



PIÈCES DÉTACHÉES

Tondeuse autoportée



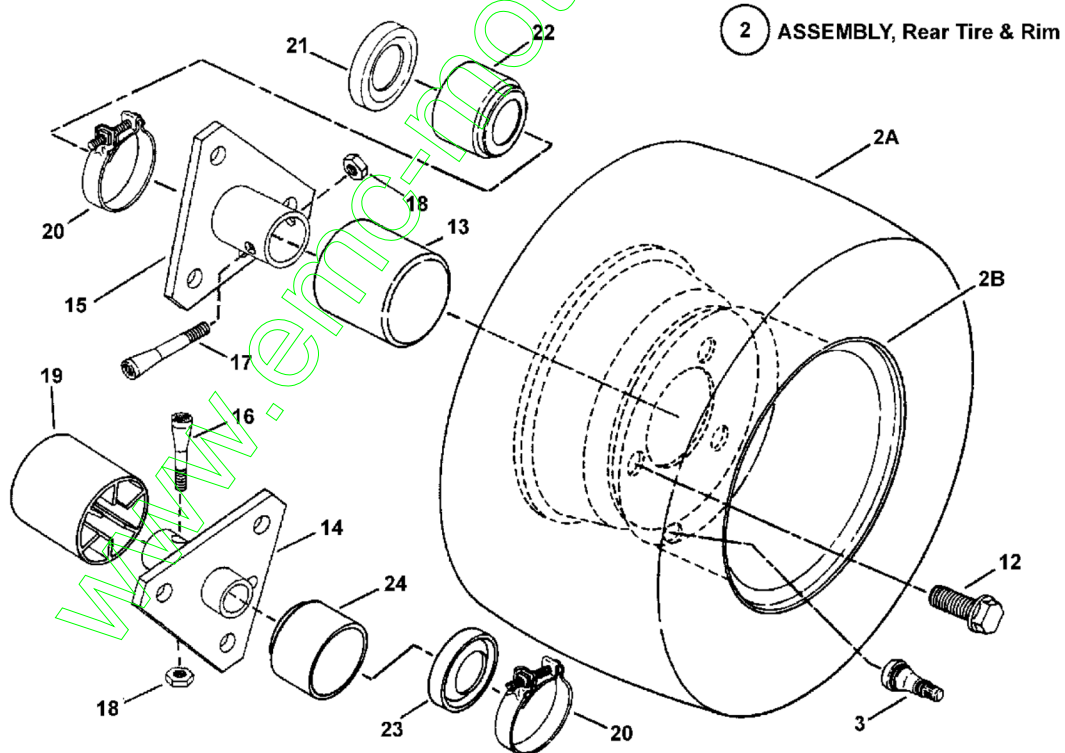
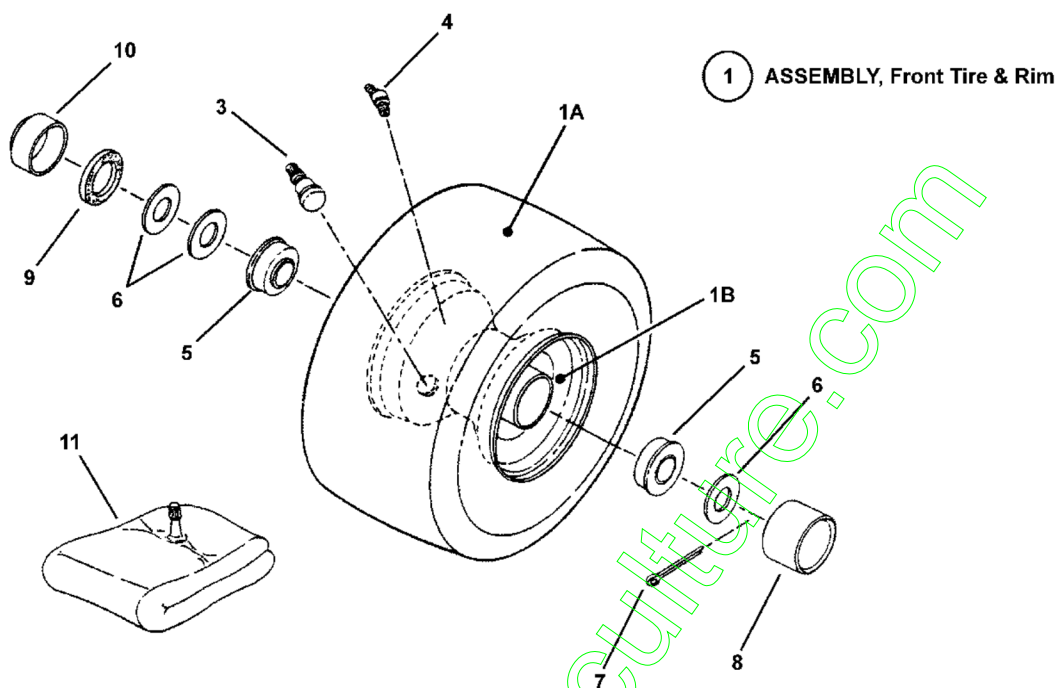
SN17/84



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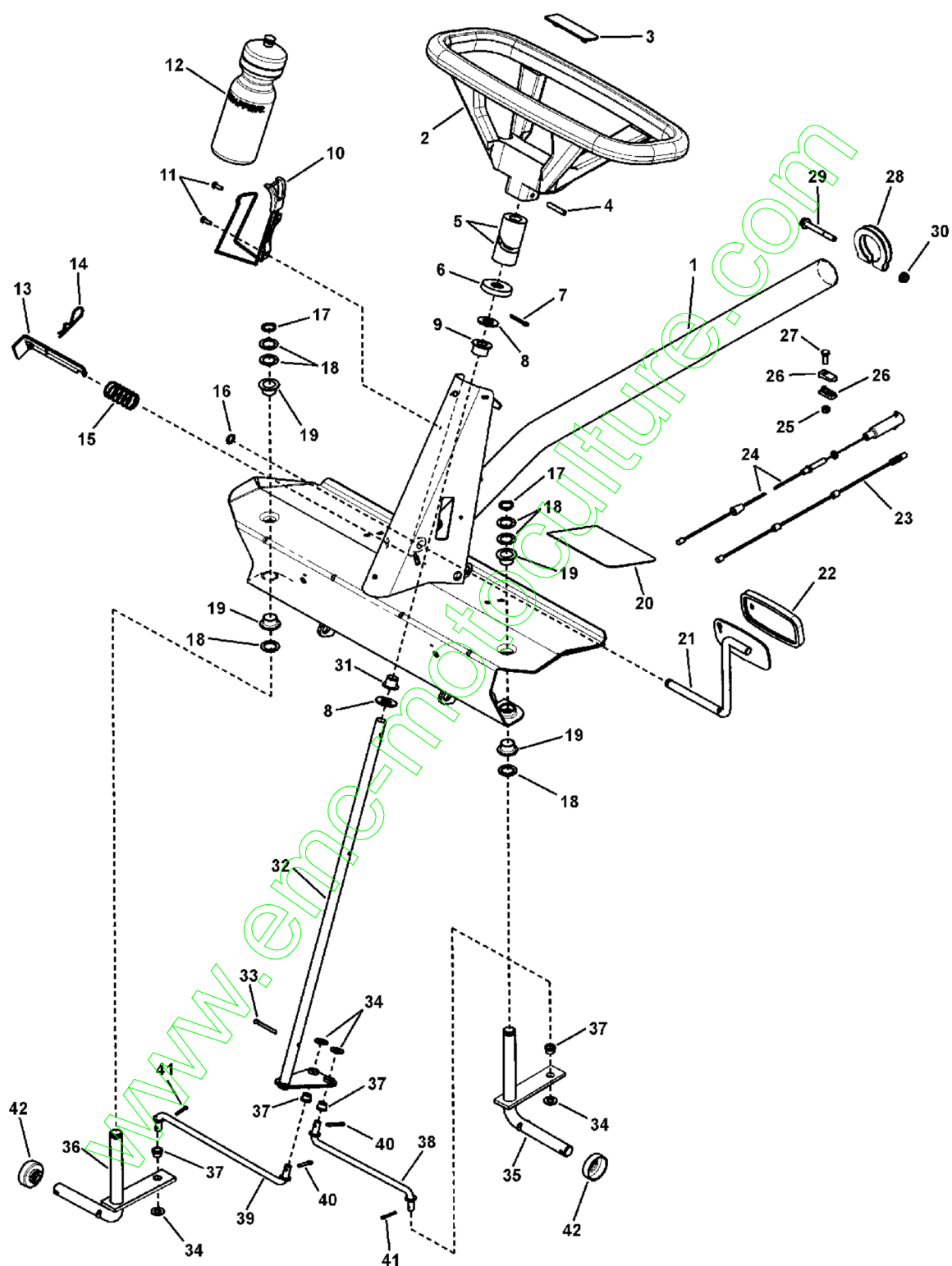
Wheels, Front & Rear Group

Item	Part No	Qty	Description
1	7058943	2	ASSEMBLY, Front Tire & Rim (Complete) (Includes Items 1A, 1B, 3, 4, & 5)
1A	7073563	1	TIRE, 11 x 4.00-4 (Kenda)
1B	7017146	1	RIM, (For 4.10/3.50 x 4 Tire)
2	7058951	2	ASSEMBLY, Rear Tire & Rim (Includes Items 2A, 2B & 3)
2A	7073584	1	TIRE, 16-6.50 x 8 (28" & 33" Models)
2B	7017147	1	RIM, Extra Wide (For 16/7.50 x 8 Tire)
3	7012234	1	VALVE STEM, Snap In
4	7014669	1	* LUBE Fitting, Straight (for 3/16" hole)
4	7076998	1	* LUBE Fitting, Straight (for 1/4" hole)
4	7010909	1	* LUBE Fitting, 90 Degree, Ball Check (for 1/4" hole)
4	7104428	1	* LUBE Fitting, 90 Degree, Ball Check (for 5/16" hole)
5	7011807	2	BALL BEARING, Flange (3/4" I.D.)
6	7010935	2	WASHER, .77 x 1.13 x .06 Flat
7	7091516	1	COTTER PIN, 5/32 x 1"
8	7011022	1	HUB CAP
9	7011032	1	FELT SEAL
10	7031038	1	CAP, Dust
11	7010821	1	TUBE, Inner (For 4.10/3.50 x 4 Tire)
12	7091502	3	BOLT, 1/2-20 x 3/4" Lug, GR 5
13	7023895	1	HUB CAP, R.H. (1.35" ID x 2.25") (Short Axle)
14	7040434	1	HUB, Wheel LH, 3 Hole 3/4" ID (per left rear tire ass'y)
15	7040433	1	HUB, Wheel RH, 3 Hole 1" ID (per right rear tire ass'y)
16	7011035	1	BOLT, 5/16-24 x 1-5/8" Tapered (Left Hand) (per left rear tire ass'y)
17	7011013	1	BOLT, 5/16-24 x 2" Tapered (Right Hand) (per right rear tire ass'y)
18	7092062	1	NUT, Hex Lock 5/16F GR.C YZ (was 7011201 (per rear tire ass'y))
19	7023522	1	HUB CAP, L. H. (.975" ID x 2.25") (Long Axle) (per left rear tire ass'y)
20	7012332	2	CLAMP, Boot, 2" (used on older models)
21	7011817	1	SEAL, 1.22" ID x 1.875" OD (used on older models)
22	7031732	1	CAP, Seal 1.0" ID x 1.67" OD (used on older models)
23	7014662	1	SEAL, OIL .750" ID x 1.832" OD (used on older models)
24	7014658	1	CAP, Seal 3/4" ID x 1.875" OD (used on older models)

Footnotes:

NOTE* Different size holes used, measure hole for proper fit.

Front End Assembly Group (Wide)

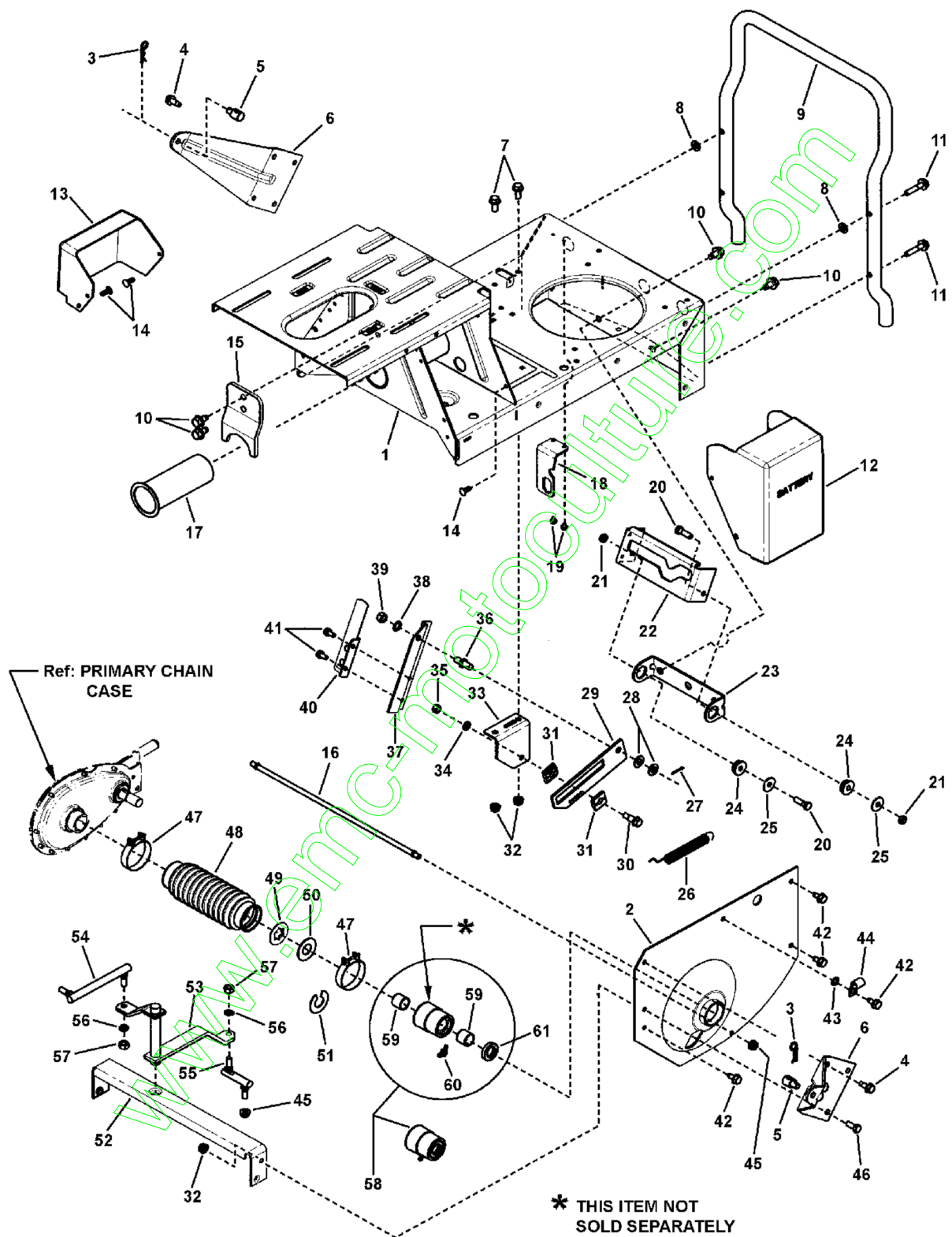


Front End Assembly Group (Wide)

Item	Part No	Qty	Description
1	7053266	1	WELDMENT, Front Axle, Wide
2	7058030	1	ASSEMBLY, Steering Wheel (for 5/8" shaft) (Includes item 3)
3	7023781	1	LOGO, Steering Wheel
4	7013862	1	ROLL PIN, 1/4 x 1-1/2"
5	7023667	1	FOAM COVER, Steering Shaft
6	7023671	1	COVER, Steering Shaft
7	7090296	1	PIN, 3/16 x 1" Cotter
8	7090183	2	WASHER, .66 x 1.31 x .09 Flat
9	7046158	1	BUSHING, Nylon
10	7074560	1	HOLDER, Bottle (Wire)
11	7090913	2	SCREW, #10-24 x 1/2" Hex Washer Self-Tap (Torx)
12	7074561	1	BOTTLE, Water
13	7038243D	1	LATCH, Parking Brake
14	7011714	1	HAIR PIN 2-1/4"
15	7015444	1	SPRING, Parking Brake Latch
16	7010776	1	RING, 1/2" External Retaining (Heavy Duty)
17	7010746	2	RING, 5/8" External Retaining
18	7010935	6	WASHER, .77 x 1.13 x .06 Flat
19	7010986	4	BEARING, Nylon
20	7104571	2	FOOT PAD, (Wide)
21	7047888BM	1	WELDMENT, Clutch Pedal
22	7011815	1	PAD, Pedal
23	7074131	1	CABLE, Clutch/Brake (55" long)
24	7101192	1	CABLE, Brake, Snap-In (replaces 7072648 (voided))
25	7090372	1	NUT, 1/4-20 Hex Center Lock, GR 5 or B
26	7034174	2	CONNECTOR, Cable
27	7091495	1	SCREW, 1/4-20 x 3/4" Hex Head Cap, GR 5
28	7031100	1	TUBE CLAMP
29	7090358	1	SCREW, 5/16-24 x 2-1/2" Hex Head Cap, GR 5
30	7010969	1	NUT, 5/16-24 Flange Lock (Large)
31	7010694	1	BUSHING, Nylon
32	7046232	1	WELDMENT, Steering Shaft
33	7090753	1	PIN, 3/16 x 1-1/2" Cotter
34	7090122	4	WASHER, 3/8" Flat SAE (or 7091514)
35	7041687	1	WELDMENT, King Pin, Left Hand
36	7041688	1	WELDMENT, King Pin, Right Hand
37	7013321	4	BUSHING, Tie Rod
38	7012541	1	TIE ROD, Left Hand (9.91" long)
39	7012540	1	TIE ROD, Right Hand (9.91" long)
40	7090364	2	PIN, 5/32 x 1" Cotter
41	7090365	2	PIN, 1/8 x 3/4" Cotter
42	7031038	2	CAP, Dust

Footnotes:

Main Case, LH Fender & Yoke Lift Group

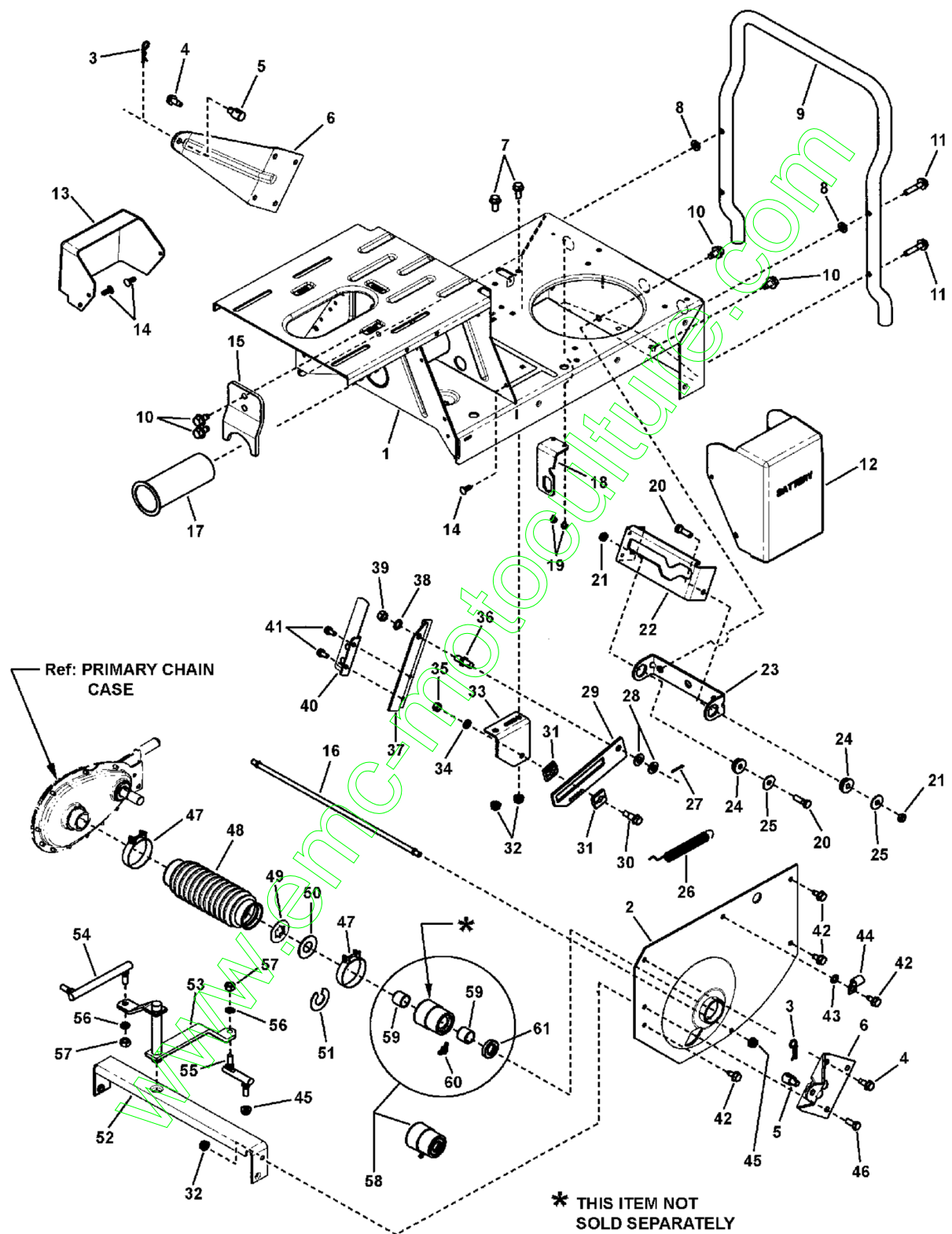


Main Case, LH Fender & Yoke Lift Group

Item	Part No	Qty	Description
1	7053697	1	WELDMENT, Main Case (Standard) (shown)
1	7053698	1	WELDMENT, Main Case (Commercial) (not shown) (used on Kohler Models only)
2	7037285	1	FENDER, Left Hand (1.628" I. D. Hole)
3	7091503	2	HAIR PIN, 3/32 x 1-1/2"
4	7090793	4	SCREW, 5/16-18 x 3/4" Hex Washer Self-Tap
5	7028200	2	SWIVEL, Adjustable, 5/16-18+.109 hole
6	7034299	2	WING, Rear
7	7090595	2	BOLT, 5/16-18 x 3/4" Hex Flange Lock, GR 5
8	7090188	2	WASHER, 11/32" Flat
9	7036367	1	BUMPER, (1-Piece)
10	7091198	4	SCREW, 3/8-16 x 5/8" Hex Washer Self-Tap
11	7091506	4	SCREW, 5/16-18 x 1-1/2" Hex Washer Self-Tap (or 7090484)
12	7028990	1	COVER, Battery
13	7073268	1	COVER, Solenoid
14	7091272	7	FASTENER, 1/4" Ratchet
15	7074210	1	BRACKET, Belt Adjuster
16	7011070	1	TIE ROD, (5/16-24 thread- both ends)
17	7074650	1	BUSHING, Pivot
18	7073735	1	BRACKET, Switch
19	7090981	2	SCREW, #10-32 x 1/4" Hex Washer Self-Tap
20	7090238	2	SCREW, 5/16-24 x 1" Hex Head Cap, GR 5
21	7011201	2	NUT, 5/16-24 Hex Center Lock
22	7046162	1	LIFT, Yoke
23	7033291	1	COLLAR, Yoke
24	7011048	2	BEARING, Yoke
25	7011763	2	FENDER WASHER, 5/16"
26	7013885	1	SPRING, Clutch & Brake
27	7091597	1	PIN, 3/32 x 3/4" Cotter (or 7090037)
28	7090122	2	WASHER, 3/8" Flat SAE
29	7047190	1	BRACKET, Slide
30	7014664	1	BOLT, 5/16-18 Shoulder
31	7014663	2	SLIDE HALF
32	7090585	6	NUT, 5/16-18 Hex Flange Lock, GR 5
33	7047189	1	BRACKET, Drive Support
34	7090187	1	WASHER, 5/16" Split Lock
35	7090196	1	NUT, 5/16-18 Hex, GR 5 or B
36	7015464	1	STUD, Clutch Link (3/8-24 thread)
37	7073733	1	ARM, Yoke
38	7090390	1	WASHER, 3/8" Internal Tooth Lock
39	7091630	1	NUT, 3/8-24 Hex, GR 5 or B (or 7090155)
40	7059068	1	ASSEMBLY, Leaf Spring
41	7090539	2	SCREW, 1/4-20 x 1/2" Hex Washer Self-Tap
42	7090361	4	SCREW, 5/16-18 x 5/8" Hex Washer Self-Tap (or 7091867)
43	7090391	1	WASHER, 5/16" Internal Tooth Lock

Footnotes:

Main Case, LH Fender & Yoke Lift Group

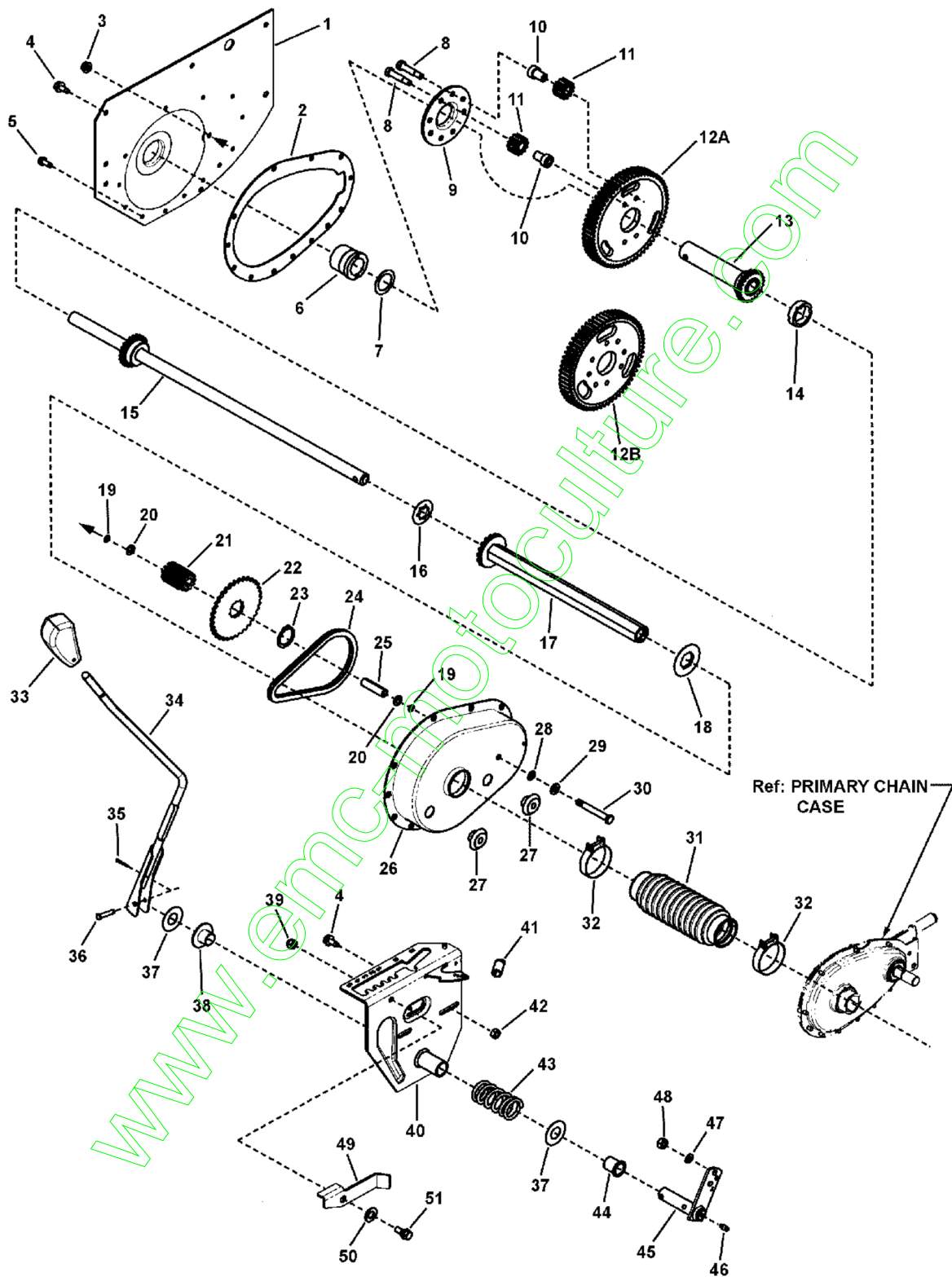


Main Case, LH Fender & Yoke Lift Group

Item	Part No	Qty	Description
44	7012652	1	CLIP, Wire
45	7010969	3	NUT, 5/16-24 Flange Lock (Large)
46	7091318	2	SCREW, 5/16-18 x 3/4" Hex Head Cap, GR 5 (or 7090206)
47	7012332	2	BOOT CLAMP, 2"
48	7075115	1	BOOT, Rear Axle, Thick Flange
49	7011072	1	WASHER, Thrust, (Hex Flanged)
50	7011071	1	WASHER, Thrust, (.765" ID, 1.625" OD)(Nylon)
51	7012271	1	WASHER, Shim (Nylon, can make from 7011071) (or quantity as required)
52	7033799	1	CROSS BRACE
53	7041384	1	WELDMENT, Shift Arm
54	7023676	1	SHIFT LINK, Long (5/16-24 both ends)
55	7011018	1	SHIFT LINK, Short (5/16-24 thread)
56	7091315	7	WASHER, .32 x .58 x .08 Split Lock
57	7091297	7	NUT, 5/16-24 Hex, GR 5
58	7052827	1	ASSEMBLY, DX Bearing (incl. items 59-61)
59	7074182	2	BEARING, DX, 3/4" ID
60	7075848	1	FITTING, Lube, 45 Degree, 3/16" w/Hex (long shank) (or 7013324)
61	7074500	1	SEAL, Axle (Dust/Grease)

Footnotes:

Differential, RH Fender & Gear Shifter Group



Differential, RH Fender & Gear Shifter Group

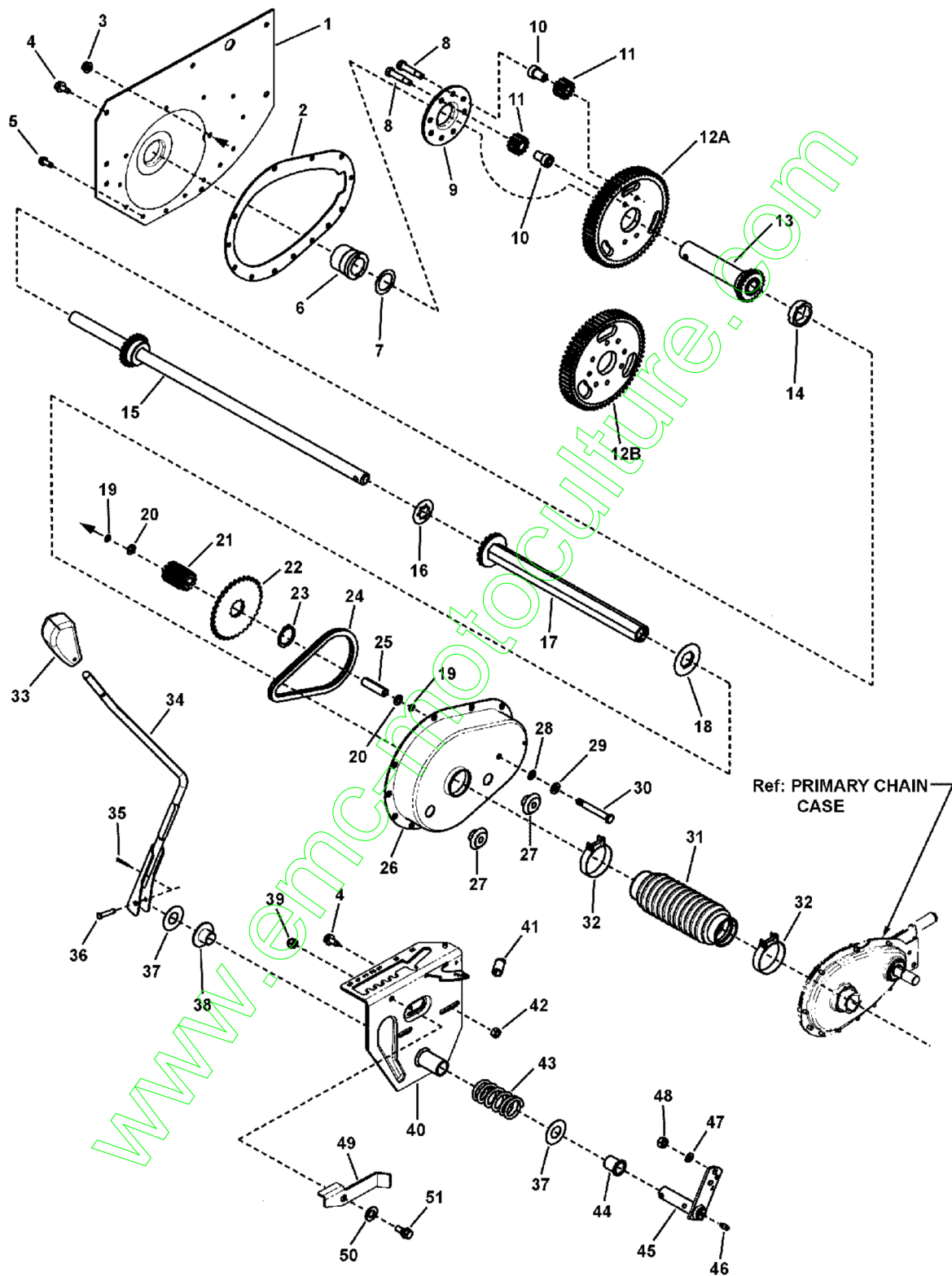
Item	Part No	Qty	Description
1	7037280	1	FENDER, Right Hand (1.62" Dia. Hole)
2	7028762	1	GASKET, Transmission Case
3	7010969	1	NUT, 5/16-24 Flange Lock (Large)
4	7090361	10	SCREW, 5/16-18 x 5/8" Hex Washer Self-Tap
5	7091819	2	SCREW, 1/4-20 x 5/8" Hex Washer Head Self-Tap (or 7090362)
6	7012296	1	BEARING, Axle (R. H. Fender) (used on Briggs model)
6	7054372	1	ASSEMBLY, Axle Bearing-DX (R. H. Fender) (incl. two DX Bearings, p/n 7074183) (used on Kohler models)
7	7031079	1	WASHER, Thrust (1.37" ID, 1.625" OD)
8	7012333	4	BOLT, 5/16-24 x 1-5/8" Hex Special Lock (Vibresist) (replace after each use)
9	7038067	1	PLATE, Differential (Note: 4 holes offset - align properly to prevent binding.)
10	7022115	4, 8	SPACER, Pinion
11	7021127	4, 8	GEAR, Differential Pinion (12T 12P)
12A	7021158	1	GEAR, 63 Tooth 10 Pitch (4 Hole) (used on Briggs model)
12B	7027644	1	GEAR, 63 Tooth 10 Pitch (8 Hole) (used on Kohler models)
13	7057398	1	ASSEMBLY, Short Axle, 23T (Includes Gear)
14	7074431	1	SPACER, Differential (1.25" ID x .423 Wide) (was 7011026)
15	7075479	1	KIT, Long Axle (Includes welded Gear and item #14) (was 7047763)
16	7011072	1	WASHER, Thrust, (Hex Flanged)
17	7051584	1	* ASSEMBLY, Drive Hex Tube
18	7010988	1	WASHER, Nylon
19	7011156	2	O-RING, 5/16"
20	7011782	2	WASHER, 5/16" Belleville
21	7200128	1	GEAR, 11 Tooth, 10 Pitch (replaces 7010964)
22	7021129	1	SPROCKET, 34T, 3/8P
23	7010965	1	RING, 1-3/16" External Retaining
24	7010941	1	CHAIN, 46 Pitch (#35 Endless)
25	7021128	1	SPACER, Differential Case
26	7037279	1	CASE, Transmission
27	7011024	2	PLUG, 1/2" Cup Insert
28	7090395	1	WASHER, 5/16" External Tooth Lock
29	7090188	1	WASHER, .34 x .69 x .08 Flat
30	7011042	1	SCREW, 5/16-24 x 2-5/8" Hex Head Cap
31	7075115	1	BOOT, Oil Seal (Short Axle)
32	7012332	2	BOOT CLAMP, 2"
33	7023656	1	GRIP, Shift Handle
34	7059212	1	WELDMENT, Shift Handle
35	7091597	1	PIN, 3/32 x 3/4" Cotter (or 7090037)
36	7023914	1	PIN, 1/4 x 1-3/4" Tapered Clevis
37	7031036	2	WASHER, Thrust (.76" ID, 1.63" OD)
38	7019245	1	BUSHING, 3/4 x 1.62 Flange (Nylon)
39	7091298	1	NUT, 5/16-18 Hex Nyloc
40	7058763	1	** ASSEMBLY, Speed Adjustment Latch
41	7026292	1	SPRING (part of Speed Adjustment Latch Ass'y)
42	7090196	1	NUT, 5/16-18 Hex, GR 5 or B

Footnotes:

Note: * Assembly includes two bearings inside hex tube (p/n 7015140, not shown) & one nylon washer (p/n 7010988, item 18).

NOTE: ** Assembly is comprised of: Shift Detent Weldment (7041232), Shoulder Rivet (7029022), Reverse Stop (7073218) & item 41.

Differential, RH Fender & Gear Shifter Group



Differential, RH Fender & Gear Shifter Group

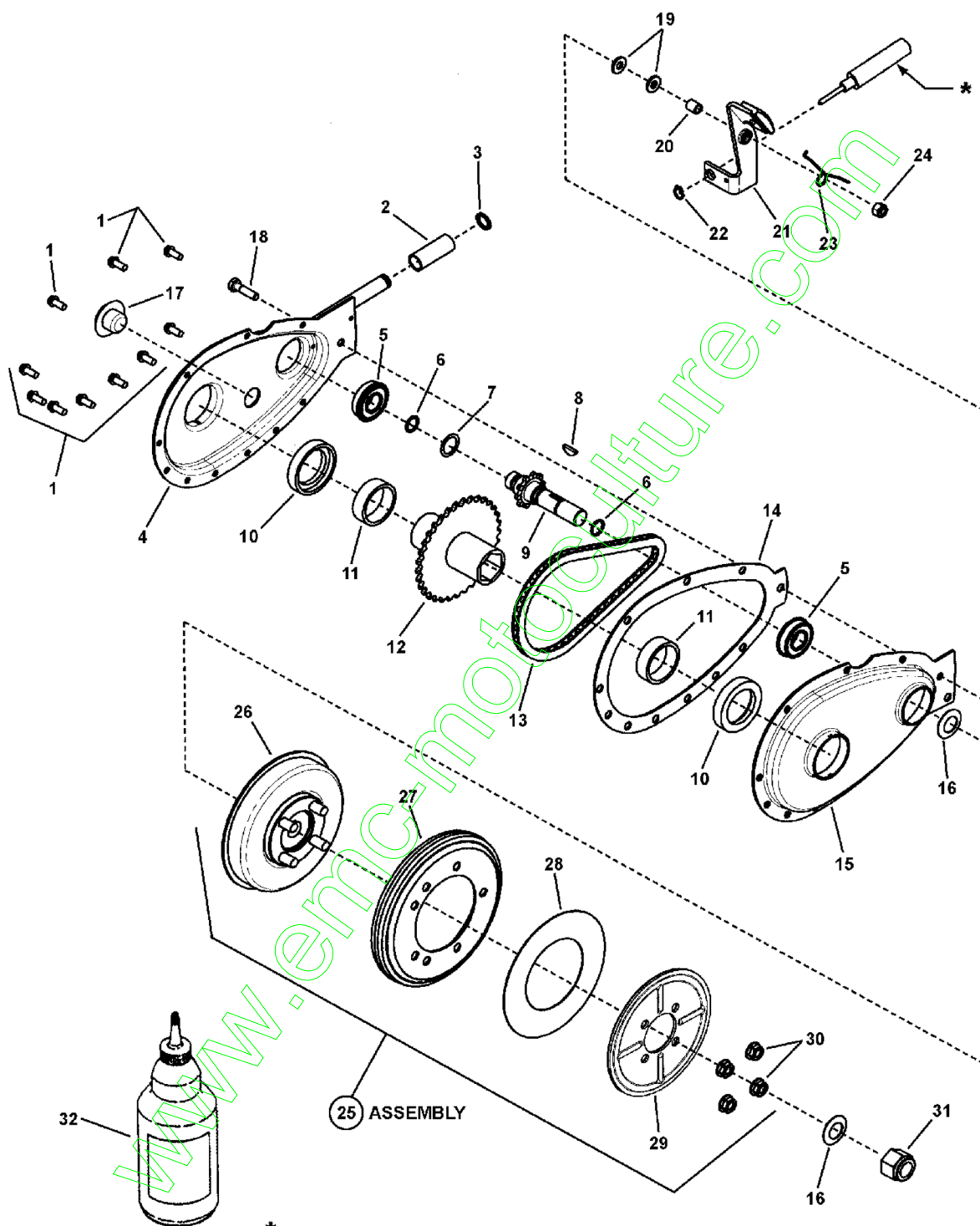
Item	Part No	Qty	Description
43	7010754	1	SPRING, Shift Detent
44	7019246	1	BUSHING, 3/4 x 1.0. Flange (Nylon)
45	7043201	1	WELDMENT, Arm, Shift Handle (w/grease fitting. Hole)
46	7010817	1	LUBE FITTING, 3/16" Press-In
47	7091315	1	WASHER, .32 x .58 x .08 Split Lock
48	7091297	1	NUT, 5/16-24 Hex, GR 5
49	7073289	1	LEVER, Over-Ride
50	7091595	1	WASHER, .47 x .92 x .065 Flat
51	7015761	1	BOLT, Shoulder, 5/16-18
--	7061017		GREASE, Transmission (24 oz. Required for Differential)
--	7060662		KIT, Differential (8 Pinion w/DX Bearing)
--	7060412		KIT, Long & Short Axle (Includes items 13, 14, & 15)

Footnotes:

Note: * Assembly includes two bearings inside hex tube (p/n 7015140, not shown) & one nylon washer (p/n 7010988, item 18).

NOTE: ** Assembly is comprised of: Shift Detent Weldment (7041232), Shoulder Rivet (7029022), Reverse Stop (7073218) & item 41.

Primary Chain Case & Smooth Clutch Group



* Ref: BRAKE CABLE; see Front End Ass'y Group, item 24

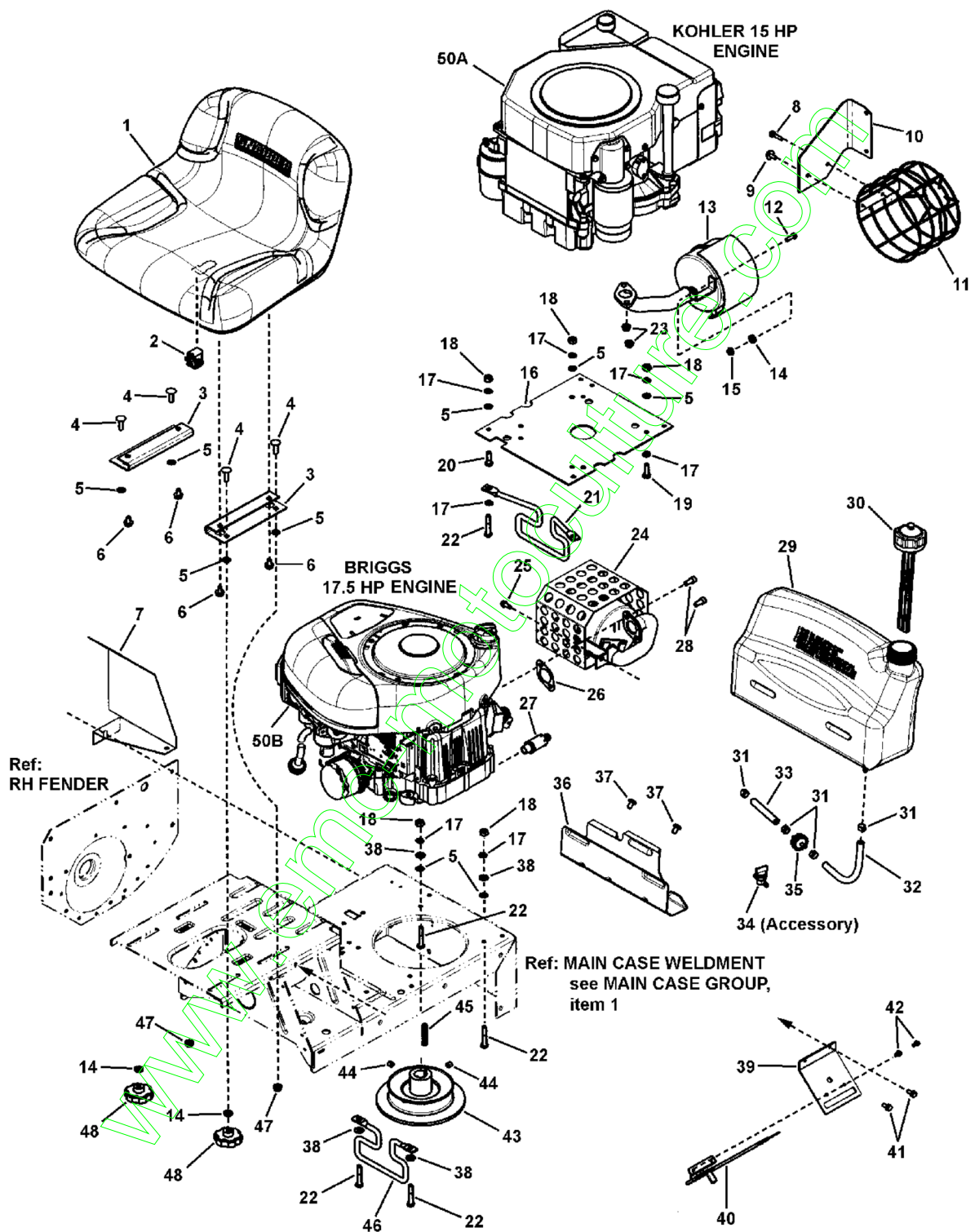
Primary Chain Case & Smooth Clutch Group

Item	Part No	Qty	Description
--	7052683	1	ASSEMBLY, Primary Chain Case (Includes items 1 thru 16)
1	7090307	10	SCREW, 10-24 x 1/2" Hex Washer Self-Tap
2	7022785	1	ROLLER, 1-3/8 Long
3	7010776	1	RING, 1/2" External Retaining (Heavy Duty)
4	7041136	1	WELDMENT, Primary Chain Case Half, Right Hand
5	7010756	2	BEARING, .625 x 1.37 x .435
6	7019260	2	O-RING, 1/2 x 5/8"
7	7027981	1	WASHER, Shim .625 x .875
8	7010614	1	KEY, #5 Woodruff
9	7018963	1	WELDMENT, Sprocket & Shaft
10	7011086	2	WASHER, Thrust, Nylon
11	7010942	2	BEARING, Needle 1.355" ID x 1.6245" OD x .5" Wide
12	7040355	1	WELDMENT, Hub & Sprocket
13	7010941	1	CHAIN, 46 Pitch (#35 Endless)
14	7028761	1	GASKET, Primary Chain Case
15	7039778	1	PRIMARY CHAIN CASE HALF, Left Hand
16	7011121	2	WASHER, 5/8" Belleville
17	7011024	1	PLUG, 3/4" Cup Insert
18	7091504	1	SCREW, 1/4-28 x 1" Hex Head Cap, (Washer Face) GR 5
19	7091294	2	WASHER, .28 x .63 x .06 Flat, GR 5
20	7072593	1	SPACER, Brake Arm Pivot (.418/.403 long) (replaces 7010916 (.300/.285 long))
21	7052497	1	ASSEMBLY, Brake Lever (Includes brake pad & rivet)
22	7012313	1	RING, 3/8" External Retaining
23	7072406	1	* SPRING, Torsional Brake Return
24	7090303	1	NUT, 1/4-28 Hex Top Lock
25	7053114	1	ASSEMBLY, Smooth Clutch (non-asbestos) (Includes the following 5 items)
26	7059443	1	HUB, Driven Disc (assembly) (replaces 7054243 (voided))
27	7053103	1	DISC, Driven (rubber tire bonded to rim)
28	7014523	1	WASHER, Thrust
29	7032331	1	PLATE, Drive Disc
30	7092081	4	NUT, 5/16-24 Hex Flange Lock
31	7091505	1	NUT, 5/8-18 Hex Nyloc
32	7061017	1 qt	** GREASE, Transmission (Use 2 oz. Maximum)

Footnotes:

* NOTE: Brake return replacement kit (7061197) is made of items 20 & 23.

** NOTE: Use 2 oz. maximum (Overfilling may cause leakage at 7010756 bearing)

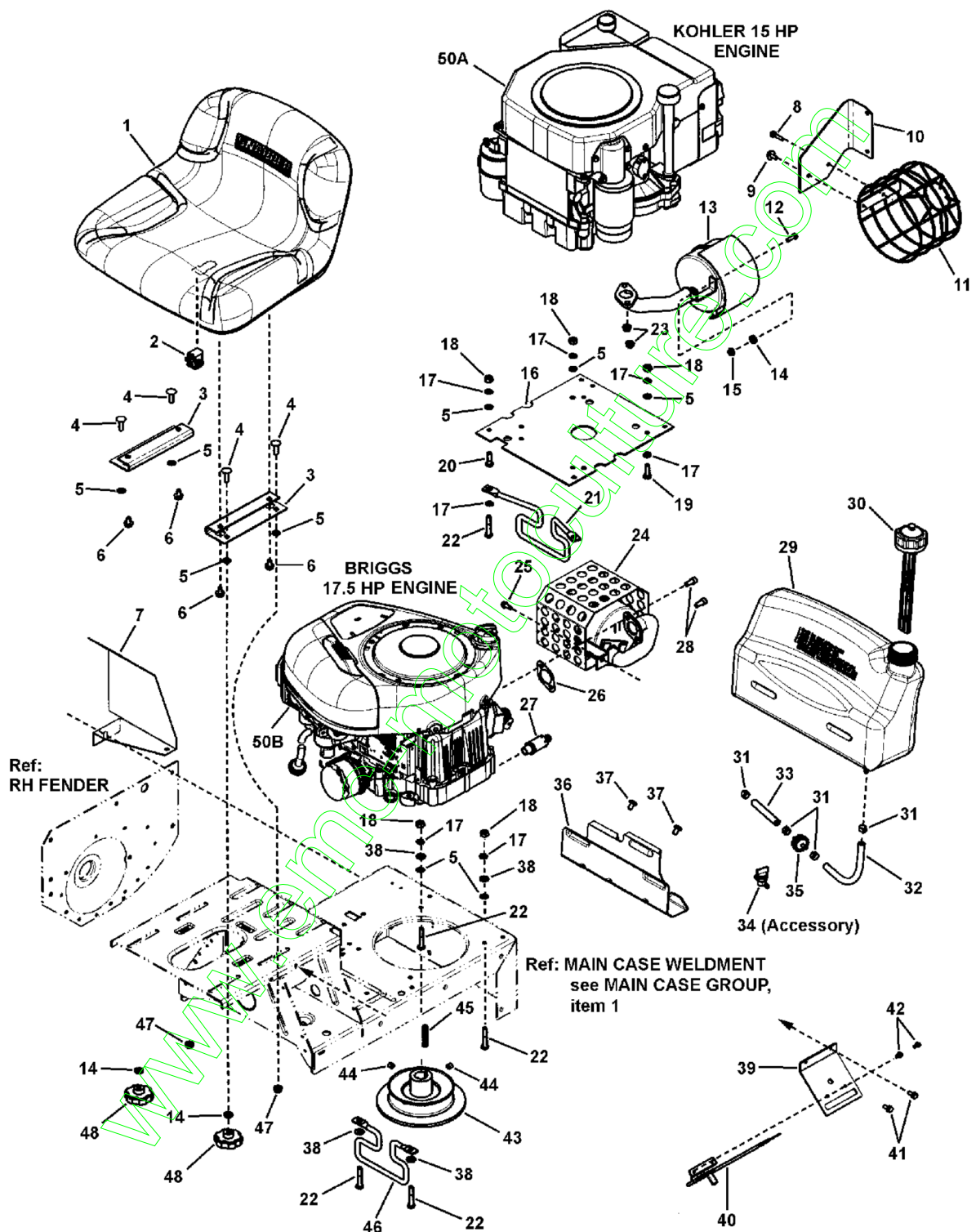


Engine Group

Item	Part No	Qty	Description
1	7075071	1	SEAT, Operator (11.58" tall) (Michigan V-2400 Series)
2	7023354	1	SWITCH, Seat (NC)(Gray)
3	7075018BM	2	BRACKET, Seat
4	7091303	4	BOLT, 5/16-18 x 1" Square Neck Carriage, GR 5 YZ
5	7011791	8	RETAINER, 5/16" Bolt
6	7091038	4	BOLT, 5/16-18 x 1/2" Hex Flange Nyloc
7	7301135	1	GUARD, Manifold, RER
8	7091059	1	SCREW, 1/4-20 x 1" Hex Head Cap, GR 5
9	7091016	3	SCREW, 1/4-20 x 5/8" Hex Head w/Free Spinning Washer
10	7033564	1	BRACKET, Muffler Guard (Kohler)
11	7024356	1	MUFFLER GUARD, Kohler
12	7091495	1	SCREW, 1/4-20 x 3/4" Hex Head Cap, GR 5
13	7019358	1	MUFFLER, (Kohler 14 & 15HP)
14	7013849	3	SPACER, .33 x .63 x .156
15	7091065	2	NUT, 1/4-20 Hex Flange Lock
16	7074946	1	PLATE, Engine (Kohler Engine) (used on Kohler Engine Models only)
17	7091315	8	WASHER, .32 x .58 x .08 Split Lock
18	7091297	4	NUT, 5/16-24 Hex, GR 5
19	7077692	4	BOLT, M8-1.25 x 25mm, Self-Tap (Kohler)
20	7090238	4	SCREW, 5/16-24 x 1" Hex Head Cap, GR 5
21	7036419	1	BELT GUIDE, K 30/33" (used on all Kohler 33" Euro Models)
22	7091513	4	SCREW, 5/16-24 x 1-3/4" Hex Head Cap, GR 5
23	7090585	2	NUT, 5/16-18 Hex Flange Lock, GR 5
24	7104173	1	MUFFLER w/Guard (Briggs 17.5HP)
25	7090362	1	SCREW, 1/4-20 x 5/8" Hex Washer Head Self-Tap
26	7015352	1	GASKET, Exhaust
27	7027972	1	ASSEMBLY, Oil Valve
28	7091738	2	SET SCREW, 5/16-18 x 3/4" Socket Head, GR8
29	7052435	1	ASSEMBLY, Fuel Tank with Gauge (Includes Cap)
30	7019377	1	CAP, Fuel Tank w/Gage
31	7029900	4	CLAMP, Fuel Line (.490 X .31)
32	1734994	1	HOSE, Fuel (1/4" I.D. x 8-1/2" long) (used on 7800718 model)
32	7012912	1	HOSE, Fuel (1/4" I.D. x 12-1/2" long) (used on Kohler Models only)
32	7200109	1	HOSE, Fuel (1/4" I.D. x 6-1/2" long) (used on Kohler Models only)
33	7077351	1	HOSE, Fuel (1/4" I.D. x 3-1/2" long)
34	7024507	1	VALVE, Fuel Shut-Off (Accessory)
35	7014359	1	FILTER, Fuel (In-Line)
36	7033377BM	1	BRACKET, Fuel Tank (Rear)
37	7091542	2	SCREW, 5/16-18 x 1/2" Pan Head Self-Tap (Torx #T-40)
38	7090188	4	WASHER, 11/32" Flat
39	7033470	1	PLATE, Throttle Control
40	7022751	1	CONTROL, Throttle (23.6" long) (Briggs Engines)
40	7074320	1	CONTROL, Throttle (34.6" long) (Kohler Engines)
41	7090539	2	SCREW, 1/4-20 x 1/2" Hex Washer Self-Tap

Footnotes:

Note: * Purchase engine parts from engine manufacture dealer.

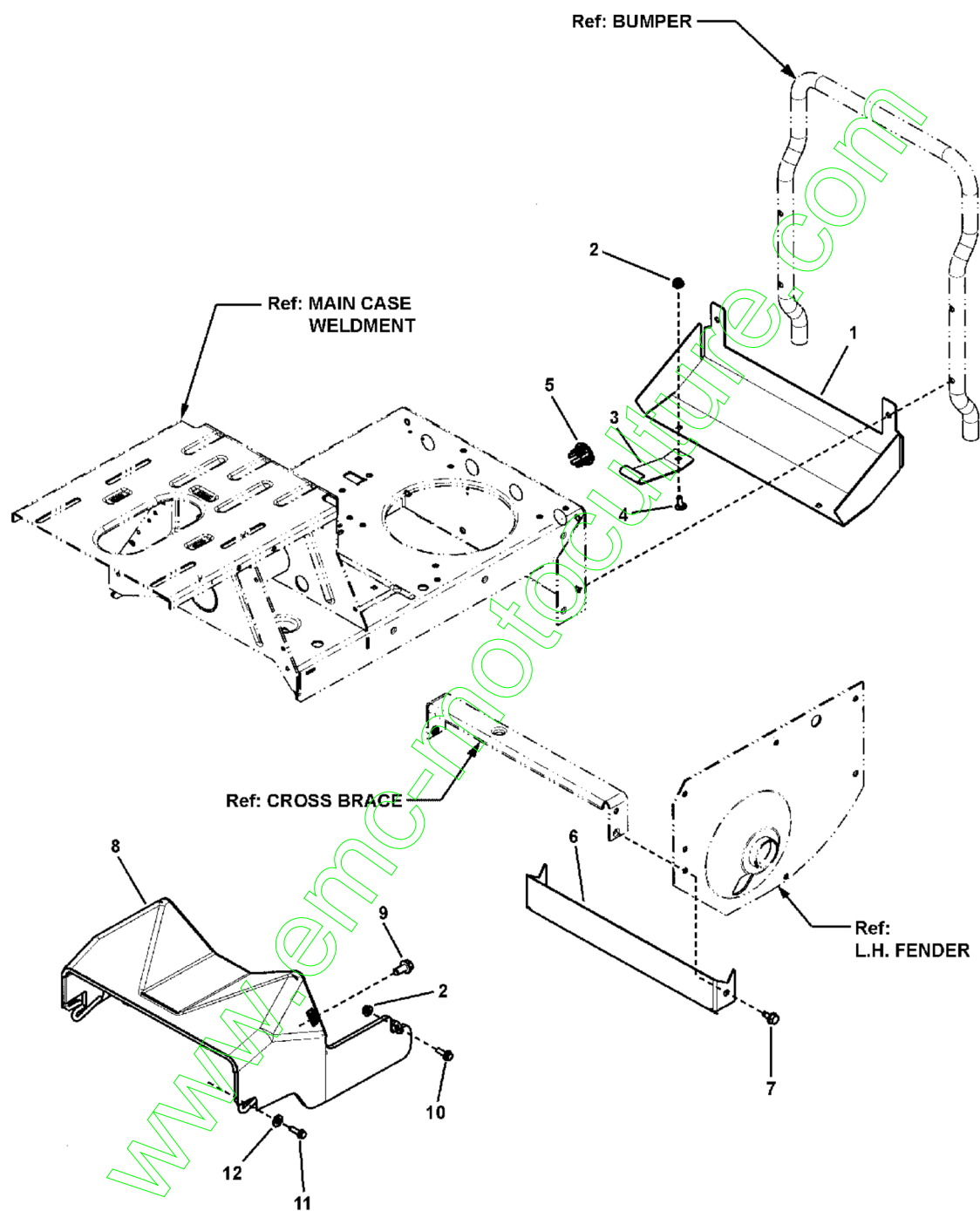


Engine Group

Item	Part No	Qty	Description
42	7090913	2	SCREW, #10-24 x 1/2" Hex Washer Self-Tap (Torx)
43	7074187	1	WELDMENT, 5.25" O.D. Drive Disc
44	7090132	2	SET SCREW, HRSS, 3/8-16 x 3/8"
45	7010210	1	KEY, 1/4" Square x 2" Long
46	7036418BZ	1	BELT GUIDE, 30/33"
47	7090672	2	NUT, 5/16-18 Hex Flange Top Lock
48	7023735	2	KNOB, Fluted, 5/16-18 internal thread (2.15 O.D.)
49	7091576	1	NUT, 1/4-20 Hex, GR 5 or B (not shown) (attaches to starter terminal)
50A	CV15ST-PS-4158	1	* ENGINE, 15 HP Kohler (used on 7084888, 7800119, 7800502, 7800656, 7800660, & 84888 models)
50B	31G777-0147-B1	1	* ENGINE, 17.5 HP Briggs Intek w/AVS Euro (used on 7800718 model)

Footnotes:

Note: * Purchase engine parts from engine manufacture dealer.

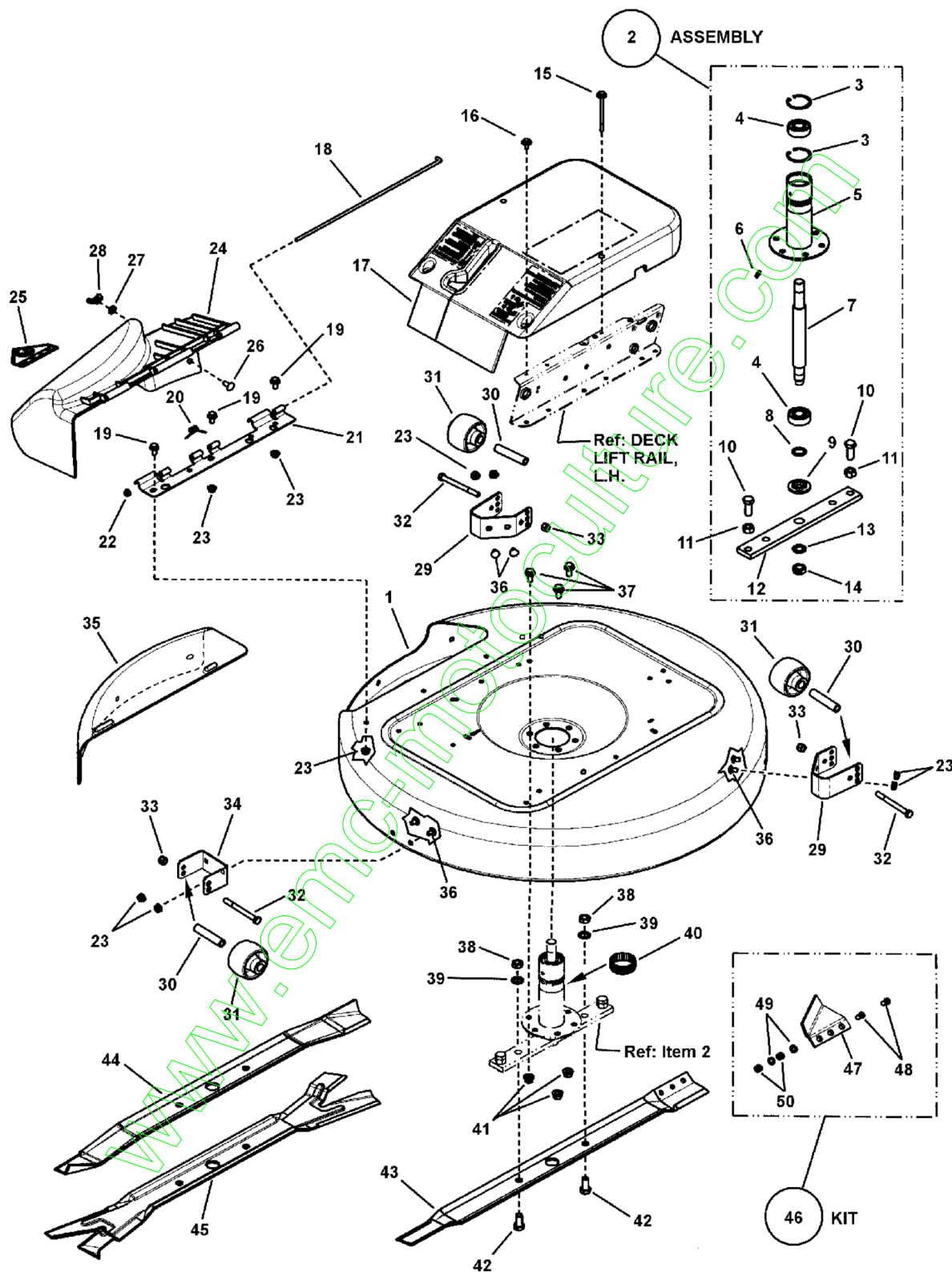


French Guard Group

Item	Part No	Qty	Description
1	7300547	1	REAR GUARD, Euro Maincase
2	7091584	3	NUT, 1/4-20 Hex Flange Lock
3	7300548	2	STRAP, Rear Guard
4	7091530	2	BOLT, 1/4-20 x 3/4" Short Neck Carriage, GR 5
5	7024998	3	PLUG, 1" Hole
6	7300546	1	GUARD, Main Case, Front, Euro RER
7	7090361	2	SCREW, 5/16-18 x 5/8" Hex Washer Self-Tap
8	7102769	1	GUARD ASSEMBLY, Wire Form (Euro)
9	7090815	2	SCREW, 3/8-16 x 3/4" Hex Washer Self-Tap, BZ
10	7091906	1	SCREW, 1/4-20 x 3/4" Hex Head Flange, GR 5, YZ
11	720042	2	SCREW, 1/4-20 x 1" Hex Washer Self-Tap
12	7090188	2	WASHER, 11/32" Flat

Footnotes:

33" Mower Deck Group

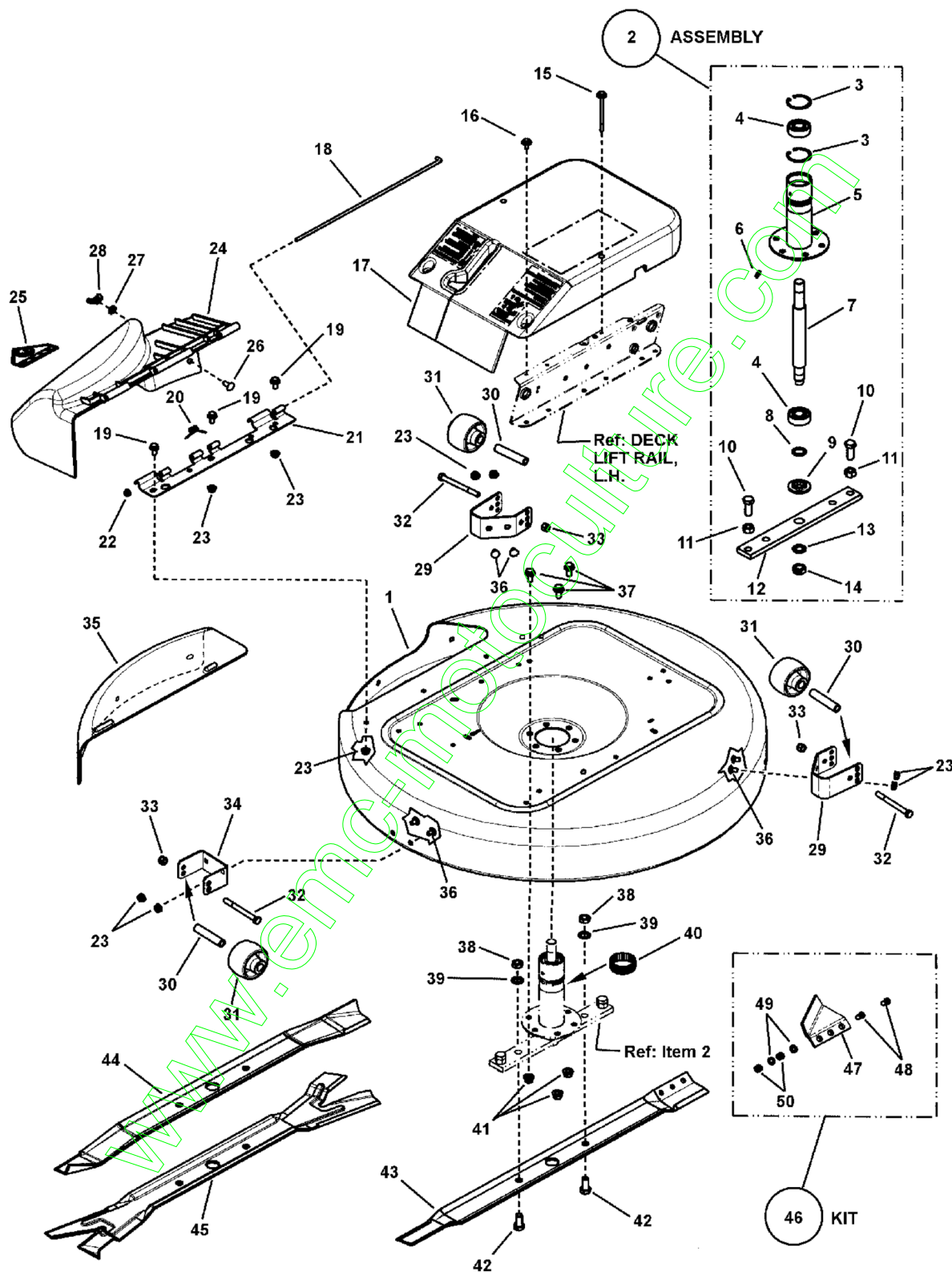


33" Mower Deck Group

Item	Part No	Qty	Description
1	7061972	1	DECK, 33" Replacement (painted deck w/decals)
2	7054531BM	1	ASSEMBLY, Spindle Housing (Incl. items 3 thru 14)
3	7012491	2	RING, 1.85" Internal Retaining
4	7013313	2	BEARING, Spindle
5	7050696	1	ASSEMBLY, Housing (Incl. grease fitting, 7010817)
6	7010817	1	LUBE FITTING, 3/16" Press-In
7	7044785	1	SPINDLE, Rider (10.327" overall length)
8	7010935	1	WASHER, .77 x 1.13 x .06 Flat
9	7014407	1	WASHER, Spindle
10	7090491	2	SCREW, 1/2-20 x 1-1/4" Hex Head Cap, GR 5
11	7091939	2	NUT, 1/2-20 Hex, GR 5 or B
12	7037751	1	HOLDER, Blade
13	7044782	1	SPACER, Blade Centering
14	7090356	1	NUT, 5/8-18 Hex Center Lock Jam
15	7091015	2	SCREW, 1/4-20 x 3-1/2" Hex Head w/Free Spinning Washer
16	7091016	4	SCREW, 1/4-20 x 5/8" Hex Head w/Free Spinning Washer
17	7073434	1	COVER, Spindle
18	7026234	1	PIN, Hinge
19	7091811	3	BOLT, 5/16-18 x 5/8" Hex Flange Lock, GR 5 (or 7091510)
20	7016341	1	SPRING, Hinge
21	7300886	1	HINGE, Deflector (Deck side)
22	7026483	2	PUSH NUT, 1/4"
23	7091601	9	NUT, 5/16-18 Hex Flange Lock, GR 5
--	7500276	1	ASSEMBLY, Discharge Deflector, 28" & 33" (w/o decal) (used on 7800502, 7800660 & 7800718)
--	7057786	1	ASSEMBLY, Discharge Deflector, 28" & 33" (used on 7800656)
24	7026233	1	DEFLECTOR, Discharge, 28" & 33"
25	7022841	1	DECAL, Danger, (Cut Finger) International Symbol
26	7091508	2	BOLT, 5/16-18 x 3/4" Short Neck Carriage, GR 5 (or 7090001)
27	7090188	2	WASHER, 5/16" Flat (or 7091296)
28	7090492	2	NUT, 5/16-18 Wing
29	7033571	2	BRACKET, Gage Wheel (Rear)
30	7015272	3	SPACER
31	7019190	3	WHEEL, Gage
32	7091532	3	SCREW, 3/8-24 x 3-3/4" Hex Head Cap, GR 5
33	7091518	3	NUT, 3/8-24 Hex Nyloc
34	7033570	1	BRACKET, Gage Wheel (Front)
35	7016984	1	COVER, 33" Mulcher (optional)
36	7090731	6	BOLT, 5/16-18 x 1/2" Short Neck Carriage, GR 5
37	7090612	3	BOLT, 3/8-16 x 3/4" Hex Flange Lock
38	7090559	2	NUT, 1/2-20 Hex Jam
39	7090509	2	WASHER, 1/2" Internal Tooth Lock
40	7012670	1	RING, Tolerance
41	7090613	9	NUT, 3/8-16 Hex Flange Lock (or 7090585)
42	7090392	2	SCREW, 1/2-20 x 1" Hex Head Cap, GR 5

Footnotes:

33" Mower Deck Group



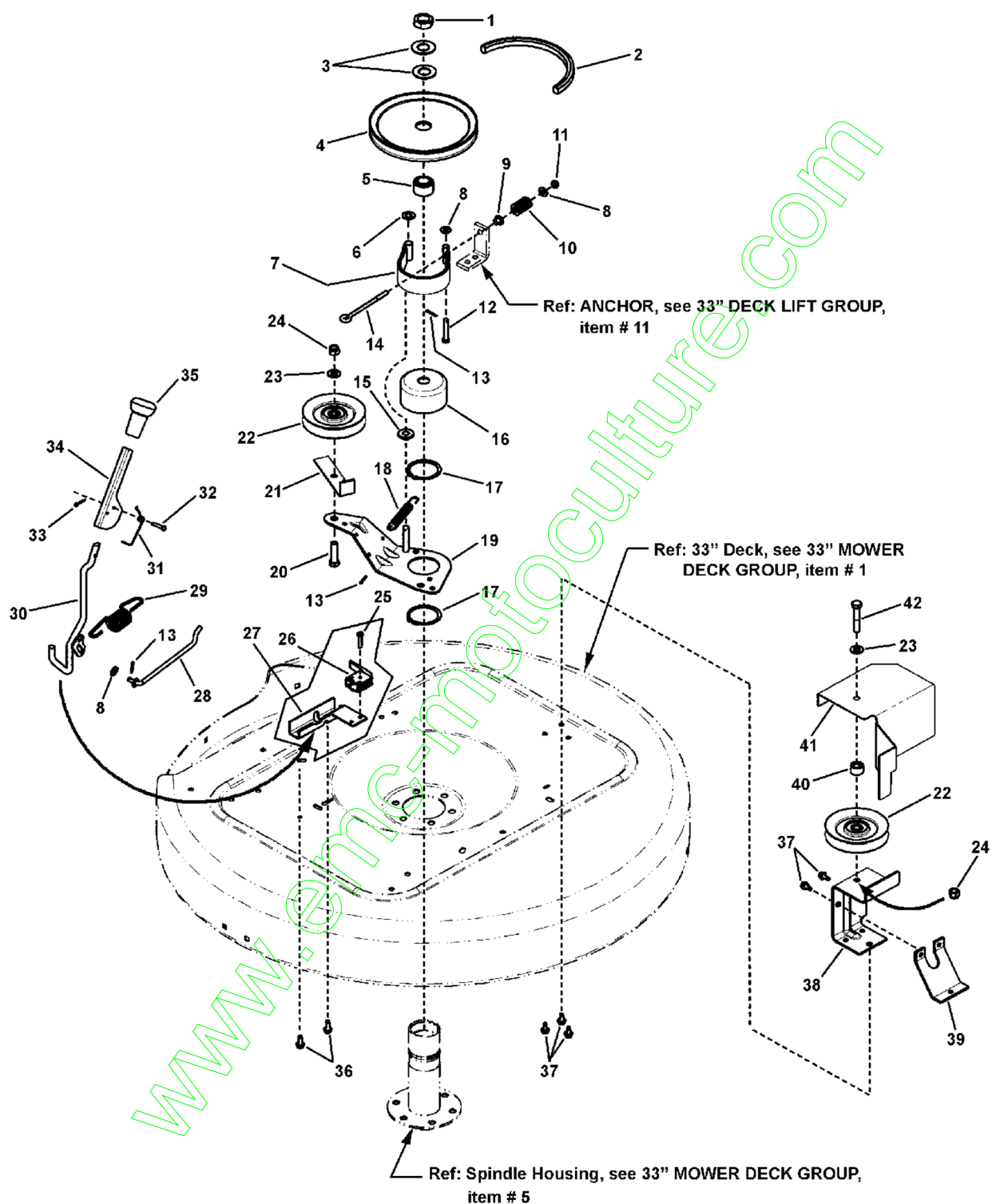
33" Mower Deck Group

Item	Part No	Qty	Description
43	7019523	1	BLADE, 33"
44	7016982	1	BLADE, 33" Mulcher
45	7024741	1	BLADE, Ninja, 33"
46	7060480	1	KIT, Air Lift, Hi-Vac (Includes items 47, 48, 49 & 50)
47	7037723	2	AIR LIFT, Hi-Vac (3 hole)
48	7090228	6	SCREW, 5/16-24 x 11/16" Oval Head Machine
49	7090391	6	WASHER, 5/16" Internal Tooth Lock
50	7090223	6	NUT, 5/16-24 Hex

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Footnotes:

33" Mower Belt, Brake & Interlock Group



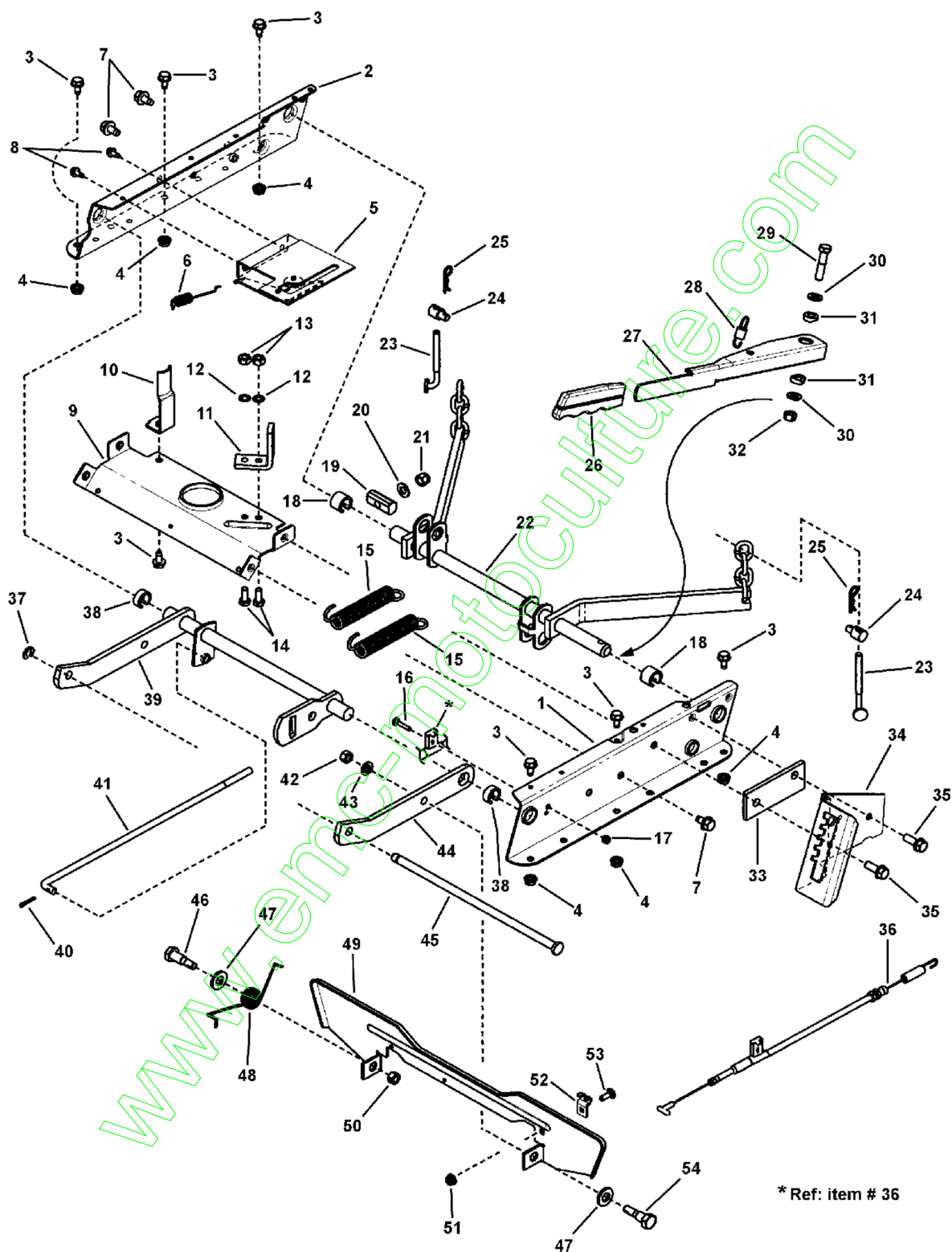
33" Mower Belt, Brake & Interlock Group

Item	Part No	Qty	Description
1	7074467	1	NUT, 3/4-16 Hex Jam, GR 8
2	7043844	1	* BELT, Drive (73.75" AA Section)
3	7032027	2	WASHER, 49/64" I.D. x 1-1/2" O.D. Flat
4	7018781	1	PULLEY, Deck
5	7015290	1	PULLEY, Hub (Powdered Metal)
6	7090122	1	WASHER, 3/8" Flat SAE
7	7034852	1	BAND, Brake (Formed)
8	7091294	4	WASHER, .28 x .63 x .06 Flat, GR 5 (or 7090055)
9	7014343	1	BUSHING, Flange .27 x .35 x .4
10	7046782	1	SPRING, Rectangular Wire Die, Blue
11	7090761	1	NUT, 1/4-20 Hex Top Lock (or 7091705)
12	7014304	1	PIN, 1/4 x 1-5/8" Clevis
13	7091597	3	PIN, 3/32 x 3/4" Cotter (or 7090037)
14	7046677	1	EYE-BOLT, 1/4-20 x 4"
15	7014314	1	SPACER, .39 x 1.0 x .31 Nylon
16	7035378	1	DRUM, Brake Spindle (3" OD, 1.6" Tall)
17	7010740	2	RING, 2" External Retaining
18	7036521	1	SPRING, Extension, 4" x 1/2" Diameter
19	7047787	1	WELDMENT, Idler Arm
20	7091497	1	SCREW, 3/8-16 x 1-1/2" Hex Head Cap, GR 5
21	7032111	1	RESTRICTOR, Belt
22	7029624	2	PULLEY, Idler (3/8" ID, 4" OD)
23	7091514	2	WASHER, 3/8" Flat
24	7091299	2	NUT, 3/8-16 Hex Nyloc
25	7090299	1	SCREW, #10-32 x 1" Hex Washer Head Self-Tap
26	7018524	1	SWITCH, Deck Interlock (NO)
27	7038021	1	MOUNT, Handle/Switch
28	7012055	1	ROD, Idler Control
29	7014168	1	SPRING, Blade Handle
30	7059254	1	WELDMENT, Blade Engagement Handle
31	7046648	1	SPRING, Torsion, Flip Handle
32	7091974	1	PIN, 3/16 x 1" Clevis
33	7090555	1	PIN, 3/32 x 1/2" Cotter
34	7046567	1	HANDLE, Blade Engagement (Flip)
35	7046874	1	GRIP, Handle
36	7090362	2	SCREW, 1/4-20 x 5/8" Hex Washer Head Self-Tap (or 7091819)
37	7090858	5	SCREW, 5/16-18 x 1/2" Hex Washer Self-Tap
38	7035728	1	BRACKET, Fixed Idler
39	7036526	1	BRACE, Fixed Idler Bracket
40	7100063	1	SPACER, Idler
41	7300545	1	GUARD, Pulley (used on 7800119)
42	7091305	1	SCREW, 3/8-16 x 2" Hex Head Cap, GR 5

Footnotes:

NOTE: * Belt part numbers are printed on belts.

33" Deck Lift Group

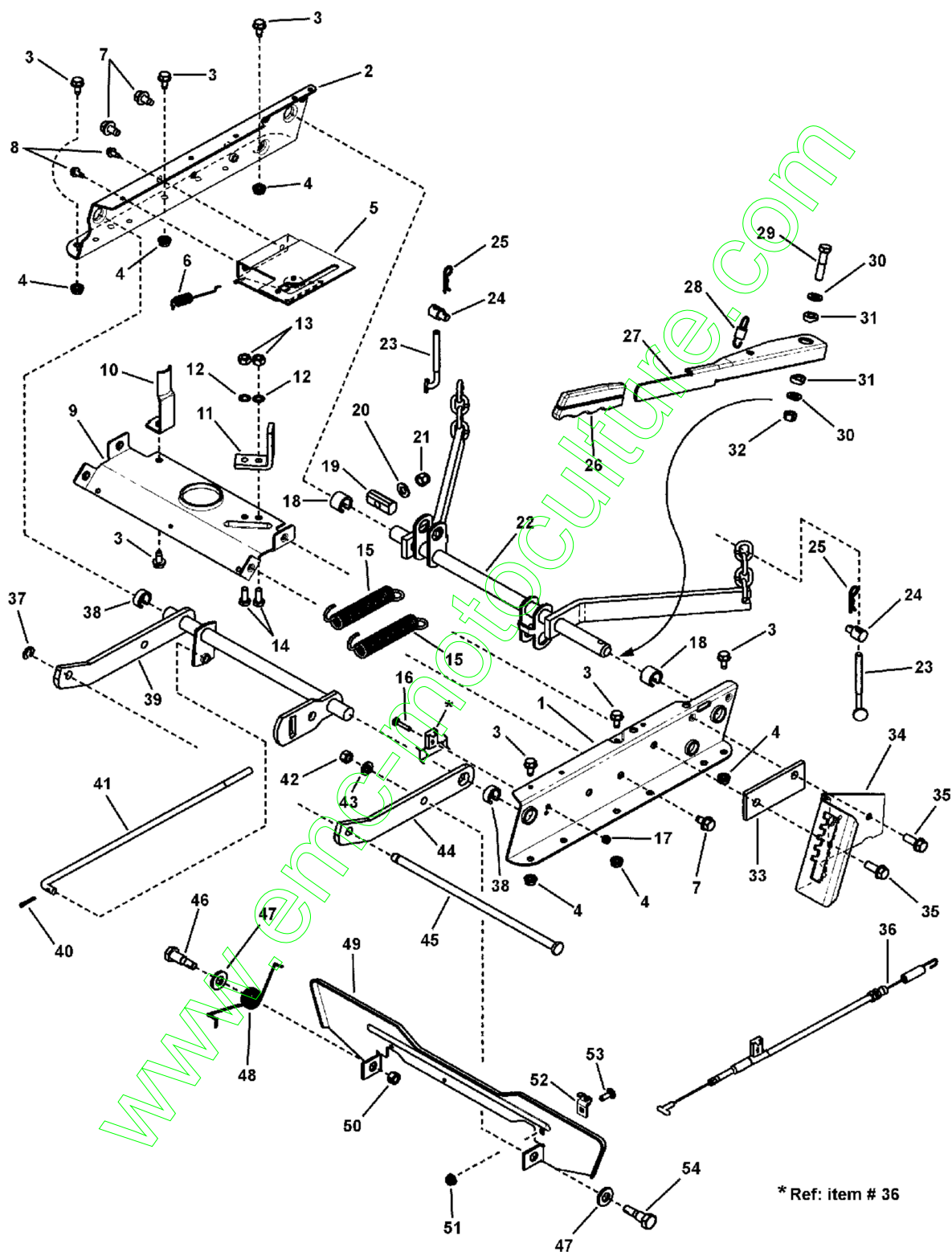


33" Deck Lift Group

Item	Part No	Qty	Description
1	7073269	1	RAIL, Deck Lift, Left Hand
2	7043848	1	RAIL, Deck Lift, Right Hand
3	7090361	7	SCREW, 5/16-18 x 5/8" Hex Washer Self-Tap
4	7090585	6	NUT, 5/16-18 Hex Flange Lock, GR 5
5	7058969	1	ASSEMBLY, Clutch Plate
6	7074649	1	SPRING, Latching
7	7091198	3	SCREW, 3/8-16 x 5/8" Hex Washer Self-Tap
8	7090858	2	SCREW, 5/16-18 x 1/2" Hex Washer Self-Tap
9	7031838	1	BRACE, Top
10	7031855	1	GUIDE, Belt
11	7032243	1	ANCHOR
12	7090391	2	WASHER, 5/16" Internal Tooth Lock
13	7091297	2	NUT, 5/16-24 Hex (replaces 7090223 (voided))
14	7090233	2	SCREW, 5/16-24 x 3/4" Hex Head Cap, GR 5
15	7046163	2	SPRING, Assist
16	7092051	1	BOLT, #10-24 x 1" Flat Head Square Neck
17	7091290	1	NUT, #10-24 Hex Nyloc
18	7012068	2	RING, Rear Lift Arm (Blue)
19	7034213	1	PIVOT, Leveling
20	7090122	1	WASHER, 3/8" Flat SAE
21	7090854	1	NUT, 3/8-24 Hex Nyloc
22	7059324	1	WELDMENT, Rear Lift Arm
23	7028728	2	ADJUSTER, Chain (5/16-18 thread)
24	7028200	2	SWIVEL, Adjustable, 5/16-18+.109 hole
25	7091503	2	HAIR PIN, 3/32 x 1-1/2"
26	7026420	1	GRIP, Height Adjustment Lever
27	7046155	1	LEVER, Height of Cut
28	7046159	1	SPRING, Lever
29	7090483	1	SCREW, 3/8-24 x 1-3/4" Hex Head Cap, GR 5
30	7032030	2	WASHER, 13/32 x 1-1/4" Flat
31	7071920	2	SPACER, Deck Lift
32	7090289	1	NUT, 3/8-24 Hex Center Lock
33	7046217	1	SPACER, Detent
34	7046157	1	DETENT, Height Adjust
35	7090324	2	SCREW, 3/8-16 x 1" Hex Washer Self-Tap
36	7073216	1	CABLE ASSEMBLY, No Reverse in Mow
37	7017847	1	RING, .438 External Retaining
38	7012067	2	RING, Front Lift Arm (Red)
39	7058041	1	WELDMENT, Front Lift Arm
40	7091598	1	PIN, 1/8 x 3/4" Cotter (or 7090365)
41	7016122	1	ROD, Leveling (3/4-24 thread)
42	7091630	1	NUT, 3/8-24 Hex, GR B (or 7090155)
43	7032030	1	WASHER, Flat 13/32" ID x 1.25" x 1/8" Thick ZP (or 7012063)
44	7032997	1	ARM, Front Lift

Footnotes:

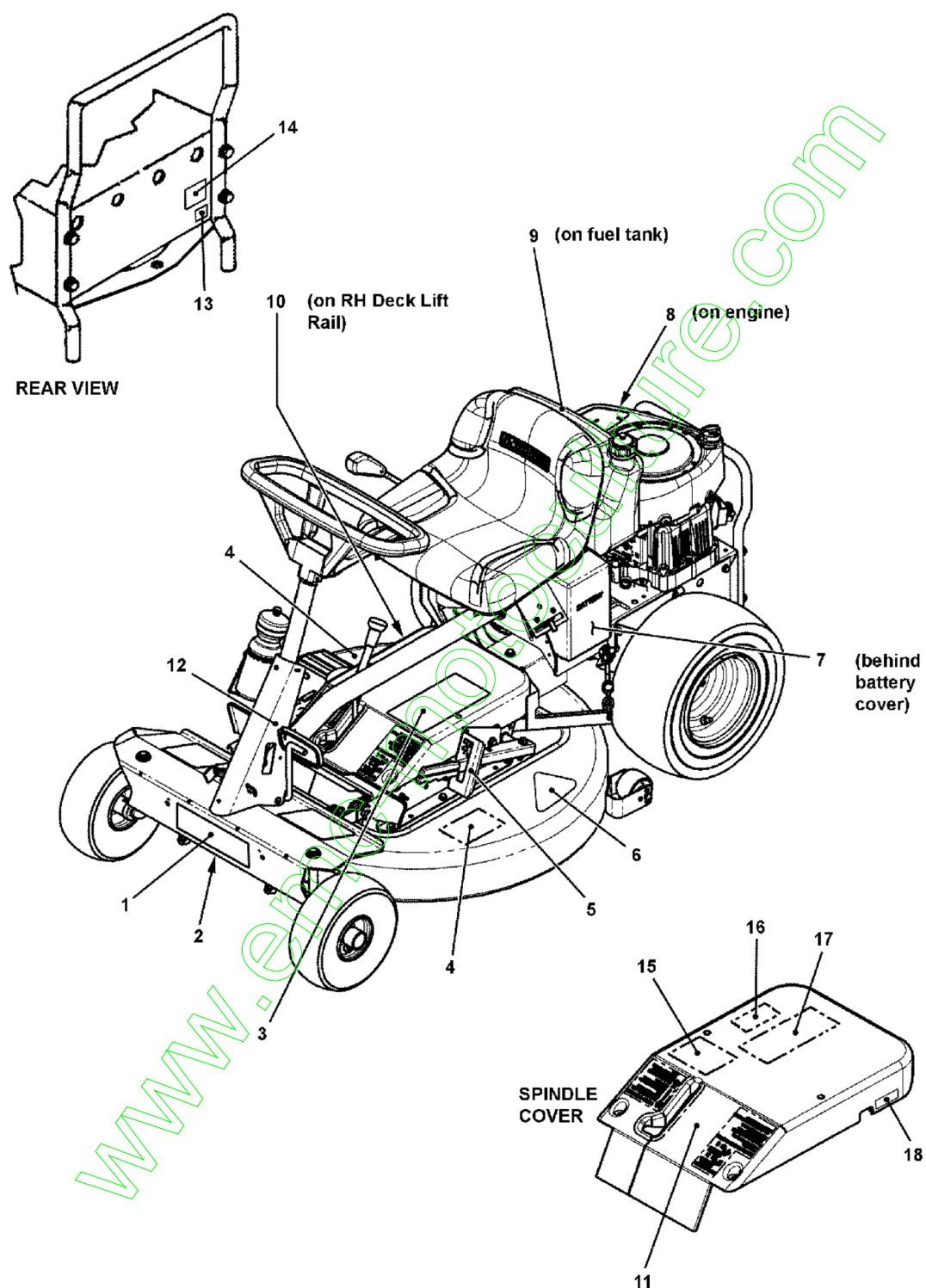
33" Deck Lift Group



33" Deck Lift Group

Item	Part No	Qty	Description
45	7022717	1	ROD, Deck Support (Front Lift Arm to Front End)
46	7015446	1	BOLT, Shoulder, 3/8-24 x 9/16"
47	7091587	2	WASHER, 1/2" Flat SAE (or 7090250)
48	7015448	1	SPRING, Pedal
49	7073267	1	FOOT PEDAL, Blade Stop Control
50	7090289	1	NUT, 3/8-24 Hex Center Lock
51	7091584	1	NUT, 1/4-20 Hex Flange Lock, GR 5
52	7073217	1	CLIP, Cable
53	7091776	1	BOLT, 1/4-20 x 3/4" Square Neck Carriage, GR 5
54	7015495	1	BOLT, Shoulder, 3/8-24 w/Nylon Patch, GR 5

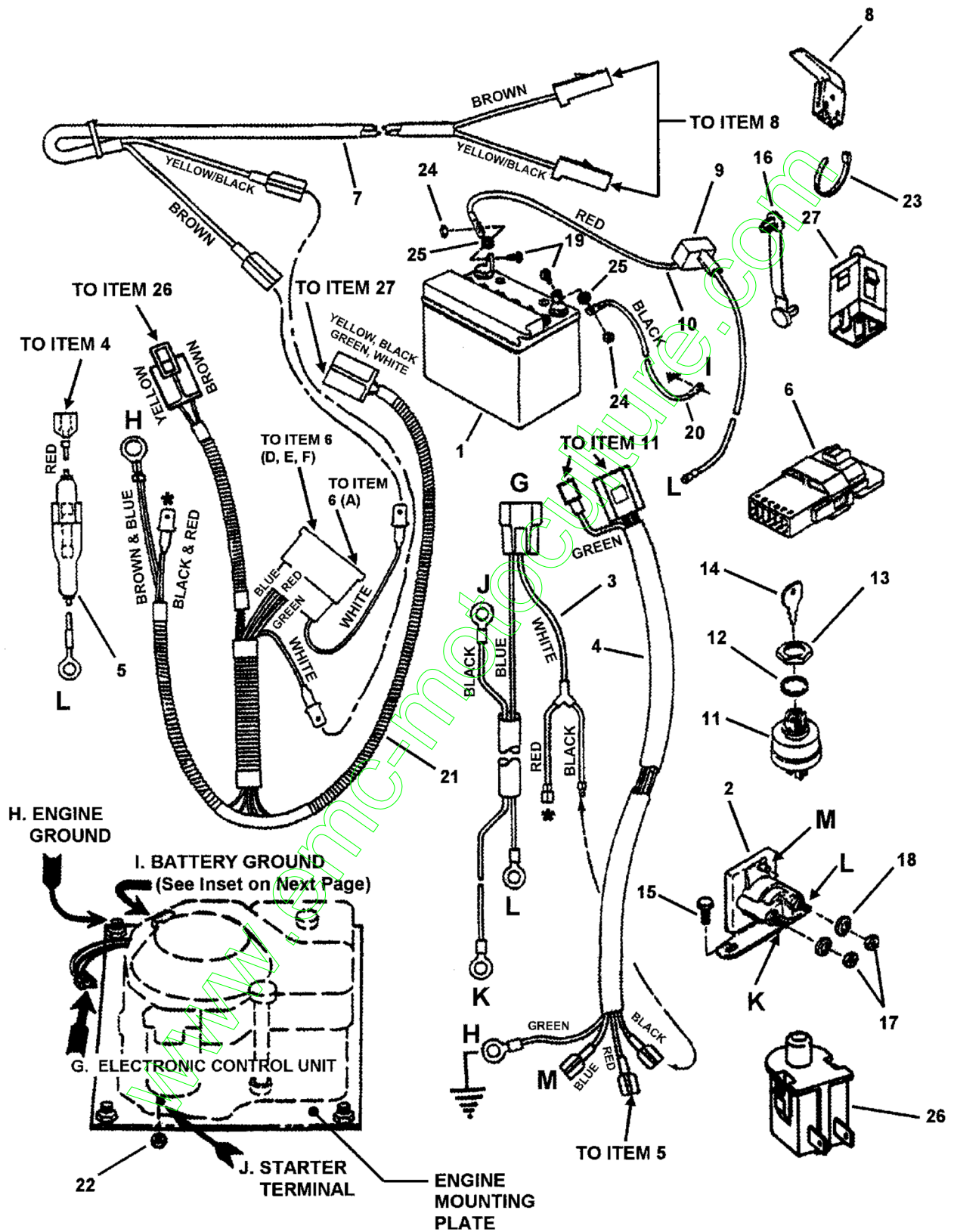
Footnotes:



Decal Group

Item	Part No	Qty	Description
1	7071916	1	DECAL, SNAPPER
2	7029948	1	DECAL, Battery Storage
3	7035973	1	DECAL, Safety Instructions (French/German)
3	7035974	1	DECAL, Safety Instructions (English/Dutch)
3	7101166	1	DECAL, 8-Panel Symbols, Euro RER
3	7073206	1	DECAL, Safety Instructions (Spanish/Italian)
4	7100739	1	DECAL, Deck Symbols- International
5	7046218	1	DECAL, Height of Cut
6	7022991	1	DECAL, 33 Inch (Hi-Vac)
7	7029947	1	DECAL, Battery Caution, Multi-Language
7	7101164	1	DECAL, Battery Orientation, Euro RER
8	7023980	1	DECAL, Back-Up Recoil (33" Kohler Engine Models)
8	7023982	1	DECAL, OHV (33" Kohler Engine Models)
8	7075777	1	DECAL, Engine, B&S E10 Powerbuilt
9	7029113	1	DECAL, Caution, Fuel Leakage (English)
9	7029114	1	DECAL, Caution, Fuel Leakage (Dutch)
9	7029345	1	DECAL, Caution, Fuel Leakage (French)
9	7029346	1	DECAL, Caution, Fuel Leakage (German)
9	7101165	1	DECAL, Caution, Fuel Leakage (Symbols)
9	7073199	1	DECAL, Caution, Fuel Leakage (Italian)
9	7073200	1	DECAL, Caution, Fuel Leakage (Spanish)
10	7024052	1	DECAL, Deflector, French/German
10	7029839	1	DECAL, Deflector Caution (English/Dutch)
10	7101167	1	DECAL, Blade Caution, Euro RER
11	7022215	1	DECAL, Brake Operation (German)
11	7022216	1	DECAL, Brake Operation (French)
11	7022218	1	DECAL, Brake Operation (Dutch)
11	7073201	1	DECAL, Brake Operation (Italian)
11	7073202	1	DECAL, Brake Operation (Spanish)
12	7028514	1	DECAL, Clutch Brake
13	7029776	1	DECAL, Euro Community (CE)
14	7074135	1	DECAL, European Noise Control (100 dB)
14	7100579	1	DECAL, European Noise Control (98 dB)
15	7074480	1	DECAL, No Mow In Reverse (Euro)
16	7029784	1	DECAL, Deck/Chute International Warning
17	7075608	1	DECAL, Service Parts, Euro
18	7101163	1	DECAL, Remove Battery, Symbols, Euro
--	7022841	1	DECAL, Danger, (Cut Finger) International Symbol (not shown) (used on 7800119 & 7800656 only; on discharge chute)

Footnotes:

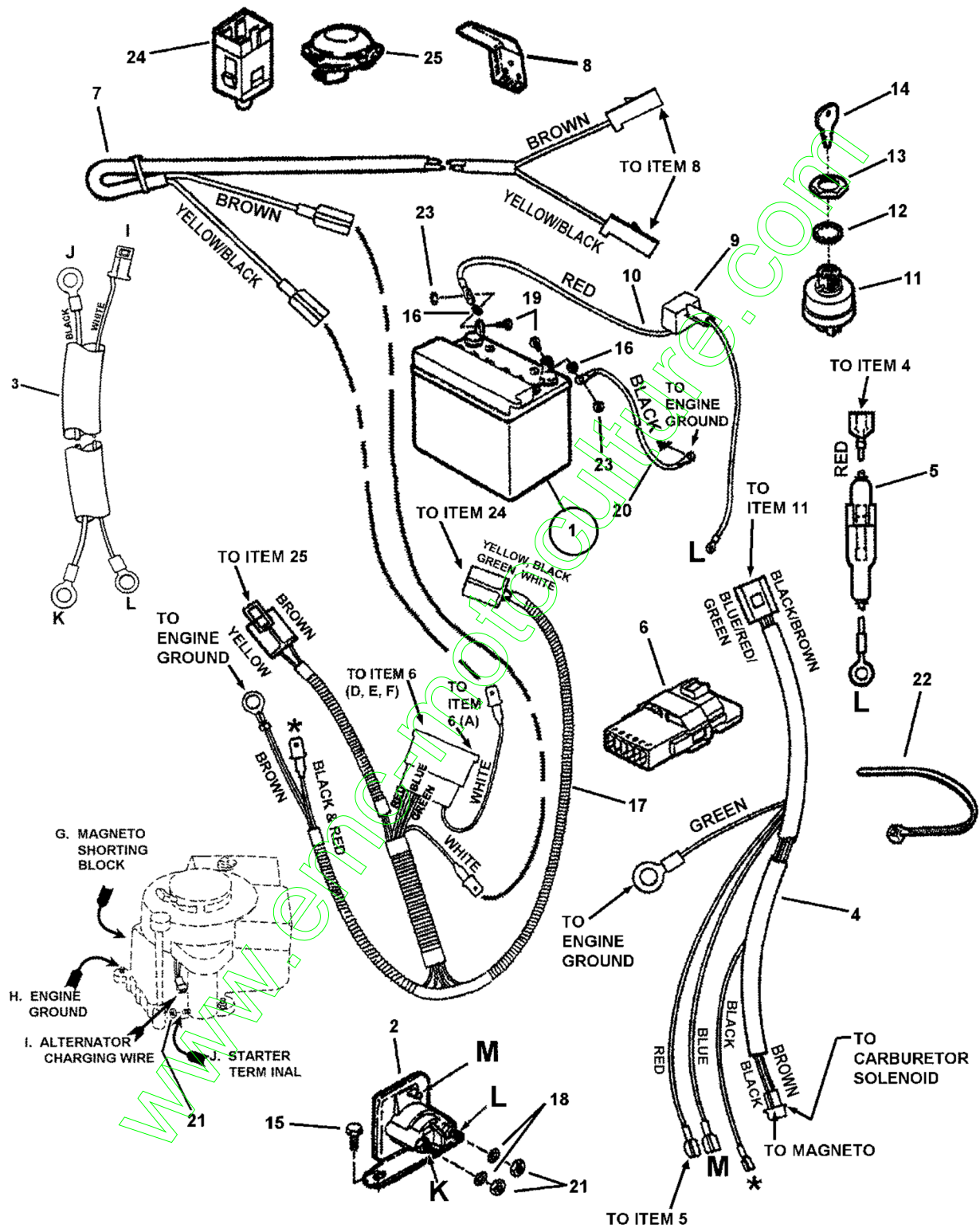


Electrical Group (Kohler 15 HP)

Item	Part No	Qty	Description
1	7060753	1	KIT, Battery, 12 Volt, 220CCA, Dry Charge (includes decal #7012358)
2	7075671	1	SOLENOID, Super-Trombetta (replaces 7018817)
3	7019321	1	HARNESS, Starter Wiring (Kohler Engines)
4	7074405	1	HARNESS, Ignition Wiring (15HP Kohler Engines)
5	7016168	1	HOLDER, Fuse (Includes Fuse)
--	7016169	1	FUSE, 10 Amp (Not shown)
6	7028606	1	INTERLOCK MODULE, Briggs & Kohler
7	7028386	1	HARNESS, (Deck Interlock Wiring)
8	7018524	1	SWITCH, Deck Interlock (NO)
9	7012444	1	COVER, Battery Cable
10	7019326	1	WIRE, Positive (Red, 17" long)
11	7073797	1	SWITCH, Ignition, 4 Terminal, Indak
12	7090880	1	WASHER, 5/8" Internal Tooth Lock
13	7015438	1	NUT, 5/8-32 Hex
14	7011138	1	IGNITION KEY, Pair
14	1737837	1	KEYS, Blister Pk (KIDS+MWRS DON'T MIX) English/French (set of two, one coated)
15	7090539	3	SCREW, 1/4-20 x 1/2" Hex Washer Self-Tap
16	7014451	1	CABLE TIE, 3.19" long
17	7090063	4	NUT, 1/4-20 Hex
18	7090053	2	WASHER, 1/4" Internal Tooth Lock
19	7027172	2	SCREW, 1/4-20 x 5/8" Hex Head Cap, GR 5
20	7028027	1	WIRE, Negative, Black (15" long)
21	7028678	1	HARNESS, Operator Presence Control (OPC) Wire
22	7091576	1	NUT, 1/4-20 Hex, GR 5 or B
23	7012080	2	CABLE TIE, 7"
24	7090372	2	NUT, 1/4-20 Hex Center Lock, GR 5 or B
25	7012485	2	RETAINER, 1/4" Bolt
26	7023354	1	SWITCH, Seat (NC)(Gray)
27	7022886	1	SWITCH, Operator Presence Control (OPC) Traction (NC/NO)

Footnotes:

Electrical Group (Briggs 17.5 HP)



Electrical Group (Briggs 17.5 HP)

Item	Part No	Qty	Description
1	7060753	1	KIT, Battery, 12 Volt, 220CCA, Dry Charge (includes decal #7012358)
2	7075671	1	SOLENOID, Super-Trombetta
3	7022788	1	HARNESS, Starter Wiring (Briggs, AC)
4	7074406	1	HARNESS, Ignition Wiring (14.5 B&S)
5	7016168	1	HOLDER, Fuse (Includes 7016169 10 AMP Fuse)
6	7028606	1	INTERLOCK MODULE, Briggs
7	7028386	1	HARNESS, (Deck Interlock Wiring)
8	7018524	1	SWITCH, Deck Interlock (NO)
9	7012444	1	COVER, Battery Cable
10	7019326	1	WIRE, Positive (Red, 17" long)
11	7026343	1	SWITCH, Ignition-Afterfire Solenoid
12	7090880	1	WASHER, 5/8" Internal Tooth Lock
13	7015438	1	NUT, 5/8-32 Hex
14	1737837	1	KEYS, Blister Pk (KIDS+MWRS DON'T MIX) English/French (set of two, one coated)
15	7090539	3	SCREW, 1/4-20 x 1/2" Hex Washer Self-Tap (or 7091122)
16	7012485	2	RETAINER, 1/4" Bolt
17	7028675	1	HARNESS WIRE, Operator Presence Control (OPC)
18	7090053	2	WASHER, 1/4" Internal Tooth Lock
19	7027172	2	SCREW, 1/4-20 x 5/8" Hex Head Cap GR 5 (or 7090072)
20	7028027	1	WIRE, Negative, Black (15" long)
21	7091576	2	NUT, 1/4-20 Hex, GR 5 or B (attaches to starter terminal)
22	7012080	2	CABLE TIE, 7"
23	7090372	2	NUT, 1/4-20 Hex Center Lock, GR 5 or B
24	7022886	1	SWITCH, Operator Presence Control (OPC) Traction (NC/NO)
25	7023354	1	SWITCH, Seat (NC)(Gray)
--	7016169	1	FUSE, 10 Amp (not shown)

Footnotes:

Wiring Schematic (Kohler 15 HP)

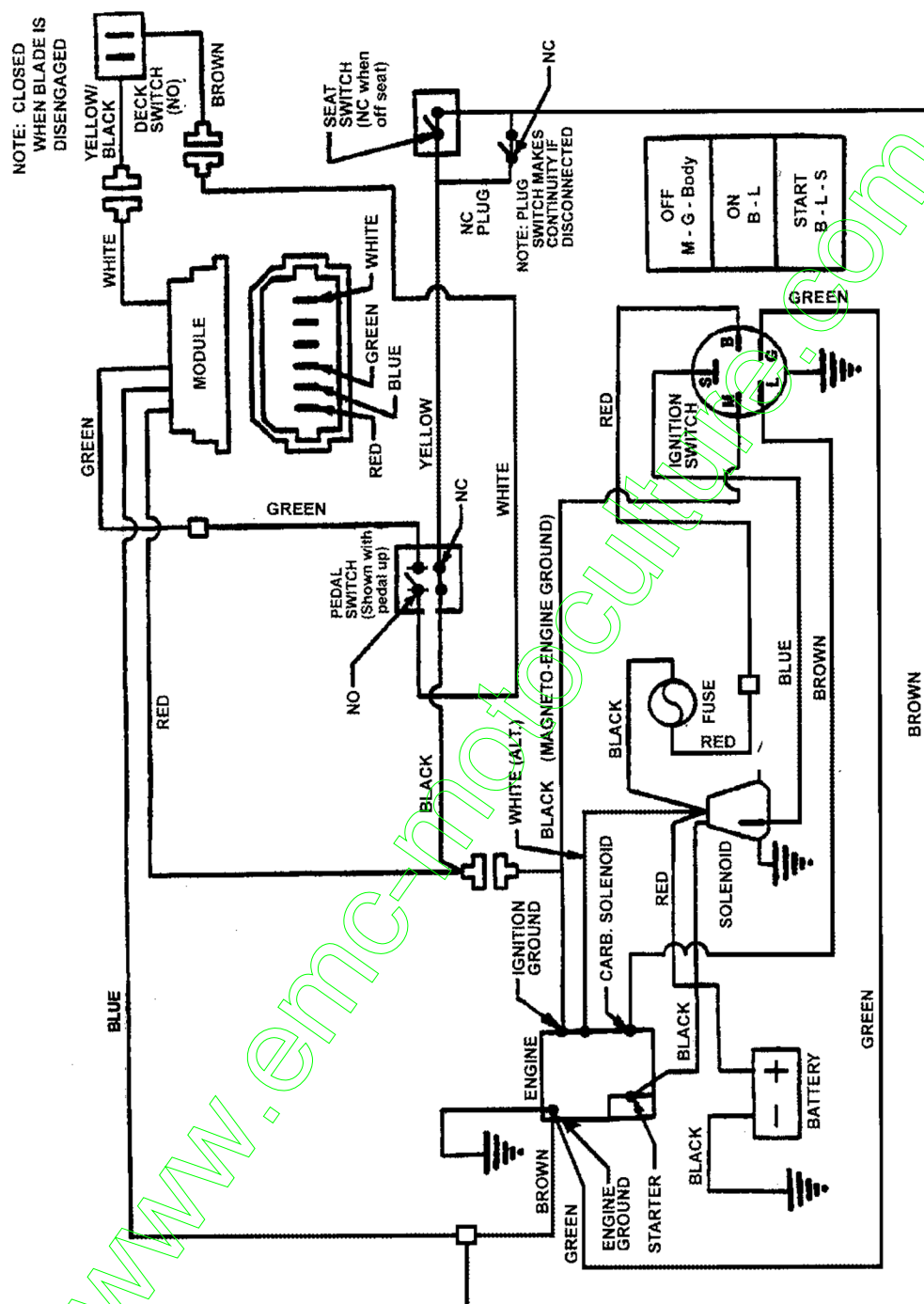
Item	Part No	Qty	Description
--	--		* Wiring Schematic incl. harness #'s 7019321, 7074405, 7028386 & 7028678

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Footnotes:

NOTE: * For harness # image & description see: Electrical Group (Kohler 15 HP) page.

Wiring Schematic (Briggs 17.5 HP)



Wiring Schematic (Briggs 17.5 HP)

Item	Part No	Qty	Description
--	--		* Wiring Schematic incl. harness #'s 7022788, 7074406, 7028386 & 7028675

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Footnotes:

NOTE: * For harness # image & description see: Electrical Group (Briggs 17.5 HP) page.

No
Diagram
Available

Parts List
Only

ACCESSORIES & ATTACHMENTS

Item	Part No	Qty	Description
	7060697	1	KIT, Dump Cart (used on All Rear Engine Riders)
	7060737	1	KIT, Gage Wheel (used on All 33" Deck Rear Engine Riders)
	7060941	1	KIT, Single Bag Catcher (used on All 25" Deck Rear Engine Riders)
	7060943	1	KIT, Single Bag Catcher (used on All 28" & 33" Deck Rear Engine Riders)
	7063281	1	KIT, Twin Bag Catcher (used on All 28" & 33" Deck Rear Engine Riders)
	7060947	1	KIT, Bag-N-Wagon (used on All 28" & 33" Deck Rear Engine Riders)
	7060948	1	KIT, 28" Thatcherizer (used on All series 7 & Newer Rear Engine Riders)
	7060964	1	KIT, Wagon Cover (used on All 28" & 33" Deck Rear Engine Riders)
	7072416	1	KIT, Front Weight (used on All series 7 & Newer Rear Engine Riders)
	7060959	1	KIT, 36" Dozer Blade (used on All Rear Engine Riders)
	7060653	1	KIT, Tire Chains (16 x 6.50-8 Tires) (used on All Rear Engine Riders)
	7060049	1	KIT, Tire Chains (16 x 4.50-8 Tires) (used on All Rear Engine Riders)
	7061049	1	KIT, Ninja Recycling Cover (used on All 25" Deck Rear Engine Riders)
	7061253	1	KIT, Ninja Recycling Cover (used on All 28" Deck Rear Engine Riders)
	7061255	1	KIT, Ninja Recycling Cover (used on All 33" Deck Rear Engine Riders)
	7060325	1	KIT, Drive Disc Puller (used on All RER Aluminum Drive Discs)
	7061872	1	HARDWARE BAG (Seat attachment & steering hdwe.) (used on model E281123BVE)
	7063292	1	HARDWARE BAG (Seat attachment & steering hdwe.) (used on models E2812523BVE, E2813523BVE & E331523KVE)
	7063039	1	HARDWARE BAG (Seat attachment & steering hdwe.) (used on model E2512523BVE)

Footnotes:

Hardware Identification & Torque Specifications

Torque Specification Chart FOR STANDARD METRIC MACHINE HARDWARE (Tolerance $\pm 20\%$)								
Property Class	5.6 Class 5.6		8.8 Class 8.8		10.9 Class 10.9		12.9 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.

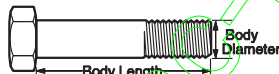


Nut, M8

Thread
Diameter (mm)

Inside
Diameter (in) Threads
per inch

Nut, 1/2-16



Screw, M8- 1.25 x 25

Thread
Diameter (mm) Distance between
threads (mm) Body
Length (mm)

Body
Diameter Threads
per inch Body
Length (in)

Screw, 1/2- 16 x 2



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the **Nominal size**, meaning the **inside diameter** is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the **threads per inch** (distance between threads).

When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the **Nominal size**, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the **threads per inch**, (1.25 thread diameter). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart FOR STANDARD MACHINE HARDWARE (Tolerance $\pm 20\%$)						
Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types

Hex Head Capscrew



Washer



Carriage Bolt



Lockwasher

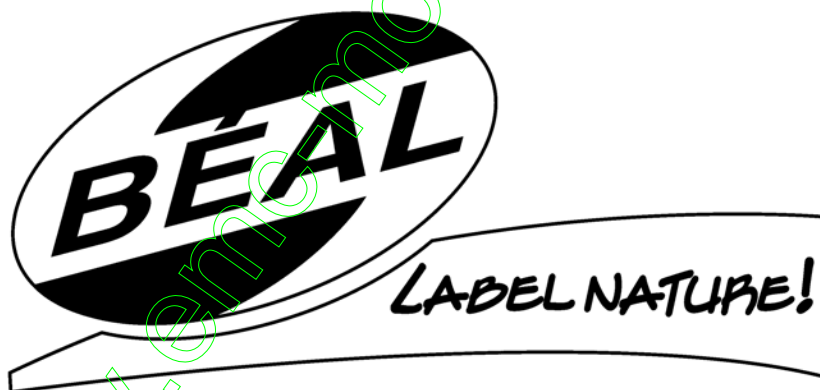


Hex Nut



Wrench & Fastener Size Guide

1/4" Bolt or Nut Wrench—7/16"	5/16" Bolt or Nut Wrench—1/2"	3/8" Bolt or Nut Wrench—9/16"	7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm



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