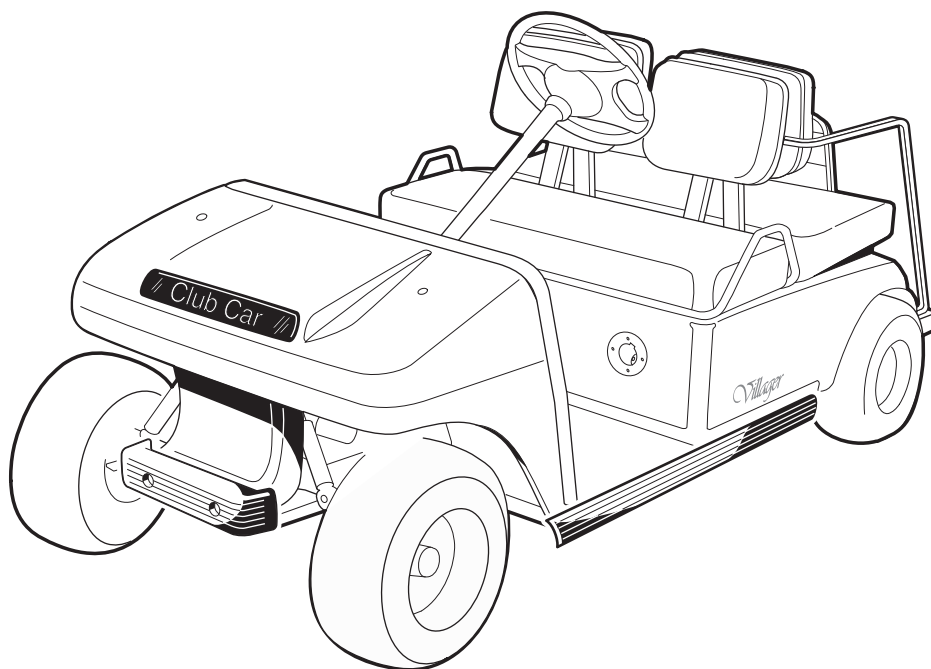




**2008
DS Villager 4
Illustrated Parts List**



Gasoline and Electric Vehicles

Manual Number 103373004
Edition Code 1007L0112K

USING THE ILLUSTRATED PARTS LIST

WARNING

- **This manual is to be used only for identification and ordering of service parts. Be sure to read and use the maintenance and service manual before attempting any vehicle repairs.**

This manual covers all DS Villager 4 vehicles built during the 2008 model year.

The manual is divided into sections. Note that there are two or three flags on the outside edge of each page. The first flag contains the section number of which that page is a part. The other flag (or flags) contains the letter G or E, signifying that the page pertains to the electric or gasoline vehicles only.

Use the Table of Contents to find the sections and pages that contain the parts and assemblies you seek. The Table of Contents lists section numbers, and under them, the individual page titles and numbers to be found in that section. The index can be used to find specific parts and assemblies. The index is divided into numerical and alphabetical listings with the page numbers in italic text.

There is a two-page spread for each individual page title in the Table of Contents. On the left-hand page is an illustration showing the parts in their relative positions; the parts are each tagged with an item number in a balloon. The right-hand page is the parts list page, and gives the page title at the top, then the item numbers (corresponding to the numbers on the illustration), part descriptions, and quantity of parts used.

Note that a part description may be indented. This indentation corresponds to a parts assembly level indicated by the numbers 1, 2, 3, and 4 at the top left corner of the parts description area of the parts list page. A part that is indented to *level 2* is a component of the *level 1* part (assembly) that it is listed under. A *level 3* part is a component of the *level 2* part that it is listed under, and a *level 4* part is a component of the *level 3* part preceding it. In each case, the part quantity given for a level 2, 3, or 4 part is *the quantity used per next higher level assembly of which it is a component*. A part that is not indented is a *level 1* part. This means that the quantity given is the quantity used per the portion of the vehicle illustrated on that particular spread.

HOW TO ORDER PARTS

Replacement parts and accessories can be obtained from our network of authorized dealers and distributors. You can obtain the name and phone number of your closest authorized Club Car dealer or distributor by visiting our web site at www.clubcar.com and clicking on the "Distributor Search" link or by calling our toll-free Service Parts and Technical Assistance hotline at (800) 872-2246 or (706) 863-3000, extension 3887.



P. O. Box 204658
Augusta, Georgia 30917-4658 USA
Telephone 706-863-3000
Service Parts Fax 706-855-7413
www.clubcar.com

NOTE: *This illustrated parts list represents the most current information at the time of publication. Club Car, Inc. is continually working to further improve its vehicles and other products. These improvements may affect the parts used to service the vehicle. Any modification and/or significant change in specifications will be forwarded to all Club Car and Carryall distributors/dealers and will, when applicable, appear in future editions of this illustrated parts list.*

Club Car, Inc. reserves the right to change specifications and designs at any time without notice and without the obligation of making changes to units previously sold.

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2008 DS Villager 4 Gasoline and Electric Vehicle Illustrated Parts List

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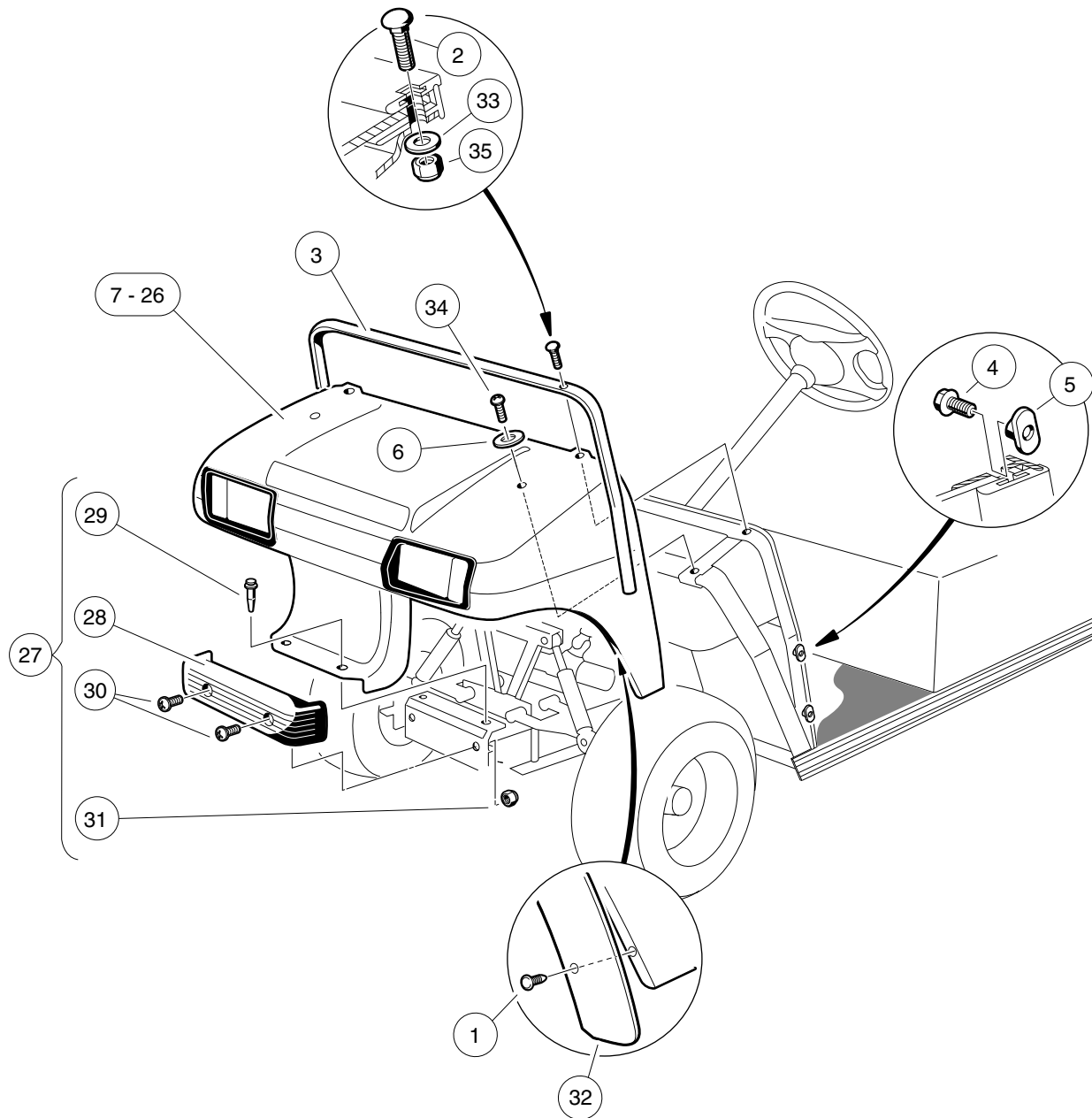
SECTION i – INDEX

BODY AND TRIM

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FRONT BODY AND TRIM

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1010434</u>	Barrel - Plastic	12
2	<u>1010435</u>	Bolt, Carriage, 5/16-18 X 1.00	2
3	<u>1011014</u>	Trim, Cowl	1
4	<u>1011017</u>	Screw, #8-32 X 0.375	6
5	<u>1011394</u>	T-Nut Package (Set of 4)	1
6	<u>1015075</u>	Washer, 5/16 Flat Type A	2
7	<u>101692501</u>	Cowl, TPO, Beige	1
8	<u>101692502</u>	Cowl, TPO, White	1
9	<u>101692506</u>	Cowl, TPO, Red	1
10	<u>101692509</u>	Cowl, TPO, Pacific Blue (Royal Blue)	1
11	<u>101692510</u>	Cowl, TPO, Dark Green	1
12	<u>101692511</u>	Cowl, TPO, Black	1
13	<u>101692512</u>	Cowl, TPO, Classic Blue (Navy)	1
14	<u>101692513</u>	Cowl, TPO, Burgundy	1
15	<u>101692514</u>	Cowl, TPO, Dark Gray	1
16	<u>101692515</u>	Cowl, TPO, Safety Yellow	1
17	<u>101693901</u>	Cowl with Headlight Opening, TPO, Beige	1
18	<u>101693902</u>	Cowl with Headlight Opening, TPO, White	1
19	<u>101693906</u>	Cowl with Headlight Opening, TPO, Red	1
20	<u>101693908</u>	Cowl with Headlight Opening, TPO, Pacific Blue (Royal Blue)	1
21	<u>101693909</u>	Cowl with Headlight Opening, TPO, Dark Green	1
22	<u>101693910</u>	Cowl with Headlight Opening, TPO, Black	1
23	<u>101693911</u>	Cowl with Headlight Opening, TPO, Classic Blue (Navy)	1
24	<u>101693912</u>	Cowl with Headlight Opening, TPO, Burgundy	1
25	<u>101693913</u>	Cowl with Headlight Opening, TPO, Dark Gray	1
26	<u>101693914</u>	Cowl with Headlight Opening, TPO, Safety Yellow	1
27	<u>1017080</u>	Kit, Front Bumper (includes items 28 through 31)	1
28	<u>1016868</u>	Front Bumper	1
29	<u>1016967</u>	Blind Rivet, Push Type	2
30	<u>7251</u>	Screw, 5/16-18 x 1.0 Truss-Head	2
31	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	2
32	<u>101870401</u>	Fender Extrusion	2
33	<u>1241</u>	Washer, 5/16 Type A Flat	2
34	<u>7251</u>	Screw, 5/16-18 x 1.0 Truss-Head	2
35	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	2

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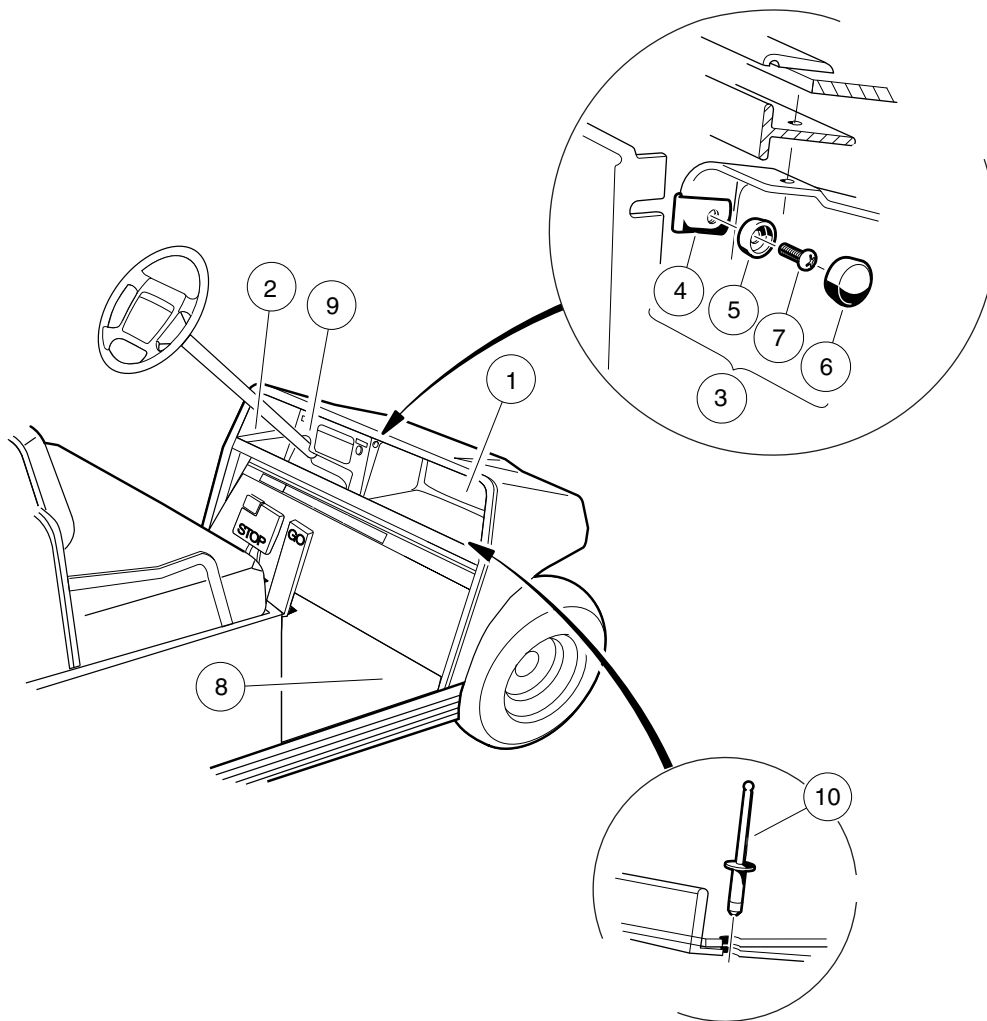
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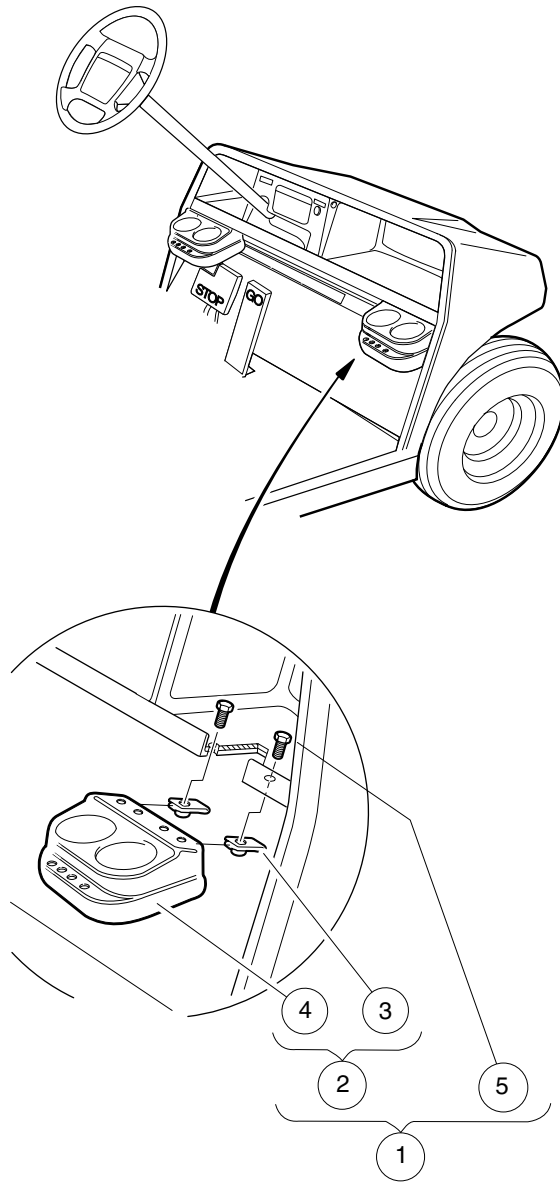
DASH COMPONENTS

ITEM	PART NO.	DESCRIPTION	QTY	1
		1 2 3 4		G
1	<u>1013343</u>	Dash Component, Passenger-Side, Black	1	E
2	<u>1013344</u>	Dash Component, Driver-Side	1	
3	<u>1014645</u>	Snap Washer Kit, Black (includes items 4 through 7)	2	
4	<u>1011019</u>	Nut, Speed	1	
5	<u>1011382</u>	Washer, #10 Pan-Head Screw	1	
6	<u>1013494</u>	Cover, Screw Head	1	
7	1620	Screw, #10-16 X 0.75 Pan-Head Tap	1	
8	<u>101503202</u>	Floormat	1	
9	<u>101660404</u>	Dash Panel, Black Center	1	
10	<u>7973</u>	Rivet, 3/16 X .400 Blind	5	

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BEVERAGE HOLDER

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101708301	Drink Holder Kit (includes items 2 through 5)	2
2	1016811	Holder, Dual Cup (includes items 3 and 4)	1
3	1016952	U-Nut, 1/4-20	2
4	N/A	Cup Holder, Dual	1
5	7847	Screw, 1/4-20 X 0.75 Hex-Head Cap	2

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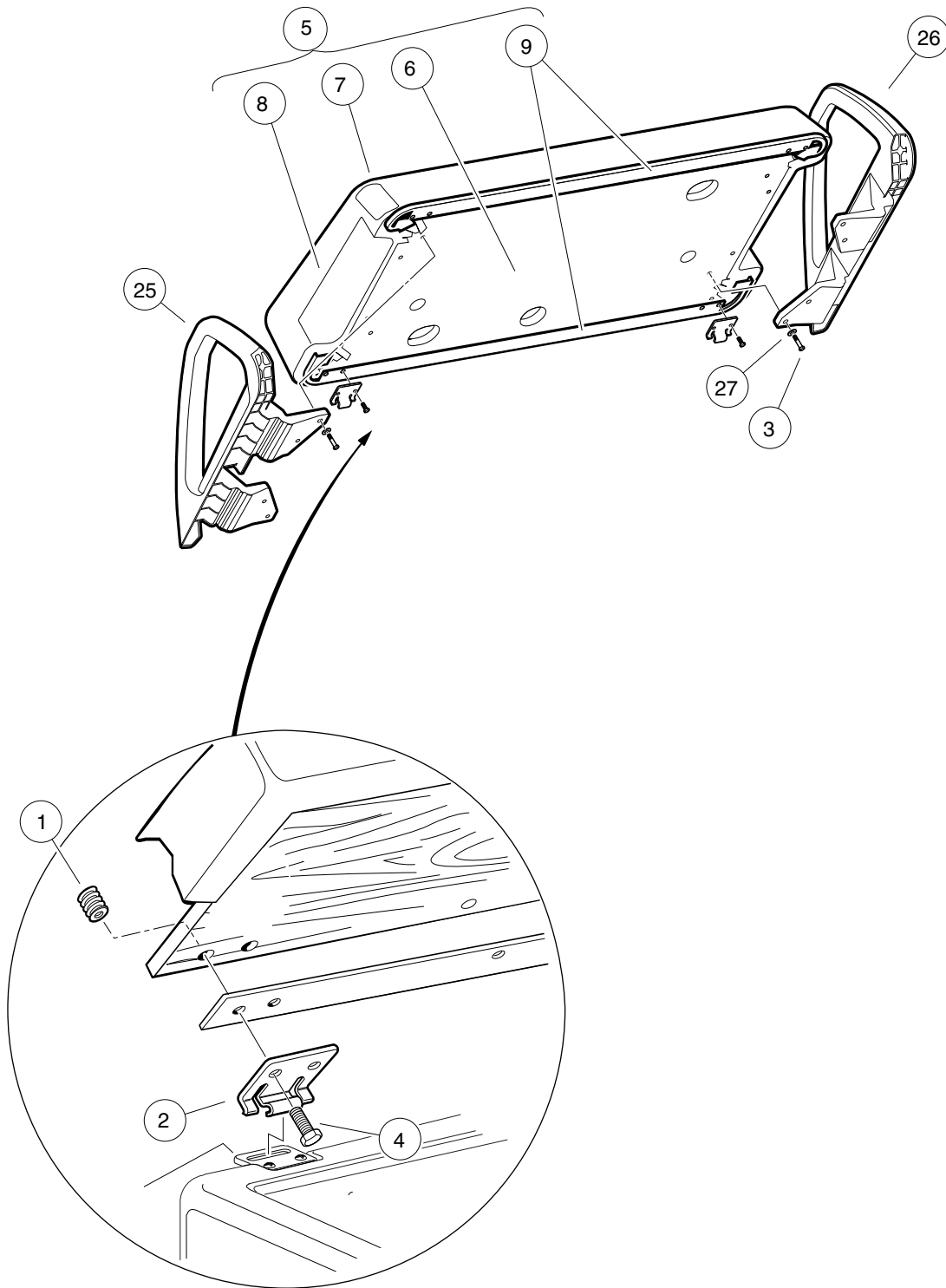
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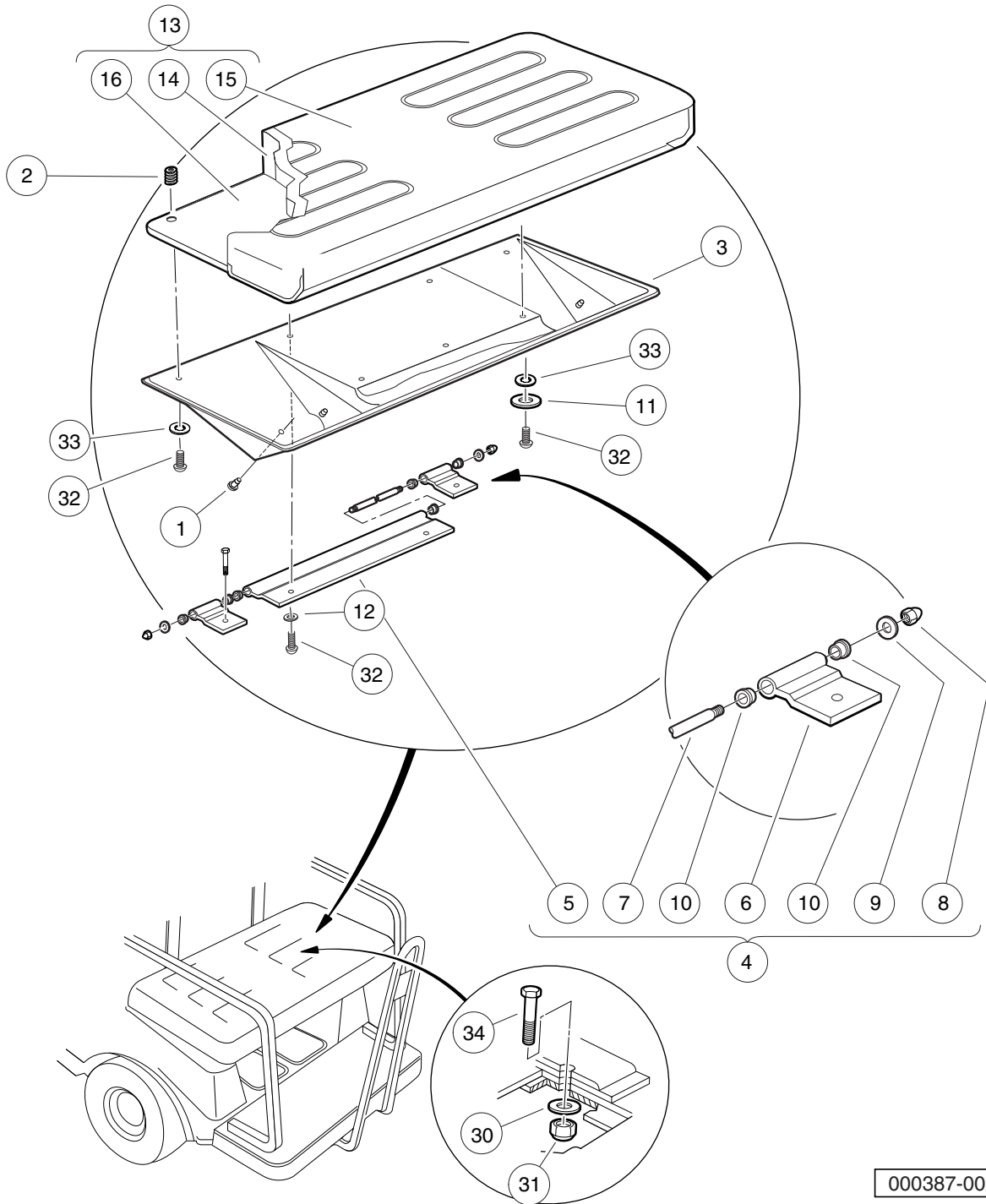
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FRONT SEAT BOTTOM AND ARMRESTS

ITEM	PART NO.	DESCRIPTION	QTY	1 G E
		1 2 3 4		
1	1010543	Insert - Wood	4	
2	<u>1011652</u>	Hinge Plate	2	
3	1016916	Screw, 1/4-20 X 1.50 Hex-Head Cap	8	
4	<u>101954301</u>	Screw, 1/4-20 X 0.75 Hex-Head Cap	4	
5	<u>102174201</u>	Seat Bottom Assembly, Buff (includes items 6 through 9)	1	
6	N/A	Plywood Assy	1	
7	<u>101998211</u>	Vinyl Cover Seat Btm - Buffsvc	1	
8	N/A	Foam, Seat	1	
9	<u>101998501</u>	Gasket, Seat	2	
10	<u>102174202</u>	Seat Bottom Assembly, White (includes items 11 through 14)	1	
11	N/A	Plywood Assy	1	
12	<u>101998212</u>	Vinyl Cover, Seat Bottom, White	1	
13	N/A	Foam, Seat	1	
14	<u>101998501</u>	Gasket, Seat	2	
15	<u>102174204</u>	Seat Bottom Assembly, Black (includes items 16 through 19)	1	
16	N/A	Plywood Assy	1	
17	<u>101998214</u>	Vinyl Cover, Seat Bottom, Black	1	
18	N/A	Foam, Seat	1	
19	<u>101998501</u>	Gasket, Seat	2	
20	<u>102174205</u>	Seat Bottom Assembly, Gray (includes items 21 through 24)	1	
21	N/A	Plywood Assy	1	
22	<u>101998215</u>	Vinyl Cover, Seat Bottom, Gray	1	
23	N/A	Foam, Seat	1	
24	<u>101998501</u>	Gasket, Seat	2	
25	<u>103246701</u>	Hip Restraint, Drvr Side	1	
26	<u>103246801</u>	Hip Restraint, Pass Side	1	
27	<u>332</u>	Washer, 1/4 Type A Narrow Flat	8	
Note: Sub-components contained in items 10, 15, and 20 are the same as those shown for item 5, except for the vinyl seat covers.				

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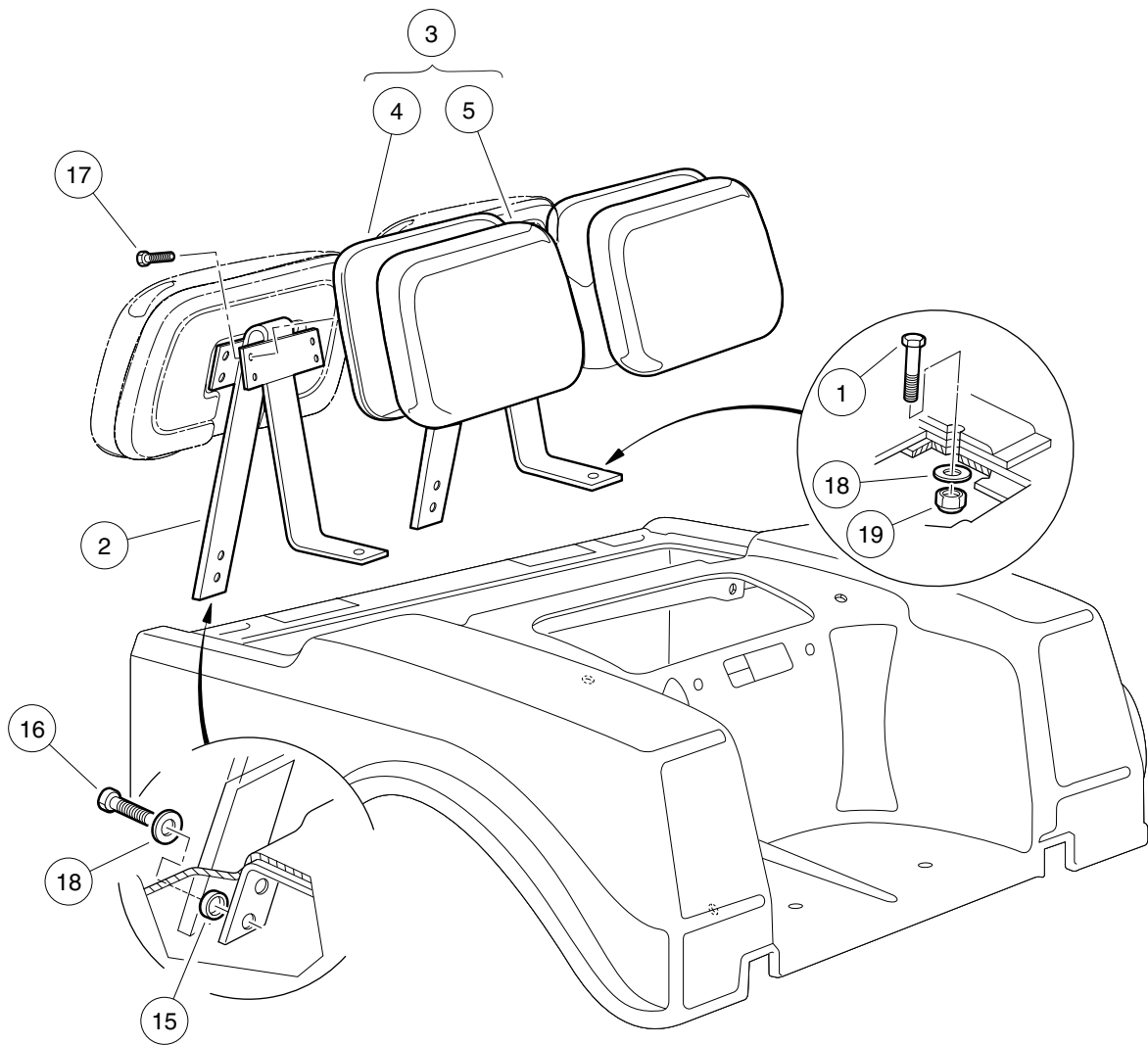
REAR-FACING SEAT BOTTOM – VILLAGER 2+2

ITEM	PART NO.	DESCRIPTION	QTY	1 G E
		1 2 3 4		
1	<u>1010436</u>	Bumper, Rubber	1	
2	<u>1010543</u>	Insert - Wood	7	
3	<u>1011210</u>	Seat Support 4-Passenger	1	
4	<u>1011219</u>	Hinge Assembly 4 Passenger (includes items 5 through 10)	1	
5	<u>1011220</u>	Hinge Long 4 Passenger	1	
6	<u>1011221</u>	Hinge Short 4 Passenger	2	
7	<u>1011222</u>	Pin, Hinge, Long, 4-Pass	1	
8	<u>1015091</u>	Nut, 1/4-20 Stainless-Steel Center-Lock Cap	2	
9	<u>332</u>	Washer, 1/4 Type A Narrow Flat	2	
10	<u>8028</u>	Rotor Stop, FNR	6	
11	<u>1011578</u>	Washer, 5/16 Type B Flat	3	
12	<u>1014007</u>	Washer, 1/4 Flat	2	
13	<u>101564804</u>	Seat Bottom Assembly, Buff (includes items 14 through 16)	1	
14	N/A	Foam, Seat	1	
15	<u>101562711</u>	Vinyl Cover, Seat Bottom, Buff	1	
16	N/A	Plywood Assy	1	
17	<u>101564805</u>	Seat Bottom Assembly, White (includes items 18 through 20)	1	
18	N/A	Foam, Seat	1	
19	<u>101562712</u>	Vinyl Cover, Seat Bottom, White	1	
20	N/A	Plywood Assy	1	
21	<u>101564807</u>	Seat Bottom Assembly, Gray (includes items 22 through 24)	1	
22	N/A	Foam, Seat	1	
23	<u>101562715</u>	Vinyl Cover, Seat Bottom, Gray	1	
24	N/A	Plywood Assy	1	
25	<u>101564808</u>	Seat Bottom Assembly, Black (includes items 26 through 28)	1	
26	N/A	Foam, Seat	1	
27	<u>101562714</u>	Vinyl Cover, Seat Bottom, Black	1	
28	N/A	Plywood Assy	1	
29	<u>1016916</u>	Screw, 1/4-20 X 1.50 Hex-Head Cap	2	
30	<u>1241</u>	Washer, 5/16 Type A Flat	2	
31	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	2	
32	<u>8251</u>	Screw, 1/4-20 X 1.0 Truss-Head Machine	5	
33	<u>8304</u>	Lockwasher, 1/4 Type A Int.tth	5	
34	<u>8963</u>	Screw, 5/16-18 X 1.75 Hex-Head Cap	2	
Note: Sub-components contained in items 17, 21, and 25 are the same as those shown for item 13, except for the vinyl seat covers.				

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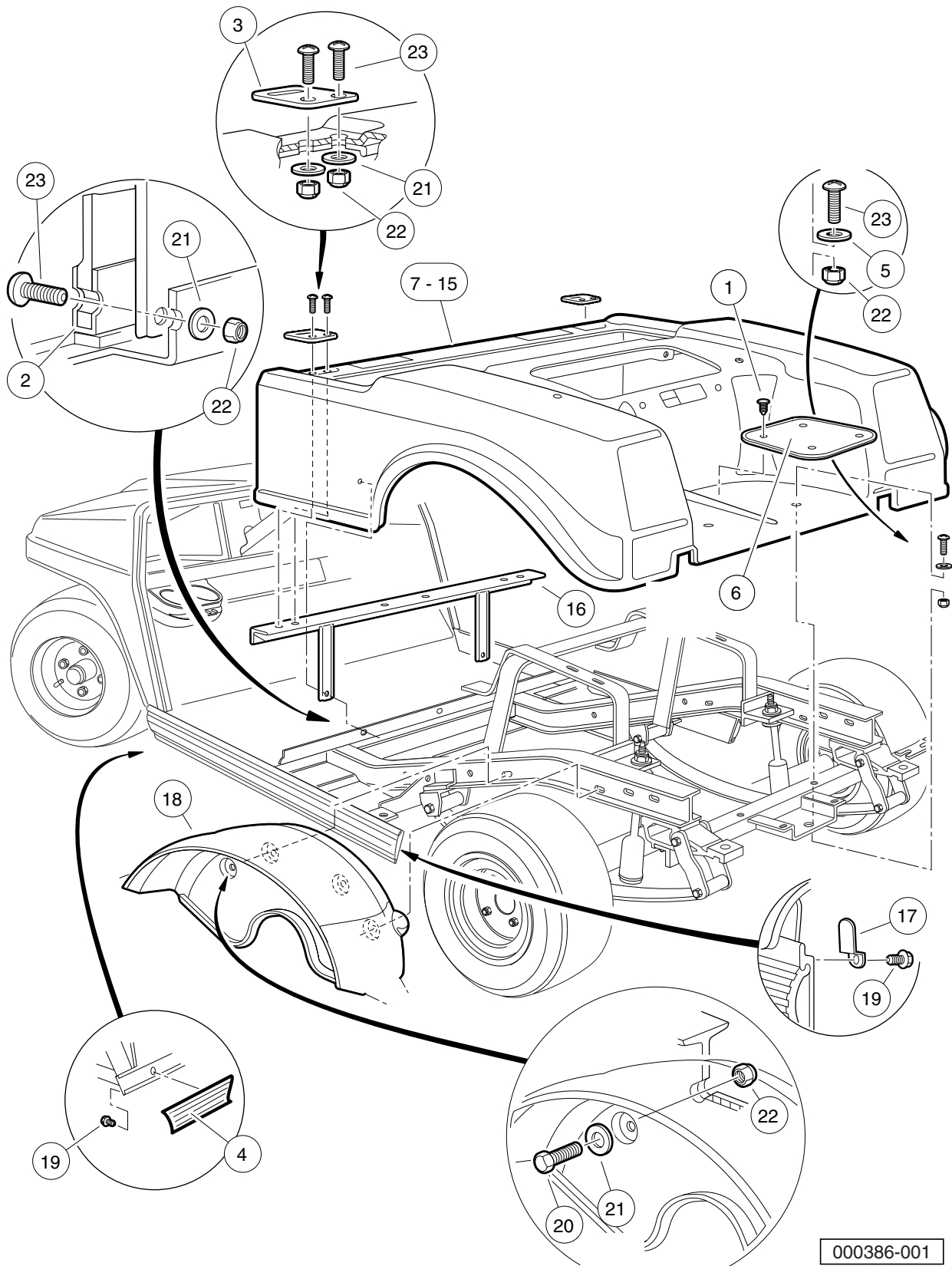
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REAR-FACING SEAT BACKS AND SUPPORTS

ITEM	PART NO.	DESCRIPTION	QTY	1 G E
		1 2 3 4		
1	<u>1010577</u>	Bolt, Hex-Head, 5/16-18 X 1.50	2	
2	<u>1011182</u>	Seat Back Assy19804-pass'	2	
3	<u>101565202</u>	Seat Back Assembly, White w/Black Cap	4	
4	<u>101565204</u>	Seat Back Assembly, Beige w/Black Cap	4	
5	<u>101565205</u>	Seat Back Assembly, Black w/Black Cap	4	
6	<u>101565206</u>	Seat Back Assembly, Gray w/Black Cap	4	
7	<u>1017774</u>	Body Spacer	4	
8	<u>101910401</u>	Screw, 5/16-18 X 1.25 Thrd Frm	4	
9	<u>101954301</u>	Screw, 1/4-20 X 0.75 Hex-Head Cap	16	
10	<u>1241</u>	Washer, 5/16 Type A Flat	6	
11	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	2	

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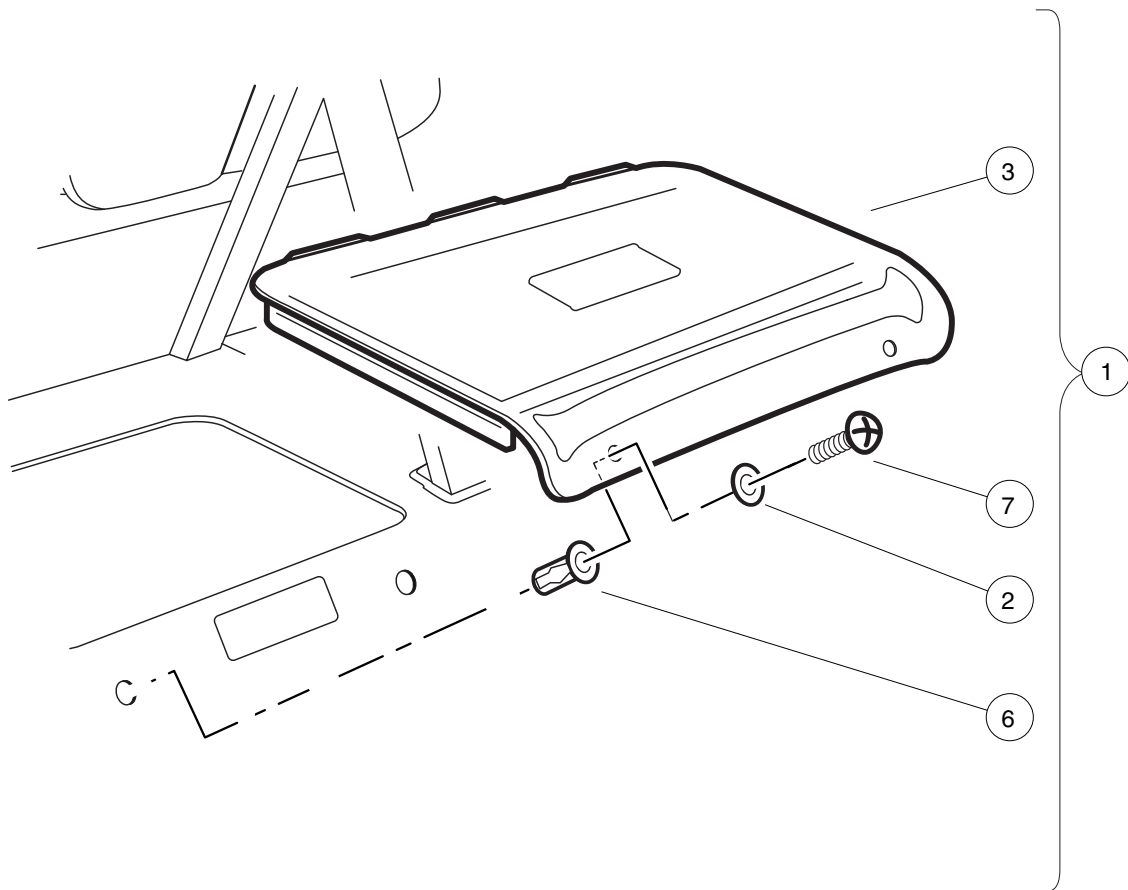
REAR BODY AND FENDERS – GASOLINE VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY	1 G E
		1 2 3 4		
1	<u>1010434</u>	Barrel - Plastic	8	
2	<u>1010993</u>	Body Kick Plate	1	
3	<u>1012412</u>	Body, Hinge Plate	2	
4	<u>1013983</u>	Bumper, Side Trim	2	
5	<u>1014306</u>	Washer, 1/4" Type B Flat	2	
6	<u>1014392</u>	Bag Rest Mat	2	
7	<u>101692601</u>	Body, Beige, TPO, Rear	1	
8	<u>101692602</u>	Body, White, TPO, Rear	1	
9	<u>101692604</u>	Body, Gray, TPO, Rear	1	
10	<u>101692606</u>	Body, Red, TPO, Rear	1	
11	<u>101692609</u>	Body, Pacific Blue (Royal Blue), TPO, Rear	1	
12	<u>101692610</u>	Body, Dark Green, TPO, Rear	1	
13	<u>101692611</u>	Body, Black, TPO, Rear	1	
14	<u>101692612</u>	Body, Classic Blue, (Navy) TPO, Rear	1	
15	<u>101692613</u>	Body, Burgundy, TPO, Rear	1	
16	<u>1017141</u>	Body Support Weldment	1	
17	<u>1017748</u>	Body Keeper Clip	2	
18	<u>1017936</u>	Fender, Inner	2	
19	<u>102310701</u>	Screw, #8-18 x 0.375, Hex-Head Washer	10	
20	<u>304</u>	Screw, 1/4-20 X 1.0 Hex-Head Cap	4	
21	<u>332</u>	Washer, 1/4 Type A Narrow Flat	10	
22	<u>8233</u>	Locknut, 1/4-20 Nylon Insert	12	
23	<u>8251</u>	Screw, 1/4-20 X 1.0 Truss-Head Machine	8	

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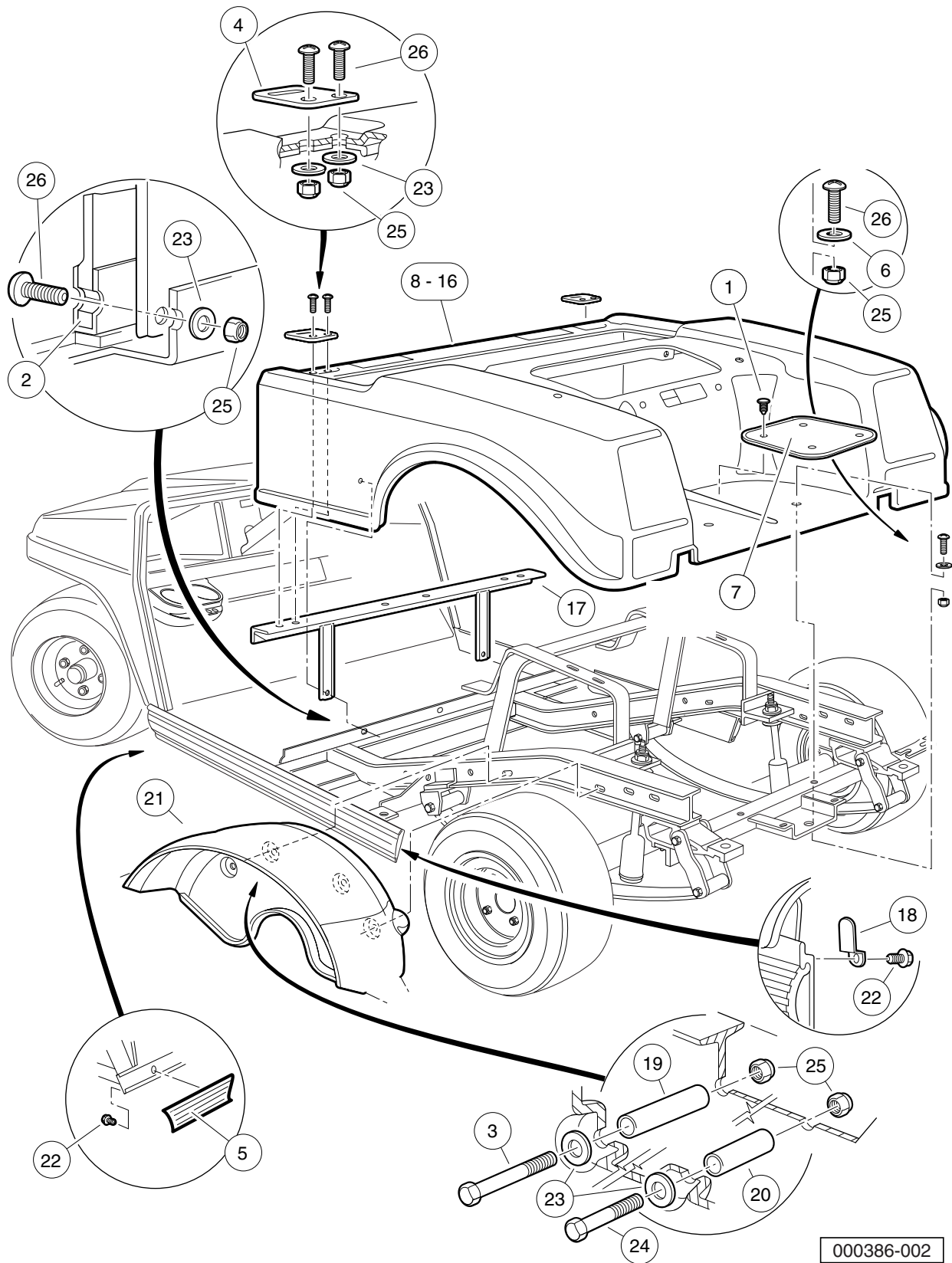
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REAR ACCESS DOOR

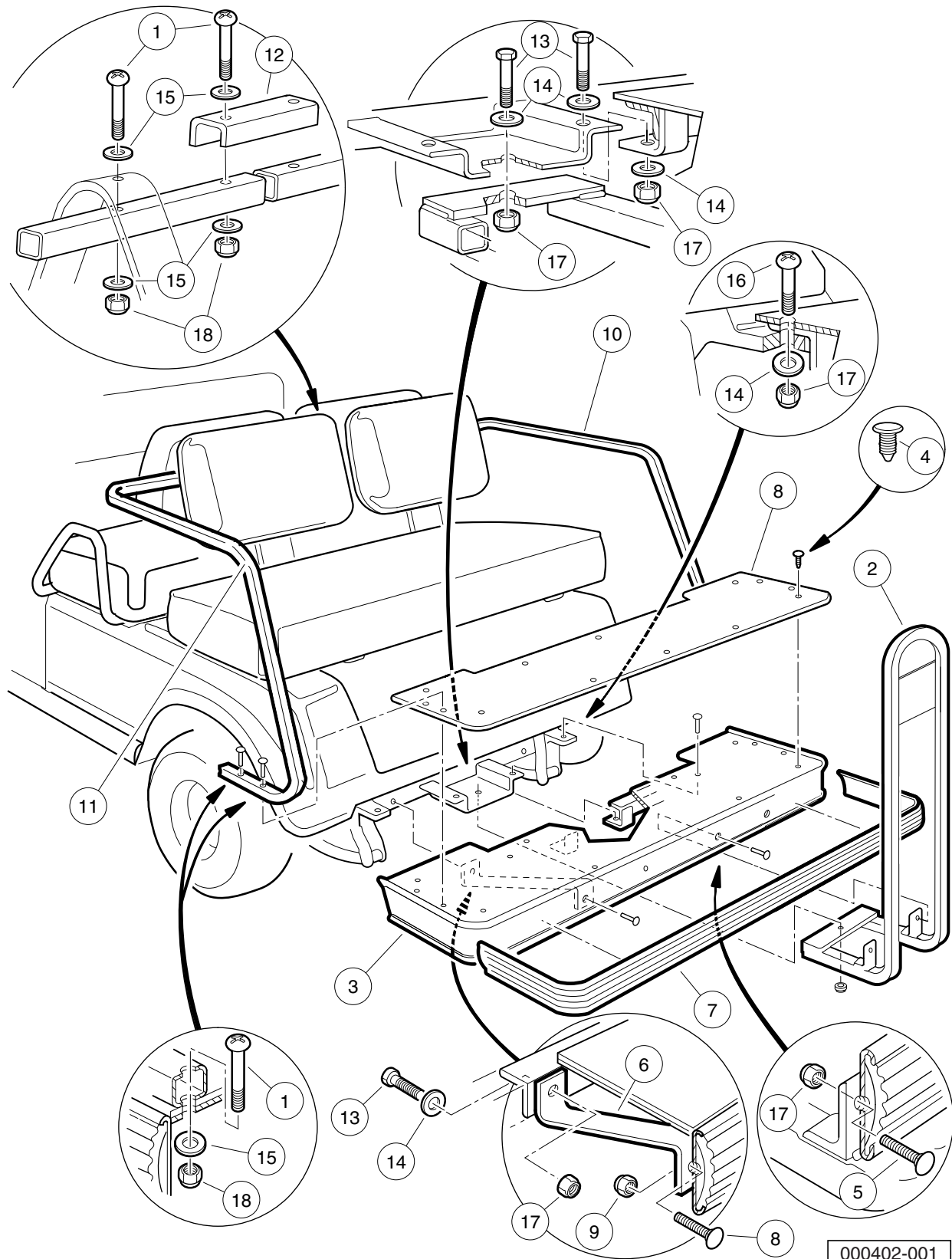
ITEM	PART NO.	DESCRIPTION	QTY	1	G	E
		1 2 3 4				
1	<u>1013218</u>	Kit, Access Door Black (includes items 2 through 7)	1			
2	<u>1012581</u>	Washer, 0.609-inch OD, Nylon Cup	2			
3	<u>1013032</u>	Molded Access Door Black	1			
4	<u>1013216</u>	Plug, Button	2			
5	N/A	Instruction Sheet Access Door	1			
6	<u>1015525</u>	Nut, 1/4-20 Blind	2			
7	<u>8251</u>	Screw, 1/4-20 X 1.0 Truss-Head Machine	2			

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REAR BODY AND FENDERS – ELECTRIC VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY	1 G E
		1 2 3 4		
1	<u>1010434</u>	Barrel - Plastic	8	
2	<u>1010993</u>	Body Kick Plate	1	
3	<u>1012159</u>	Bolt, 1/4-20 X 2.75 Hex-Head	2	
4	<u>1012412</u>	Body, Hinge Plate	2	
5	<u>1013983</u>	Bumper, Side Trim	2	
6	<u>1014306</u>	Washer, 1/4" Type B Flat	2	
7	<u>1014392</u>	Bag Rest Mat	2	
8	<u>101693301</u>	Body, Beige, TPO, Rear	1	
9	<u>101693302</u>	Body, White, TPO, Rear	1	
10	<u>101693304</u>	Body, Gray, TPO, Rear	1	
11	<u>101693306</u>	Body, Red, TPO, Rear	1	
12	<u>101693309</u>	Body, Pacific Blue (Royal Blue), TPO, Rear	1	
13	<u>101693310</u>	Body, Dark Green, TPO, Rear	1	
14	<u>101693311</u>	Body, Black, TPO, Rear	1	
15	<u>101693312</u>	Body, Classic Blue, TPO, Rear	1	
16	<u>101693313</u>	Body, Burgundy, TPO, Rear	1	
17	<u>1017141</u>	Body Support Weldment	1	
18	<u>1017748</u>	Body Keeper Clip	2	
19	<u>1017814</u>	Spacer, 1.88-inch	2	
20	<u>1017815</u>	Spacer, 0.5-inch	2	
21	<u>1017936</u>	Fender, Inner	2	
22	<u>102310701</u>	Screw, #8-18 x 0.375, Hex-Head Washer	10	
23	<u>332</u>	Washer, 1/4 Type A Narrow Flat	10	
24	<u>7479</u>	Screw, 1/4-20 X 1.25 Hex-Head Cap	2	
25	<u>8233</u>	Locknut, 1/4-20 Nylon Insert	12	
26	<u>8251</u>	Screw, 1/4-20 X 1.0 Truss-Head Machine	8	

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REAR FOOTREST AND HANDRAILS

ITEM	PART NO.	DESCRIPTION	QTY	1 G E
		1 2 3 4		
1	<u>1011988</u>	Screw, 1/4-20 X 2.00 Phillips Truss-Head	8	
2	<u>1016842</u>	Rear Seat Handrail Weldment	1	
3	<u>101841101</u>	Rear Foot Rest Asm (includes items 4 through 9)	1	
4	<u>1010434</u>	Barrel - Plastic	8	
5	<u>1010435</u>	Bolt, Carriage, 5/16-18 X 1.00	4	
6	<u>1016668</u>	Connecting Bar	2	
7	<u>1016835</u>	Bumper, Side Trim	1	
8	<u>101840901</u>	Foot Rest Mat	1	
9	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	2	
10	<u>101841201</u>	Armrest, Seat, Rear, Right-Hand	1	
11	<u>101841202</u>	Armrest, Seat, Rear, Left-Hand	1	
12	<u>101841301</u>	Armrest Bracket	1	
13	<u>1218</u>	Screw, 5/16-18 X 1.25 Hex-Head Cap	5	
14	<u>1241</u>	Washer, 5/16 Type A Flat	9	
15	<u>332</u>	Washer, 1/4 Type A Narrow Flat	8	
16	<u>7410</u>	Screw, 5/16-18 X 1.25 Truss Hd	2	
17	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	9	
18	<u>8233</u>	Locknut, 1/4-20 Nylon Insert	8	

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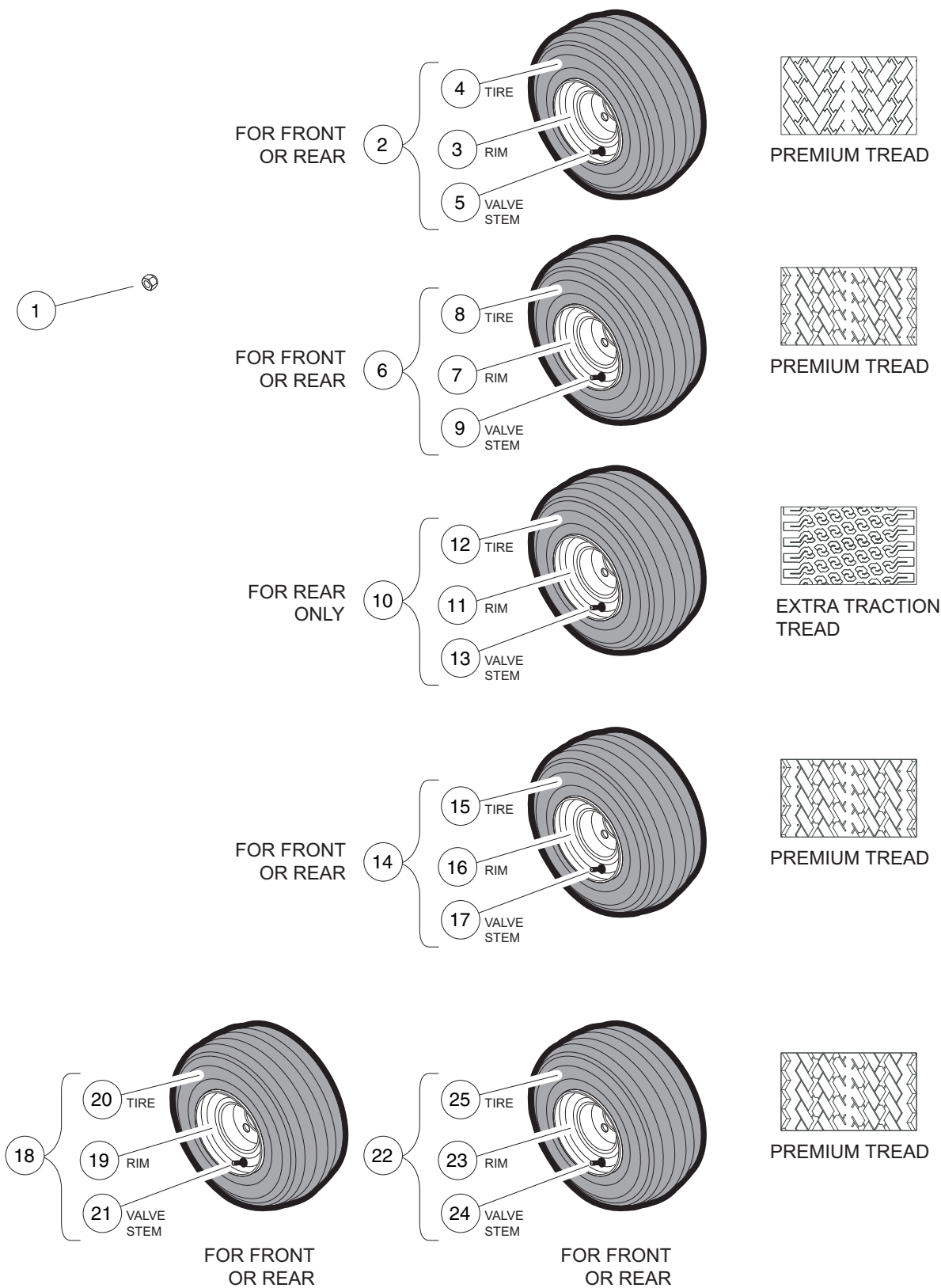
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WHEELS AND TIRES

2

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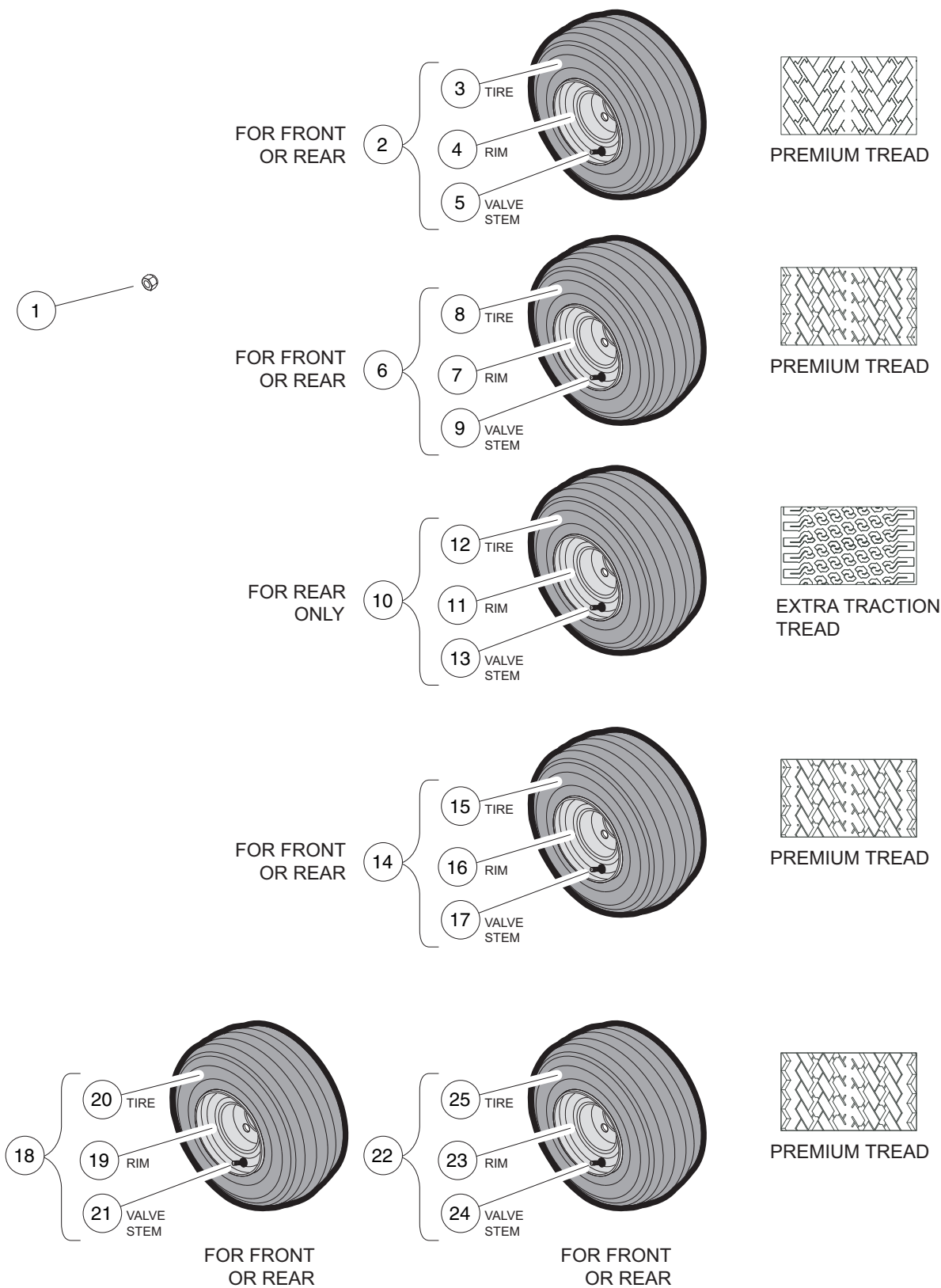
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000269-001

WHEELS AND TIRES (WHITE RIMS)

ITEM	PART NO.	DESCRIPTION	QTY	2	G	E
		1 2 3 4				
1	<u>1010984</u>	.500-20 Unf Lug Nut	16			
2	<u>101651402</u>	Tire/Wheel Asm, White, Premium Tread (includes items 3 through 5)	4			
3	<u>1014771</u>	Wheel Rim, White	1			
4	<u>101567202</u>	Tire, Unmounted, Links 18 x 8.50-8	1			
5	<u>7310</u>	Valve Stem	1			
6	<u>101651406</u>	Tire/Wheel Asm, White, Premium Tread, 6-Ply (includes items 7 through 9)	4			
7	<u>1014771</u>	Wheel Rim, White	1			
8	<u>101737002</u>	Tire, Unmounted	1			
9	<u>7310</u>	Valve Stem	1			
10	<u>101651407</u>	Tire/Wheel Asm, White, Extra-Traction, 6-Ply (includes items 11 through 13)	2			
11	<u>1014771</u>	Wheel Rim, White	1			
12	N/A	Tire, Unmounted Xtrac 18 x 8.50-8	1			
13	<u>7310</u>	Valve Stem	1			
14	<u>101651409</u>	Tire/Wheel Asm, White, Premium Tread, 6.5-inch (includes items 15 through 17)	4			
15	<u>101884901</u>	Tire, Unmounted, Power Rib 18 x 6.50-8	1			
16	<u>101918401</u>	Wheel Rim, Beige	1			
17	<u>7310</u>	Valve Stem	1			
18	<u>101651412</u>	Tire/Wheel Asm, White, Duro Premium Tread (includes items 19 through 21)	4			
19	<u>1014771</u>	Wheel Rim, White	1			
20	<u>102569304</u>	Duro 18 X 8.5 X 8, 4-Ply	1			
21	<u>7310</u>	Valve Stem	1			
22	<u>101651413</u>	Tire/Wheel Asm, White, Kenda Premium Tread (includes items 23 through 25)	4			
23	<u>1014771</u>	Wheel Rim, White	1			
24	<u>7310</u>	Valve Stem	1			
25	<u>AM10682</u>	Unmounted Prem Tire 18x8.50x8	1			



000269-006

WHEELS AND TIRES (BEIGE RIMS)

ITEM	PART NO.	DESCRIPTION	QTY	2 G E
		1 2 3 4		
1	<u>1010984</u>	.500-20 Unf Lug Nut	16	
2	<u>101570502</u>	Tire/Wheel Asm, Beige, Premium Tread (includes items 3 through 5)	4	
3	<u>101567202</u>	Tire, Unmounted, Links 18 x 8.50-8	1	
4	<u>1015707</u>	Wheel Rim, Beige	1	
5	<u>7310</u>	Valve Stem	1	
6	<u>101570506</u>	Tire/Wheel Asm, Beige, Premium Tread, 6-ply (includes items 7 through 9)	4	
7	<u>1015707</u>	Wheel Rim, Beige	1	
8	<u>101737002</u>	Tire, Unmounted	1	
9	<u>7310</u>	Valve Stem	1	
10	<u>101570507</u>	Tire/Wheel Asm, Beige, Xtrac Tread, 6-ply (includes items 11 through 13)	4	
11	<u>1015707</u>	Wheel Rim, Beige	1	
12	N/A	Tire, Unmounted Xtrac 18 x 8.50-8	1	
13	<u>7310</u>	Valve Stem	1	
14	<u>101570509</u>	Tire/Wheel Asm, Beige, Premium Tread, 6.5 (includes items 15 through 17)	4	
15	<u>101884901</u>	Tire, Unmounted, Power Rib 18 x 6.50-8	1	
16	<u>101918401</u>	Wheel Rim, Beige	1	
17	<u>7310</u>	Valve Stem	1	
18	<u>101570512</u>	Tire/Wheel Asm, Beige, Duro Premium Tread (includes items 19 through 21)	4	
19	<u>1015707</u>	Wheel Rim, Beige	1	
20	<u>102569304</u>	Duro 18 X 8.5 X 8, 4-Ply	1	
21	<u>7310</u>	Valve Stem	1	
22	<u>101570513</u>	Tire/Wheel Asm, Beige, Kenda Premium Tread (includes items 23 through 25)	4	
23	<u>1015707</u>	Wheel Rim, Beige	1	
24	<u>7310</u>	Valve Stem	1	
25	<u>AM10682</u>	Unmounted Prem Tire 18x8.50x8	1	

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DECALS

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OPERATING INSTRUCTIONS

- Read owner's manual and safety warnings located on dash panel prior to driving.
- Study and understand controls.

TO OPERATE

- Turn wheels to desired direction and ensure path is clear.
- Turn key to ON position.
- While stopped, place shift lever in desired position:
F – Forward N – Neutral R – Reverse (Buzzer will sound)
- Park brake will release and vehicle will start moving when accelerator pedal is pressed.
- Slowly press accelerator pedal to increase speed.
- To stop, release accelerator pedal and press brake pedal.

BEFORE LEAVING

- Press park brake pedal until it locks and holds vehicle.
- Place Forward/Reverse switch in NEUTRAL position.
- Turn key OFF and remove key when not in use.

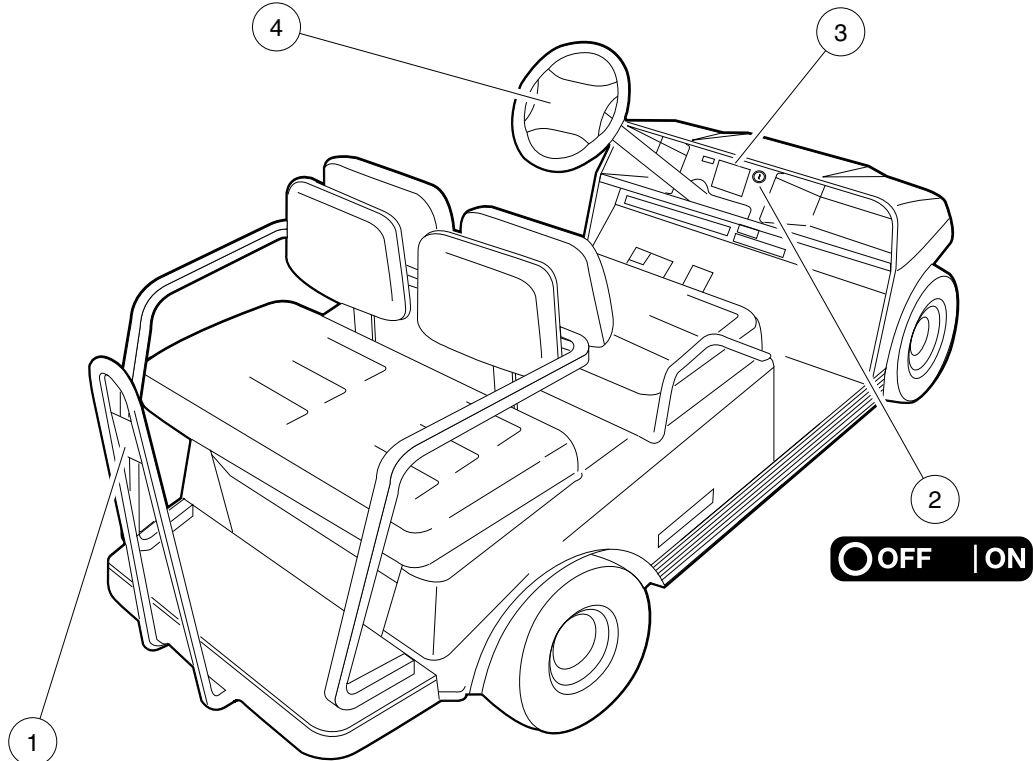
CQ 102519201

WARNING

ROLLOVER OR FALLING OFF MAY CAUSE DEATH.

- Before using vehicle, read operating instructions.
- Remain seated and hold on to seat handle while moving.
- Do not start vehicle until all occupants are seated.
- Two (2) persons per seat maximum.
- Operate from driver side only and not on public roads.
- Keep entire body inside vehicle while moving.
- Drive slowly in turns and straight up and down slopes.
- Do not leave children unattended on vehicle.
- Never operate under the influence of alcohol or drugs.
- Use brakes to reduce speed when coasting downhill.
- Never stand in front of or behind vehicle.

CQ 101560001



WARNING

FALLING OFF COULD RESULT IN SEVERE INJURY OR DEATH

- Remain seated with entire body inside vehicle and hold on to seat handle or handrail at all times.
- Two (2) persons per bench seat maximum.
- One (1) person per bucket seat maximum.
- Do not leave children unattended on vehicle at anytime.
- Never stand in front of or behind vehicle.

CQ 101765701

000370-001

DECALS – GASOLINE AND ELECTRIC VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY	3 G E
		1 2 3 4		
1	<u>101705701</u>	Decal, Warning	1	
2	<u>101825101</u>	Decal, Off/On	1	
3	101960601	Decal, Dash Warning	1	
4	102518001	Decal, Operating Instr, Elec	1	

OPERATING INSTRUCTIONS

- Read owner's manual and dash-mounted safety warnings prior to driving.
- Study and understand controls.

TO OPERATE

- Turn wheels to desired direction and ensure path is clear.
- Turn key to ON position.
- While stopped, place Forward/Reverse switch in desired position: F-Forward N-Neutral R-Reverse (Buzzer will sound)
- Park brake will release and vehicle will start moving when accelerator pedal is pressed.
- Slowly press accelerator pedal to increase speed.
- To stop, release accelerator pedal and press brake pedal.

BEFORE LEAVING

- Press park brake pedal until it locks and holds vehicle.
- Place Forward/Reverse switch in NEUTRAL position.
- Turn key OFF and remove key when not in use.

MOTOR BRAKING

- Electric motor braking provides speed regulation functions.
- For parked vehicle, beeping alarm indicates vehicle roll away.
- In operation, beeping alarm indicates reduction in motor braking.
- Apply brakes to further reduce vehicle speed as required.
- System is activated only when tow switch is in the RUN position.
- When towing this vehicle, tow switch must be in the TOW position.

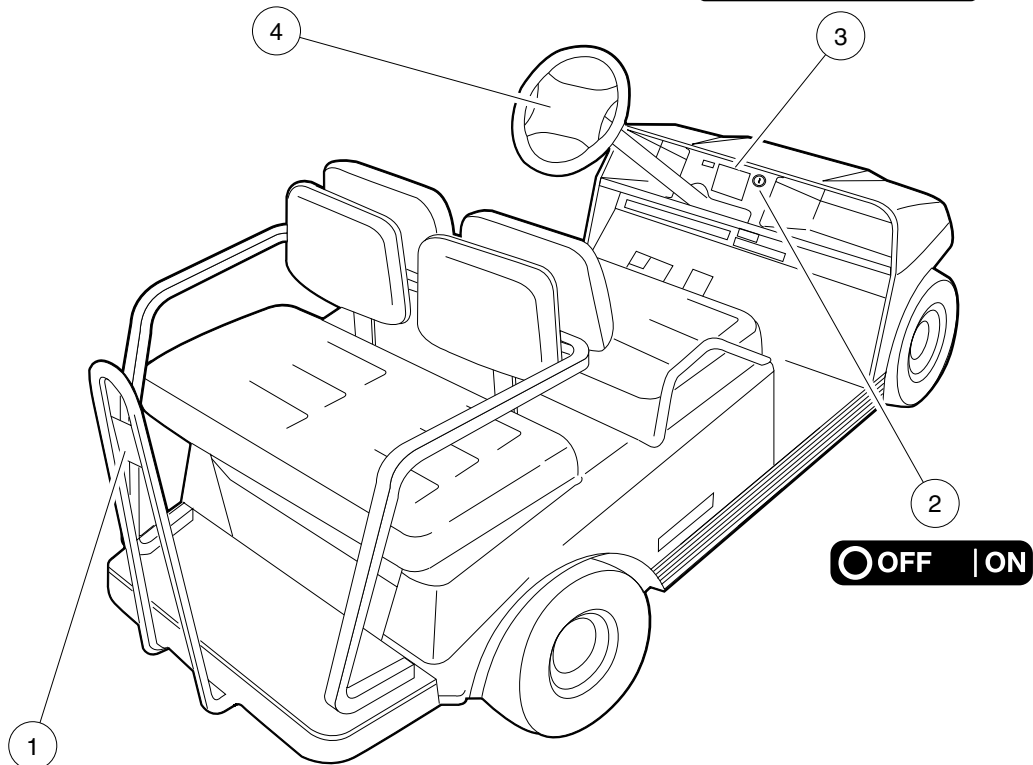
CG 102318001

WARNING

ROLLOVER OR FALLING OFF MAY CAUSE DEATH.

- Before using vehicle, read operating instructions.
- Remain seated and hold on to seat handle while moving.
- Do not start vehicle until all occupants are seated.
- Two (2) persons per seat maximum.
- Operate from driver side only and not on public roads.
- Keep entire body inside vehicle while moving.
- Drive slowly in turns and straight up and down slopes.
- Do not leave children unattended on vehicle.
- Never operate under the influence of alcohol or drugs.
- Use brakes to reduce speed when coasting downhill.
- Never stand in front of or behind vehicle.

CG 101960001



WARNING

FALLING OFF COULD RESULT IN SEVERE INJURY OR DEATH

- Remain seated with entire body inside vehicle and hold on to seat handle or handrail at all times.
- Two (2) persons per bench seat maximum.
- One (1) person per bucket seat maximum.
- Do not leave children unattended on vehicle at anytime.
- Never stand in front of or behind vehicle.

CG 101765701

000370-002

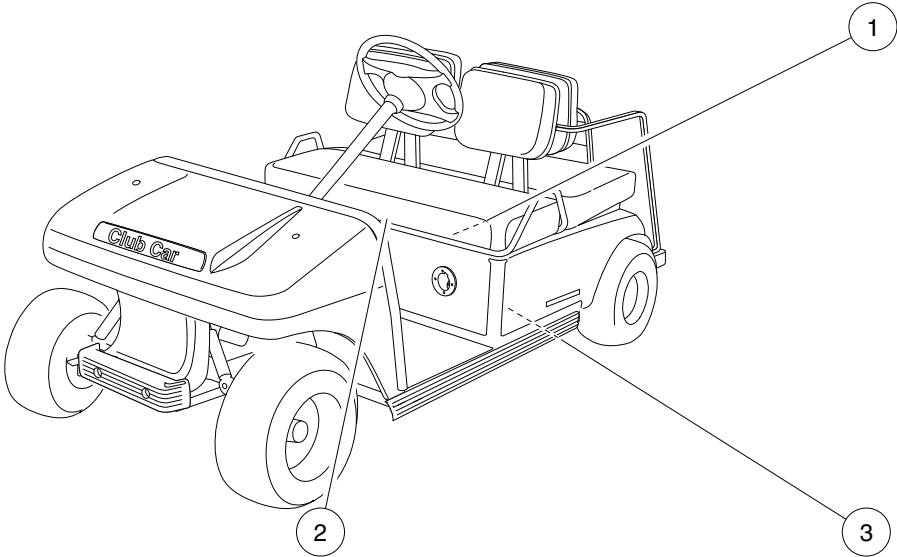
DECALS – DS VILLAGER 4 ELECTRIC VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY	3 G E
		1 2 3 4		
1	<u>101705701</u>	Decal, Warning	1	
2	<u>101825101</u>	Decal, Off/On	1	
3	101960601	Decal, Dash Warning	1	
4	102518001	Decal, Operating Instr, Elec	1	

⚠ DANGER / POISON

 SHIELD EYES	 EXPLOSIVE GASES CAN CAUSE BURNING OR BLINDNESS	 NO SPARKS • FLAMES • SMOKING	 SULFURIC ACID CAN CAUSE BURNING OR SEVERE BURNS	 FLUSH EYES IMMEDIATELY INTO WATER. GET MEDICAL HELP FAST.
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KEEP OUT OF THE REACH OF CHILDREN - DO NOT TIP - KEEP VENT CAPS TIGHT AND LEVEL.



⚠ WARNING TOW RUN

Place Tow/Run switch in TOW position before:

- Disconnecting or connecting batteries
- Towing
- Extended storage
- Servicing

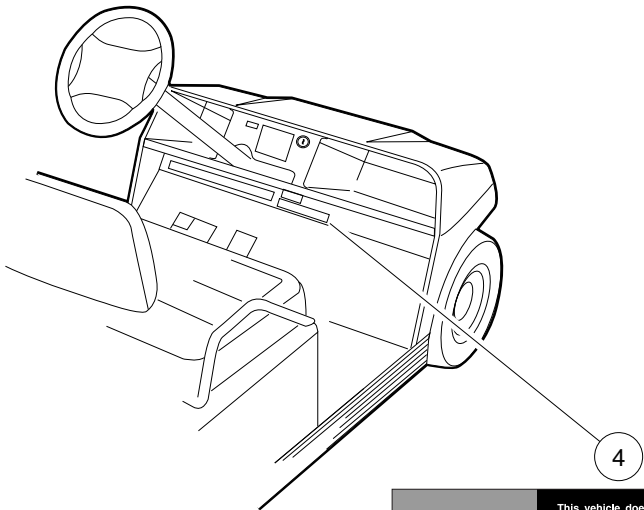
FAILURE TO HEED THIS WARNING COULD RESULT IN A BATTERY EXPLOSION OR SEVERE PERSONAL INJURY.

CCJ 101908601

NOTICE

Do not operate vehicle without this cover properly installed.
Do not direct water stream in this area; will cause damage to components.
See vehicle maintenance and service manual before servicing.

CCJ 101931501



IMPORTANT NOTICE

This vehicle does not conform to ANSI Z130.1 - "Standard for Golf Cars - Safety and Performance Requirements" because it is capable of speeds in excess of 15 miles per hour. Exercise caution.

CCJ 102228701



000371-001

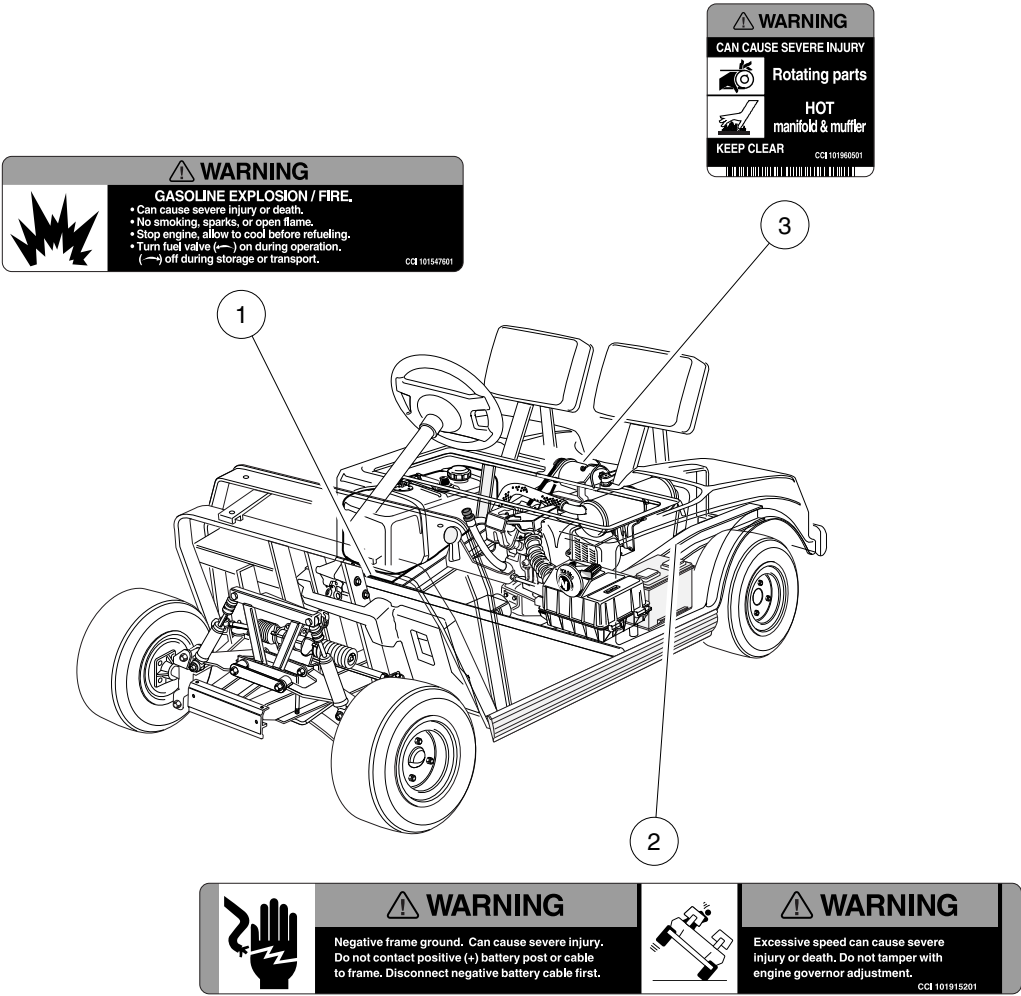
DECALS – ELECTRIC VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1013677</u>	Decal, Battery Danger	1
2	<u>101908601</u>	Decal, Tow/Run Switch Warning	1
3	<u>101931501</u>	Decal, Component Cover	1
4	<u>102228701</u>	Decal, Private Speed	1

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000373-001

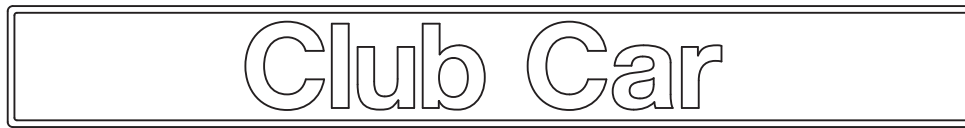
DECALS – GASOLINE VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY	3 G E
1	<u>101547601</u>	1 2 3 4 Decal, Gasoline Explosion/Fire Warning	1	
2	<u>101915201</u>	Decal, Frame Ground and Governor Warning	1	
3	<u>101960501</u>	Decal, Rotating Parts/Hot Manifold	2	

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1

(ON FRONT OF COWL)



2

(ON REAR BODY)



3

(ON REAR BODY)

000380-001

LOGO DECALS – VILLAGER 4 GASOLINE AND ELECTRIC VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY	3 G E
1	<u>1014198</u>	1 2 3 4 Nameplate Kit (gold)	1	
2	<u>102158701</u>	Decal, Villager	2	
3	<u>103234302</u>	Decal, Badge, IR - Gold	2	

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BRAKES, PEDAL, AND CABLES

4

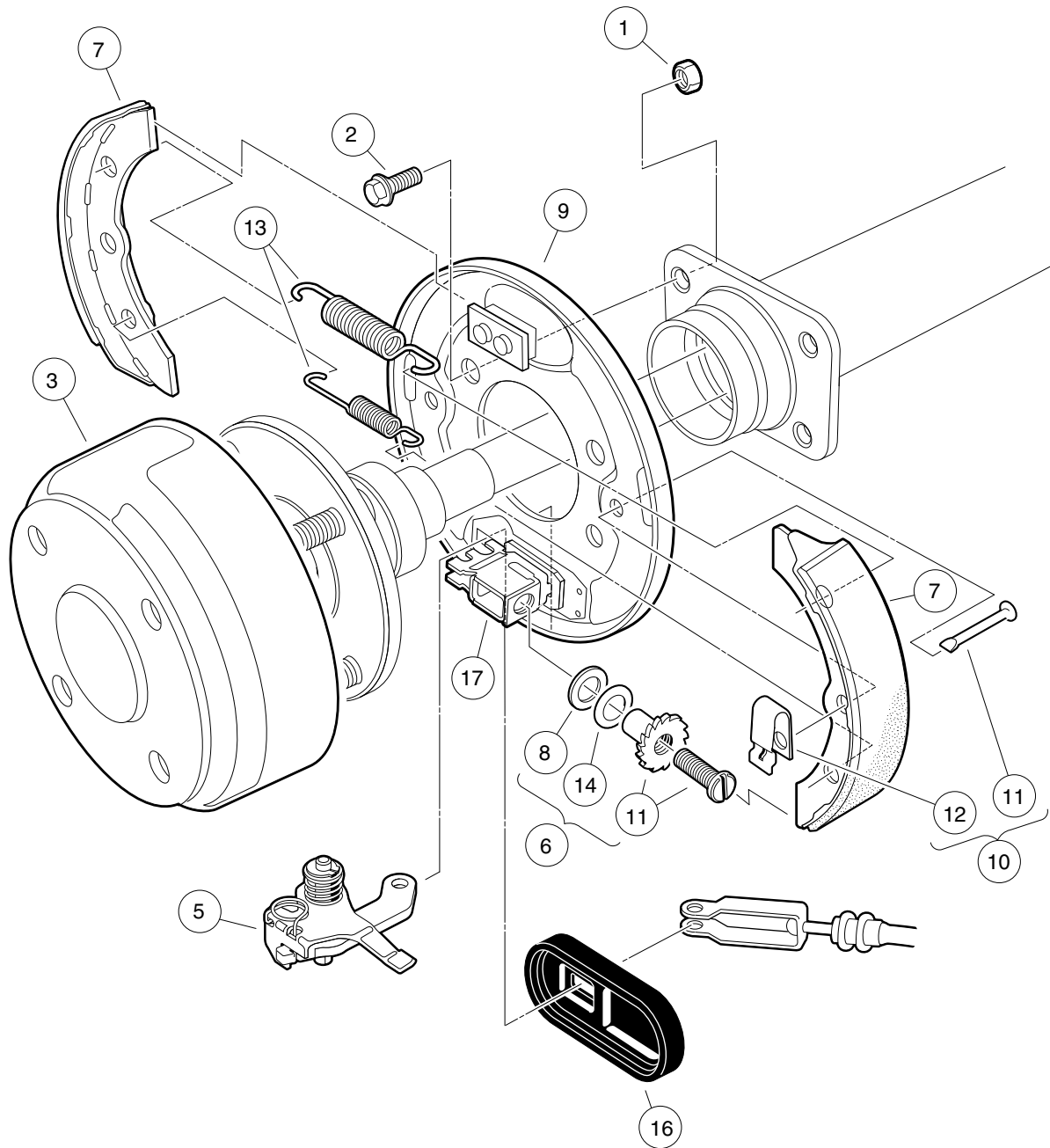
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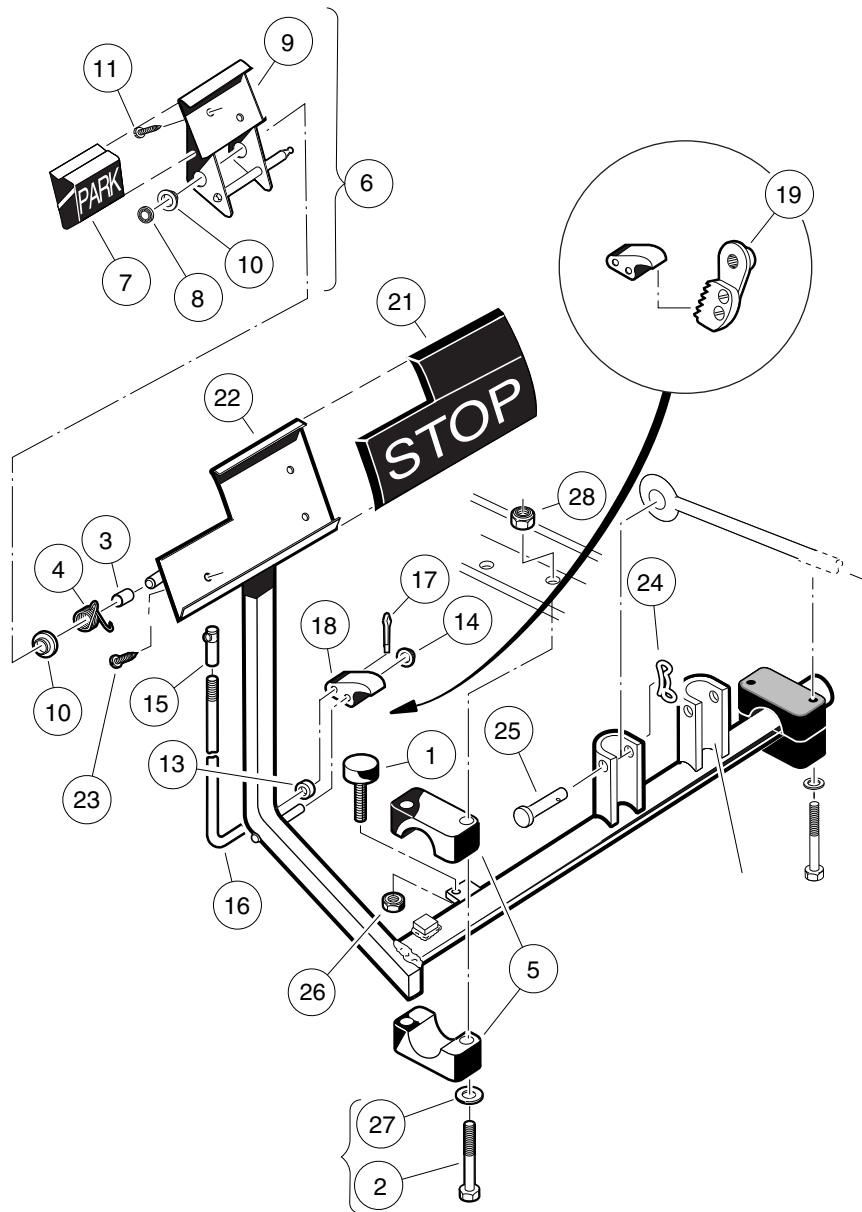
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000186-001

REAR BRAKE ASSEMBLY, SELF-ADJUSTING – VEHICLE WITH 2-WHEEL BRAKES

ITEM	PART NO.	DESCRIPTION	QTY	4 G E
		1 2 3 4		
1	<u>1013924</u>	Nut, 5/16-24 Hex Head Cone	8	
2	<u>1014153</u>	Bolt, Brake Cluster Mounting	8	
3	<u>101791101</u>	Drum without Center Hole, Brake	2	
4	<u>103380201</u>	Asm, Brake Cluster, Mech, Drvr (includes items 5 through 17)	1	
5	<u>101815501</u>	Lever Assembly, Self-Adjusting Brake, Right (Passenger)	1	
6	<u>101816501</u>	Adj Mechanism, S.A. Brakes, Right (Passenger)	1	
7	<u>101823201</u>	Package, Brake Shoe, Self-Adjusting	1	
8	<u>101823801</u>	Plate, Washer, Brake, Self-Adjusting	1	
9	<u>103483101</u>	Back Plate, Rh	1	
10	<u>103483201</u>	Kit, Shoe Retainer (includes items 11 and 12)	1	
11	<u>1010953</u>	Pin	2	
12	<u>103483301</u>	Spring, Shoe, Clamp	2	
13	<u>103483401</u>	Package Brake Spring Self Adj (includes items 14 and 15)	1	
14	<u>101816401</u>	Brake Spring Self Adj	2	
15	<u>103483501</u>	Spring Brake	2	
16	<u>103483601</u>	Cover, Dust	1	
17	<u>103483701</u>	Brake Block	1	
18	<u>103380202</u>	Asm, Brake Cluster, Mech, Pass (includes items 19 through 31)	1	
19	<u>101815502</u>	Lever Assembly, Self-Adjusting Brake, Left	1	
20	<u>101816502</u>	Adjusting Mechanism, Self-Adjusting Brake, Left	1	
21	<u>101823201</u>	Package, Brake Shoe, Self-Adjusting	1	
22	<u>101823801</u>	Plate, Washer, Brake, Self-Adjusting	1	
23	<u>103483102</u>	Back Plate, Lh	1	
24	<u>103483201</u>	Kit, Shoe Retainer (includes items 25 and 26)	1	
25	<u>1010953</u>	Pin	2	
26	<u>103483301</u>	Spring, Shoe, Clamp	2	
27	<u>103483401</u>	Package Brake Spring Self Adj (includes items 28 and 29)	1	
28	<u>101816401</u>	Brake Spring Self Adj	2	
29	<u>103483501</u>	Spring Brake	2	
30	<u>103483601</u>	Cover, Dust	1	
31	<u>103483701</u>	Brake Block	1	
Note: Driver-side brake cluster not shown. Components have a similar appearance to passenger-side brake cluster components.				



000187-001

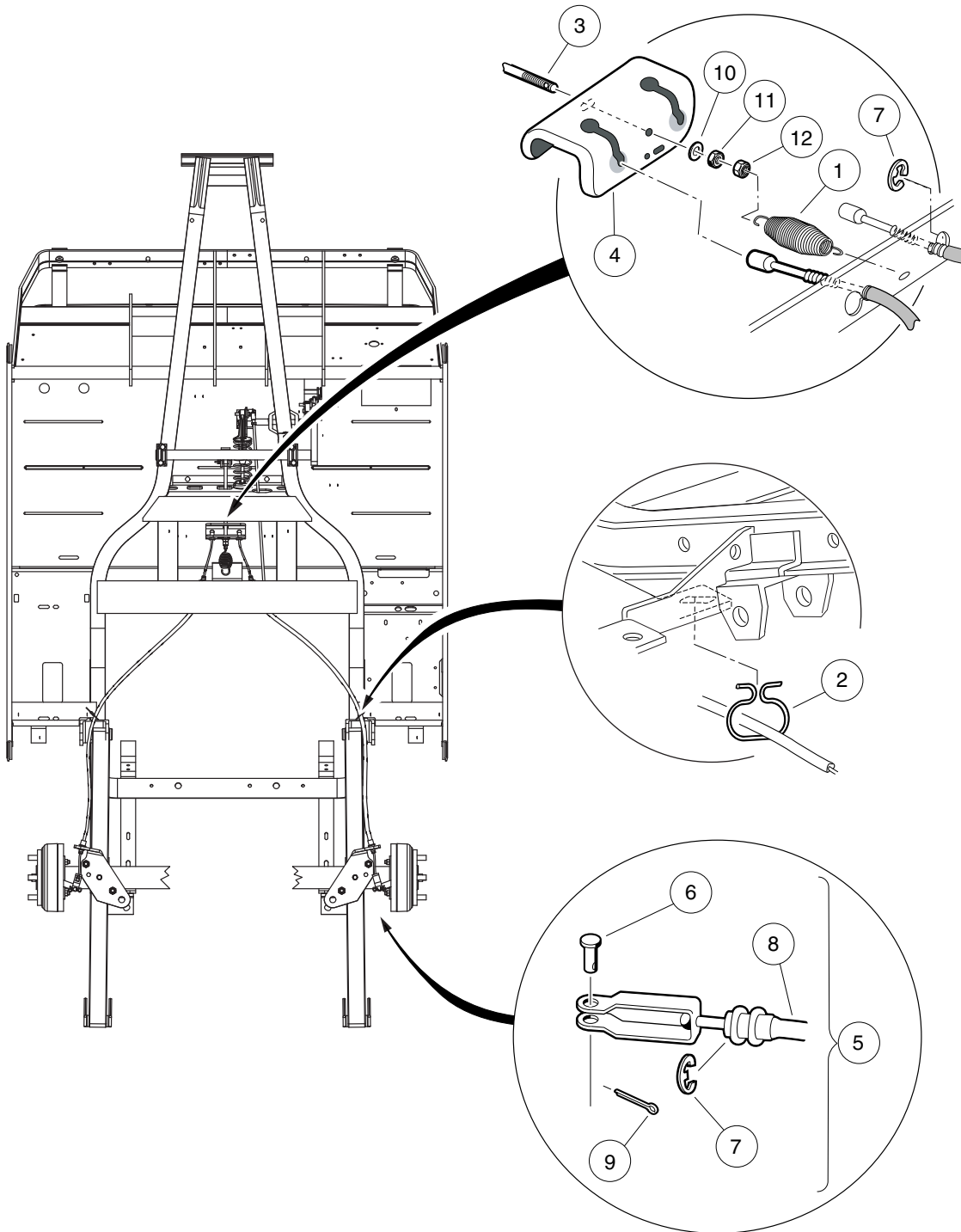
BRAKE PEDAL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY	4
		1 2 3 4		G
1	<u>1010878</u>	Bumper, Rubber	1	E
2	<u>1010921</u>	Screw, 5/16-18 X 2.50 Hex Cap	4	
3	<u>1010927</u>	Hill Brake Spacer	1	
4	<u>1010933</u>	Spring, Hill Brake Torsion	1	
5	<u>1011402</u>	Package, Brake Mounting Block	1	
6	<u>1011418</u>	Kit, Hill Brake Pedal (includes items 7 through 11)	1	
7	<u>1013870</u>	Pad, Hill Brake	1	
8	<u>1013876</u>	Pushnut, 3/8	1	
9	N/A	Hill Brake Weld Assembly	1	
10	<u>1032</u>	Bushing, Nylon	2	
11	7716	Screw, #10-16 Type AB, Sheet Metal	2	
12	<u>101187702</u>	Kit, Hill Brake Latch (includes items 13 through 19)	1	
13	<u>1010805</u>	Sleeve, Hill Brake Rod	1	
14	<u>1010877</u>	Pushnut, 3/8	1	
15	1010932	Ball Joint, 1/4-28	1	
16	N/A	Rod, Hill Brake	1	
17	<u>1017029</u>	Pin, Cotter, 7/64 x 1/2 Stainless-Steel	1	
18	N/A	Pawl, Hill Brake	1	
19	101918501	Ratchet Assembly	1	
20	<u>101878201</u>	Brake Pedal Kit (includes items 21 through 23)	1	
21	<u>1013869</u>	Pad, Brake Pedal	1	
22	N/A	Weldment, Brake Pedal 4wb Std	1	
23	7716	Screw, #10-16 Type AB, Sheet Metal	3	
24	<u>102323101</u>	Pin, Bow Tie Locking	1	
25	<u>102323201</u>	Pin, 3/8 X 1-5/16 Clevis	1	
26	<u>1028</u>	Nut, 1/4-20 Hex	1	
27	<u>1241</u>	Washer, 5/16 Type A Flat	4	
28	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	4	

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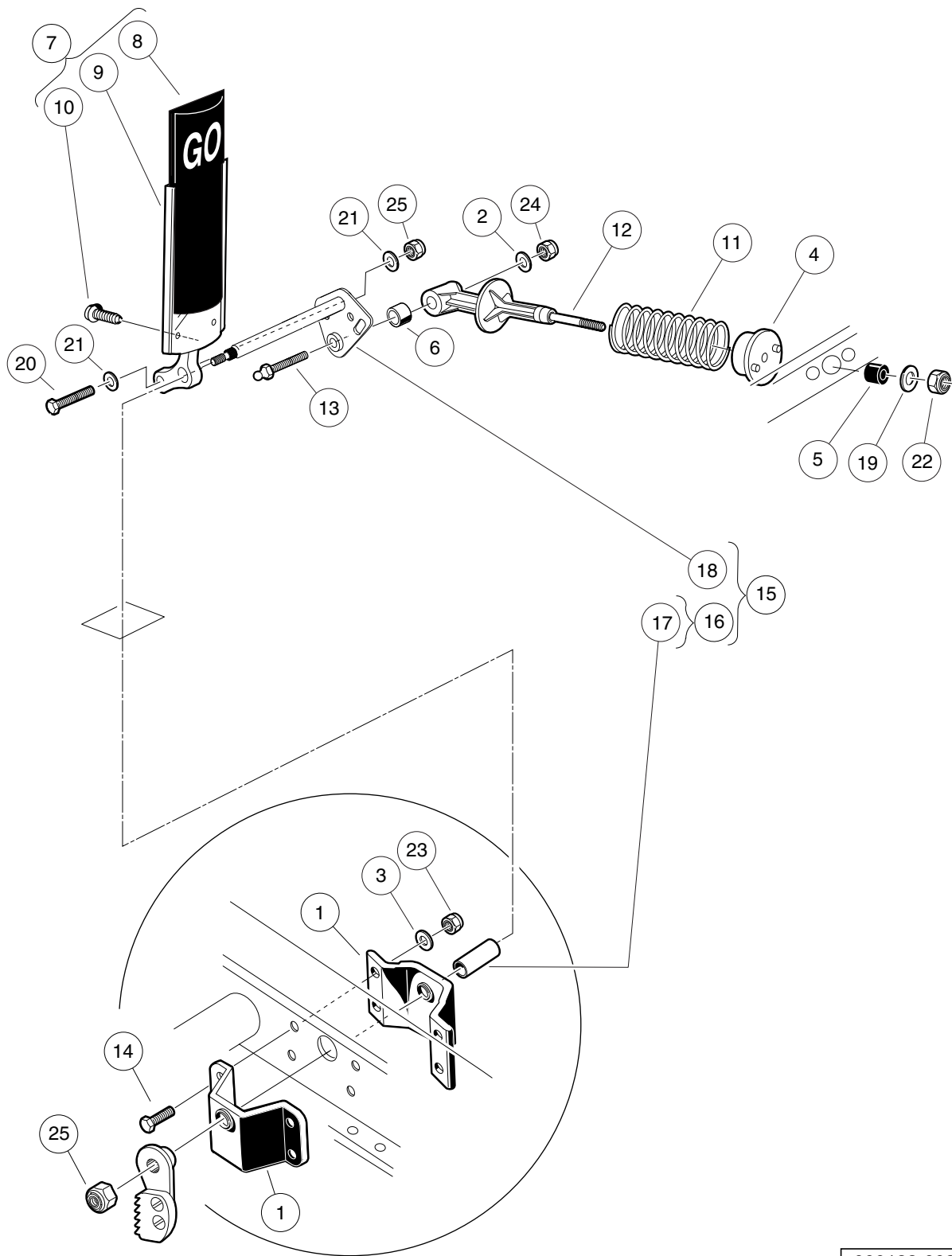
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000245-001

BRAKE CABLE, EQUALIZER, AND EQUALIZER ROD

ITEM	PART NO.	DESCRIPTION	QTY	4 G E
		1 2 3 4		
1	<u>1013531</u>	Spring, Brake Return	1	
2	<u>101900801</u>	Hanger, Brake Cable	2	
3	<u>101953101</u>	Rod, Equalizer, 8.91"	1	
4	<u>101990801</u>	Equalizer Bracket	1	
5	<u>102022101</u>	Brake Cable Kit (includes items 6 through 9)	2	
6	<u>1010829</u>	Pin, Clevis, 5/16 X 3/4	1	
7	<u>1011779</u>	E-Clip, 1/2	2	
8	N/A	Cable, Brake, 41"	1	
9	<u>1035</u>	Cotter Pin, 3/32 x 1	1	
10	<u>1241</u>	Washer, 5/16 Type A Flat	5	
11	<u>1242</u>	Nut, 5/16-18 Hex	1	
12	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	5	



000188-003

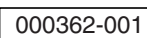
ACCELERATOR PEDAL ASSEMBLY – GASOLINE VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY	4 G E
		1 2 3 4		
1	<u>1011694</u>	Accelerator Bracket and Bearing Assembly	2	
2	<u>1011931</u>	Washer, 1/4 Flat	1	
3	<u>1014007</u>	Washer, 1/4 Flat	4	
4	<u>1017378</u>	Cup, Spring	1	
5	<u>1017380</u>	Bumper, Spring Return	1	
6	<u>1017424</u>	Bearing, Pivot Support	1	
7	<u>1017696</u>	Sub Asm, Accelerator Pedal (includes items 8 through 10)	1	
8	1013871	Pad, Accelerator Pedal	1	
9	N/A	Accelerator Pedal Weldment	1	
10	7716	Screw, #10-16 Type AB, Sheet Metal	4	
11	101796201	Spring, Accelerator Return	1	
12	<u>101817401</u>	Retainer, Spring	1	
13	101818801	Stud, 1/4-28 X 1.35 Ball	1	
14	<u>101861901</u>	Screw, 1/4-20 X 1.125 Hex Cap	4	
15	<u>102026001</u>	Kit, Accelerator Pivot Rod Assembly (includes items 16 through 18)	1	
16	<u>1011700</u>	Spacer Assembly (includes item 17)	1	
17	101919801	Spacer, Accelerator	1	
18	N/A	Pivot Rod Weldment	1	
19	<u>1241</u>	Washer, 5/16 Type A Flat	1	
20	<u>1624</u>	Screw, 3/8-16 X 1.50 Hex-Head Cap	1	
21	<u>334</u>	Washer, 3/8 Type A Flat	2	
22	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	1	
23	<u>8233</u>	Locknut, 1/4-20 Nylon Insert	4	
24	<u>8717</u>	Locknut, 1/4-28 Nylon Insert	1	
25	<u>8754</u>	Locknut, 3/8-16 Hex	2	

ACCELERATOR PEDAL ASSEMBLY – ELECTRIC VEHICLES WITH MCOR

ITEM	PART NO.	DESCRIPTION	QTY	4 G E
		1 2 3 4		
1	<u>1011694</u>	Accelerator Bracket and Bearing Assembly	2	
2	<u>1011931</u>	Washer, 1/4 Flat	1	
3	<u>1014007</u>	Washer, 1/4 Flat	4	
4	<u>1017378</u>	Cup, Spring	1	
5	<u>1017380</u>	Bumper, Spring Return	1	
6	<u>1017424</u>	Bearing, Pivot Support	1	
7	<u>1017696</u>	Sub Asm, Accelerator Pedal (includes items 8 through 10)	1	
8	1013871	Pad, Accelerator Pedal	1	
9	N/A	Accelerator Pedal Weldment	1	
10	7716	Screw, #10-16 Type AB, Sheet Metal	4	
11	101796201	Spring, Accelerator Return	1	
12	<u>101817401</u>	Retainer, Spring	1	
13	<u>101861901</u>	Screw, 1/4-20 X 1.125 Hex Cap	4	
14	<u>101862001</u>	Screw, 1/4-20 X 1.500 Flange	1	
15	<u>102026001</u>	Kit, Accelerator Pivot Rod Assembly (includes items 16 through 18)	1	
16	<u>1011700</u>	Spacer Assembly (includes item 17)	1	
17	101919801	Spacer, Accelerator	1	
18	N/A	Pivot Rod Weldment	1	
19	<u>1241</u>	Washer, 5/16 Type A Flat	1	
20	<u>1624</u>	Screw, 3/8-16 X 1.50 Hex-Head Cap	1	
21	<u>334</u>	Washer, 3/8 Type A Flat	2	
22	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	1	
23	<u>8233</u>	Locknut, 1/4-20 Nylon Insert	4	
24	<u>8717</u>	Locknut, 1/4-28 Nylon Insert	1	
25	<u>8754</u>	Locknut, 3/8-16 Hex	2	

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ACCELERATOR ROD

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101912401	Rod, Accelerator (includes items 2 through 4)	1
2	<u>1011084</u>	Nut, 1/4-28 Hex Jam	2
3	<u>1011734</u>	Joint, Ball	2
4	N/A	Accelerator Rod	1

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STEERING, FRONT AND REAR SUSPENSION

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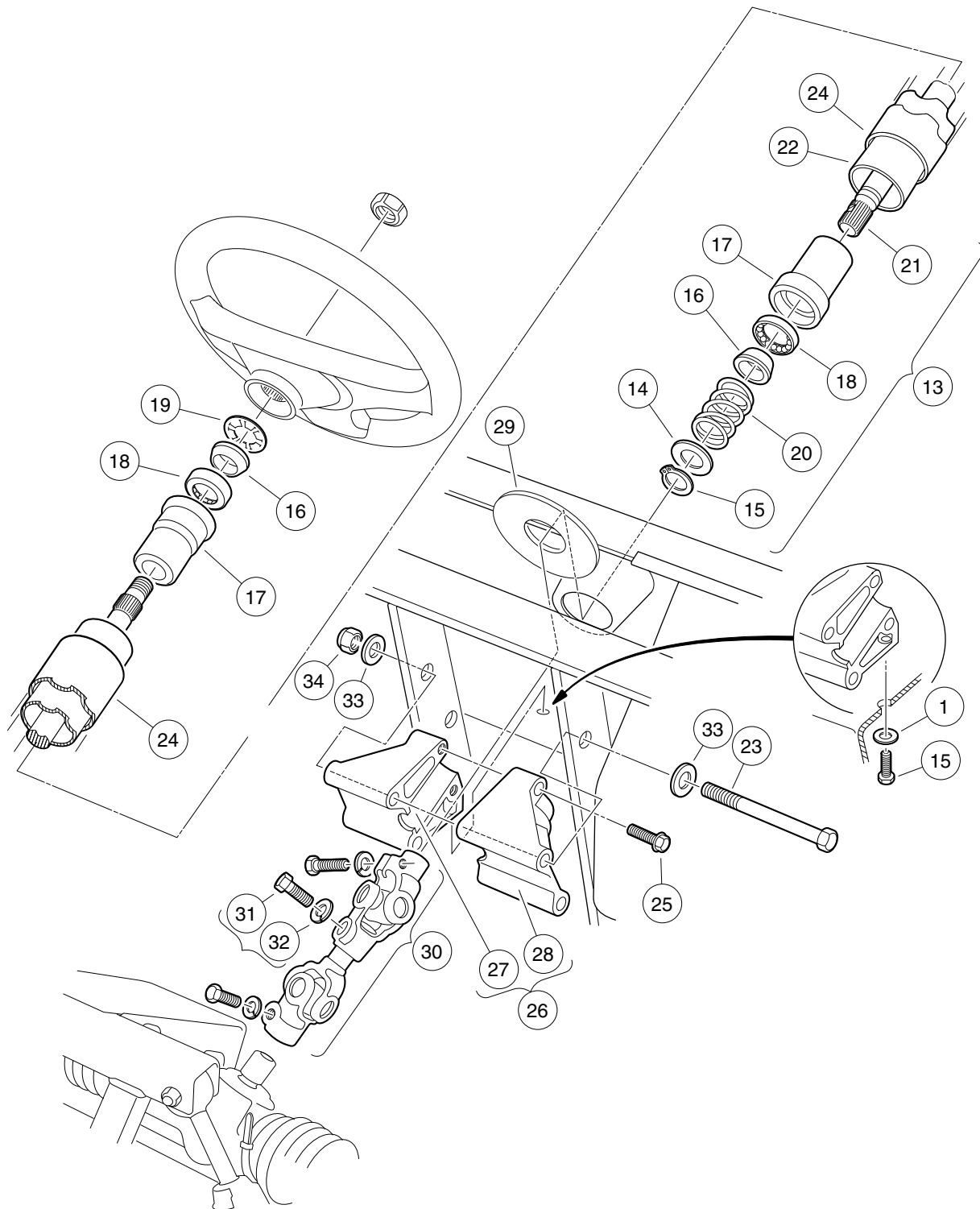
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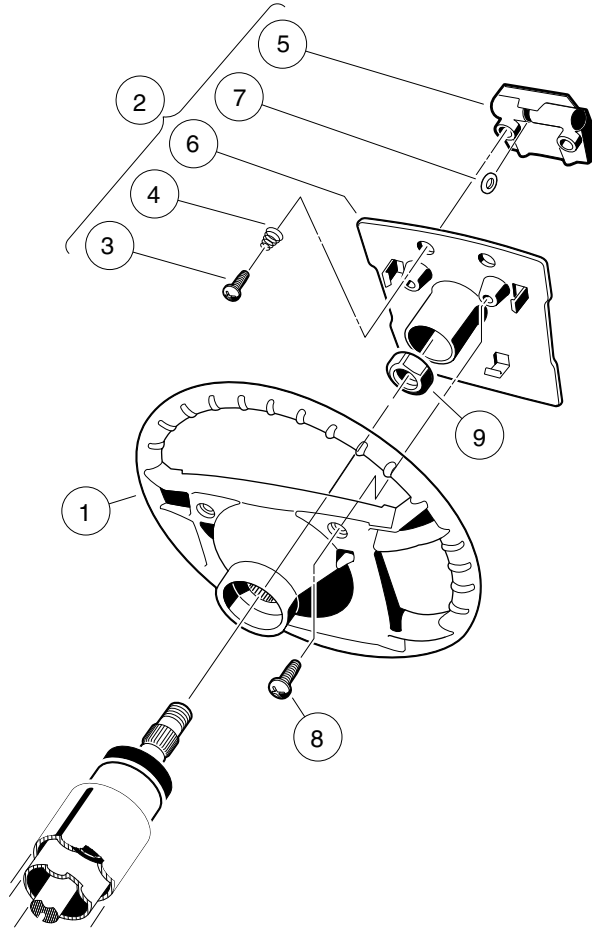
STEERING COLUMN

ITEM	PART NO.	DESCRIPTION	QTY	5 G E
		1 2 3 4		
1	<u>1011697</u>	Washer, 5/16 Flat	1	
2	<u>1014216</u>	Steering Column Rebuild Kit (includes items 3 through 11)	1	
3	<u>1012466</u>	Dust Cover	1	
4	<u>1012605</u>	Ring, 0.579 Internal Retaining	1	
5	<u>1014125</u>	Wedge, Molded	2	
6	<u>1014126</u>	Seat, Plastic Bearing	2	
7	<u>1014211</u>	Seal, Bearing	1	
8	<u>1014212</u>	Spacer, Shaft	1	
9	<u>1014213</u>	Bearing, Ball	2	
10	<u>1014214</u>	Ring, Retaining	1	
11	<u>1014217</u>	Spring, Steering Shaft	1	
12	<u>1014288</u>	Screw, 5/16-18 X 0.75 Thread-Forming	1	
13	<u>1016181</u>	Steering Shaft Assembly (includes items 14 through 22)	1	
14	<u>1012604</u>	Washer, 0.675 ID X 1.19 OD	1	
15	<u>1012605</u>	Ring, 0.579 Internal Retaining	1	
16	<u>1014125</u>	Wedge, Molded	2	
17	<u>1014126</u>	Seat, Plastic Bearing	2	
18	<u>1014213</u>	Bearing, Ball	2	
19	<u>1014214</u>	Ring, Retaining	1	
20	<u>1014217</u>	Spring, Steering Shaft	1	
21	<u>1015545</u>	Shaft, Steering Column	1	
22	<u>1016622</u>	Column, Aluminum Steering	1	
23	<u>1016183</u>	Screw, 3/8-16 X 7.00 Hex Cap	2	
24	<u>1016263</u>	Cover, Steering Column Tube	1	
25	<u>1016269</u>	Screw, 5/16-18 Thrd Forming	2	
26	<u>101984801</u>	Kit, Steering Column Mounting Bracket (includes items 27 and 28)	1	
27	N/A	Bracket, RH Steering Column Mount	1	
28	N/A	Bracket, LH Steering column mount	1	
29	<u>102278001</u>	Boot, Steering Column Round	1	
30	<u>103601601</u>	Shaft, Intermediate Steering (includes items 31 and 32)	1	
31	<u>1017226</u>	Bolt, Hex-Head, 8mm X 1.25 - 30	3	
32	<u>7174</u>	Lockwasher, 5/16 Split	3	
33	<u>334</u>	Washer, 3/8 Type A Flat	4	
34	<u>8754</u>	Locknut, 3/8-16 Hex	2	

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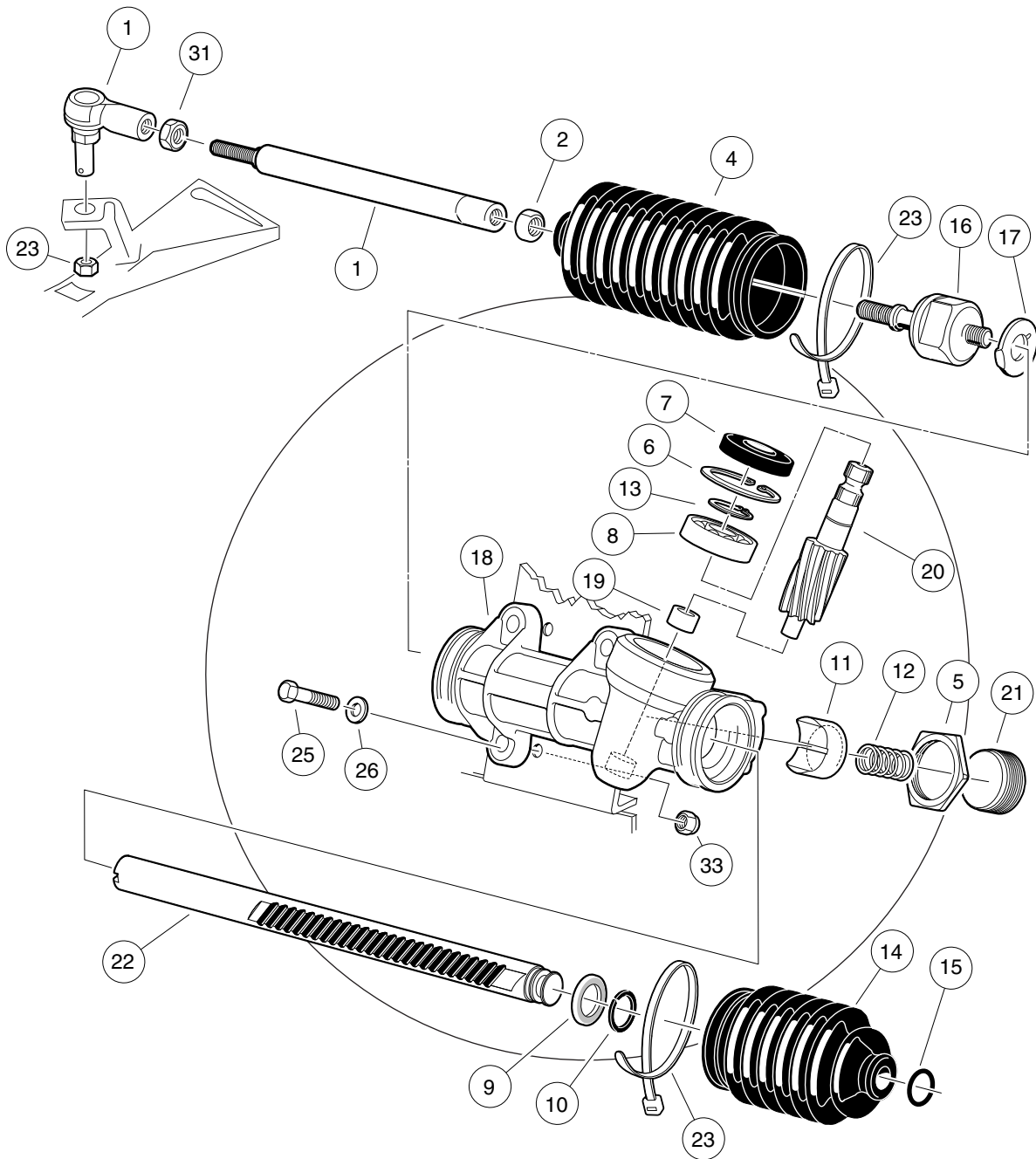
STEERING WHEEL

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1016156</u>	Wheel, Steering	1
2	<u>1016219</u>	Plate, Scorecard (includes items 3 through 7)	1
3	<u>1012565</u>	Screw, #12 Phillips Round Head	2
4	<u>1012566</u>	Tapered Compression Spring	2
5	<u>1016154</u>	Clip, Scorecard	1
6	N/A	Plate, Score Card	1
7	N/A	Pencil Grip	1
8	<u>1016663</u>	Screw, #12-14 X 0.625	2
9	<u>1017273</u>	Nut, 5/8-18 Nylon Insert Jam	1

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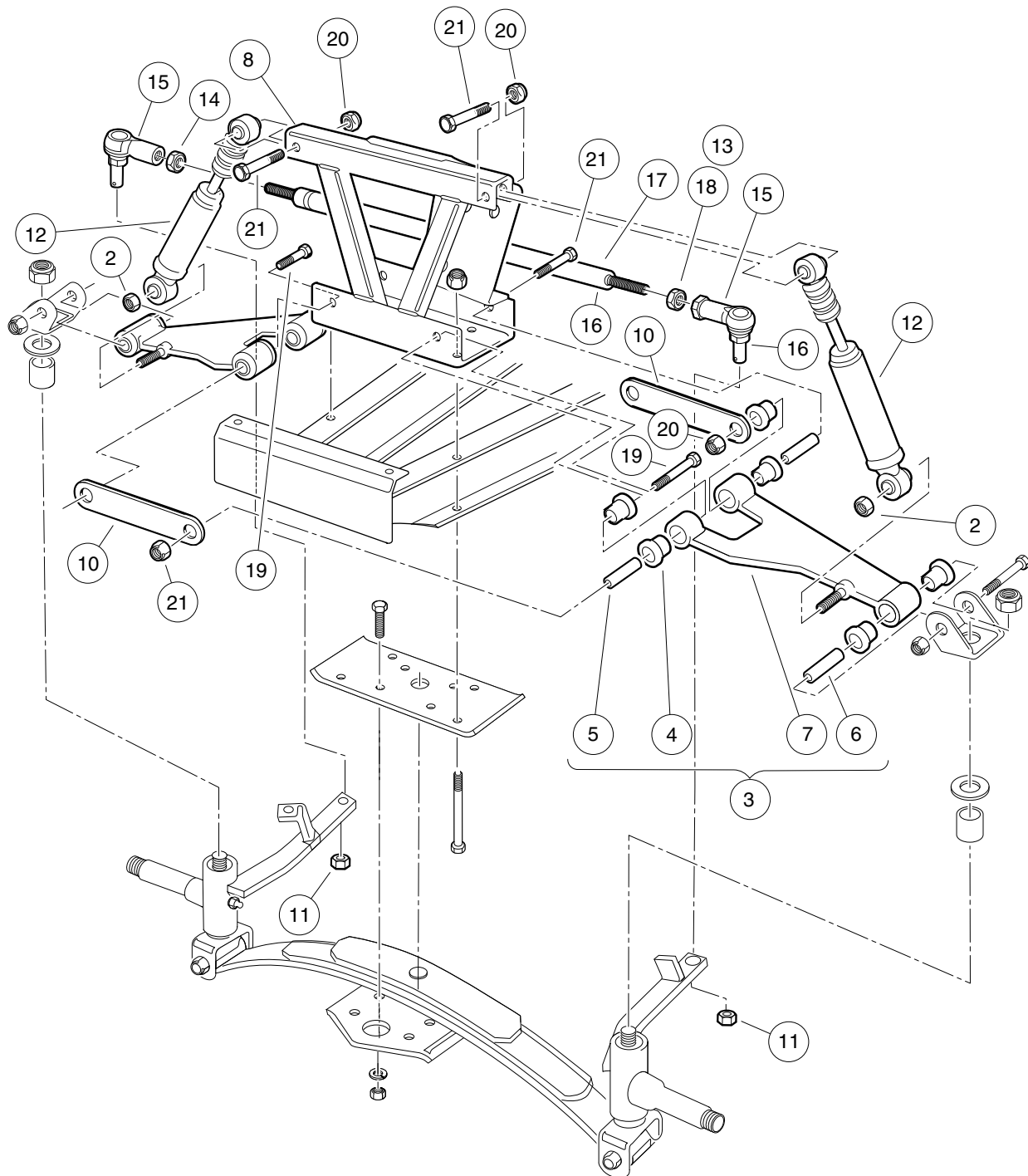
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STEERING GEAR ASSEMBLY

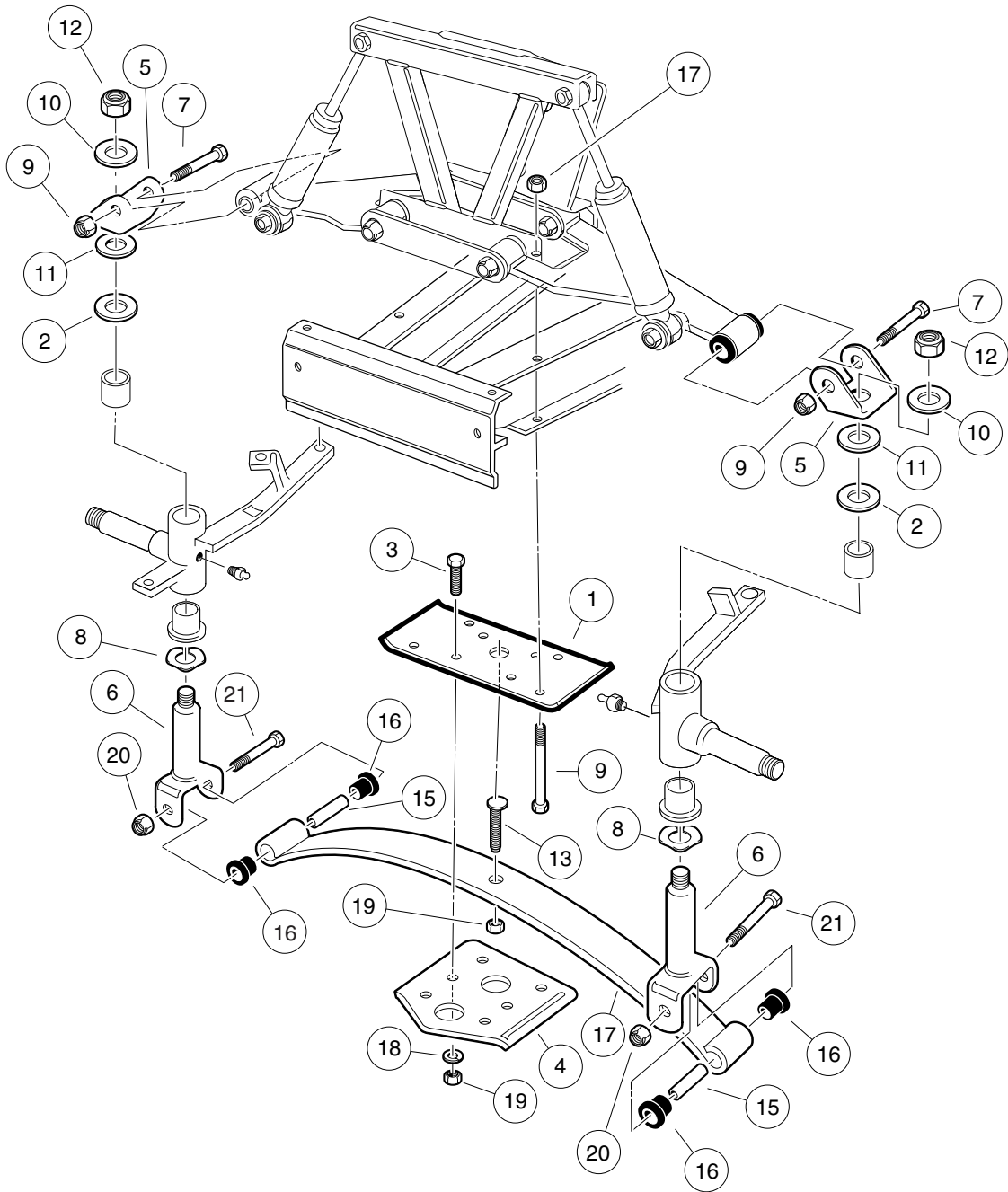
ITEM	PART NO.	DESCRIPTION	QTY	5 G E
		1 2 3 4		
1	<u>1012467</u>	Link, Rack and Pinion Drag	1	
2	<u>1013042</u>	Nut, 12mm Hex	1	
3	<u>101878302</u>	Steering Gear Assembly (without yoke) (includes items 4 through 23)	1	
4	<u>1013035</u>	Bellows, Long	1	
5	<u>1013044</u>	Rack Screw Locknut	1	
6	<u>1013051</u>	Snap Ring	1	
7	<u>1013052</u>	Seal, Steering Pinion Dust	1	
8	<u>101879401</u>	Bearing, Ball	1	
9	<u>101879501</u>	Stop Washer	1	
10	<u>101879601</u>	Stop Ring, C-Type	1	
11	<u>101879701</u>	Support Yoke	1	
12	<u>101879801</u>	Rack Guide Pressure Spring	1	
13	<u>101879901</u>	Ring, Stop, C-Type	1	
14	<u>101880001</u>	Bellows, Short	1	
15	<u>101880101</u>	Dust Seal Retaining Ring	1	
16	<u>101880201</u>	Inner Ball Joint Asm	1	
17	<u>101880301</u>	Washer, Tab	1	
18	N/A	Box, Steering Gear	1	
19	N/A	Bearing, Lower Pinion	1	
20	N/A	Pinion, Steering	1	
21	N/A	Screw, Rack Guide	1	
22	N/A	Rack, Steering	1	
23	<u>8990</u>	Tie Wrap, 8" Nylon	2	
24	<u>1035</u>	Cotter Pin, 3/32 x 1	1	
25	<u>1624</u>	Screw, 3/8-16 X 1.50 Hex-Head Cap	3	
26	<u>334</u>	Washer, 3/8 Type A Flat	3	
27	<u>7540</u>	Ball Joint, Left (includes items 28 through 31)	1	
28	<u>1011895</u>	Socket, LH Vertical	1	
29	<u>1011930</u>	Seal, Vertical Socket Dust	1	
30	<u>1015597</u>	Fitting, 1/4-28 Thread-Forming Grease	1	
31	<u>7602</u>	Nut, 3/8-24 UNF Hex	1	
32	<u>7555</u>	Nut, 1/2-20 Hex, Left-Hand Thread	1	
33	<u>8754</u>	Locknut, 3/8-16 Hex	3	



000312-002

FRONT SUSPENSION, UPPER

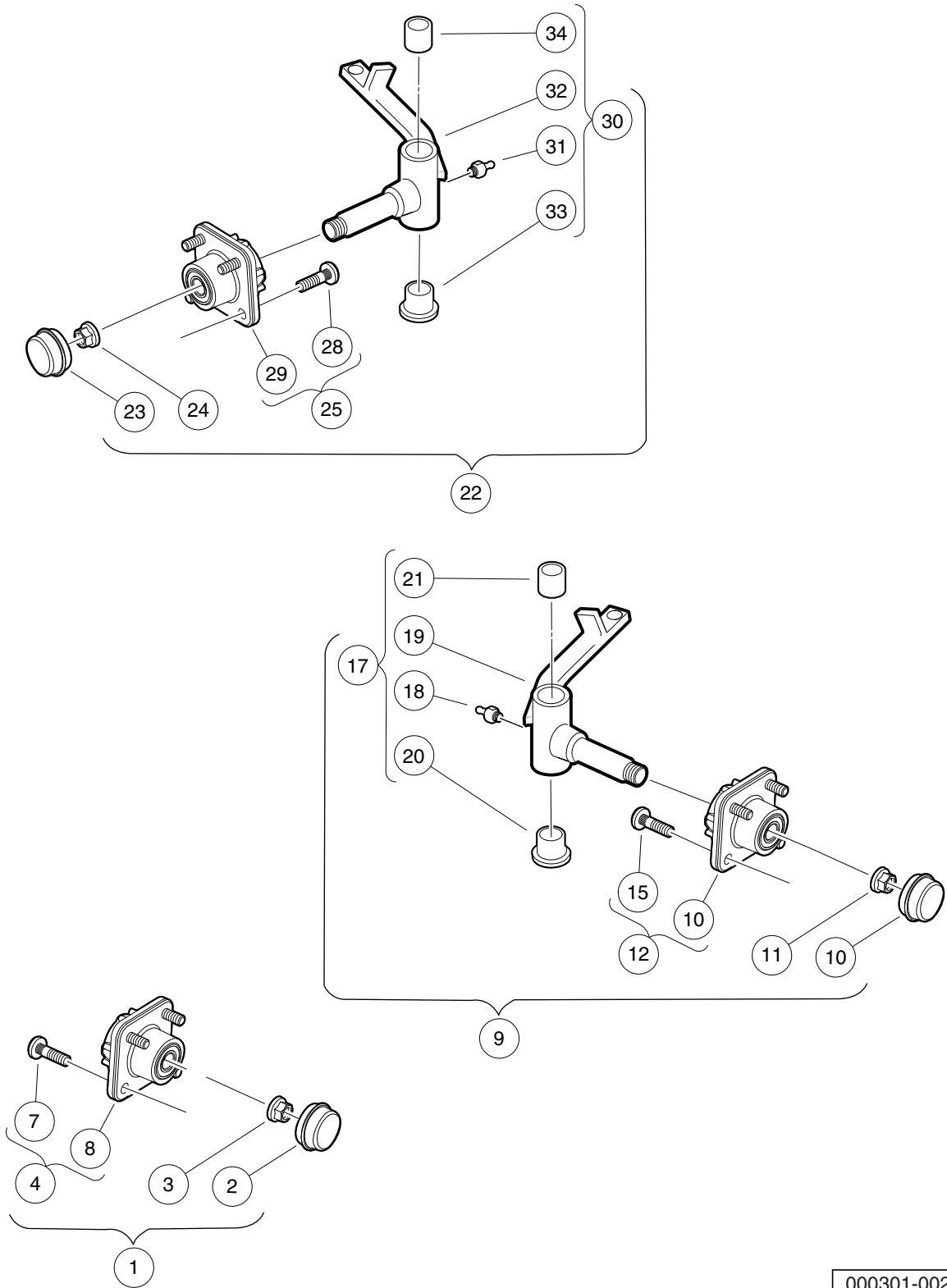
ITEM	PART NO.	DESCRIPTION	QTY	5 G E
		1 2 3 4		
1	N/A	Sub, Fr Susp. -1 Lf-2wb Golf (includes items 2 through 21)	1	
2	<u>1010138</u>	Locknut, 3/8-16 Dimpled	2	
3	<u>1016353</u>	Sub-Assembly, Delta A-Plate (includes items 4 through 7)	2	
4	<u>1016346</u>	Bushing, Urethane	6	
5	<u>1016349</u>	Sleeve, Delta Inner	2	
6	<u>1016350</u>	Sleeve, Delta Outer	1	
7	<u>1016351</u>	Delta A-Plate	1	
8	<u>1016385</u>	Delta Shock and Gear Support Assembly	1	
9	<u>1016387</u>	Screw, 3/8-16 X 2.75 Hx Hd Cap	2	
10	<u>1017266</u>	A-Plate Strap	2	
11	<u>102289201</u>	Nut - Hex Locking, M12 X 1.25	3	
12	<u>103351001</u>	Shock Absorber, Front, Common	2	
13	N/A	Asm, Tie Rod (includes items 14 through 18)	1	
14	1013042	Nut, 12mm Hex	1	
15	<u>102022601</u>	End, Tie Rod M12 X 1.25 Rh	1	
16	<u>102022602</u>	End, Tie Rod, M12 X 1.25, Lh	1	
17	<u>103354701</u>	Rod, Tie, Male Thd	1	
18	<u>103653501</u>	Nut, Jam, M12-1.25, Lh	1	
19	<u>2402</u>	Screw, 3/8-16 X 2.25 Hx Hd Cap	4	
20	<u>8754</u>	Locknut, 3/8-16 Hex	13	
21	<u>8861</u>	Bolt, 3/8-16 X 1.75 Hex	2	

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000311-001

FRONT SUSPENSION, LOWER

ITEM	PART NO.	DESCRIPTION	QTY	5 G E
		1 2 3 4		
1	<u>1010124</u>	Plate, Spring Mount	1	
2	<u>1010150</u>	Bearing, Thrust	2	
3	<u>1010177</u>	Bolt, 3/8-16 X 2.00 Hex Head	4	
4	<u>1014276</u>	Plate, Front Spring Retainer	1	
5	<u>1016384</u>	Clevis, Delta Upper	2	
6	<u>1016386</u>	King Pin Assembly	2	
7	<u>1016387</u>	Screw, 3/8-16 X 2.75 Hx Hd Cap	2	
8	<u>1016389</u>	Washer, 1.125 Od Wave	2	
9	<u>101870501</u>	Screw, 3/8-16 X 4.75 Hx Hd Cap	4	
10	<u>102564002</u>	Washer-1/2 Conical, Yellow	2	
11	<u>102684501</u>	Washer, M12 Hard Regular	2	
12	<u>102766301</u>	Nut, 1/2-20, Center Lock	2	
13	<u>103507001</u>	Eccentric Bolt Common	1	
14	N/A	Spring Asm, Front, 1 Leaf (includes items 15 through 17)	1	
15	<u>1012303</u>	Bushing, Steel	2	
16	<u>1015583</u>	Bushing, Urethane	4	
17	N/A	Spring, Front, 1 Leaf	1	
18	<u>357</u>	Lockwasher, 3/8 Split	4	
19	<u>706</u>	Nut, Hex 3/8-16	1	
20	<u>8754</u>	Locknut, 3/8-16 Hex	4	
21	<u>8755</u>	Screw, 3/8-16 X 3.375 Hex Cap	2	

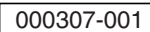


000301-002

FRONT SPINDLES AND HUBS

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	N/A	Replacement Kit, Front Hub (includes items 2 through 4)	2
2	<u>102353201</u>	Cap, Front Hub	1
3	<u>102353301</u>	Hex Nut, Locking Flange, M14x2	1
4	N/A	Asm, Front Hub, Bb, Long Stud (includes items 5 through 8)	1
5	N/A	Bearing, Ball, 6204	2
6	N/A	Spacer, Bearing, Front Hub, Pm	1
7	<u>103477901</u>	Lug Stud, 1/2-20 Unf, 4037	4
8	N/A	Front Hub, Ball Brg, Long Stud	1
9	N/A	Asm, Frt Hub & Spndle, Rh (includes items 10 through 17)	1
10	<u>102353201</u>	Cap, Front Hub	1
11	<u>102353301</u>	Hex Nut, Locking Flange, M14x2	1
12	N/A	Asm, Front Hub, Bb, Long Stud (includes items 13 through 16)	1
13	N/A	Bearing, Ball, 6204	2
14	N/A	Spacer, Bearing, Front Hub, Pm	1
15	<u>103477901</u>	Lug Stud, 1/2-20 Unf, 4037	4
16	N/A	Front Hub, Ball Brg, Long Stud	1
17	<u>103667103</u>	Asm, Spindle, Rh, Sp (includes items 18 through 21)	1
18	<u>1015597</u>	Fitting, 1/4-28 Thread-Forming Grease	1
19	N/A	Subasm, Spndle, Rh, 2wb	1
20	<u>7048</u>	Bushing, Flanged Bronze	1
21	<u>8067</u>	Bushing, Bronze Spindle	1
22	N/A	Asm, Frt Hub & Spndle, Lh (includes items 23 through 30)	1
23	<u>102353201</u>	Cap, Front Hub	1
24	<u>102353301</u>	Hex Nut, Locking Flange, M14x2	1
25	N/A	Asm, Front Hub, Bb, Long Stud (includes items 26 through 29)	1
26	N/A	Bearing, Ball, 6204	2
27	N/A	Spacer, Bearing, Front Hub, Pm	1
28	<u>103477901</u>	Lug Stud, 1/2-20 Unf, 4037	4
29	N/A	Front Hub, Ball Brg, Long Stud	1
30	<u>103667203</u>	Asm, Spindle, Lh, Sp (includes items 31 through 34)	1
31	<u>1015597</u>	Fitting, 1/4-28 Thread-Forming Grease	1
32	N/A	Subasm, Spndle, Lh, 2wb	1
33	<u>7048</u>	Bushing, Flanged Bronze	1
34	<u>8067</u>	Bushing, Bronze Spindle	1

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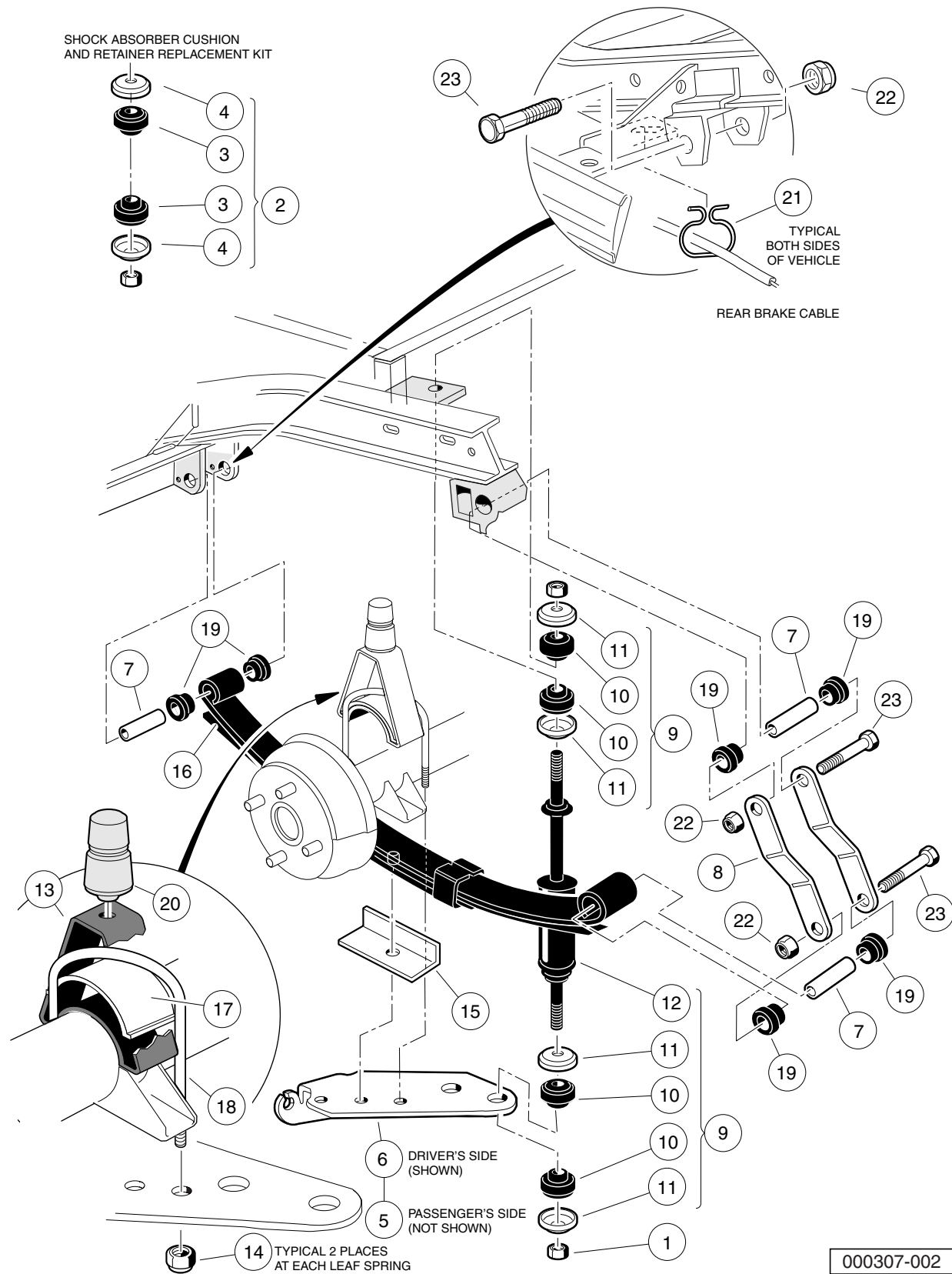
REAR SUSPENSION COMPONENTS

ITEM	PART NO.	DESCRIPTION	QTY	5 G E
		1 2 3 4		
1	<u>1010145</u>	Nut, 3/8-24 Hex	4	
2	<u>1011415</u>	Kit, Shock Absorber Cushion (includes items 3 and 4)	4	
3	<u>1010142</u>	Cushion, Shock Absorber	2	
4	<u>1010144</u>	Retainer, Shock Absorber Cushion	2	
5	<u>1012181</u>	Bracket, Shock Mounting, Right (Passenger)	1	
6	<u>1012182</u>	Bracket, Shock Mounting, Left (Driver)	1	
7	<u>1012303</u>	Bushing, Steel	6	
8	<u>1012304</u>	Shackle, Rear Spring	4	
9	<u>1013164</u>	Shock Absorber Kit (includes items 10 through 12)	1	
10	<u>1010142</u>	Cushion, Shock Absorber	8	
11	<u>1010144</u>	Retainer, Shock Absorber Cushion	8	
12	<u>102588501</u>	Shock Absorber Rear Prv Spd	2	
13	<u>1013207</u>	Hanger, Brake Cable	2	
14	<u>101454902</u>	Bumper Mount, Angled	2	
15	<u>1014555</u>	Locknut, 7/16-14 Nylon Hex	4	
16	<u>1014573</u>	Spring Retainer	2	
17	<u>1014675</u>	Rear Leaf Spring	2	
18	<u>1014901</u>	Spacer, Overload Bumper	2	
19	<u>1014902</u>	U-Bolt	2	
20	<u>1015583</u>	Bushing, Urethane	12	
21	<u>1017235</u>	Bumper, Jounce	2	
22	<u>8754</u>	Locknut, 3/8-16 Hex	6	
23	<u>8755</u>	Screw, 3/8-16 X 3.375 Hex Cap	6	
Note: Only the driver-side rear suspension is shown. Parts for the passenger-side rear suspension are identical except for the leaf spring/shock mounting plate.				

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REAR SUSPENSION COMPONENTS – GASOLINE VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY	5 G E
		1 2 3 4		
1	<u>1010145</u>	Nut, 3/8-24 Hex	4	
2	<u>1011415</u>	Kit, Shock Absorber Cushion (includes items 3 and 4)	4	
3	<u>1010142</u>	Cushion, Shock Absorber	2	
4	<u>1010144</u>	Retainer, Shock Absorber Cushion	2	
5	<u>1012181</u>	Bracket, Shock Mounting, Right (Passenger)	1	
6	<u>1012182</u>	Bracket, Shock Mounting, Left (Driver)	1	
7	<u>1012303</u>	Bushing, Steel	6	
8	<u>1012304</u>	Shackle, Rear Spring	4	
9	<u>1013164</u>	Shock Absorber Kit (includes items 10 through 12)	1	
10	<u>1010142</u>	Cushion, Shock Absorber	8	
11	<u>1010144</u>	Retainer, Shock Absorber Cushion	8	
12	<u>102588501</u>	Shock Absorber Rear Prv Spd	2	
13	<u>101454602</u>	Bumper Mount	2	
14	<u>1014555</u>	Locknut, 7/16-14 Nylon Hex	4	
15	<u>1014573</u>	Spring Retainer	2	
16	<u>1014675</u>	Rear Leaf Spring	2	
17	<u>1014901</u>	Spacer, Overload Bumper	2	
18	<u>1014902</u>	U-Bolt	2	
19	<u>1015583</u>	Bushing, Urethane	12	
20	<u>1017235</u>	Bumper, Jounce	2	
21	<u>101900801</u>	Hanger, Brake Cable	2	
22	<u>8754</u>	Locknut, 3/8-16 Hex	6	
23	<u>8755</u>	Screw, 3/8-16 X 3.375 Hex Cap	6	
Note: Only the driver-side rear suspension is shown. Parts for the passenger-side rear suspension are identical except for the leaf spring/shock mounting plate.				

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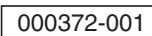
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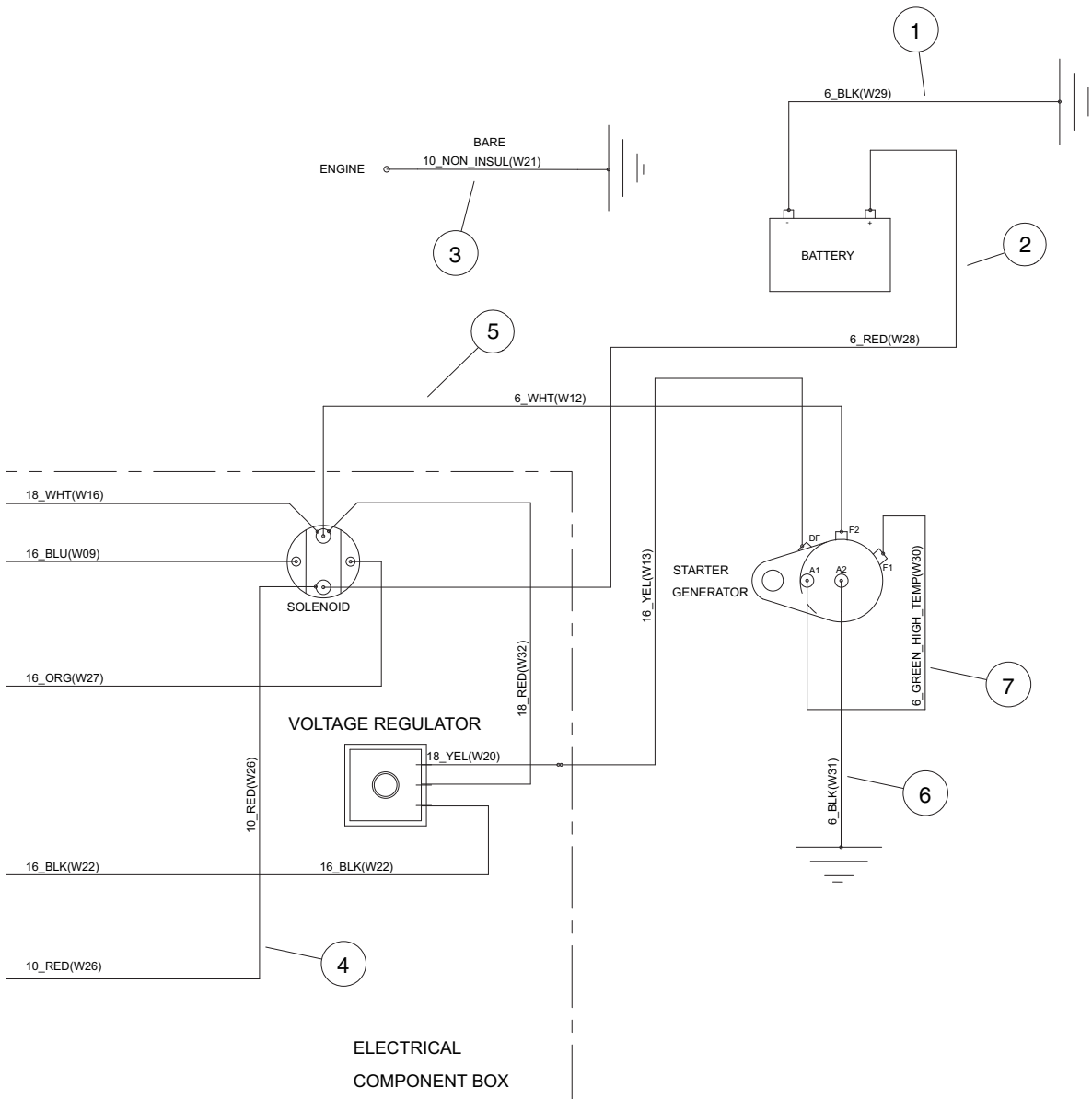
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ELECTRICAL SYSTEM – GASOLINE VEHICLES

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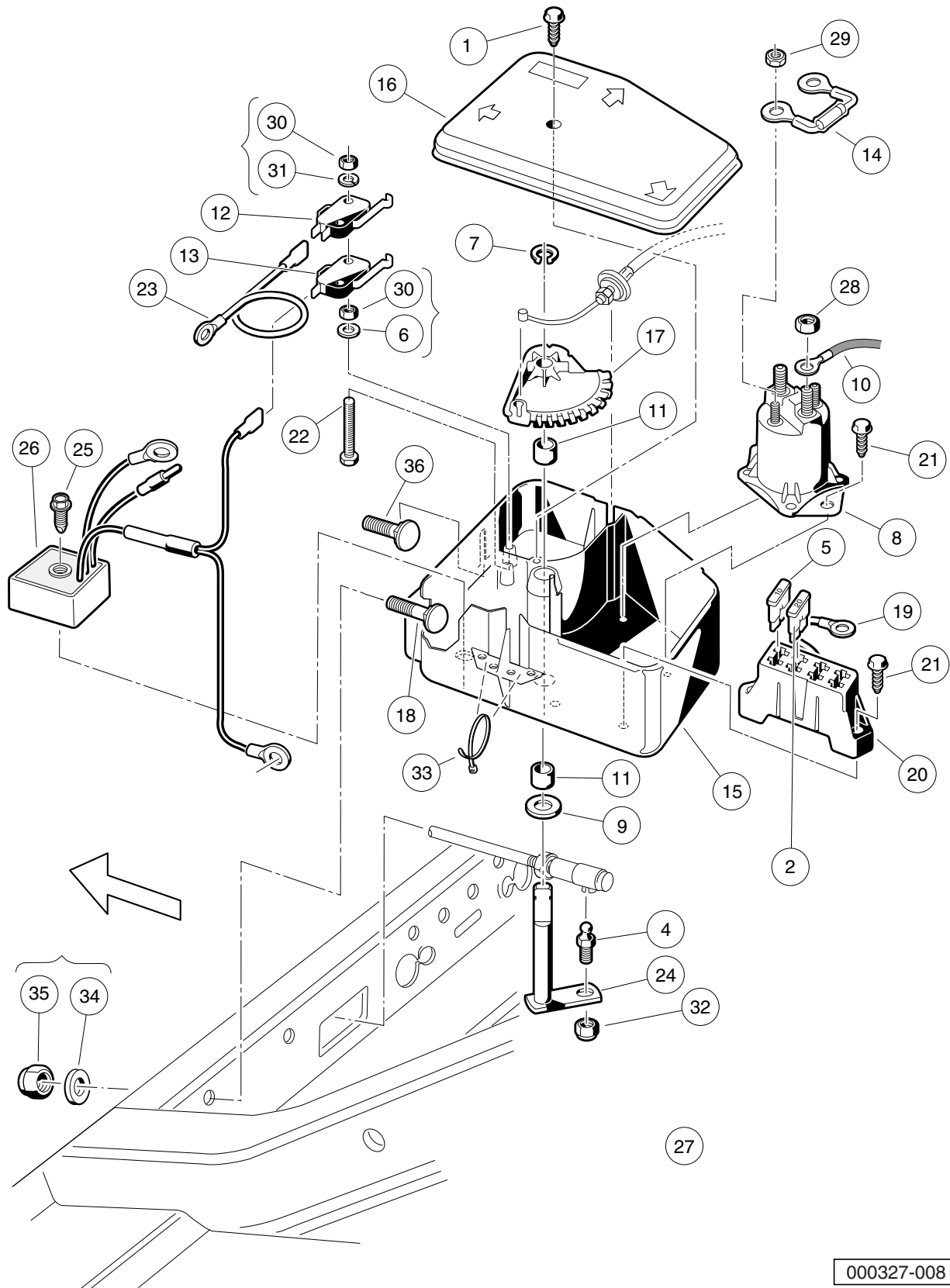
See previous two pages for illustration.

WIRING – GASOLINE DS VILLAGER 4

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1012382</u>	Wire Assy, #6 Black	1
2	<u>1014119</u>	Wire Assembly #6 Red	1
3	<u>1015332</u>	Wire Assembly, #10, Uninsulated	1
4	<u>1015737</u>	Wire Assy, #10 Red	1
5	<u>1015769</u>	Wire Assy, #6 White	1
6	<u>1015920</u>	Ground Wire Assembly	1
7	<u>101837301</u>	Wire Assy, #6 Green	1
8	<u>103332402</u>	Assy Wire Harness Gas V4 Kit	1

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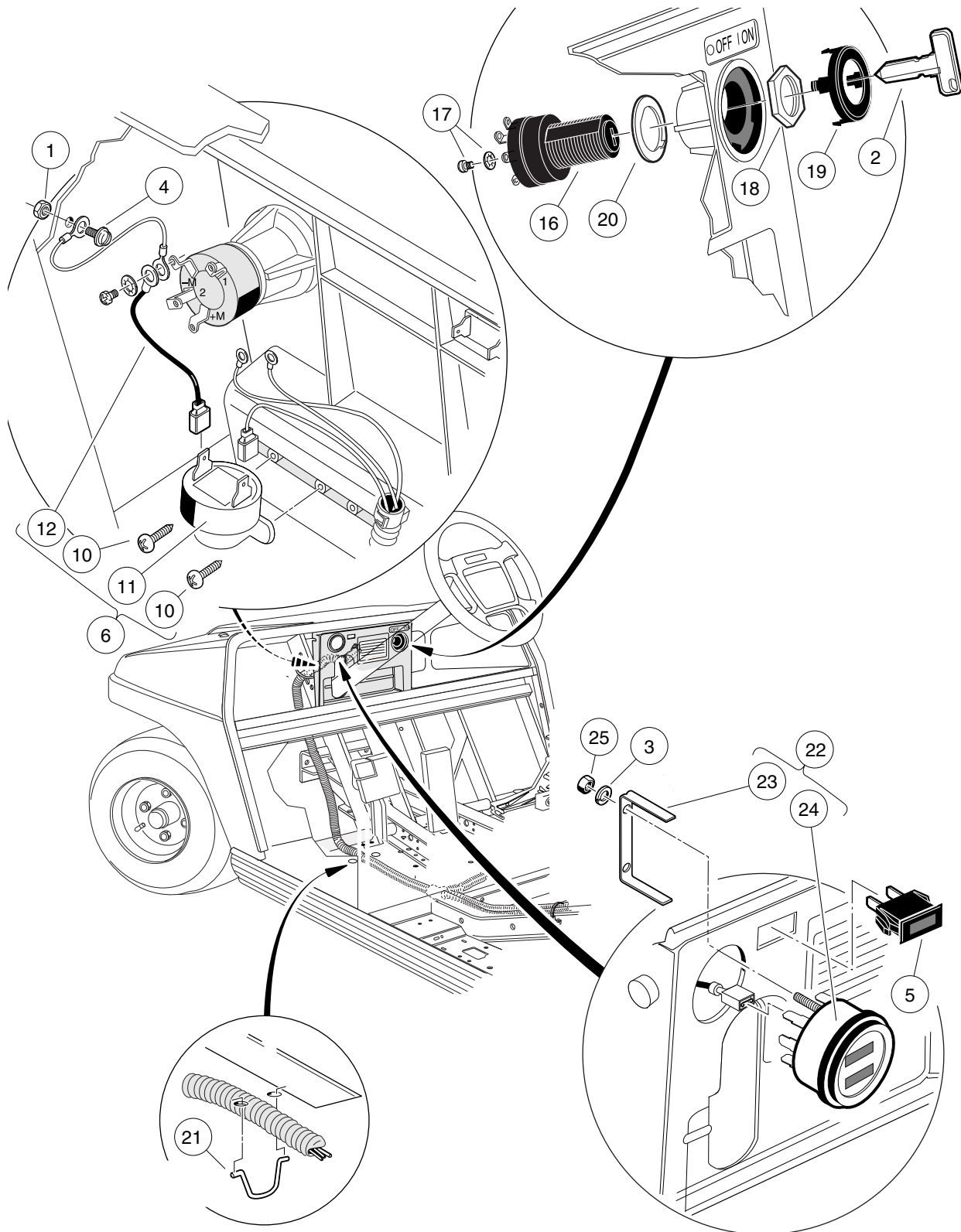


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2008 ELECTRICAL COMPONENT BOX – GASOLINE DS VILLAGER 4

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1015752</u>	Screw, #12-16 X 0.625 Hi-Lo	1
2	<u>1016423</u>	Fuse, 20-Amp	1
3	N/A	Elec Component Box Asm, V4 (includes items 4 through 33)	1
4	<u>1010954</u>	Stud, 1/4-28 X 0.560 Ball	1
5	<u>1012295</u>	Fuse, 10-Amp	1
6	<u>1012431</u>	Washer, #4 Flat	2
7	<u>1013589</u>	Ring, 0.338" Internal Retaining	1
8	<u>1013609</u>	Solenoid, 12-Volt	1
9	<u>1014065</u>	Washer, 0.38" ID Delrin Flat	1
10	<u>1014119</u>	Wire Assembly #6 Red	1
11	<u>1014145</u>	Bushing, Secondary Weight, Split	2
12	<u>1014807</u>	Switch, Limit	1
13	<u>1014808</u>	Switch, Limit	1
14	<u>1014948</u>	Diode	1
15	<u>1015371</u>	Box, Electrical Component	1
16	<u>1015372</u>	Cover, Electric Box	1
17	<u>1015373</u>	Cam, Electric Box	1
18	<u>1015405</u>	Bolt, Carriage, 5/16-18 X 2.0	1
19	<u>1015737</u>	Wire Assy, #10 Red	1
20	<u>1015741</u>	Fuse Block	1
21	<u>1015752</u>	Screw, #12-16 X 0.625 Hi-Lo	4
22	<u>1015878</u>	Screw, #4-40 Hex Head Machine	2
23	<u>1016401</u>	Wire Assy, #16 Orange	1
24	<u>101821301</u>	Bell Crank Weld Asm	1
25	<u>101856102</u>	Screw, 1/4-15 X 1.50 Hi-lo Hex	1
26	<u>102711201</u>	Voltage Regulator	1
27	<u>103332402</u>	Assy Wire Harness Gas V4 Kit	1
28	<u>1242</u>	Nut, 5/16-18 Hex	2
29	<u>7893</u>	Nut, #10-32 Hex	2
30	<u>8057</u>	Nut, #4-40 Hex Machine	4
31	<u>8058</u>	Lockwasher, #4 Split	2
32	<u>8717</u>	Locknut, 1/4-28 Nylon Insert	1
33	<u>8990</u>	Tie Wrap, 8" Nylon	2
34	<u>1241</u>	Washer, 5/16 Type A Flat	2
35	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	2
36	<u>7818</u>	Bolt, Carriage, 5/16-18 X 1.5	1

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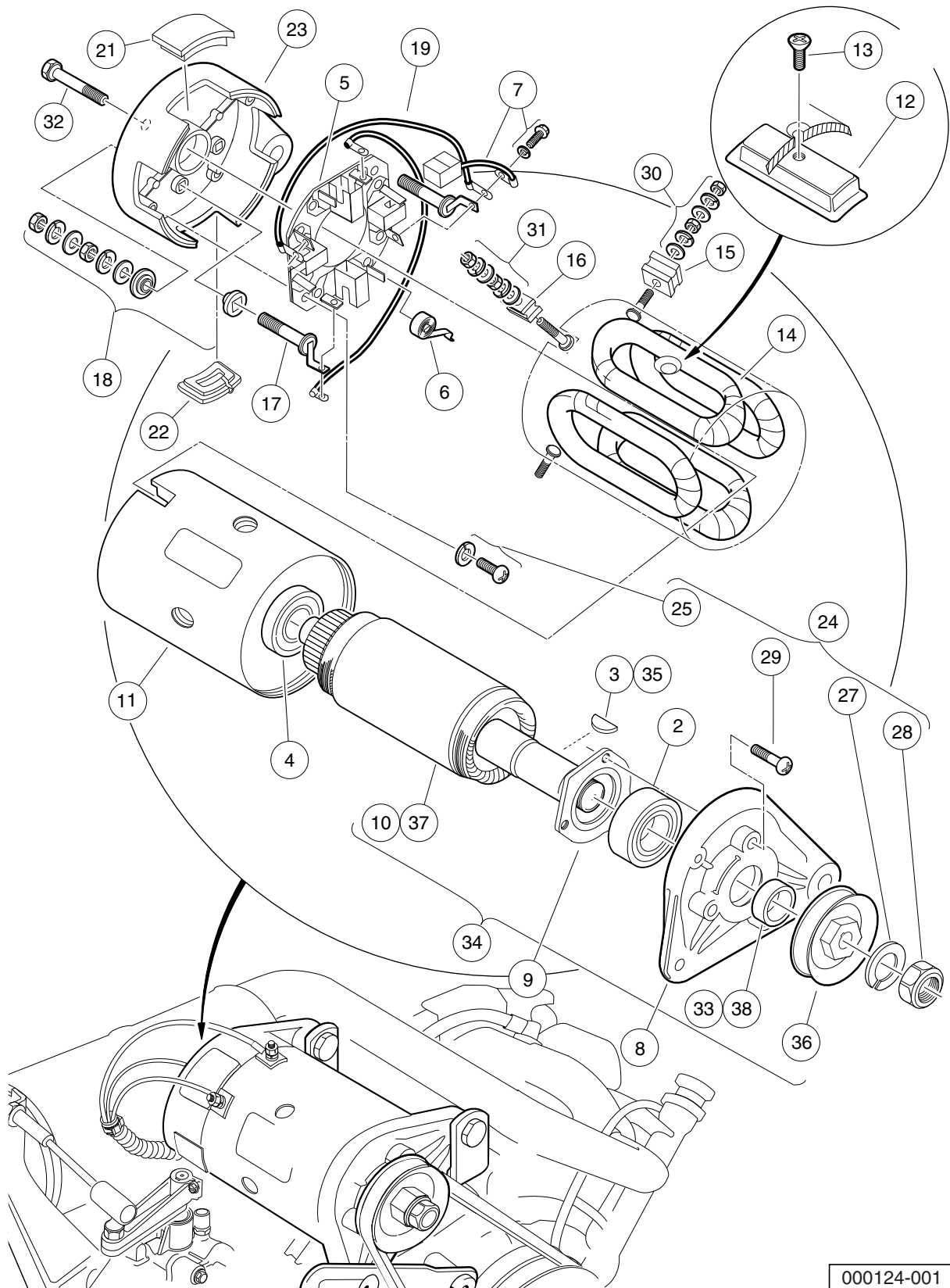
000330-001

CONTROLS AND INDICATORS

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1011229</u>	Locknut, #6-32 Whiz	1
2	<u>1012505</u>	Keys (set of 2)	2
3	<u>1012986</u>	Lockwasher, M4	2
4	<u>1015720</u>	Screw, #6-32 X 1/2 Hex Washer-Head	1
5	<u>1016630</u>	Light, Oil	1
6	<u>1016859</u>	Kit, Reverse Buzzer (includes items 7 through 15)	1
7	<u>1011229</u>	Locknut, #6-32 Whiz	1
8	<u>1012431</u>	Washer, #4 Flat	2
9	<u>1015720</u>	Screw, #6-32 X 1/2 Hex Washer-Head	1
10	<u>1016849</u>	Screw, #4-24 X 0.33 Pan-Head Machine	2
11	<u>1016851</u>	Buzzer, Reverse (9-48 VDC)	1
12	<u>1016857</u>	Wire Assembly Black #18	1
13	<u>8056</u>	Screw, #4-40 X 0.75 Round-Head Machine	2
14	<u>8057</u>	Nut, #4-40 Hex Machine	2
15	<u>8058</u>	Lockwasher, #4 Split	2
16	<u>101826301</u>	Key Switch, 12-Volt, Off/On	1
17	<u>101830601</u>	Screw and Washer Assembly	4
18	<u>101830701</u>	Nut, Key Switch	1
19	<u>101834502</u>	Cap, Black Key Switch	1
20	<u>101851101</u>	Washer, Key Switch	1
21	<u>101900901</u>	Harness Retainer	3
22	<u>101990703</u>	Gauge, Fuel/Hour, with Bracket (includes items 23 and 24)	1
23	<u>102025901</u>	Bracket, Fuel Gauge/Hour Meter	1
24	N/A	Gauge, Fuel/Hour	1
25	<u>101991101</u>	Nut, M4-0.7	2
Note: Items 7 through 9, and 13 through 15 are included in the reverse buzzer kit, but are not used in this application.			

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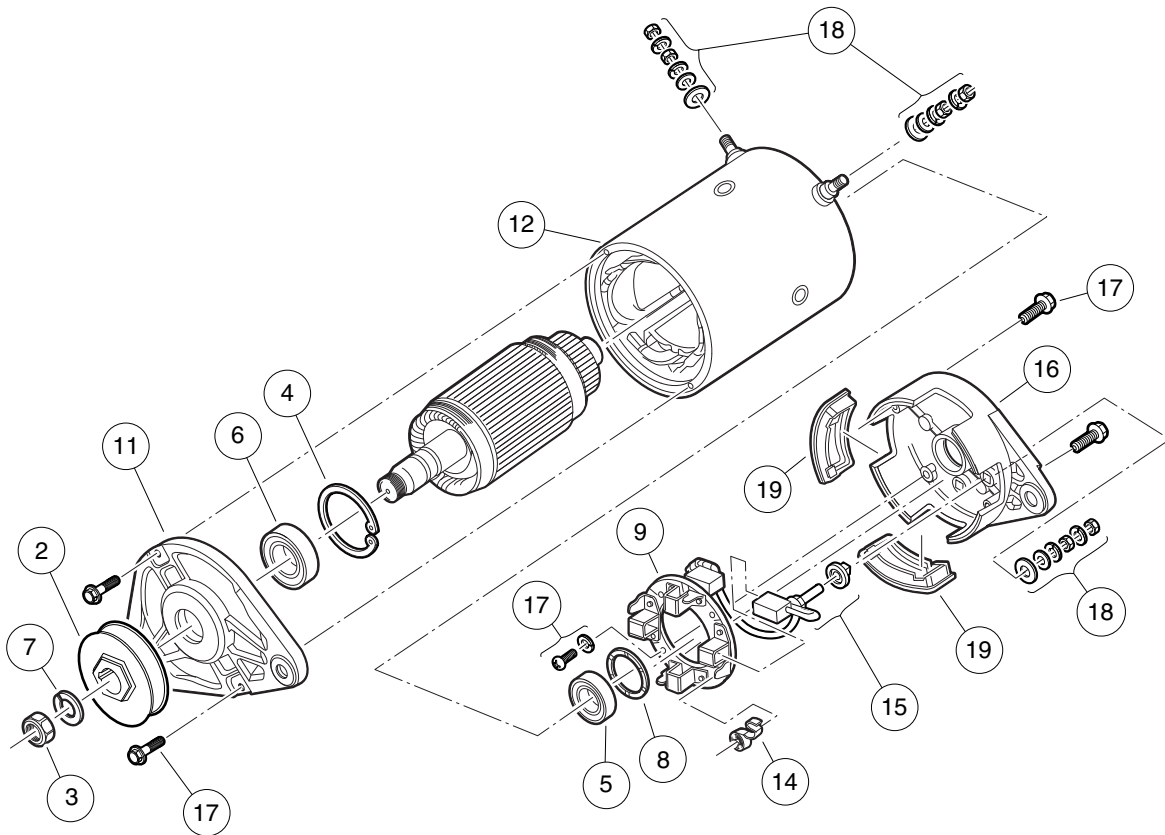
000124-001

STARTER/GENERATOR ASSEMBLY MODEL G425419 – GASOLINE VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>101833701</u>	Starter/Generator (cw) (includes items 2 through 33)	1
2	<u>1013001</u>	Bearing, Output Shaft Ball	1
3	<u>1013003</u>	Key, Starter/Generator	1
4	<u>1013005</u>	Bearing, Ball	1
5	<u>101301102</u>	Brush Holder Assembly (cw) (includes item 6)	1
6	<u>101878101</u>	Brush Spring Set	4
7	<u>101869302</u>	Brush and Screw Set (cw)	1
8	<u>101874901</u>	Front Bracket	1
9	<u>101875001</u>	Retainer	1
10	<u>101875101</u>	Armature	1
11	<u>101875201</u>	Field Coil Housing	1
12	<u>101875301</u>	Pole Set	1
13	<u>101875401</u>	Screw Set	1
14	<u>101875501</u>	Field Stator Coil Assembly	1
15	<u>101875601</u>	F Insulator Set	2
16	<u>101875701</u>	DF Insulator	1
17	<u>101875802</u>	A Connector (cw)	1
18	<u>101876001</u>	Screw and Mold Assembly	2
19	<u>101876202</u>	Brush Connector Assembly (cw)	2
20	<u>101876301</u>	Cover Set (includes items 21 and 22)	1
21	<u>1012991</u>	Brush Inspection Port Cover	3
22	<u>1017653</u>	Brush Port Cover w/Drain	1
23	<u>101876402</u>	Rear Bracket (cw)	1
24	<u>101876501</u>	Nut and Screw Set (includes items 25 through 29)	1
25	<u>101896501</u>	Brush Holder Asm Screw	2
26	N/A	Washer, M5 Flat	1
27	N/A	Washer, M14 Lock	1
28	N/A	Nut, Hex, M14 x 2	1
29	N/A	Screw, M5 x 0.8 x 18mm	3
30	<u>101877601</u>	Nut and Washer Set	2
31	<u>101877701</u>	Nut and Washer Set	1
32	<u>101879001</u>	Through Bolt Set	2
33	<u>101939901</u>	Spacer	1
34	<u>101875102</u>	Armature Asm Conversion Kit (includes items 35 through 38)	1
35	<u>1013003</u>	Key, Starter/Generator	1
36	<u>1014289</u>	Pulley, Starter/Generator	1
37	<u>101875101</u>	Armature	1
38	<u>101939901</u>	Spacer	1
		Note: Item 36 will ONLY fit Model G425419 Starter/Generator.	

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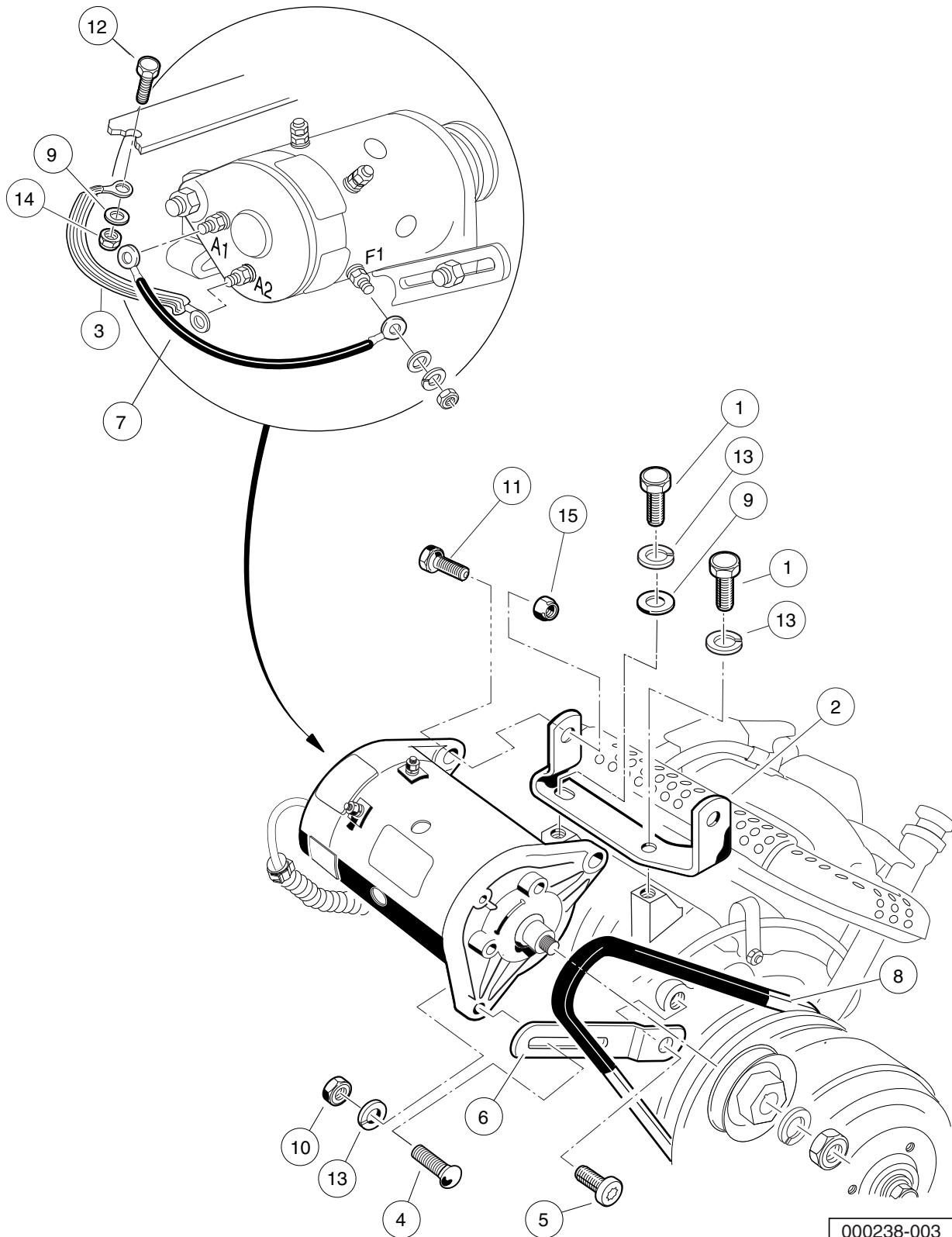
000124-002

STARTER/GENERATOR ASSEMBLY MODEL 114-01-4005 – GASOLINE VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>102628201</u>	Starter/Generator Bi-Rotational (includes items 2 through 19)	1
2	<u>102711001</u>	Pulley, V-Belt	1
3	<u>102838701</u>	Nut, Hex, M14x2, S-g	1
4	<u>102838801</u>	Retainer, Front, S-g	1
5	<u>102838901</u>	Bearing, Ball, Front, S-g	1
6	<u>102839001</u>	Bearing, Ball, Front, S-g	1
7	<u>102839301</u>	Washer, Lock M14x2, S-g	1
8	<u>102841101</u>	Washer, Wave, S-g	1
9	<u>102844401</u>	Assembly, Brush Plate, Starter/Generator	1
10	<u>102844501</u>	Asm, Armature, Starter/Generator	1
11	<u>102844601</u>	Head, Drive End, S-g	1
12	<u>102844701</u>	Asm, Frame and Field, Starter/Generator	1
13	<u>103347101</u>	Kit, Spring Brush, Starter/Generator (includes item 14)	1
14	N/A	Spring, Brush, S-g	4
15	<u>103347301</u>	Set, Brush Term, S-g	1
16	<u>103347601</u>	Head, Comm End, S-g	1
17	<u>103347701</u>	Set, Fast, Ceh Deh, S-g	1
18	<u>103347801</u>	Set, Term Hadrware, S/G	1
19	<u>103347901</u>	Kit, Cover, Brush Insp, Starter/Generator (includes items 20 and 21)	1
20	N/A	Plug, Rubber Drain, Start/Generator	3
21	N/A	Cover, Inspection, S-g	1
Note: Item 2 will ONLY fit Model 114-01-4005 Starter/Generator.			

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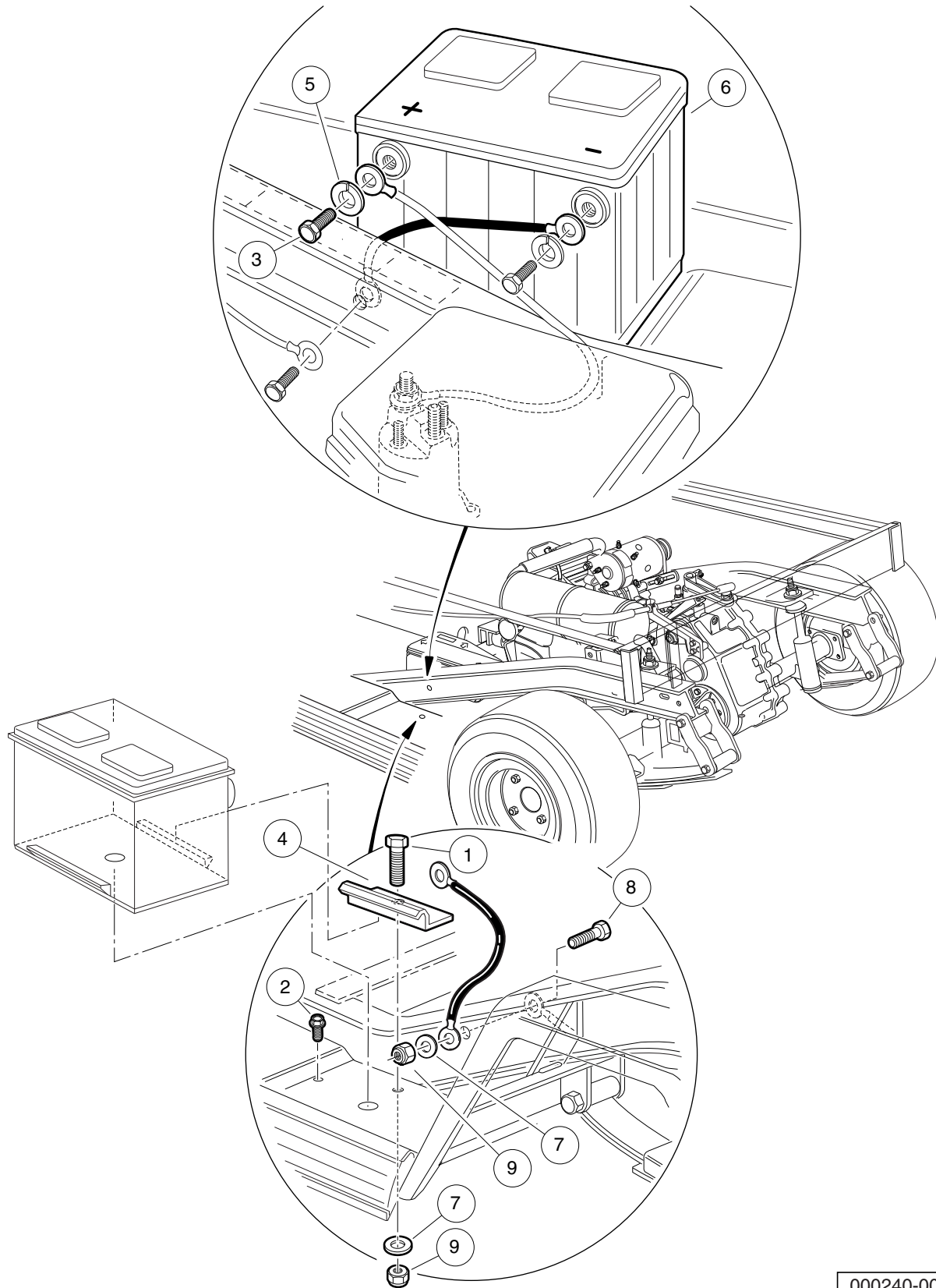
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000238-003

FE290 STARTER/GENERATOR MOUNTING – GASOLINE DS VILLAGER 4

ITEM	PART NO.	DESCRIPTION	QTY	6	G
		1 2 3 4			
1	<u>1012830</u>	Screw, M8-125 X 22 Hex-Head	2		
2	<u>101524001</u>	Bracket, Starter/Generator Mounting (FE290)	1		
3	<u>1015920</u>	Ground Wire Assembly	1		
4	<u>1015932</u>	Bolt, Carriage, 5/16-18	1		
5	<u>1016074</u>	Screw, M8-1.25 X 18mm Torx	1		
6	<u>1016883</u>	Bracket, Starter/Generator Adjustment	1		
7	<u>101837301</u>	Wire Assy, #6 Green	1		
8	<u>101916701</u>	V-Belt	1		
9	<u>1241</u>	Washer, 5/16 Type A Flat	1		
10	<u>1242</u>	Nut, 5/16-18 Hex	1		
11	<u>705</u>	Screw, Cap-hex Hd 3/8-16x1.25	2		
12	<u>7173</u>	Screw, 5/16-18 X 0.75 Hex-Head Cap	1		
13	<u>7174</u>	Lockwasher, 5/16 Split	3		
14	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	1		
15	<u>8754</u>	Locknut, 3/8-16 Hex	2		



000240-001

BATTERY – GASOLINE VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY	6
		1 2 3 4		G
1	<u>1010934</u>	Screw, 5/16-18 X 1.00 Hex Cap	1	
2	<u>1014288</u>	Screw, 5/16-18 X 0.75 Thread-Forming	1	
3	<u>1014375</u>	Screw, 3/8-16 X 0.50 Stainless Steel Hex-Head	2	
4	<u>101898001</u>	Clamp, Battery	1	
5	<u>102355301</u>	Lockwasher, #10 Split Ss	2	
6	N/A	Battery, Start, 12v	1	
7	<u>1241</u>	Washer, 5/16 Type A Flat	2	
8	<u>7173</u>	Screw, 5/16-18 X 0.75 Hex-Head Cap	1	
9	<u>7473</u>	Locknut, 5/16-18 Nylon Insert	2	

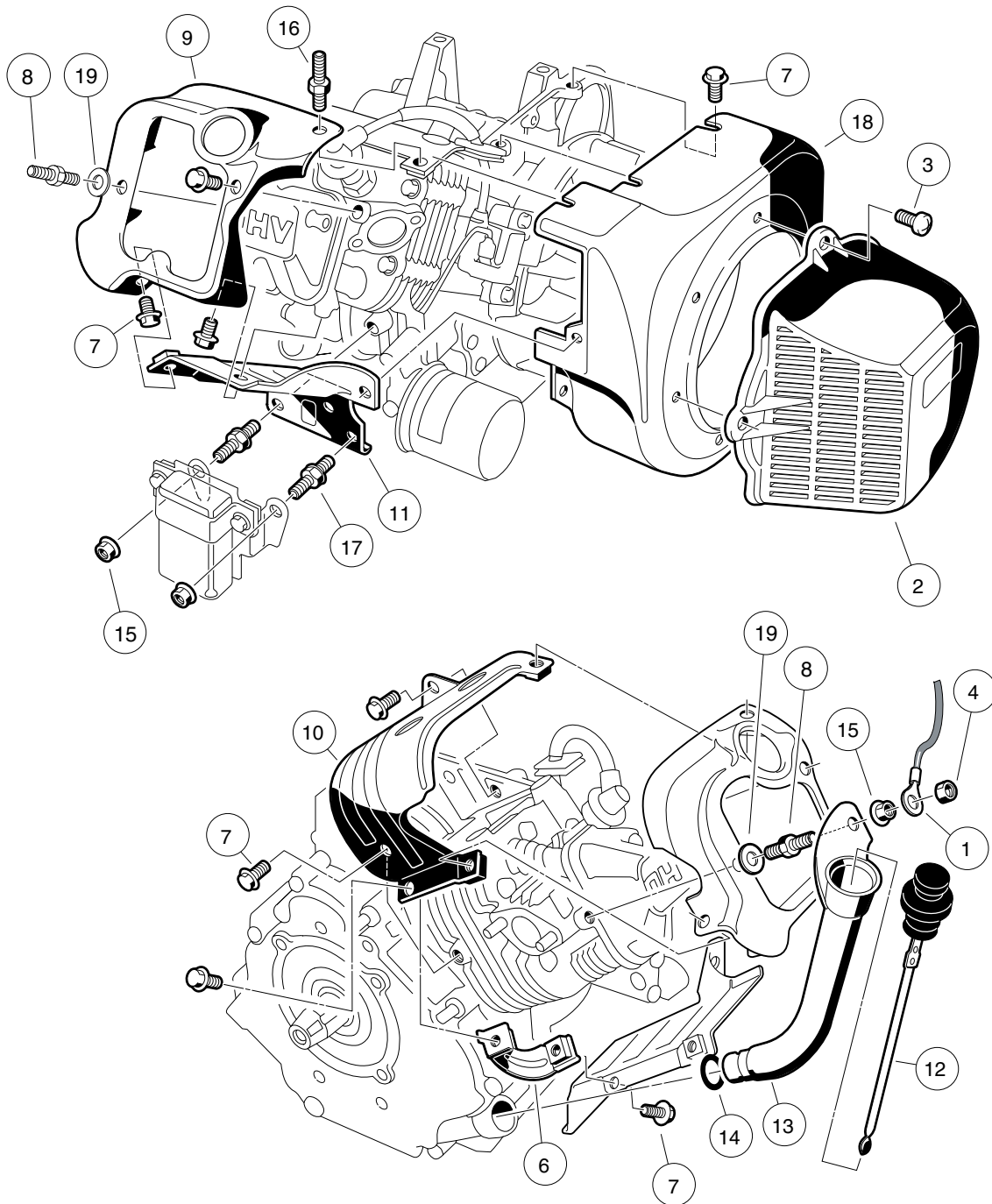
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FE290 ENGINE

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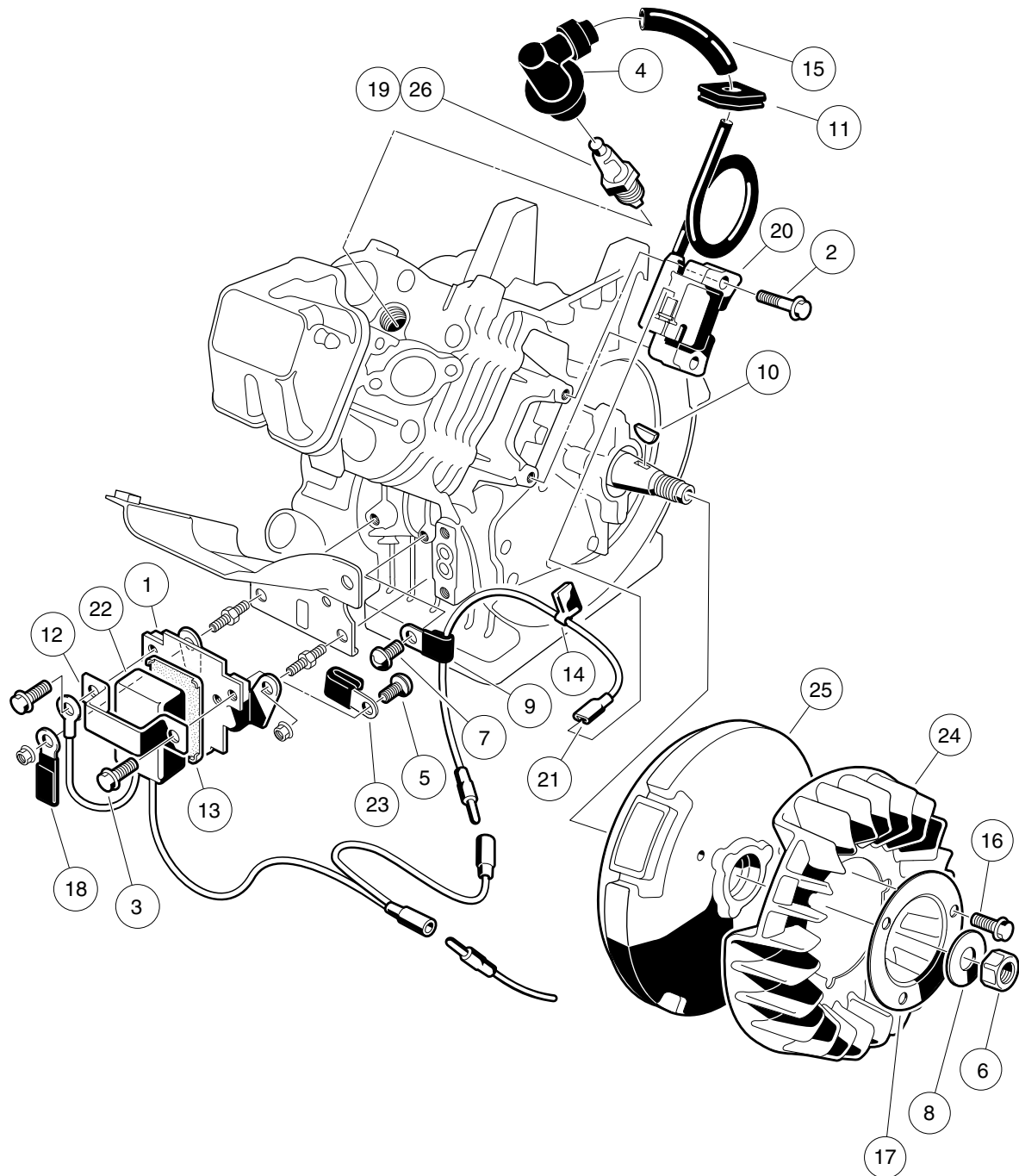
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000194-001

FE290 ENGINE – SHROUDS AND BRACKETS

ITEM	PART NO.	DESCRIPTION	QTY	7
		1 2 3 4		G
1	<u>1015332</u>	Wire Assembly, #10, Uninsulated	1	
2	<u>1015649</u>	Shroud, Fan	1	
3	<u>1015969</u>	Screw, M6-1.00 X 10mm Pan Hd	4	
4	<u>101887601</u>	Locknut, M6-1.00 Nylon Insert	1	
5	<u>101953901</u>	Engine, FE290 (cw) * (includes items 6 through 19)	1	
6	<u>1016443</u>	Bracket	1	
7	<u>1016456</u>	Bolt, Flange Head, M6 x 1 x 12 mm	15	
8	<u>1016507</u>	Bolt, Two-Ended	1	
9	<u>1016524</u>	Shroud, Engine, FE290D	1	
10	<u>1016525</u>	Shroud, Engine, FE290D	1	
11	<u>1016526</u>	Shroud, Engine, FE290D	1	
12	<u>1016531</u>	Dipstick	1	
13	<u>1016536</u>	Tube, Oil Filler, FE290D	1	
14	<u>1016539</u>	O-Ring	1	
15	<u>1016547</u>	Nut, M6 Flange	3	
16	<u>1017221</u>	Screw, M6-1.00 Stud	1	
17	<u>101909701</u>	Stud, M6-1.00, Two-Ended	2	
18	<u>101915601</u>	Housing, FE290 Fan	1	
19	N/A	Washer, 6 mm Flat	1	
* Note: FE290 engine component listings span several pages.				



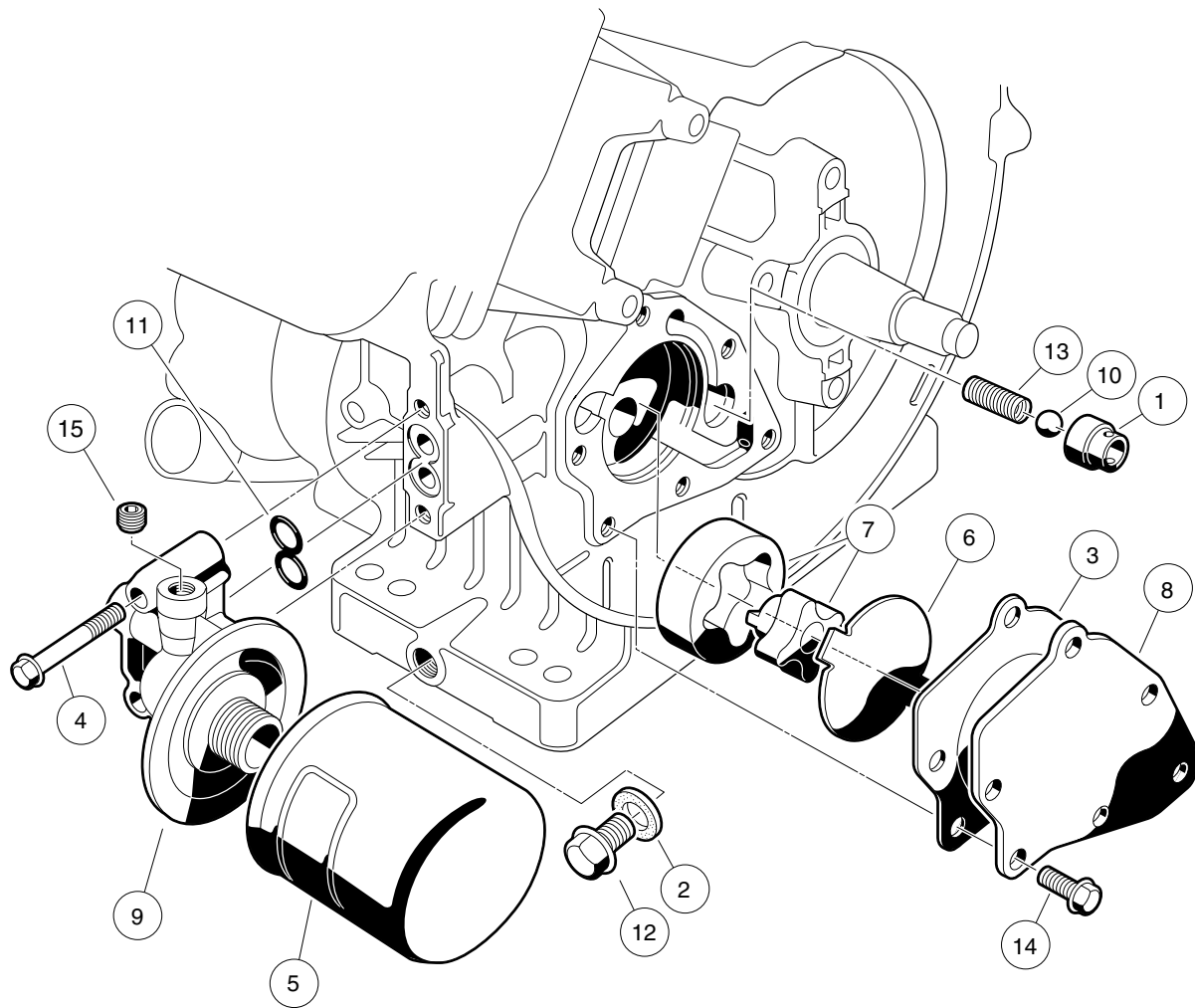
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FE290 ENGINE – IGNITION COMPONENTS AND FLYWHEEL

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016445	Bracket, RPM Limiter	1
2	<u>1016455</u>	Bolt, Flange Head	2
3	1016456	Bolt, Flange Head, M6 x 1 x 12 mm	2
4	<u>1016493</u>	Cap, Spark Plug	1
5	<u>1016497</u>	Screw, Pan WP Cross	1
6	<u>1016505</u>	Nut, Hex, Fine	1
7	<u>1016544</u>	Screw	1
8	<u>1016548</u>	Washer, M16 Flat	1
9	<u>1016561</u>	Clamp	1
10	<u>1016562</u>	Key	1
11	<u>1016578</u>	Ignition, Grommet	1
12	<u>1016579</u>	Band, RPM Limiter Mount	1
13	1016586	Damper, RPM Limiter	1
14	<u>1016587</u>	Clamp	1
15	<u>1016588</u>	Tube, 7mm X 10mm X 70mm	1
16	<u>1017448</u>	Bolt, Flanged	3
17	<u>1017455</u>	Plate, Flywheel Fan	1
18	<u>1017468</u>	Clamp	1
19	<u>101881101</u>	Spark Plug, OHV (Autolite)	1
20	<u>101909201</u>	Coil, Ignition	1
21	<u>101909301</u>	Lead Wire Assy	1
22	101909401	Limiter, RPM	1
23	101909501	Clamp, Steel	1
24	<u>101915801</u>	Fan, FE290 (cw)	1
25	<u>101929301</u>	Flywheel, Complete	1
26	<u>AM10724</u>	Spark Plug, OHV (NGK)	1

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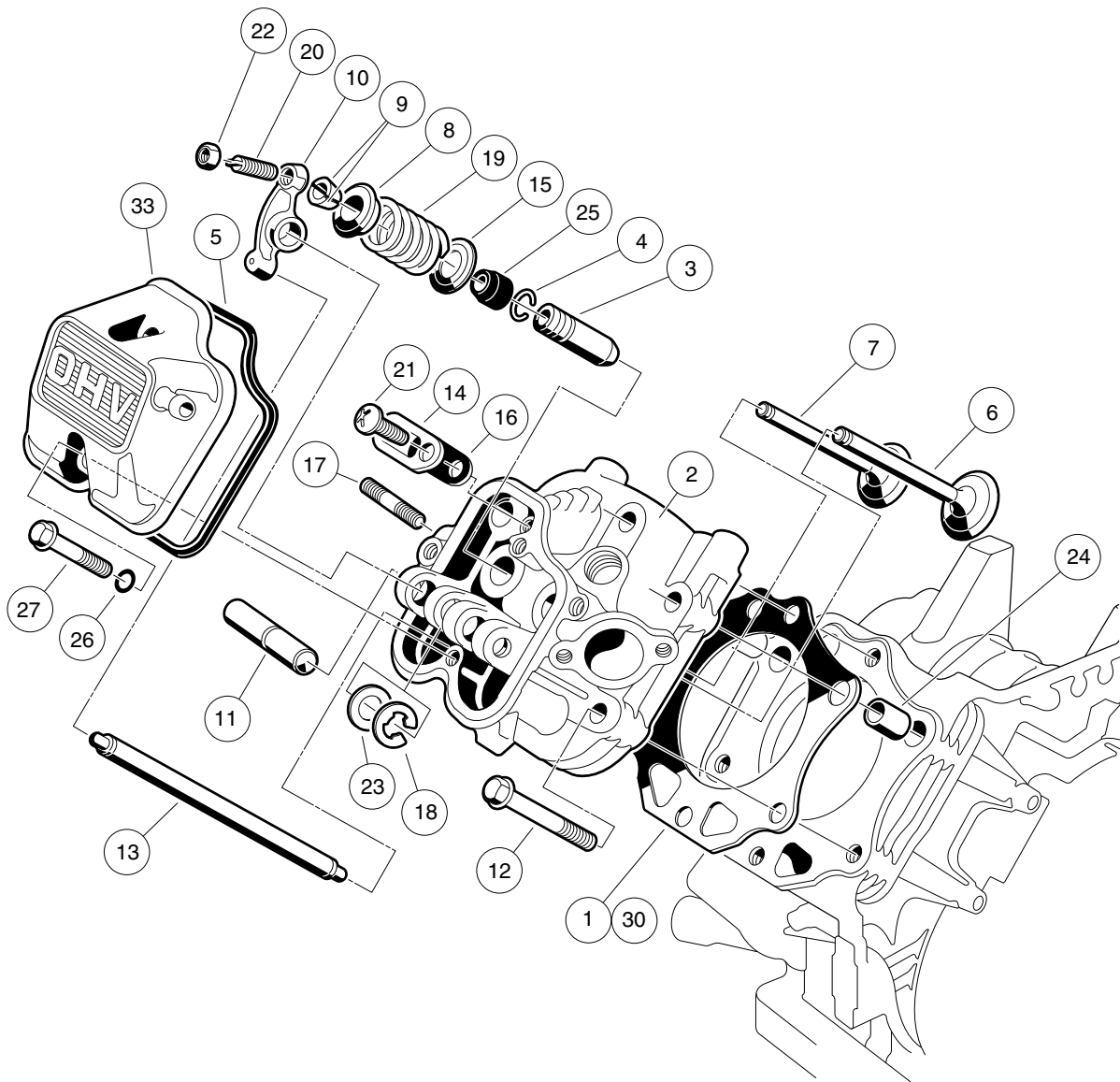
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000196-001

FE290 ENGINE – OIL CIRCULATION

ITEM	PART NO.	DESCRIPTION	QTY	7
		1 2 3 4		G
1	1016429	Seat, Value Oil Press Relief	1	
2	<u>1016432</u>	Gasket, Drain Plug	1	
3	<u>1016435</u>	Gasket, Oil Pump	1	
4	<u>1016457</u>	Bolt, Flange Head	2	
5	<u>1016467</u>	Filter, Oil	1	
6	<u>1016473</u>	Plate, Oil Pump	1	
7	<u>101648203</u>	Oil Pump And Rotor	1	
8	<u>1016484</u>	Cover, Pump	1	
9	<u>1016502</u>	Bracket, Oil Filter Mount	1	
10	<u>1016537</u>	Ball, Steel, Press, Relief	1	
11	<u>1016570</u>	O-Ring	1	
12	<u>1016576</u>	Plug, Drain	1	
13	<u>1016581</u>	Spring	1	
14	<u>1017456</u>	Bolt, Flanged	6	
15	<u>1017507</u>	Plug	2	

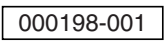


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FE290 ENGINE – CYLINDER HEAD

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1016430</u>	Gasket, Head, FE290	1
2	<u>1016431</u>	Head Assembly, FE290 Cylinder (includes items 3 and 4)	1
3	<u>1016519</u>	Guide, Valve	2
4	<u>1016560</u>	Snap Ring	2
5	<u>1016436</u>	Gasket, Rocker Case	1
6	<u>1016447</u>	Valve, Intake	1
7	<u>1016448</u>	Valve, Exhaust	1
8	<u>1016449</u>	Retainer, Valve Spring	2
9	<u>1016450</u>	Collet	4
10	<u>1016451</u>	Arm, Rocker	2
11	<u>1016452</u>	Shaft, Rocker	1
12	<u>1016458</u>	Bolt, Flange Head, M8 x 1.25 x 45 mm	6
13	<u>1016471</u>	Rod, Push	2
14	<u>1016474</u>	Plate	1
15	<u>1016479</u>	Seat, Spring	2
16	<u>1016483</u>	Valve	1
17	<u>1016489</u>	Stud, Two-Ended, M8-1.25	2
18	<u>1016517</u>	Circlip, Type-E	1
19	<u>1016523</u>	Spring, Engine Valve	2
20	<u>1016542</u>	Screw	2
21	<u>1016544</u>	Screw	1
22	<u>1016545</u>	Nut	2
23	<u>1016549</u>	Washer, 12.1x19x1.8	1
24	<u>1016563</u>	Pin	2
25	<u>1016566</u>	Seal, Oil	2
26	<u>1016569</u>	O-Ring	2
27	<u>1016583</u>	Bolt, 6x35	2
28	<u>102304701</u>	Kit, Gasket, FE290 (includes items 29 through 32)	1
29	<u>1015330</u>	Gasket, Exhaust	1
30	<u>1016430</u>	Gasket, Head, FE290	1
31	<u>1016440</u>	Gasket, Engine to Insulator	1
32	<u>1016446</u>	Gasket, Crankcase Cover	1
33	<u>102753401</u>	Case, Rocker	1

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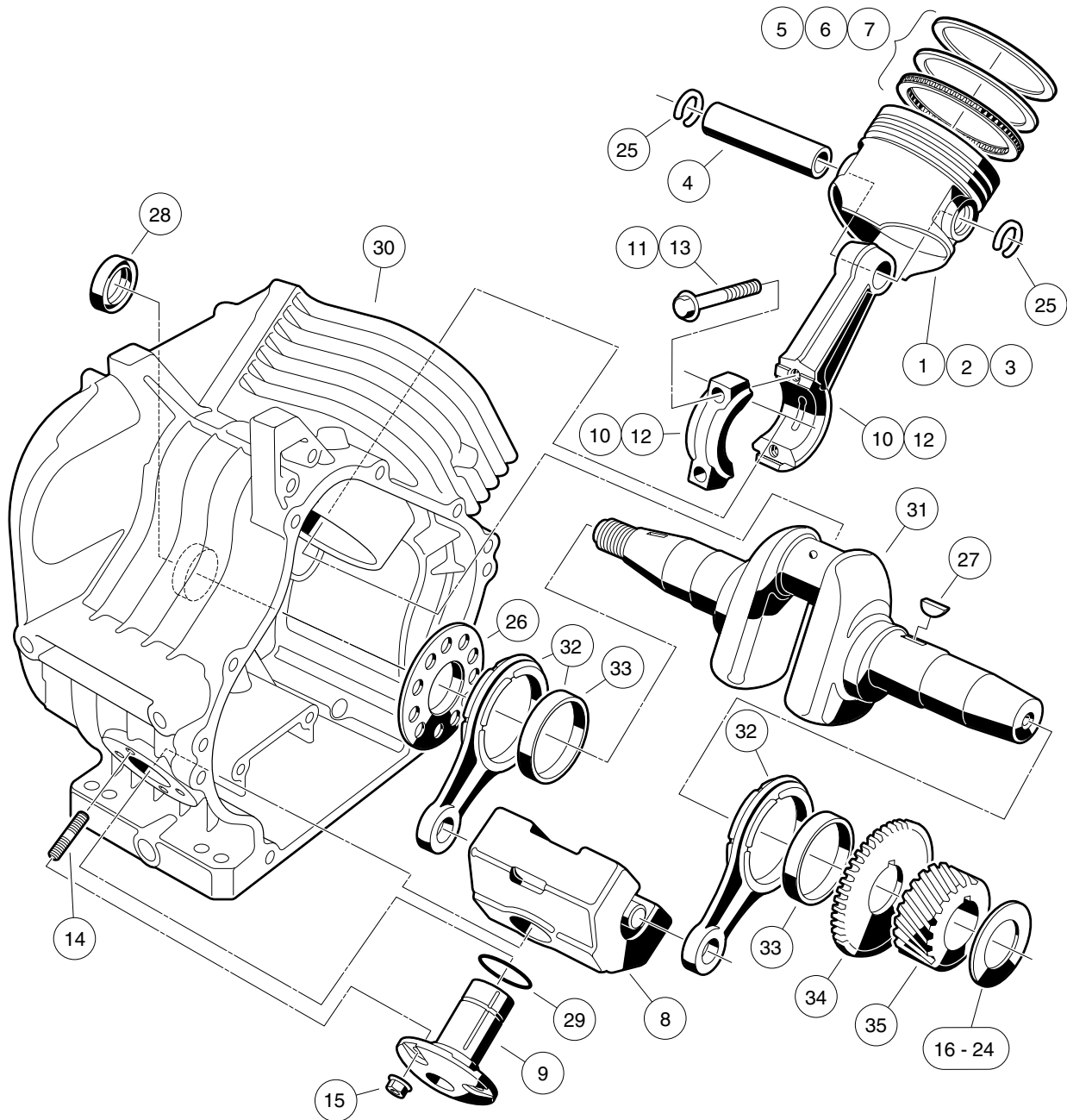


FE290 ENGINE – CRANKCASE, CAMSHAFT, AND OIL SENSOR

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1016446</u>	Gasket, Crankcase Cover	1
2	<u>1016453</u>	Tappet	2
3	<u>1016454</u>	Bolt, Flange Head, M5 x 0.8 x 8 mm	2
4	<u>1016456</u>	Bolt, Flange Head, M6 x 1 x 12 mm	2
5	<u>1016458</u>	Bolt, Flange Head, M8 x 1.25 x 45 mm	6
6	<u>1016472</u>	Plate, Oil Filter Screen	1
7	<u>1016494</u>	Sensor, Oil Level	1
8	<u>1016496</u>	Screw, Cross Pan-Head, M4 x 0.7 x 8 mm	3
9	<u>1016506</u>	Clamp	1
10	<u>1016510</u>	Bracket, Switch, Oil Level	1
11	<u>1016520</u>	Cover, Crankcase	1
12	<u>1016521</u>	Screen, Oil Filter	1
13	<u>1016535</u>	Connector, Cord	1
14	<u>1016538</u>	O-Ring	1
15	<u>1016544</u>	Screw	1
16	<u>1016564</u>	Pin	2
17	<u>1016565</u>	Bearing, Ball	1
18	<u>1016567</u>	Seal, Crankshaft	1
19	<u>1016584</u>	Bolt, Two-Ended, M8 x 1.25 x 69 mm	2
20	<u>101915401</u>	Camshaft Complete, FE290	1

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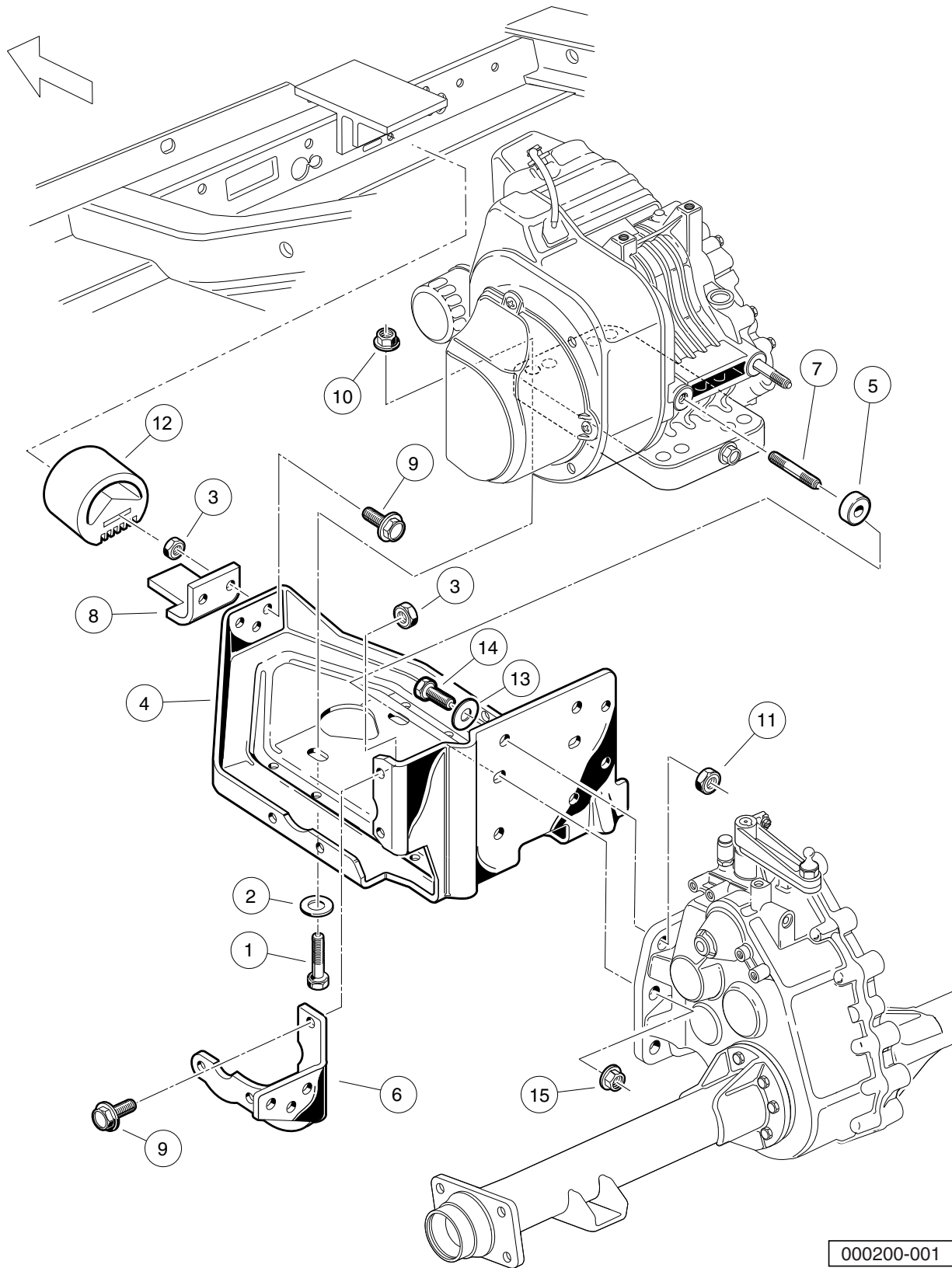
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FE290 ENGINE – CRANKCASE AND CRANKSHAFT

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>101645901</u>	Piston	1
2	<u>101645902</u>	Piston, Engine 0.25 mm Over	1
3	<u>101645903</u>	Piston, Engine 0.50 mm Over	1
4	<u>1016460</u>	Pin, Piston	1
5	<u>101646101</u>	Ring Set, Piston	1
6	<u>101646102</u>	Ring Set, Piston 0.25 mm Over	1
7	<u>101646103</u>	Ring Set, Piston 0.50 mm Over	1
8	<u>1016469</u>	Weight, Counterbalance	1
9	<u>1016470</u>	Shaft, Guide, Counterbalance	1
10	<u>101647501</u>	Rod Assembly (includes item 11)	1
11	<u>1016509</u>	Bolt	2
12	<u>101647502</u>	Rod Assembly, Connecting 0.50 mm Under (includes item 13)	1
13	<u>1016509</u>	Bolt	2
14	<u>1016541</u>	Stud, 6x14	4
15	<u>1016547</u>	Nut, M6 Flange	4
16	<u>101655001</u>	Shim, Crankshaft T=1.13	1
17	<u>101655002</u>	Shim, Crankshaft T=1.18	1
18	<u>101655003</u>	Shim, Crankshaft T=1.23	1
19	<u>101655004</u>	Shim, Crankshaft T=1.28	1
20	<u>101655005</u>	Shim, Crankshaft T=1.33	1
21	<u>101655006</u>	Shim, Crankshaft T=1.38	1
22	<u>101655007</u>	Shim, Crankshaft T=1.43	1
23	<u>101655008</u>	Shim, Crankshaft T=1.48	1
24	<u>101655009</u>	Shim, Crankshaft T=1.53	1
25	<u>1016558</u>	Ring, Snap	2
26	<u>1016559</u>	Spacer	1
27	<u>1016562</u>	Key	1
28	<u>1016568</u>	Seal, Oil	1
29	<u>1016571</u>	O-Ring	1
30	<u>101915501</u>	Crankcase Complete, FE290 (cw)	1
31	<u>101922301</u>	Crankshaft, FE290 Left-Hand Thread (includes items 32 through 35)	1
32	<u>1016516</u>	Rod (includes item 33)	2
33	<u>1016580</u>	Bearing, Plane	1
34	<u>1016532</u>	Gear, Spur	1
35	<u>1016533</u>	Gear, Helical	1

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FE290 ENGINE MOUNTING

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1010577</u>	Bolt, Hex-Head, 5/16-18 X 1.50	4
2	<u>1012571</u>	Washer, 5/16 Extra Thick Flat	4
3	<u>1013924</u>	Nut, 5/16-24 Hex Head Cone	6
4	<u>101827101</u>	Plate, Engine Mounting	1
5	<u>101832101</u>	Spacer, Powdered Metal	2
6	<u>101832701</u>	Stiffener (Flywheel Side)	1
7	<u>101833201</u>	Stud, M8-1.25 X 60mm Two-Ended	2
8	<u>101834601</u>	Snubber Bracket	1
9	<u>101884801</u>	Screw, 5/16-24 X 0.875 Grade-8	6
10	<u>101963401</u>	Locknut, 5/16-18 Hex Flange	4
11	<u>102065901</u>	Locknut, 3/8-16 Flanged Dimple	4
12	<u>102540301</u>	Inner Frame Snubber	1
13	<u>334</u>	Washer, 3/8 Type A Flat	4
14	<u>705</u>	Screw, Cap-hex Hd 3/8-16x1.25	4
15	<u>96704416</u>	Nut Flg, M8 X 1.25 Serrated	2

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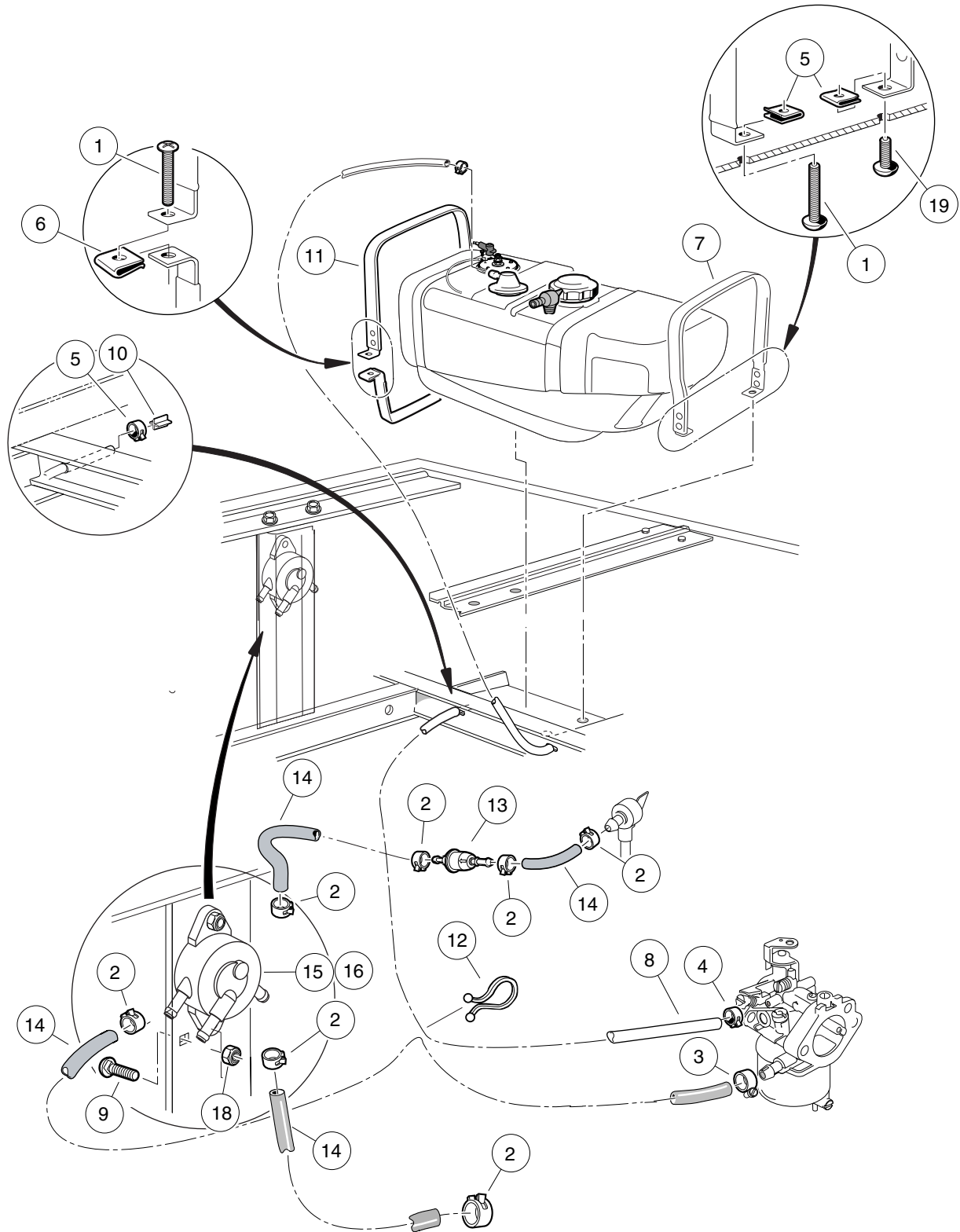
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FUEL, INTAKE, AND GOVERNOR SYSTEMS

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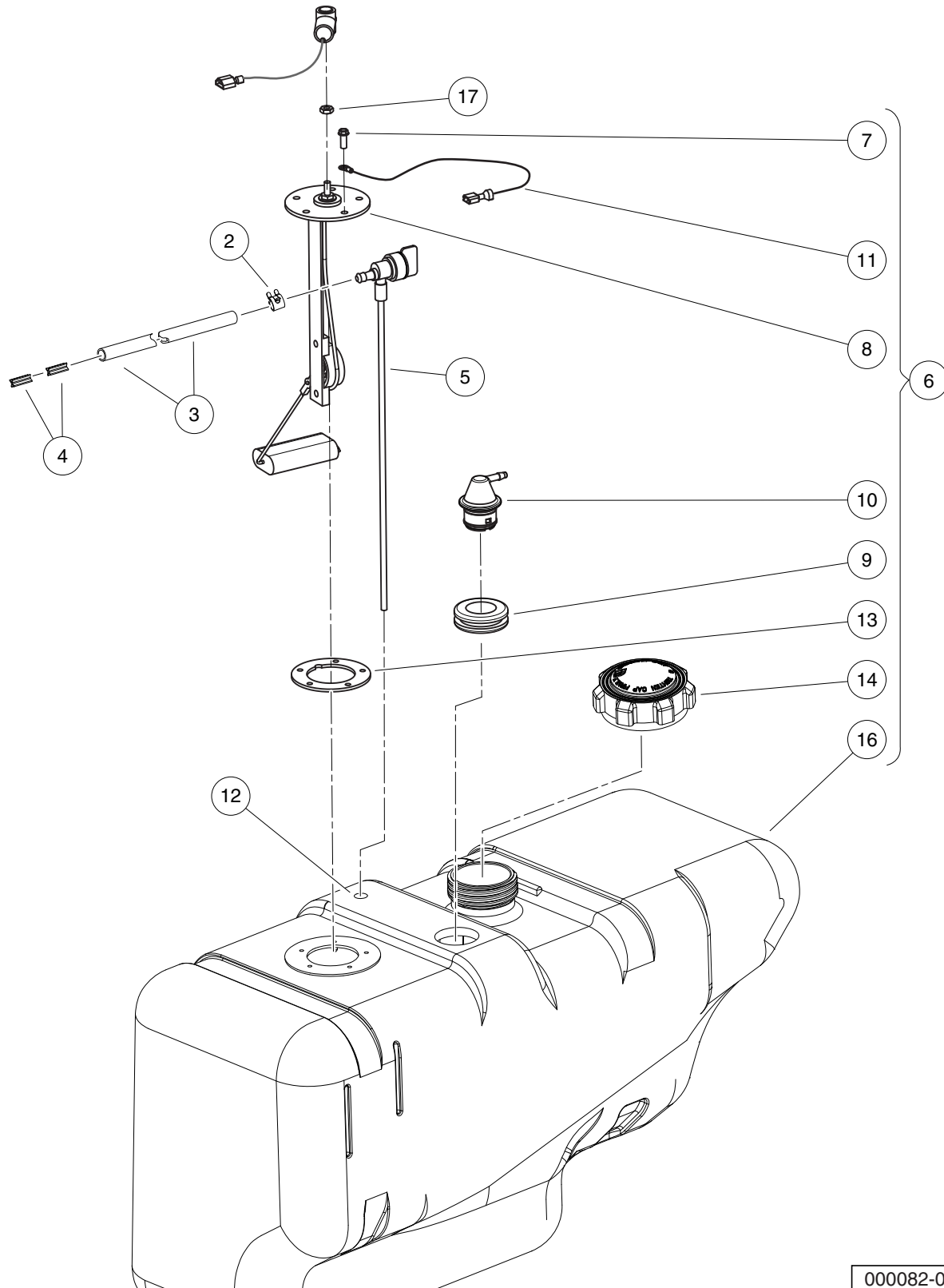
000210-004

FUEL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1011988</u>	Screw, 1/4-20 X 2.00 Phillips Truss-Head	2
2	<u>1012649</u>	Clamp, 0.460 Red Hose	7
3	<u>1013687</u>	Clamp, 3/8" Hose (screw type)	1
4	<u>1013746</u>	Clamp, 0.301 ID Hose	2
5	<u>1014116</u>	Nut, 1/4-20 Speed	3
6	<u>1014524</u>	Kit, Impulse Pump Rebuild	1
7	<u>1014928</u>	Fuel Strap Assembly Rear	1
8	<u>1015137</u>	Fuel Line (available by the foot)	1
9	<u>1017203</u>	Carriage Bolt	2
10	<u>101824401</u>	Vent Barb	1
11	<u>101955301</u>	Fuel Strap Assy, Front	1
12	<u>101987701</u>	Clamp, Plastic Tie	1
13	<u>102003201</u>	Filter, Fuel, 30 Micron	1
14	<u>102865101</u>	Fuel Line	1
15	<u>103781101</u>	Kit, Fuel Pump Retrofit (includes items 16 and 17)	1
16	<u>103010101</u>	Pump, Fuel, Impulse, Fh	1
17	103781201	Instr, Fuel Pump Retrofit	1
18	<u>8233</u>	Locknut, 1/4-20 Nylon Insert	2
19	<u>8248</u>	Screw, 1/4-20 X 0.75 Truss-Head Machine	1
Note: Total fuel line length: 47 inches (119.4 cm)			

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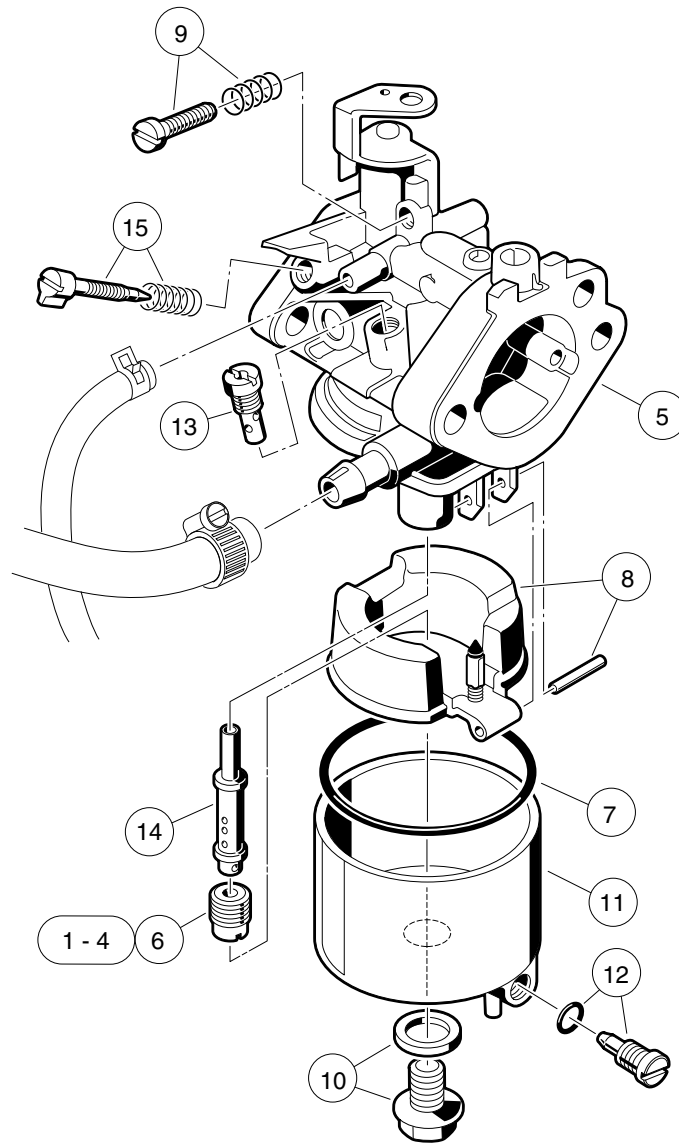
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000082-003

FUEL TANK WITH FUEL LEVEL SENDING UNIT

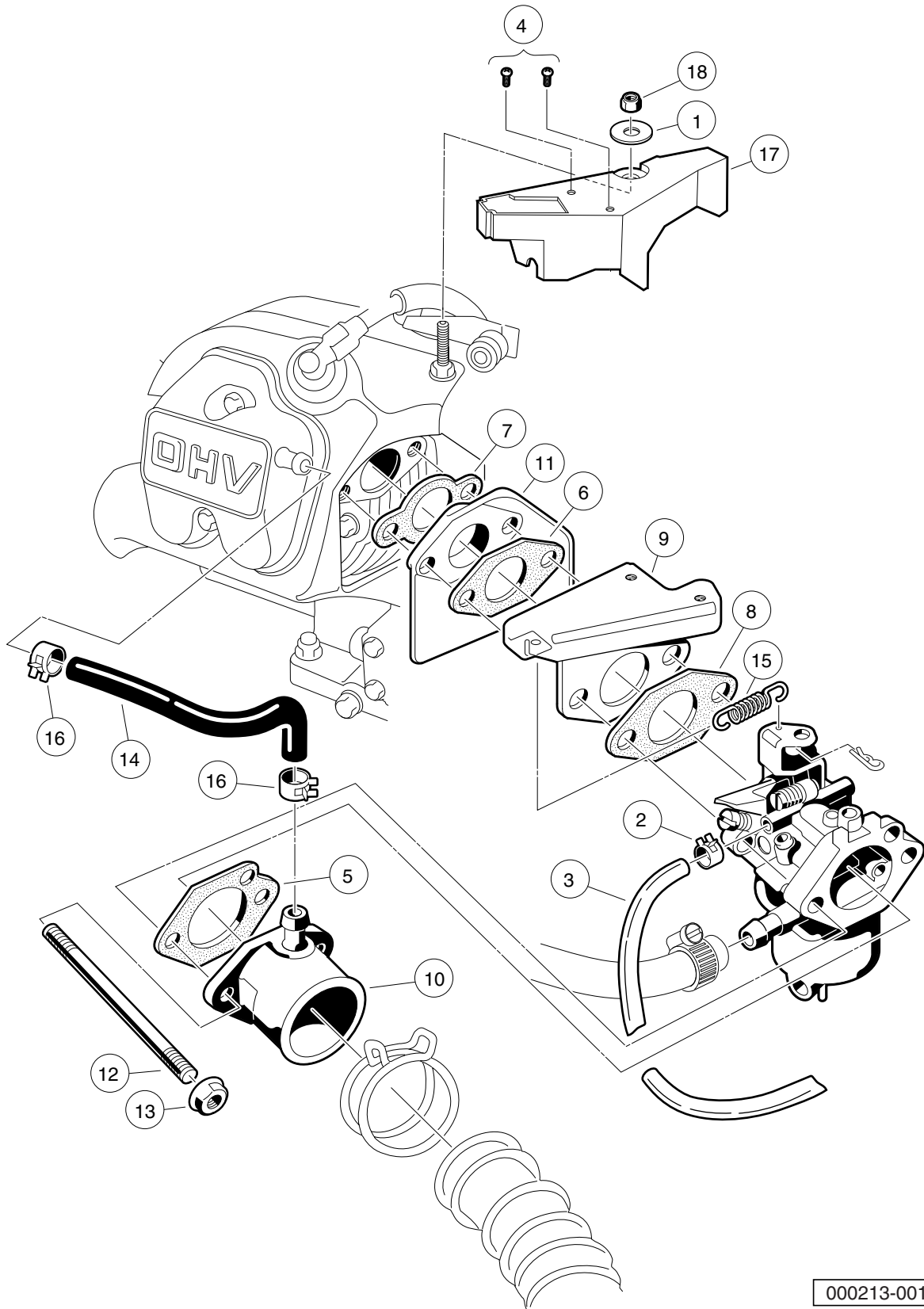
ITEM	PART NO.	DESCRIPTION	QTY	8
		1 2 3 4		G
1	1016004	Tank Kit w/Sending Unit (includes items 2 through 6)	1	
2	<u>1013746</u>	Clamp, 0.301 ID Hose	2	
3	<u>1015137</u>	Fuel Line (available by the foot)	1	
4	<u>101824401</u>	Vent Barb	2	
5	101896901	Fuel Pickup w/Shut-Off Valve	1	
6	<u>103651901</u>	Asm, Tank, Ds Utl W/su† Nano (includes items 7 through 16)	1	
7	<u>1013461</u>	Screw, #10-16 Hex-Head Hi-Lo	5	
8	<u>1013462</u>	Sending Unit, Fuel Level *	1	
9	<u>1015139</u>	Insulation Grommet	1	
10	<u>1015143</u>	Vent, Fuel Tank	1	
11	1015921	Wire Assembly #16 Black	1	
12	<u>102406701</u>	Bushing, Line, Return	1	
13	<u>102522001</u>	Gasket, Rubber	1	
14	<u>103372101</u>	Cap, Fuel Tank, Gas, Ratchet	1	
15	<u>103372302</u>	Fuel Pickup w/Shut-Off Valve, 288mm	1	
16	103776901	Tank, Fuel, Top, W/su Nano	1	
17	<u>8797</u>	Nut, #10-32 Brass Hex	1	
* Note: Must replace fuel sending unit gasket when servicing this component.				



000211-001

CARBURETOR ASSEMBLY – FE290

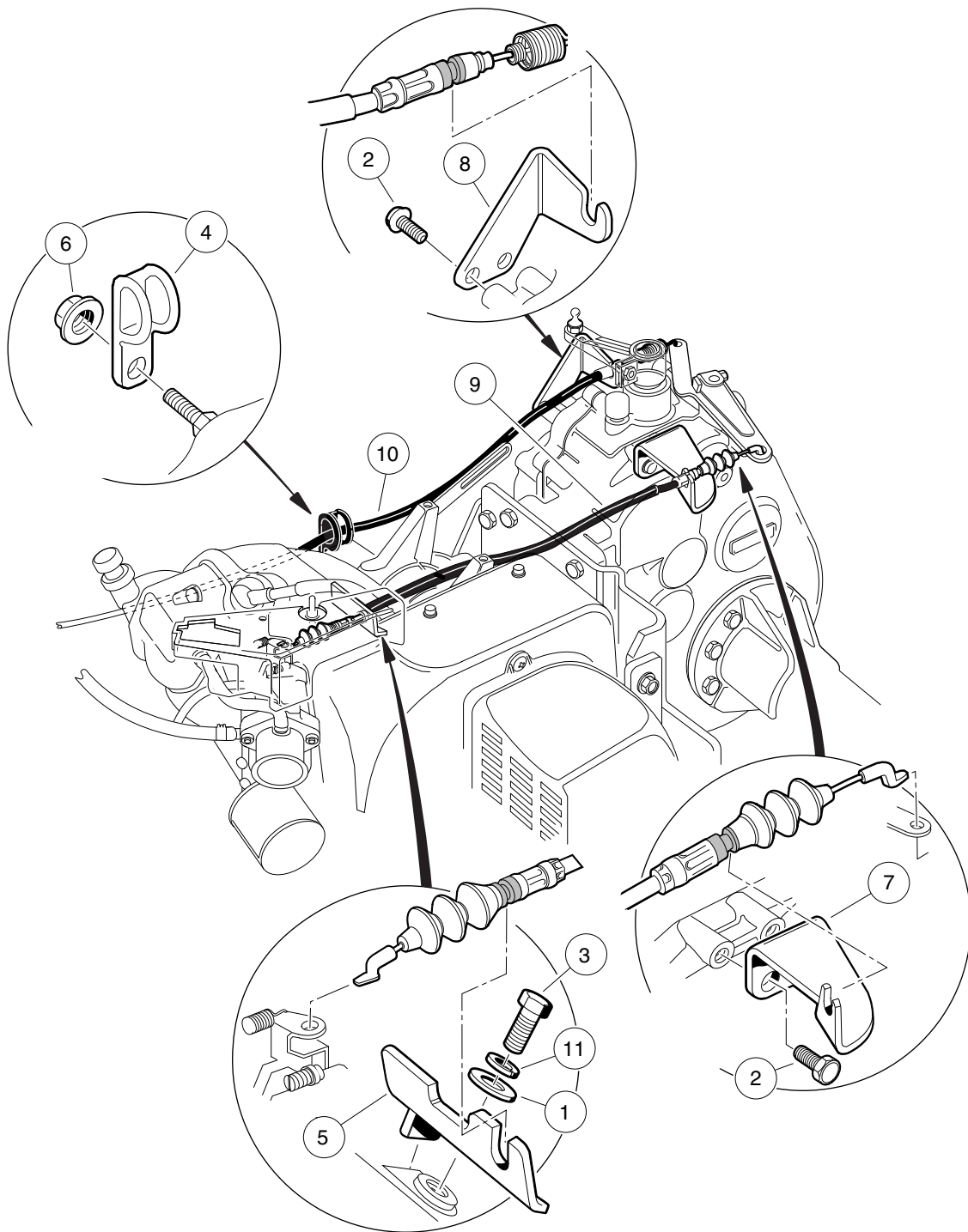
ITEM	PART NO.	DESCRIPTION	QTY	8
		1 2 3 4		G
1	<u>101642572</u>	Jet, Altitude, # 72	1	
2	<u>101642575</u>	Jet, Altitude, # 75	1	
3	<u>101642578</u>	Jet, Altitude, # 78	1	
4	<u>101642580</u>	Jet, Altitude, # 80	1	
5	<u>101905601</u>	Carburetor Assembly, FE290D (includes items 6 through 15)	1	
6	<u>101642582</u>	Jet, Altitude, # 82	1	
7	<u>1016437</u>	Gasket, Carburetor Bowl OHV	1	
8	<u>1016486</u>	Float Assembly	1	
9	<u>1016501</u>	Screw Assembly	1	
10	<u>1016585</u>	Bolt	1	
11	<u>1017461</u>	Chamber Assembly, Float (includes item 12)	1	
12	<u>1016499</u>	Screw Assembly	1	
13	<u>101973101</u>	Jet, #40 Pilot	1	
14	<u>101973201</u>	Nozzle, Main	1	
15	N/A	Assembly, Pilot Air Screw	1	
Note: <u>101642582</u> for 0 - 3,000 feet; <u>101642580</u> for 3,000 - 5,000 feet; <u>101642578</u> for 5,000 - 8,000 feet; <u>101642575</u> for 8,000 - 10,000 feet; <u>101642572</u> for 10,000 feet and higher.				



000213-001

CARBURETOR INSTALLATION – FE290

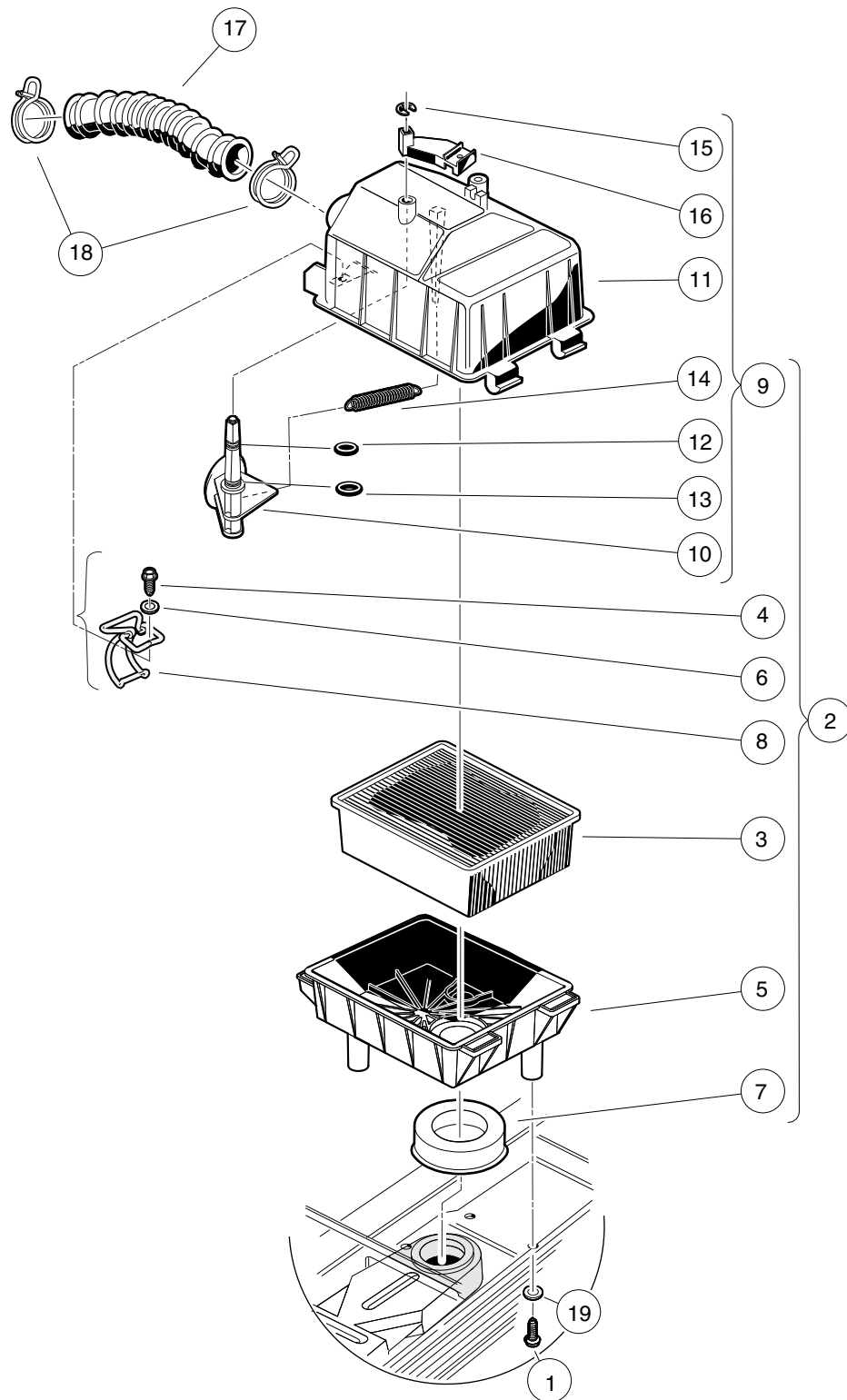
ITEM	PART NO.	DESCRIPTION	QTY	8
		1 2 3 4		G
1	<u>1011697</u>	Washer, 5/16 Flat	1	
2	<u>1013746</u>	Clamp, 0.301 ID Hose	1	
3	<u>1015137</u>	Fuel Line (available by the foot)	1	
4	<u>1016103</u>	Screw, Pan Hd Tx, Taptite 6-32	2	
5	<u>1016438</u>	Gasket, Carb To Intake Manifold	1	
6	<u>1016439</u>	Gasket, Insulator	1	
7	<u>1016440</u>	Gasket, Engine to Insulator	1	
8	<u>1016441</u>	Gasket, Sprg Brkt To Carb OHV	1	
9	<u>1016444</u>	Bracket, Throttle Spring Return	1	
10	1016480	Pipe, Intake Manifold	1	
11	101648102	Insulator, Carburetor	1	
12	<u>101649002</u>	Stud, M6-1.00 Two-Ended	2	
13	1016547	Nut, M6 Flange	2	
14	<u>1016572</u>	Tube, Crankcase Vent	1	
15	<u>1016582</u>	Spring, Throttle Return	1	
16	<u>1017466</u>	Clamp	2	
17	101820201	Shield, Governor	1	
18	<u>101887601</u>	Locknut, M6-1.00 Nylon Insert	1	



000215-001

GOVERNOR AND ACCELERATOR CABLES

ITEM	PART NO.	DESCRIPTION	QTY	8
		1 2 3 4		G
1	<u>1011697</u>	Washer, 5/16 Flat	1	
2	<u>1012285</u>	Screw, 1/4 X 0.625 Hex-Head	4	
3	<u>1012830</u>	Screw, M8-125 X 22 Hex-Head	1	
4	<u>1013700</u>	Clamp	2	
5	<u>101584502</u>	Bracket, Governor Cable Snap-In	1	
6	<u>1016546</u>	Nut	2	
7	<u>101832202</u>	Bracket, Rear Governor Cable Snap-In	1	
8	<u>101832302</u>	Bracket, Rear Accelerator Cable Snap-In	1	
9	<u>102336001</u>	Cable, Governor, Snap-In	1	
10	<u>102336101</u>	Cable, Accelerator, Snap-In	1	
11	<u>7174</u>	Lockwasher, 5/16 Split	1	



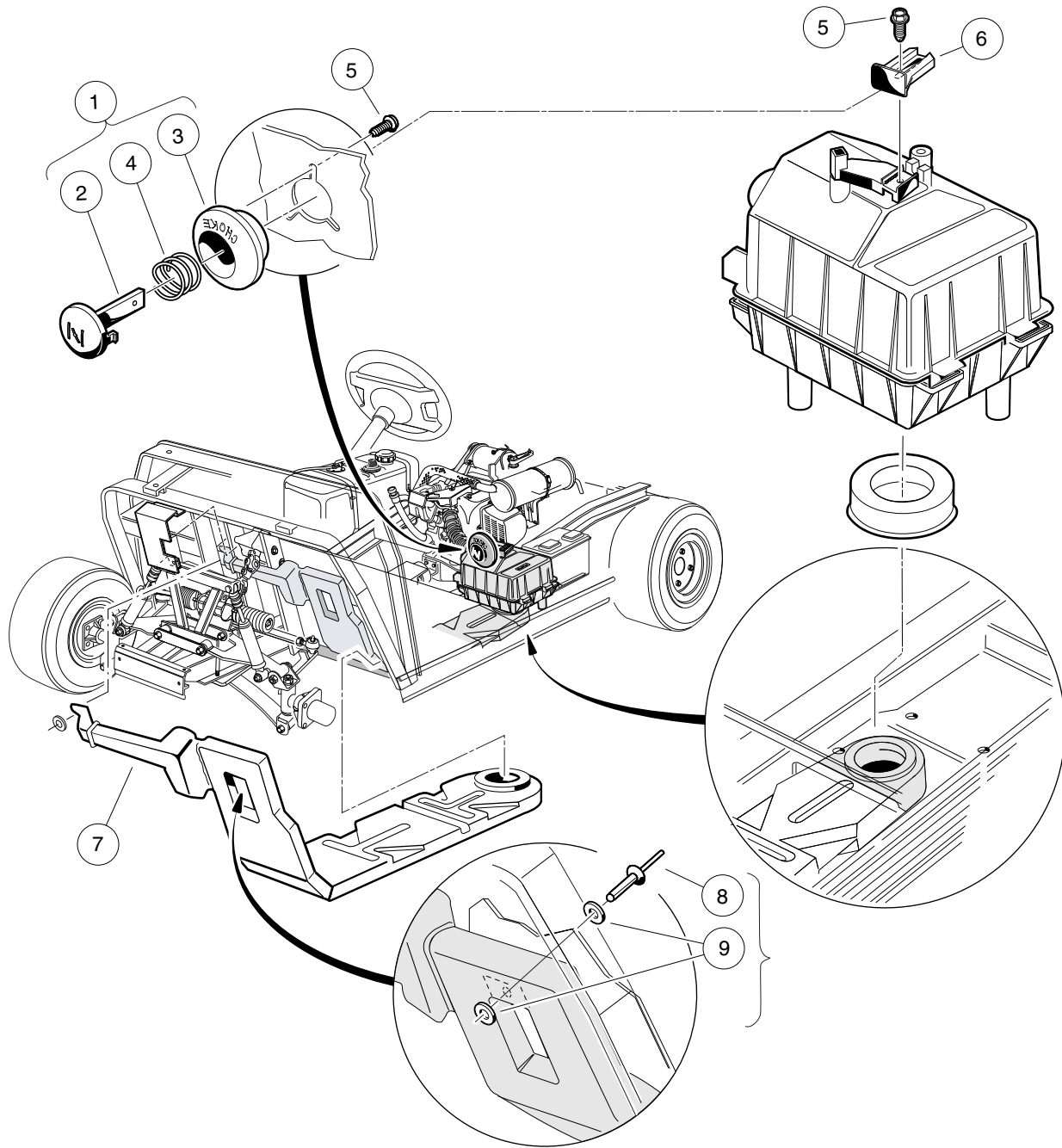
000332-001

AIR BOX AND INTAKE HOSE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1015752</u>	Screw, #12-16 X 0.625 Hi-Lo	3
2	<u>101821501</u>	Assembly, Air Box (includes items 3 through 9)	1
3	<u>1015426</u>	Filter, Air	1
4	<u>101804301</u>	Screw, #8 X 0.500, Hex-Head Hi-Lo	2
5	<u>101811901</u>	Bottom, Air Box	1
6	<u>101881701</u>	Washer, #8 Stainless-Steel Flat	2
7	<u>101921501</u>	Seal, Intake	1
8	<u>101925701</u>	Latch, Wireform	2
9	<u>101972801</u>	Top Assy, Air Box (includes items 10 through 16)	1
10	N/A	Valve, Choke	1
11	101811801	Top, Air Box	1
12	N/A	O-Ring, 5/16	1
13	N/A	O-Ring, 3/8	1
14	<u>101812301</u>	Spring, Extension Return	1
15	<u>101813001</u>	Retaining Ring 0.25, Shaft	1
16	<u>101917601</u>	Lever, Choke	1
17	<u>101837101</u>	Hose, Air Intake	1
18	<u>101971301</u>	Clamp, 1.58" ID Hose	2
19	<u>332</u>	Washer, 1/4 Type A Narrow Flat	3

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000338-004

INTAKE SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY	8
		1 2 3 4		G
1	<u>101805701</u>	Button Assembly, Choke (includes items 2 through 4)	1	
2	<u>101811401</u>	Lever, Choke	1	
3	<u>101811501</u>	Guide, Choke Lever	1	
4	<u>101856201</u>	Compression Spring	1	
5	<u>101850301</u>	Screw, #12-16 X 0.50 Washer-Head Hi-Lo	4	
6	<u>101917701</u>	Choke Positioner	1	
7	<u>103520301</u>	Duct, Air Intake, Ds	1	
8	<u>1606</u>	Rivet, 3/16 X .500 Alum Pop	2	
9	<u>183</u>	Washer, #10 Type A Flat	4	

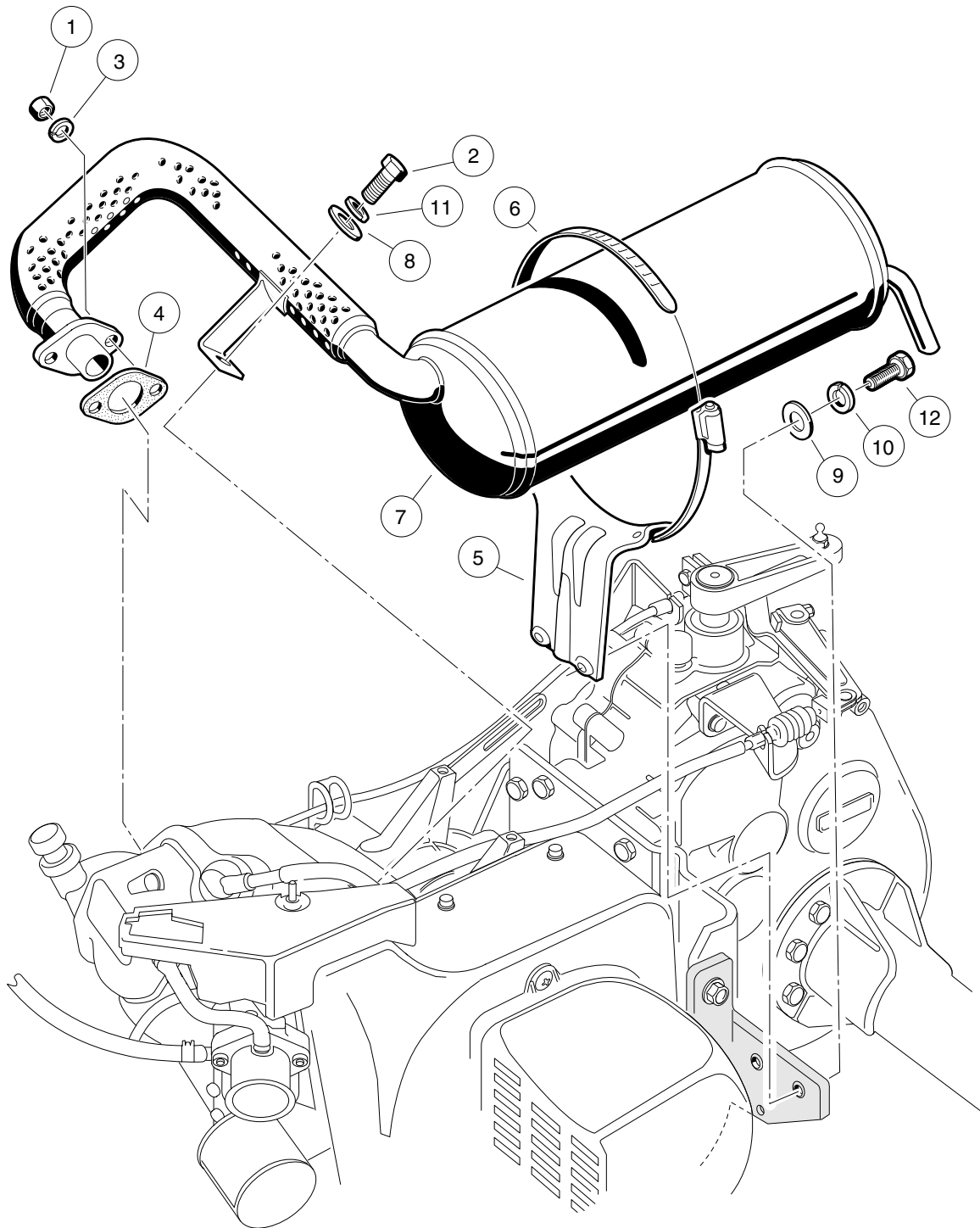
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EXHAUST SYSTEM

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000208-001

EXHAUST SYSTEM – FE290 ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1012528</u>	Nut, M8-1.25 Hex	2
2	<u>1012830</u>	Screw, M8-125 X 22 Hex-Head	1
3	<u>1013734</u>	Lockwasher, 8mm Split	2
4	<u>1015330</u>	Gasket, Exhaust	1
5	<u>1015814</u>	Bracket, Muffler Mounting	1
6	<u>1017689</u>	Clamp, 5" Muffler Hose	1
7	<u>101859301</u>	Exhaust System, FE290	1
8	<u>1241</u>	Washer, 5/16 Type A Flat	1
9	<u>332</u>	Washer, 1/4 Type A Narrow Flat	2
10	<u>451</u>	Lockwasher, 1/4 Split	2
11	<u>7174</u>	Lockwasher, 5/16 Split	1
12	<u>7847</u>	Screw, 1/4-20 X 0.75 Hex-Head Cap	2

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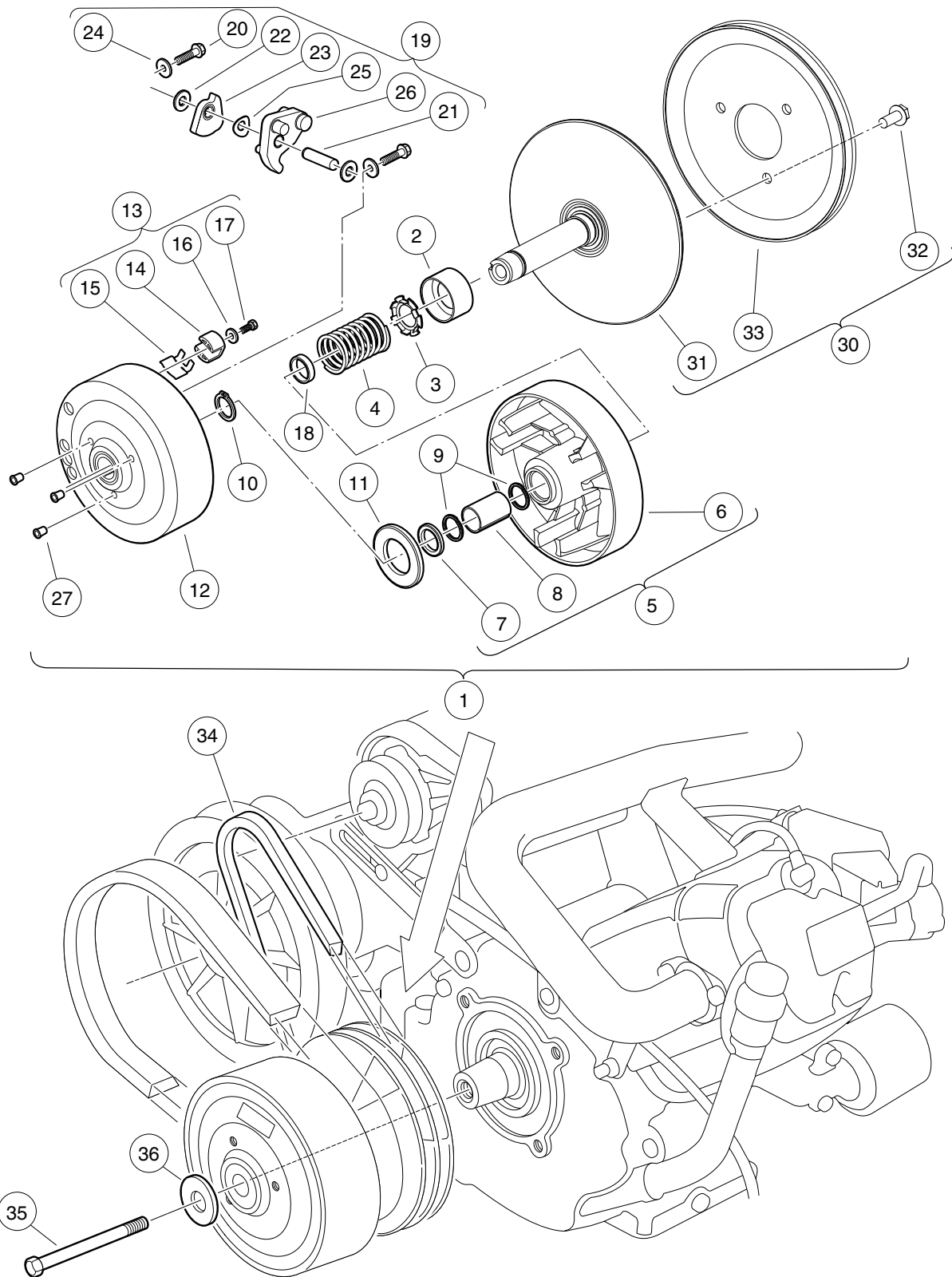
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TORQUE CONVERTER

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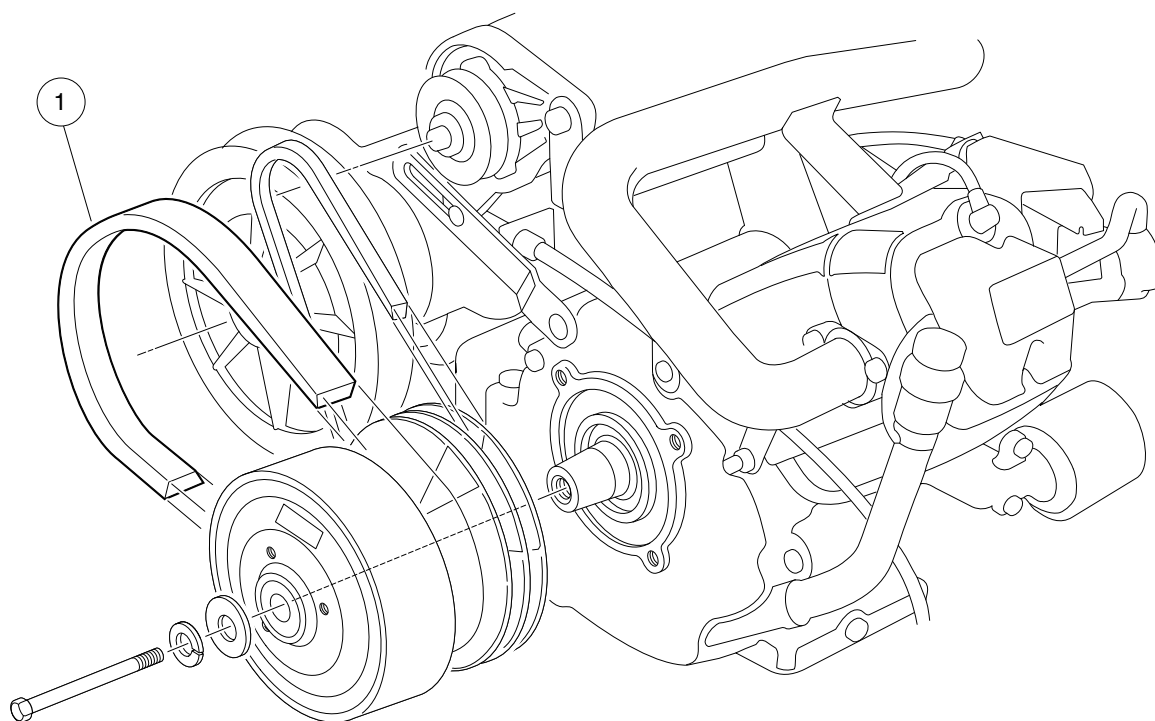
000217-001

DRIVE CLUTCH

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>101833902</u>	Clutch, Drive (includes items 2 through 28)	1
2	<u>1014049</u>	Bearing, Idler	1
3	<u>1014050</u>	Retainer, Spring	1
4	<u>1014051</u>	Spring, Drive Clutch	1
5	<u>1014052</u>	Movable-Face Assembly (includes items 6 through 8)	1
6	N/A	Drive Clutch Movable Face	1
7	<u>1014055</u>	Retainer	1
8	N/A	Bushing, Split, Drive Clutch	1
9	<u>1014056</u>	Ring, Spiral Backup	2
10	<u>1014057</u>	Ring, 0.810" Internal Retaining	1
11	<u>1014058</u>	Thrust Washer	1
12	<u>1014059</u>	Drive Hub Assy, Drive Clutch	1
13	<u>1014453</u>	Kit, Drive Clutch Button (includes items 14 through 17)	1
14	<u>1014062</u>	Driver, Drive Clutch	3
15	<u>1014287</u>	Spring, Drive Button	3
16	<u>183</u>	Washer, #10 Type A Flat	3
17	<u>8450</u>	Screw, #10-24 X 0.50 Hex-Head	3
18	<u>1016289</u>	Spacer, Fixed Face Shaft	1
19	<u>1016801</u>	Kit, Drive Clutch Weight (includes items 20 through 26)	1
20	<u>1014063</u>	Screw, 1/4-20 X 1.00 Hex Head	6
21	N/A	Pin, 0.3752 X 1.50 Dowel	3
22	<u>1014065</u>	Washer, 0.38" ID Delrin Flat	6
23	N/A	Clutch Weight, Secondary	3
24	N/A	Washer	6
25	<u>1016201</u>	Washer, Wave	3
26	N/A	Weight, Primary	3
27	<u>101925601</u>	Plug, Drive Clutch	3
28	<u>101929802</u>	Kit, Fxd Face Dr Asm Fe290/350 (includes items 29 and 30)	1
29	N/A	Desiccant Bag (Not Shown)	1
30	<u>101929801</u>	Assembly, Fixed-Face Drive (includes items 31 through 33)	1
31	N/A	Fixed Face Assembly, Drive Clutch	1
32	<u>1014288</u>	Screw, 5/16-18 X 0.75 Thread-Forming	3
33	N/A	Pulley, Clutch	1
34	<u>101916701</u>	V-Belt	1
35	<u>103345701</u>	Screw 3/8-24x5.5 Hex Loc Ptch	1
36	<u>808</u>	Washer, 3/8 Type B Flat	1
		Note: Item 29 not shown.	

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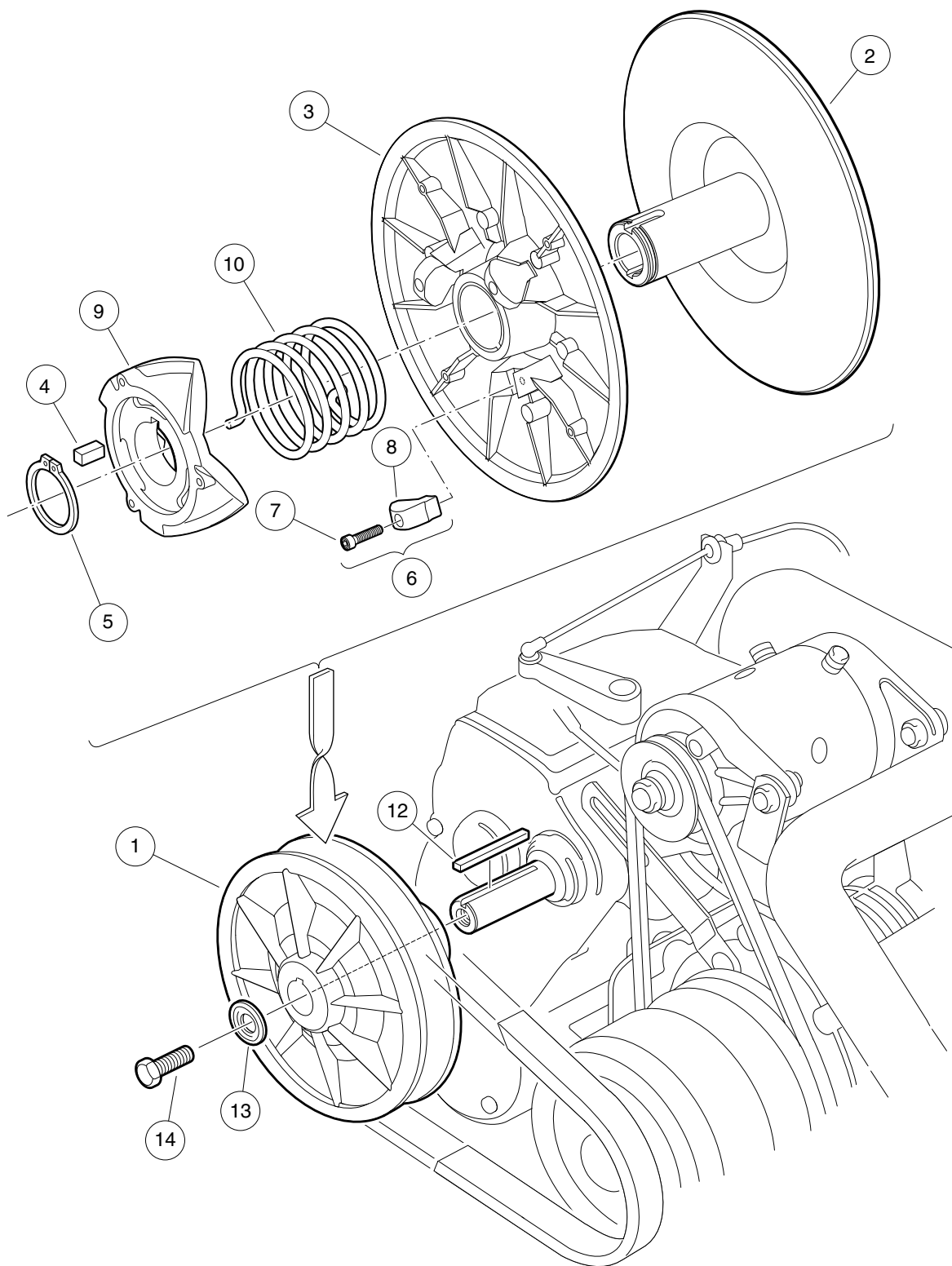
000218-001

DRIVE BELT – FE290

ITEM	PART NO.	DESCRIPTION	QTY
1	<u>1016203</u>	1 2 3 4 Belt, Drive	1

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000219-001

DRIVEN CLUTCH

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>101834001</u>	Assembly, Driven Clutch (includes items 2 through 10)	1
2	<u>1014070</u>	Fixed Face Assy, Driven Clutch	1
3	<u>1014072</u>	Movable-Face Assembly with Bushing	1
4	<u>1014078</u>	Key, Driven Clutch	1
5	<u>1014080</u>	Ring, Retaining	1
6	<u>1014454</u>	Kit, Driven Clutch Button (includes items 7 and 8)	1
7	<u>1012836</u>	Screw, #8-32 X 3/4 Socket-Head Cap	3
8	<u>1014076</u>	Button, Drive	3
9	<u>1017686</u>	Cam, Driven Clutch	1
10	<u>101836201</u>	Spring, Driven Clutch, Reversed	1
11	<u>AM10419</u>	Kit, Clutch Repair (includes items 12 through 14)	1
12	<u>101833401</u>	Key, 3/16 Sq X 1.50"	1
13	<u>102155801</u>	Washer, Driven Clutch	1
14	<u>102242101</u>	Screw, 5/16-18 X 3/4 Hex-Head with Patch	1

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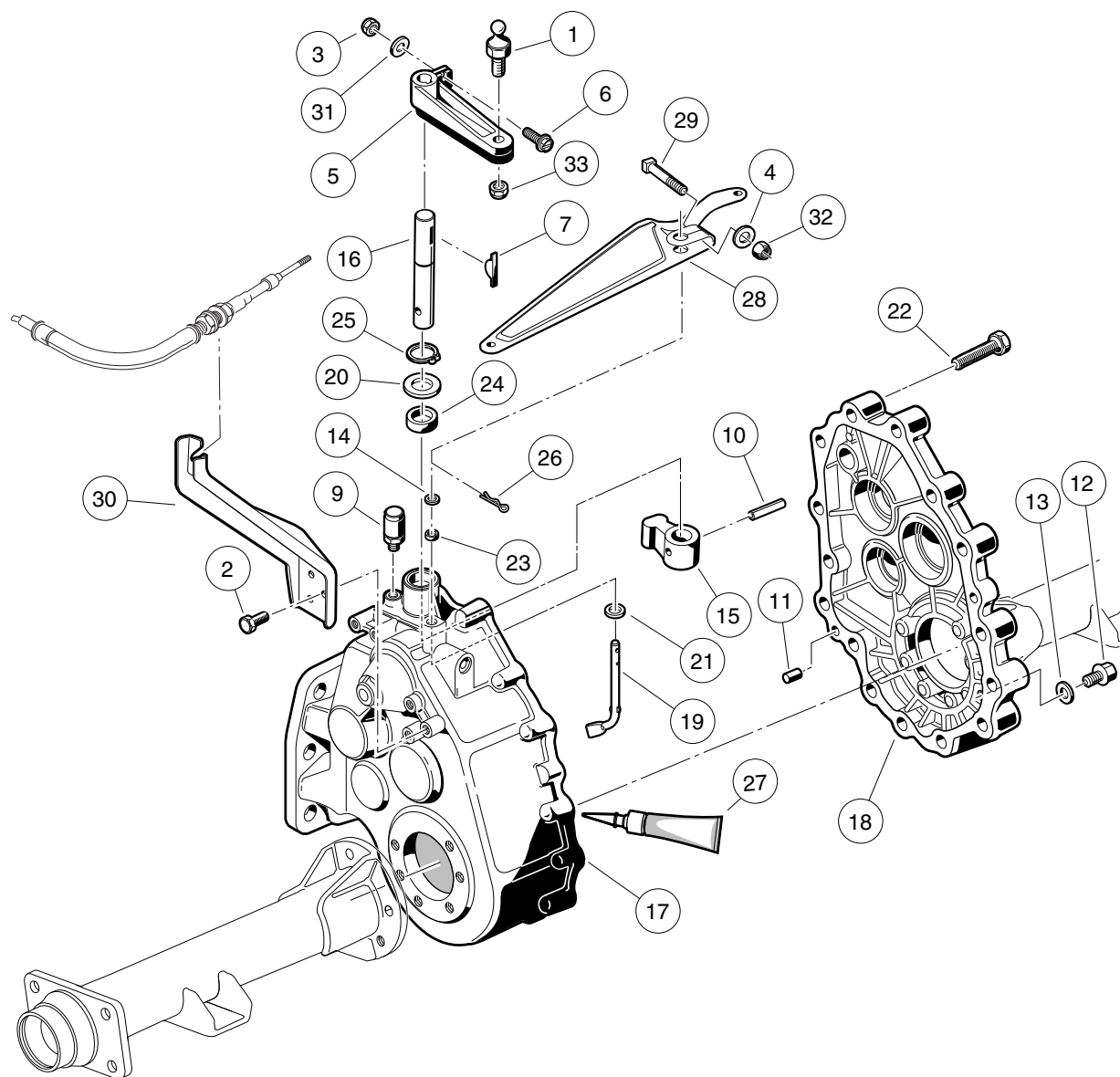
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UNITIZED TRANSAXLE AND FNR SHIFTER

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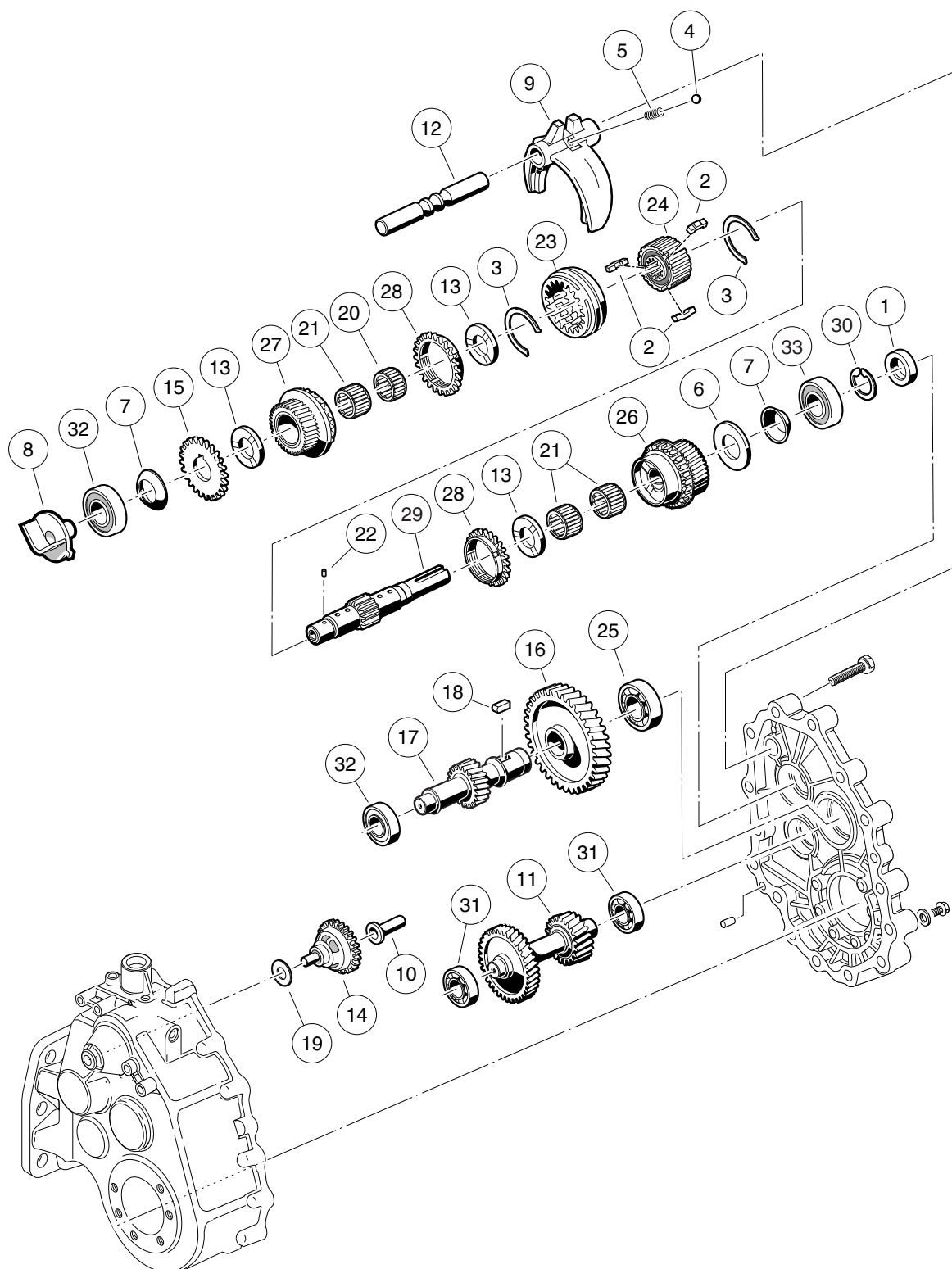


000220-001

TRANSAXLE – GASOLINE VEHICLES, GEAR CASES AND BRACKETS

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1010954</u>	Stud, 1/4-28 X 0.560 Ball	1
2	<u>1012285</u>	Screw, 1/4 X 0.625 Hex-Head	3
3	<u>1013061</u>	Locknut, #10-32 Nylon Insert	1
4	<u>1014007</u>	Washer, 1/4 Flat	1
5	<u>1016341</u>	Lever, Transmission Shift	1
6	<u>1017082</u>	Screw, #10-32 X 0.75, Hex-Head Machine	1
7	<u>1017231</u>	Key, Woodruff	1
8	<u>101833601</u>	Transaxle, 11.77 Ratio (includes items 9 through 27)	1
9	<u>1012711</u>	Breather	1
10	<u>1012752</u>	Roll Pin	1
11	<u>1012896</u>	Pin, Dowel	2
12	<u>1013760</u>	Fill Plug	2
13	<u>1016432</u>	Gasket, Drain Plug	1
14	<u>1016513</u>	Washer, M6 Flat	1
15	<u>101890101</u>	Lever, Change	1
16	<u>101890201</u>	Shaft - Change	1
17	<u>101890501</u>	Gear Case (driver side)	1
18	<u>101890601</u>	Gear Case (passenger side)	1
19	<u>101891301</u>	Arm Pivot	1
20	<u>101892901</u>	Washer	1
21	<u>101893801</u>	Washer	1
22	<u>101926901</u>	Screw, M8-1.25 X 40mm Hex-Head	15
23	<u>101927101</u>	Seal, Oil	1
24	<u>101927201</u>	Seal, Oil	1
25	<u>101927301</u>	Snap Ring	1
26	<u>101928601</u>	Pin, Cotter	1
27	<u>101928701</u>	Liquid Gasket (Transaxle case)	1
28	<u>101834801</u>	Arm, Governor	1
29	<u>101886101</u>	Screw, 1/4-20 X 1.00 Square-Head	1
30	<u>102045901</u>	Bracket, Shifter	1
31	<u>183</u>	Washer, #10 Type A Flat	1
32	<u>8233</u>	Locknut, 1/4-20 Nylon Insert	1
33	<u>8717</u>	Locknut, 1/4-28 Nylon Insert	1

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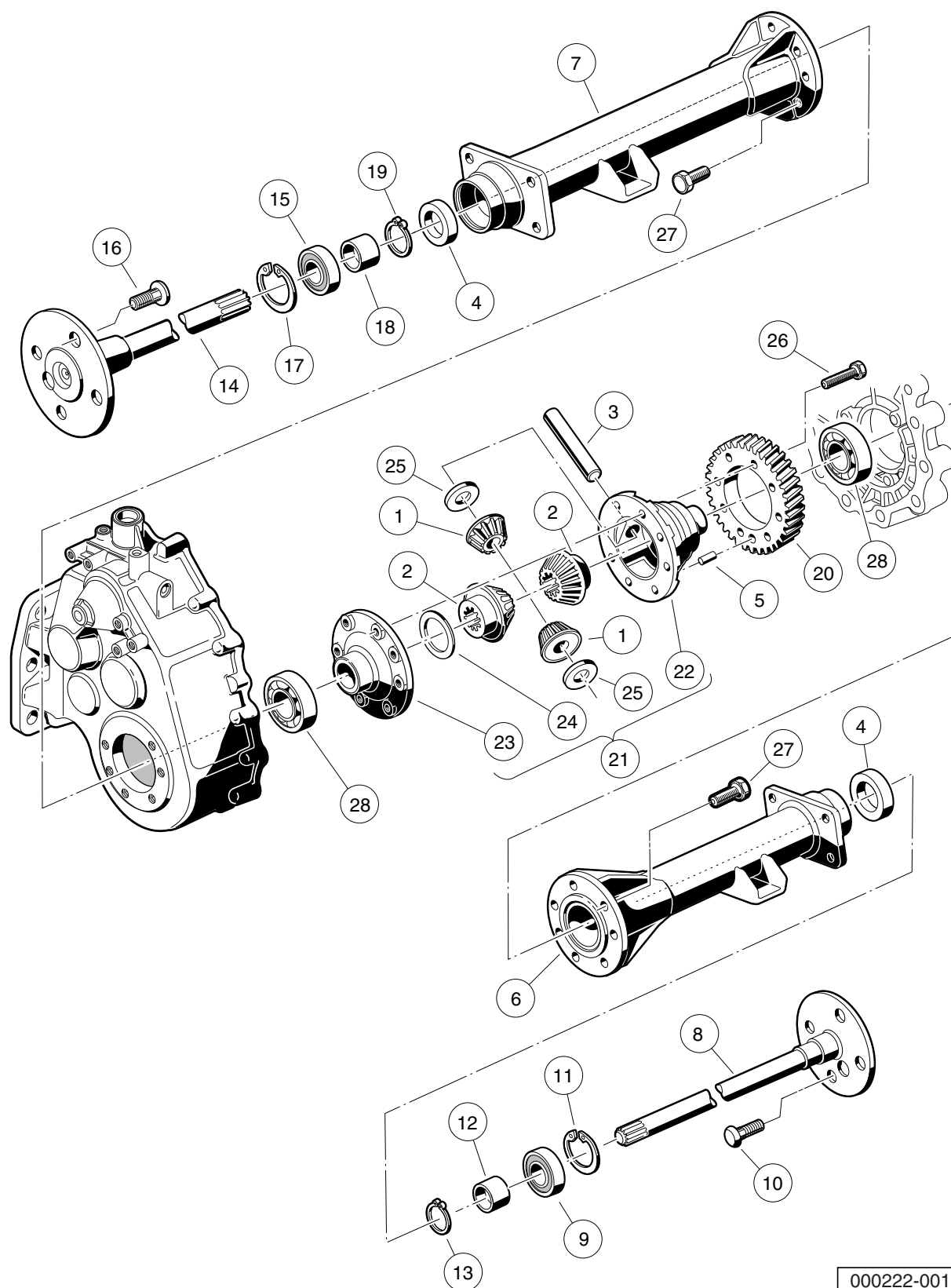


000221-001

TRANSAXLE – GASOLINE VEHICLES, TRANSMISSION AND GEAR REDUCTION

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1012714</u>	Oil Seal	1
2	<u>1012740</u>	Synchro Insert	3
3	<u>1012741</u>	Synchro Spring	2
4	<u>1012747</u>	Shifter Ball	1
5	<u>1012748</u>	Shifter Spring	1
6	<u>1016337</u>	Washer, Thrust	1
7	<u>1016338</u>	Washer, Spring	2
8	<u>101889401</u>	Guide	1
9	<u>101890001</u>	Fork - Shift	1
10	<u>101891601</u>	Sleeve, Governor	1
11	<u>101891901</u>	Gear, Cluster	1
12	<u>101892001</u>	Rod, Shift	1
13	<u>101892201</u>	Plate, Thrust	3
14	<u>101892301</u>	Governor Assembly	1
15	<u>101892401</u>	Gear, Spur	1
16	<u>101892501</u>	Gear, Helical (61 Tooth)	1
17	<u>101892601</u>	Gear, Helical (17 Tooth)	1
18	<u>101893201</u>	Key Sunk	1
19	<u>101893901</u>	Washer	1
20	<u>101927501</u>	Needle Bearing	1
21	<u>101927601</u>	Needle Bearing	3
22	<u>101927701</u>	Pin, .116" Dia X 0.264 Dowel	1
23	<u>101927901</u>	Sleeve, Synchro	1
24	<u>101928001</u>	Hub, Synchro Clutch	1
25	<u>101928101</u>	Bearing, Ball	1
26	<u>101980801</u>	Gear Assembly, 16-Degree Synchro (25 Tooth)	1
27	<u>101980901</u>	Gear Assembly, 16-Degree Rear Synchro (28 Tooth)	1
28	<u>101981001</u>	Ring, 16-Degree Synchronizer	2
29	<u>102453001</u>	Shaft, Trans, with Circlip	1
30	<u>102453101</u>	Circlip	1
31	<u>7335</u>	Bearing	2
32	<u>AM10080</u>	Bearing, Ball, Sealed	2
33	<u>AM10081</u>	Bearing, Ball, Sealed	1
Note: Items listed on this page are components of the unitized transaxle.			

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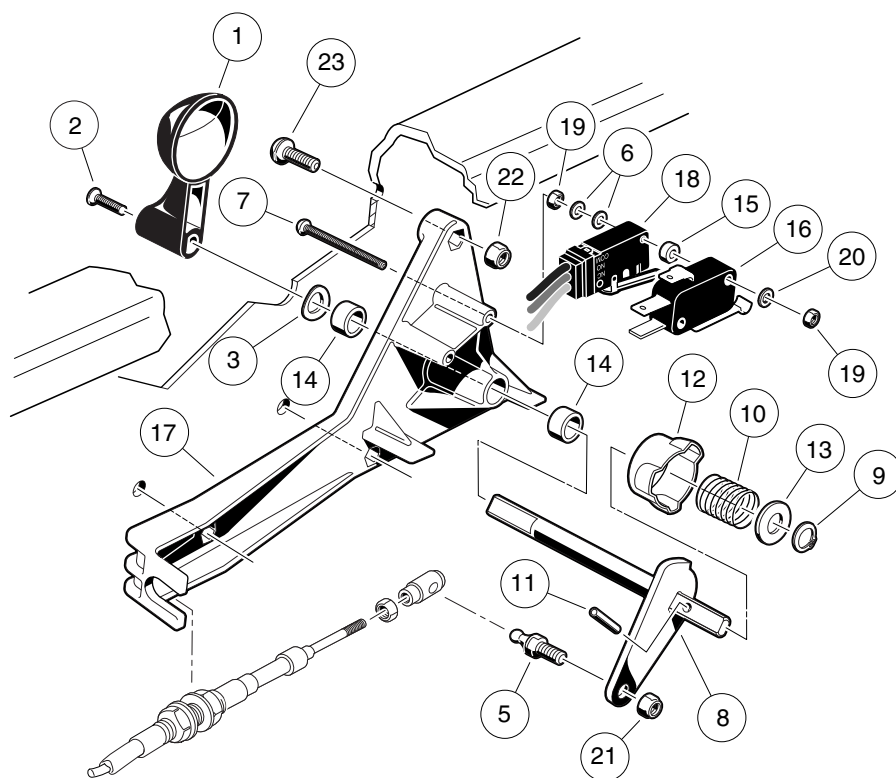


000222-001

TRANSAXLE – GASOLINE VEHICLES, DIFFERENTIAL AND AXLES

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1013770</u>	Differential Idler Gear	2
2	<u>1013771</u>	Gear, Differential	2
3	<u>1013772</u>	Pin, Differential	1
4	<u>1013794</u>	Axle Shaft Oil Seal	2
5	<u>1014193</u>	Dowel Pin	1
6	<u>101890901</u>	Pipe	1
7	<u>101891001</u>	Pipe	1
8	<u>101891401</u>	Axle Assembly, Passenger Side (includes items 9 through 13)	1
9	<u>1011291</u>	Outer Axle, Tube Bearing	1
10	<u>1013787</u>	Lug Stud	4
11	<u>1013792</u>	Circlip Type C	1
12	<u>1014207</u>	Bushing	1
13	<u>1016672</u>	Retaining Ring	1
14	<u>101891501</u>	Axle Assembly, Driver-Side (includes items 15 through 19)	1
15	<u>1011291</u>	Outer Axle, Tube Bearing	1
16	<u>1013787</u>	Lug Stud	4
17	<u>1013792</u>	Circlip Type C	1
18	<u>1014207</u>	Bushing	1
19	<u>1016672</u>	Retaining Ring	1
20	<u>101892701</u>	Gear, Helical	1
21	<u>101910501</u>	Kit, Differential Gear Case (includes items 22 through 25)	1
22	<u>1013768</u>	Differential Gear Case, Left-Hand	1
23	<u>1013769</u>	Differential Gear Case, Right-Hand	1
24	<u>1013773</u>	Plate, Thrust (Differential Gear)	1
25	<u>1013774</u>	Plate, Thrust (Idler Gear)	2
26	<u>101928301</u>	Screw, M8-1.25 X 35mm Hex Head	8
27	<u>102031901</u>	Bolt, M10 X 1.5 X 30mm	14
28	<u>7330</u>	Inner Axle Tube Bearing	2

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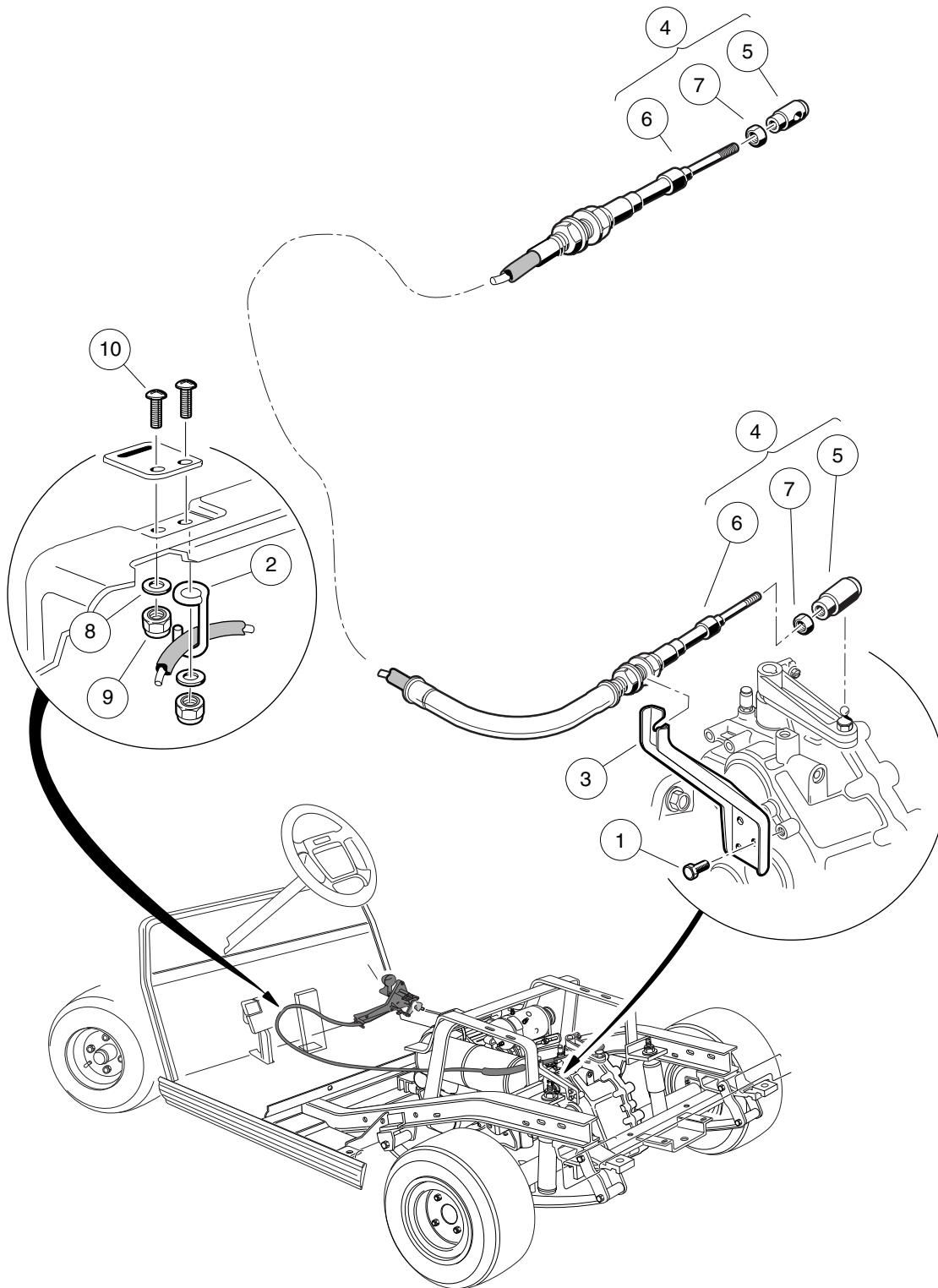


000236-001

FORWARD/REVERSE SHIFTER ASSEMBLY – GASOLINE VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1012987</u>	Handle, FNR	1
2	<u>1015064</u>	Screw, #8-32 X 0.63 Machine	1
3	<u>1016201</u>	Washer, Wave	1
4	<u>1016947</u>	Assembly, FNR Shifter (includes items 5 through 21)	1
5	<u>1010954</u>	Stud, 1/4-28 X 0.560 Ball	1
6	<u>1012431</u>	Washer, #4 Flat	4
7	<u>1012594</u>	Screw, #4-40 Machine	2
8	<u>1013587</u>	FNR Bell Crank Weldment	1
9	<u>1013589</u>	Ring, 0.338" Internal Retaining	1
10	<u>1013590</u>	Spring, FNR Cam	1
11	<u>1013591</u>	Pin, 1/8 X 1/2 Roll	1
12	<u>1014089</u>	Neutral Lockout Cam Kit (includes item 13)	1
13	<u>1014065</u>	Washer, 0.38" ID Delrin Flat	1
14	<u>1014145</u>	Bushing, Secondary Weight, Split	2
15	<u>1014727</u>	Washer, #4 Nylon Flat	2
16	<u>1014807</u>	Switch, Limit	1
17	<u>1016342</u>	FNR Shifter Base	1
18	<u>101979101</u>	Assembly, Switch, Limit	1
19	<u>8057</u>	Nut, #4-40 Hex Machine	4
20	<u>8058</u>	Lockwasher, #4 Split	2
21	<u>8717</u>	Locknut, 1/4-28 Nylon Insert	1
22	<u>8233</u>	Locknut, 1/4-20 Nylon Insert	4
23	<u>8248</u>	Screw, 1/4-20 X 0.75 Truss-Head Machine	4

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000248-001

FORWARD/REVERSE SHIFTER CABLE – GASOLINE VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1012285</u>	Screw, 1/4 X 0.625 Hex-Head	3
2	<u>101855801</u>	Cable Retainer	1
3	<u>101922601</u>	Bracket, Shifter	1
4	<u>101951501</u>	FNR Shifter Cable (includes items 5 through 7)	1
5	<u>1012333</u>	Joint, #10-32 Ball	2
6	<u>103379501</u>	Cable, Transmission Shifter Ds	1
7	<u>7893</u>	Nut, #10-32 Hex	2
8	<u>332</u>	Washer, 1/4 Type A Narrow Flat	4
9	<u>8233</u>	Locknut, 1/4-20 Nylon Insert	4
10	<u>8251</u>	Screw, 1/4-20 X 1.0 Truss-Head Machine	4

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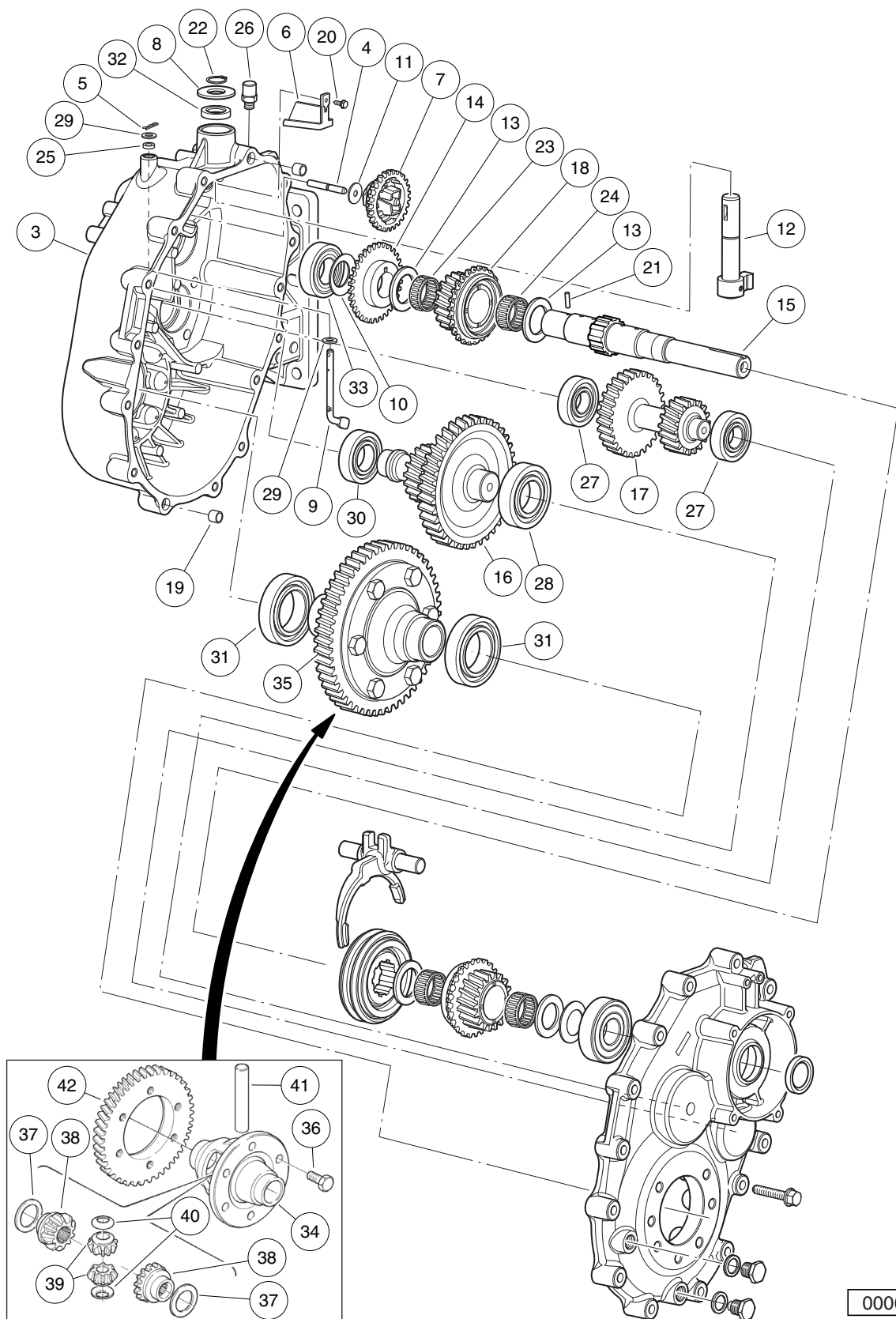
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GRAZIANO TRANSAXLE – GASOLINE VEHICLE

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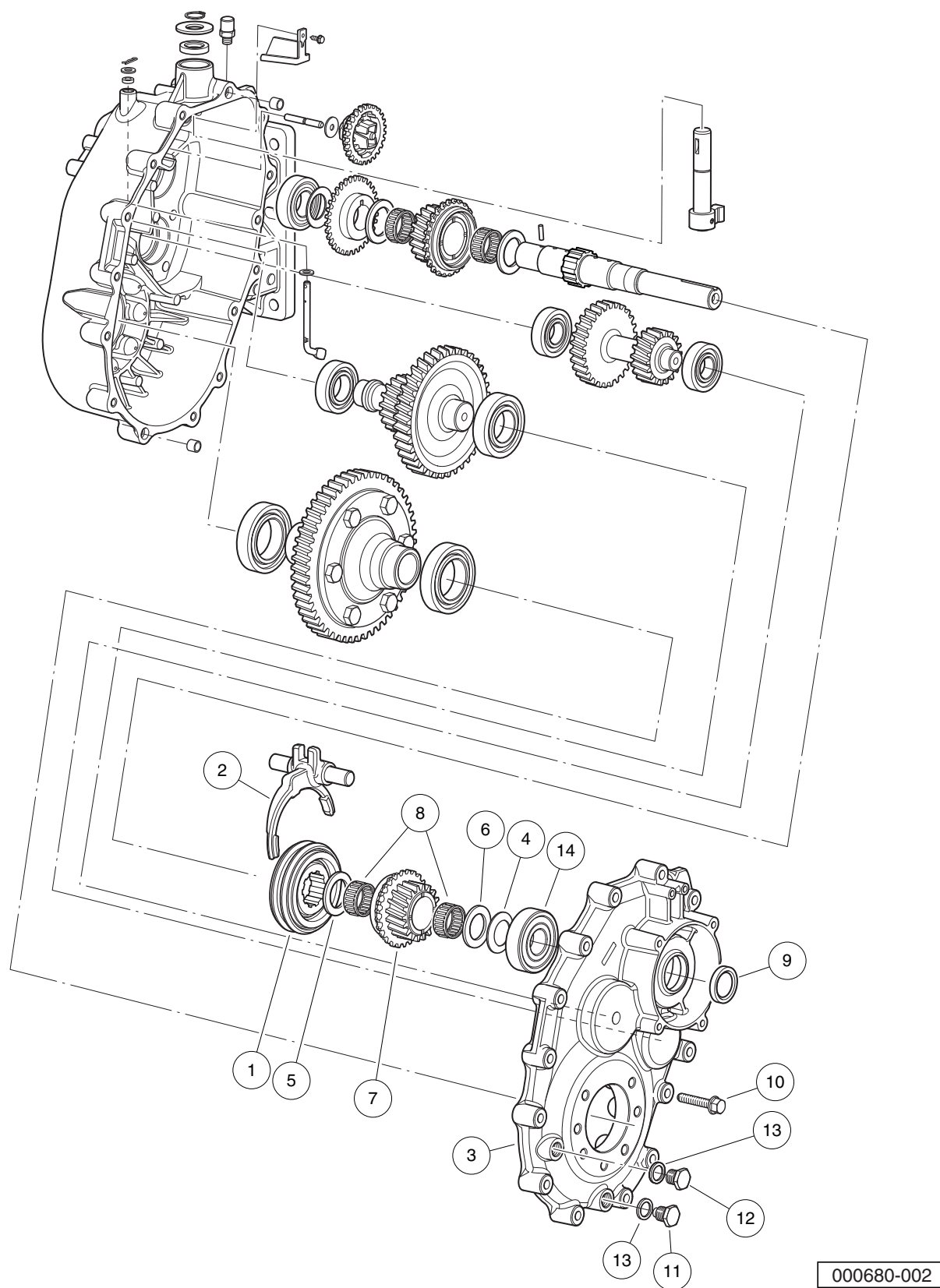
000680-001

GRAZIANO TRANSAXLE – GASOLINE VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>102896801</u>	Transaxle, Unitized, Graziano (includes items 2 through 35)	1
2	<u>102896901</u>	Gear Box, Complete (includes items 3 and 4)	1
3	N/A	Gear Box	1
4	N/A	Pin, Speed Governor	1
5	<u>102897401</u>	Pin, Split	1
6	<u>102897601</u>	Conveyor, Oil	1
7	<u>102897701</u>	Assembly, Speed Governor	1
8	<u>102897801</u>	Washer, Thrust	1
9	<u>102897901</u>	Lever, Speed Governor	1
10	<u>102898001</u>	Washer, Belleville	1
11	<u>102898101</u>	Bearing, Thrust	1
12	<u>102898201</u>	Unit, Drive Selector	1
13	<u>102898301</u>	Bearing, Thrust	2
14	<u>102898501</u>	Gear, Speed Governor	1
15	<u>102898601</u>	Shaft, Main	1
16	<u>102898701</u>	Shaft, Secondary	1
17	<u>102898801</u>	Shaft, Reverse Gear	1
18	<u>102899001</u>	Gear, Complete, 28t	1
19	<u>102899101</u>	Dowel	2
20	<u>102899201</u>	Screw	1
21	<u>102899301</u>	Pin	1
22	<u>102899401</u>	Ring, Snap	1
23	<u>102899501</u>	Cage, Roller	1
24	<u>102899601</u>	Cage, Roller	1
25	<u>102899701</u>	Grommet	1
26	<u>102899801</u>	Bleeder	1
27	<u>102900401</u>	Bearing	2
28	<u>102900501</u>	Bearing	1
29	<u>102900601</u>	Washer	2
30	<u>102900701</u>	Bearing	1
31	<u>102900801</u>	Bearing	2
32	<u>102900901</u>	Grommet	1
33	<u>102901001</u>	Bearing	1
34	<u>102901201</u>	Box, Differential	1
35	<u>102902001</u>	Assembly, Differential (includes items 36 through 42)	1
36	<u>102901301</u>	Screw, M10 X 25	6
37	<u>102901401</u>	Ring, Sleeve	2
38	<u>102901501</u>	Gear, Sun	2
39	<u>102901601</u>	Gear, Planetary	2
40	<u>102901701</u>	Ring, Sleeve	2
41	<u>102901801</u>	Pin	1
42	<u>102901901</u>	Gear	1

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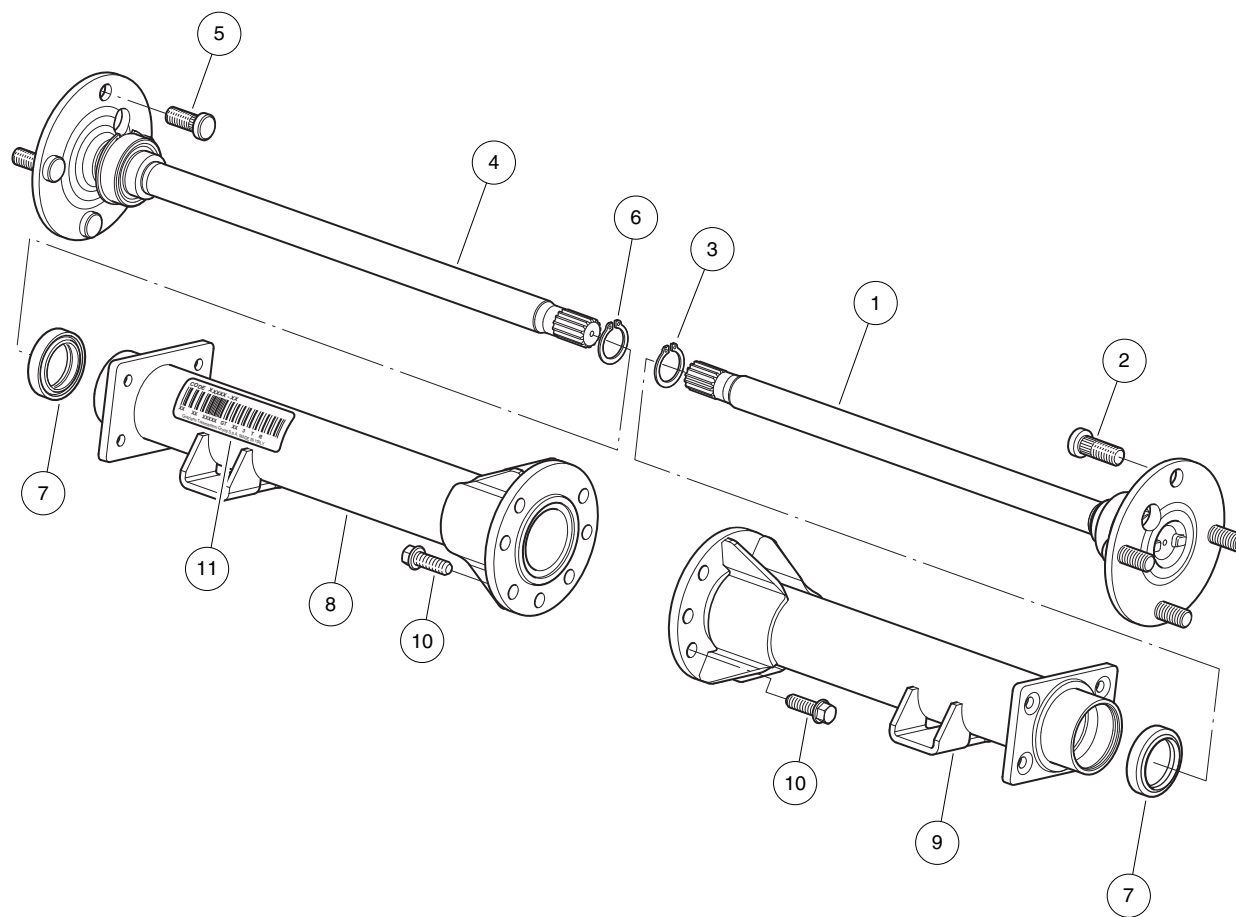
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000680-002

GRAZIANO TRANSAXLE – GASOLINE VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY	12	G
		1 2 3 4			
1	<u>102897201</u>	Synchronizer, Complete	1		
2	<u>102897301</u>	Fork, Complete	1		
3	<u>102897501</u>	Cover, Box	1		
4	<u>102898001</u>	Washer, Belleville	1		
5	<u>102898301</u>	Bearing, Thrust	1		
6	<u>102898401</u>	Washer, Thrust	1		
7	<u>102898901</u>	Gear, Complete, 25t	1		
8	<u>102899601</u>	Cage, Roller	2		
9	<u>102899901</u>	Grommet	1		
10	<u>102900001</u>	Screw	15		
11	<u>102900101</u>	Plug, Magnetic	1		
12	<u>102900201</u>	Plug	1		
13	<u>102900301</u>	Seal	2		
14	<u>102901101</u>	Bearing	1		
Note: Items listed on this page are components of the Graziano transaxle assembly.					



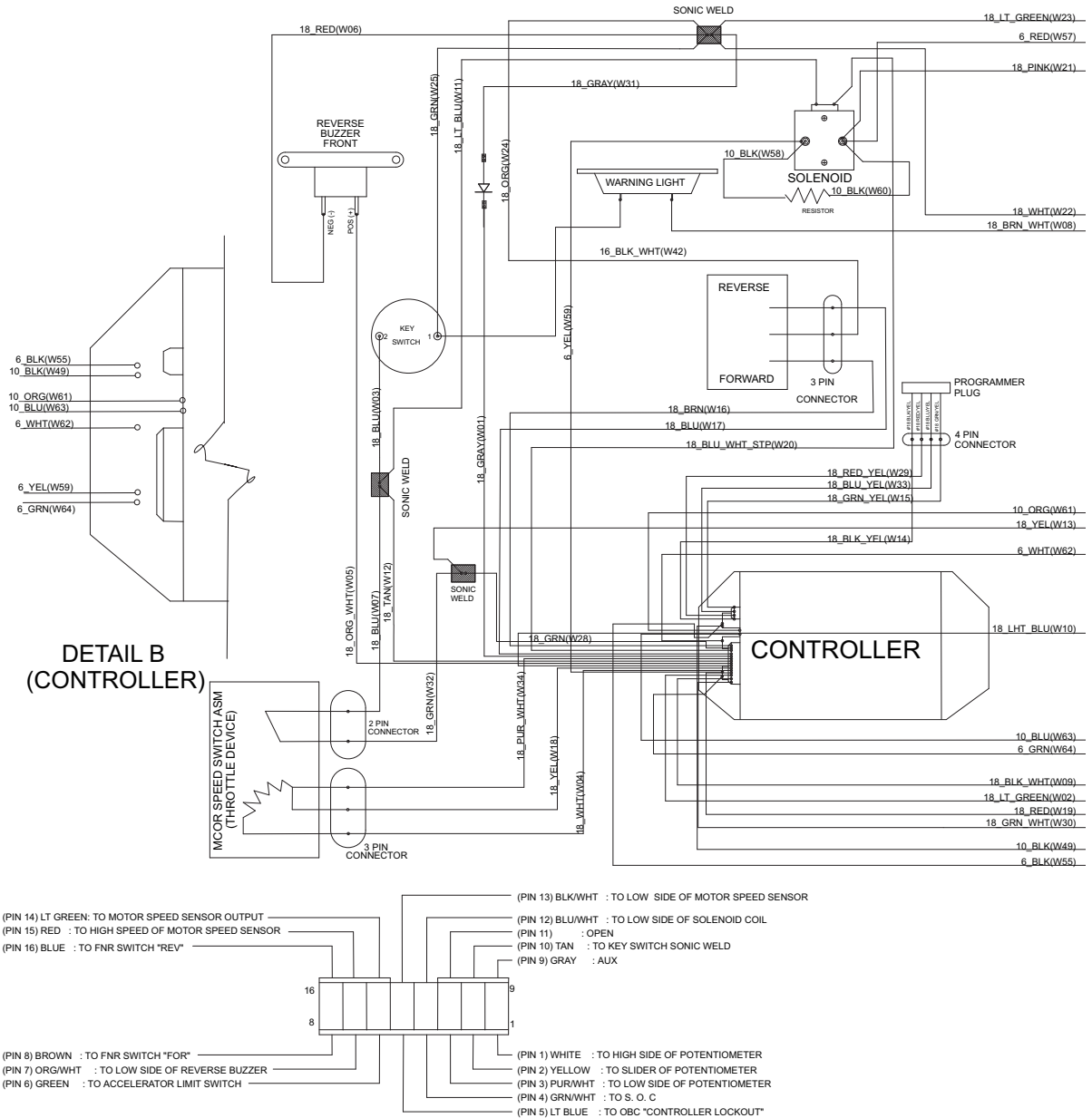
000681-001

GRAZIANO TRANSAXLE – GASOLINE VEHICLES

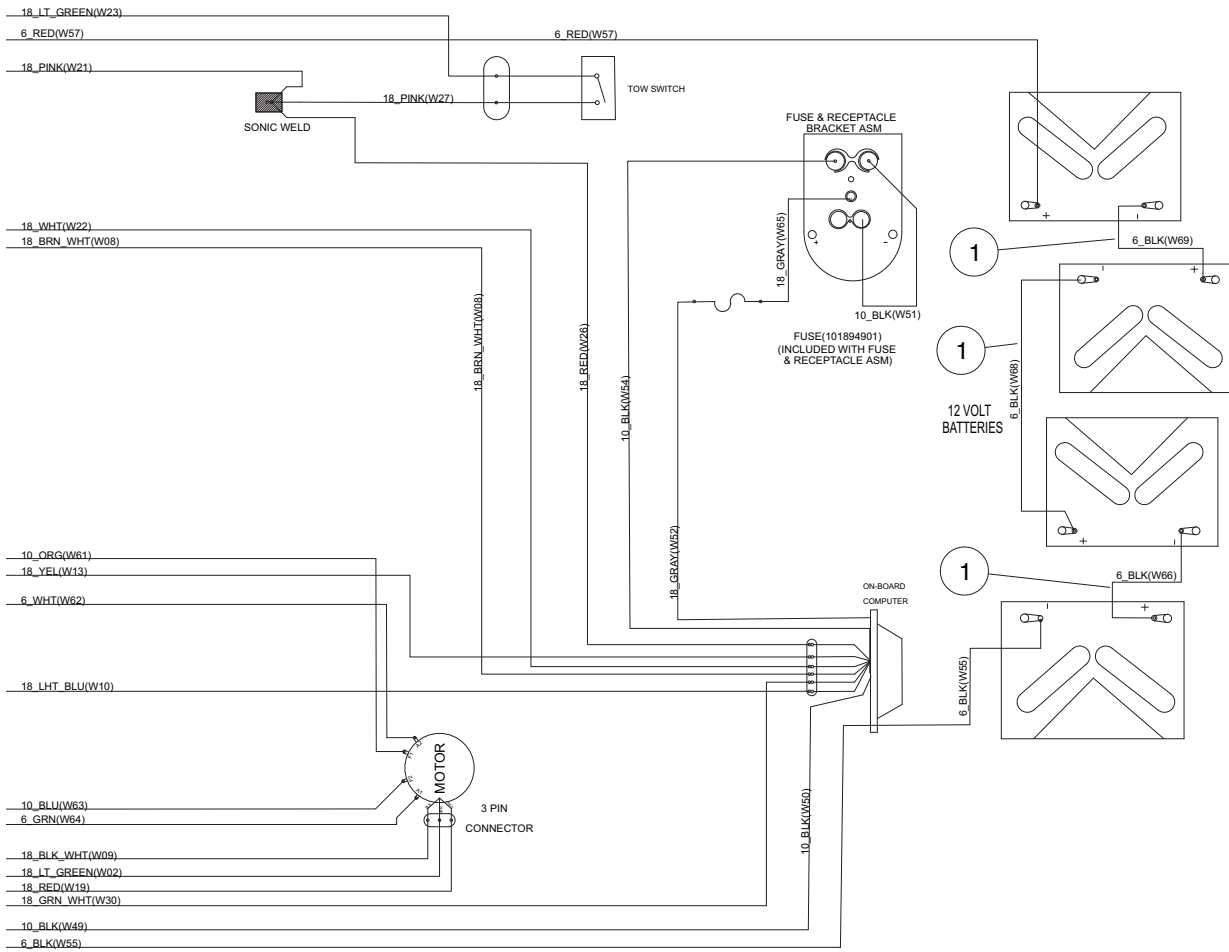
ITEM	PART NO.	DESCRIPTION	QTY	12	G
		1 2 3 4			
1	<u>102902101</u>	Shaft, Short, Complete (includes items 2 and 3)	1		
2	<u>102902301</u>	Bolt, Stud	4		
3	<u>102902401</u>	Snap Ring	1		
4	<u>102902201</u>	Shaft, Long, Complete (includes items 5 and 6)	1		
5	<u>102902301</u>	Bolt, Stud	4		
6	<u>102902401</u>	Snap Ring	1		
7	<u>102902501</u>	Seal, Lip	2		
8	<u>102902601</u>	Assembly, Tube Extension, Lh	1		
9	<u>102902701</u>	Assembly, Tube Extension, Rh	1		
10	<u>102902801</u>	Screw, M10 X 30	14		
11	N/A	Tag, Serial	1		
Note: Items listed on this page are components of the Graziano transaxle assembly.					

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000412-002



000412-002

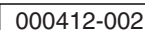
See previous two pages for illustration.

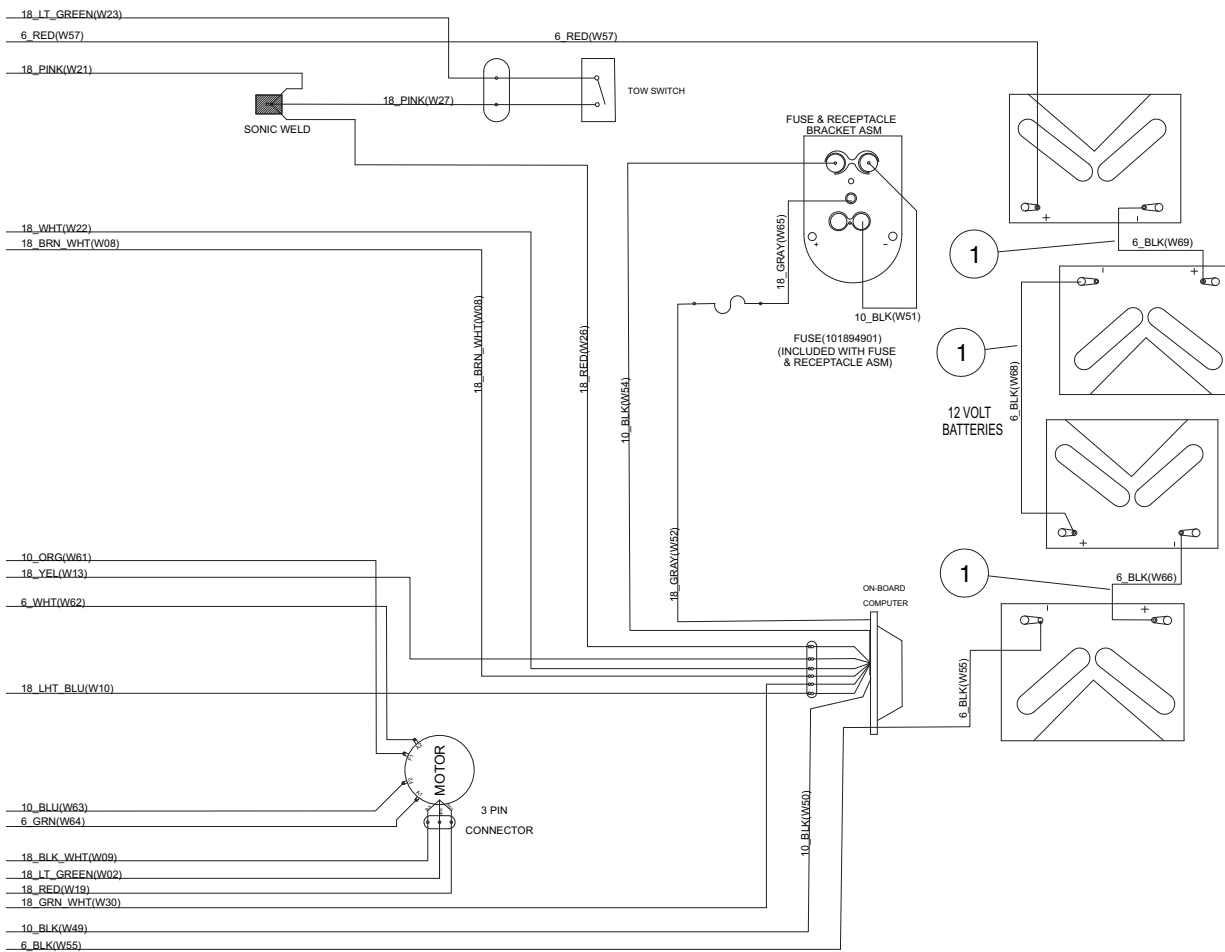
WIRING

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>101795701</u>	Asm, Wire, #6blk 13in	3
2	<u>102913301</u>	Wire Harness, Electric, DS, Four 12-Volt Batteries	1
3	<u>103250701</u>	Wire Harness Ds Iq Data	1

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000412-002

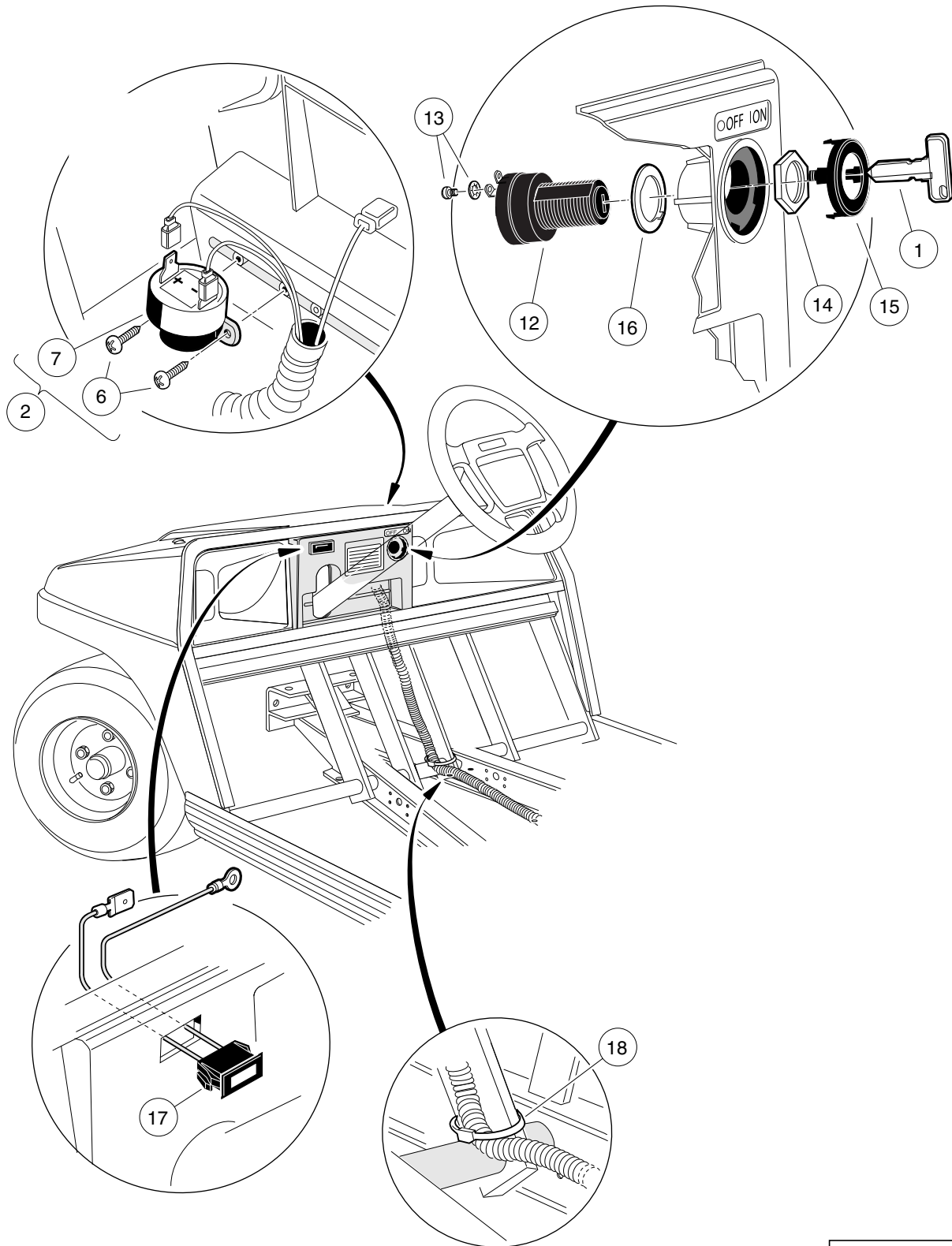
See previous two pages for illustration.

WIRING

ITEM	PART NO.	DESCRIPTION	QTY
1	<u>103689601</u>	1 2 3 4 Wire Harness Elec Ds 6x8v	1

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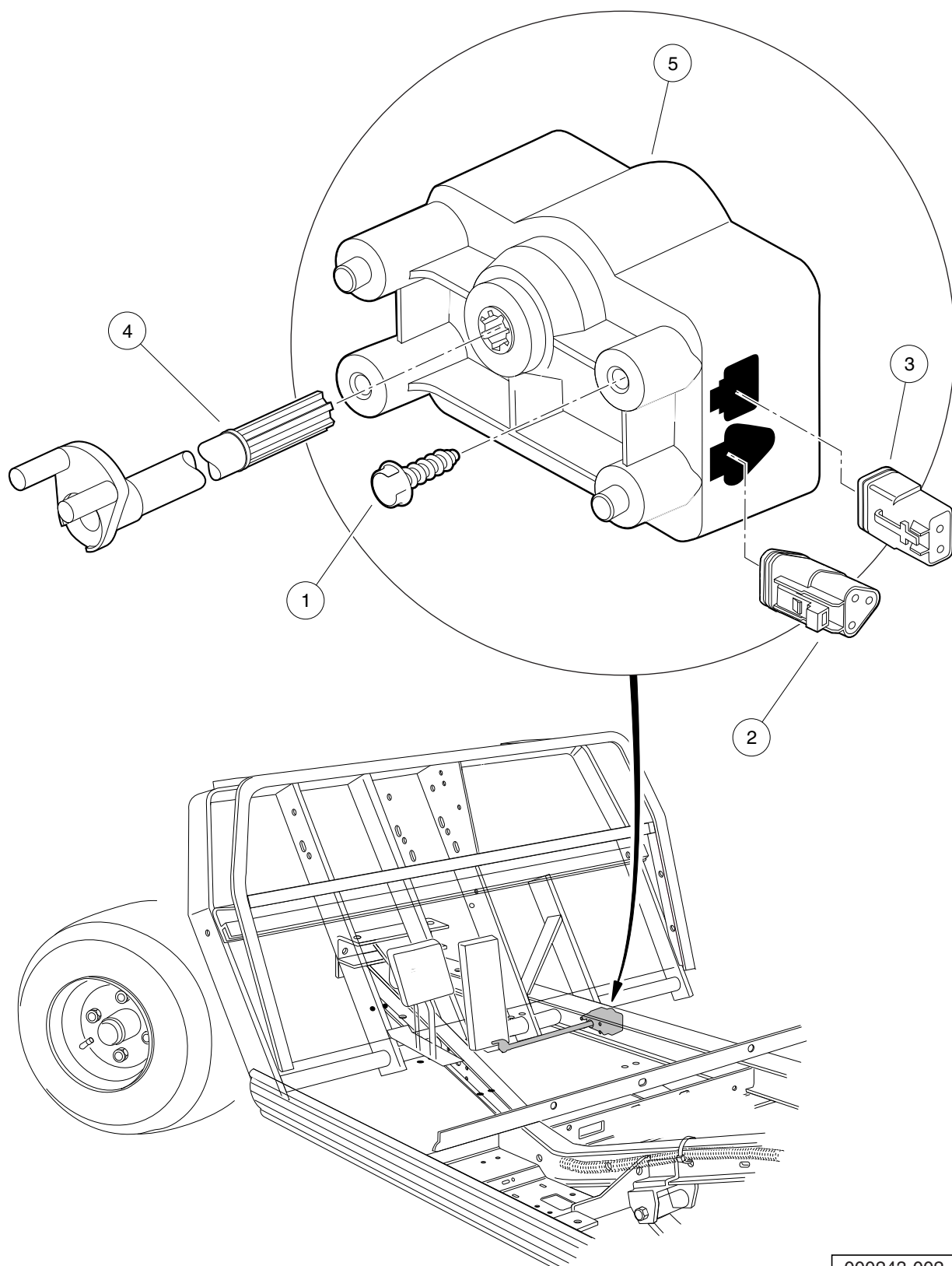
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000340-001

INSTRUMENT PANEL COMPONENTS

ITEM	PART NO.	DESCRIPTION	QTY	13
		1 2 3 4		
1	<u>1012505</u>	Keys (set of 2)	1	
2	<u>1016859</u>	Kit, Reverse Buzzer (includes items 3 through 11)	1	E
3	<u>1011229</u>	Locknut, #6-32 Whiz	1	
4	<u>1012431</u>	Washer, #4 Flat	2	
5	<u>1015720</u>	Screw, #6-32 X 1/2 Hex Washer-Head	1	
6	<u>1016849</u>	Screw, #4-24 X 0.33 Pan-Head Machine	2	
7	<u>1016851</u>	Buzzer, Reverse (9-48 VDC)	1	
8	<u>1016857</u>	Wire Assembly Black #18	1	
9	<u>8056</u>	Screw, #4-40 X 0.75 Round-Head Machine	2	
10	<u>8057</u>	Nut, #4-40 Hex Machine	2	
11	<u>8058</u>	Lockwasher, #4 Split	2	
12	<u>101826201</u>	Key Switch, On/Off	1	
13	<u>101830601</u>	Screw and Washer Assembly	2	
14	<u>101830701</u>	Nut, Key Switch	1	
15	<u>101834502</u>	Cap, Black Key Switch	1	
16	<u>101851101</u>	Washer, Key Switch	1	
17	<u>101935501</u>	Light, Battery (Amber)	1	
18	<u>8990</u>	Tie Wrap, 8" Nylon	2	
Note: Item 2, Reverse Buzzer Kit, contains parts not used in this application.				



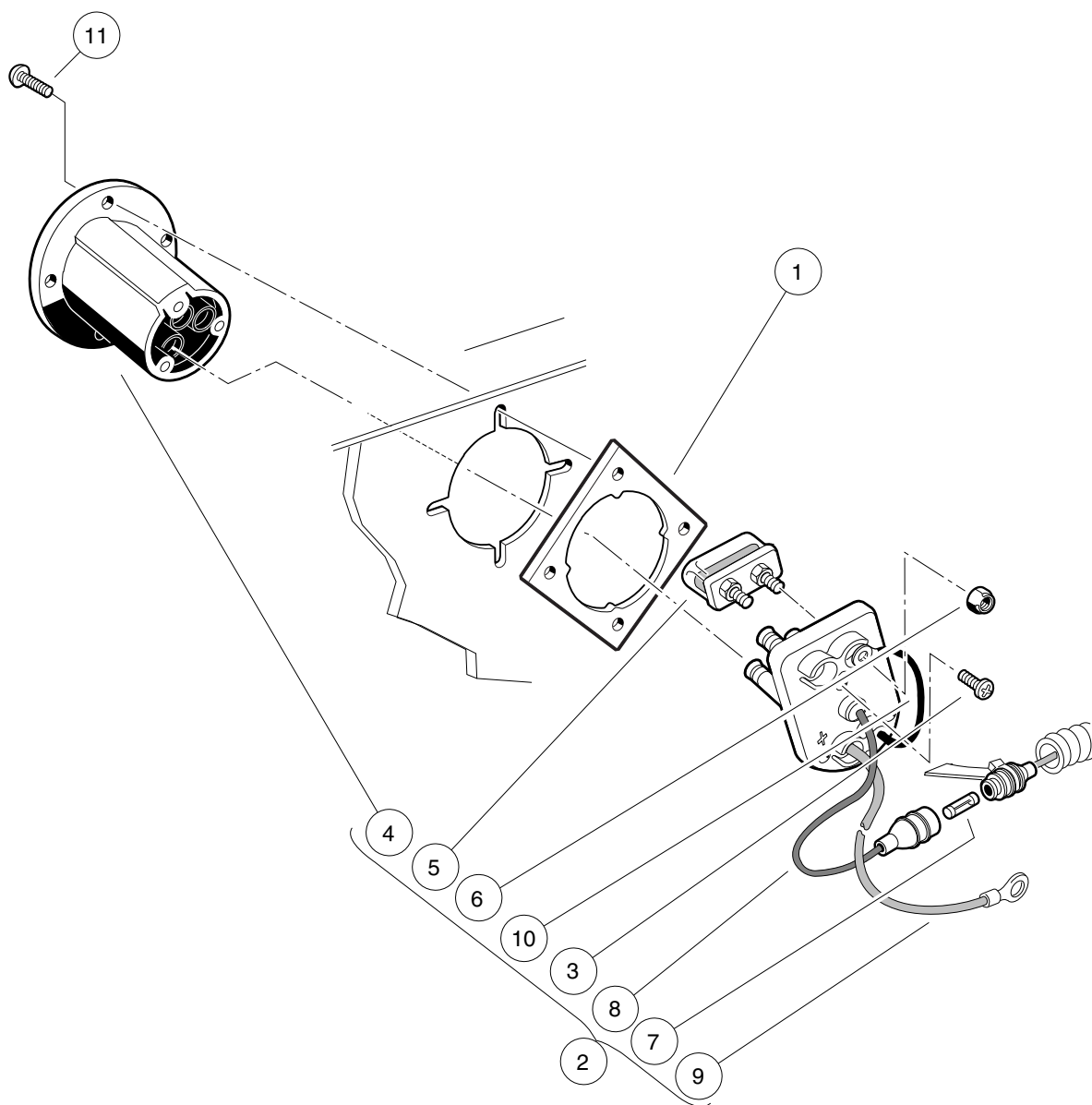
000243-002

MOTOR CONTROLLER OUTPUT REGULATOR (MCOR)

ITEM	PART NO.	DESCRIPTION	QTY	13
		1 2 3 4		
1	<u>1015752</u>	Screw, #12-16 X 0.625 Hi-Lo	2	
2	<u>101920101</u>	Kit, 3-Pin Wedge Lock	1	E
3	<u>101936801</u>	Kit, 2-Pin Wedge Lock	1	
4	<u>102101001</u>	Bar, Drive, Cast	1	
5	<u>102101101</u>	MCOR	1	

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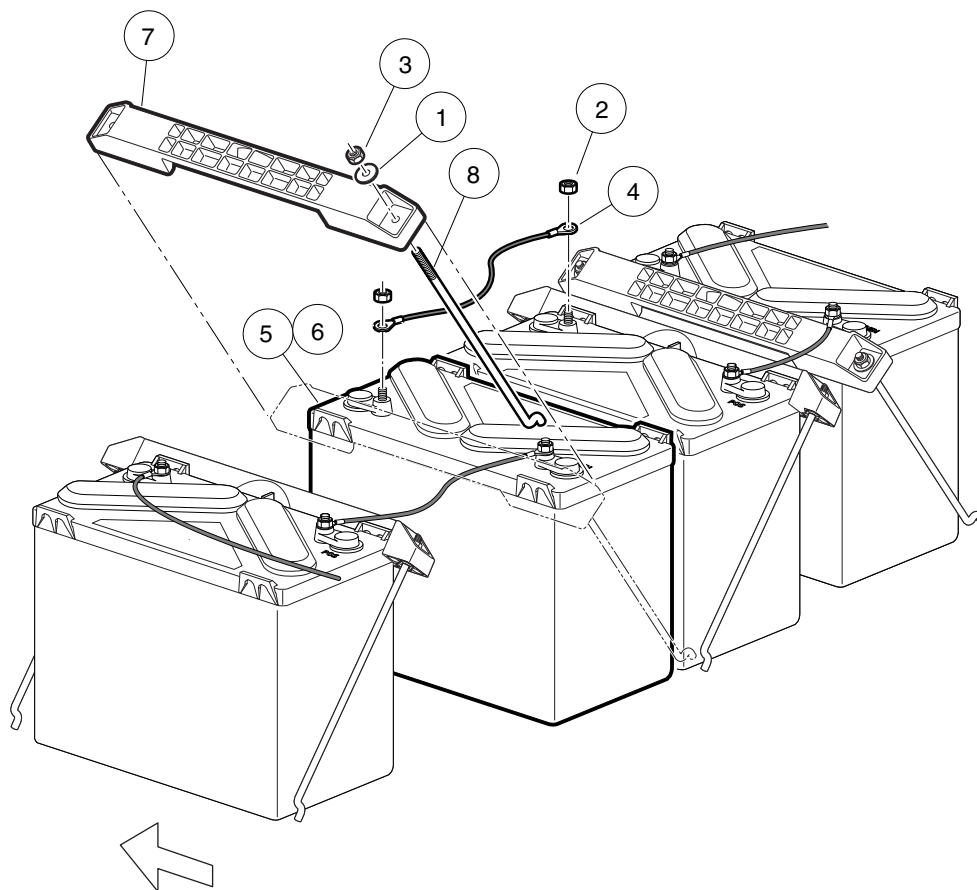
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000369-001

BATTERY CHARGER RECEPTACLE

ITEM	PART NO.	DESCRIPTION	QTY	13
		1 2 3 4		
1	<u>101801001</u>	Plate, Receptacle Backing	1	
2	<u>101802101</u>	Fuse and Receptacle Assembly (includes items 3 through 10)	1	E
3	<u>1017705</u>	Screw, #8 X 5/8 Phillips Pan-Head Type AB	3	
4	<u>101796501</u>	Receptacle	1	
5	<u>101796801</u>	Fuse Assembly (includes item 6)	1	
6	<u>1013061</u>	Locknut, #10-32 Nylon Insert	2	
7	N/A	Fuse, 3/8-Amp	1	
8	N/A	Wire Assembly, Sense Lead, Gray	1	
9	N/A	Wire Assembly, #10 Red	1	
10	N/A	Wire Assembly, #10 Black	1	
11	<u>101832001</u>	Screw, #7-19 X 0.625 Phillips Pan-Head Tap	4	



000241-002

BATTERIES, ELECTRIC VEHICLE

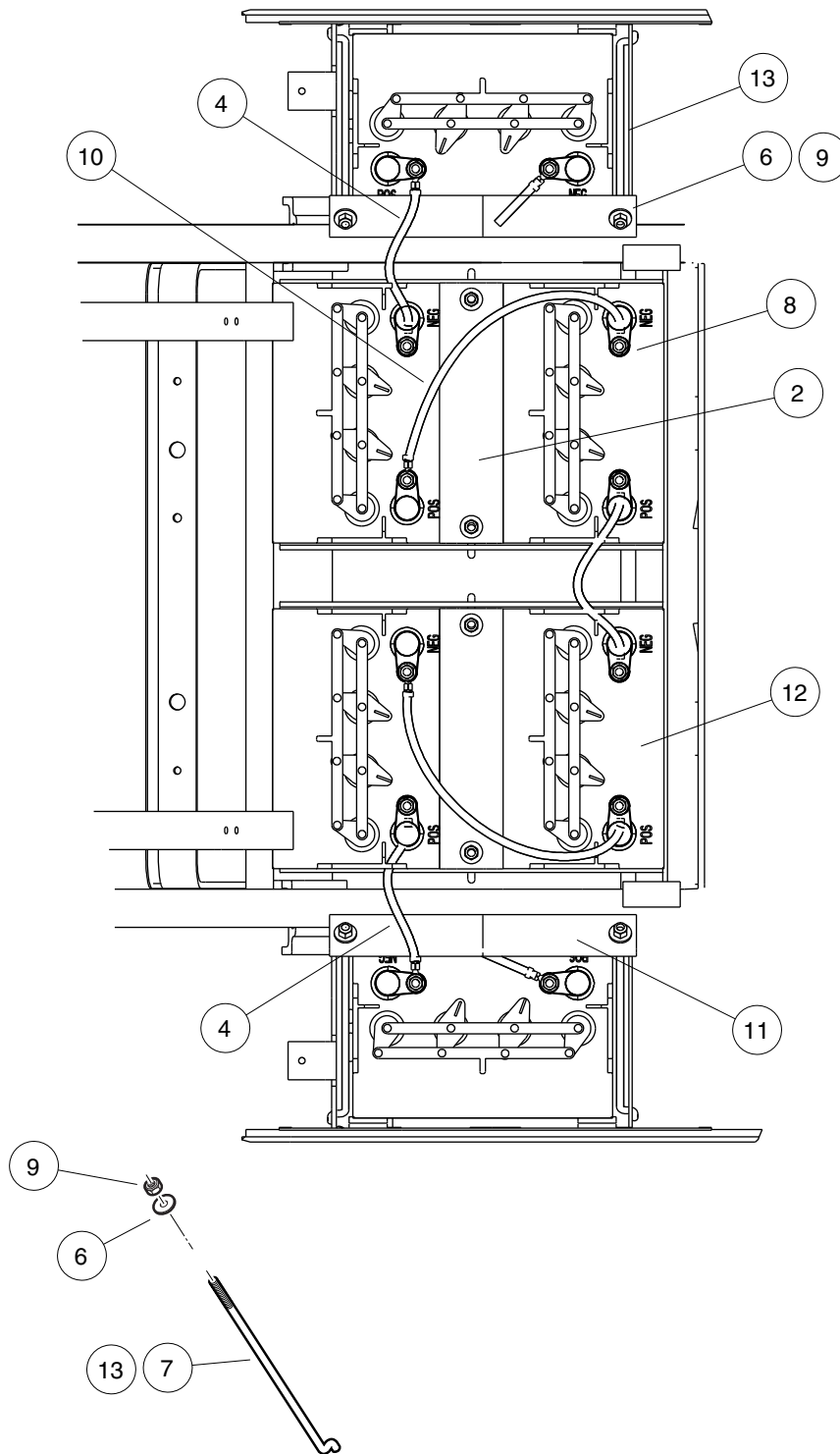
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1011697</u>	Washer, 5/16 Flat	8
2	<u>1014304</u>	Nut, 5/16-18 Stainless-Steel Hex	8
3	<u>1015072</u>	Locknut, 5/16-18 Nylon Insert	8
4	<u>101795701</u>	Asm, Wire, #6blk 13in	3
5	<u>102511301</u>	Battery, Ventmaster 12-Volt (Wet)	4
6	<u>102511302</u>	Battery, Ventmaster 12-Volt (Dry, also known as moist)	4
7	<u>102777401</u>	Battery Hold-Down	4
8	<u>102832601</u>	Bolt, Battery, J-	8

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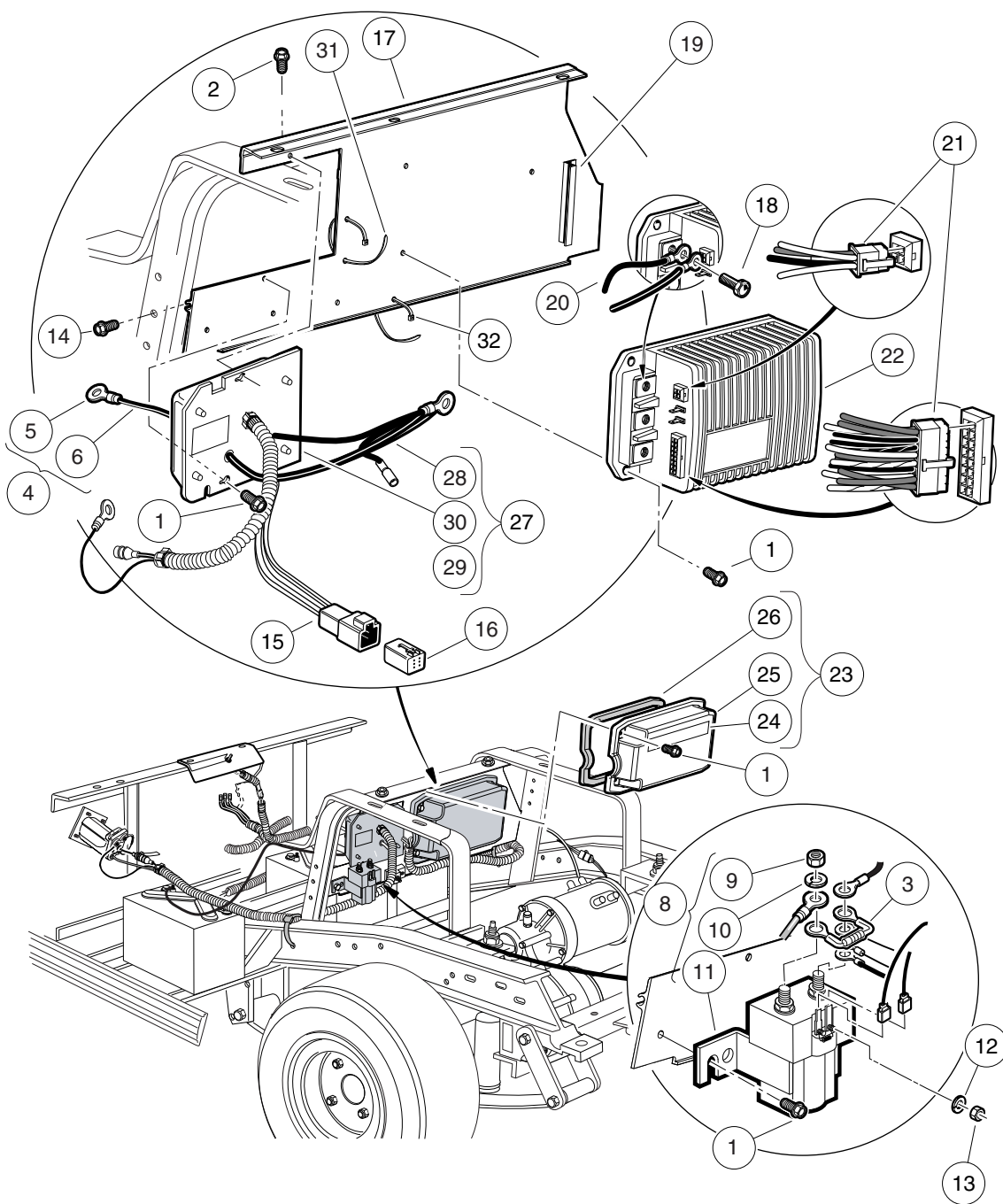


000241-004

BATTERIES – 6 X 8V, ELECTRIC VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	N/A	Instl, 8v Batt Us 48v Elec 6ga (includes items 2 through 13)	1
2	<u>101090801</u>	Hold-Down, Battery	2
3	<u>101090802</u>	Hold-Down, Battery	2
4	<u>1010958</u>	Asm, Wire, #6blk 8in	3
5	<u>1011578</u>	Washer, 5/16 Type B Flat	4
6	<u>1011697</u>	Washer, 5/16 Flat	4
7	<u>1013683</u>	J-Bolt	4
8	<u>1014304</u>	Nut, 5/16-18 Stainless-Steel Hex	12
9	<u>1015072</u>	Locknut, 5/16-18 Nylon Insert	8
10	<u>101795701</u>	Asm, Wire, #6blk 13in	2
11	<u>103504301</u>	Tee, Batt Ret Ctr Short	2
12	N/A	Battery, 8v, 8vgcxc, Wet	6
13	<u>103696801</u>	J Bolt, Batt Hold Down 12"	4

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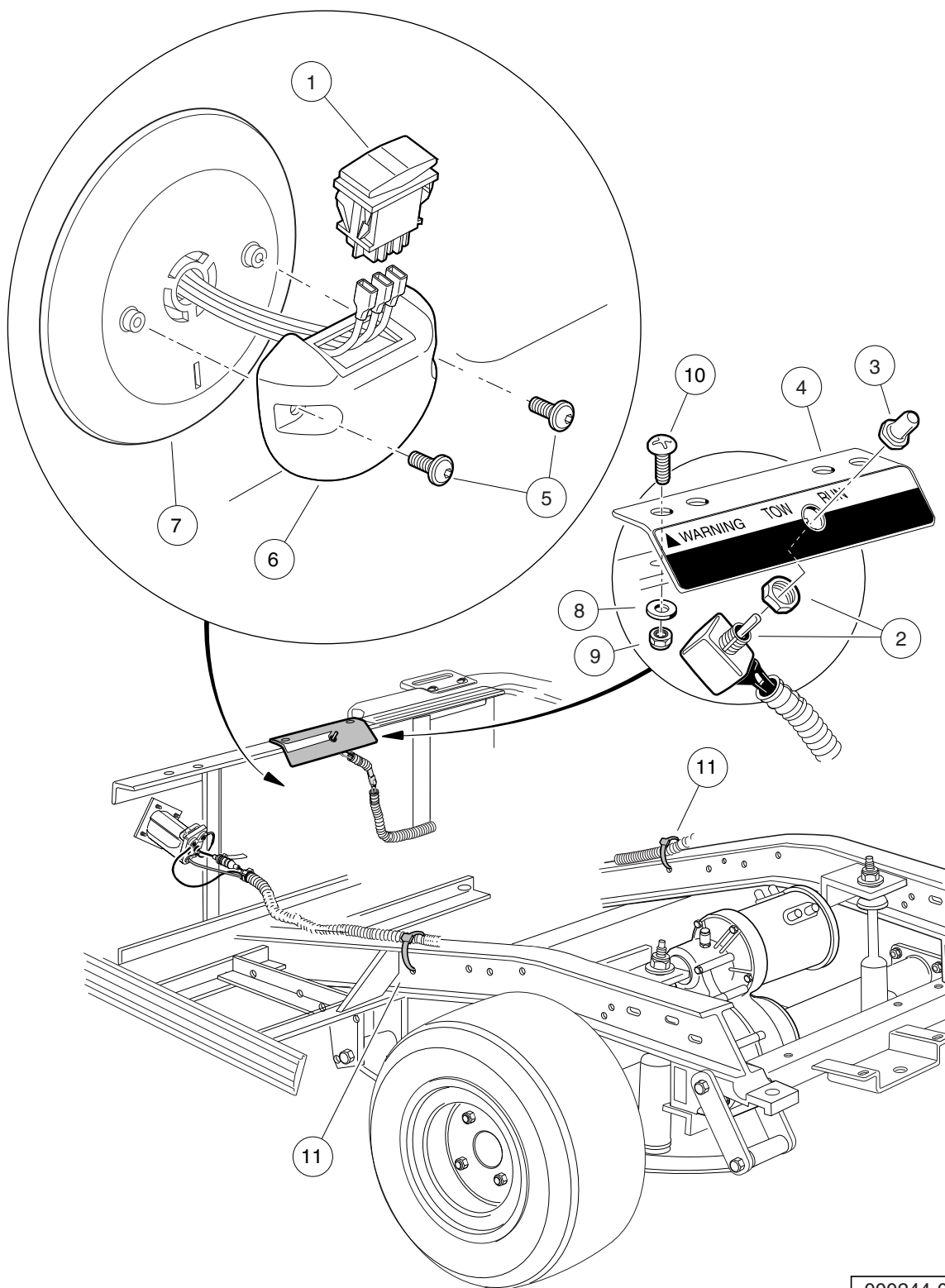
000242-005

OBC, CONTROLLER, AND SOLENOID – ELECTRIC VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1012285</u>	Screw, 1/4 X 0.625 Hex-Head	9
2	<u>1014288</u>	Screw, 5/16-18 X 0.75 Thread-Forming	2
3	<u>1014947</u>	Resistor Assembly	1
4	101827801	Ground Wire Kit, 48-Volt (includes items 5 through 7)	1
5	101826801	Compression Lug	1
6	N/A	Wire Assembly, Black	1
7	<u>8990</u>	Tie Wrap, 8" Nylon	3
8	<u>101908701</u>	Solenoid, 48-Volt (includes items 9 through 13)	1
9	<u>1012528</u>	Nut, M8-1.25 Hex	2
10	<u>1013734</u>	Lockwasher, 8mm Split	2
11	N/A	Solenoid, 48-Volt	1
12	N/A	Washer, Lock	2
13	N/A	Nut	2
14	<u>101910401</u>	Screw, 5/16-18 X 1.25 Thrd Frm	2
15	<u>101932601</u>	Kit, 6-Pin Wedge Lock	1
16	101932701	Kit, 6-Pin Receptacle and Wedge Lock	1
17	<u>101965205</u>	Plate, Component Mounting	1
18	<u>102240501</u>	Bolt, Controller, Terminal	3
19	****	Extrusion, Cover Support	1
20	<u>102263601</u>	Wire Assy, #10 Black	1
21	<u>102266501</u>	Kit, Connector, IQ Controller	1
22	<u>102806201</u>	Controller, IQ, 48-volt	1
23	<u>103316901</u>	Cover Asm - Controller (includes items 24 through 26)	1
24	<u>101931501</u>	Decal, Component Cover	1
25	<u>103316701</u>	Cover - Controller, Deep	1
26	<u>103316801</u>	Gasket - Controller Cover	1
27	N/A	Kit, OBC, DS and Util IQ (includes items 28 through 30)	1
28	<u>103282601</u>	Wire Assembly Black #10	1
29	N/A	Instr Obc Ds Pre 01-28-2007	1
30	103403101	Asm, Obc, Iq, V3.0	1
31	<u>8639</u>	Tie Wrap, 11" Nylon	1
32	<u>8990</u>	Tie Wrap, 8" Nylon	1
		**** Special order item available upon request.	

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000244-005

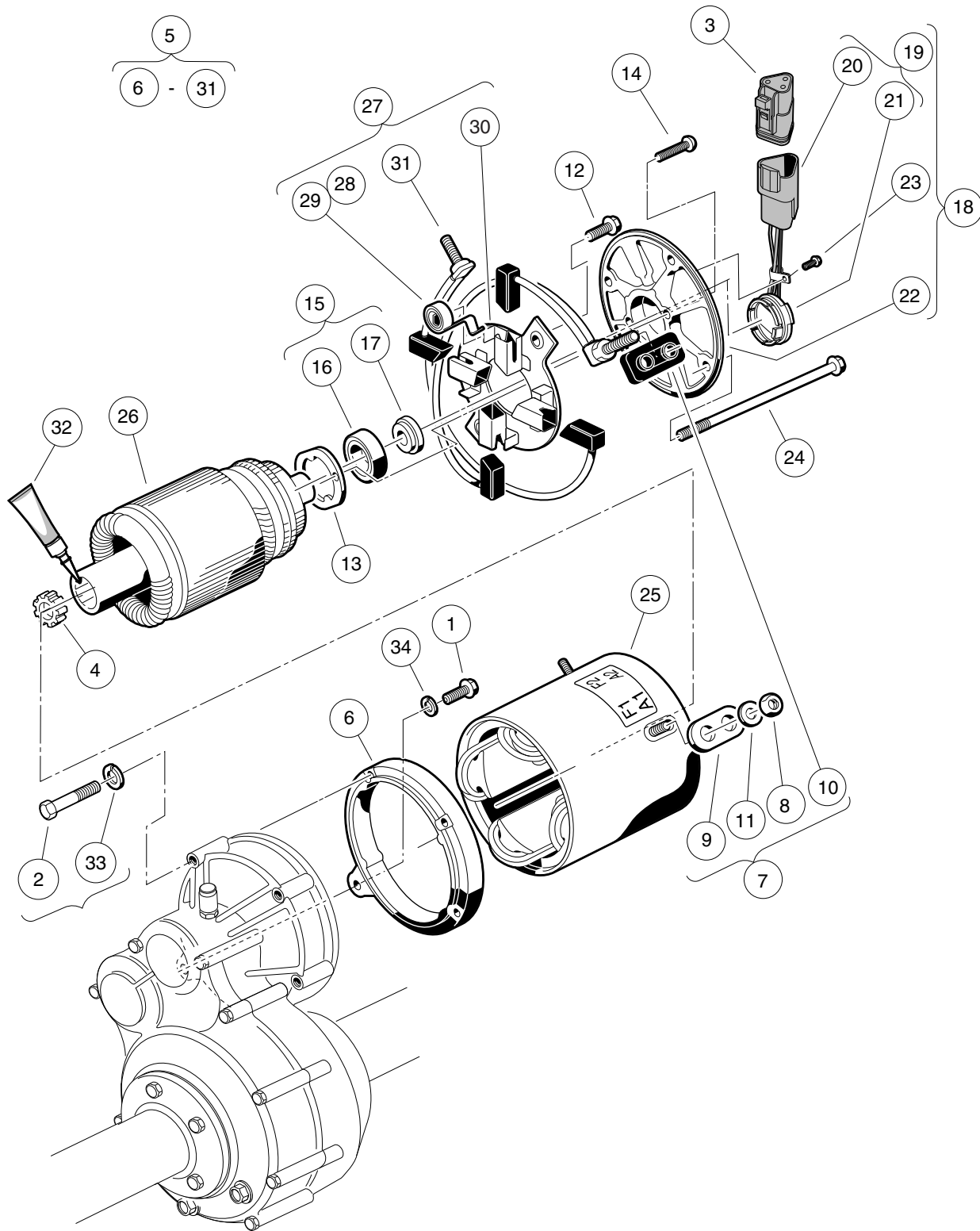
FORWARD/REVERSE SWITCH, TOW/RUN SWITCH

ITEM	PART NO.	DESCRIPTION	QTY	13
		1 2 3 4		
1	<u>101856002</u>	Switch, Rocker, Single-Pole	1	
2	<u>101908101</u>	Switch Assembly, Tow/Run	1	E
3	<u>101908401</u>	Boot, Switch	1	
4	<u>101922501</u>	Bracket, Tow/Run Switch Mounting	1	
5	<u>102296920</u>	Screw, M6 Torx Bttn Hd Sems	2	
6	<u>102508401</u>	Housing, FNR Electric	1	
7	<u>103262701</u>	Bezel Adapter Fnr	1	
8	<u>332</u>	Washer, 1/4 Type A Narrow Flat	2	
9	<u>8233</u>	Locknut, 1/4-20 Nylon Insert	2	
10	<u>8248</u>	Screw, 1/4-20 X 0.75 Truss-Head Machine	2	
11	<u>8990</u>	Tie Wrap, 8" Nylon	1	

ELECTRIC MOTOR

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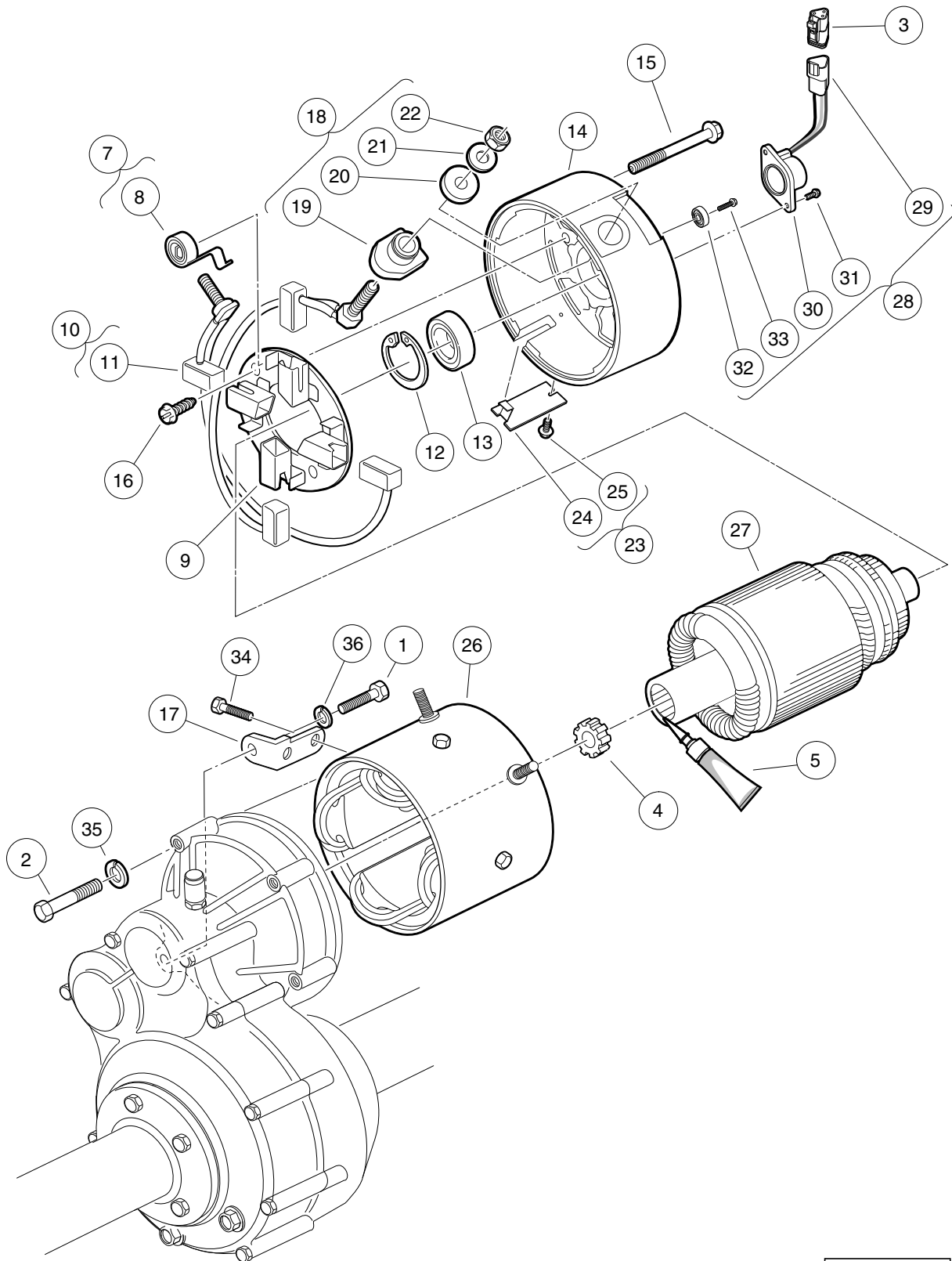


000349-002

MOTOR (MODEL 5BC59JBS6390) – ELECTRIC VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1010934</u>	Screw, 5/16-18 X 1.00 Hex Cap	1
2	<u>1014201</u>	Screw, 1/4-20 X 2.25 Hex Cap	3
3	<u>101920101</u>	Kit, 3-Pin Wedge Lock	1
4	<u>102235201</u>	Bumper, Drive Unit	1
5	<u>102240104</u>	Motor, 48-Volt Non-Skew IQ * (includes items 6 through 27)	1
6	<u>1017944</u>	End Shield	1
7	<u>1017947</u>	Hardware Package (includes items 8 through 11)	1
8	<u>1011280</u>	Locknut, 5/16-18	4
9	N/A	Insulator Bushing	2
10	N/A	Insulated Bushing	2
11	<u>1241</u>	Washer, 5/16 Type A Flat	4
12	<u>1017949</u>	Screw, #6-32 X 0.480 Hex-Head	2
13	<u>1017950</u>	Bearing Retainer	1
14	<u>1017953</u>	Screw, Bearing Retainer	2
15	<u>102265701</u>	Kit, Bearing and Magnet (includes items 16 and 17)	1
16	<u>1011290</u>	Ball Bearing	1
17	<u>102265801</u>	Magnet	1
18	<u>102265901</u>	Motor End Shield Asm (includes items 19 through 23)	1
19	<u>102265601</u>	Speed Sensor Assembly (includes items 20 and 21)	1
20	<u>101942301</u>	Kit, 3-Pin Wedge Lock	1
21	N/A	Sensor, Speed, without Connector	1
22	<u>102266001</u>	End Shield, Motor	1
23	<u>102267001</u>	Screw, #8-32 X 0.375 Hex-Head	1
24	<u>102266101</u>	Screw, #10 - 32 X 8.250	4
25	<u>103325701</u>	Stator Shell and Winding	1
26	<u>103325801</u>	Non Skew Armature	1
27	<u>103337601</u>	Brush Assembly, IQ Motor, Non-Skew (includes items 28 through 31)	1
28	<u>1011411</u>	Kit, Brush Spring (ge Motor) (includes item 29)	1
29	<u>1011285</u>	Brush Spring	4
30	<u>103325501</u>	Brush Rigging, Non-Skew Motor	1
31	<u>103325601</u>	Brush Set, Non-Skew	1
32	<u>102243403</u>	Lubricant, Moly-Teflon (Single-Use Tube)	1
33	<u>451</u>	Lockwasher, 1/4 Split	3
34	<u>7174</u>	Lockwasher, 5/16 Split	1
* Note: The model 5BC59JBS6390 motor has been discontinued. To replace the motor, use motor model EJ8-4001A.			

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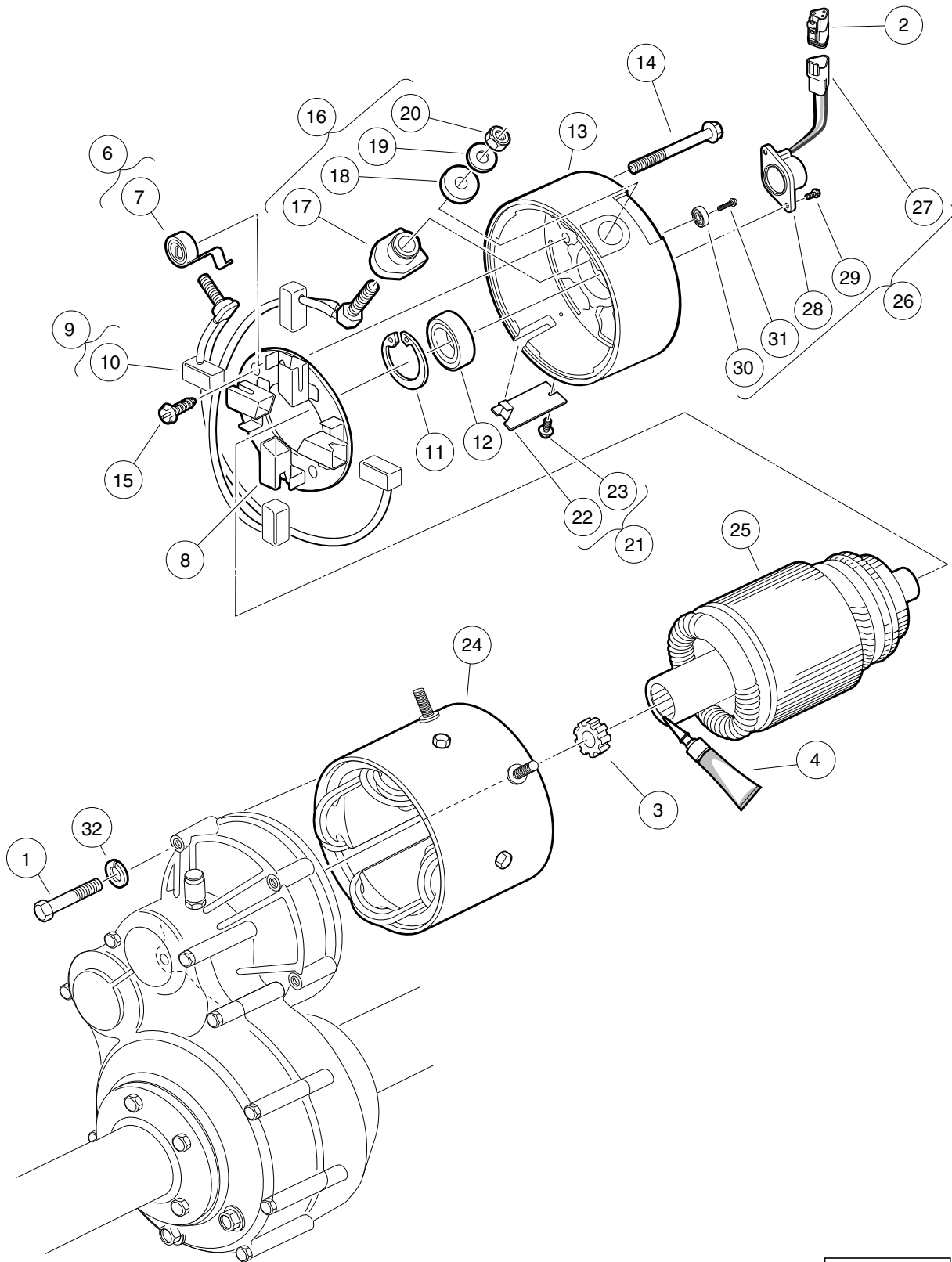


000185-001

MOTOR (MODEL EJ4-4001) – ELECTRIC VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>1010934</u>	Screw, 5/16-18 X 1.00 Hex Cap	1
2	<u>1014201</u>	Screw, 1/4-20 X 2.25 Hex Cap	3
3	<u>101920101</u>	Kit, 3-Pin Wedge Lock	1
4	<u>102235201</u>	Bumper, Drive Unit	1
5	<u>102243403</u>	Lubricant, Moly-Teflon (Single-Use Tube)	1
6	<u>102705001</u>	IQ Electric Motor, 48-VDC 3.3 hp * (includes items 7 through 34)	1
7	<u>102186001</u>	Spring Kit, Motor Brush (includes item 8)	1
8	N/A	Spring, Brush, S-g	4
9	<u>102186101</u>	Brush Box Assembly	1
10	<u>102186201</u>	Brush Kit, Motor (includes item 11)	1
11	N/A	Assembly, Brush and Terminal	2
12	<u>102186301</u>	Ring, 2.24" Internal Retaining	1
13	<u>102186401</u>	Bearing, Ball	1
14	<u>102186701</u>	End Cap, Motor	1
15	N/A	Screw, 1/4-20 X 2.25 Hex-Head Washer	2
16	<u>102186901</u>	Screw, #8-32 X .5 Hex-Head	2
17	<u>102187001</u>	L-Bracket, Motor	1
18	<u>102187101</u>	Hardware Kit, Motor Terminal (includes items 19 through 22)	2
19	N/A	Bushing, Nylon	2
20	N/A	Washer, Nylon Flat	2
21	N/A	Washer, Flat, 5/16 Steel	2
22	N/A	Nut, Brass Hex, 5/16 - 18	2
23	<u>102187201</u>	Plate Kit, Motor Cover (includes items 24 and 25)	1
24	N/A	Assembly, Cover Plate	1
25	N/A	Screw, #8-32 x 0.375, Taptite Thread	1
26	<u>102704701</u>	Frame and Field Assembly	1
27	<u>102704801</u>	Armature Assembly	1
28	<u>102704901</u>	Kit, Speed Sensor (includes items 29 through 33)	1
29	<u>101942301</u>	Kit, 3-Pin Wedge Lock	1
30	N/A	Sensor, Motor Speed, ADC	1
31	N/A	Screw, #8-32, Taptite Thread	2
32	N/A	Magnet, ADC Motor	1
33	N/A	Screw, 1/4-20 x 0.5	1
34	N/A	Bolt, 1/4 - 20 x 0.73 Thread-Forming	2
35	<u>451</u>	Lockwasher, 1/4 Split	3
36	<u>7174</u>	Lockwasher, 5/16 Split	1
* Note: The model EJ4-4001 motor has been discontinued. To replace the motor, use motor model EJ8-4001A.			

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000185-002

MOTOR (MODEL EJ8-4001A) – ELECTRIC VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1014201	Screw, 1/4-20 X 2.25 Hex Cap	3
2	<u>101920101</u>	Kit, 3-Pin Wedge Lock	1
3	<u>102235201</u>	Bumper, Drive Unit	1
4	<u>102243403</u>	Lubricant, Moly-Teflon (Single-Use Tube)	1
5	N/A	IQ Electric Motor, 48-VDC 3.3 hp (includes items 6 through 26)	1
6	<u>102186001</u>	Spring Kit, Motor Brush (includes item 7)	1
7	N/A	Spring, Brush, S-g	4
8	<u>102186101</u>	Brush Box Assembly	1
9	<u>102186201</u>	Brush Kit, Motor (includes item 10)	1
10	N/A	Assembly, Brush and Terminal	2
11	<u>102186301</u>	Ring, 2.24" Internal Retaining	1
12	<u>102186401</u>	Bearing, Ball	1
13	<u>102186701</u>	End Cap, Motor	1
14	N/A	Screw, 1/4-20 X 2.25 Hex-Head Washer	2
15	<u>102186901</u>	Screw, #8-32 X .5 Hex-Head	2
16	<u>102187101</u>	Hardware Kit, Motor Terminal (includes items 17 through 20)	2
17	N/A	Bushing, Nylon	2
18	N/A	Washer, Nylon Flat	2
19	N/A	Washer, Flat, 5/16 Steel	2
20	N/A	Nut, Brass Hex, 5/16 - 18	2
21	<u>102187201</u>	Plate Kit, Motor Cover (includes items 22 and 23)	1
22	N/A	Assembly, Cover Plate	1
23	N/A	Screw, #8-32 x 0.375, Taptite Thread	1
24	<u>102704701</u>	Frame and Field Assembly	1
25	<u>102704801</u>	Armature Assembly	1
26	<u>102704901</u>	Kit, Speed Sensor (includes items 27 through 31)	1
27	<u>101942301</u>	Kit, 3-Pin Wedge Lock	1
28	N/A	Sensor, Motor Speed, ADC	1
29	N/A	Screw, #8-32, Taptite Thread	2
30	N/A	Magnet, ADC Motor	1
31	N/A	Screw, 1/4-20 x 0.5	1
32	<u>451</u>	Lockwasher, 1/4 Split	3

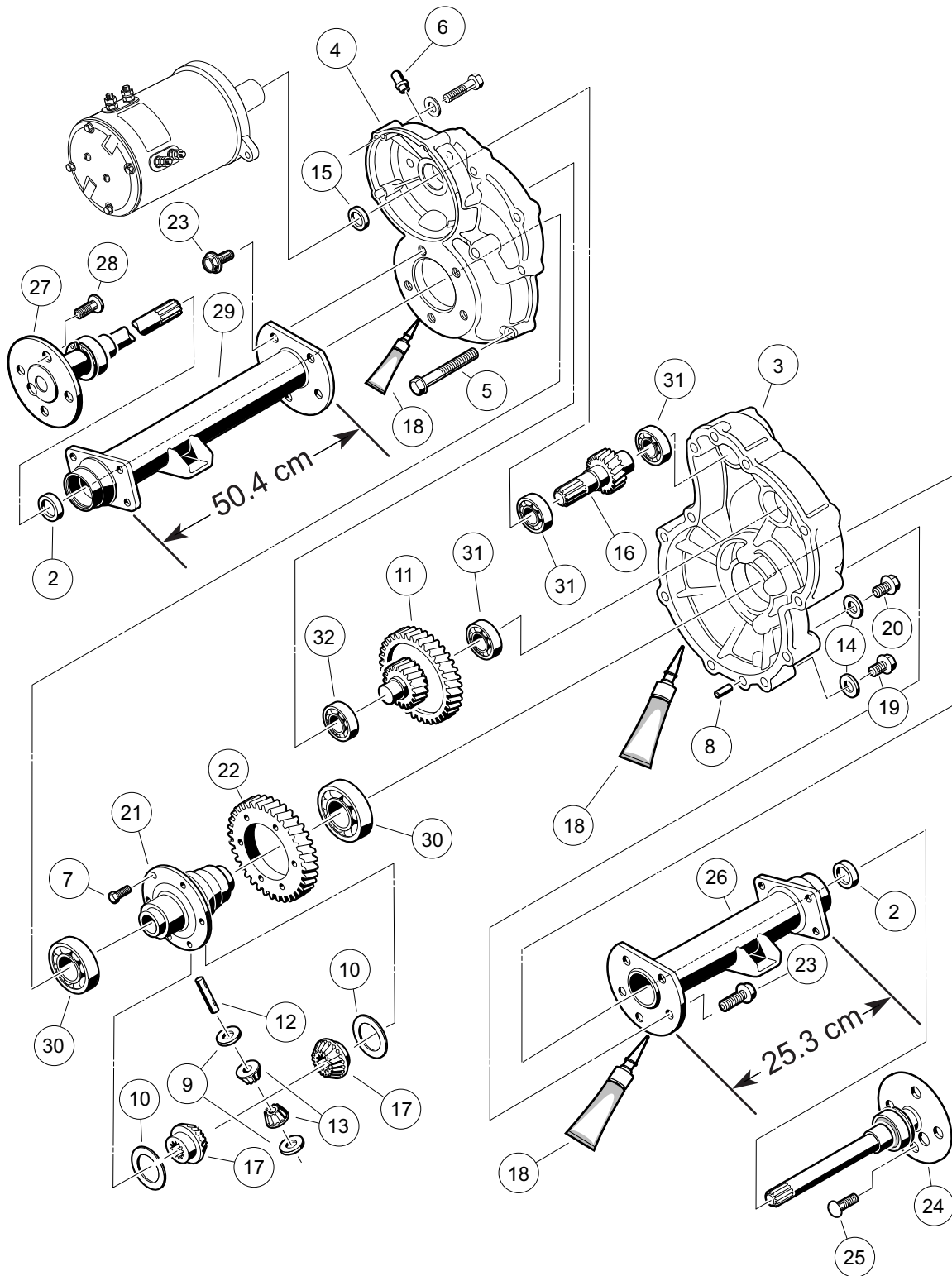
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TRANSAXLE – ELECTRIC VEHICLES

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000223-002

TRANSAXLE – ELECTRIC VEHICLES

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>102771701</u>	Transaxle, Electric (includes items 2 through 32)	1
2	<u>1013794</u>	Axle Shaft Oil Seal	2
3	<u>101895401</u>	Gear Case, Left-Hand	1
4	<u>101895501</u>	Gear Case, Passenger-Side	1
5	<u>101897001</u>	Screw, M8-1.25 X 60mm Hex-Head	11
6	<u>101897201</u>	Breather	1
7	<u>101897401</u>	Screw, M10-1.25 X 25mm	6
8	<u>101897601</u>	Pin, 11mm OD X 8.5mm ID X 10mm	2
9	<u>101903601</u>	Washer, Thrust	2
10	<u>101903701</u>	Washer, Thrust	2
11	<u>101906901</u>	Intermediate Shaft Assembly	1
12	<u>101922101</u>	Pin, 15.99mm X 88.7mm Dowel	1
13	<u>101923001</u>	Gear, Differential Idler	2
14	<u>101923201</u>	Gasket	2
15	<u>101923501</u>	Seal, Lip	1
16	<u>101923701</u>	Shaft, Input	1
17	<u>101923901</u>	Gear, Differential	2
18	<u>101928701</u>	Liquid Gasket (Transaxle case)	1
19	<u>101972101</u>	Plug, M14-1.5 X 12mm Magnetic	1
20	<u>101972201</u>	Plug, M14-1.5 X 12mm Hex	1
21	<u>102356601</u>	Housing, Differential, 6 Bolt	1
22	<u>102356801</u>	Gear, Differential Output, 6-Bolt	1
23	<u>102357001</u>	Screw, Flg Hd M10 X 1.5 X 30	10
24	<u>102886301</u>	Axle Assembly, Driver-Side (includes item 25)	1
25	<u>101922201</u>	Lug Stud	4
26	<u>102886401</u>	Tube, Axle, Driver-Side	1
27	<u>102886501</u>	Axle Assembly, Passenger-Side (includes item 28)	1
28	<u>101922201</u>	Lug Stud	4
29	<u>102886601</u>	Tube, Axle, Passenger-Side	1
30	<u>7330</u>	Inner Axle Tube Bearing	2
31	<u>7335</u>	Bearing	3
32	<u>7336</u>	Bearing	1

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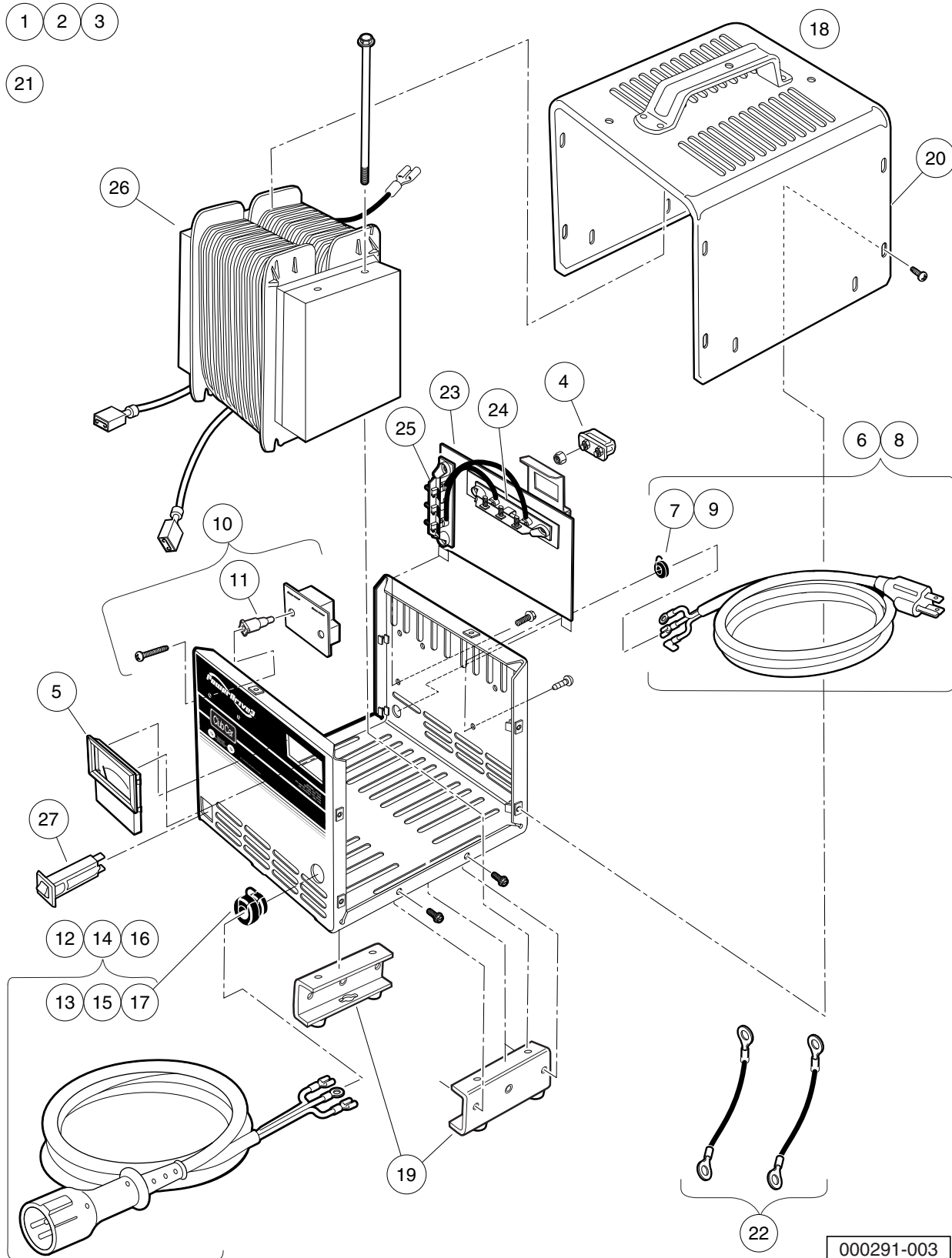
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BATTERY CHARGER

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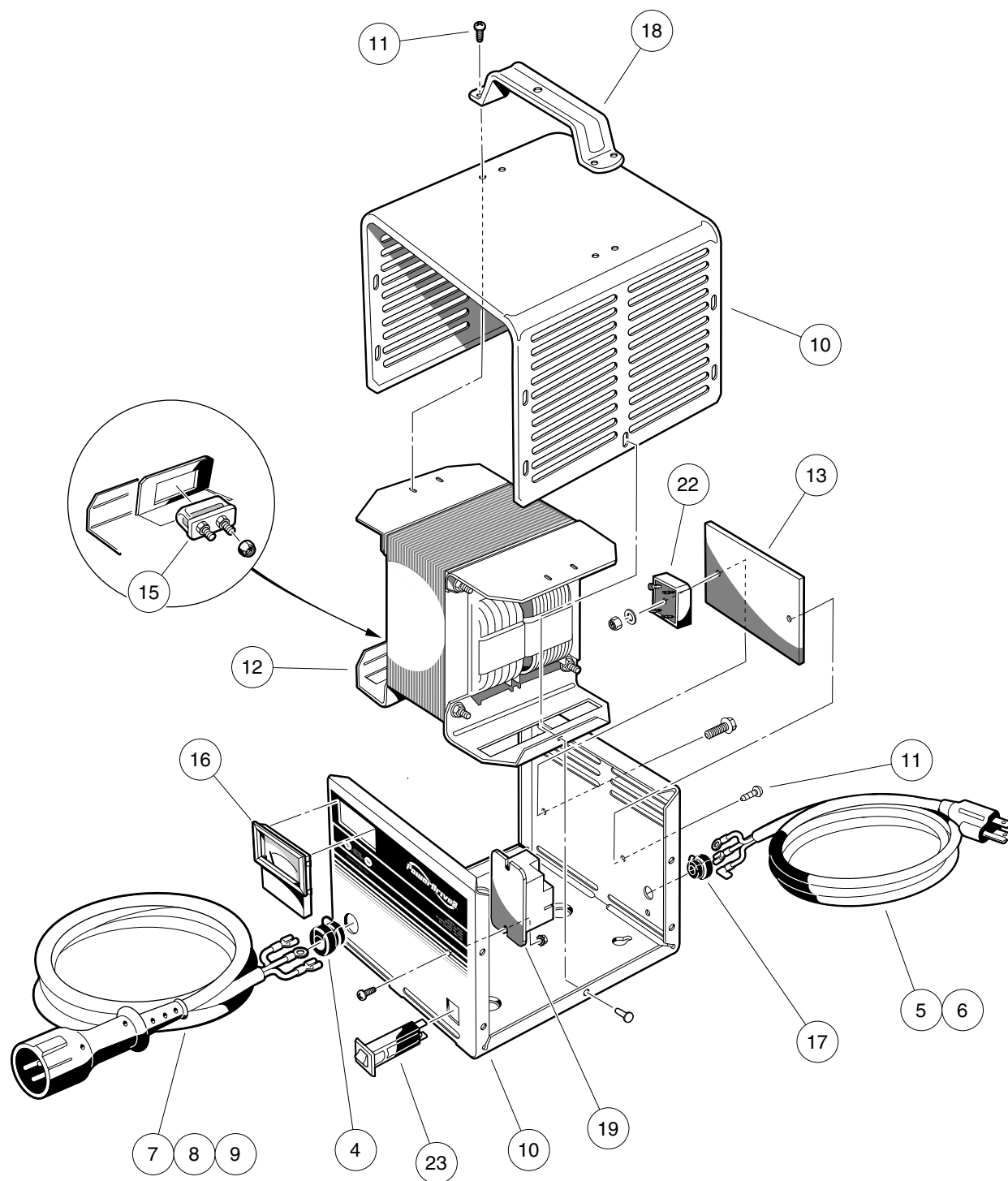
000291-003

POWERDRIVE 3 BATTERY CHARGER, DOMESTIC

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>103717001</u>	Chgr, Pd3 Stnry, 9Dc6'Ac'	1
2	<u>103717002</u>	Chgr, Pd3 Stnry, 12Dc9'Ac'	1
3	<u>103717003</u>	Chgr, Pd3 Stnry, 20Dc9'Ac'(includes items 4 through 27)	1
4	<u>102273701</u>	PD2 Fuse Asm	1
5	<u>102273801</u>	PD2 Ammeter	1
6	<u>103428501</u>	Kit, PD3 Cordset - AC 80" (includes item 7)	1
7	<u>102273901</u>	PD2 AC Cord Bushing	1
8	<u>103428601</u>	Kit, PD3 Cordset, - AC 114" (includes item 9)	1
9	<u>102273901</u>	PD2 AC Cord Bushing	1
10	<u>103428701</u>	Asm, PD3 Board Relay (includes item 11)	1
11	<u>103429701</u>	PD3 Plastic Stand-Offs	2
12	<u>103429001</u>	PD3 Cordset - DC 113" (includes item 13)	1
13	<u>1012098</u>	Bushing, DC Cord	1
14	<u>103429101</u>	PD3 Cordset - DC 154" (includes item 15)	1
15	<u>1012098</u>	Bushing, DC Cord	1
16	<u>103429201</u>	PD3 Cordset - DC 205" (includes item 17)	1
17	<u>1012098</u>	Bushing, DC Cord	1
18	<u>103429301</u>	Asm, PD3 Case (includes items 19 and 20)	1
19	<u>103434001</u>	Asm, PD3 Legs	1
20	<u>103439901</u>	PD3Case Top (Includes Handle)	1
21	<u>103429501</u>	Kit, PD3 Hardware	1
22	<u>103513001</u>	Wire Asm Kit Blk Pd3	1
23	<u>103517401</u>	Kit Pd3 Button Diode (includes items 24 and 25)	1
24	<u>103512801</u>	Asm Diode Top	1
25	<u>103512901</u>	Asm Diode Side	1
26	<u>103779601</u>	Transformer, Pd3, Al	1
27	<u>CCX8506</u>	Circuit Breaker, 15-Amp/120-Volt	1

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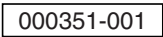
000291-001

POWERDRIVE 2 BATTERY CHARGER (MODEL 22110), DOMESTIC

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>101802204</u>	48-V/13-A PowerDrive 2 (9-ft. DC, 6-ft. AC)	1
2	<u>101802205</u>	48-V/13-A PowerDrive 2 (12-ft. DC, 9-ft. AC)	1
3	<u>101802206</u>	48-V/13-A PowerDrive 2 (20-ft. DC, 9-ft. AC) (includes items 4 through 23)	1
4	<u>1012098</u>	Bushing, DC Cord	1
5	<u>101828801</u>	Cord, AC, 80-Inch (203 cm)	1
6	<u>101828802</u>	Cord, AC, 108-Inch (274 cm)	1
7	<u>101828904</u>	PD2 DC Cordset, 113-inch	1
8	<u>101828905</u>	PD2 DC Cordset, 154-inch	1
9	<u>101828906</u>	Pd2 Dc Cordset 250 Inch	1
10	<u>102273201</u>	PD2 Case (includes item 11)	1
11	7577	Screw, #10 X 0.50 Phillips Pan-Head	12
12	<u>102273301</u>	PD2 Transformer Asm	1
13	<u>102273401</u>	PD2 Heatsink	1
14	<u>102273601</u>	PD2 Wire Asm	1
15	<u>102273701</u>	PD2 Fuse Asm	1
16	<u>102273801</u>	PD2 Ammeter	1
17	<u>102273901</u>	PD2 AC Cord Bushing	1
18	<u>102274001</u>	PD2 Handle	1
19	<u>103414901</u>	Kit, Relay, 48v 30a W/instr (includes items 20 and 21)	1
20	<u>103397901</u>	Relay, Spst No, 48v 30a, Pmt	1
21	N/A	Kit, Relay, 48v 30a Instrns	1
22	<u>103517601</u>	Pd2 Rectifier Kit	1
23	<u>CCX8506</u>	Circuit Breaker, 15-Amp/120-Volt	1
Note: Item 16 not shown. Level 1 Battery Charger part numbers include one AC and one DC cord. They do not include all of the level 2 cords listed.			

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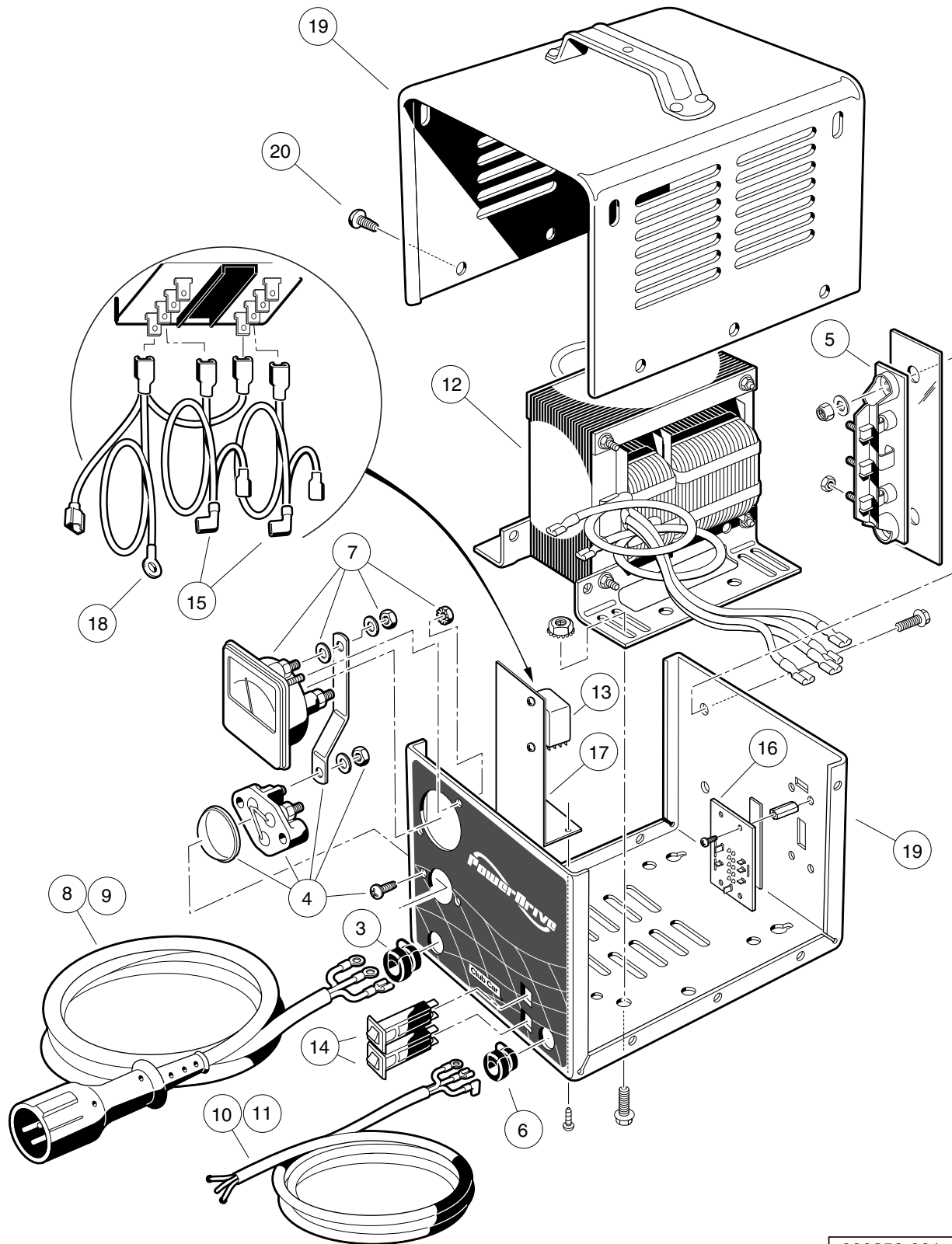


POWERDRIVE BATTERY CHARGER (MODEL 17930), DOMESTIC

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>101802201</u>	48V/17A PowerDrive (9-ft DC, 6-ft AC Cord)	1
2	<u>101802202</u>	48V/17A PowerDrive (12-ft DC, 9-ft AC Cord)	1
3	<u>101802203</u>	48V/17A PowerDrive (20-ft DC, 9-ft AC Cord) (includes items 4 through 22)	1
4	<u>1012098</u>	Bushing, DC Cord	1
5	<u>1012101</u>	Fuse Assembly	1
6	<u>1015914</u>	Rectifier with Heatsink Assembly	1
7	<u>1015917</u>	Bushing, AC Cord	1
8	****	Transformer, Battery Charger	1
9	<u>101828301</u>	Case Assembly	1
10	<u>101828501</u>	Ammeter	1
11	<u>101828801</u>	Cord, AC, 80-Inch (203 cm)	1
12	<u>101828802</u>	Cord, AC, 108-Inch (274 cm)	1
13	<u>101828901</u>	Cord, DC, 113-Inch (287 cm)	1
14	<u>101828902</u>	Cord, DC, 154-Inch (391 cm)	1
15	<u>101828903</u>	Cord, DC, 250-Inch (635 cm)	1
16	<u>101831101</u>	Wire Assembly Kit	1
17	101914401	Assembly, Voltage Suppressor	1
18	<u>103414901</u>	Kit, Relay, 48v 30a W/instr (includes items 19 and 20)	1
19	<u>103397901</u>	Relay, Spst No, 48v 30a, Pmt	1
20	N/A	Kit, Relay, 48v 30a Instrns	1
21	7577	Screw, #10 X 0.50 Phillips Pan-Head	10
22	<u>CCX8506</u>	Circuit Breaker, 15-Amp/120-Volt	1
**** Special order item available upon request.			
Note: Level 1 Battery Charger part numbers include one AC and one DC cord. They do not include all of the level 2 cords listed.			

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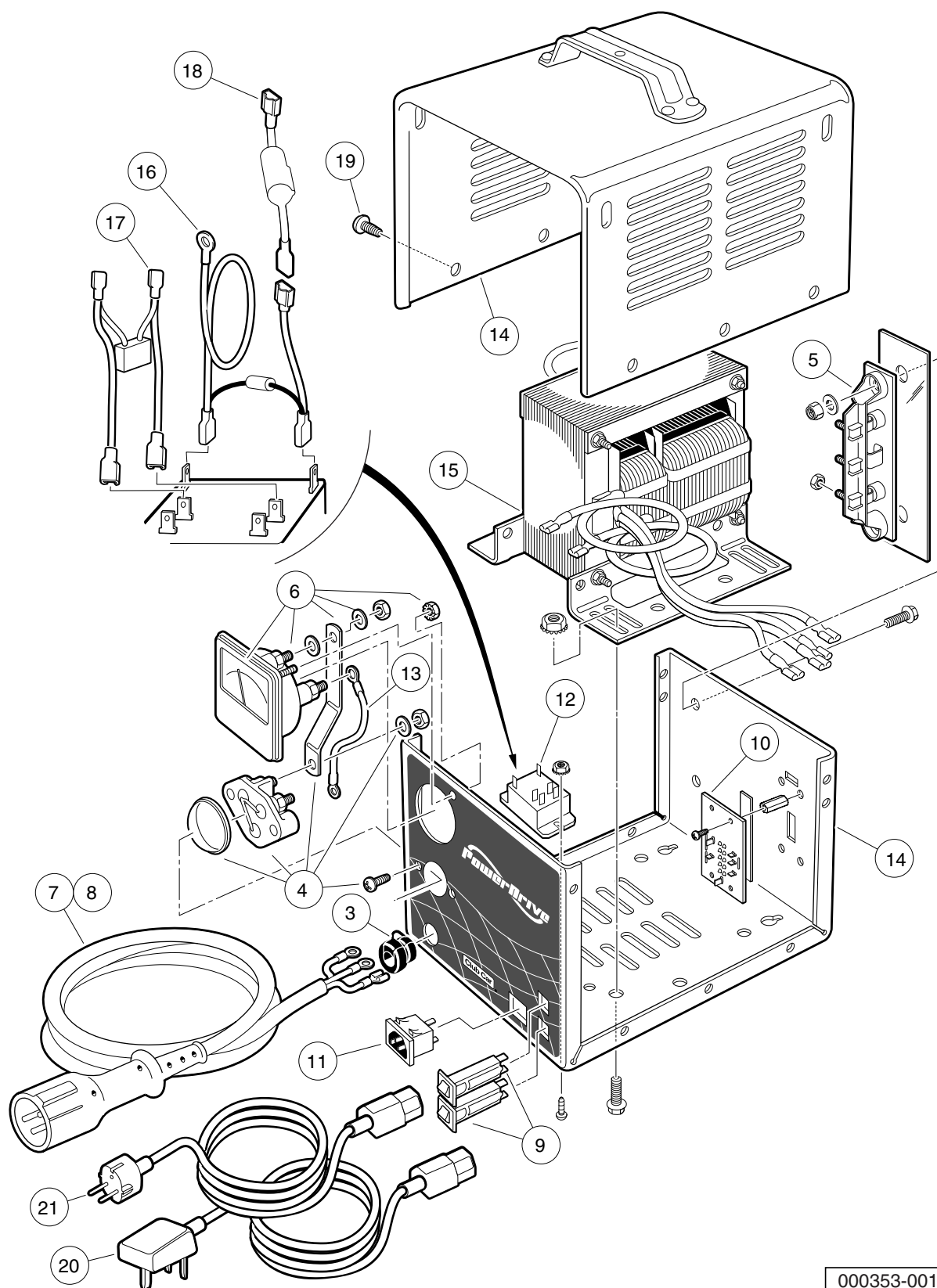
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POWERDRIVE BATTERY CHARGER (MODEL 18780), EXPORT

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101831503	Battery Charger, 48-Volt DC (8.5-ft DC, 6-ft AC)	1
2	101831504	Battery Charger, 48-Volt DC (12-ft DC, 9-ft AC) (includes items 3 through 20)	1
3	<u>1012098</u>	Bushing, DC Cord	1
4	<u>1012101</u>	Fuse Assembly	1
5	<u>1015914</u>	Rectifier with Heatsink Assembly	1
6	<u>1015917</u>	Bushing, AC Cord	1
7	<u>101828501</u>	Ammeter	1
8	<u>101828901</u>	Cord, DC, 113-Inch (287 cm)	1
9	<u>101828902</u>	Cord, DC, 154-Inch (391 cm)	1
10	<u>101831701</u>	Cord, AC, 80-Inch (203 cm), without Plug	1
11	<u>101831702</u>	Cord, AC, 118-Inch (203 cm), without Plug	1
12	101838201	Transformer, Export Battery Charger	1
13	<u>101838301</u>	Relay, Export Charger	1
14	101838401	Circuit Breaker	2
15	101838501	Kit, Wire Assembly	1
16	101838601	Four-Position Switch	1
17	****	Mounting Bracket, Relay	1
18	101914401	Assembly, Voltage Suppressor	1
19	N/A	Case, Charger	1
20	7577	Screw, #10 X 0.50 Phillips Pan-Head	10
**** Special order item available upon request. Note: Level 1 Battery Charger part numbers include one AC and one DC cord. They do not include all of the level 2 cords listed.			

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000353-001

POWERDRIVE BATTERY CHARGER (MODEL 20310), EUROPEAN

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	<u>101956201</u>	Battery Charger, 48-Volt w/ 4-Position Switch (8.5-ft DC)	1
2	<u>101956202</u>	Battery Charger, 48-Volt w/ 4-Pos. Switch (12-ft DC) (includes items 3 through 19)	1
3	<u>1012098</u>	Bushing, DC Cord	1
4	<u>1012101</u>	Fuse Assembly	1
5	<u>1015914</u>	Rectifier with Heatsink Assembly	1
6	<u>101828501</u>	Ammeter	1
7	<u>101828901</u>	Cord, DC, 113-Inch (287 cm)	1
8	<u>101828902</u>	Cord, DC, 154-Inch (391 cm)	1
9	<u>101838401</u>	Circuit Breaker	2
10	<u>101838601</u>	Four-Position Switch	1
11	<u>101973501</u>	Receptacle, AC Cord	1
12	<u>101987501</u>	Relay	1
13	N/A	Wire, Jumper	1
14	N/A	Case, Charger	1
15	****	Transformer, European Battery Charger	1
16	****	Suppressor, AC Voltage	1
17	****	Assembly, Wire	1
18	****	Limiter, Current	1
19	7577	Screw, #10 X 0.50 Phillips Pan-Head	10
20	<u>101958201</u>	Cord, UK, AC, Battery Charger	1
21	<u>101958301</u>	Cord, European AC, Battery Charger	1
**** Special order item available upon request.			
Note: Level 1 Battery Charger part numbers include one AC and one DC cord. They do not include all of the level 2 cords listed.			

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MAINTENANCE AND SERVICE TOOLS

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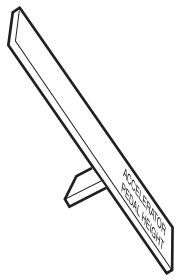
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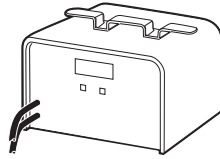
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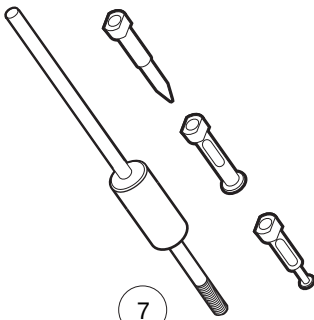
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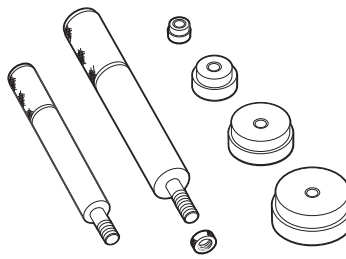
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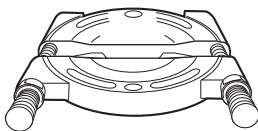
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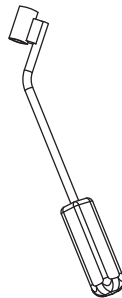
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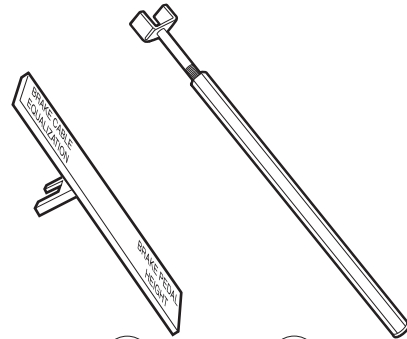
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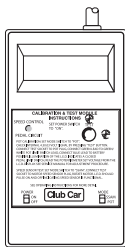
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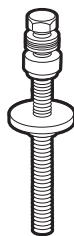
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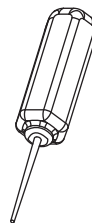
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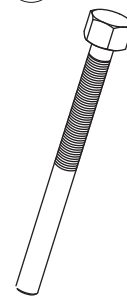
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MAINTENANCE AND SERVICE TOOLS

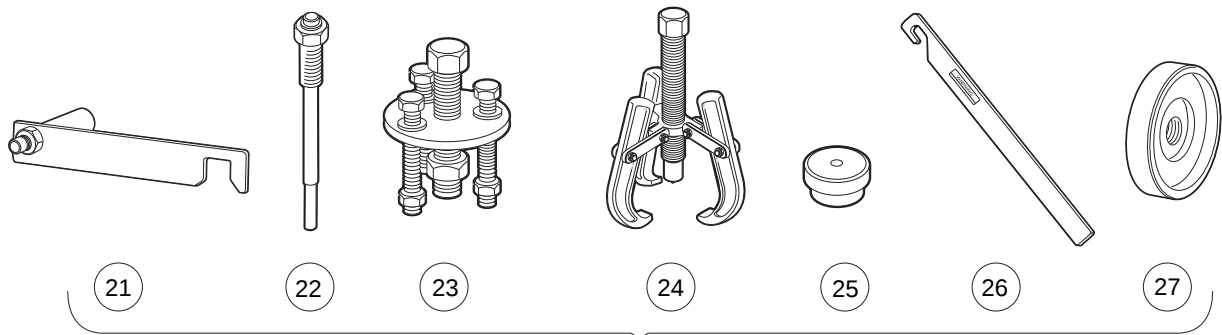
ITEM	PART NO.	DESCRIPTION	QTY DIESEL	QTY GAS	QTY ELEC	17 G E D
		1 2 3 4 The following tool list includes all tools available from Club Car for maintenance and service procedures for gasoline, electric, and/or diesel vehicles, both past and present models. Be sure to carefully examine the tool list for applicability to your vehicle before ordering.				
1	<u>101871001</u>	Accelerator Pedal Adjustment Tool		1	1	
2	<u>101813202</u>	Adhesive, Guide Ring, 3-Gram Tube			1	
3	<u>101641202</u>	Arbor		1		
4	<u>101831901</u>	Battery Discharge Machine, 36/48 Volt			1	
5	<u>1014305</u>	Battery Terminal Protector Spray	1	1	1	
6	<u>1011767</u>	Battery Thermometer	1	1	1	
7	<u>1016417</u>	Bearing and Oil Seal Remover Assembly	1	1	1	
8	<u>1016416</u>	Bearing Driver Set	1	1	1	
9	<u>1012811</u>	Bearing Puller	1	1	1	
10	<u>1012812</u>	Bearing Puller Wedge Attachment	1	1	1	
11	<u>1013582</u>	Brake Adjustment Tool (used only on vehicles with manually adjusted mechanical brakes)		1	1	
12	<u>102555501</u>	Brake Cable Release Tool	1	1	1	
13	<u>102249901</u>	Brake Pedal Adjustment Tool Kit (used for the Carryall Electric Industrial Truck only) (includes items 14 and 15).....			1	
14	****	Brake Pedal Adjustment Tool			1	
15	****	Brake Pedal Tension Tool			1	
16	<u>101887101</u>	Calibration Test Module			1	
17	<u>101808401</u>	Cam Installation Tool		1		
18	<u>102562401</u>	Charger Bezel Tool			1	
19	<u>102686101</u>	Clutch Removal Tool (for 4x4 vehicles)	1	1		
		Please refer to the maintenance and service manual for proper tool application. **** Special order item available upon request				

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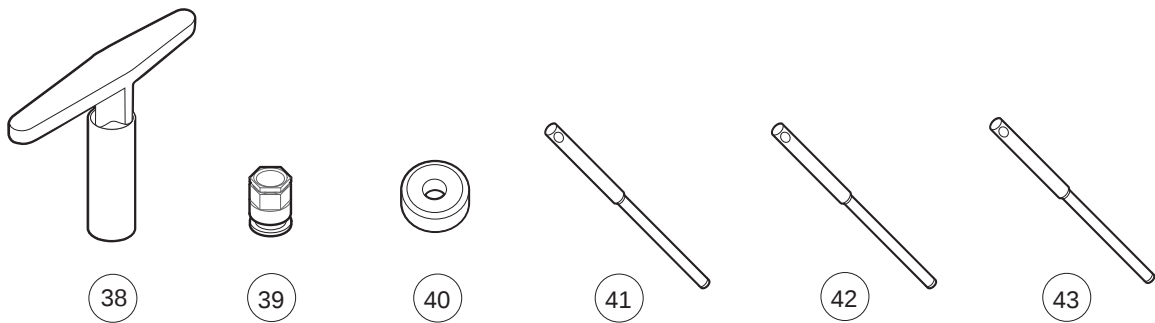
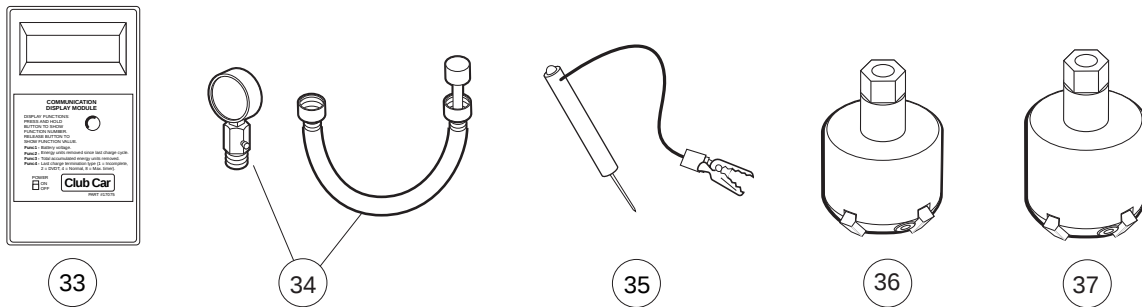
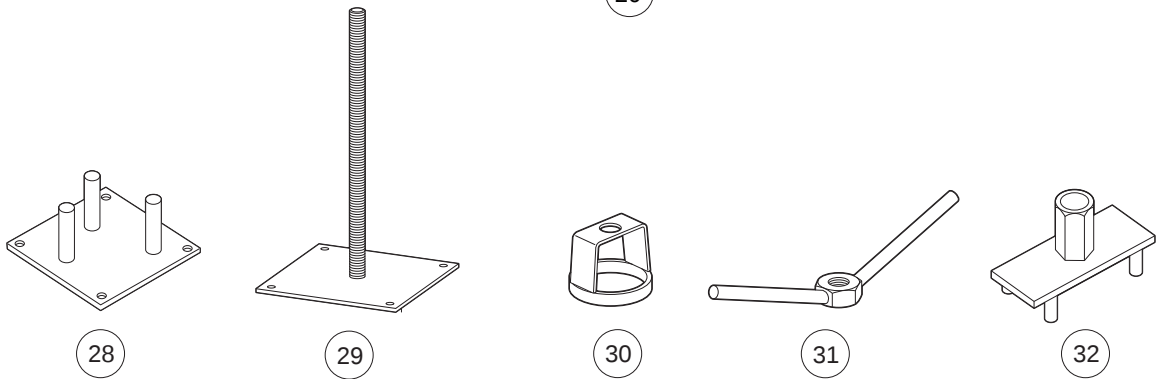
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MAINTENANCE AND SERVICE TOOLS, CONTINUED

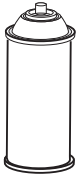
ITEM	PART NO.	DESCRIPTION	QTY DIESEL	QTY GAS	QTY ELEC	17 G E D
		1 2 3 4				
20	<u>1014510</u>	Clutch Tool Kit (includes items 21 - 27)		1		
21	<u>1014498</u>	Clutch Alignment Tool (for pre-unitized transaxle vehicles built prior to 1997 model year)		1		
22	<u>1014496</u>	Drive Clutch Puller (for Kawasaki engines only)		1		
23	<u>1014497</u>	Drive Clutch Hub Puller (for Kawasaki engines only)		1		
24	<u>1014508</u>	Driven Clutch Cam Puller (for Kawasaki engines only)		1		
25	<u>1014507</u>	Driven Clutch Puller Plug (for Kawasaki engines only)		1		
26	<u>1015524</u>	Drive Clutch Holder Tool Assembly (for Kawasaki engines only)		1		
27	<u>101809101</u>	Press Weldment (for Kawasaki engines only)		1		
28	<u>102601501</u>	Drive ClutchFixed Sheave Tool (for 4x4 vehicles)	1	1		
29	<u>102603501</u>	Driven Clutch Spring Compression Base (for use with items 30 and 31) (for 4x4 vehicles)	1	1		
30	<u>102605201</u>	Driven Clutch Spring Compression Collar (for use with items 29 and 31) (for 4x4 vehicles)	1	1		
31	<u>102606101</u>	Driven Clutch Spring Compression Nut (for use with items 29 and 30) (for 4x4 vehicles)	1	1		
32	<u>102607501</u>	Drive Clutch Spider Removal Tool (for 4x4 vehicles)	1	1		
33	101831801	Communication Display Module			1	
34	101641002	Compression Gauge and Adapter		1		
35	1011273	Continuity Tester		1	1	
36	<u>102773801</u>	Cutter, Valve Seat, #122		1		
37	<u>102773901</u>	Cutter, Valve Seat #115		1		
38	<u>102774101</u>	Wrench, T, #505.....		1		
39	<u>102774101</u>	Adapter, T-Wrench		1		
40	102675401	Cutter, Valve Seat, 60 Degree (requires item 51) (for Honda GX620 Gasoline Engines)		1		
41	<u>102774201</u>	Pilot, 6.6 MM		1		
42	<u>102774301</u>	Pilot, 6.62 MM.....		1		
43	<u>102774401</u>	Pilot, 6.65 MM.....		1		
		Please refer to the maintenance and service manual for proper tool application.				

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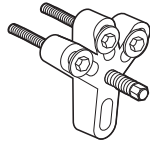
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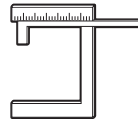
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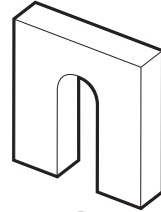
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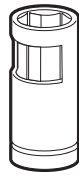
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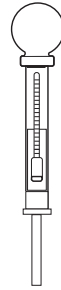
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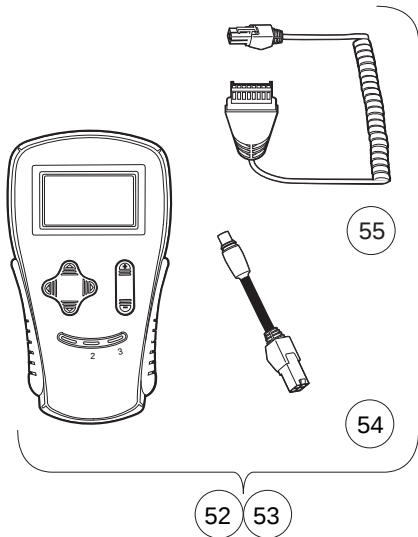
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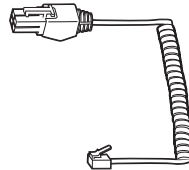


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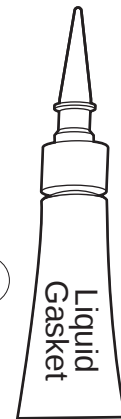


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MAINTENANCE AND SERVICE TOOLS, CONTINUED

ITEM	PART NO.	DESCRIPTION	QTY DIESEL	QTY GAS	QTY ELEC	17 G E D
		1 2 3 4				
44	<u>1012151</u>	Dry Moly Lubricant	1	1	1	
45	<u>1016627</u>	Flywheel Puller Kit (for Kawasaki Engines)		1		
46	<u>102669901</u>	Gauge, Carburetor Float Level (for Honda GX620 Gasoline Engines)		1		
47	<u>1016418</u>	Gear Yoke	1	1	1	
48	<u>101933101</u>	Governor Shaft Installation Tool (for Kawasaki Engine Vehicles)		1		
49	<u>102169401</u>	Hydraulic Brake Adjuster (for Turf/CA 272/472, Pioneer/XRT 1200, Bobcat 2100, HUV 4213)			1	
50	<u>1011478</u>	Hydrometer	1	1	1	
51	<u>1013593</u>	Internal Retaining Ring Pliers	1	1	1	
52	<u>102248803</u>	IQ Display Module (IQDM) Kit (IQ System and IQ Plus vehicles)			1	
		(includes items 54 and 55)				
53	<u>102248804</u>	IQ Display Module (IQDM-P) Kit (IQ System and IQ Plus vehicles)			1	
		(includes items 54 and 55)				
54	<u>102251501</u>	Adaptor, Cable			1	
55	<u>102241502</u>	IQDM Series 2 Cable			1	
56	<u>102241501</u>	IQDM Series 1 Cable (replacement)			1	
57	<u>101928701</u>	Liquid Gasket (transaxle case)	1	1	1	
58	<u>102243402</u>	Moly-Teflon Lubricant (4-oz. (113-gram) tube)			1	
59	<u>101997201</u>	Paint, Touch-Up – Beige*		1	1	
59	<u>101997207</u>	Paint, Touch-Up – Black*		1	1	
59	<u>101997212</u>	Paint, Touch-Up – Burgundy*		1	1	
59	<u>101997211</u>	Paint, Touch-Up – Classic Blue (Navy)*		1	1	
59	<u>101997205</u>	Paint, Touch-Up – Dark Gray*	1	1	1	
59	<u>101997209</u>	Paint, Touch-Up – Dark Green*	1	1	1	
59	<u>101997204</u>	Paint, Touch-Up – Gray*	1	1	1	
59	<u>101997203</u>	Paint, Touch-Up – Red*	1	1	1	
59	<u>101997206</u>	Paint, Touch-Up – Royal Blue (Pacific Blue)*		1	1	
59	<u>101997202</u>	Paint, Touch-Up – White*	1	1	1	
60	<u>102562301</u>	Paint, Precedent Underbody – Gray		1	1	
61	<u>102587201</u>	Paint Pen, Touch-Up, Precedent Underbody – Black		1	1	
Please refer to the maintenance and service manual for proper tool application. * Item 59 is not for use on Surlyn[®] body material, which is used on Precedent vehicles.						

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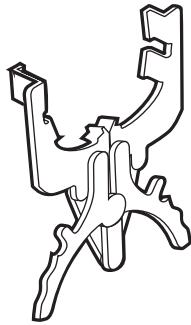
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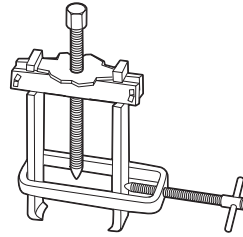
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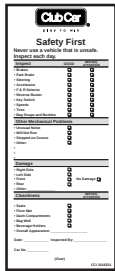
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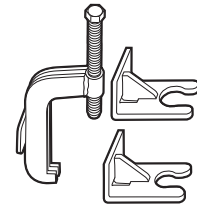
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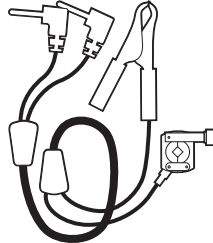
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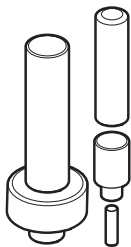
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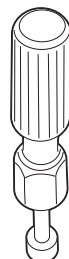
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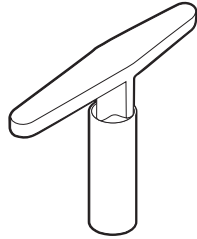
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MAINTENANCE AND SERVICE TOOLS, CONTINUED

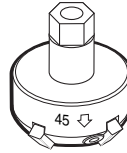
ITEM	PART NO.	DESCRIPTION	QTY DIESEL	QTY GAS	QTY ELEC	17
		1 2 3 4				G
62	<u>1016414</u>	Piston Ring Compressor Kit (FE290, FE350 and FE400 engines)		1		E
63	<u>1016415</u>	Piston Ring Pliers (for Kawasaki Engines)		1		D
64	<u>102668801</u>	Puller, Special Use (for Kubota D722 Diesel Engines)	1			
65	<u>1012549</u>	Retaining Ring Pliers, 45° External	1	1	1	
66	<u>1012560</u>	Retaining Ring Pliers, 90° Internal	1	1	1	
67	<u>101823101</u>	Safety First Card (50 per pack)	1	1	1	
68	<u>1012809</u>	Seal Puller	1	1	1	
69	<u>102330901</u>	Spanner Wrench (for coil over shock front suspension vehicles only)	1	1		
70	<u>1014264</u>	Steering Column Bearing Press Tool		1	1	
71	<u>1014259</u>	Steering Column Retaining Ring Tool		1	1	
72	<u>102061201</u>	Steering Wheel Puller Tool	1	1	1	
73	<u>AM10753</u>	Tachometer (includes gasoline engine pick up lead only)	1	1		
74	<u>AM10771</u>	Tachometer Diesel Probe (for use with item 73)	1			
75	<u>1014162</u>	Transaxle Axle Seal Tool		1		
76	<u>1014161</u>	Transaxle Pinion Seal Tool		1		
77	<u>1014115</u>	Transmission Tool Kit		1		
78	<u>101611003</u>	Tune-Up Kit, All OHV (for FE290, FE350, FE400 only) (includes air filter, spark plug, oil filter, fuel filters) (not shown)		1		
79	<u>AM11804</u>	Tune-Up Kit, Gx620 (for Honda Engines) (includes air filter, spark plug, oil filter, fuel filters) (not shown)		1		
80	<u>AM11805</u>	Tune-Up Kit, D722 (for Kubota Engines) (includes air filter, oil filter, fuel filters, water separator filter) (not shown)	1			
81	<u>AM1220301</u>	Tune-Up Kit, Precedent (for FE290/350 Engines) (includes air filter, spark plug, oil filter, fuel filters) (not shown)		1		
82	<u>AM1232401</u>	Tune-Up Kit, FH680D (for Kawasaki V-Twin Engines) (includes oil filter, fuel filter, air filter, and spark plugs) (not shown)		1		
83	<u>1016413</u>	Valve Clearance Adjuster Screw Holder (for FE290 engines only)		1		
84	<u>102674601</u>	Valve Guide Driver (for Honda GX620 Gasoline Engines)		1		
85	<u>101641201</u>	Valve Guide Reamer (FE290, FE350, and FE400 only)		1		
86	<u>102674401</u>	Valve Guide Reamer, 6.6 mm (for Honda GX620 Gasoline Engines)		1		



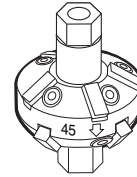
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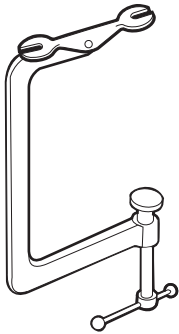
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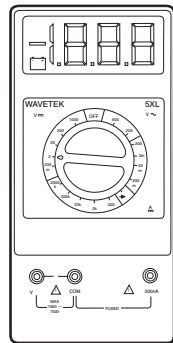
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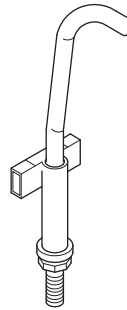
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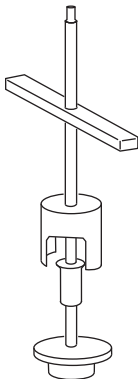
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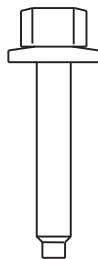
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MAINTENANCE AND SERVICE TOOLS, CONTINUED

ITEM	PART NO.	DESCRIPTION	QTY DIESEL	QTY GAS	QTY ELEC	17
		1 2 3 4				G
87	<u>1016552</u>	Valve Seat Cutter Guide		1		E
88	<u>1016551</u>	Valve Seat Cutter T-Wrench		1		D
89	<u>1016553</u>	Valve Seat Cutter, 45° (32 mm diameter) (for FE290 engines only)		1		
90	<u>1016554</u>	Valve Seat Cutter, 45°/30° (35 mm diameter)		1		
91	<u>101641101</u>	Valve Spring Compressor		1		
92	<u>1011480</u>	Volt Ohm Meter	1	1	1	
93	<u>102570401</u>	Tool, Tensioning, Starter Generator (For Precedent vehicles)		1		
94	<u>103601401</u>	Puller, Drive Clutch, XRT 950*		1		
95	<u>103601701</u>	Tool, Disassembly, Driven Clutch, XRT 950		1		
96	<u>103600501</u>	Screw, Driven Clutch Disassembly, M6, XRT 950		1		
*Note: The XRT 950 Drive Clutch Puller requires the use of Screw, Driven Clutch Disassembly, CCI Part Number <u>103600501</u>.						

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