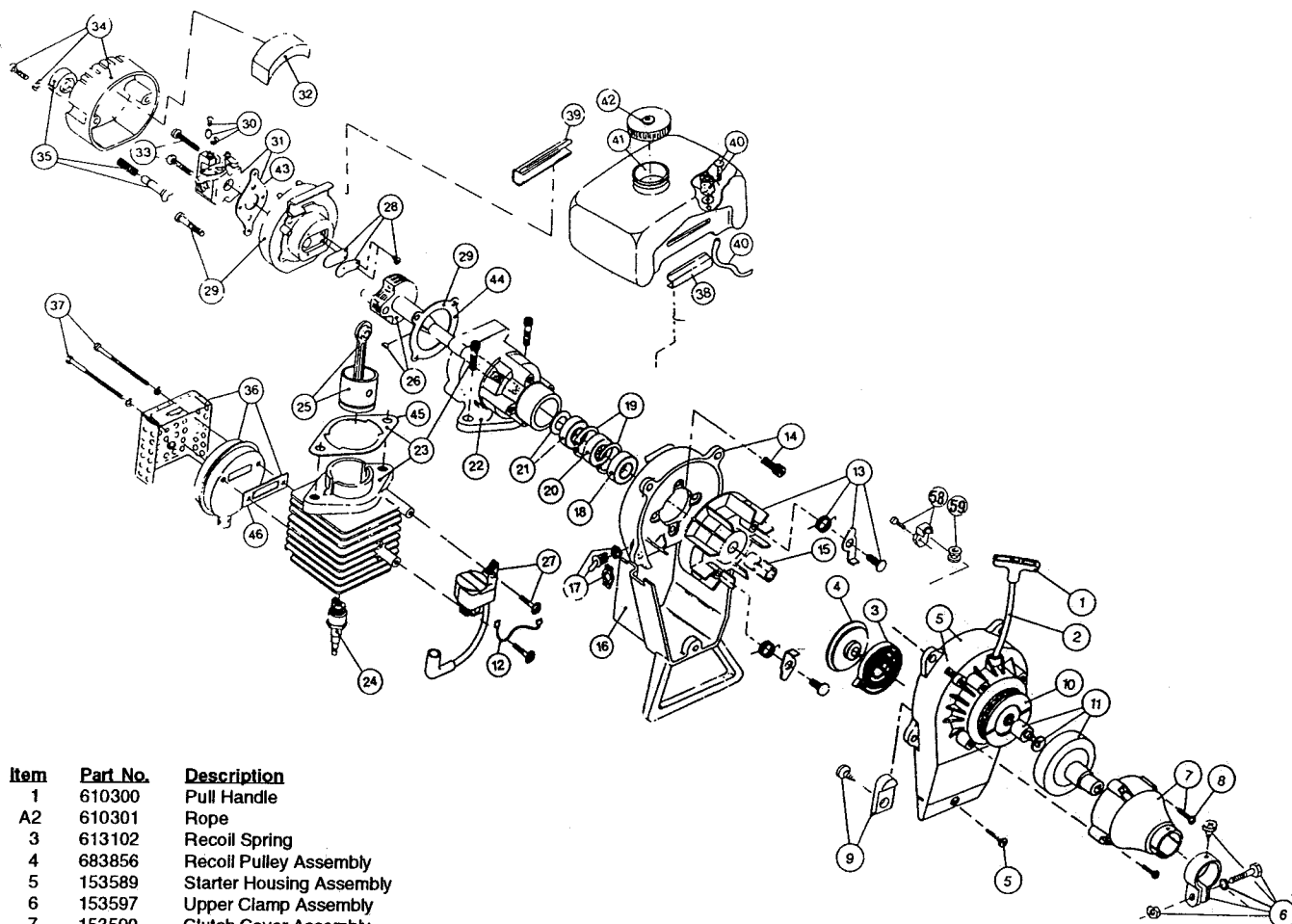


ENGINE PARTS - RYAN 284



Item	Part No.	Description
1	610300	Pull Handle
A2	610301	Rope
3	613102	Recoil Spring
4	683856	Recoil Pulley Assembly
5	153589	Starter Housing Assembly
6	153597	Upper Clamp Assembly
7	153590	Clutch Cover Assembly
8	145888	Clutch Cover Screw Assembly
9	145310	Pulley Retainer Assembly
10	153591	Clutch Rotor Assembly
11	153592	Clutch Drum Assembly
12	153177	Wire Lead
13	153624	Flywheel Assembly
14	153175	Shroud Assembly
15	145918	Spacer
16	153403	Shroud Extension and Stand
17	682035	Switch Assembly
18	610308	Outer Bearing
19	682040	Snap Ring Assembly
20	610309	Seal
21	682041	Inner Bearing Assembly
22	145563	Crankcase
A23	611735	Cylinder Assembly
24	610311	Spark Plug
25	153302	Piston and Rod Assembly
26	145919	Power Shaft Assembly
27	683390	Module Assembly
28	147573	Reed Assembly
29	683409	Carburetor Mount Assembly
30	147640	Throttle Adjustment Assembly (Tillotson)
30	682048	Throttle Adjustment Assembly (Walbro)
31	147635	Governed Carburetor Assembly (Walbro)
31	147637	Governed Carburetor Assembly (Tillotson)
32	610312	Air Cleaner Filter
33	682505	Carburetor Mounting Screw Assembly
34	683410	Air Cleaner Cover Assembly
35	682052	Choke Knob Assembly
36	153306	Muffler Assembly
A37	682054	Muffler Mounting Bolt Assembly
38	145308	Front Mounting Pad
39	612134	Rear Mounting Pad
40	682039	Fuel Line Assembly
41	145818	Fuel Tank
42	145562	Fuel Cap Assembly
43	610675	Carburetor Gasket (10 pack)

Item	Part No.	Description
44	610673	Carburetor Mount Gasket (10 pack)
45	145564	Cylinder Gasket (10 pack)
46	610672	Exhaust Gasket (10 pack)
*47	147655	Engine Hardware Kit
*48	153307	Engine Gasket Kit
*49	147170	O.E.M. Carburetor Repair Kit (Tillotson)
*49	153308	O.E.M. Carburetor Repair Kit (Walbro)
*50	153309	Gasket-Diaphragm Repair Kit (Walbro)
*50	147171	Gasket-Diaphragm Repair Kit (Tillotson)
*51	682507	Piston Ring
A*52	153594	Short Block Assembly (Items 18-26)
*53	153595	Crankcase Service Assembly (Items 18-22,26)
*54	610676	Flywheel Key (10 pack)
*55	683414	Complete Air Filter Assembly (Items 32, 34, 35)
*56	153522	Fuel Tank Assembly (Items 40-42)
*57	147611	Carburetor Mount and Reed Assembly (Items 28 and 29)
58	153644	Pulley and Rope Retainer
59	611061	Rope Guide
*60	147544	Starter Housing Screw Set

The above part numbers are for serial numbers 603053501 thru 809011000.

A Parts are for serial numbers 809011001 thru 909075150

2	613103	Rope
23	147603	Cylinder Assembly
37	147068	Muffler bolt Assembly
*52	147605	Short Block

* not shown

BOOM & TRIMMER PARTS - RYAN 284

Item	Part No.	Description
61	683303	Throttle Trigger Assembly
62	610314	Throttle Trigger Spring
*63	610327	Shoulder Strap Clamp
64	683294	J-Handle Assembly (includes items 67 and 68)
65	683295	Handle Bracket Assembly
66	153596	Drive Shaft Housing Assembly
67	612021	Tube Closure
68	612831	Closed Grip
69	145890	Retainer Sleeve
70	610303	Square Drive
*71	145905	Wrench
72	145893	Drive Shaft
73	682060	Clamp Assembly
74	683298	Mounting Bolt Assembly
75	683304	Guard Mounting Screws
76	683299	Guard and Blade Assembly
77	682061	Blade Assembly
78	153598	Bearing Housing Assembly
A79	612030	Blade Driver
80	145873	Blade 4 Tooth W/Cover
A81	145894	Lower Blade Holder
82	145895	Blade Retaining Nut
83	145896	Spool Shaft
84	153599	Outer Spool and Eyelet Assembly
85	145566	Eyelet
86	612026	Retainer (10 pack)
87	610317	Spring
88	153600	Inner Reel
89	153066	Bump Head Knob Assembly
90	682064	Flexible Drive Shaft
91	147590	Main Handle Grip
92	147594	Throttle Cable Housing
93	610315	Throttle Cable
94	147670	Blade Cover

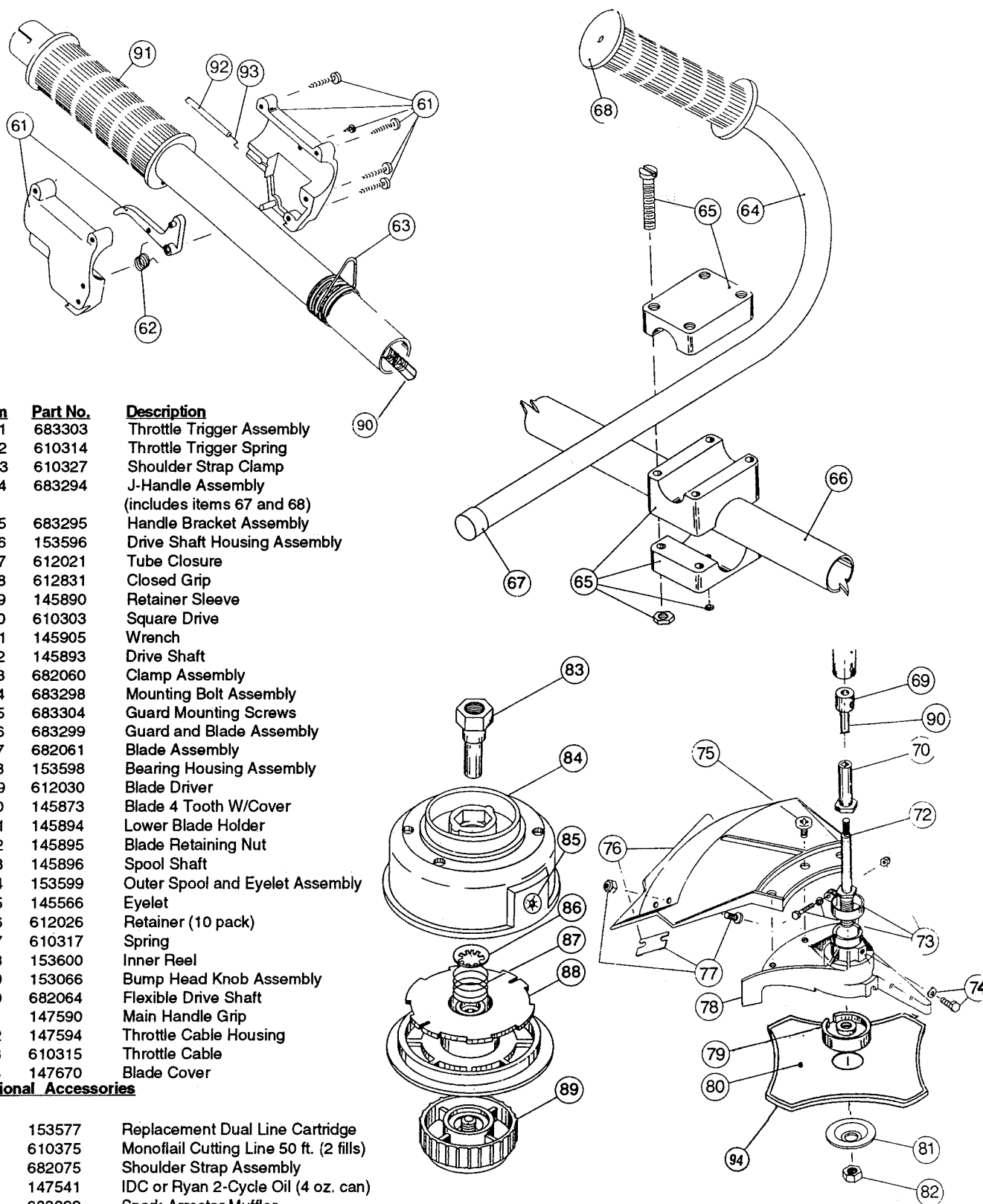
Optional Accessories

*	153577	Replacement Dual Line Cartridge
*	610375	Monofil Cutting Line 50 ft. (2 fills)
*	682075	Shoulder Strap Assembly
*	147541	IDC or Ryan 2-Cycle Oil (4 oz. can)
*	683822	Spark Arrestor Muffler
*	153700	Replacement Cutting Head Assembly

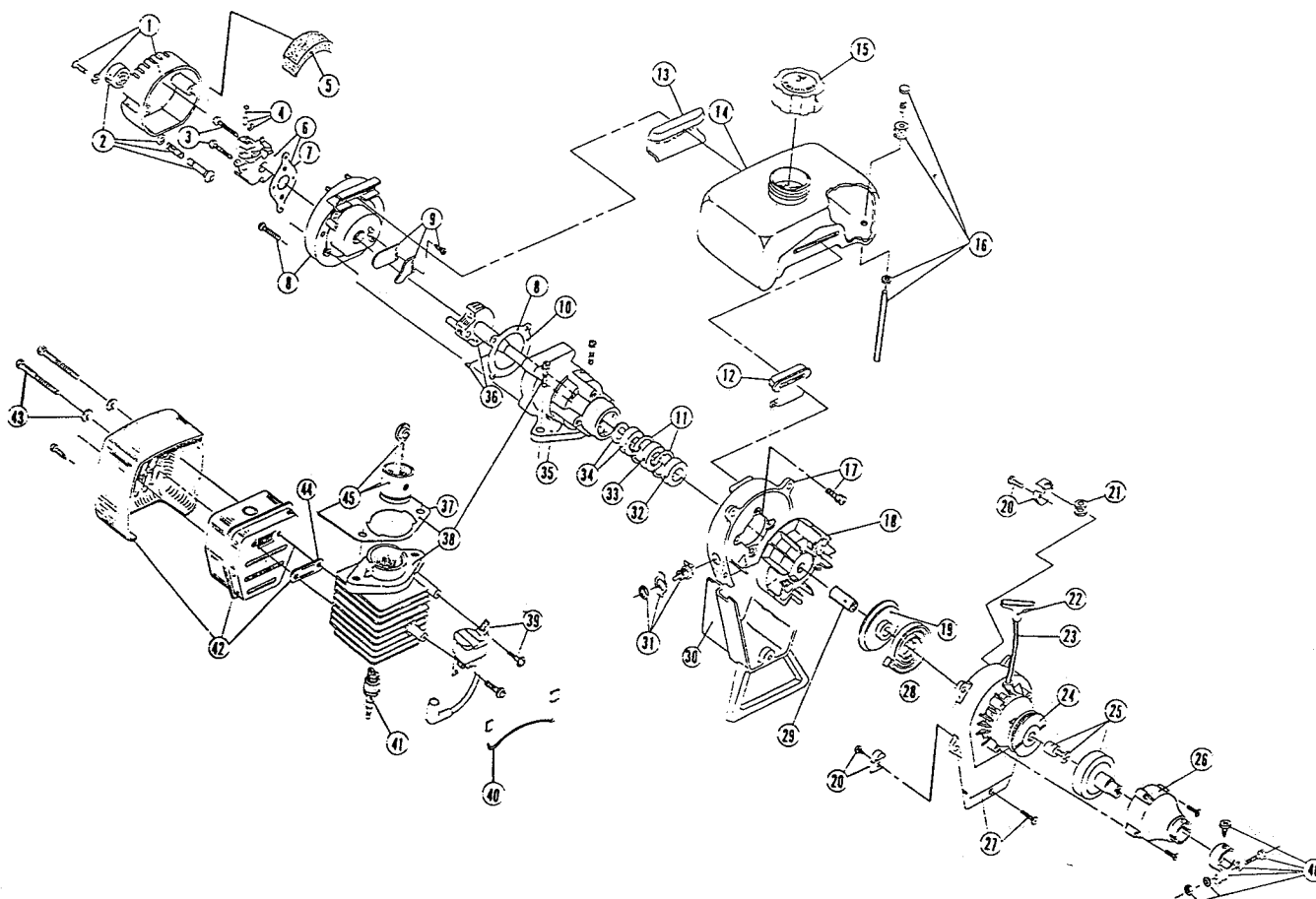
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A Part numbers are for serial numbers 60900000 and greater.

ITEM 79	PART NO.	147006
ITEM 81	PART NO.	147007



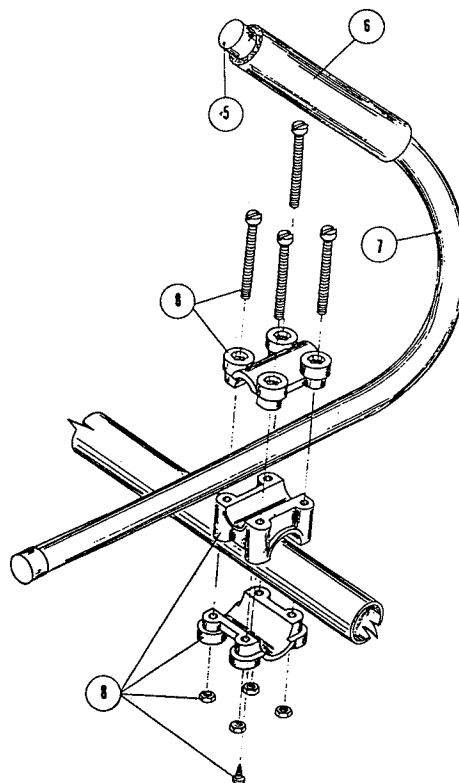
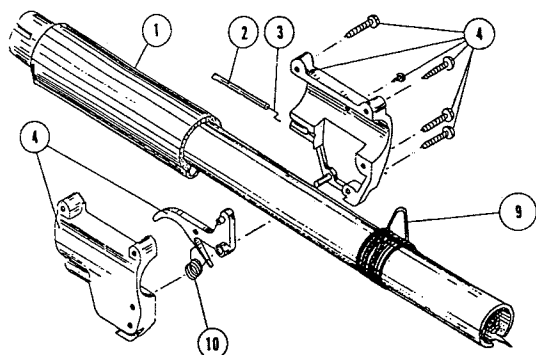
ENGINE PARTS - RYAN 284-2



Item	Part No.	Description	Item	Part No.	Description
1	683414	Air Filter Cover Assembly (items 2 and 5)	34	682041	Inner Bearing Assembly
2	682052	Choke Knob Assembly	35	147015	Crankcase
3	682505	Carburetor Mounting Screw Assembly	36	180022	Power Shaft Assembly
4	682048	Throttle Adjustment Assembly (Walbro)	37	145564	Cylinder Gasket (10 pack)
4	147640	Throttle Adjustment Assembly (Tillotson)	38	147603	Cylinder Assembly
5	610312	Air Cleaner Filter	39	683390	Module Assembly
6	147635	Governed Carburetor Assembly (Walbro)	40	153177	Wire Lead
6	147637	Governed Carburetor Assembly (Tillotson)	41	610311	Spark Plug
7	610675	Carburetor Gasket (10 pack)	42	180005	Muffler Assembly
8	180003	Carburetor Mount Assembly	43	147575	Muffler Mounting Bolts
9	147573	Reed Assembly	44	610672	Exhaust Gasket (10 pack)
10	612115	Carburetor Mount Gasket (10 pack)	45	153302	Piston and Rod Assembly
11	682040	Snap Ring Assembly	46	153597	Upper Clamp Assembly
12	145308	Front Mounting Pad	*	180025	Engine Hardware Kit
13	612134	Rear Mounting Pad	*	180011	Engine Gasket Kit
14	180008	Fuel Tank (includes items 15 and 16)	*	153308	O.E.M. Carburetor Repair Kit (Tillotson)
15	180000	Fuel Cap Assembly	*	180019	O.E.M. Carburetor Repair Kit (Walbro)
16	682039	Fuel Line Assembly	*	153309	Gasket-Diaphragm Repair Kit (Walbro)
17	153175	Shroud Assembly	*	180020	Gasket-Diaphragm Repair Kit (Tillotson)
18	153624	Flywheel Assembly	*	682507	Piston Ring
19	683856	Starter Pulley	*	180027	Short Block Assembly
20	153644	Pulley and Rope Guide Retainers			(items 11, 32-38, 41, 45)
21	611061	Rope Guide	*	180026	Crankcase Service Assembly
22	610300	Pull Handle			(items 11, 32-36)
23	613103	Rope	*	610676	Flywheel Key (10 pack)
24	153591	Clutch Rotor Assembly	*	180007	Carburetor Mount and Reed Assembly
25	153592	Clutch Drum Assembly			(items 8 and 9)
26	153590	Clutch Cover Assembly	*	147544	Starter Housing Screw Set
27	153589	Starter Housing Assembly			
28	613102	Recoil Spring	*	not shown	
29	145918	Spacer			
30	153403	Shroud Extension and Stand			
31	682035	Switch Assembly			
32	610308	Outer Bearing			
33	610309	Seal			

The above part numbers are for serial numbers 909075157 thru 009153201.

BOOM & TRIMMER PARTS - RYAN 284-2

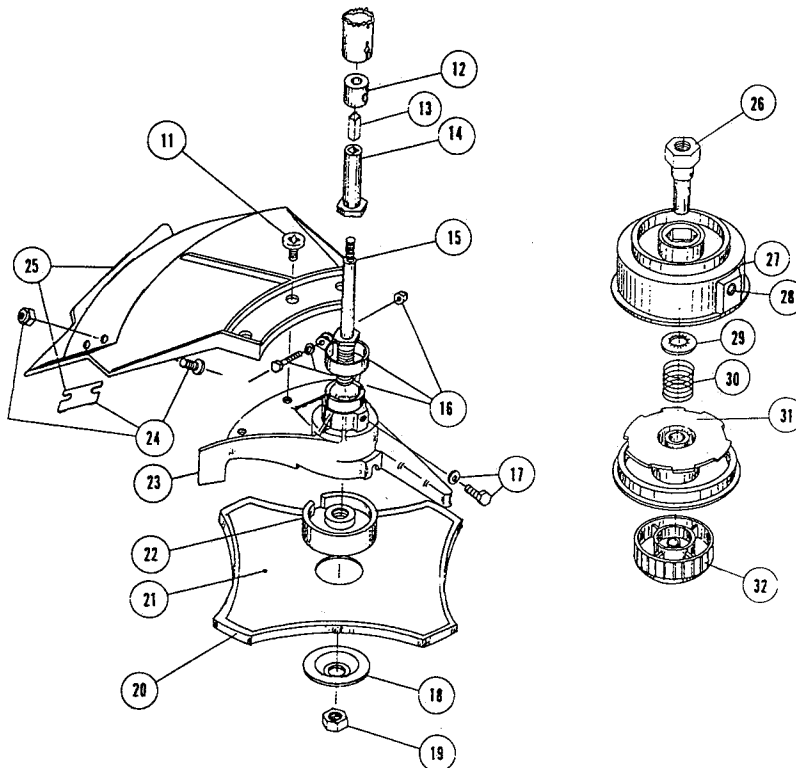


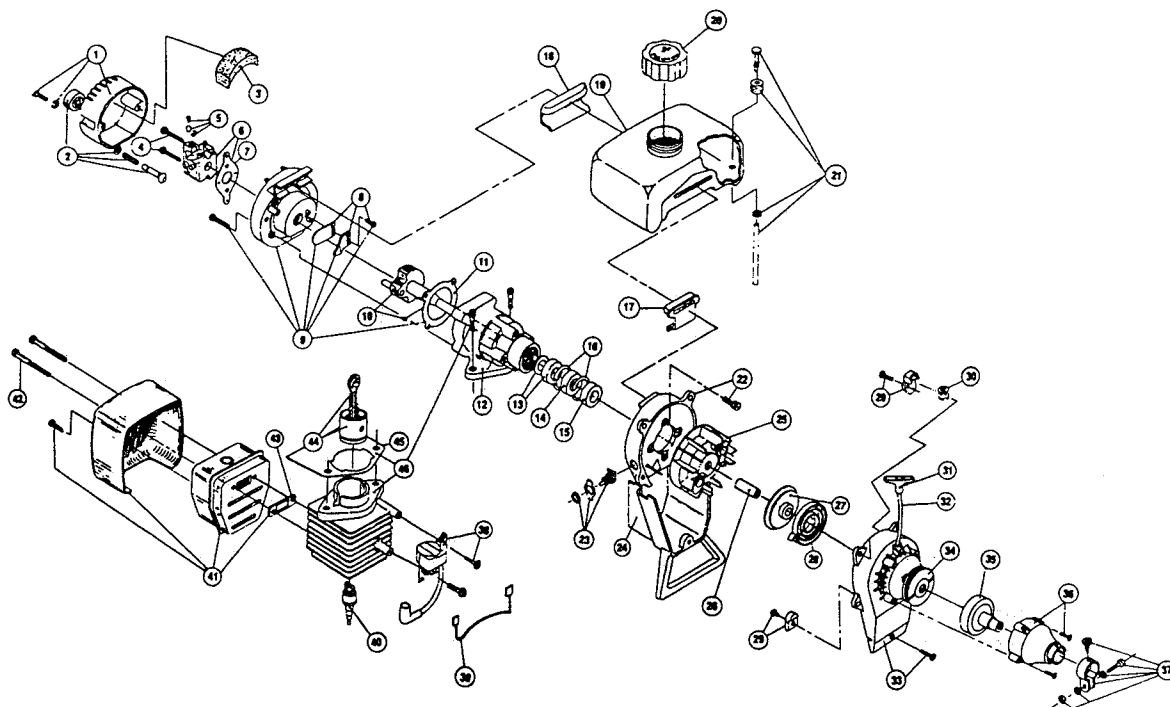
<u>Item</u>	<u>Part No.</u>	<u>Description</u>
1	147590	Main Handle Grip
2	147594	Throttle Cable Housing
3	610315	Throttle Cable
4	683303	Throttle Trigger Assembly
5	612021	Tube Closure
6	612831	Grip
7	683294	J-Handle Assembly
8	683295	Handle Bracket Assembly
9	610327	Shoulder Strap Assembly
10	610314	Throttle Trigger Spring
11	683304	Guard Mounting Screws
12	145890	Retainer Sleeve
13	682064	Flexible Drive Shaft
14	610303	Square Drive Nut
15	145893	Drive Shaft
16	682060	Clamp Assembly
17	683298	Mounting Bolt Assembly
18	147007	Lower Blade Holder
19	145895	Blade Retaining Nut
20	147670	Blade Cover
21	145873	Blade
22	147006	Blade Driver
23	153598	Bearing Housing Assembly
24	682061	Blade Assembly
25	683299	Guard and Blade Assembly
26	145896	Spool Shaft
27	153599	Outer Spool and Eyelet Assembly
28	145566	Eyelet
29	612026	Retainer (10 pack)
30	610317	Spring
31	153600	Inner Reel
32	153066	Bump Head Knob Assembly

Optional Accessories

* 145905	Wrench
* 153577	Spool and 30 ft. Line Assembly
* 610375	Monoflail Cutting Line, 50 ft.
* 682075	Shoulder Strap Assembly
* 147543	IDC 2 Cycle Oil (4 oz. can)
* 147299	Locking Rod Tool
* 153700	Complete Head Assembly
* 180015	Blade Retaining Kit (items 18 and 19)
* 180018	Owner's Manual

★ not shown



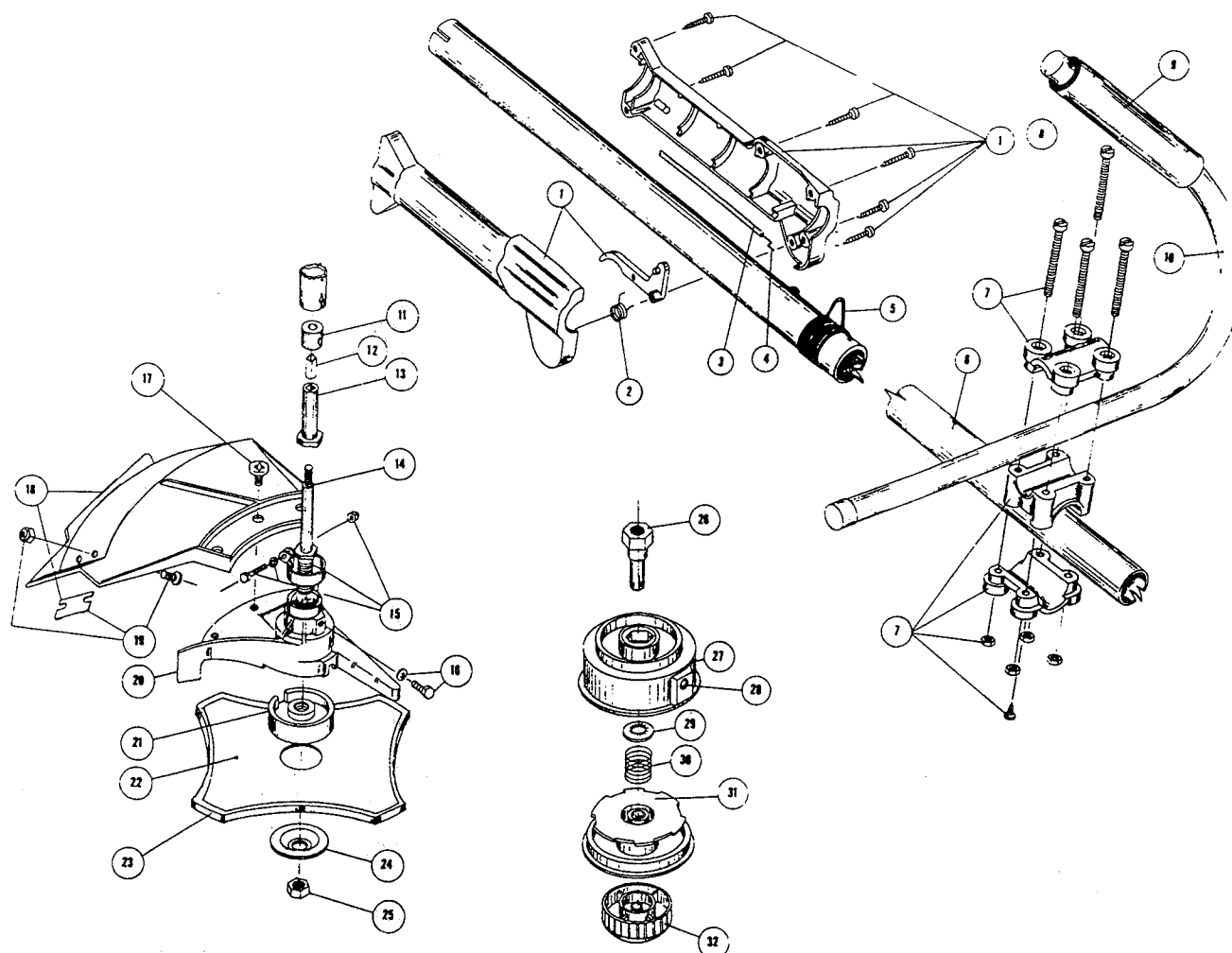
ENGINE PARTS - RYAN 284-3

Item	Part No.	Description
1	683414	Carburetor/Air Cleaner Cover Assembly (items 2 and 5)
2	682052	Choke Knob Assembly
3	610312	Air Cleaner Filter
4	682505	Carburetor Mounting Screw Assembly
5	682048	Throttle Adjustment Assembly (Walbro)
5	147640	Throttle Adjustment Assembly (Tillotson)
6	147635	Governed Carburetor Assembly
7	610675	Carburetor Gasket (10 pack)
8	147573	Reed Assembly
9	180007	Carburetor Mount Assembly
10	180022	Power Shaft Assembly
11	612115	Carburetor Mount Gasket (10 pack)
12	147015	Crankcase
13	682041	Inner Bearing Assembly
14	610309	Seal
15	610308	Outer Bearing Assembly
16	682040	Snap Ring Assembly
17	145308	Front Mounting Pad
18	612134	Rear Mounting Pad
19	180008	Fuel Tank Assembly (items 20 and 21)
20	180000	Fuel Cap Assembly
21	682039	Fuel Line Assembly
22	153175	Shroud Assembly
23	682035	Switch Assembly
24	153403	Shroud Extension and Stand
25	153624	Flywheel Assembly
26	145918	Spacer
27	683856	Recoil Pulley Assembly
28	613102	Recoil Spring
29	153644	Pulley Retainer Assembly
30	611061	Rope Guide
31	610300	Pull Handle
32	613103	Rope
33	153589	Starter Housing Assembly

Item	Part No.	Description
34	153591	Clutch Rotor Assembly
35	153592	Clutch Drum Assembly
36	153590	Clutch Cover Assembly
37	153597	Upper Clamp Assembly
38	683390	Module Assembly
39	153177	Wire Lead
40	610311	Spark Plug
41	180005	Muffler Assembly (includes item 39)
42	147575	Muffler Mounting Bolt Assembly
43	610672	Exhaust Gasket (10 pack)
44	153302	Piston and Rod Assembly
45	145564	Cylinder Gasket (10 pack)
46	180063	Cylinder Assembly
*	180025	Engine Hardware Kit
*	180011	Engine Gasket Kit
*	153308	O.E.M. Carburetor Repair Kit (Walbro)
*	147170	O.E.M. Carburetor Repair Kit (Tillotson)
*	153309	Gasket-Diaphragm Repair Kit (Walbro)
*	147171	Gasket-Diaphragm Repair Kit (Tillotson)
*	682507	Piston Ring
*	180027	Short Block Assembly (items 10, 12-16, 40, 44-46)
*	180026	Crankcase Service Assembly (items 10, 12-16)
*	610676	Flywheel Key (10 pack)
*	147544	Starter Housing Screw Set
*		not shown

The above part numbers are for serial numbers 009153201 thru 101052250.

BOOM & TRIMMER PARTS - RYAN 284-3



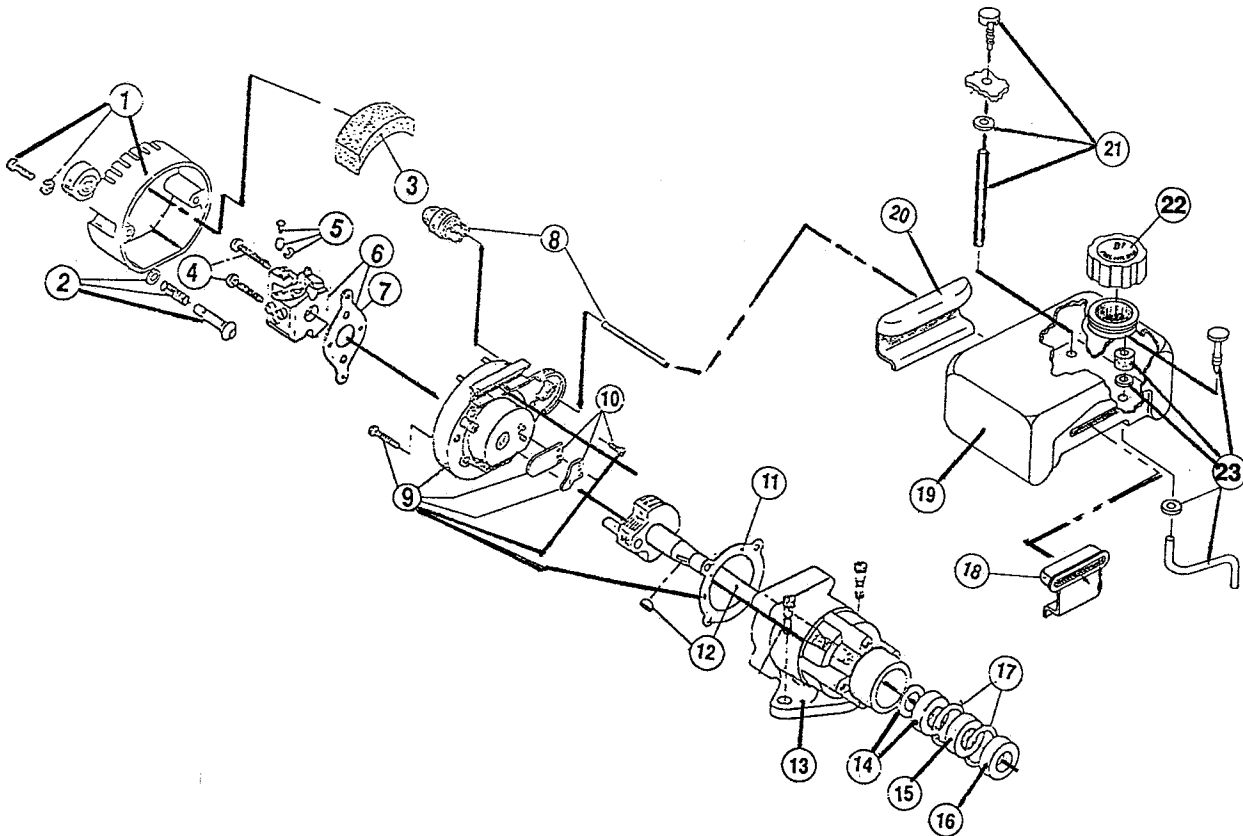
Item	Part No.	Description
1	180017	Throttle Housing and Trigger Assembly
2	610314	Throttle Trigger Spring
3	180021	Throttle Cable Housing
4	180127	Throttle Cable
5	610327	Shoulder Strap Clamp
6	153596	Drive Shaft Housing Assembly
7	683295	Handle Bracket Assembly
8	612021	Tube Closure
9	612831	Grip
10	683870	J-Handle Assembly (items 8 and 9)
11	145890	Retainer Sleeve
12	682064	Flexible Drive Shaft
13	610303	Square Drive
14	145893	Drive Shaft
15	153597	Clamp Assembly
16	683298	Mounting Bolt Assembly
17	683304	Guard Mounting Screws
18	683299	Guard and Blade Assembly
19	682061	Blade Assembly
20	153598	Bearing Housing Assembly
21	147006	Blade Driver
22	145873	Blade
23	147670	Blade Tooth Cover
24	147007	Lower Blade Holder

Item	Part No.	Description
25	145895	Blade Retaining Nut
26	145896	Spool Shaft
27	153599	Outer Spool and Eyelet Assembly
28	145566	Eyelet
29	612026	Retainer (10 pack)
30	610317	Spring
31	153600	Inner Reel
32	153066	Bump Head Knob Assembly

Optional Accessories

*	153577	Spool and 30 ft. Line (dual)
*	610375	Monofilament Cutting Line, 50 ft.
*	682075	Shoulder Strap Assembly
*	147541	IDC 2-Cycle Oil (4 oz. can)
*	147299	Locking Rod Tool
*	153700	Complete Head Assembly (items 26-32)
*	147905	Wrench
*	180015	Blade Retaining Kit (items 24 and 25)
*		not shown

ENGINE PARTS - RYAN 284-3 ADDENDUM



Item	Part No.	Description
1	683414	Carburetor/Air Cleaner Cover Assembly (includes items 2 and 3)
2	682052	Choke Knob Assembly
3	610312	Air Cleaner Filter
4	682505	Carburetor Mounting Screw Assembly
5	682048	Throttle Adjustment Assembly (Walbro)
5	147640	Throttle Adjustment Assembly (Tillotson)
6	147602	Governed Carburetor Assembly
7	610675	Carburetor Gasket (10 pack)
8	683974	Primer and Hose Assembly
9	180033	Carburetor Mount Assembly
10	147573	Reed Assembly
11	612115	Carburetor Mount Gasket (10 pack)
12	180022	Power Shaft Assembly
13	147015	Crankcase

Item	Part No.	Description
14	682041	Inner Bearing Assembly
15	610309	Seal
16	610308	Outer Bearing Assembly
17	682040	Snap Ring Assembly
18	145308	Front Mounting Pad
19	180284	Fuel Tank Assembly (includes items 21-23)
20	612134	Rear Mounting Pad
21	147290	Return Line Assembly
22	180000	Fuel Cap Assembly
23	682039	Fuel Line Assembly

The above part numbers are for serial numbers 203038541 and greater.