 1/2" SAE FLAT	6
17	15174	BOLT, 1/2" X 4" HEX HD	1
22	15388	NUT, 3/8" NYLOCK	9
24	15418	KEY, 1/4" X 1-1/2" SQ	1
25	15478	BOLT, 1/2" X 1-3/4" HEX HD	13
29	16015	PIN, 7/16" X 1-5/8" LYNCH	3
31	16019	PIN, LIFT	2
32	16020	PIN, TOP LINK	1
36	16230	PULLEY, 5.0 X 2.5 IN. IDLER	1
39	16682	BEARING, 1-1/4" 2-BOLT FLANGE	2
40	17055	BELT, BX 56	2
41	17415	SPRING, LOCK COMPRESSION	2
49	69239	SPACER, IDLER PIVOT	2
52	70968	SPACER, 0.81 X 0.62	2
60	72472	PTO CHIPPER JACKSHAFT	1
65	72518-12	JACKSHAFT COVER	1
66	75034-35	CHIPPER HITCH WELDMENT	1
67	75052-12	ARM, INSIDE IDLER	1
68	75053-12	INSIDE IDLER MOUNTING BRACKET	1



SHIELDS ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
6	15012	BOLT, 1/2" X 1" HEX HD	2
9	15031	WASHER, 3/8 FLAT	18
12	15049	NUT, 1/2" CENTERLOCK GRB ZP	26
13	15051	NUT, 3/8" SERR FLANGE	4
18	15219	BOLT, 5/16" X 1" HEX HD	7
19	15250	WASHER, 5/16" FLAT	7
20	15364	BOLT, 3/8" NC X 1-1/4" HEX HD	2
21	15378	BOLT, 3/8" X 1-1/4" CRG	1
22	15388	NUT, 3/8" NYLOCK	9
23	15402	NUT, 5/16" X 18 TINNERMAN U-TYPE	6
37	16460	CAP, LARGE SHAFT	1
48	41158	TUBE, SPACER	2
50	70442	JOINT SHIELD WELDMENT	1
54	72420	4 INCH CHIPPER ANVIL	1
57	72446-12	BLOCK ADJUSTOR WELDMENT	1
	72417	STRIP, ADJUSTOR BLOCK	1
	72424	STUD, ADJUSTOR BLOCK	2
58	72447-35	CHIPPER TOP WELDMENT	1
61	72475-12	BELT GUARD WELDMENT	1
63	72481-12	BELT, LOWER GUARD WELDMENT	1
69	16961	DRIVESHAFT, 540 C/S	1
	12225	YOKE, 1-3/8" 6 SPLINE	1
	12226	KIT, CROSS AND BEARING	2
	15573	PIN, M10 X 65 SPRING	2
	12227	YOKE, INBOARD 0V	1
	12228	PROFILE, INNER 0V	1
	12229	PROFILE, OUTER 1	1
	12230	YOKE, INBOARD 1	1
	12231	YOKE	1
	12232	CONE, 4 RIB SAFETY	2
	12233	SHIELD, OUTER TUBE OVL	1
	12234	SHIELD, INNER TUBE RND	1
	12208	RING, SC15 BEARING	2
	12209	CHAIN, SAFETY	2
	15574	SCREW, WS365305	2
	12210	DECAL, OUT	1
	12211	DECAL, IN	1
	12235	KIT, ASGE COL	1



DECALS			
ITEM	PART NUMBER	DESCRIPTION	QTY
3	12137	DECAL, MODEL 73454	1
33	16033	DECAL, 540 PTO DANGER (73454)	1
	12168	DECAL, 540 PTO DANGER (73454S)	1
34	16085	DECAL, KNIFE ACCESS (73454)	1
	12169	DECAL, KNIFE ACCESS (73454S)	1
35	16155	DECAL, SERIAL NUMBER	1
45	17836	DECAL, BEARCAT PICTURE (73454)	1
	18665-00	DECAL, BEARCAT PICTURE (73454S)	1
46	17913	DECAL, SMALL BEARCAT PICTURE (73454)	1
	18666-00	DECAL, SMALL BEARCAT PICTURE (73454S)	1
71	18443-00	DECAL, OPERATING INSTRUCTIONS (73454)	1
	12172	DECAL, PROTECTION (73454S)	1
72	16558	DECAL, DISCHARGE (73454)	1
	12173	DECAL, DISCHARGE (73454S)	1
73	12193	DECAL, 73454S INFO	1
74	16753	DECAL, CE	1



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73413, 73420, 73454

CHUTE ASSEMBLY

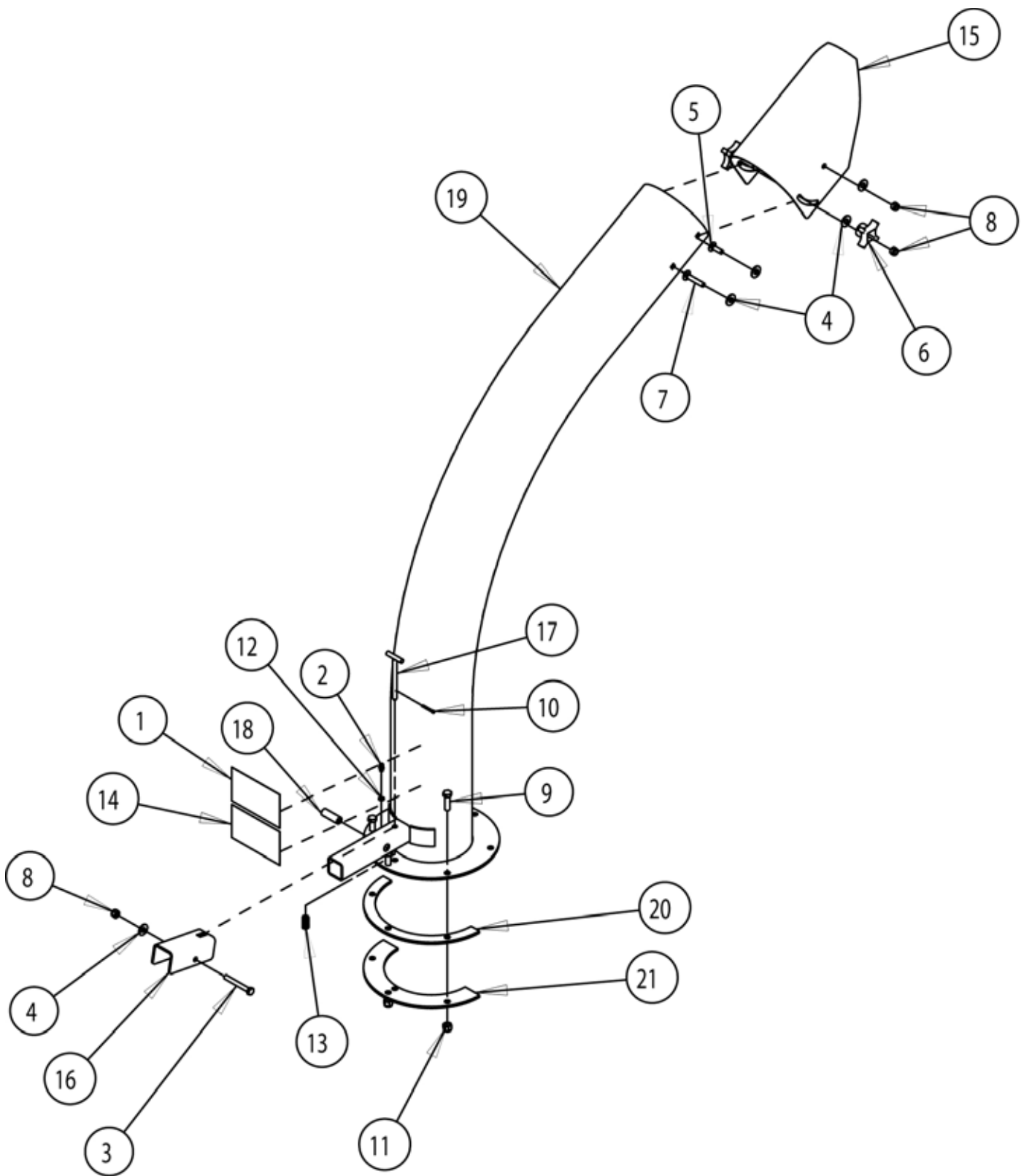
72482, CHUTE ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	12010	DECAL, CHECK BOLTS	1
2	12614	CONTAINER, INSTRUCTION MANUAL	1
3	13711-00	DECAL, MANUAL BOX	1
4	15031	WASHER, 3/8 FLAT	3
5	15364	BOLT, 3/8 X 1-1/4 HEX HD	3
6	15388	NUT, 3/8" NYLOCK	3
7	15497	RIVET, 1/4 X 1/2 DOME HD. BLIND SS	4
8	16551	DECAL, CHIPPER CLUTCH	1
9	17837	DECAL, DANGER	2
10	72451-35	WELDMENT, CHIPPER CHUTE	1
11	72460-12	ANGLE, FLAP ANCHOR	1
12	72461-12	STRIP, FLAP RETAINER	1
13	72462	FLAP, CHIPPER CHUTE	1

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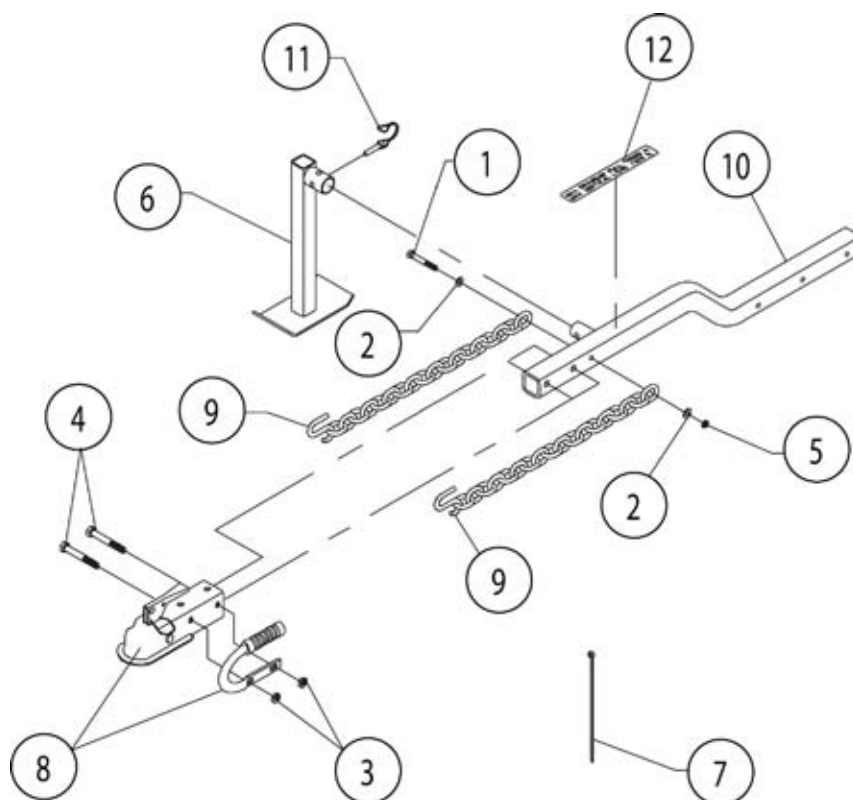
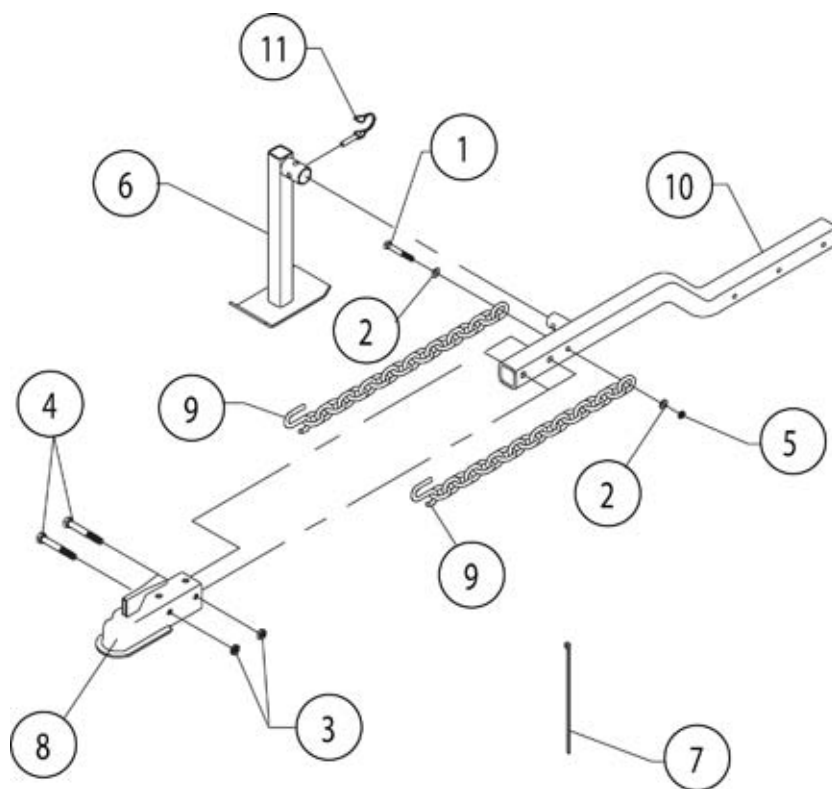
73420F, 73413S, 73420S, 73454S

CHUTE ASSEMBLY

72603, CHUTE ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	12175	DECAL, INLET AND DISCHARGE	2
2	12183	DECAL, CLUTCH ENGAGEMENT	1
3	12250	DECAL, CHECK BOLTS	1
4	12780	SPRING, GAS 60 PSI	1
5	12781	STUD, BALL	2
6	15031	WASHER, 3/8 FLAT	9
7	15057	BOLT, 3/8 X 1 CRG	4
8	15356	NUT, 5/16 NYLOCK	2
9	15364	BOLT, 3/8 X 1-1/4 HEX HD	5
10	15388	NUT, 3/8" NYLOCK	9
11	72451-35	WELDMENT, CHIPPER CHUTE	1
12	72460-12	ANGLE, FLAP ANCHOR	1
13	72461-12	STRIP, FLAP RETAINER	1
14	72462	FLAP, CHIPPER CHUTE	1
15	72568-12	HINGE, EXTENSION TRAY	1
16	73130-12	WELDMENT, EURO 4 IN CHUTE TRAY	1
17	15497	RIVET, 1/4 X 1/2 DOME HD. BLIND SS	4
18	13711-00	DECAL, MANUAL BOX	1
19	12614	CONTAINER, INSTRUCTION MANUAL	1



72483, DISCHARGE CHUTE			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	12173	DECAL, DISCHARGE	1
2	12275	FITTING, 1/4" SELF-TAP GREASE	1
3	15154	BOLT, 5/16" X 2-1/2" HEX	1
4	15250	WASHER, 5/16" FLAT	9
5	15301	BOLT, 5/16" X 1 CRG	2
6	15321	KNOB, 5/16" SPOUT	2
7	15350	BOLT, 5/16" X 1-3/4" CRG	2
8	15356	NUT, 5/16" NYLOCK	5
9	15364	BOLT, 3/8" X 1-1/4" HEX HD	3
10	15375	PIN, 1/8" X 1" COTTER	1
11	15388	NUT, 3/8" NE NYLOCK ZP	3
12	15584	WASHER, FLAT 254 X 400 X 048	1
13	16556	LOCK COMPRESSION SPRING	1
14	16558	DECAL, FLYING DEBRIS	1
15	71081	DISCHARGE DEFLECTOR	1
16	71252	DISCHARGE LOCK LEVER	1
17	71253	DIS. LOCK PIN WELDMENT	1
18	71256	DISCHARGE LOCK PIVOT TUBE	1
19	72449-12	6 INCH DISCHARGE TUBE	1
20	72452-12	SPACER, DISCHARGE PIVOT	1
21	72453-12	RING, DISCHARGE CLAMP	1



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73413, 73420, 73454

TRAILER HITCH

71874, HITCH ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	15010	BOLT, 3/8 X 3-1/2 HEX	1
2	15031	WASHER, 3/8 FLAT	2
3	15049	NUT, 1/2 CENTERLOCK	2
4	15086	BOLT, 1/2 X 3 HEX HD	2
5	15388	NUT, 3/8 NYLOCK	1
6	70936	WELDMENT, HITCH JACK	1
7	16865	WRAP, HEAVY TIE	1
8	17988	COUPLER, 2 INCH BALL	1
9	17994	CHAIN, HITCH SAFETY	2
10	70894	WELDMENT, HITCH POLE	1
11	17879	PIN, 3/8 SNAP	1

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73413S, 73420S, 73454S

TRAILER HITCH

71875, HITCH ASSEMBLY			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	15010	BOLT, 3/8 X 3-1/2 HEX	1
2	15031	WASHER, 3/8 FLAT	2
3	15049	NUT, 1/2 CENTERLOCK	2
4	15086	BOLT, 1/2 X 3 HEX HD	2
5	15388	NUT, 3/8 NYLOCK	1
6	70936	WELDMENT, HITCH JACK	1
7	16865	WRAP, HEAVY TIE	1
8	12536	COUPLER, 50 MM BALL	1
9	17994	CHAIN, HITCH SAFETY	2
10	70894	WELDMENT, HITCH POLE	1
11	17879	PIN, 3/8 SNAP	1
12	16875	DECAL, HITCH LOAD	1

PART NUMBER	DESCRIPTION	73413	73413S	73420	73420F	73420S	73454	73454S
12127	MANUAL, 4 INCH CHIPPER OWNERS	1	1	1	1	1	1	1
12128	MANUAL 4 INCH CHIPPER PARTS	1	1	1	1	1	1	1
12129	KIT, 13 HP HONDA ENGINE OWNERS	1	1					
12362	KIT, 20 HP HONDA ENGINE OWNERS			1	1	1		
15010	BOLT, 3/8 X 3-1/2" HEXHD GR5 ZP	3	3	3	3	3		
15031	WASHER, 3/8" FLAT ZP	9	16	9	16	16	9	6
15057	BOLT, CARR 3/8 X 1" GR5 NC ZP	6	13	6	13	13	6	6
15219	BOLT, 5/16 X 1" GR5 HHCS NC ZP		2	2	2	2		
15250	WASHER, 5/16" FLAT ZP		4	6	4	4		
15256	SCREW, 3/8 X 3/4 SQ HD SET ZP						2	2
15356	NUT, 5/16" NE NYLOCK ZP		2	4	2	2		
15364	BOLT, 3/8 X 1-1/4" HEX HD GR5 ZP	11	11	3	3	3	3	3
15388	NUT, 3/8" NE NYLOCK ZP	20	27	12	19	19	9	9
15418	KEY, 1/4 SQ X 1-1/2 LG PLAIN						1	1
15419	BOLT, 5/16 X 8-3/4" L-TYPE BATTERY			2				
15527	NUT, 1/2 - 20 WHEEL	8	8	8	8	8		
16751	GLASSES, BEAR CAT CLEAR SAFETY	1	1	1	1	1	1	1
16752	EARPLUGS, ORANGE FOAM	1	1	1	1	1	1	1
16959	KIT, CE SHIELD							1
70144	ANGLE, BATTERY HOLD DOWN			1				
72452-12	SPACER, DISCHARGE PIVOT	1	1	1	1	1	1	1
72453-12	RING, DISCHARGE CLAMP	1	1	1	1	1	1	1
72790-12	COVER, BATTERY			1				

PART NUMBER	DESCRIPTION	73413	73413S	73420	73420S	73454	73454S
12010	DECAL, CHECK BOLTS	1		1		1	
12130	DECAL, MODEL 73413	1	1				
12137	DECAL, MODEL 73454					1	1
12168	DECAL, 540 PTO DANGER						1
12169	DECAL, KNIFE ACCESS		1		1		1
12172	DECAL, PROTECTION		1		1		1
12173	DECAL, DISCHARGE	1	2	1	2	1	2
12174	DECAL, SHIELD DANGER		1		1		1
12175	DECAL, INLET AND DISCHARGE		2		2		2
12183	DECAL, CLUTCH ENGAGEMENT		1		1		1
12192	DECAL, 73413S INFORMATION		1				
12193	DECAL, 73454S INFORMATION						1
12250	DECAL, CHECK BOLTS		1		1		1
12359	DECAL, MODEL 73420			1	1		
12535	DECAL, 73420S INFORMATION				1		
13711-00	DECAL, MANUAL BOX	1		1		1	
14184-00	DECAL, 101 DB		1				
14384-00	DECAL, 103 DB				1		
16033	DECAL, 540 PTO DANGER					1	
16085	DECAL, ACCESS COVER	1		1		1	
16155	DECAL, SERIAL NUMBER	1	1	1	1	1	1
16551	DECAL, CLUTCH ENGAGEMENT	1		1		1	
16558	DECAL, DISCHARGE	2	1	2	1	2	1
16753	DECAL, CE APPROVAL		1		1		1
16875	DECAL, HITCH LOAD		1		1		
17423	DECAL, SHIELD DANGER	1		1		1	
17836	DECAL, BEAR CAT PICTURE	1	1	1		1	
17837	DECAL, BLADE DANGER	2		2		2	
17846	DECAL, OPERATING INSTRUCTIONS	1		1			
17913	DECAL, SMALL BEAR CAT	1	1	1		1	
18443-00	DECAL, OPERATING INSTRUCTIONS					1	
18665-00	DECAL, BEAR CAT PICTURE				1		1
18666-00	DECAL, SMALL BEAR CAT				1		1

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