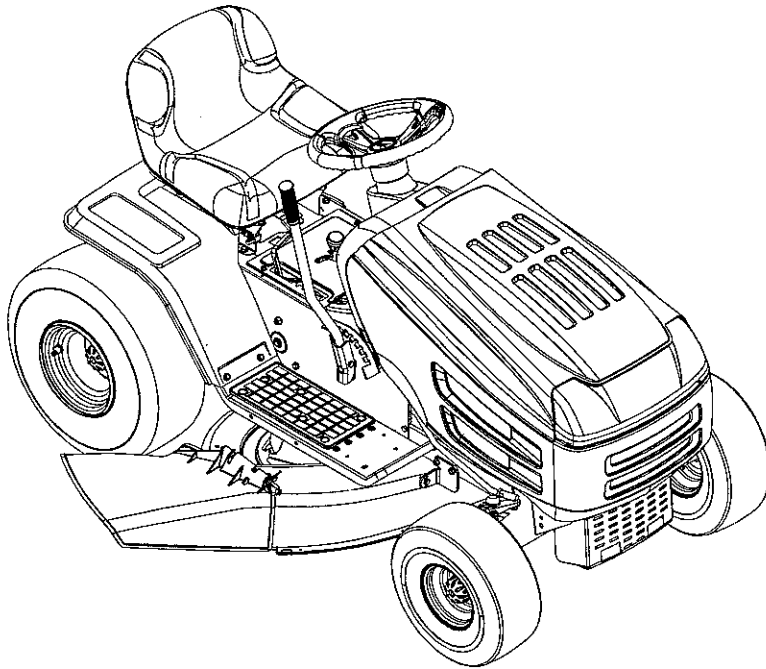


Illustrated Parts Manual



Transmatic Lawn Tractor

MODELS 660, 680

662, 682

663, 683

665, 685

668, 688

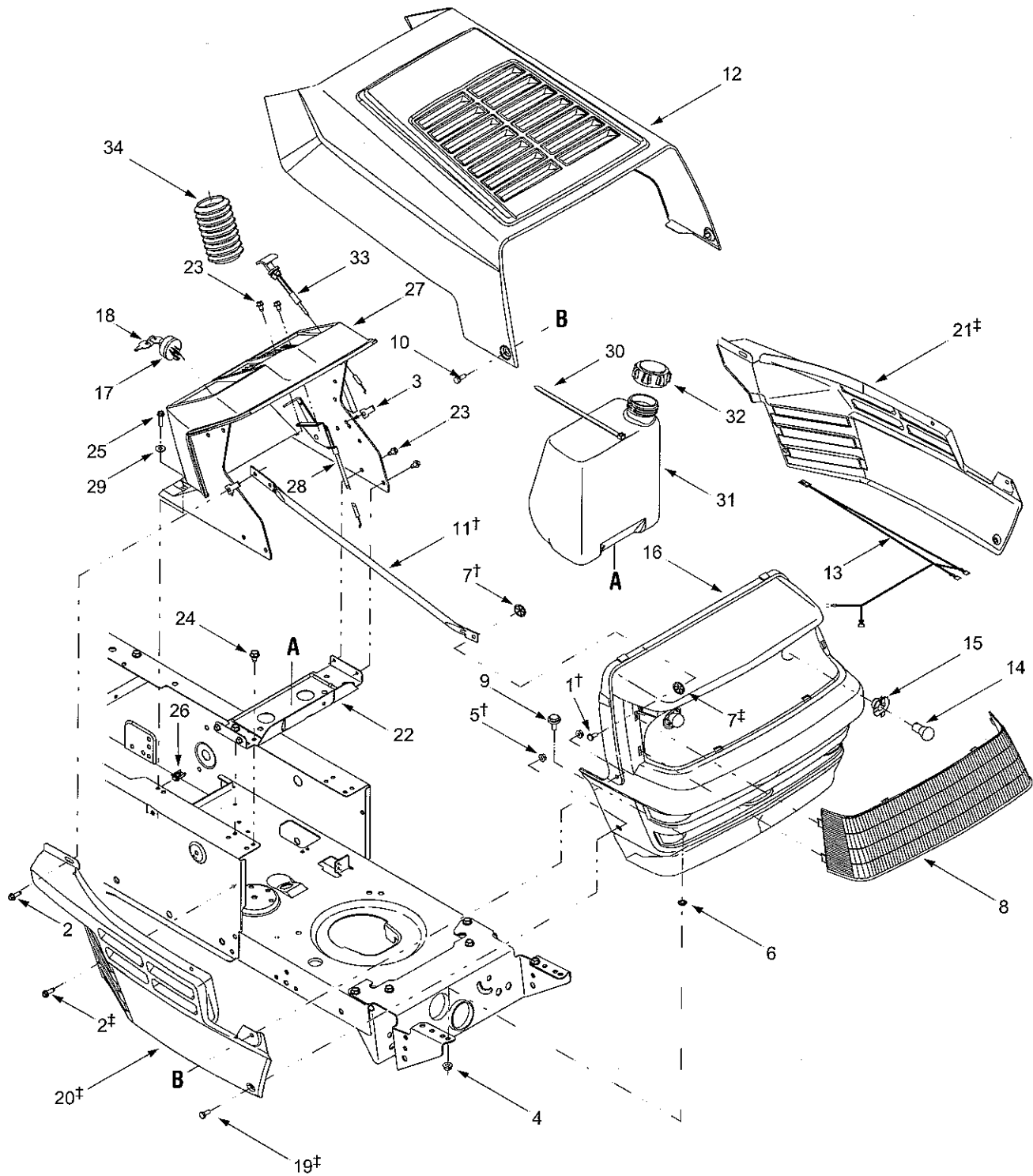
MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-9722

PRINTED IN U.S.A

FORM NO. 769-00642B

(10/24/2003)

Models 660, 665, 680 & 685



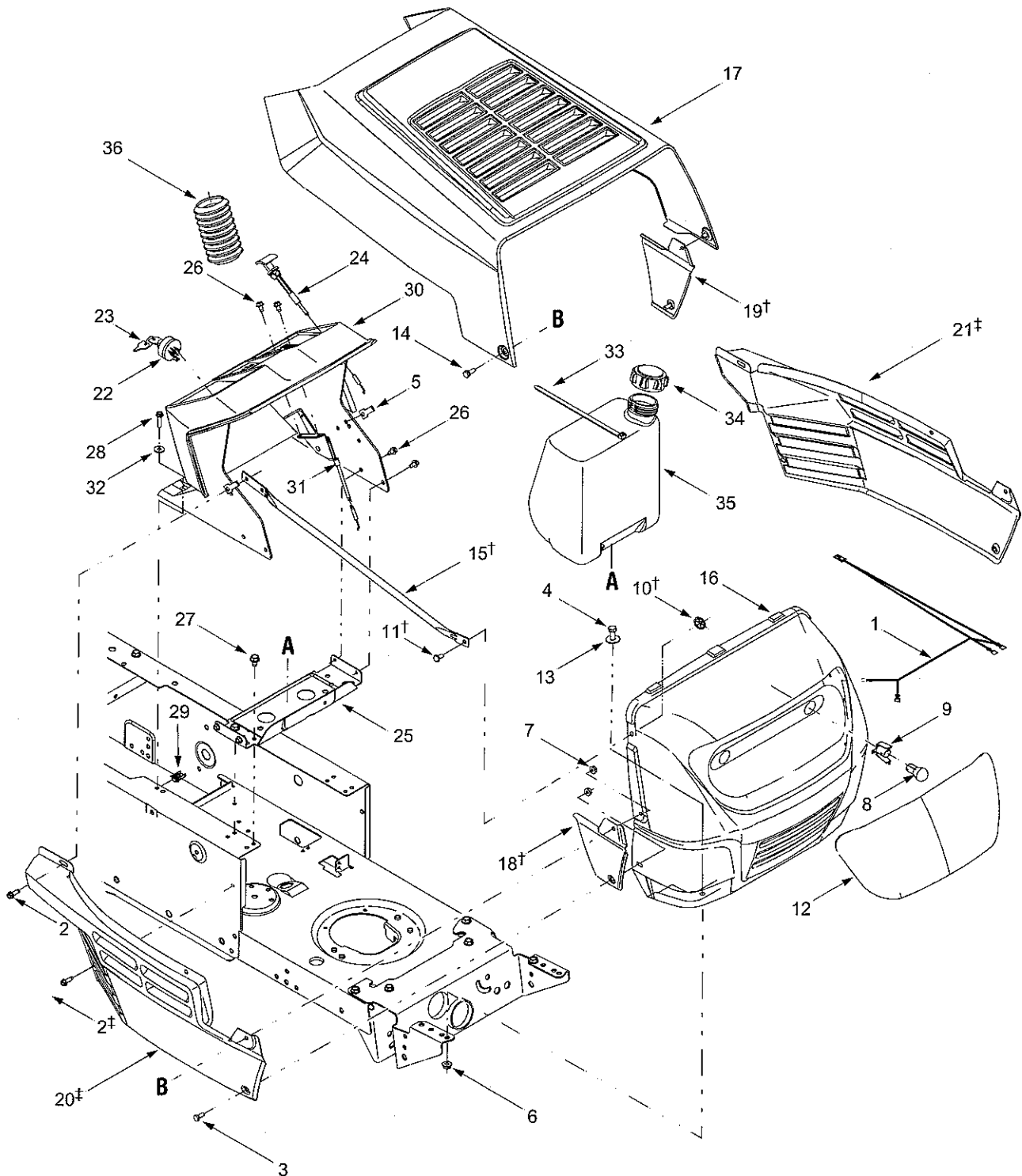
† Found on Models 660 & 680 Only
 ‡ Found on Models 665 & 685 Only

Models 660, 665, 680 & 685

REF. NO.	PART NO.	DESCRIPTION
1	728-0162	Flat-head Rivet, 1/4
2	710-0642	Self-tapping Screw, 1/4-20 x .75
3	712-0185	U-type Speed Nut, 1/4-20
4	712-0429	Lock Nut, 5/16-18
5	712-0324	Lock Nut, 1/4-20
6	726-0201	Speed Nut, .3125
7	726-04012	Push-on Nut, .25
8	731-1099A	Lens
9	738-04015	Shoulder Screw, 5/16-18 x .625
10	738-0952A	Shoulder Screw, 1/4-20 x .375 / .125
11	749-0722C	Grille Support Rod
12	783-0250A	Hood w/ Louvers
13	629-0469B	Headlamp Harness Assembly
14	725-0963	Headlamp, 12V
15	725-1649	Headlamp Socket
16	731-1097F	Grille
17	725-1396	Ignition Switch, 6-pin
18	725-0201	Keys (pair)
19	710-0751	Hex Screw, 1/4-20 x .620
20	783-0150B	RH Side Panel
21	783-0151B	LH Side Panel
22	17632D	Support Bracket
23	710-0599	Self-tapping Screw, 1/4-20 x .5
24	710-0607	Self-tapping Screw, 5/16-18 x .5
25	710-0788	Self-tapping Screw, 1/4-20 x 1.0
26	726-3054	U-type Speed Nut, 1/4-20
27	731-04179	Dash Panel (models w/o choke knob)
	731-04082	Dash Panel (models w/ choke knob)
28	746-04020A	Throttle / Choke Control, 18.5"
	746-04023A	Throttle Control, 35.5"
	746-04030A	Throttle Control, 18.5"
29	736-3090	Flat Washer, .260 x .720 x .060
30	726-0230	Cable Tie, 34.75
31	751-0555B	Fuel Tank, 1.5 gal.
32	751-0603	Fuel Tank Cap
33	746-0614A	Choke Control, 38"
	746-0616A	Choke Control, 23"
34	731-0954	Steering Bellow, 4.75"

NOTE: Tractor features vary by model. NOT all parts listed above and pictured on the previous page are standard equipment.

Models 662, 663, 682 & 683



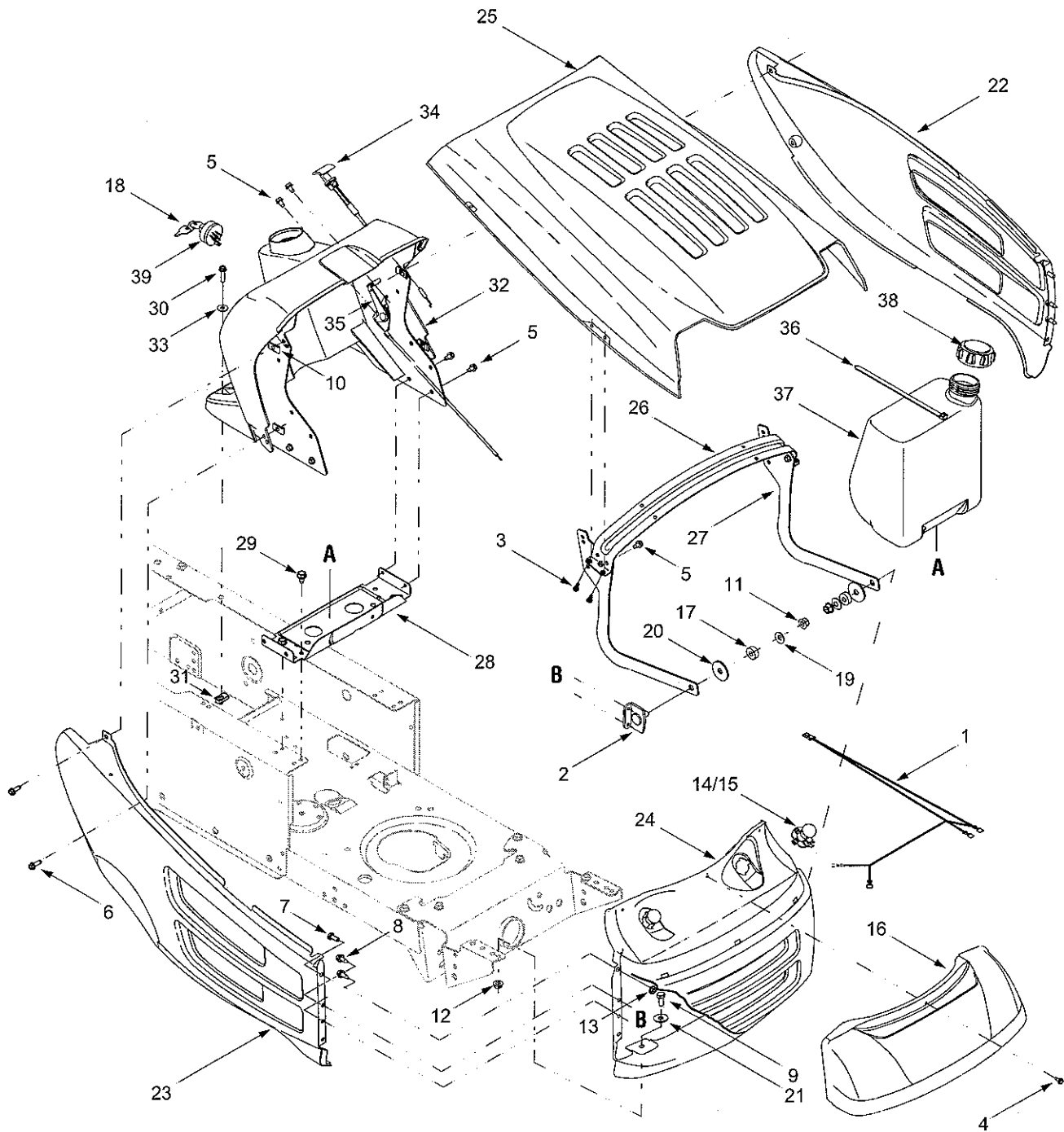
† Found on Models 662 & 682 Only
‡ Found on Models 663 & 683 Only

Models 662, 663, 682 & 683

REF. NO.	PART NO.	DESCRIPTION
1	629-0469B	Headlamp Harness Assembly
2	710-0642	Self-tapping Screw, 1/4-20 x .75
3	710-0751	Hex Screw, 1/4-20 x .620
4	710-3008	Hex Screw, 5/16-18 x .75
5	712-0185	U-type Speed Nut, 1/4-20
6	712-0429	Lock Nut, 5/16-18
7	712-3027	Lock Nut, 1/4-20
8	725-0963	Headlamp, 12V
9	725-1651	Headlamp Socket
10	726-04012	Push-on Nut, .25
11	728-0162	Flat-head Rivet, 1/4
12	731-1503A	Lens
13	736-3078	Flat Washer, 3/4 x 1.0 x .063
14	738-0952A	Shoulder Screw, 1/4-20 x .375 / .125
15	749-0722C	Grille Support Rod
16	783-0156B	Grille
17	783-0250A	Hood w/ Louvers
18	783-0366	RH Side Panel (Insert)
19	783-0367	LH Side Panel (Insert)
20	783-0150B	RH Side Panel
21	783-0367	LH Side Panel
22	725-1396	Ignition Switch, 6-pin
23	725-0201	Keys (pair)
24	746-0614A	Choke Control, 38"
	746-0616A	Choke Control, 23"
25	17632D	Battery Support Bracket
26	710-0599	Self-tapping Screw, 1/4-20 x .5
27	710-0607	Self-tapping Screw, 5/16-18 x .5
28	710-0788	Self-tapping Screw, 1/4-20 x 1.0
29	726-3054	U-type Speed Nut, 1/4-20
30	731-04179	Dash Panel (models w/o choke knob)
	731-04082	Dash Panel (models w/ choke knob)
31	746-04020A	Throttle / Choke Control, 18.5"
	746-04023A	Throttle Control, 35.5"
	746-04030A	Throttle Control, 18.5"
32	736-3090	Flat Washer, .260 x .720 x .060
33	726-0209	Cable Tie, 30.66
34	751-0555B	Fuel Tank, 1.5 gal.
35	751-0603	Fuel Tank Cap
36	731-0954	Steering Bellow, 4.75"

NOTE: Tractor features vary by model NOT all parts listed above and pictured on the previous page are standard equipment.

Models 668 & 688



Models 668 & 688

REF. NO.	PART NO.	DESCRIPTION
1	629-0469B	Headlamp Harness Assembly
2	683-0195	Bracket Assembly
3	710-0351	Screw, #10-16 x .50
4	710-0456	Screw, #10-16 x .50
5	710-0599	Self-tapping Screw, 1/4-20 x .5
6	710-0642	Self-tapping Screw, 1/4-20 x .75
7	710-0751	Hex Cap Screw: 1/4-20 x .625
8	710-0896	Hex Index Washer Screw, 1/4-14 x .0625
9	710-3008	Hex Screw, 5/16-18 x .75
10	712-0185	U-type Speed Nut, 1/4-20
11	712-0431	Flange Lock Nut, 3/8-16
12	712-0429	Lock Nut, 5/16-18
13	712-3027	Flange Lock Nut, 1/4-20
14	725-0963	Headlamp, 12V
15	725-1649	Headlamp Socket
16	731-1854A	Headlight Lens (8-style)
17	735-0126	Rubber Washer, 87 x .33
18	725-0201	Keys (pair)
19	736-0300	Flat Washer, 406 x .875 x .059
20	736-3039	Flat Washer, 406 x 1.5 x 11 gauge
21	736-3078	Flat Washer, 344 x 1.0 x .063
22	783-0475B	LH Side Panel
23	783-0476C	RH Side Panel
24	783-0477A	Grille
25	783-0478B	Hood
26	783-0553A	Hood Support Bracket
27	783-1495	Hood Side Bracket
28	17632D	Battery Support Bracket
29	710-0607	Self-tapping Screw, 5/16-18 x .5
30	710-0788	Self-tapping Screw, 1/4-20 x 1.0
31	726-3054	U-type Speed Nut, 1/4-20
32	731-04180	Dash Panel (models w/o choke knob)
	731-04080A	Dash Panel (models w/ choke knob)
33	736-3090	Flat Washer, 260 x .720 x .060
34	746-0614A	Choke Control, 38"
	746-0616A	Choke Control, 23"
35	746-04020A	Throttle / Choke Control, 18 5"
	746-04023A	Throttle Control, 35 5"
	746-04030A	Throttle Control, 18 5"
36	726-0209	Cable Tie, 30.66
37	751-0555B	Fuel Tank, 1 5 gal.
38	751-0603	Fuel Tank Cap
39	725-1396	Ignition Switch, 6-pin

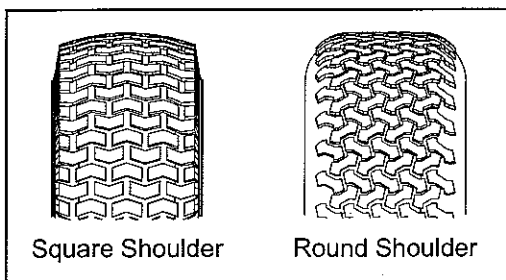
NOTE: Tractor features vary by model. NOT all parts listed above and pictured on the previous page are standard equipment.

This technical drawing is an exploded view of a mechanical assembly, likely a small vehicle or a specialized machine. The components are numbered 1 through 44. The main body is a rectangular frame (17) with various mounting points. A steering wheel (35) is connected to the frame via a steering column (24). A seat (37) is positioned behind the frame. The front of the assembly features a large wheel (38) and a smaller wheel (12). A long horizontal beam (26) is attached to the side of the frame. Various bolts, nuts, and washers (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 27, 28, 29, 30, 31, 32, 33, 34, 36, 39, 40, 41, 42, 43, 44) are shown in their respective assembly positions. A handle (3) is attached to the front of the frame. A bracket (34) is mounted on the side. A small component (37) is shown above the frame. A large wheel (38) is at the bottom left. A smaller wheel (12) is at the bottom right. A long horizontal beam (26) is attached to the side of the frame. Various bolts, nuts, and washers (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 27, 28, 29, 30, 31, 32, 33, 34, 36, 39, 40, 41, 42, 43, 44) are shown in their respective assembly positions.

Models 660 – 688

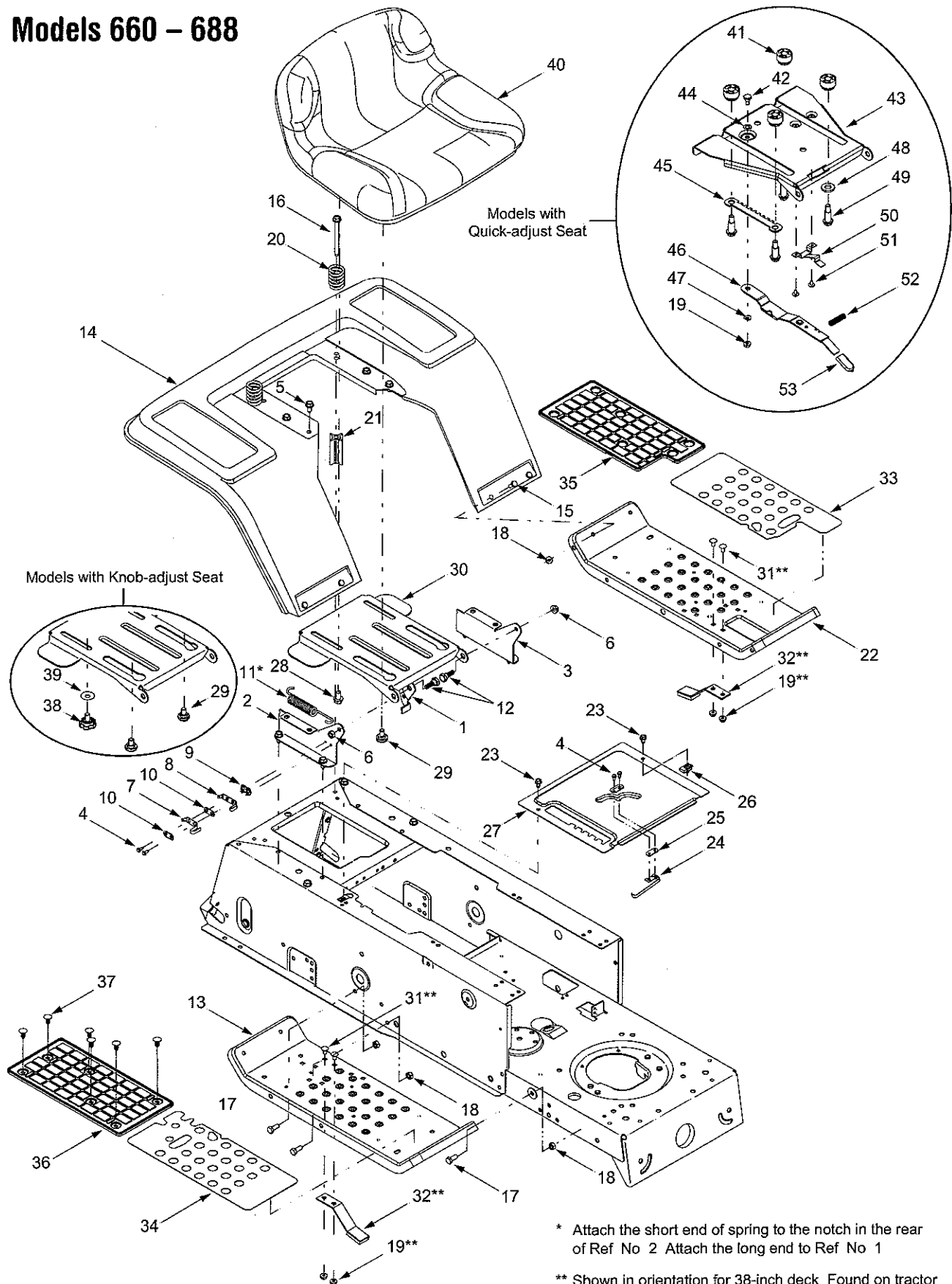
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	17198A	Retainer Gear Segment Plate	26	741-0487A	Flange Bushing, .632 ID
2	683-0002A	Pivot Bar, .625	27	741-0656	Hex Flange Bearing, 5/8
3	710-0514	Hex Cap Screw, 3/8-16 x 1 0	28	747-04008	Tie Rod, Non-adjustable
4	710-0643	Hex Cap Screw, 5/16-18 x 1 0	29	747-1268B	Steering Drag Link, 7/16-20
5	710-0726	Self-tapping Screw, 5/16-12 x .75	30	748-0389	Cap, 1.25 x 16
6	710-0805	Hex Cap Screw, 5/16-18 x 1.5	31	748-04014B	Steering Arm
7	710-1309	Machine Screw, 5/16-18 x .75	32	748-04020	Spacer, 1.0 x .645 x .56
8	712-0240	Jam Nut, 7/16-20 (Grade 2)	33	750-0535	Spacer, 380 x .625 x .21
9	712-0262	Jam Nut, 3/8-24	34	783-0041D	Pivot Bar Bracket
10	712-0431	Flange Lock Nut, 3/8-16	35	631-04028	Steering Wheel, Three Spoke
11	712-3004A	Flange Lock Nut, 5/16-18		631-04008	Steering Wheel, Three Spoke Soft Grip
12	714-0470	Cotter Pin, 1/8 x 1.25	36	731-04058	Axle End Cap, w/ Fitting
13	717-1757A	Steering Segment Gear	37	731-04064	Steering Wheel Cap, Large
14	723-0448A	Ball Joint, 7/16 -20		731-04065	Steering Wheel Cap w/ Sprig, Large
15	726-0214	Push Cap, .625	38	634-0056A	Round Shoulder Wheel Ass'y Complete
16	731-04057A	Axle End Cap, Standard		634-0105A	Square Shoulder Wheel Ass'y Complete
17	736-0187	Flat Washer, 64 x 1.24 x .060		634-0115	Square Shoulder Wheel Ass'y Complete
18	731-2290A	Deluxe Hub Cap	39	683-04016	RH Axle Assembly
19	736-0242	Bell Washer, 34 x .872 x .060		683-04015	LH Axle Assembly
20	736-0356	Bell Washer, 391 x .380 x .062		683-04014	RH Axle Ass'y (models with 46-in Deck)
21	731-04039	Steering Wheel Cap, Small		683-04013	LH Axle Ass'y (models with 46-in Deck)
	731-04040	Steering Wheel Cap w/ Sprig, Small	40	731-0484A	Hub Cap
22	738-0141	Shoulder Screw, .435 x .350, 5/16-18	41	736-0162	Flat Washer, 64 x 1.0 x .12
23	738-0527	Shoulder Screw, .498 x 2.045	42	736-0285	Flat Washer, 635 x 1.589 x .06
24	738-0919	Steering Shaft, 21 86	43	747-04057	Tie Rod, Adjustable
25	741-0475	Plastic Bushing, .38 ID	44	711-04059	Ferrule, 3/8-24 x .437 Dia

	Wheel Ass'y Complete	Rim Assembly	Inner Bearing	Outer Bearing	Tire Only	Air Valve
Round Shoulder	634-0056A	634-0172	741-0706 (Flange w/ Fitting)	741-0487A (Plastic Flange)	734-0864 (15 x 6 x 6)	734-0255
Square Shoulder	634-0105A	634-0172	741-0706 (Flange w/ Fitting)	741-0487A (Plastic Flange)	734-1731 (15 x 6 x 6)	734-0255
Square Shoulder	634-0115	634-0051	741-0569 (Ball Bearing)	741-0569 (Ball Bearing)	734-1731 (15 x 6 x 6)	734-0255



NOTE: Tractor features vary by model NOT all parts listed above and pictured on the previous page are standard equipment.

Models 660 – 688



* Attach the short end of spring to the notch in the rear of Ref No 2 Attach the long end to Ref No 1

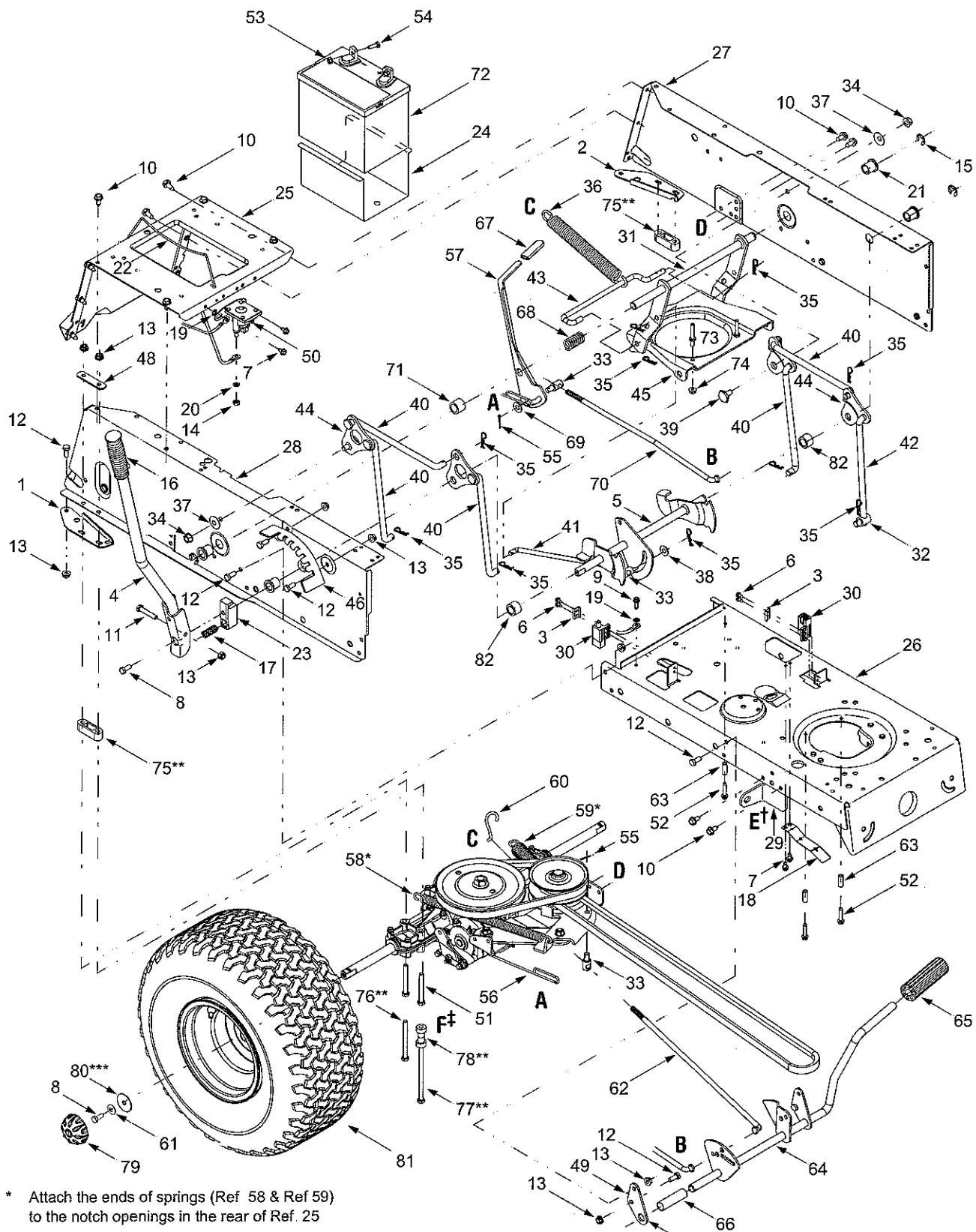
** Shown in orientation for 38-inch deck Found on tractor models with 38- or 42-inch deck only.

Models 660 – 688

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	17239C	Seat Lift Bracket	28	710-0870	Screw, 3/8-16 x .625
2	17950A	RH Pivot Support Bracket, Seat	29	738-04012	Shoulder Screw, .625 x .175, 3/8-16
3	17951A	LH Pivot Support Bracket, Seat	30	783-04081A	Seat Pivot Bracket, Manual Adjust
4	710-0227	Self-tapping Screw, #8-18 x .50	31	710-0167	Carriage Screw, 1/4-20 x .50
5	710-0726	Self-tapping Screw, 5/16-12 x .75	32	761-0168B	Blade Spindle Brake Assembly
6	712-0429	Lock Nut, 5/16-18	33	723-04012	LH Abrasive Foot Pad
7	725-1303	Outer Seat Spring Switch	34	723-0422C	RH Abrasive Foot Pad
8	725-1439	Inner Seat Spring Switch	35	735-04009	LH Rubber Foot Pad
9	726-0278	Insulator Plate Boss	36	735-0196	RH Rubber Foot Pad
10	726-0279	Insulator Plate	37	726-3046	Ratchet Clip, .250 Dia
11	732-0581B	Extension Spring, .75 x 5.31	38	720-04009	Knob, 3/8-16 X .625
12	738-0296	Shoulder Screw, .437 x .286	39	736-0219	Bell Washer, .389 x 1.120 x .030
13	17770H	Running Board	40	757-04021	Low Back Seat, Black
14	17870C	Fender		757-04020	Medium Back Seat, Black
15	710-0751	Hex Screw, 1/4-20 x .620	41	731-04074	Spacer
16	710-1208	Self-tapping Screw, 5/16-18 x 3.5	42	712-0137A	Shoulder Screw, .340 x .285, 1/4-20
17	710-3008	Hex Screw, 5/16-18 x .75	43	783-0738A	Seat Pivot Bracket, Quick-Adjust
18	712-0429	Nylon Lock Nut, 5/16-18	44	736-0204	Flat Washer, .344 x .62
19	712-3027	Flange Lock Nut, 1/4-20	45	783-0753	Seat Select Bracket
20	732-04038	Compression Spring, 1.314 x 1.8	46	783-0739	Seat Adjustment Lever
21	750-04212	Spacer	47	736-0175	Spring Washer
22	783-04139A	LH Running Board	48	736-3019	Flat Washer, .531 x 1.062 x .134
23	710-0599	Self-tapping Screw, 1/4-20 x .5	49	738-0966	Shoulder Screw, .50 x .925, 3/8-16
24	725-1643	Spring Switch, Long	50	783-0611	Seat Stop
25	726-0320	Insulator Nut Plate	51	710-1268	Screw, #10-16 x .375
26	726-3054	U-Clip Nut, 1/4-20	52	732-0499	Compression Spring
27	783-04060A	Shift Cover Panel, 6-speed	53	720-0309A	Grip
	783-04050A	Shift Cover Panel, 8-speed	54	732-0735	Compression Spring, 1.314 x 2.55

NOTE: Tractor features vary by model. NOT all parts listed above and pictured on the previous page are standard equipment.

Models 660 - 688



* Attach the ends of springs (Ref 58 & Ref 59) to the notch openings in the rear of Ref. 25

** Found on tractor models with 46-inch deck only.

*** Used on tractor models with Deluxe hub cap only

† Refer to E† on Page 18 & Page 20

‡ Refer to F‡ on Page 20

Models 660 – 688

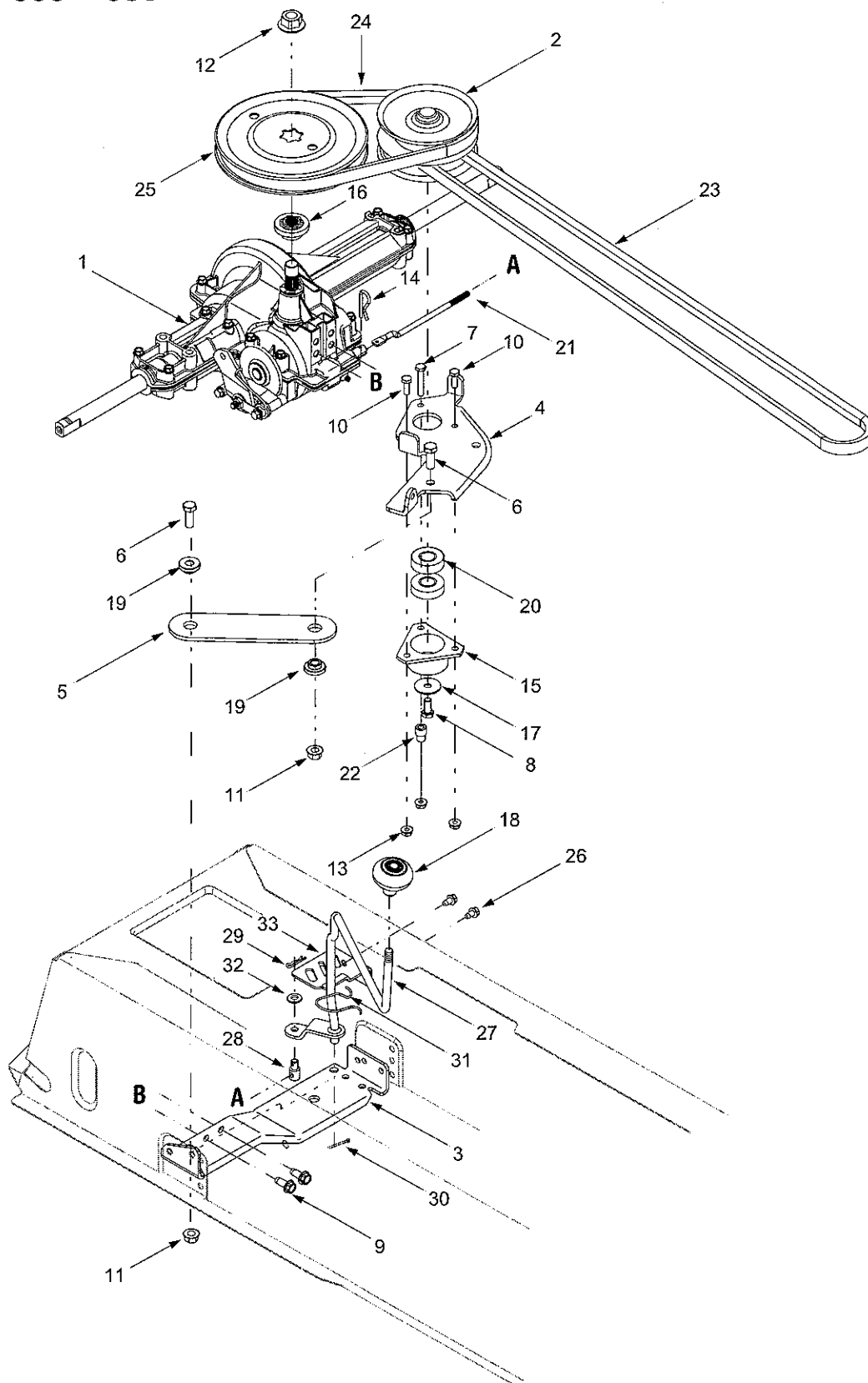
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	17668A	RH Axle Support Bracket	44	748-04307	Lift Link
2	17669A	LH Axle Support Bracket	45	783-04093	Stabilizer Bracket (46-inch Decks)
3	17962	Switch Plate		783-04294	Stabilizer Bracket (38- and 42-inch Decks)
4	683-04025	Lift Handle Assembly	46	783-04113	Deck Lift Index Bracket
5	683-04049	Lift Shaft Assembly	47	17630A	Shift Lever Retainer
6	710-0224	Self-tapping Screw, #10-16 x .5	48	17840	Transaxle Mounting Bracket
7	710-0599	Self-tapping Screw, 1/4-20 x .5	49	17860	Pedal Mounting Bracket
8	710-0627	Hex Cap Screw, 5/16-24 x .75	50	725-1426	Solenoid
9	710-0642	Self-tapping Screw, 1/4-20 x .75	51	710-0176	Hex Cap Screw, 5/16-18 x 2.75
10	710-0726	Self-tapping Screw, 5/16-12 x .75	52	710-0809	Self-tapping Screw, 1/4-20 x 1.25
11	710-3180	Hex Cap Screw, 5/16-18 x 1.75	53	712-0271	Hex Sems Nut, 1/4-20
12	710-3008	Hex Screw, 5/16-18 x .75	54	710-3015	Hex Screw, 1/4-20 x .75
13	712-0429	Lock Nut, 5/16-18	55	714-0111	Cotter Pin, 10
14	712-3006	Hex Nut, 1/4-20	56	732-04029	Extension Spring, 59 x 12 38
15	716-0106A	E-Ring, .625 Dia Shaft	57	783-04059	Speed Select Lever
16	720-0233	Handle Grip	58	732-04075A	Extension Spring, 73 x 12 54
17	732-0369	Compression Spring, 55 x 1.37	59	732-04076	Extension Spring, 1 15 x 7.90
18	732-0750A	Switch Actuator Spring	60	732-0722A	Brake Return Spring
19	736-0222	External Lock Washer, 1/4	61	736-0242	Bell Washer, 34 x .872 x .060
20	736-0329	Lock Washer, 1/4	62	747-04043	Variable Speed Control Rod
21	741-0487A	Flange Bearing, 632 ID	63	750-0566A	Spacer, .260 x .372 x 1.030
22	747-04031	Battery Hold-down Rod	64	683-04005A	Clutch / Brake Pedal Assembly
23	748-04011A	Lift Shaft Connector	65	735-0196	Foot Pad, 4.6
24	783-0345	Battery Tray	66	750-0802	Spacer, 640 x 76 x 2.63
25	783-0355D	Hitch Plate	67	720-04008	Shift Handle Grip
26	783-04011A	Lower Frame	68	732-04017	Compression Spring, .89 x 1.75
27	783-04031	LH Upper Frame Side Panel	69	736-0300	Flat Washer, 406 x .875 x .059
28	783-04032	RH Upper Frame Side Panel	70	747-04039	Speed Control Rod
29	783-04213	Deck Anti-sway Bracket	71	750-04080	Spacer, .640 x 1.0 x .78
30	725-04039	Screw-mount Interlock Switch	72	725-1706A	Battery, 270 CCA
31	683-04048A	Stabilizer Shaft Assembly		725-1737A	Battery, 190 CCA
32	711-04036	Ferrule, 1/2-20 x .50	73	712-3027	Flange Lock Nut, 1/4-20
33	711-04075A	Ferrule, 3/8-24 x .375	74	711-0993	Belt Guard Pin, 1/4-20
34	712-0130	Lock Nut, 3/8-16	75	749-0334	Spacer
35	714-04023	Internal Cotter Pin, .080 x 1.56	76	710-1266	Hex Cap Screw, 5/16-18 x 3.25
36	732-04050A	Extension Spring, 1 07 x 9 52	77	710-0833	Hex Cap Screw, 5/16-18 x 5.25
37	736-0219	Bell Washer, .389 x 1.12 x .030	78	748-04021A	Shoulder Spacer
38	736-0267	Flat Washer, .385 x .87 x .060	79	731-2290A	Deluxe Hub Cap
39	738-0322	Shoulder Bolt, 625 x .217	80	736-0430	Flat Washer, .350 x 1.59 x .062
40	747-04018A	Deck Hanger Link	81	734-1675	Round Shoulder Wheel Ass'y Complete
41	747-04040A	Deck Disengagement Rod		634-0104	Square Shoulder Wheel Ass'y Complete
42	747-04069A	Deck Hanger Link	82	748-04037	Spacer, 635 x 1.0 x .696
43	747-04115A	Stabilizer Rod (46-inch Decks)			
	747-04157	Stabilizer Rod (38- and 42-inch Decks)			

	Wheel Ass'y Complete	Rim Assembly	Tire Only	Air Valve
Round Shoulder*	734-1675	634-0070	734-1596 (20 x 8 x 8)	734-0255
Square Shoulder*	634-0104	634-0070	734-1730 (20 x 8 x 8)	734-0255

* See illustration on Page 3

NOTE: Tractor features vary by model. NOT all parts listed above and pictured on the previous page are standard equipment.

Models 660 – 688

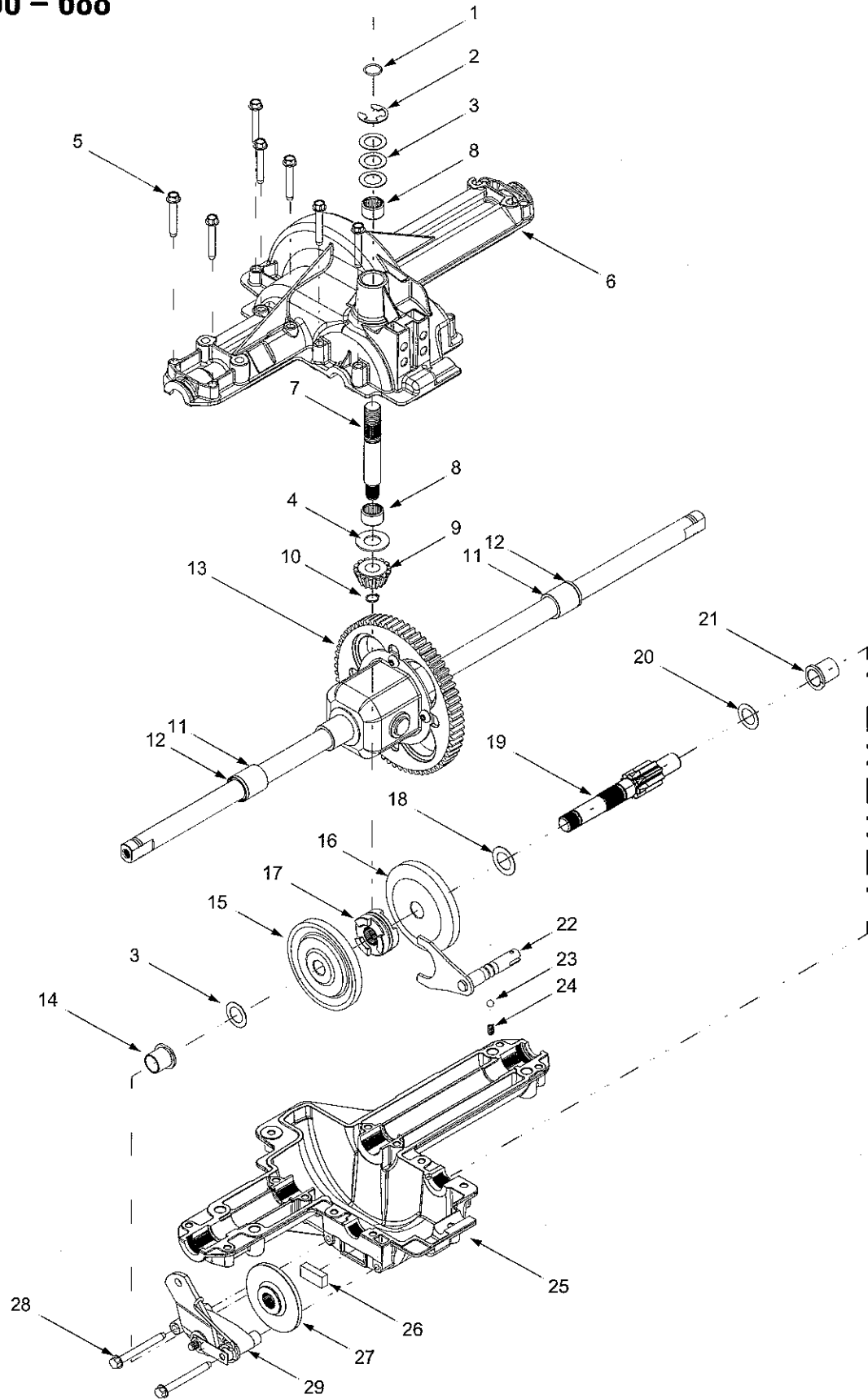


Models 660 – 688

REF. NO.	PART NO.	DESCRIPTION
1	618-04034	Transmission, Single-speed
2	656-0059A	Variable-speed Pulley, 4 75
3	683-04055A	Torque Bracket
4	683-04056	Variable-speed Bracket
5	683-04057	Variable-speed Bracket
6	710-0514	Hex Cap Screw, 3/8-16 x 1.0
7	710-0606	Hex Cap Screw, 1/4-20 x 1.5
8	710-0627	Hex Cap Screw, 5/16-24 x .75
9	710-1260A	Screw, 5/16-18 x .75
10	710-3015	Hex Screw, 1/4-20 x .75
11	712-0431	Flange Lock Nut, 3/8-16
12	712-0700	Flange Nut, 9/16-18
13	712-3027	Flange Lock Nut, 1/4-20
14	714-0209	Internal Cotter Pin, 125
15	718-04012	Bearing Cup
16	718-0758A	Pulley Hub, 5/8 Spline
17	736-0362	Flat Washer, 320 x 1.25 x .06
18	720-04028	Shift Knob
19	738-0372B	Shoulder Spacer, 1.0 x .38 x .38
20	741-0600	Ball Bearing, 17 x 40 x 12
21	747-04072	Shift Rod
22	750-04099	Stepped Spacer
23	754-04001A	Lower Drive Belt
24	754-04002	Upper Drive Belt
25	756-04002	Transmission Pulley, 7.25
26	710-0599	Self-tapping Screw, 1/4-20 x .5
27	647-04019	Shift Lever Assembly
28	711-0736	Ferrule, 1/4-20 x 1.0
29	714-0104	Cotter Pin, 1 13
30	714-0470	Cotter Pin, 1 25
31	732-04067	Spring Compression Clip
32	736-0275	Flat Washer, 344 x .688 x .065
33	17630A	Shift Lever Retainer

NOTE: Tractor features vary by model. NOT all parts listed above and pictured on the previous page are standard equipment

Models 660 – 688



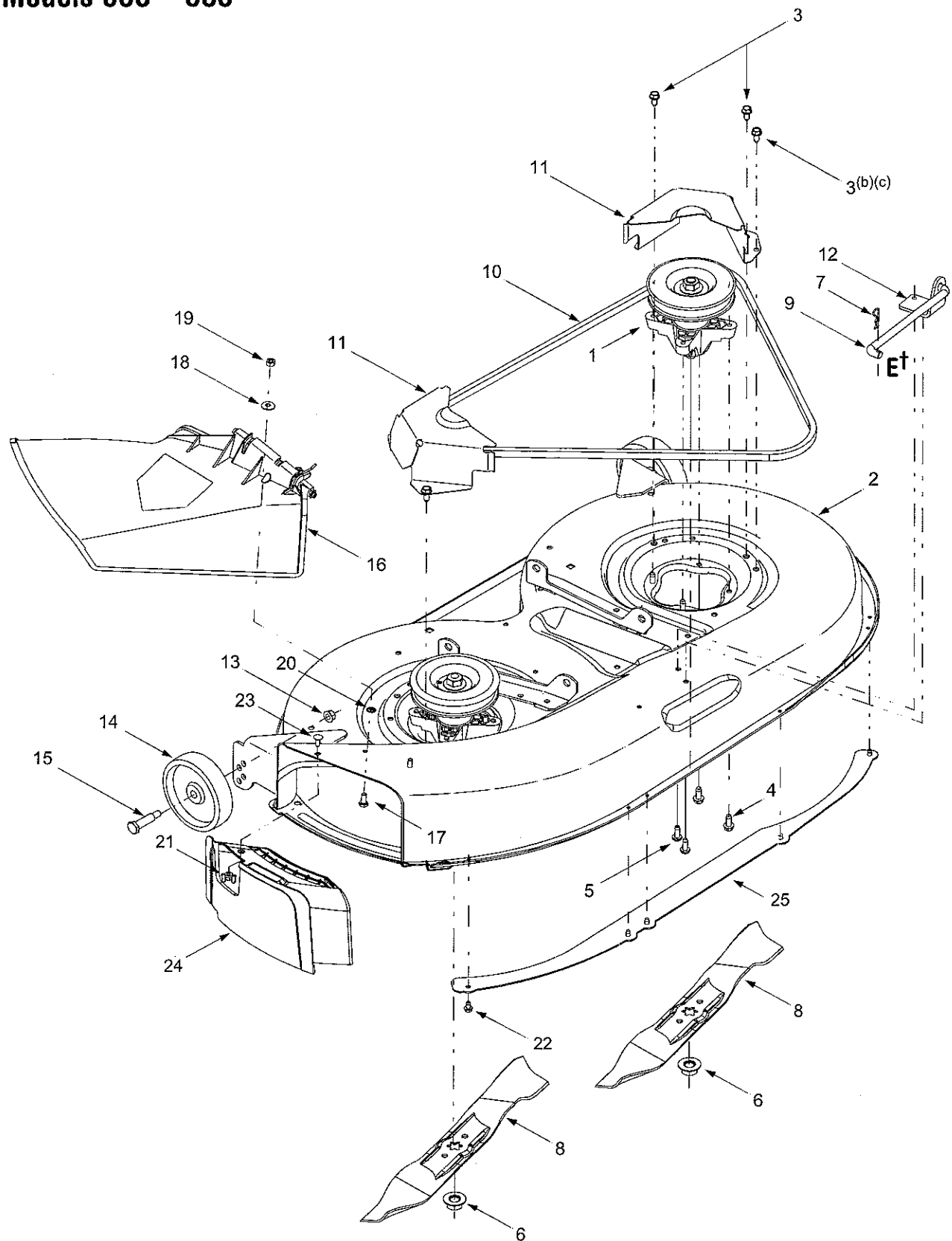
Models 660 – 688

REF. NO.	PART NO.	DESCRIPTION
1	732-0614	Ring, Wire
2	716-0231	Ring, E Type, .750
3	736-0336	Flat Washer, 5/8 x 1 0 x .030*
	736-0337	Flat Washer, 5/8 x 1 0 x .040*
	736-0349	Flat Washer, 5/8 x 1 0 x .020*
4	736-0335	Washer, Thrust 635 x 1.26 x .06
5	710-1325	Self-tapping Screw, 1/4-20 x 1 625
6	719-04017	Upper Housing
7	711-1109	Input Shaft
8	741-0335	Needle Bearing, 625 x .813 x .495
9	717-1464	14-tooth Bevel Pinion
10	716-0108	Retaining Ring, .437
11	741-0340	Sleeve Bearing, .75 x 1 0 x 1 0
12	721-0338	Seal, 75 x 1 0 x .125
13	618-04041	Differential Assembly
14	741-0336	Flange Bearing, 5/8 x 3/4 x 3/4
15	717-1362	42-tooth Bevel Gear
16	717-1363	42-tooth Bevel Gear
17	718-0228	Clutch Collar
18	736-0519	Flat Washer, 70 x 1.125 x .031
19	711-04053	Drive Shaft
20	736-0495	Thrust Washer, 1.0 x .632 x 0
21	741-0337	Flange Bearing, 5/8 x 3/4 x 15/16
22	611-0011	Detent Shaft Assembly
23	741-0862	Detent Ball
24	732-0863	Compression Spring
25	719-04018	Lower Housing
26	717-0678	Brake Puck
27	761-0202	Brake Disc
28	710-1206	Self-tapping Screw, 1/4-20 x 2 375
29	661-0001	Brake Assembly
—	737-0148	Grease (19 oz.)

*Use applicable flat washer (12a, 12b or 12c) in this application allowing .0150/.0020 in. end-play

NOTE: If rebuilding the upper housing, include two ounces (2 oz.) of Unirex® N3 grease (Part No 737-0289) in the input shaft cavity.

Models 660 – 688



† Refer to E† on Page 12

Models 660 – 688

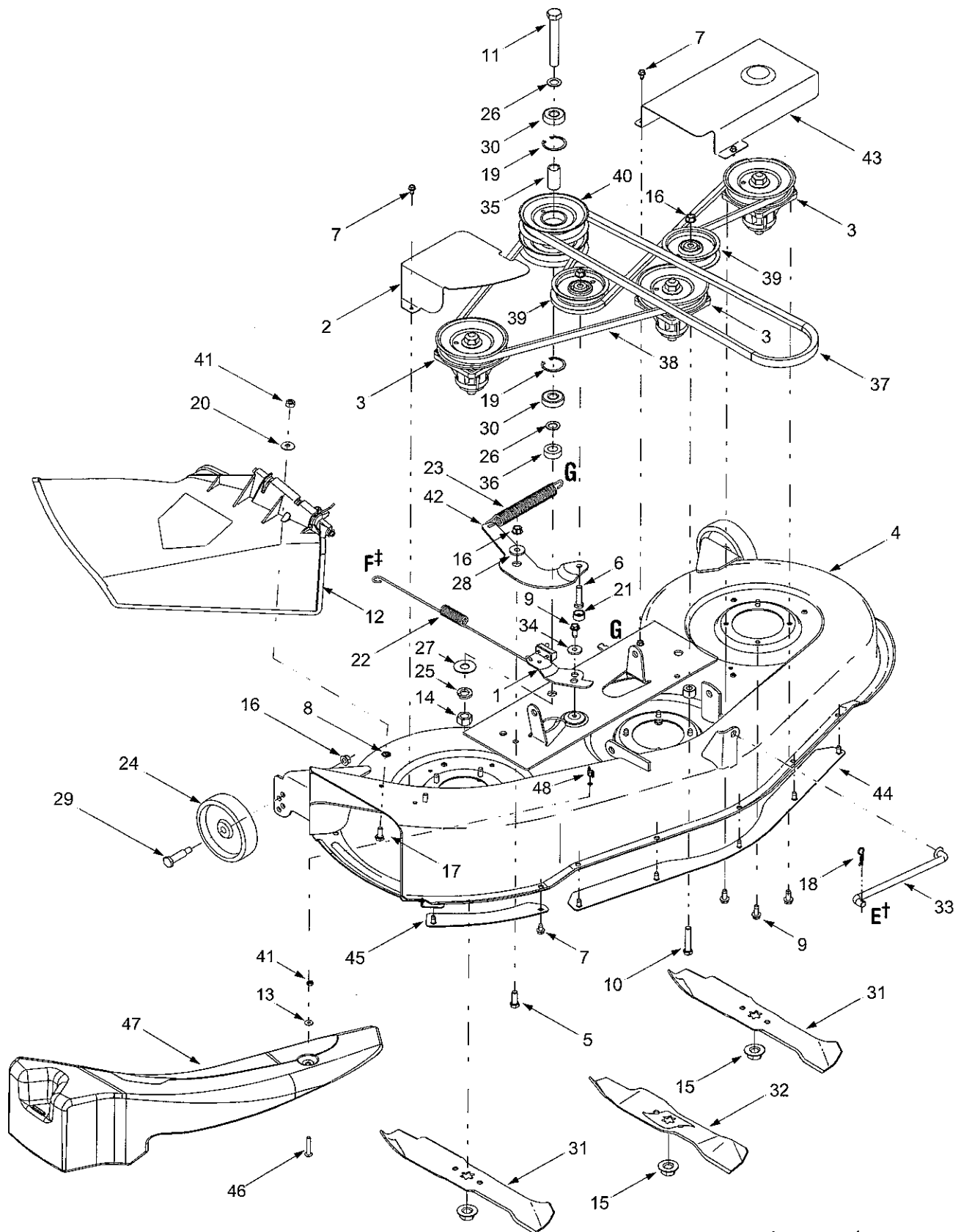
REF. NO.	PART NO.	DESCRIPTION
1	618-0138A	Spindle Assembly (a)
	618-0142A	Spindle Assembly (b) (c)
2	683-04003A	Deck Shell (a)
	683-04004A	Deck Shell (b)
	683-04035A	Deck Shell (c)
3	710-0726	Self-tapping Screw, 5/16-12 x .75
4	710-1260A	Screw, 5/16-18 x .75
5	710-1616A	Self-tapping Screw, 5/16-18 x .75
6	712-0417A	Hex Flange Nut, 5/8-18
7	714-04023	Internal Cotter Pin, .080 x 1.56
8	742-0610A	Blade, 19 3/8" (a)
	742-0616A	Blade, 21 23 (b) (c)
9	747-04018A	Deck Hanger Link/Anti-sway Rod
10	754-0329A	Deck Belt (a)
	754-0371A	Deck Belt (b) (c)
11	783-04148A	Belt Cover (a)
	783-04149B	Belt Cover (b) (c)
12	783-04211	Anti-sway Stabilizer Bracket
13	712-0431	Flange Lock Nut, 3/8-16 (c)
14	734-0973	Deck Wheel, 5 x 1.38 (c)
15	738-0373	Shoulder Screw, .498 x 1.53 (c)
16	731-1032B	Discharge Chute Assembly
17	710-0751	Hex Cap Screw: 1/4-20 x .620
18	736-0270	Bell Washer, .265 x .75 x .062
19	712-3006	Hex Nut, 1/4-20
20	726-0233	Push Nut, 1/4
21	712-3087	Wing Nut, 1/4-20
22	710-0599	Self-tapping Screw, 1/4-20 x .5
23	710-0134	Carriage Screw, , 1/4-20 x .62
24	731-2363	Mulch Plug
25	783-1146A	Deck Skirt (b) (c)

- (a) Tractor models with 38-inch Deck Only
- (b) Tractor models with 42-inch Deck Only
- (c) Tractor models with 42-inch Deck w/ Deck Wheels Only

IMPORTANT: For a proper working machine, use Factory Approved Parts. **V-belts** are designed to engage and disengage safely. A substitute (non OEM) V-belt can be dangerous by not disengaging completely.

NOTE: Tractor features vary by model. NOT all parts listed above and pictured on the previous page are standard equipment

Models 660 – 688



† Refer to E† on Page 12

‡ Refer to F‡ on Page 12

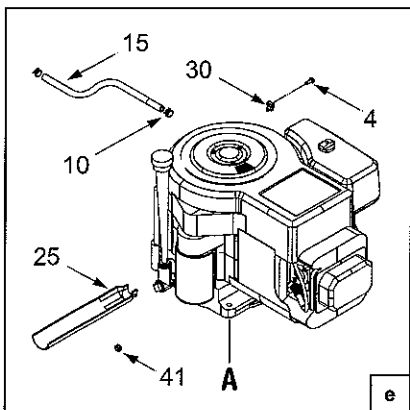
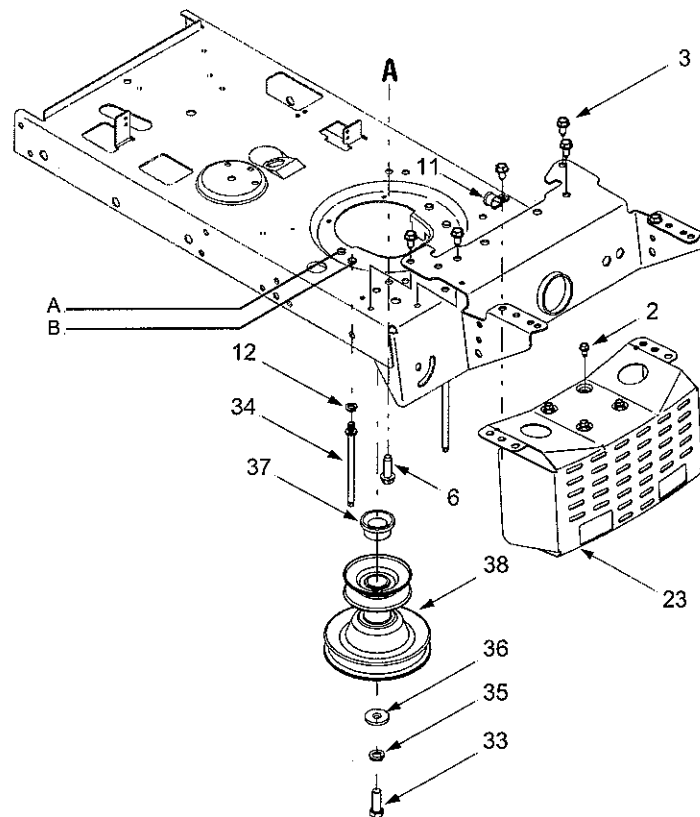
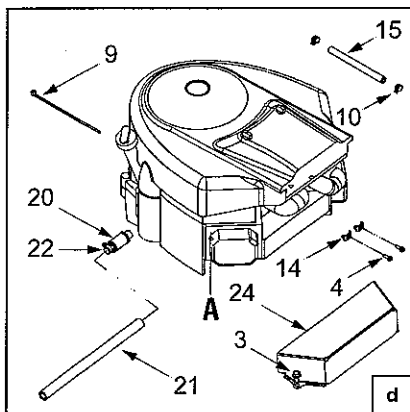
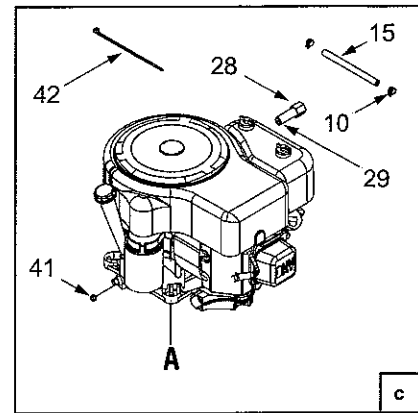
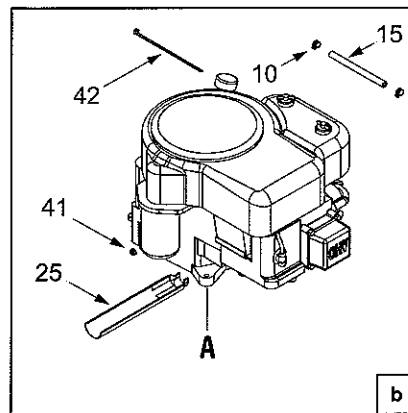
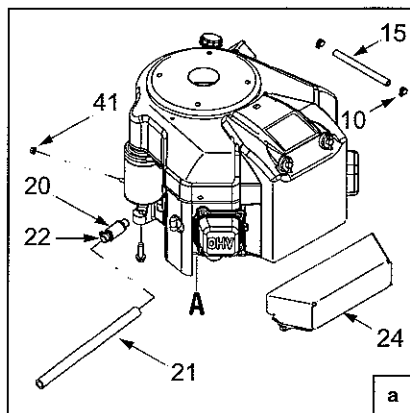
Models 660 – 688

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	17116	Deck Brake Assembly	25	736-0158	Lock Washer, 5/8
2	17258D	RH Belt Cover	26	736-0290	Flat Washer, 5/8
3	618-0240A	Spindle Assembly, 5 0 Dia	27	736-3088	Flat Washer, 1 585 x .635 x .062
	756-1187	Pulley Only	28	738-0347	Shoulder Spacer, 625 x 1.16
4	683-04133	46-inch Deck Shell	29	738-0373	Shoulder Screw, 498 x 1 53
5	710-0514	Hex Cap Screw, 3/8-16 x 1 0	30	741-0524	Bearing, 625 x 1 574 x 470
6	710-0520	Hex Cap Screw, 1/4-20 x 1 5	31	742-0611A	Three-in-one Blade, Star Center, 16 28"
7	710-0599	Self-tapping Screw, 1/4-20 x 5	32	742-0612A	Three-in-one Blade, Star Center, 14 88"
8	726-0233	Push Nut, 1/4	33	747-04018A	Deck Hanger Link/Anti-sway Rod
9	710-1260A	Screw, 5/16-18 x 75	34	748-0234	Shoulder Spacer
10	710-3144	Hex Cap Screw, 3/8-16 x 2.0	35	750-0932A	Spacer, 635 x .88 x 1.72
11	710-3151	Hex Cap Screw, 5/8-18 x .875	36	750-0960A	Spacer, 635 x 1 25 x 445
12	731-1032	Discharge Chute Assembly	37	754-0439	PTO Belt (Upper Deck Belt)
13	736-0173	Flat Washer, 28 X 74 X .063	38	754-0440	Deck Belt (Lower Deck Belt)
14	712-0337	Hex Nut, 5/8-18	39	756-0627B	Idler Pulley, 3 5
15	712-0417A	Hex Flange Nut, 5/8-18	40	756-0638	Double Pulley, 5 0
16	712-0431	Flange Lock Nut, 3/8-16	41	712-3006	Hex Nut, 1/4-20
17	710-0751	Hex Cap Screw: 1/4-20 x 620	42	783-0046	Idler Bracket
18	714-04023	Internal Cotter Pin, .080 x 1 56	43	783-0063A	LH Belt Cover
19	716-3020	Internal Retaining Ring	44	783-0141	Deck Skirt, Center
20	736-0270	Bell Washer, 265 x 75 x .062	45	783-0142	Deck Skirt, Right-hand
21	731-1490	Slide Cap	46	710-0578	Screw, 1/4-20 x 1 5
22	732-04047	Extension Spring, 788 x 15.5	47	731-1636	Mulch Plug
23	732-0594A	Extension Spring, 91 x 7 33	48	712-3087	Wing Nut, 1/4-20
24	734-0973	Deck Wheel, 5 x 1 38			

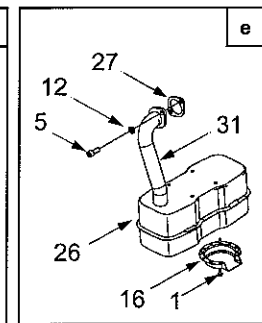
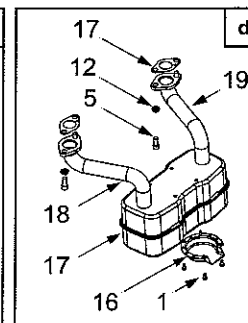
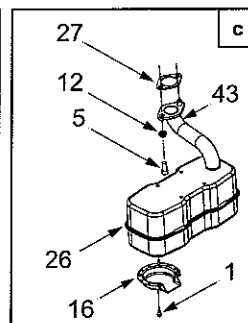
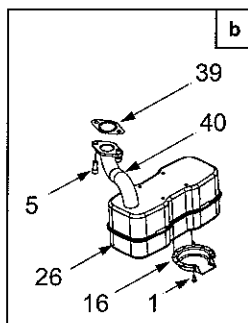
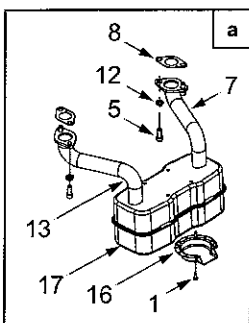
IMPORTANT: For a proper working machine, use Factory Approved Parts. **V-belts** are designed to engage and disengage safely. A substitute (non OEM) V-belt can be dangerous by not disengaging completely.

NOTE: Tractor features vary by model. NOT all parts listed above and pictured on the previous page are standard equipment.

Models 660 – 688



A Models with a 46-inch Deck
B Models with a 38- or 42-inch Deck



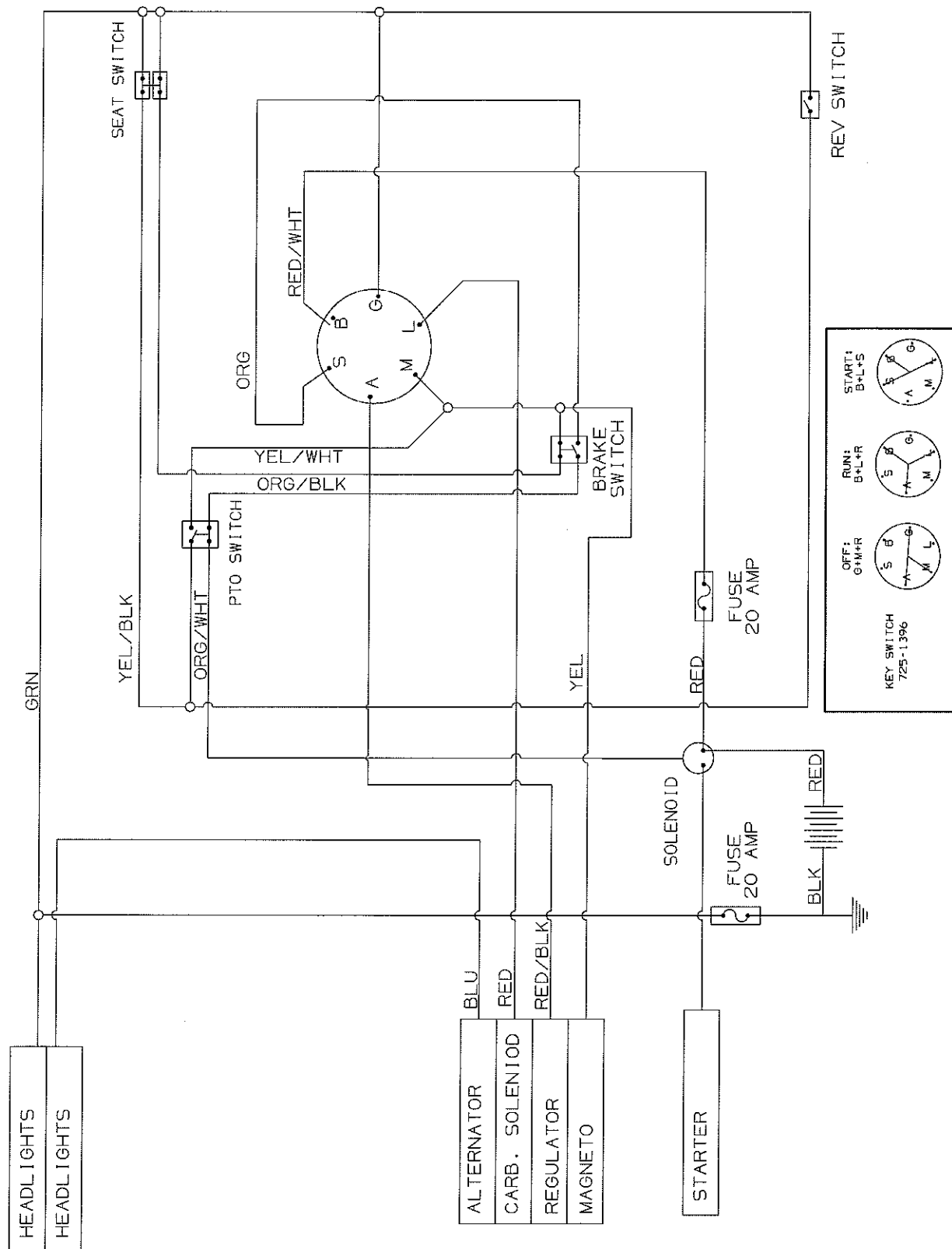
Models 660 – 688

REF. NO.	PART NO.	DESCRIPTION
1	710-0148	Screw, #8-32 x .375
2	710-0599	Self-tapping Screw, 1/4-20 x .5
3	710-0726	Self-tapping Screw, 5/16-12 x .75
4	710-1237	Screw, #10-32 x .625
5	710-1314A	Socket Cap Screw, 5/16-18 x .625
6	710-1315	Self-tapping Screw, 3/8-16 x 1.25
7	751-0813	LH Exhaust Pipe
8	721-0460	Exhaust Gasket
9	726-0154	Push-mount Cable Tie, 7.5
10	726-0205	Hose Clamp, .490
11	726-0272	Clamp, 9/16
12	736-0119	Lock Washer, 5/16
13	751-0813	RH Exhaust Pipe
14	751B221535	Casing Clamp
15	751-0535	Fuel Line Hose
16	751-0564A	Muffler Deflector
17	751-0616A	Muffler, Twin Inlet
18	751-0650A	RH Exhaust Pipe
19	751-0651A	LH Exhaust Pipe
20	751-3140	Oil Drain Valve
21	751-3141	Oil Drain Hose
22	751-3142	Oil Drain Cap
23	783-0615C	Muffler Heat Shield
24	783-0625C	Engine Heat Shield
25	731-1682A	Oil Drain Sleeve
26	751-0617A	Muffler, Single Inlet
27	721-0208	Exhaust Gasket
28	737-0143	Oil Drain Cap, 3/8-18
29	737-0199	Oil Drain Pipe, 3/8-16 x 2.0
30	751B213146	Casing Clamp
31	751-0619A	Exhaust Pipe
32	710-0227	Screw, #8-18 x .50
33	710-3029	Hex Screw, 7/16-20 x 1.25
34	711-1044	Belt Keeper Pin, 5/16 x 4.75
35	736-0171	Lock Washer, 7/16
36	736-0322	Flat Washer, .450 x 1.25 x .164
37	750-0956	Spacer, 1.0 x 1.4 x .825
38	756-04023	Engine Pulley, 3.12 x 5.56
39	721-0348	Exhaust Gasket
40	751-0620	Exhaust Pipe
41	712-0271	Hex Sems Nut, 1/4-20
42	725-0157	Cable Tie, 7.4"
43	751-0622	Exhaust Pipe

- (a) Tractor models with *Tecumseh* Twin-cylinder Engine
- (b) Tractor models with *Tecumseh* Single-cylinder Engine (16 HP - 18 HP)
- (c) Tractor models with *Tecumseh* Single-cylinder Engine (12 HP - 15 HP)
- (d) Tractor models with *Briggs and Stratton* OHV Twin-cylinder Engine
- (e) Tractor models with *Briggs and Stratton* OHV Single-cylinder Engine

NOTE: Tractor features vary by model NOT all parts listed above and pictured on the previous page are standard equipment.

Models 660 – 688



MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-9722