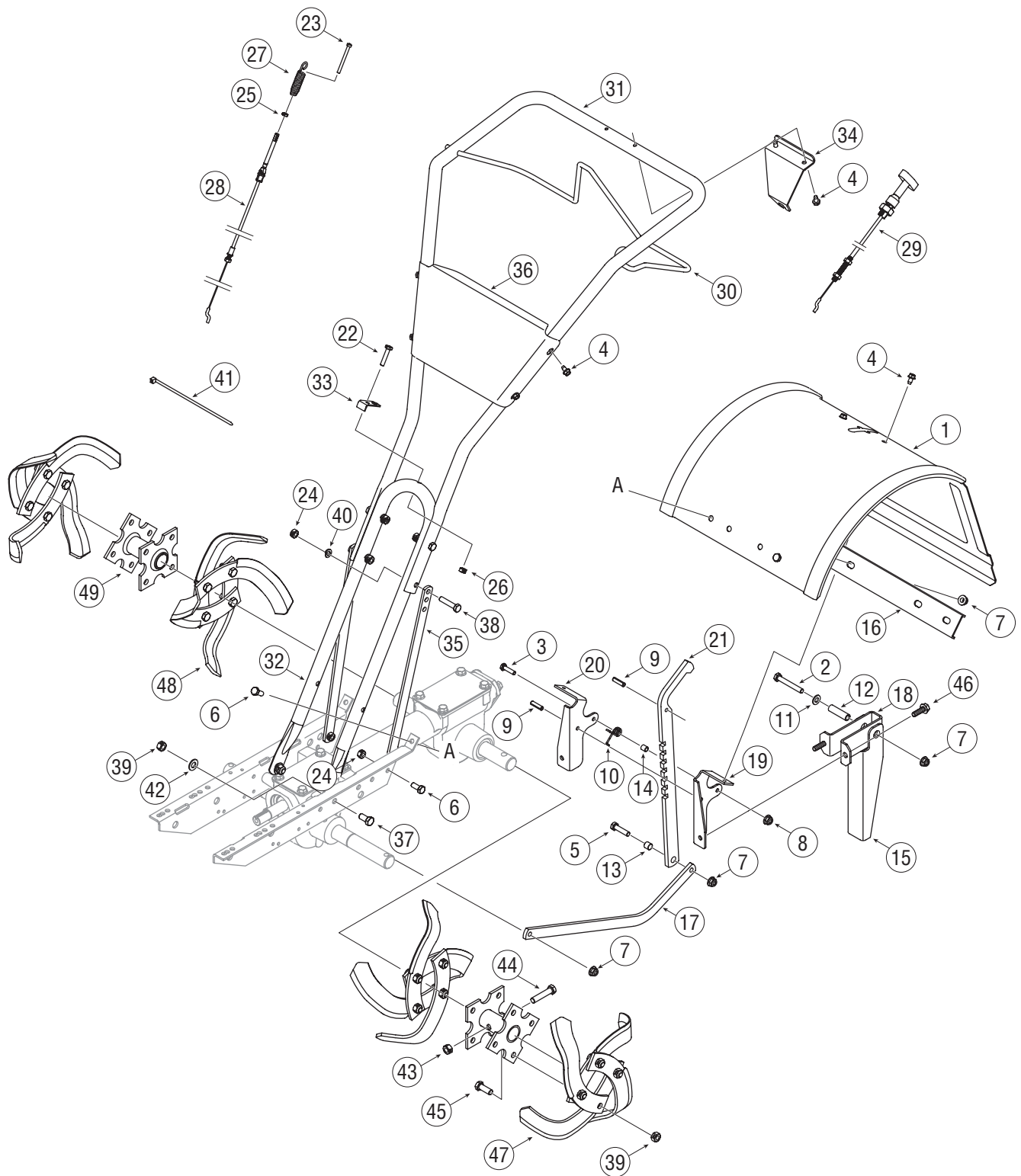


Models 643C, 643B & 645A



MODELS 643C, 643B & 645A

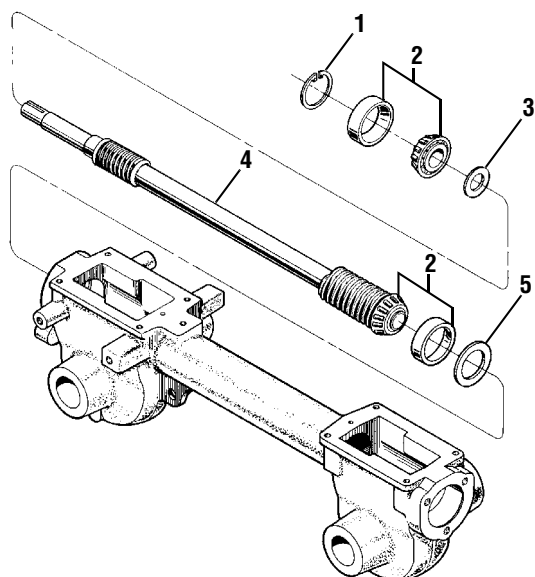
REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
1	686-04043	Tine Hood Assembly (A)	27	732-04185	Spring, Forward Clutch
	686-04041	Tine Hood Assembly (B) (C)	28	746-04208	Cable Assembly, Forward Clutch
2	710-0395	Hex Screw, 5/16-18 x 2.25	29	746-04058	Cable Assembly, Reverse Clutch (B) (C)
3	710-0597	Hex Hd. Screw, 1/4-20 x 1	30	747-04210	Bail, Forward Clutch
4	710-0599	Screw, Self-Tapping, 1/4-20 x 1/2	31	749-04084	Upper Handlebar
5	710-0874	Hex Hd. Screw, 5/16-18 x 1-1/4	32	749-04208	Lower Handlebar
6	710-3008	Hex Hd. Screw, 5/16-18 x .75	33	749-04106	Tab, Conduit Mount
7	712-04063	Hex Lock Nut, Nylon, 5/16-18	34	732-04040	Bracket, Reverse Clutch Cable (B) (C)
8	712-04064	Hex Lock Nut, Nylon, 1/4-20	35	786-04188	Handlebar Support
9	715-0108	Spirol Pin	36	786-04200	Panel
10	732-04320	Spring, Depth Regulator	37	710-0216	Screw, Hex, 3/8-16 x 3/4
11	736-0275	Flat Washer, 5/16	38	710-0805	Screw, Hex, 5/16-18 x 1-1/2
12	750-04149	Spacer, .462 x .328 x 1.63	39	712-3000	Hex Lock Nut, 3/8-16
13	750-04160	Bushing	40	736-0119	Lock Washer, 5/16
14	750-04556	Spacer	41	725-0157	Cable Tie
15	786-04092	Reverse Stop Arm	42	736-3050	Flat Washer, 3/8
16	786-04098	Channel Support Bracket	43	712-04065	Flange Lock Nut 3/8-16
17	786-04104	Drag Bar	44	710-0347	Hex Hd. Screw, 3/8-16 x 1-3/4
18	786-04191	Flap Stop Bracket	45	710-0514	Hex Hd. Screw, 3/8-16 x 1, Grade 5
19	786-04290	Hood Bracket, Left Hand	46	710-04048	Flange Screw .312-18 x 1.00
20	786-04291	Hood Bracket, Right Hand	47	742-04117	Single Bolo Tine - Left Hand
21	786-04292	Adjustable Depth Bar	48	742-04116	Single Bolo Tine - Right Hand
22	710-0106	Hex Hd. Screw, 1/4-20 x 1-1/4	49	686-04066	Tine Holder (A)
23	710-04163	Screw, #10-24 x 2		686-04065	Tine Holder (B) (C)
24	712-3009	Hex Lock Nut, 5/16-18		GW-1901	Bolo Tine Replacement Set <i>(Incl. eight right-hand tines, eight left-hand tines and required hardware).</i> (A) (B) (C)
25	712-0121	Hex Nut, #10-24			
26	712-0291	Hex Lock Nut, 1/4-20			

(A) For Model 643C

(B) For Model 643B

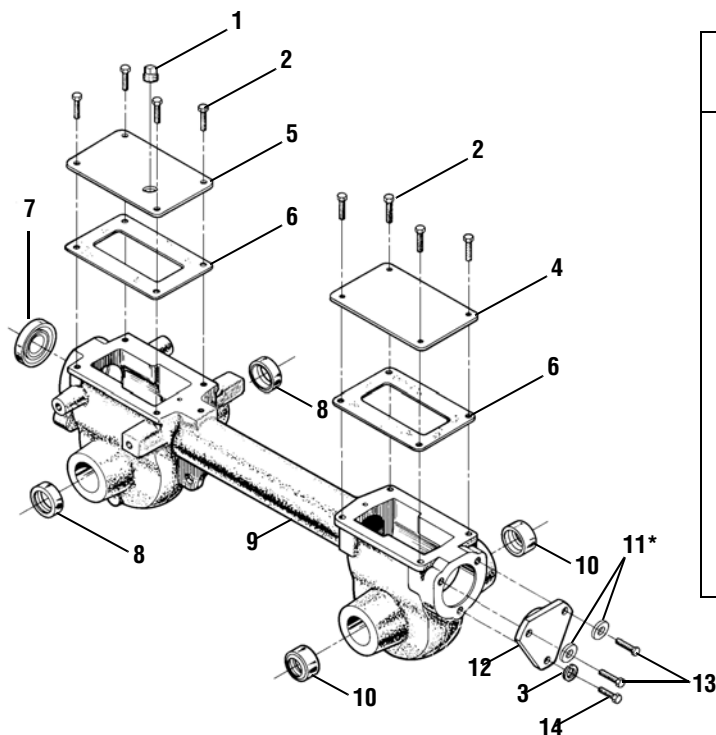
(C) For Model 645A

MODELS 643C, 643B & 645A



REF NO.	PART NO.	DESCRIPTION
1	GW-9517	Snap Ring
2	GW-1714	Bearing, Tapered Roller (with race)
3	GW-50043	Support Washer, Rear
4	711-04110	Drive Shaft
5	GW-1224-1*	Shim, Rear Bearing Cap, .010" thick
	GW-1224-2*	Shim, same as above, except .030" thick
	GW-1224-3*	Shim, same as above, except .005" thick
	GW-1224-4*	Shim, same as above, except .062" thick
—	GW-1325C	Shim Set (Incl. the following shims: two #1224-1, two 1224-2 & one #1224-4)

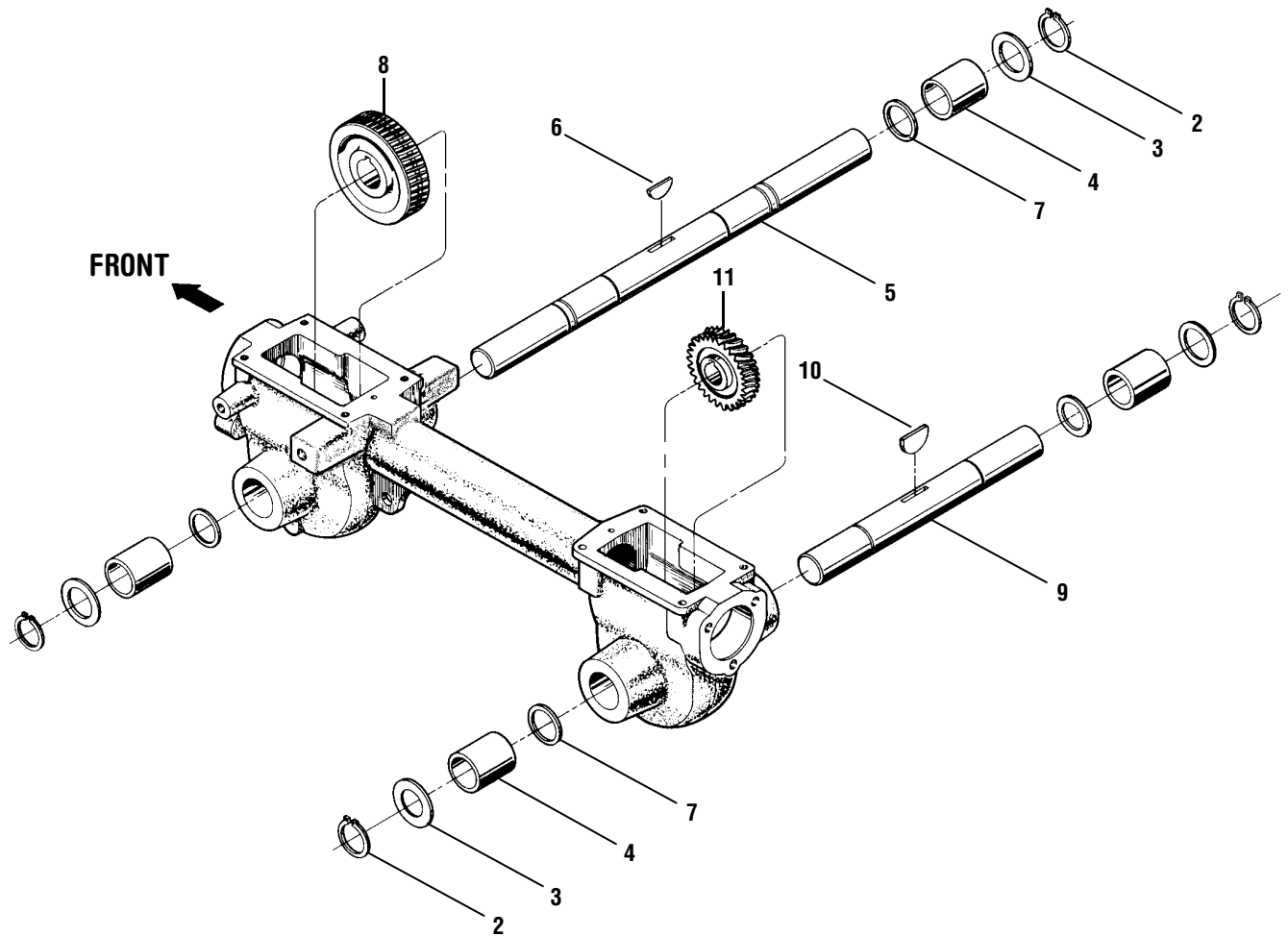
* Use as required to obtain between .005" and .015" allowable end-play.



REF NO.	PART NO.	DESCRIPTION
1	GW-9727	Plug, Transmission Oil Fill
2	710-04049	Hex Hd. Flange Screw, 5/16-18 x 5/8, Gr. 5
3	736-0119	Lock Washer, 5/16
4	1918377	Rear Cover, Transmission
5	1916641	Front Cover, Transmission
6	GW-50032	Gasket, Housing Cover
7	721-04030	Oil Seal, Drive Shaft
8	721-04031	Oil Seal, Wheel Shaft
9	619-04013	Transmission Housing Assembly
10	721-04036	Oil Seal, Tine Shaft
11	736-3008*	Washer, Flat, .344 x .750 x .120
12	718-04008	Rear Bearing Cap
13	710-04048	Hex Hd. Flange Screw, 5/16-18 x 1
14	710-3008	Hex Hd. Flange Screw, 5/16-18 x 3/4

*Included with transmission when purchased as an assembly only.
Remove and discard when installing the transmission on tiller.

MODELS 643C, 643B & 645A



REF NO.	PART NO.	DESCRIPTION
2	1909950	Retainer, Snap Ring
3	GW-1166-1*	Shim, 0.062" thick
	GW-1166-2*	Shim, 0.030" thick
	GW-1166-3*	Shim, 0.015" thick
	GW-1166-4*	Shim, 0.010" thick
	GW-1166-5*	Shim, 0.005" thick
4	GW-1086	Bronze Bushing
5	711-04512	Wheel Shaft (A)
	711-04486	Wheel Shaft (B) (C)
6	GW-9305	Key, Hi-Pro, 1/4 x 1
7	GW-1132-2	Spacer
8	1904278	Worm Gear, Wheel Shaft
9	711-04078	Tiller Shaft
10	GW-1104	Woodruff Key
11	1916542	Worm Gear, Tiller Shaft

(A) For Model 643C
(B) For Model 643B
(C) For Model 645A

* Use as required to obtain between .005" and .030" allowable end-play.

This exploded view diagram illustrates the assembly of a snowblower. The main components are shown in their relative positions:

- Engine and Chute Assembly (Top):** Includes the engine (44), fuel tank, and chute (8) with its mounting bracket (14) and various fasteners (19, 27, 29, 40, 45).
- Drive and Auger Assembly (Center):** Features the drive shaft (13), transmission housing (36), and auger (48) with its mounting bracket (12) and various fasteners (15, 17, 20, 21, 22, 23, 26, 27, 28, 30, 31, 32, 33, 34, 35, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47).
- Belts and Pulleys (Bottom Left):** Shows the main drive belt (6) and its associated pulleys (3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).
- Model 643C (Bottom Right):** A detailed view of the auger and its mounting bracket (12) with various fasteners (15, 17, 20, 21, 22, 23, 26, 27, 28, 30, 31, 32, 33, 34, 35, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47).

MODELS 643C, 643B & 645A

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
1	736-0159	Flat Washer, 5/16	27	736-0119	Lock Washer, 5/16 (A)
2	756-04198	Pulley, Engine Drive	28	750-0535	Spacer, .380 ID x .625 OD x .21 (A)
3	656-04023	Transmission Pulley (A)		736-3050	Flat Washer .406 x .812 x .051 (B) (C)
	656-04005	Transmission Pulley (B) (C)	29	736-3090	Flat Washer
4	756-04169	Pulley, Reverse Idler (B) (C)	30	736-0452	Bell Washer
5	786-04095	Guard, Belts/Pulleys	31	710-0459A	Hex Hd. Screw, 3/8-24 x 1.50, GR5
6	754-04090	Forward Drive Belt	32	736-04181	Support Washer
7	754-04091	Reverse Drive Belt (B) (C)	33	732-04085	Forward Return Spring
8	731-05268	Belt Cover	34	786-04107	Bracket, Cable Mounting
9	732-04289	Reverse Return Spring (B) (C)	35	756-04170	Forward Idler Pulley
10	732-04081	Belt Guide (B) (C)	36	714-0105	Key, 3/16" x 1"
11	732-04079	Belt Guide	37	736-3078	Flat Washer
12	786-04068	Engine Bracket, Left	38	736-04193	Belleville Washer
13	786-04069	Engine Bracket, Right	39	710-0805	Hex Screw, 5/16-18 x 1.50 Gr5 (A) (B)
14	786-04070	Bracket, Belt Cover		710-0395	Hex Screw, 5/16-18 x 2-1/4, Gr5 (C)
15	748-04087	Shoulder Washer	40	712-04063	Nut, Hex Lock, 5/16-18
16	786-04276	Reverse Idler Arm (B) (C)	41	750-0258	Spacer, Shoulder (A)
17	786-04275	Forward Idler Lever	42	736-0315	Washer, Flat, .75 x 1.5 x .125 (A)
18	710-0672	Hex Hd. Screw, 5/16-24 x 1.25 (A)		736-04192	Flat Washer .786 x 1.000 x .031 (B) (C)
	710-0117	Hex Hd. Screw, 5/16-24 x 1 (B) (C)	43	736-0242	Bell Washer
19	710-0237	Hex Hd. Screw, 5/16-24 x 5/8	44	749-04193	Bumper (C)
20	710-0376	Hex Hd. Screw, 5/16-18 x 1	45	726-0201	Nut, Speed, 5/16-18 (C)
21	710-04049	Hex Hd. Screw, 5/16-18 x 5/8	46	714-0143	Klik Pin
22	710-0347	Hex Hd. Screw, 3/8-16 x 1-3/4 (A)	47	734-04188	Complete Wheel Assembly 10 x 2.75 (A)
	710-0520	Hex Hd. Screw, 3/8-16 x 1.50 (B) (C)	48	634-04232	Complete Wheel Assembly 13 x 5 x 6 (B) (C)
23	710-0599	Screw, Self-Tapping, 1/4-20 x 1/2		634-04218	Rim Assembly (B) (C)
24	710-3103	Hex Hd. Screw, 5/16-18 x 2 (B) (C)		734-0255	Air Valve (B) (C)
25	712-3000	Lock Nut, 3/8-16		734-04163	Tire (B) (C)
26	712-3009	Lock Nut, 5/16-18 (B) (C)			

(A) For Model 643C

(B) For Model 643B

(C) For Model 645A