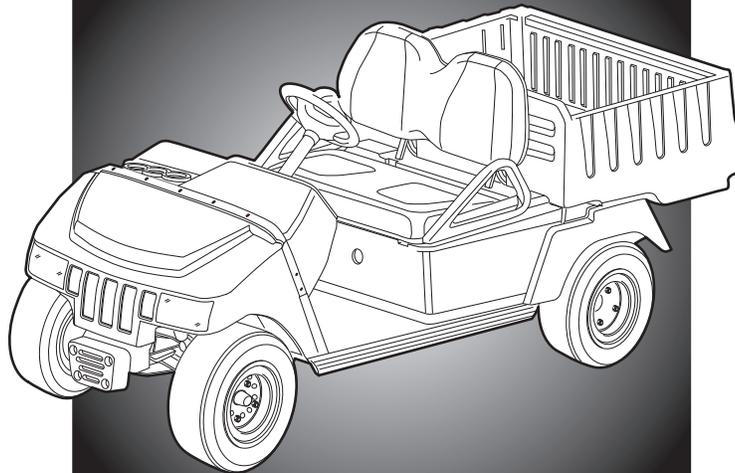


**Club Car**

®

**2006-2007  
ILLUSTRATED  
PARTS LIST**



**CARRYALL 232  
GASOLINE AND ELECTRIC VEHICLES**

MANUAL NUMBER 103209029  
EDITION CODE 1206B0307A



# USING THE ILLUSTRATED PARTS LIST

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## **⚠ 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 2006 and 2007 Carryall 232 gasoline and electric vehicles.

The manual is divided into 16 sections. Sections 1 through 15 pertain to the vehicles, and Section 16 pertains to tools that are used on all Club Car products. Note that there are flags on the outside edge of each page. The first flag contains the section number of which that page is a part. The other flags contain the letters G or E, signifying that the page pertains to either the gasoline vehicle, the electric vehicle, or both.

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 indention 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 Club Car contact by visiting our web site at [www.clubcar.com](http://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 3281 or 3854.



P. O. Box 204658  
Augusta, Georgia 30917-4658 USA  
Telephone 706-863-3000  
Service Parts Fax 706-855-7413  
[www.clubcar.com](http://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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This manual effective January 31, 2006.

*2006-2007 Carryall 232 Gas & Electric Vehicle Illustrated Parts List*

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## SECTION i – INDEX

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# BODY AND TRIM

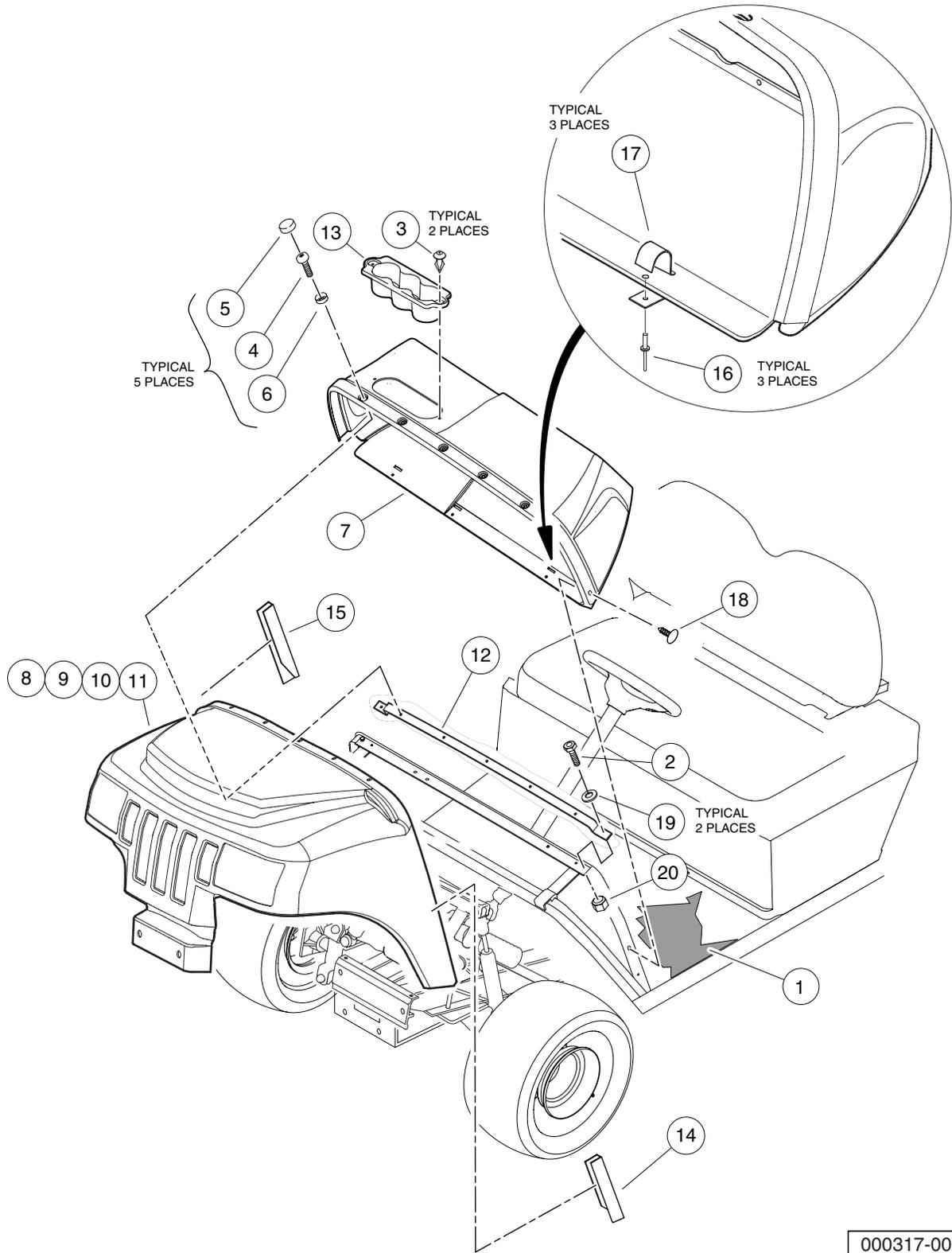
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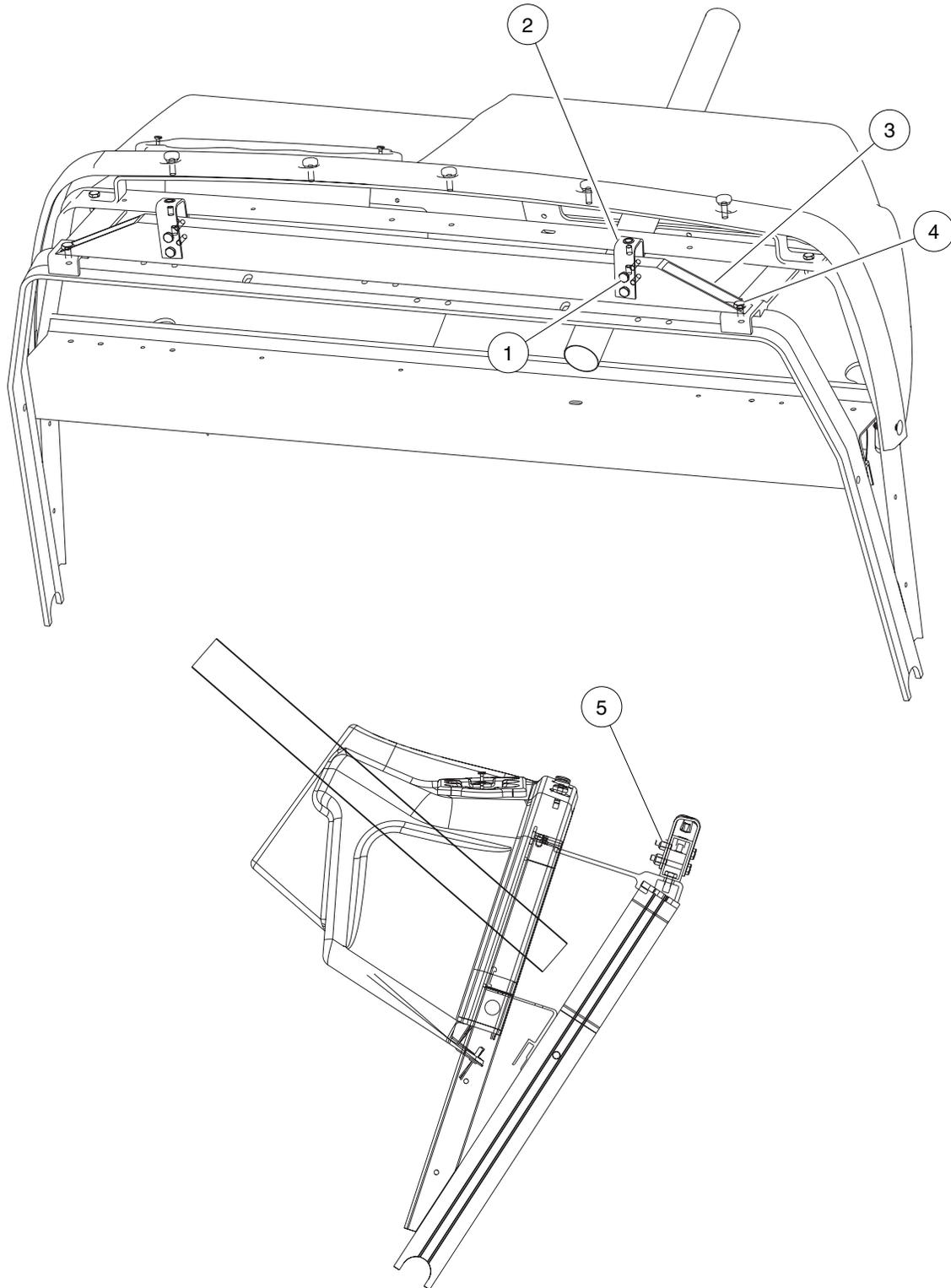
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# FRONT BODY

| ITEM | PART NO.  | DESCRIPTION                             | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4                                 |     |
| 1    | 101503202 | Floormat .....                          | 1   |
| 2    | 101954301 | Screw, 1/4-20 X 0.75 Hex-Head Cap ..... | 2   |
| 3    | 102025701 | Screw, Tuflok Panel, 1/4 .....          | 2   |
| 4    | 102025801 | Screw, 1/4-20 X .75 Torx Pn Hd .....    | 5   |
| 5    | 102045001 | Cap, 1/4" Plastic Screw Head .....      | 5   |
| 6    | 102048401 | Washer, 1/4 ID Scalloped Plastic .....  | 5   |
| 7    | 102766701 | Dash .....                              | 1   |
| 8    | 102778501 | Cowl, Red .....                         | 1   |
| 9    | 102778502 | Cowl, Green .....                       | 1   |
| 10   | 102778503 | Cowl, Camouflage .....                  | 1   |
| 11   | 102778504 | Cowl, Classic Blue .....                | 1   |
| 12   | 102778601 | Support, Upper Cowl .....               | 1   |
| 13   | 102796701 | Object Holder .....                     | 1   |
| 14   | 102822001 | Cowl Cover, Driver-Side .....           | 1   |
| 15   | 102822002 | Cowl Cover, Passenger-Side .....        | 1   |
| 16   | 102828701 | Rivet .....                             | 10  |
| 17   | 102857401 | Clip, Dash .....                        | 3   |
| 18   | 102914301 | Push Pin, Black .....                   | 2   |
| 19   | 332       | Washer, 1/4 Type A Narrow Flat .....    | 2   |
| 20   | 8233      | Locknut, 1/4-20 Nylon Insert .....      | 2   |

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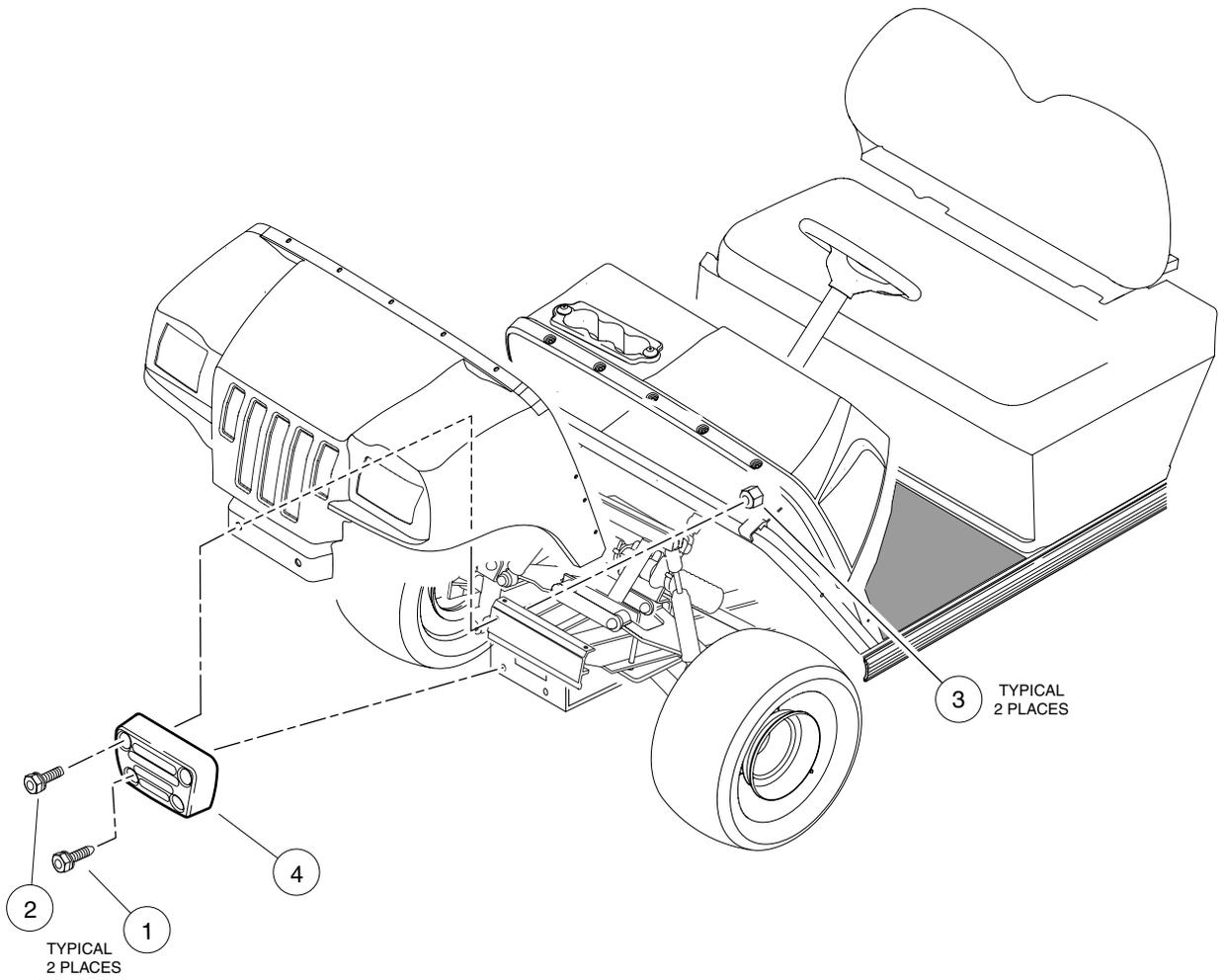
000582-001

# CANOPY SUPPORT SYSTEM

| ITEM | PART NO.  | DESCRIPTION                              | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4                                  |     |
| 1    | 1013509   | Screw, 1/4-20 X 1.75 Hx Hd Cap .....     | 4   |
| 2    | 102823901 | Asm, Bracket, Cpy Strut Spt .....        | 2   |
| 3    | 102858301 | Asm, Tube, Strut Spt .....               | 1   |
| 4    | 7173      | Screw, 5/16-18 X 0.75 Hex-Head Cap ..... | 2   |
| 5    | 8233      | Locknut, 1/4-20 Nylon Insert .....       | 4   |

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# BUMPER

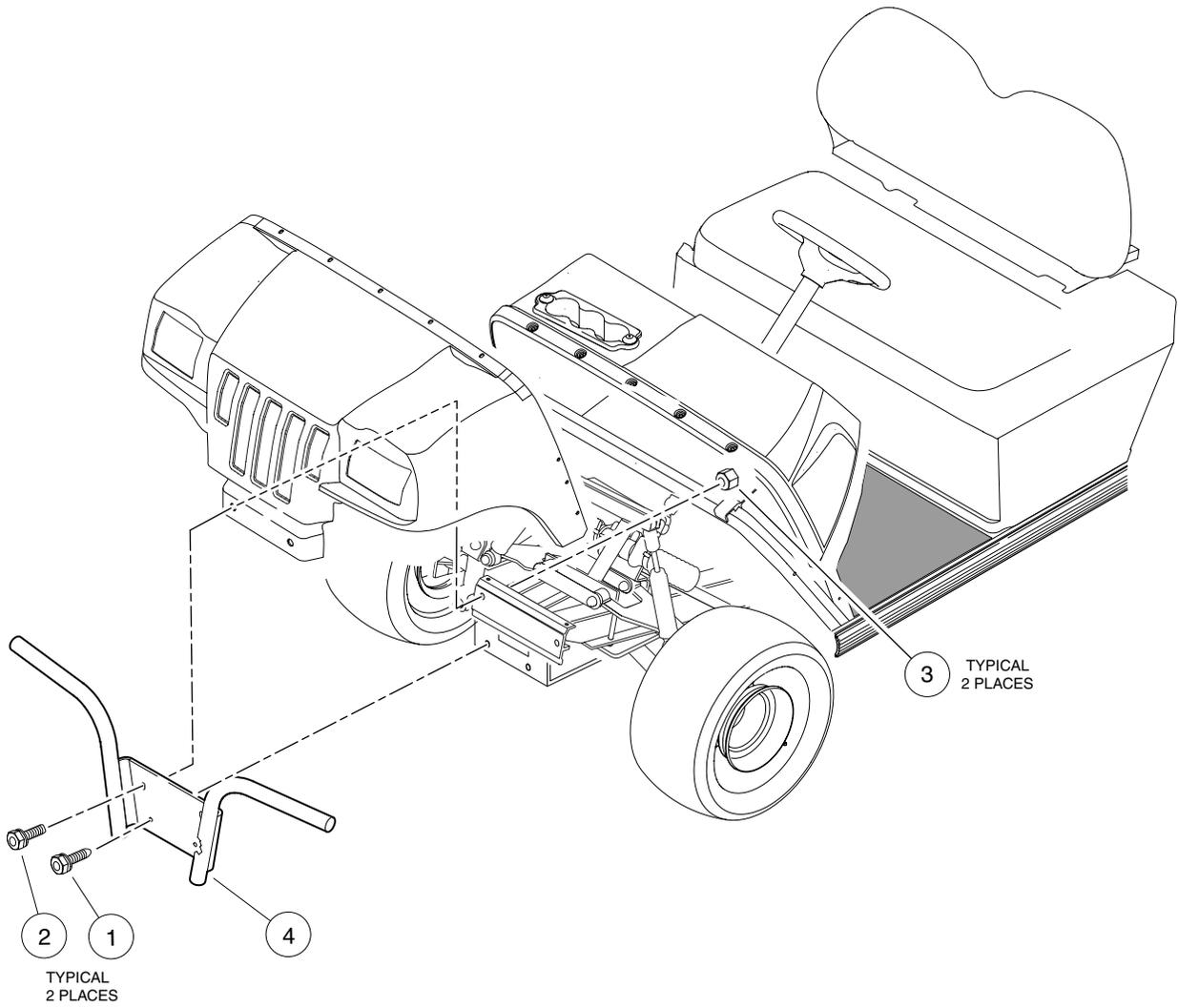
| ITEM | PART NO.  | DESCRIPTION                           | QTY |
|------|-----------|---------------------------------------|-----|
|      |           | 1 2 3 4                               |     |
| 1    | 102289002 | Screw, M8 X 1.25 X 30 Tri, Blk .....  | 2   |
| 2    | 102298240 | Bolt, Flange Head, M8-1.25 X 40 ..... | 2   |
| 3    | 102618601 | Lock Nut, Flg M8 X 1.25 Nylon .....   | 2   |
| 4    | 102830501 | Bumper, Cast .....                    | 1   |

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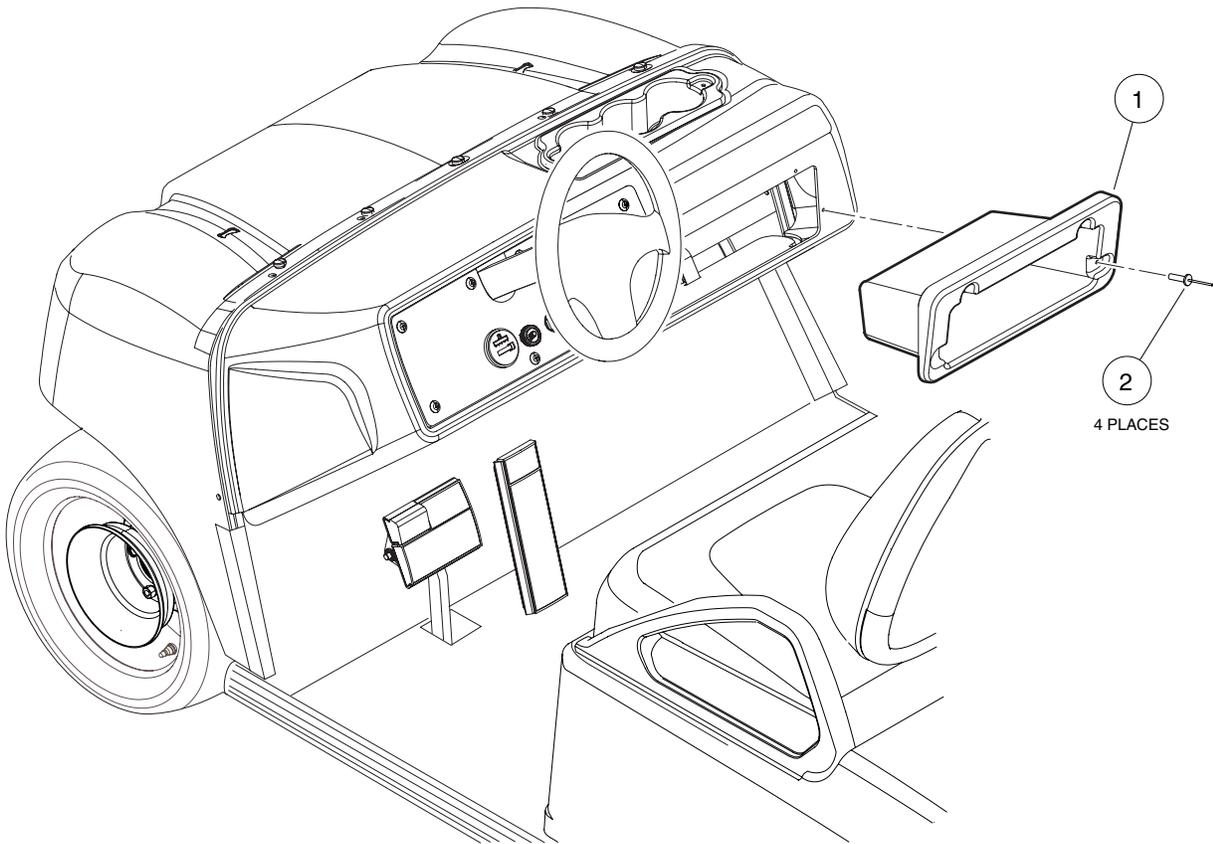
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# BRUSH GUARD (OPTIONAL)

| ITEM | PART NO.  | DESCRIPTION                           | QTY |
|------|-----------|---------------------------------------|-----|
|      |           | 1 2 3 4                               |     |
| 1    | 102289002 | Screw, M8 X 1.25 X 30 Tri, Blk .....  | 2   |
| 2    | 102298240 | Bolt, Flange Head, M8-1.25 X 40 ..... | 2   |
| 3    | 102618601 | Lock Nut, Flg M8 X 1.25 Nylon .....   | 2   |
| 4    | 102830201 | Guard, Brush .....                    | 1   |

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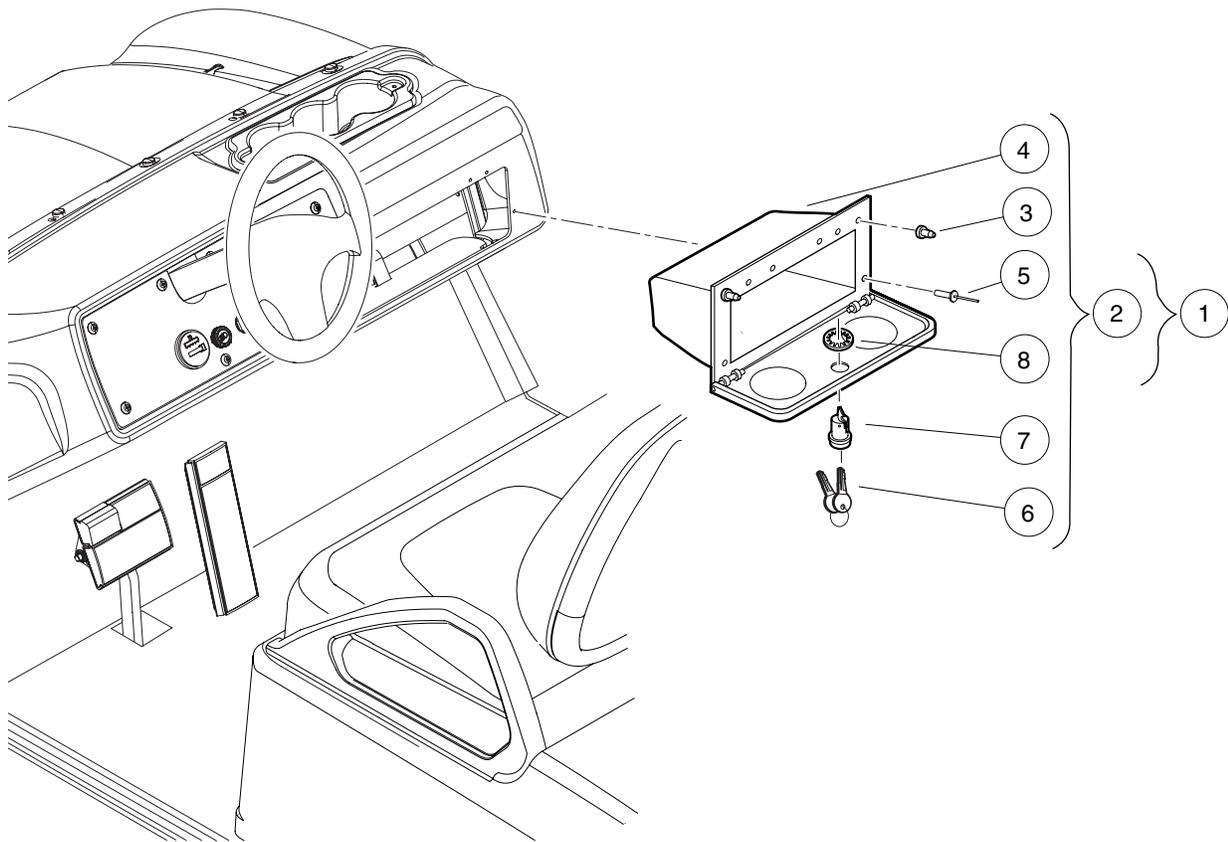
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# DASH BOX

| ITEM | PART NO.  | DESCRIPTION                | QTY |
|------|-----------|----------------------------|-----|
| 1    | 102810301 | 1 2 3 4<br>Box, Dash ..... | 1   |
| 2    | 102828701 | Rivet .....                | 4   |

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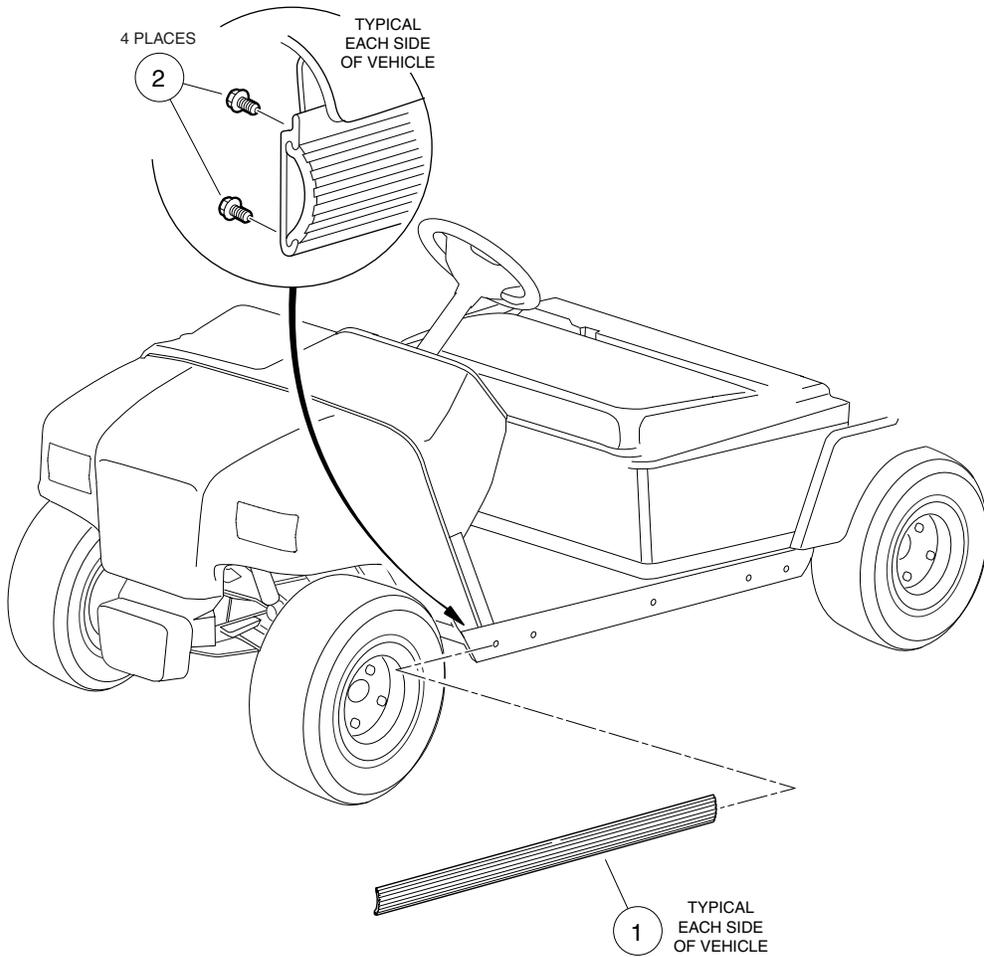
000359-001

# GLOVE BOX (OPTIONAL)

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 102959401 | Glove Box Lock / Key Kit (includes item 2) .....             | 1   |
| 2    | 102959301 | Asm, Glove Box Lock / Key (includes items 3 through 8) ..... | 1   |
| 3    | 1010436   | Bumper, Rubber .....   | 2   |
| 4    | 102796501 | Glove Box .....  | 1   |
| 5    | 102828701 | Rivet .....  | 6   |
| 6    | N/A       | Key .....  | 2   |
| 7    | N/A       | Lock .....   | 1   |
| 8    | N/A       | Nut .....  | 1   |

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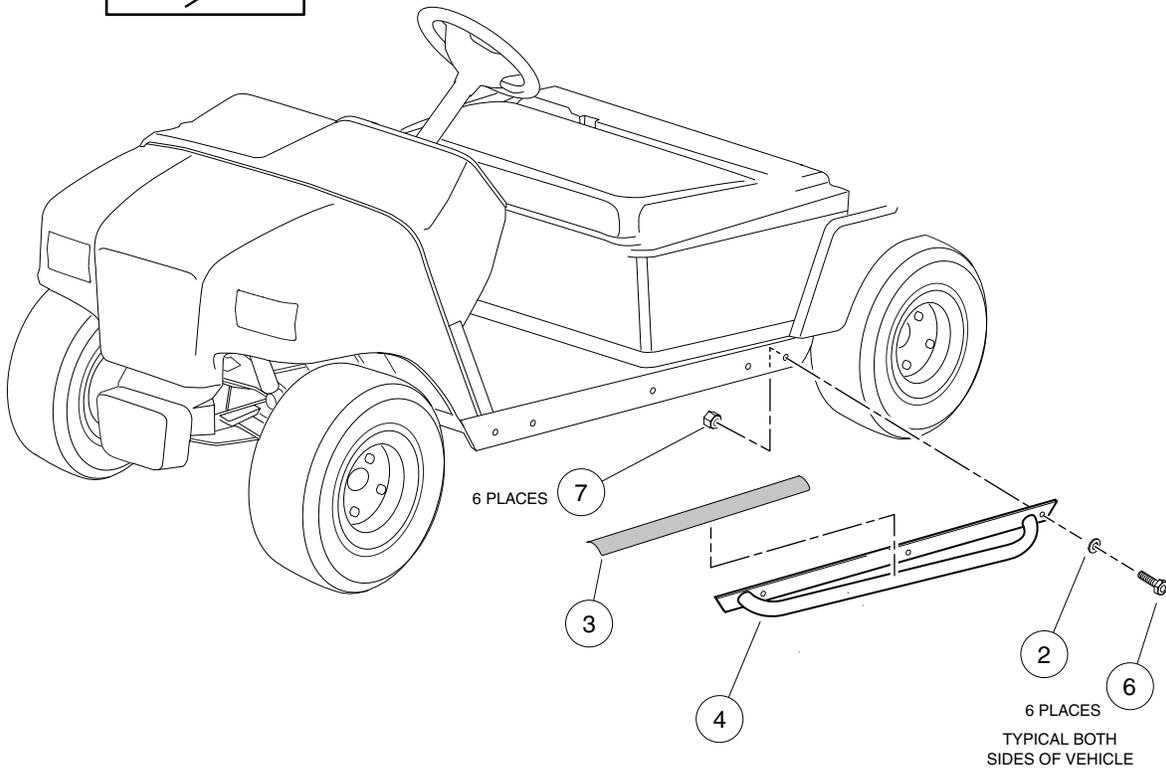
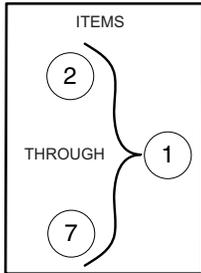


000361-002

# SIDE TRIM

| ITEM | PART NO.  | DESCRIPTION                                 | QTY |
|------|-----------|---|-----|
| 1    | 1013983   | Bumper, Side Trim .....                     | 2   |
| 2    | 102310701 | Screw, #8-18 x 0.375, Hex-Head Washer ..... | 8   |

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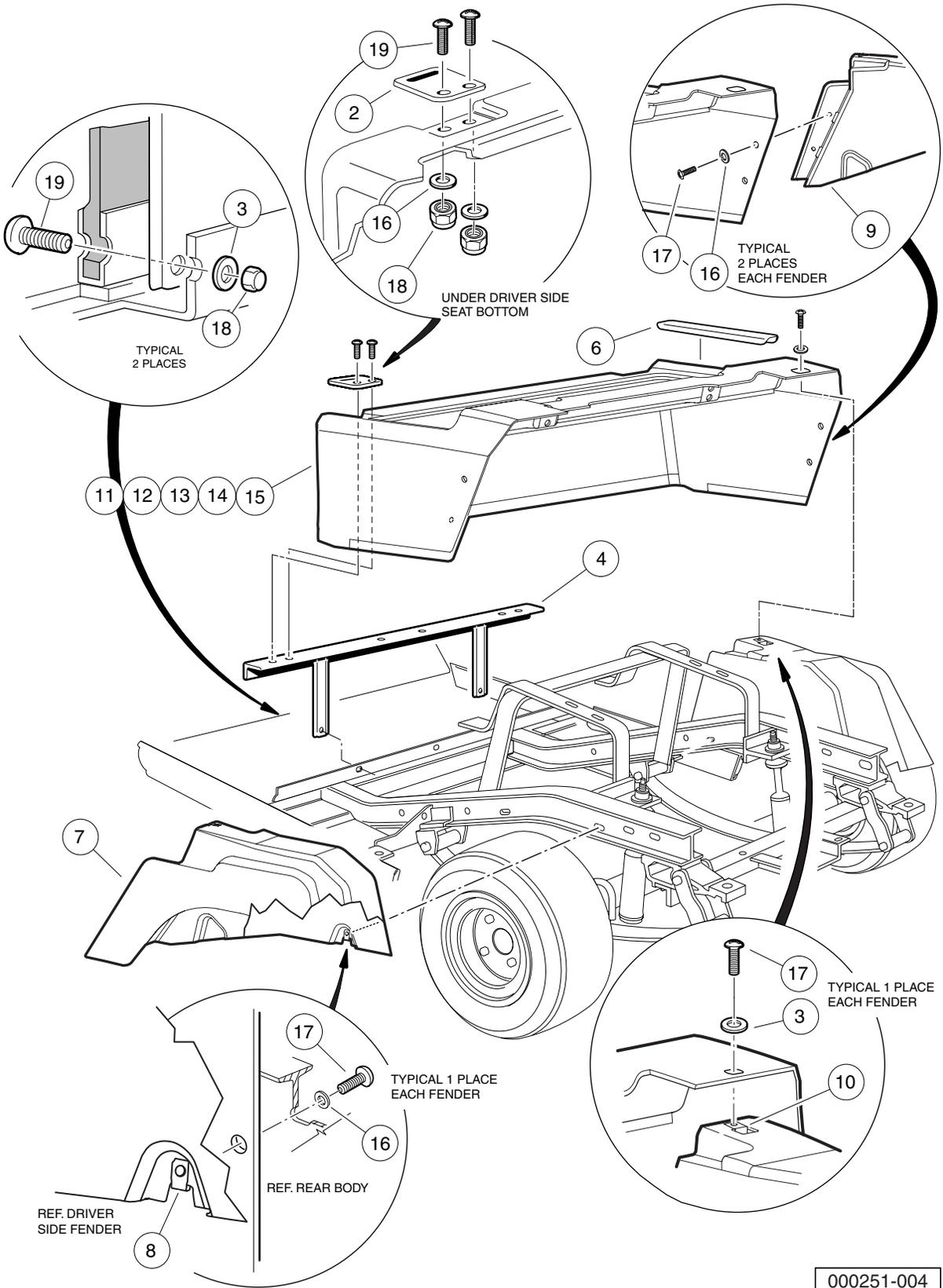
000360-002

# NERF BAR (OPTIONAL)

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 102829802 | Kit, Nerf Bar (black) (includes items 2 through 7) ..... | 1   |
| 2    | 1011990   | Washer, 3/8 Flat .....                                   | 6   |
| 3    | 102355102 | Tape, Non-skid .....                                     | 2   |
| 4    | 102829703 | Nerf Bar Assy, Driver .....                              | 1   |
| 5    | 102829704 | Nerf Bar Assy, Passngr .....                             | 1   |
| 6    | 320       | Screw, 3/8-16 X 1.00 Hex-Head Cap .....                  | 6   |
| 7    | 8754      | Locknut, 3/8-16 Hex .....                                | 6   |

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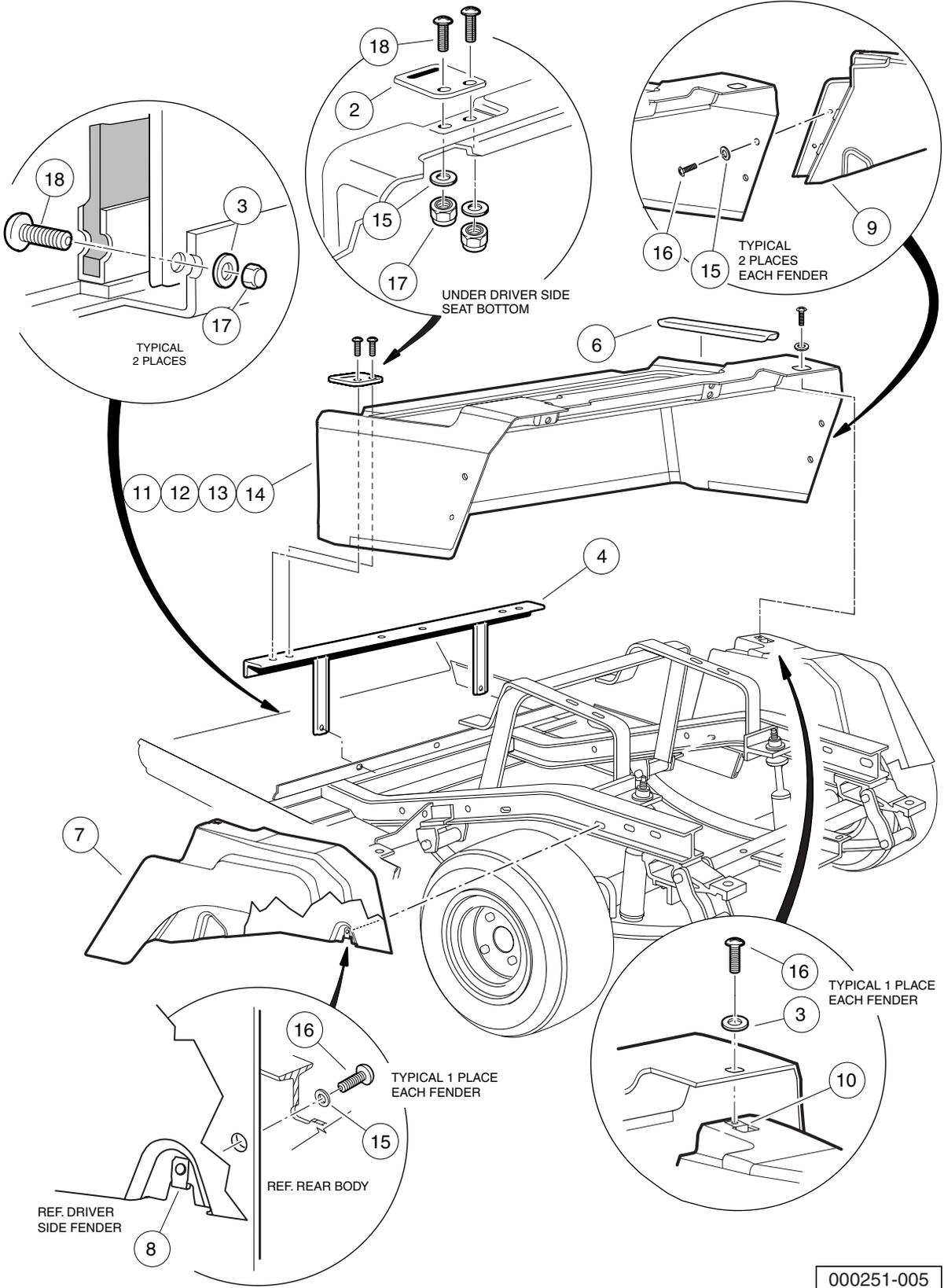


# REAR BODY AND FENDER – GASOLINE VEHICLE

| ITEM | PART NO.  | DESCRIPTION                                     | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 1010993   | Body Kick Plate .....                           | 1   |
| 2    | 1012412   | Body, Hinge Plate .....                         | 2   |
| 3    | 1014306   | Washer, 1/4" Type B Flat .....                  | 8   |
| 4    | 1017141   | Body Support Front .....                        | 1   |
| 5    | 101855801 | Cable Retainer .....                            | 1   |
| 6    | 102221201 | Wear Pad .....                                  | 2   |
| 7    | 102777601 | Fender, Driver Side (includes item 8) .....     | 1   |
| 8    | 1016952   | U-Nut, 1/4-20 .....                             | 4   |
| 9    | 102777602 | Fender, Passenger Side (includes item 10) ..... | 1   |
| 10   | 1016952   | U-Nut, 1/4-20 .....                             | 4   |
| 11   | 102796801 | Body, Rear, Gas, Red .....                      | 1   |
| 12   | 102796802 | Body, Rear, Gas, Orange .....                   | 1   |
| 13   | 102796803 | Body, Rear, Gas, Green .....                    | 1   |
| 14   | 102796804 | Body, Rear, Gas, Classic Blue .....             | 1   |
| 15   | 102796805 | Body, Rear, Gas, Olive Green .....              | 1   |
| 16   | 332       | Washer, 1/4 Type A Narrow Flat .....            | 6   |
| 17   | 7847      | Screw, 1/4-20 X 0.75 Hex-Head Cap .....         | 8   |
| 18   | 8233      | Locknut, 1/4-20 Nylon Insert .....              | 6   |
| 19   | 8251      | Screw, 1/4-20 X 1.0 Truss-Head Machine .....    | 6   |

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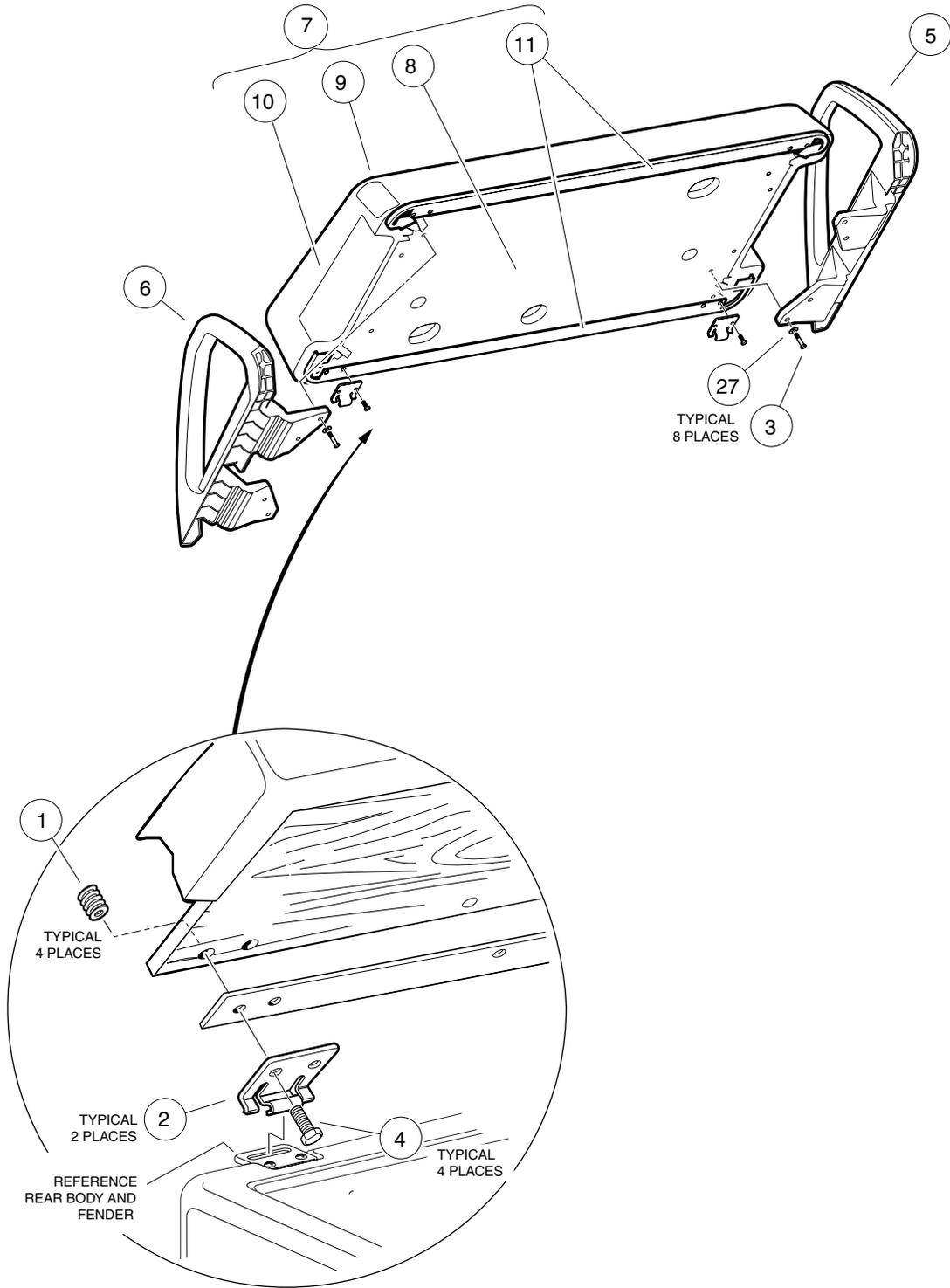
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# REAR BODY AND FENDER – ELECTRIC VEHICLE

| ITEM | PART NO.  | DESCRIPTION                                     | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 1010993   | Body Kick Plate .....                           | 1   |
| 2    | 1012412   | Body, Hinge Plate .....                         | 2   |
| 3    | 1014306   | Washer, 1/4" Type B Flat .....                  | 8   |
| 4    | 1017141   | Body Support Front .....                        | 1   |
| 5    | 101855801 | Cable Retainer .....                            | 1   |
| 6    | 102221201 | Wear Pad .....                                  | 2   |
| 7    | 102777601 | Fender, Driver Side (includes item 8) .....     | 1   |
| 8    | 1016952   | U-Nut, 1/4-20 .....                             | 4   |
| 9    | 102777602 | Fender, Passenger Side (includes item 10) ..... | 1   |
| 10   | 1016952   | U-Nut, 1/4-20 .....                             | 4   |
| 11   | 102818301 | Body, Rear, Elect, Cut, Red .....               | 1   |
| 12   | 102818302 | Body, Rear, Elect, Cut, Org .....               | 1   |
| 13   | 102818303 | Body, Rear, Elect, Cut, Grn .....               | 1   |
| 14   | 102818305 | Body, Rear, Ele, Cut, Oliv Grn .....            | 1   |
| 15   | 332       | Washer, 1/4 Type A Narrow Flat .....            | 6   |
| 16   | 7847      | Screw, 1/4-20 X 0.75 Hex-Head Cap .....         | 8   |
| 17   | 8233      | Locknut, 1/4-20 Nylon Insert .....              | 6   |
| 18   | 8251      | Screw, 1/4-20 X 1.0 Truss-Head Machine .....    | 6   |

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# FRONT SEAT BOTTOM AND ARMRESTS

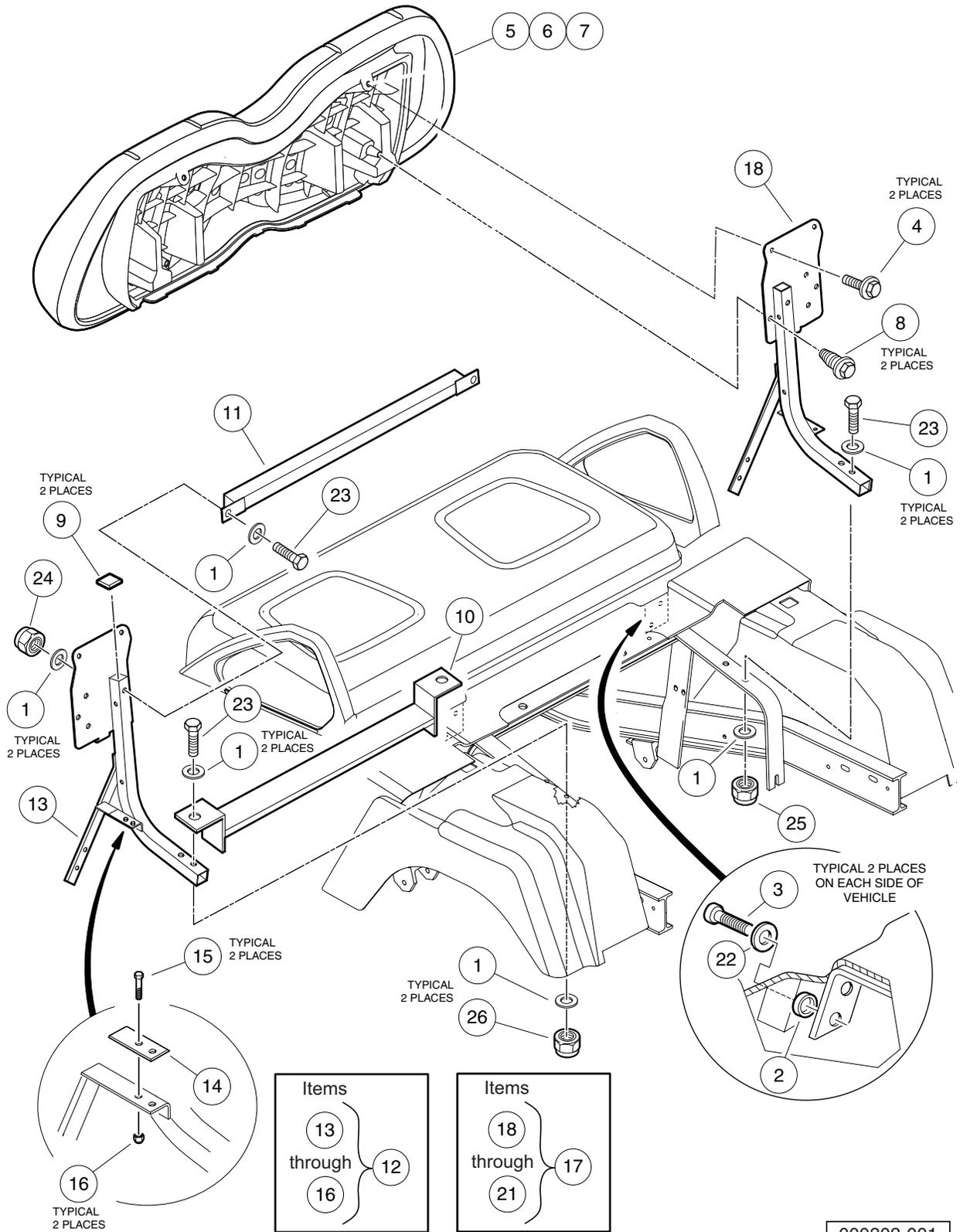
| ITEM   | PART NO.  | DESCRIPTION  | QTY |
|--|-----------|--|-----|
|  |           | 1 2 3 4  |     |
| 1  | 1010543   | Insert, Wood .....   | 4   |
| 2  | 1011652   | Hinge Plate .....  | 2   |
| 3  | 1016916   | Screw, 1/4-20 X 1.50 Hex-Head Cap .....                          | 8   |
| 4  | 101954301 | Screw, 1/4-20 X 0.75 Hex-Head Cap .....                          | 4   |
| 5  | 101985502 | Armrest, Passenger (right) .....                                 | 1   |
| 6  | 101987602 | Armrest, Driver (left) .....                                     | 1   |
| 7  | 102174201 | Seat Bottom Assembly, Buff (includes items 8 through 11) .....   | 1   |
| 8  | N/A       | Plywood Assy .....   | 1   |
| 9  | 101998211 | Vinyl Cover, Seat Bottom, Buff .....                             | 1   |
| 10   | N/A       | Foam, Seat .....   | 1   |
| 11   | 101998501 | Gasket, Seat .....   | 2   |
| 12   | 102174202 | Seat Bottom Assembly, White (includes items 13 through 16) ..... | 1   |
| 13   | N/A       | Plywood Assy .....   | 1   |
| 14   | 101998212 | Vinyl Cover, Seat Bottom, White .....                            | 1   |
| 15   | N/A       | Foam, Seat .....   | 1   |
| 16   | 101998501 | Gasket, Seat .....   | 2   |
| 17   | 102174204 | Seat Bottom Assembly, Black (includes items 18 through 21) ..... | 1   |
| 18   | N/A       | Plywood Assy .....   | 1   |
| 19   | 101998214 | Vinyl Cover, Seat Bottom, Black .....                            | 1   |
| 20   | N/A       | Foam, Seat .....   | 1   |
| 21   | 101998501 | Gasket, Seat .....   | 2   |
| 22   | 102174205 | Seat Bottom Assembly, Gray (includes items 23 through 26) .....  | 1   |
| 23   | N/A       | Plywood Assy .....   | 1   |
| 24   | 101998215 | Vinyl Cover, Seat Bottom, Gray .....                             | 1   |
| 25   | N/A       | Foam, Seat .....   | 1   |
| 26   | 101998501 | Gasket, Seat .....   | 2   |
| 27   | 332       | Washer, 1/4 Type A Narrow Flat .....                             | 8   |
| Note: Sub-components contained in items 12, 17, and 22 are the same as those shown for item 7, except for the vinyl seat covers. |           |  |     |

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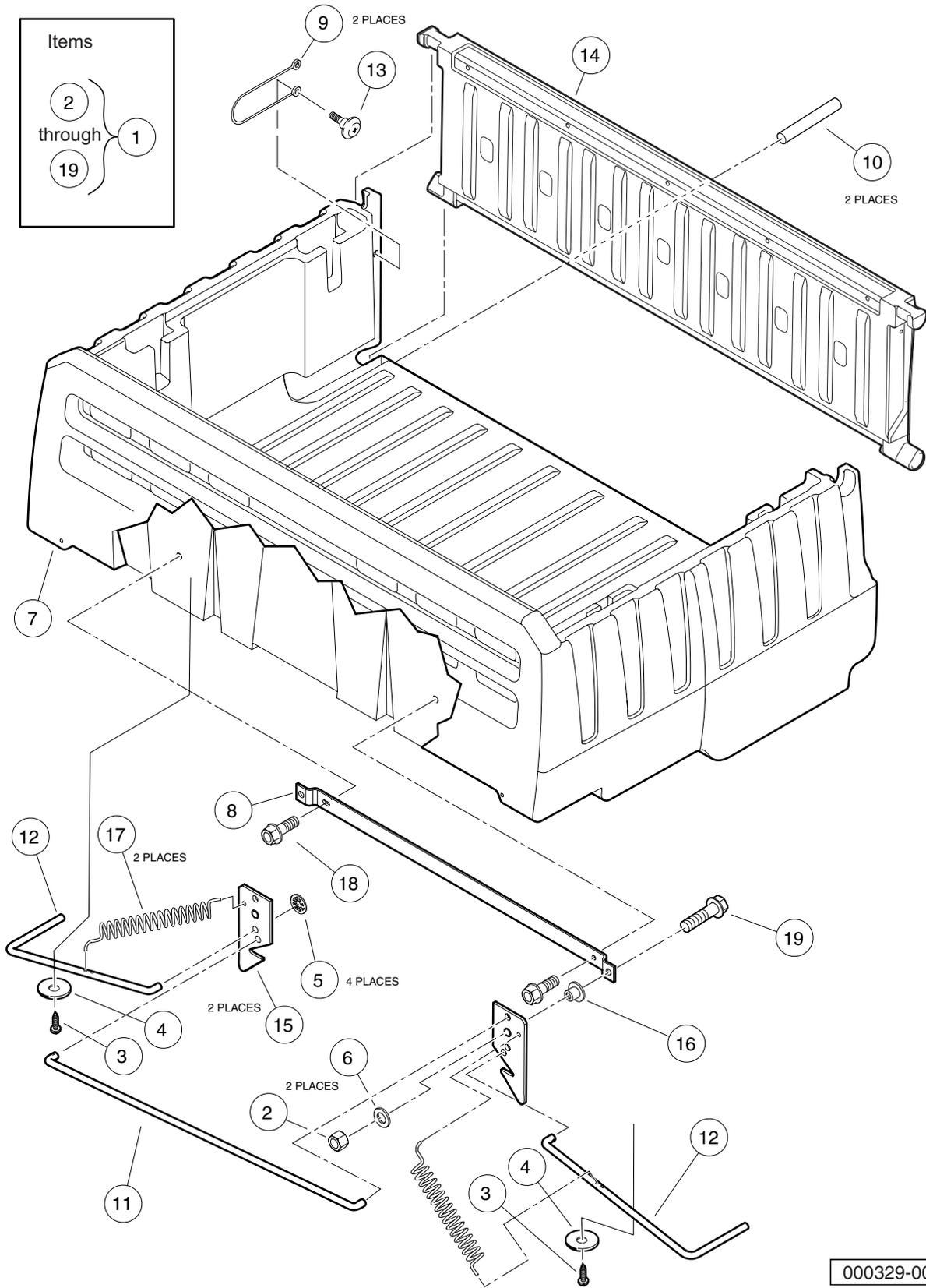
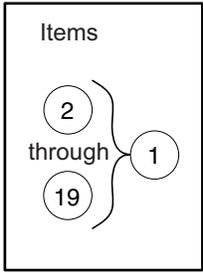
000302-001

# SEAT BACK

| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 1011931   | Washer, 1/4 Flat .....  | 12  |
| 2    | 1017774   | Body Spacer .....   | 4   |
| 3    | 101910401 | Screw, 5/16-18 X 1.25 Thrd Frm .....                                  | 4   |
| 4    | 102296530 | Screw - M6 X 1.0 X 30 Sems .....                                      | 2   |
| 5    | 102503201 | Backrest Asm - Beige .....  | 1   |
| 6    | 102503202 | Backrest Asm - White .....  | 1   |
| 7    | 102503214 | Backrest Assembly, Gray .....   | 1   |
| 8    | 102544201 | Screw, M6 Hex .....   | 2   |
| 9    | 102581201 | Plug, Square - 25.4 mm .....  | 2   |
| 10   | 102796101 | Weldment, Bed Support .....   | 1   |
| 11   | 102816201 | Seat Support, Cross Brace .....                                       | 1   |
| 12   | 102913101 | Seat Support W/striker, Drv (includes items 13 through 16) .....      | 1   |
| 13   | 102796301 | Seat Support, Driver-Side .....                                       | 1   |
| 14   | 102840301 | Striker Plate .....   | 1   |
| 15   | 7847      | Screw, 1/4-20 X 0.75 Hex-Head Cap .....                               | 2   |
| 16   | 8233      | Locknut, 1/4-20 Nylon Insert .....                                    | 2   |
| 17   | 102913102 | Support, Seat, Right (passenger) (includes items 18 through 21) ..... | 1   |
| 18   | 102796302 | Seat Support, Passenger-Side .....                                    | 1   |
| 19   | 102840301 | Striker Plate .....   | 1   |
| 20   | 7847      | Screw, 1/4-20 X 0.75 Hex-Head Cap .....                               | 2   |
| 21   | 8233      | Locknut, 1/4-20 Nylon Insert .....                                    | 2   |
| 22   | 1241      | Washer, 5/16 Type A Flat .....  | 4   |
| 23   | 7311      | Screw, 1/4-20 X 2.00 Hex-Head Cap .....                               | 6   |
| 24   | 7473      | Locknut, 5/16-18 Nylon Insert .....                                   | 2   |
| 25   | 8233      | Locknut, 1/4-20 Nylon Insert .....                                    | 6   |
| 26   | 8963      | Screw, 5/16-18 X 1.75 Hex-Head Cap .....                              | 2   |

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# CARGO BED

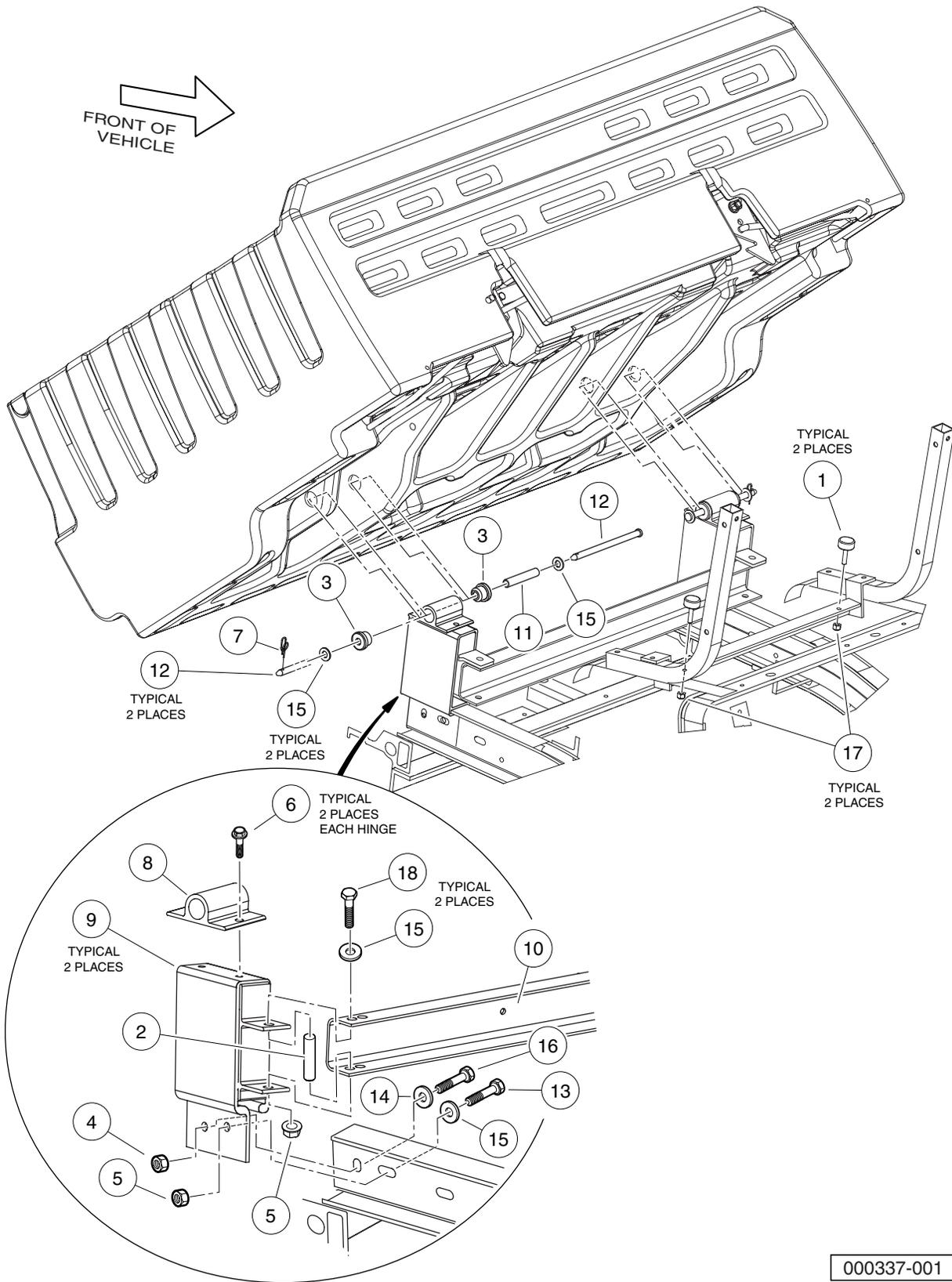
| ITEM | PART NO.  | DESCRIPTION                                  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4                                      |     |
| 1    | 102777302 | Asm, Bed (includes items 2 through 19) ..... | 1   |
| 2    | 1010138   | Locknut, 3/8-16 Dimpled .....                | 2   |
| 3    | 1010545   | Screw, Hex Washer Head 1/4-14 X .75 .....    | 2   |
| 4    | 1011578   | Washer, 5/16 Type B Flat .....               | 2   |
| 5    | 1013876   | Pushnut, 3/8 .....                           | 4   |
| 6    | 1017042   | Washer, 3/8 Flat Type A .....                | 2   |
| 7    | 102778801 | Bed .....                                    | 1   |
| 8    | 102778901 | Support, Latch Link .....                    | 1   |
| 9    | 102779001 | Lanyard, Tailgate .....                      | 2   |
| 10   | 102779101 | Pin, Support .....                           | 2   |
| 11   | 102779201 | Rod, Long Link .....                         | 1   |
| 12   | 102779301 | Rod, Bed Lift, Short Bent .....              | 2   |
| 13   | 102779401 | Bolt Lanyard .....                           | 2   |
| 14   | 102779501 | Tailgate .....                               | 1   |
| 15   | 102779601 | Catch, Tilt Bed .....                        | 2   |
| 16   | 102830701 | Bearing, Bronze, 1/2x9/32 .....              | 2   |
| 17   | 103293501 | Spring, Tilt Latch 3.4 Lb/in .....           | 2   |
| 18   | 304       | Screw, 1/4-20 X 1.0 Hex-Head Cap .....       | 2   |
| 19   | 320       | Screw, 3/8-16 X 1.00 Hex-Head Cap .....      | 1   |

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# BED HINGE

| ITEM | PART NO.  | DESCRIPTION                             | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4                                 |     |
| 1    | 1010878   | Bumper, Rubber .....                    | 2   |
| 2    | 1012303   | Bushing, Steel .....                    | 2   |
| 3    | 1015583   | Bushing, Urethane .....                 | 4   |
| 4    | 101835601 | Locknut, 1/4-20 Hex Whiz .....          | 2   |
| 5    | 102065901 | Locknut, 3/8-16 Flanged Dimple .....    | 4   |
| 6    | 102289001 | Screw, M8X1.25X30, Hex .....            | 4   |
| 7    | 102289301 | Rue Ring - 1/2" .....                   | 2   |
| 8    | 102797201 | Hinge, Roto Bed .....                   | 2   |
| 9    | 102820301 | Support, Hinge .....                    | 2   |
| 10   | 102820501 | Stiffener, Bed Support .....            | 1   |
| 11   | 102821101 | Bushing, Steel .....                    | 2   |
| 12   | 102823201 | Pin, Clevis, 3/8 .....                  | 2   |
| 13   | 320       | Screw, 3/8-16 X 1.00 Hex-Head Cap ..... | 2   |
| 14   | 332       | Washer, 1/4 Type A Narrow Flat .....    | 2   |
| 15   | 334       | Washer, 3/8 Type A Flat .....           | 8   |
| 16   | 7847      | Screw, 1/4-20 X 0.75 Hex-Head Cap ..... | 2   |
| 17   | 8233      | Locknut, 1/4-20 Nylon Insert .....      | 2   |
| 18   | 8755      | Screw, 3/8-16 X 3.375 Hex Cap .....     | 2   |

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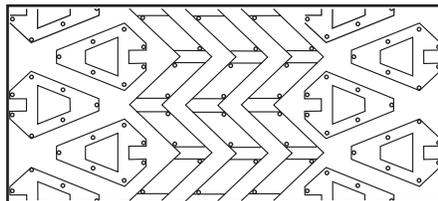
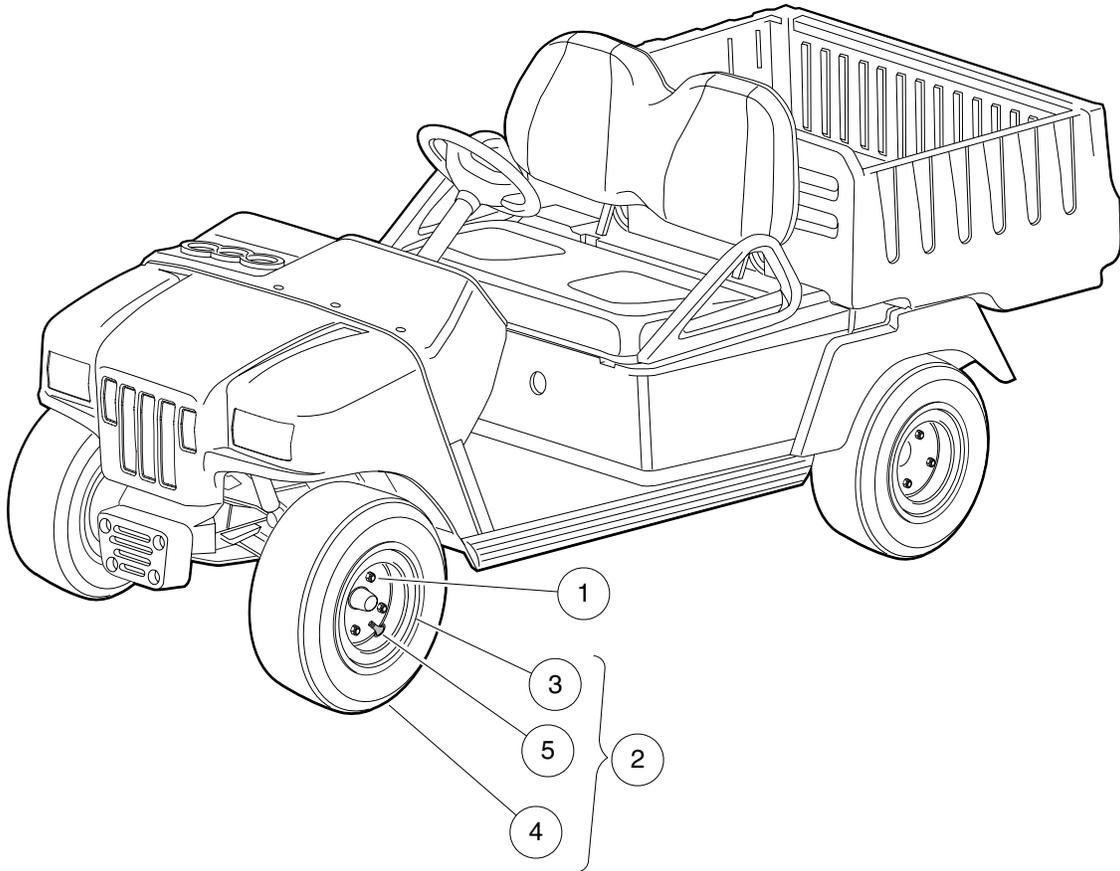
# WHEELS AND TIRES

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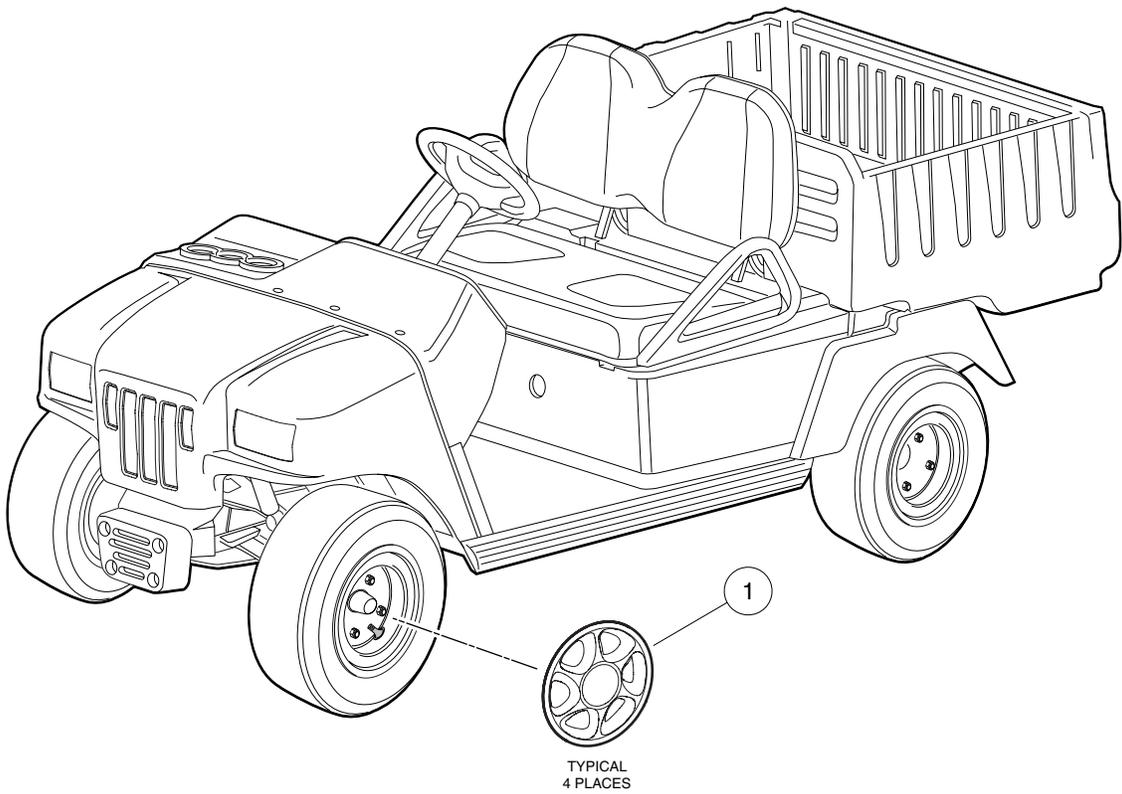
ALL TRAIL II TREAD  
Carlisle®

000224-002

# WHEELS AND TIRES

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1010984   | Nut, 1/2-20 Lug .....  | 16  |
| 2    | 102819101 | Tire Assembly, All Trail II (includes items 3 through 5) ..... | 4   |
| 3    | 102815801 | Wheel Rim, Gray .....  | 1   |
| 4    | 102815901 | Tire, Unmounted, All Trail II .....                            | 1   |
| 5    | 7310      | Valve Stem .....   | 1   |

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# HUBCAP (OPTIONAL)

| ITEM | PART NO.  | DESCRIPTION                                | QTY |
|------|-----------|--|-----|
| 1    | 102861401 | 1 2 3 4<br>Wheel Cover, Chrome Elite ..... | 4   |

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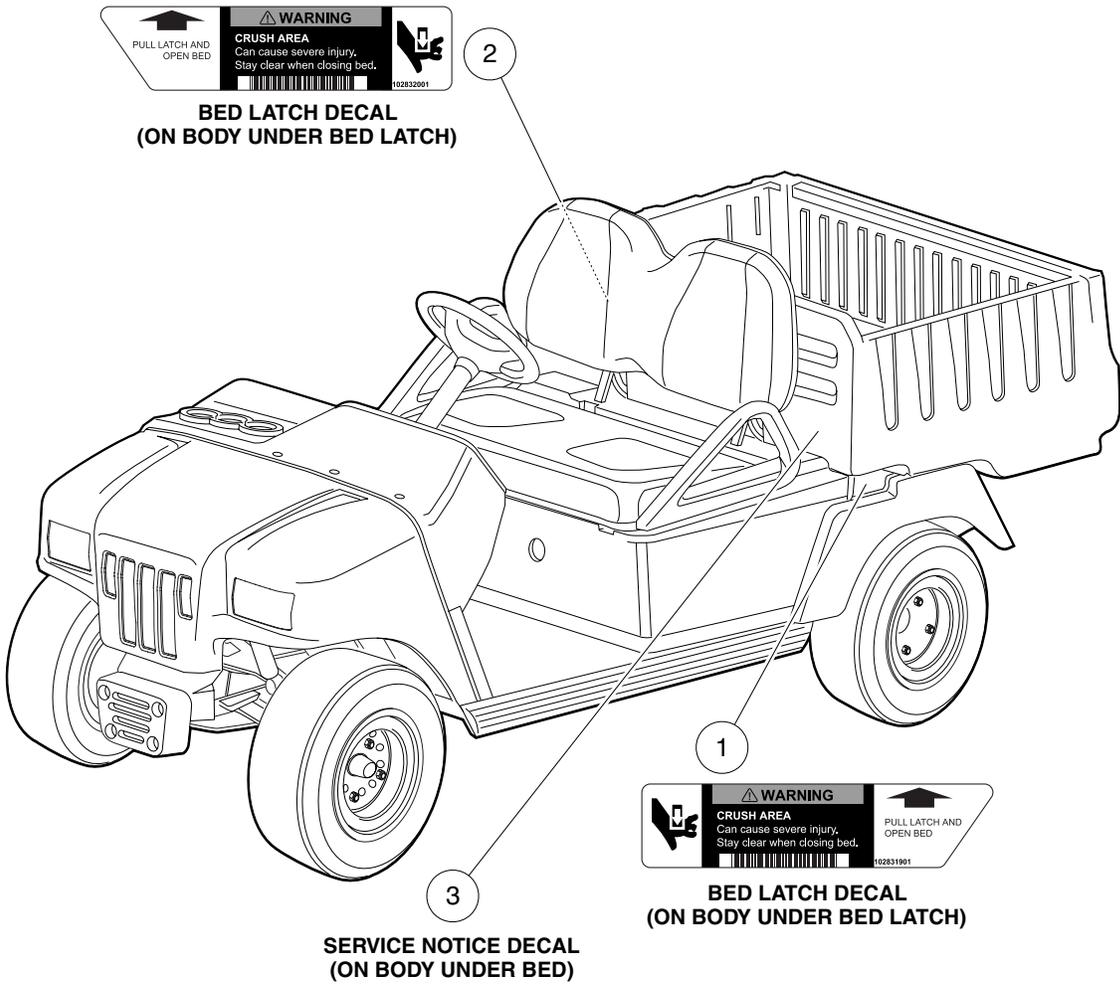
# DECALS

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**BED LATCH DECAL  
(ON BODY UNDER BED LATCH)**



**BED LATCH DECAL  
(ON BODY UNDER BED LATCH)**

**NOTICE**

- THE OWNER/OPERATOR should maintain, lubricate, adjust, and operate the vehicle as detailed in the vehicle owners manual.

CC1 102832001

000225-002

# SAFETY DECALS – GASOLINE VEHICLES

| ITEM | PART NO.  | DESCRIPTION                                | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4                                    |     |
| 1    | 102831901 | Decal, Crush Warning, Driver-Side .....    | 1   |
| 2    | 102832001 | Decal, Crush Warning, Passenger-Side ..... | 1   |
| 3    | 102833301 | Decal, Maintenance .....                   | 1   |

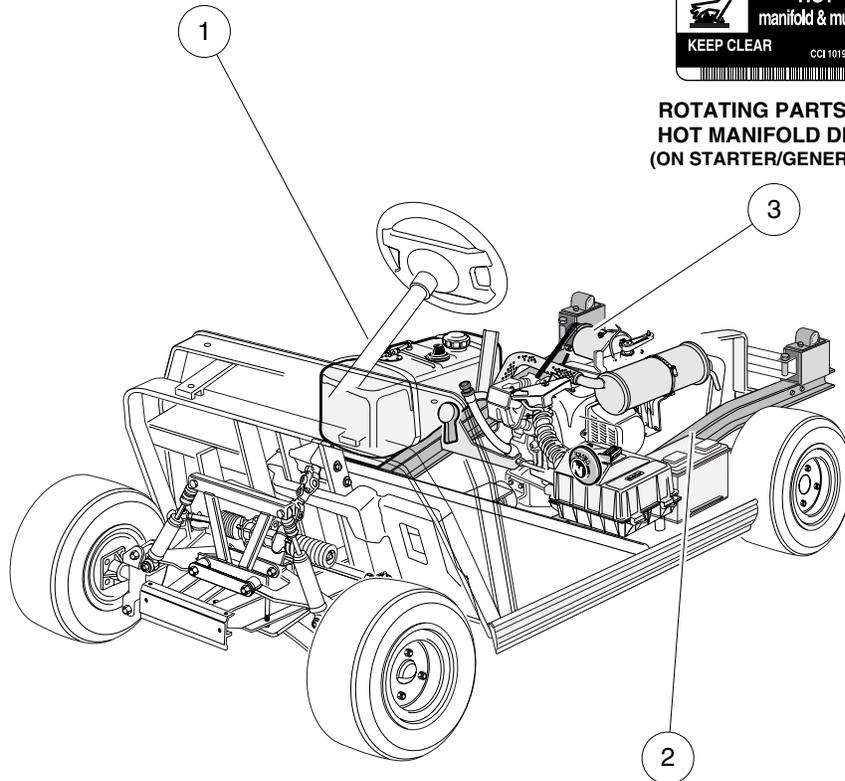
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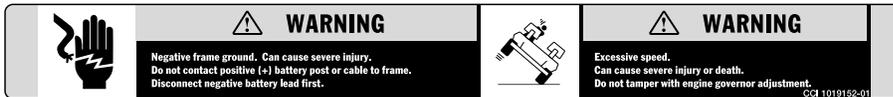
**GASOLINE WARNING DECAL  
(ON VEHICLE FRAME NEAR FUEL TANK)**



**ROTATING PARTS AND  
HOT MANIFOLD DECAL  
(ON STARTER/GENERATOR)**



**FRAME GROUND AND  
GOVERNOR WARNING DECAL  
(ON VEHICLE FRAME NEAR BATTERY)**

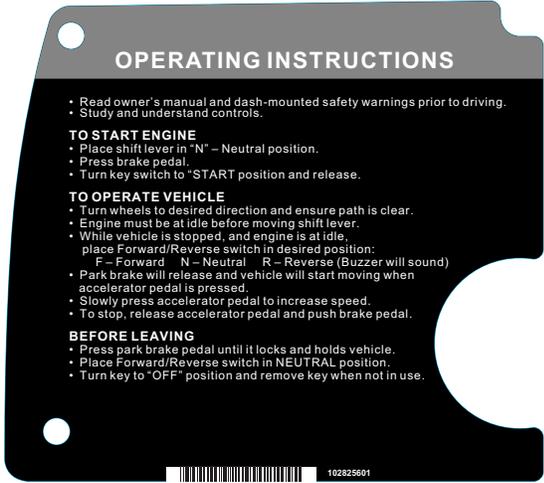


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# SAFETY DECALS – GASOLINE VEHICLES, CONTINUED

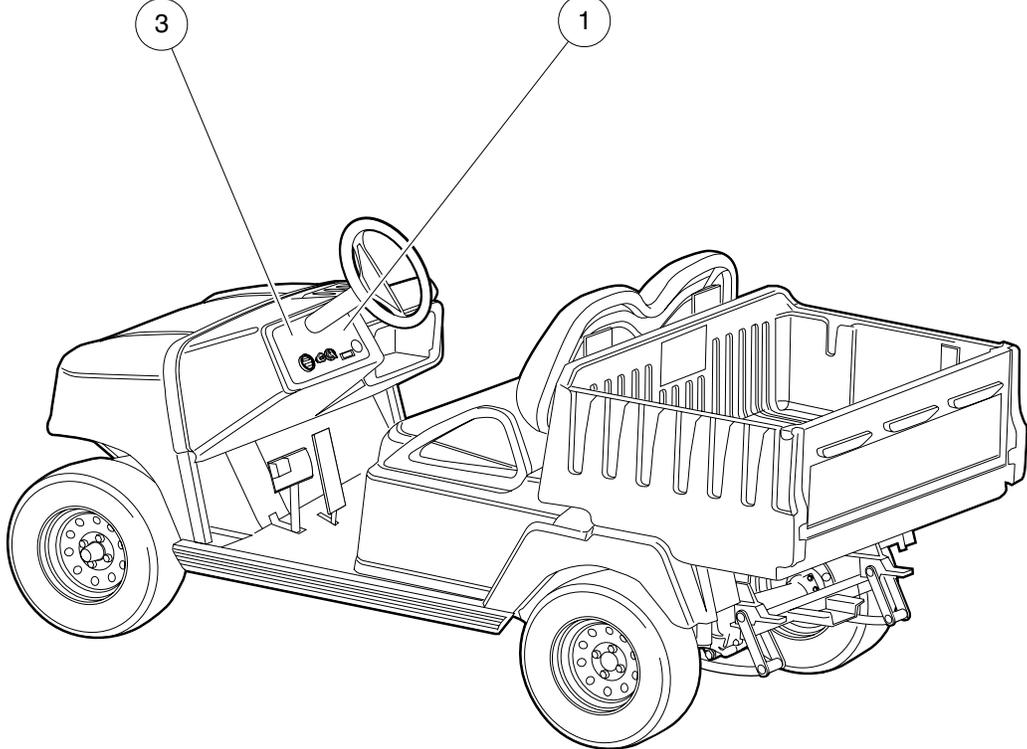
| ITEM | PART NO.  | DESCRIPTION                                    | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 101547601 | Decal, Gasoline Explosion/Fire Warning .....   | 1   |
| 2    | 101915201 | Decal, Frame Ground and Governor Warning ..... | 1   |
| 3 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

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**OPERATING INSTRUCTIONS**

**DRIVER AND PASSENGER WARNING DECAL**



000227-002

# SAFETY DECALS – GASOLINE VEHICLES, CONTINUED

| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 102825401 | Decal, Warning, Instrument Panel .....  | 1   |
| 2    | 102825402 | Decal, Warning, Instrument Panel .....  | 1   |
| 3    | 102825601 | Decal, Operating Instructions, Instrument Panel .....                         | 1   |
|      |           | Note: Item 2 is for use on vehicles equipped with a 12-volt accessory outlet. |     |

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**NOTICE**  
Do not operate vehicle without this cover properly installed.  
Do not direct water stream in this area; will cause damage to components.  
CCI 101831501

**WARNING** TOW RUN

Place Tow/Run switch in TOW position before:

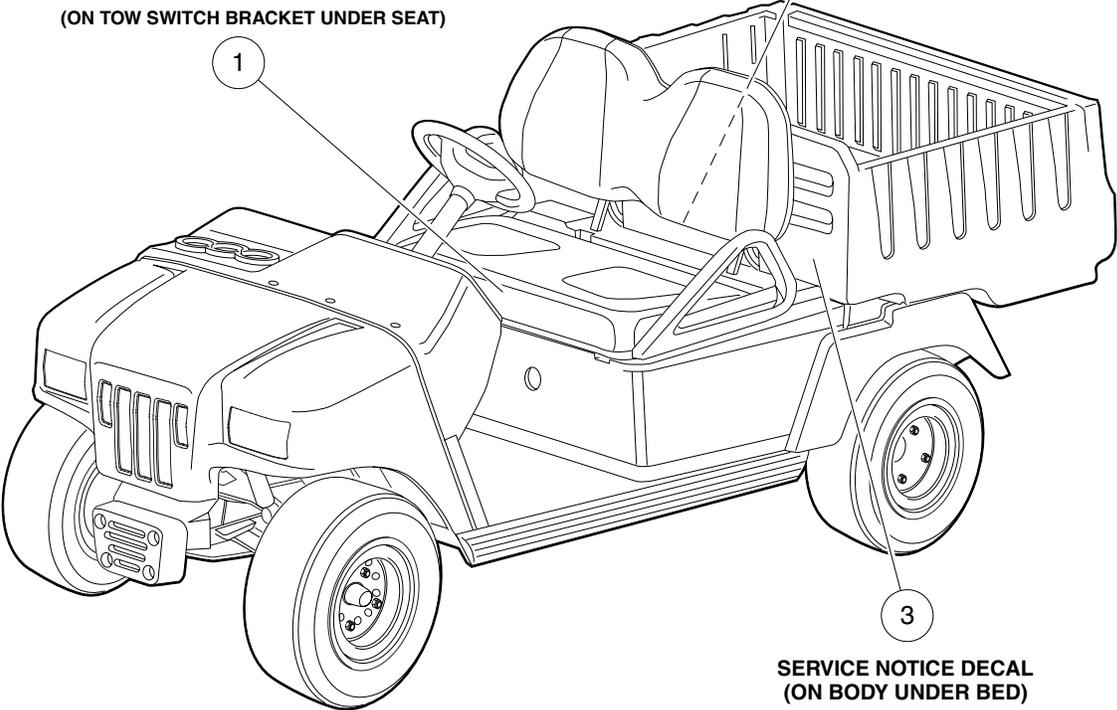
- Disconnecting or connecting batteries
- Towing
- Extended storage
- Servicing

**FAILURE TO HEED THIS WARNING COULD RESULT IN A BATTERY EXPLOSION**

CCI 101908601

**TOW SWITCH WARNING DECAL  
(ON TOW SWITCH BRACKET UNDER SEAT)**

**ELECTRICAL COMPONENT DECAL  
(ON SPEED CONTROLLER COVER)**



**SERVICE NOTICE DECAL  
(ON BODY UNDER BED)**

**NOTICE**

- THE OWNER/OPERATOR should maintain, lubricate, adjust, and operate the vehicle as detailed in the vehicle owners manual.

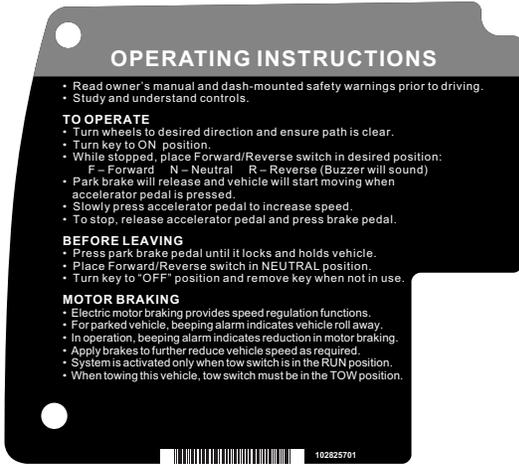
CCI 10283301

000228-002

# SAFETY DECALS – ELECTRIC VEHICLES

| ITEM | PART NO.  | DESCRIPTION                         | QTY |
|------|-----------|-------------------------------------|-----|
|      |           | 1 2 3 4                             |     |
| 1    | 101908601 | Decal, Tow/Run Switch Warning ..... | 1   |
| 2    | 101931501 | Decal, Component Cover .....        | 1   |
| 3    | 102833301 | Decal, Maintenance .....            | 1   |

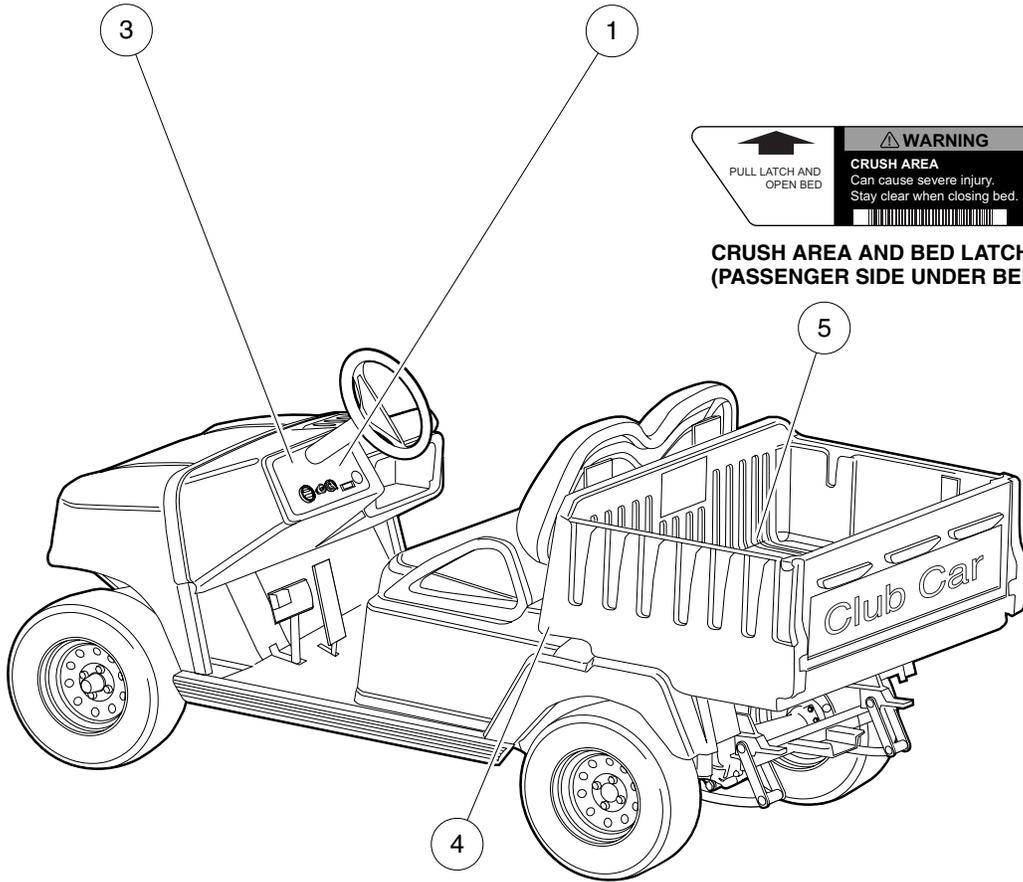
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**OPERATING INSTRUCTIONS**



**DRIVER AND PASSENGER WARNING DECAL**



**CRUSH AREA AND BED LATCH DECAL (PASSENGER SIDE UNDER BED)**

**CRUSH AREA AND BED LATCH DECAL (DRIVER SIDE UNDER BED)**



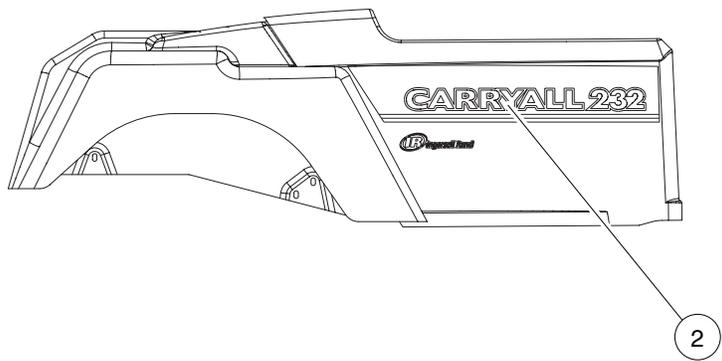
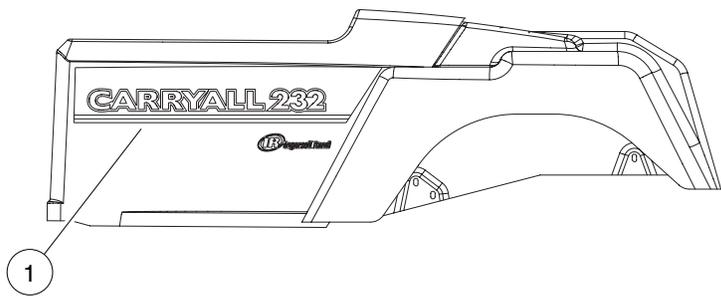
000229-002

# SAFETY DECALS – ELECTRIC VEHICLES, CONTINUED

| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 102825501 | Decal, Warning, Instrument Panel .....  | 1   |
| 2    | 102825502 | Decal, Warning, Instrument Panel .....  | 1   |
| 3    | 102825701 | Decal, Operating Instructions, Instrument Panel .....                         | 1   |
| 4    | 102831901 | Decal, Crush Warning, Driver-Side .....                                       | 1   |
| 5    | 102832001 | Decal, Crush Warning, Passenger-Side .....                                    | 1   |
|      |           | Note: Item 2 is for use on vehicles equipped with a 12-volt accessory outlet. |     |

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# LOGO DECALS

| ITEM | PART NO.  | DESCRIPTION                               | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4                                   |     |
| 1    | 103018301 | Decal, Carryall 232, Driver-Side .....    | 1   |
| 2    | 103018401 | Decal, Carryall 232, Passenger-Side ..... | 1   |

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# BRAKE SYSTEMS

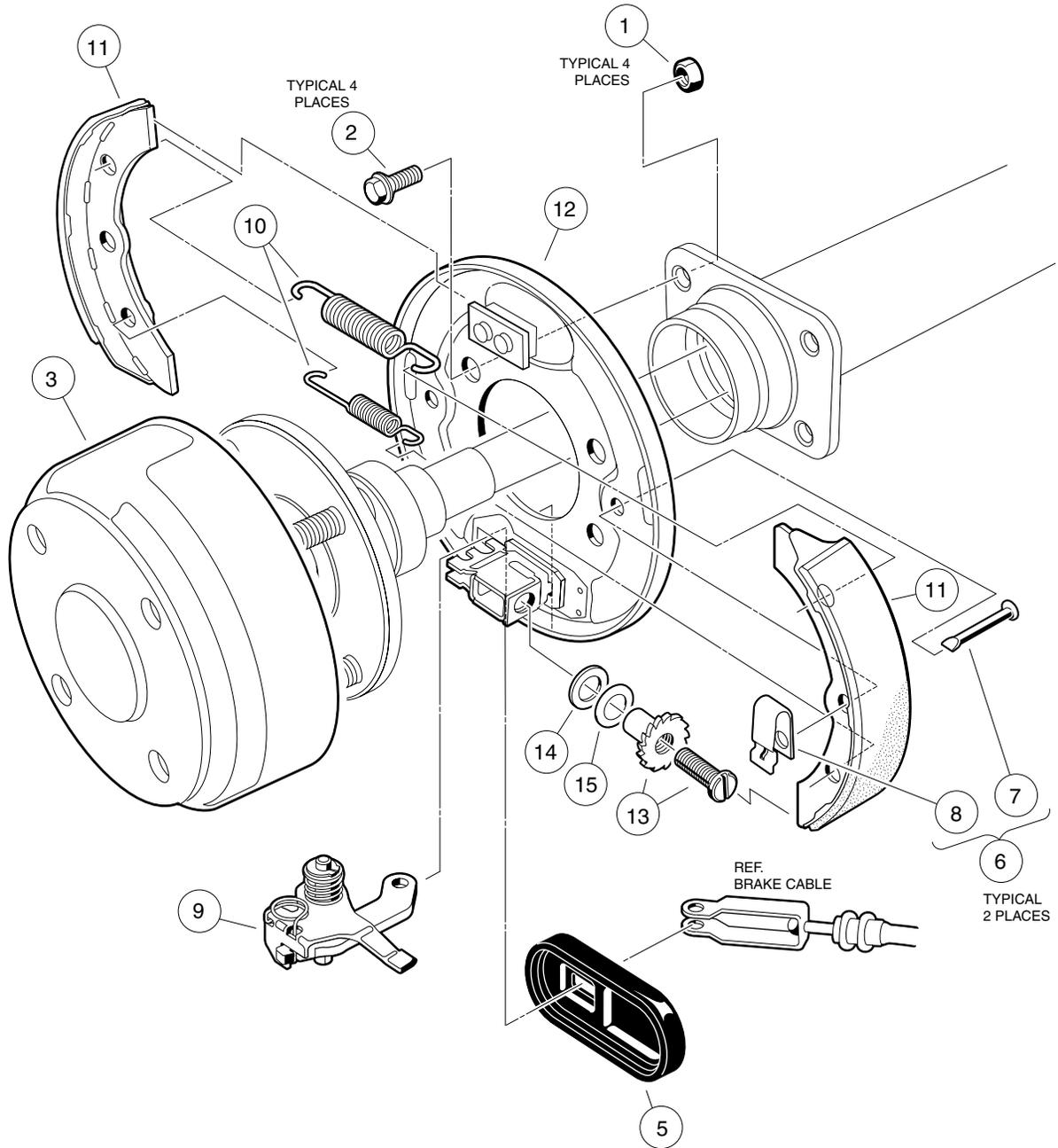
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# REAR BRAKE ASSEMBLY, SELF-ADJUSTING – VEHICLE WITH 2-WHEEL BRAKES

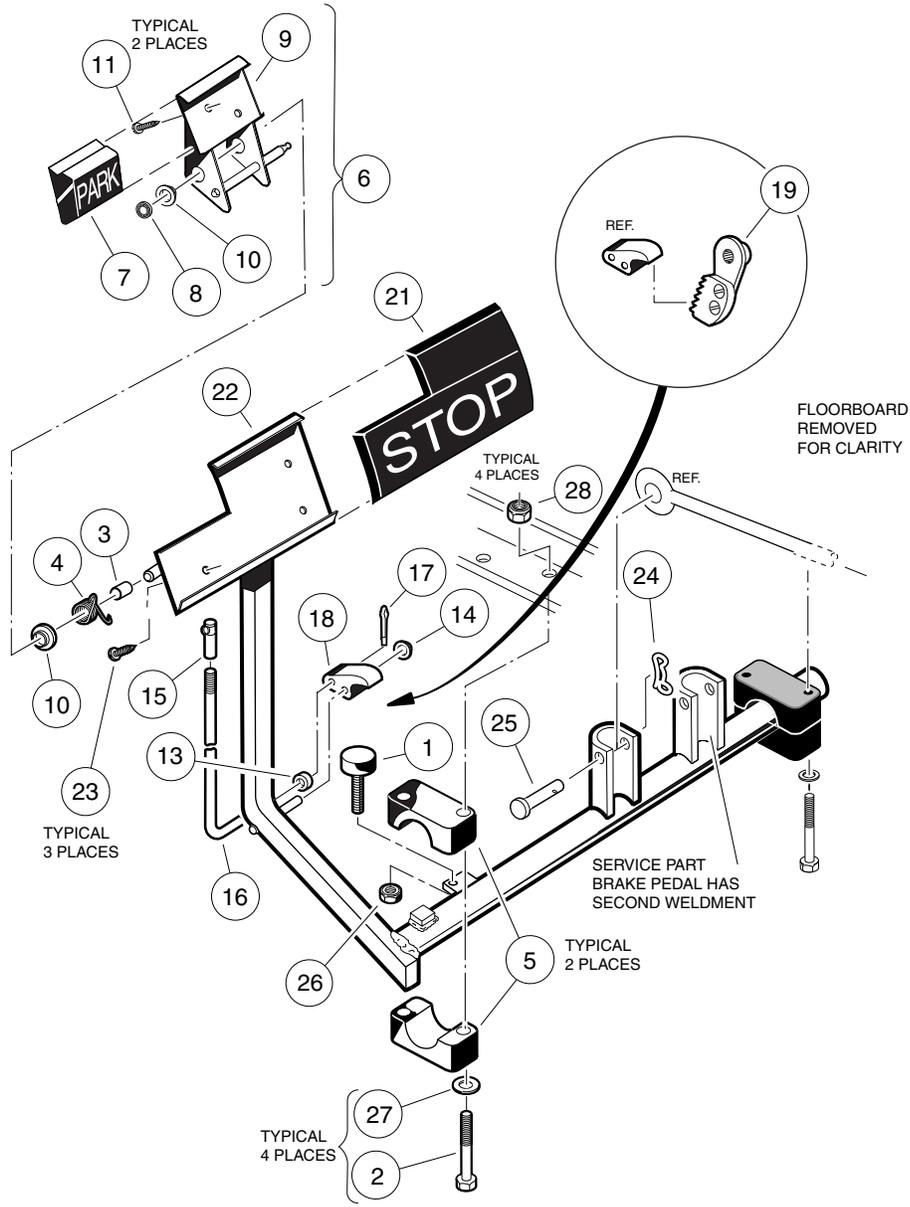
| ITEM  | PART NO.  | DESCRIPTION   | QTY |
|---|-----------|---|-----|
|   |           | 1 2 3 4   |     |
| 1   | 1013924   | Nut, 5/16-24 Hex Head Cone .....  | 8   |
| 2   | 1014153   | Bolt, Brake Cluster Mounting .....  | 8   |
| 3   | 101791101 | Drum without Center Hole, Brake .....   | 2   |
| 4   | 101823301 | Cluster Assembly, Right (Passenger) Brake (includes items 5 through 15) ..... | 1   |
| 5   | 1010850   | Dust Cover .....  | 1   |
| 6   | 1011466   | Kit, Shoe Retainer (includes items 7 and 8) .....                             | 1   |
| 7   | N/A       | Pin .....   | 2   |
| 8   | N/A       | Shoe Clamp Spring .....   | 2   |
| 9   | 101815501 | Lever Assembly, Self-Adjusting Brake, Right (Passenger) .....                 | 1   |
| 10  | 101816301 | Package, Brake Spring, Self-Adjusting .....                                   | 1   |
| 11  | 101816501 | Adj Mechanism, S.A. Brakes, Right (Passenger) .....                           | 1   |
| 12  | 101823201 | Package, Brake Shoe, Self-Adjusting .....                                     | 1   |
| 13  | 101823801 | Plate, Washer, Brake, Self-Adjusting .....                                    | 1   |
| 14  | 101823901 | Washer, Brake, Self-Adjusting .....   | 1   |
| 15  | 101824001 | Plate Assembly, Right Brake Backing .....                                     | 1   |
| 16  | 101823302 | Cluster Assembly, Left Brake (includes items 17 through 27) .....             | 1   |
| 17  | 1010850   | Dust Cover .....  | 1   |
| 18  | 1011466   | Kit, Shoe Retainer (includes items 19 and 20) .....                           | 1   |
| 19  | N/A       | Pin .....   | 2   |
| 20  | N/A       | Shoe Clamp Spring .....   | 2   |
| 21  | 101815502 | Lever Assembly, Self-Adjusting Brake, Left .....                              | 1   |
| 22  | 101816301 | Package, Brake Spring, Self-Adjusting .....                                   | 1   |
| 23  | 101816502 | Adjusting Mechanism, Self-Adjusting Brake, Left .....                         | 1   |
| 24  | 101823201 | Package, Brake Shoe, Self-Adjusting .....                                     | 1   |
| 25  | 101823801 | Plate, Washer, Brake, Self-Adjusting .....                                    | 1   |
| 26  | 101823901 | Washer, Brake, Self-Adjusting .....   | 1   |
| 27  | 101824002 | Plate Assembly, Left Brake Backing .....                                      | 1   |
| Note: Driver-side brake cluster not shown. Components have a similar appearance to passenger-side brake cluster components. |           |   |     |

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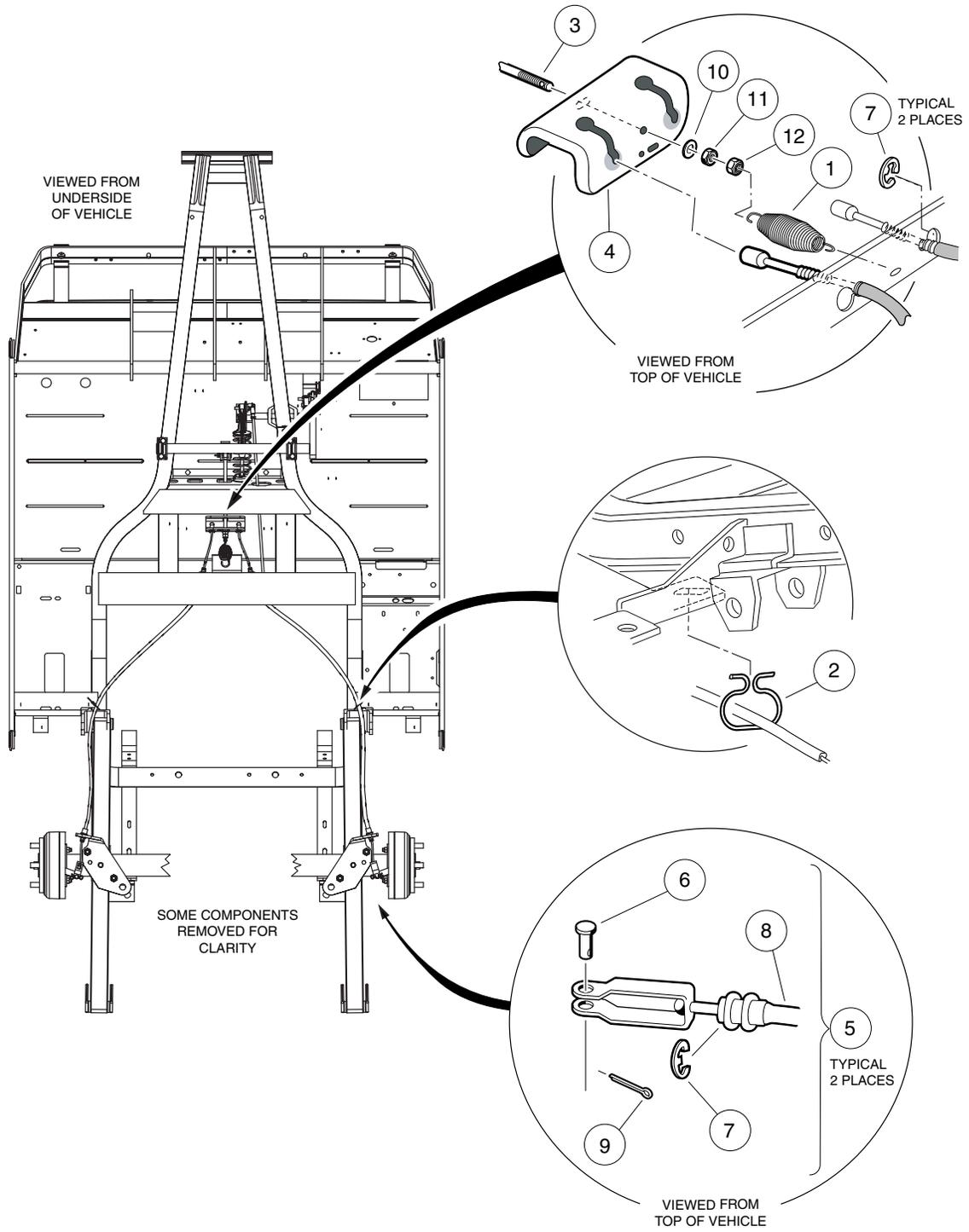
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# BRAKE PEDAL ASSEMBLY

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

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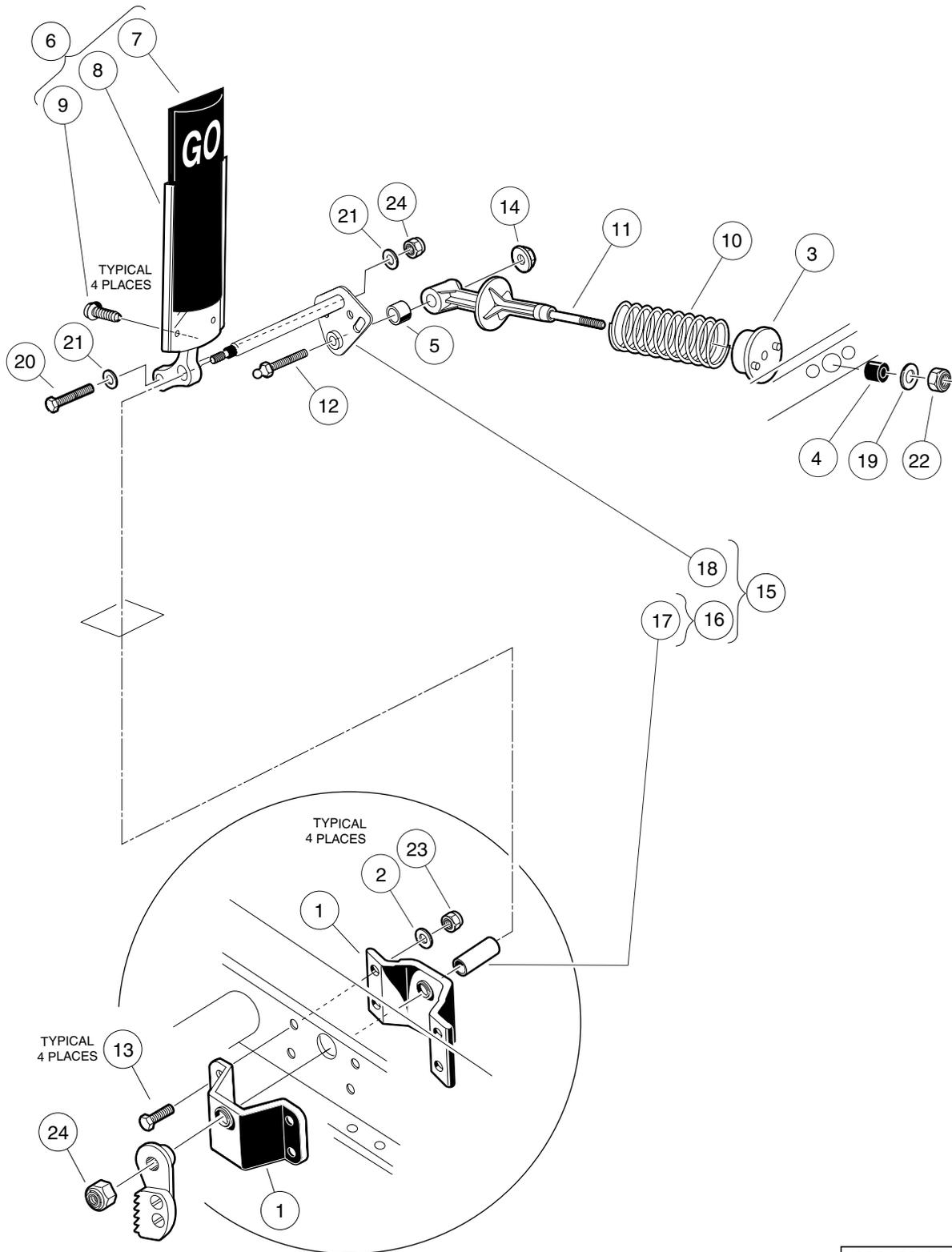
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# BRAKE CABLE, EQUALIZER, AND EQUALIZER ROD

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1013531   | Spring, Brake Return .....                         | 1   |
| 2    | 101900801 | Hanger, Brake Cable .....                          | 2   |
| 3    | 101953101 | Rod, Equalizer .....                               | 1   |
| 4    | 101990801 | Equalizer Bracket .....                            | 1   |
| 5    | 102022101 | Brake Cable Kit (includes items 6 through 9) ..... | 2   |
| 6    | 1010829   | Pin, Clevis, 5/16 X 3/4 .....                      | 1   |
| 7    | 1011779   | E-Clip, 1/2 .....                                  | 2   |
| 8    | N/A       | Cable, Brake .....                                 | 1   |
| 9    | 1035      | Pin, 3/32 X 1.00 Sq Cut Cotter .....               | 1   |
| 10   | 1241      | Washer, 5/16 Type A Flat .....                     | 5   |
| 11   | 1242      | Nut, 5/16-18 Hex .....                             | 1   |
| 12   | 7473      | Locknut, 5/16-18 Nylon Insert .....                | 5   |

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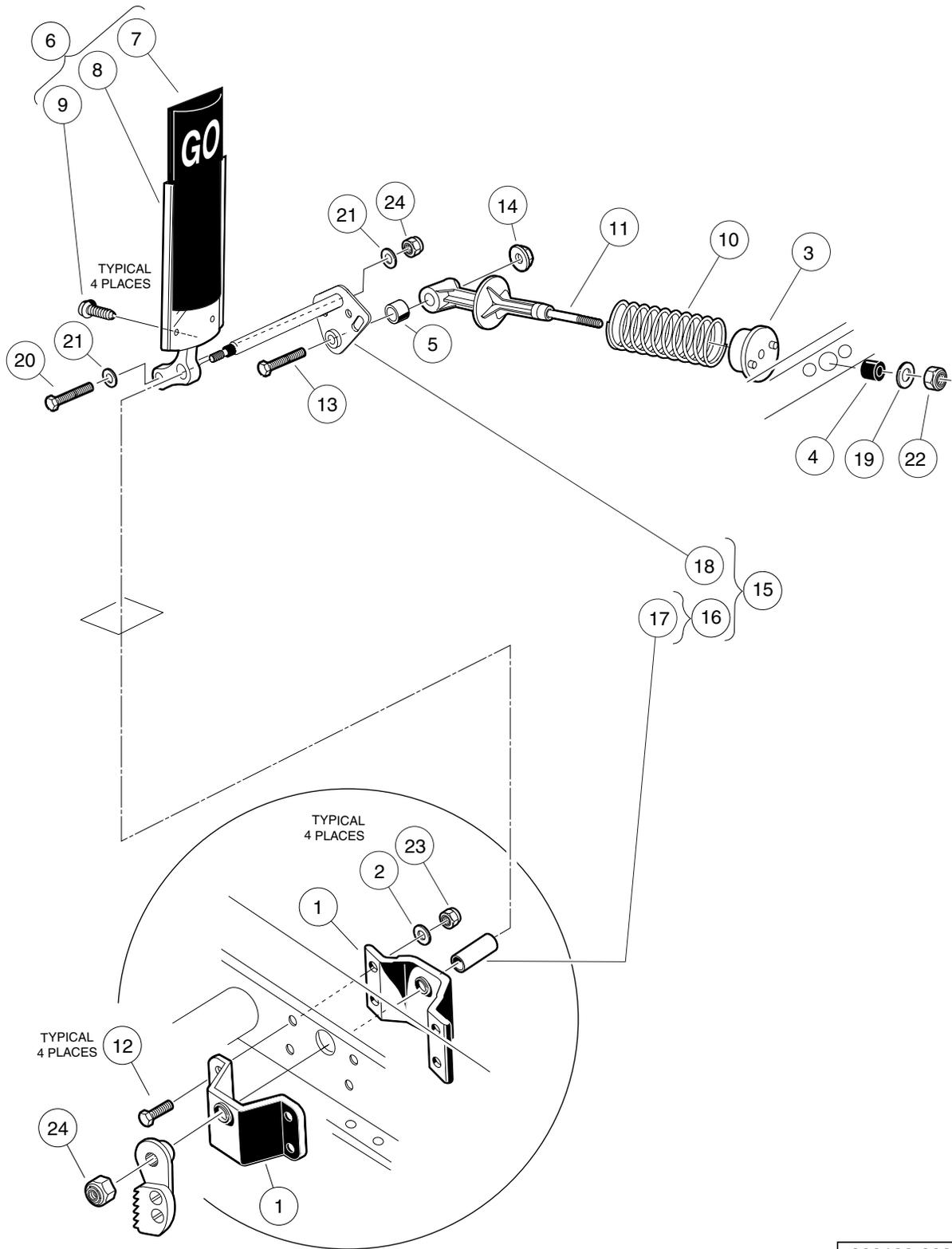
000188-001

# ACCELERATOR PEDAL ASSEMBLY – GASOLINE VEHICLE

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1011694   | Accelerator Bracket and Bearing Assembly .....                           | 2   |
| 2    | 1014007   | Washer, 1/4 Flat .....   | 4   |
| 3    | 1017378   | Cup, Spring .....  | 1   |
| 4    | 1017380   | Bumper, Spring Return .....  | 1   |
| 5    | 1017424   | Bearing, Pivot Support .....   | 1   |
| 6    | 1017696   | Sub Asm, Accelerator Pedal (includes items 7 through 9) .....            | 1   |
| 7    | 1013871   | Pad, Accelerator Pedal .....   | 1   |
| 8    | N/A       | Accelerator Pedal Weldment .....   | 1   |
| 9    | 7716      | Screw, #10-16 Type AB, Sheet Metal .....                                 | 4   |
| 10   | 101796201 | Spring, Accelerator Return .....   | 1   |
| 11   | 101817401 | Retainer, Spring .....   | 1   |
| 12   | 101818801 | Stud, 1/4-28 X 1.35 Ball .....   | 1   |
| 13   | 101861901 | Screw, 1/4-20 X 1.125 Hex Cap .....                                      | 4   |
| 14   | 101966901 | Locknut, 1/4-28 Hex Flange Nylon .....                                   | 1   |
| 15   | 102026001 | Kit, Accelerator Pivot Rod Assembly (includes items 16 through 18) ..... | 1   |
| 16   | 1011700   | Spacer Assembly (includes item 17) .....                                 | 1   |
| 17   | N/A       | Spacer, Accelerator .....  | 1   |
| 18   | N/A       | Pivot Rod Weldment .....   | 1   |
| 19   | 1241      | Washer, 5/16 Type A Flat .....   | 1   |
| 20   | 1624      | Screw, 3/8-16 X 1.50 Hex-Head Cap .....                                  | 1   |
| 21   | 334       | Washer, 3/8 Type A Flat .....  | 2   |
| 22   | 7473      | Locknut, 5/16-18 Nylon Insert .....                                      | 1   |
| 23   | 8233      | Locknut, 1/4-20 Nylon Insert .....                                       | 4   |
| 24   | 8754      | Locknut, 3/8-16 Hex .....  | 2   |

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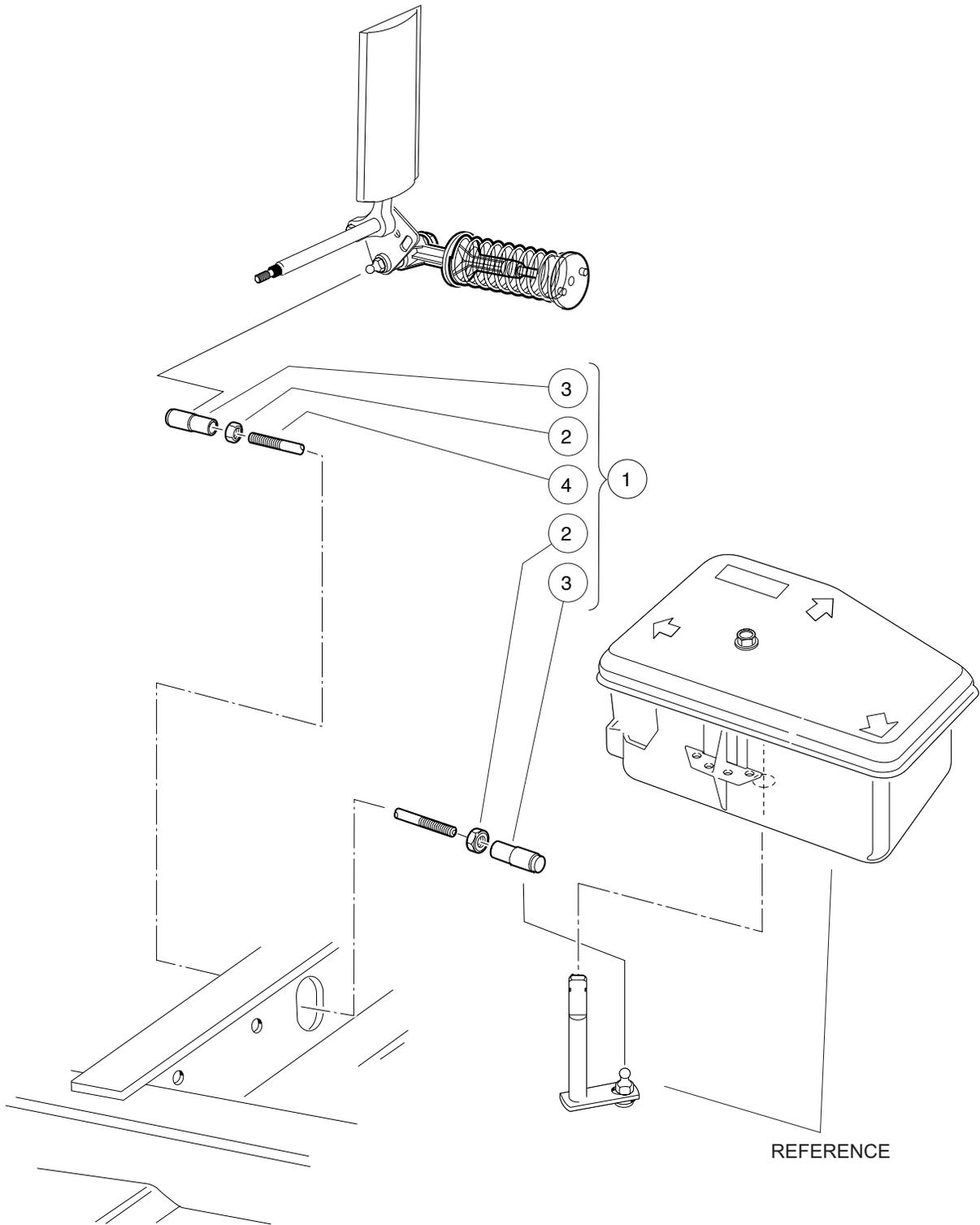
000188-002

# ACCELERATOR PEDAL ASSEMBLY – ELECTRIC VEHICLES

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1011694   | Accelerator Bracket and Bearing Assembly .....                           | 2   |
| 2    | 1014007   | Washer, 1/4 Flat .....   | 4   |
| 3    | 1017378   | Cup, Spring .....  | 1   |
| 4    | 1017380   | Bumper, Spring Return .....  | 1   |
| 5    | 1017424   | Bearing, Pivot Support .....   | 1   |
| 6    | 1017696   | Sub Asm, Accelerator Pedal (includes items 7 through 9) .....            | 1   |
| 7    | 1013871   | Pad, Accelerator Pedal .....   | 1   |
| 8    | N/A       | Accelerator Pedal Weldment .....   | 1   |
| 9    | 7716      | Screw, #10-16 Type AB, Sheet Metal .....                                 | 4   |
| 10   | 101796201 | Spring, Accelerator Return .....   | 1   |
| 11   | 101817401 | Retainer, Spring .....   | 1   |
| 12   | 101861901 | Screw, 1/4-20 X 1.125 Hex Cap .....                                      | 4   |
| 13   | 101862001 | Screw, 1/4-20 X 1.500 Flange .....                                       | 1   |
| 14   | 101966901 | Locknut, 1/4-28 Hex Flange Nylon .....                                   | 1   |
| 15   | 102026001 | Kit, Accelerator Pivot Rod Assembly (includes items 16 through 18) ..... | 1   |
| 16   | 1011700   | Spacer Assembly (includes item 17) .....                                 | 1   |
| 17   | N/A       | Spacer, Accelerator .....  | 1   |
| 18   | N/A       | Pivot Rod Weldment .....   | 1   |
| 19   | 1241      | Washer, 5/16 Type A Flat .....   | 1   |
| 20   | 1624      | Screw, 3/8-16 X 1.50 Hex-Head Cap .....                                  | 1   |
| 21   | 334       | Washer, 3/8 Type A Flat .....  | 2   |
| 22   | 7473      | Locknut, 5/16-18 Nylon Insert .....                                      | 1   |
| 23   | 8233      | Locknut, 1/4-20 Nylon Insert .....                                       | 4   |
| 24   | 8754      | 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    | 1011084   | Nut, 1/4-28 Hex Jam .....                           | 2   |
| 3    | 1011734   | Joint, Ball .....                                   | 2   |
| 4    | N/A       | Accelerator Rod .....                               | 1   |

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# STEERING AND SUSPENSIONS

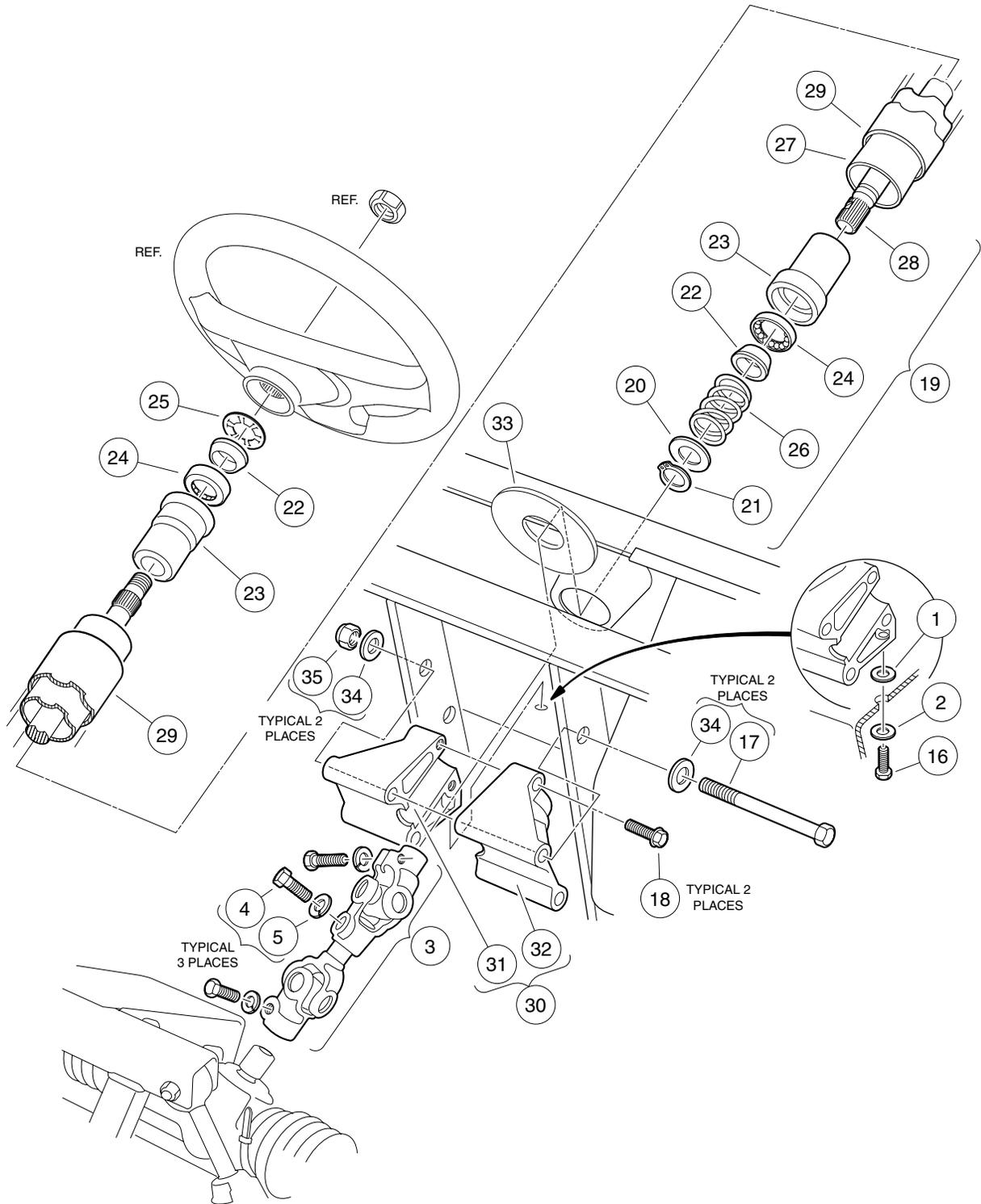
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# STEERING COLUMN

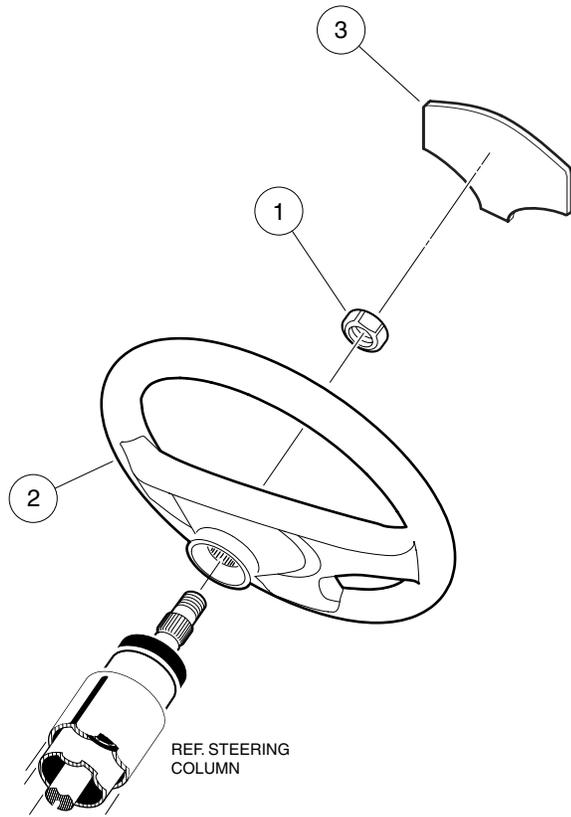
| ITEM                             | PART NO.  | DESCRIPTION  | QTY |
|----------------------------------|-----------|--|-----|
|                                  |           | 1 2 3 4  |     |
| 1                                | 1011578   | Washer, 5/16 Type B Flat .....   | 1   |
| 2                                | 1011697   | Washer, 5/16 Flat .....  | 1   |
| 3                                | 1013861   | Intermediate Steering Shaft (includes items 4 and 5) .....             | 1   |
| 4                                | 1017226   | Bolt, Hex-Head, 8mm X 1.25 - 30 .....                                  | 3   |
| 5                                | 7174      | Lockwasher, 5/16 Split .....   | 3   |
| 6                                | 1014216   | Steering Column Rebuild Kit (includes items 7 through 15) .....        | A/R |
| 7                                | 1012466   | Dust Cover .....   | 1   |
| 8                                | 1012605   | Ring, 0.579 Internal Retaining .....                                   | 1   |
| 9                                | 1014125   | Wedge, Molded .....  | 2   |
| 10                               | 1014126   | Seat, Plastic Bearing .....  | 2   |
| 11                               | 1014211   | Seal, Bearing .....  | 1   |
| 12                               | 1014212   | Spacer, Shaft .....  | 1   |
| 13                               | 1014213   | Bearing, Ball .....  | 2   |
| 14                               | 1014214   | Ring, Retaining .....  | 1   |
| 15                               | 1014217   | Spring, Steering Shaft .....   | 1   |
| 16                               | 1014288   | Screw, 5/16-18 X 0.75 Thread-Forming .....                             | 1   |
| 17                               | 1016183   | Screw, 3/8-16 X 7.00 Hex Cap .....                                     | 2   |
| 18                               | 1016269   | Screw, 5/16-18 Thrd Forming .....                                      | 2   |
| 19                               | 1017313   | Steering Shaft Assembly (includes items 20 through 28) .....           | 1   |
| 20                               | 1012604   | Washer, 0.675 ID X 1.19 OD .....                                       | 1   |
| 21                               | 1012605   | Ring, 0.579 Internal Retaining .....                                   | 1   |
| 22                               | 1014125   | Wedge, Molded .....  | 2   |
| 23                               | 1014126   | Seat, Plastic Bearing .....  | 2   |
| 24                               | 1014213   | Bearing, Ball .....  | 2   |
| 25                               | 1014214   | Ring, Retaining .....  | 1   |
| 26                               | 1014217   | Spring, Steering Shaft .....   | 1   |
| 27                               | 1017314   | Column, Aluminum Steering .....  | 1   |
| 28                               | 1017315   | Shaft Steering Column .....  | 1   |
| 29                               | 1017317   | Tube Cover, Steering Column .....                                      | 1   |
| 30                               | 101984801 | Kit, Steering Column Mounting Bracket (includes items 31 and 32) ..... | 1   |
| 31                               | N/A       | Bracket, RH Steering Column Mount .....                                | 1   |
| 32                               | N/A       | Bracket, LH Steering column mount .....                                | 1   |
| 33                               | 102278001 | Boot, Steering Column Round .....                                      | 1   |
| 34                               | 334       | Washer, 3/8 Type A Flat .....  | 4   |
| 35                               | 8754      | Locknut, 3/8-16 Hex .....  | 2   |
| Note: Item 6 is not illustrated. |           |  |     |

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# STEERING WHEEL

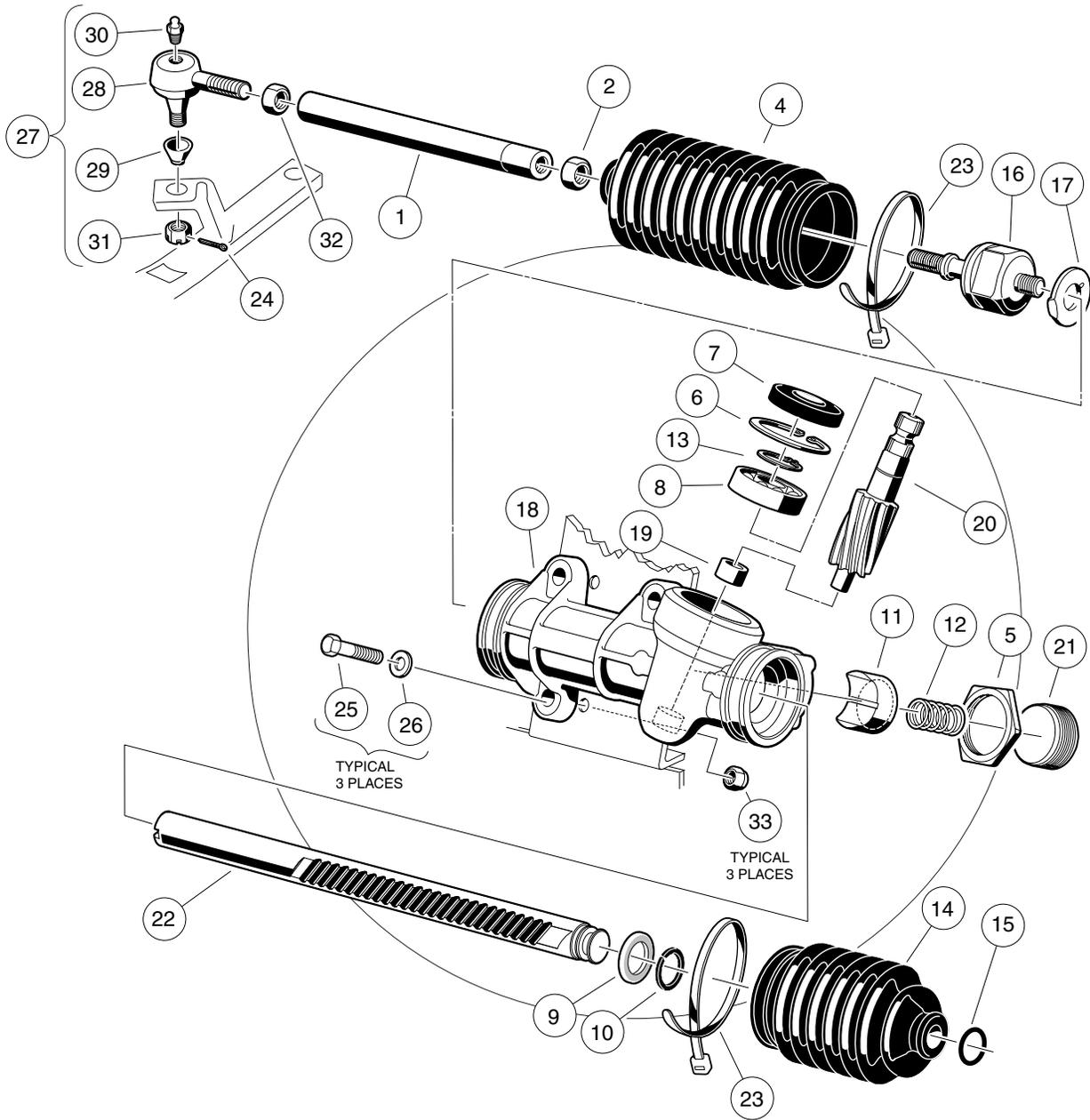
| ITEM | PART NO.  | DESCRIPTION                        | QTY |
|------|-----------|------------------------------------|-----|
|      |           | 1 2 3 4                            |     |
| 1    | 1017273   | Nut, 5/8-18 Nylon Insert Jam ..... | 1   |
| 2    | 102796201 | Steering Wheel, Spline .....       | 1   |
| 3    | 102822401 | Wheel Center .....                 | 1   |

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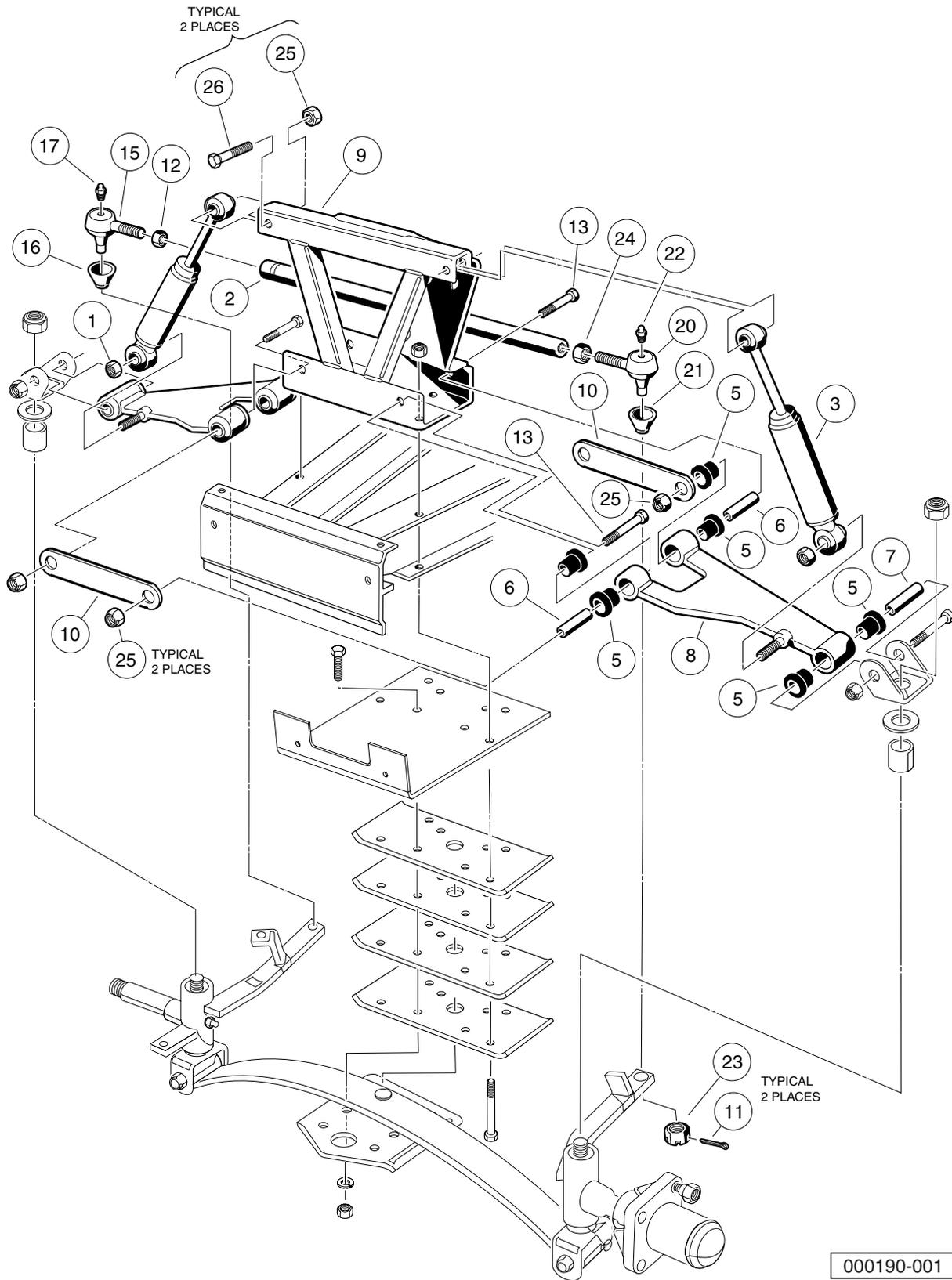
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# STEERING GEAR ASSEMBLY

| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 1012467   | Link, Rack and Pinion Drag .....  | 1   |
| 2    | 1013042   | Nut, 12mm Hex .....   | 1   |
| 3    | 101878302 | Steering Gear Assembly (without yoke) (includes items 4 through 23) ..... | 1   |
| 4    | 1013035   | Bellows, Long .....   | 1   |
| 5    | 1013044   | Rack Screw Locknut .....  | 1   |
| 6    | 1013051   | Snap Ring .....   | 1   |
| 7    | 1013052   | Seal, Steering Pinion Dust .....  | 1   |
| 8    | 101879401 | Bearing, Ball .....   | 1   |
| 9    | 101879501 | Stop Washer .....   | 1   |
| 10   | 101879601 | Stop Ring, C-Type .....   | 1   |
| 11   | 101879701 | Support Yoke .....  | 1   |
| 12   | 101879801 | Rack Guide Pressure Spring .....  | 1   |
| 13   | 101879901 | Ring, Stop, C-Type .....  | 1   |
| 14   | 101880001 | Bellows, Short .....  | 1   |
| 15   | 101880101 | Dust Seal Retaining Ring .....  | 1   |
| 16   | 101880201 | Inner Ball Joint Asm .....  | 1   |
| 17   | 101880301 | 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   | 8990      | Tie Wrap, 8" Nylon .....  | 2   |
| 24   | 1035      | Pin, 3/32 X 1.00 Sq Cut Cotter .....                                      | 1   |
| 25   | 1624      | Screw, 3/8-16 X 1.50 Hex-Head Cap .....                                   | 3   |
| 26   | 334       | Washer, 3/8 Type A Flat .....   | 3   |
| 27   | 7540      | Ball Joint, Left (includes items 28 through 31) .....                     | 1   |
| 28   | N/A       | Socket, LH Vertical .....   | 1   |
| 29   | 1011930   | Seal, Vertical Socket Dust .....  | 1   |
| 30   | 1015597   | Fitting, 1/4-28 Thread-Forming Grease .....                               | 1   |
| 31   | 7602      | Nut, 3/8-24 UNF Hex .....   | 1   |
| 32   | 7555      | Nut, 1/2-20 Hex, Left-Hand Thread .....                                   | 1   |
| 33   | 8754      | Locknut, 3/8-16 Hex .....   | 3   |

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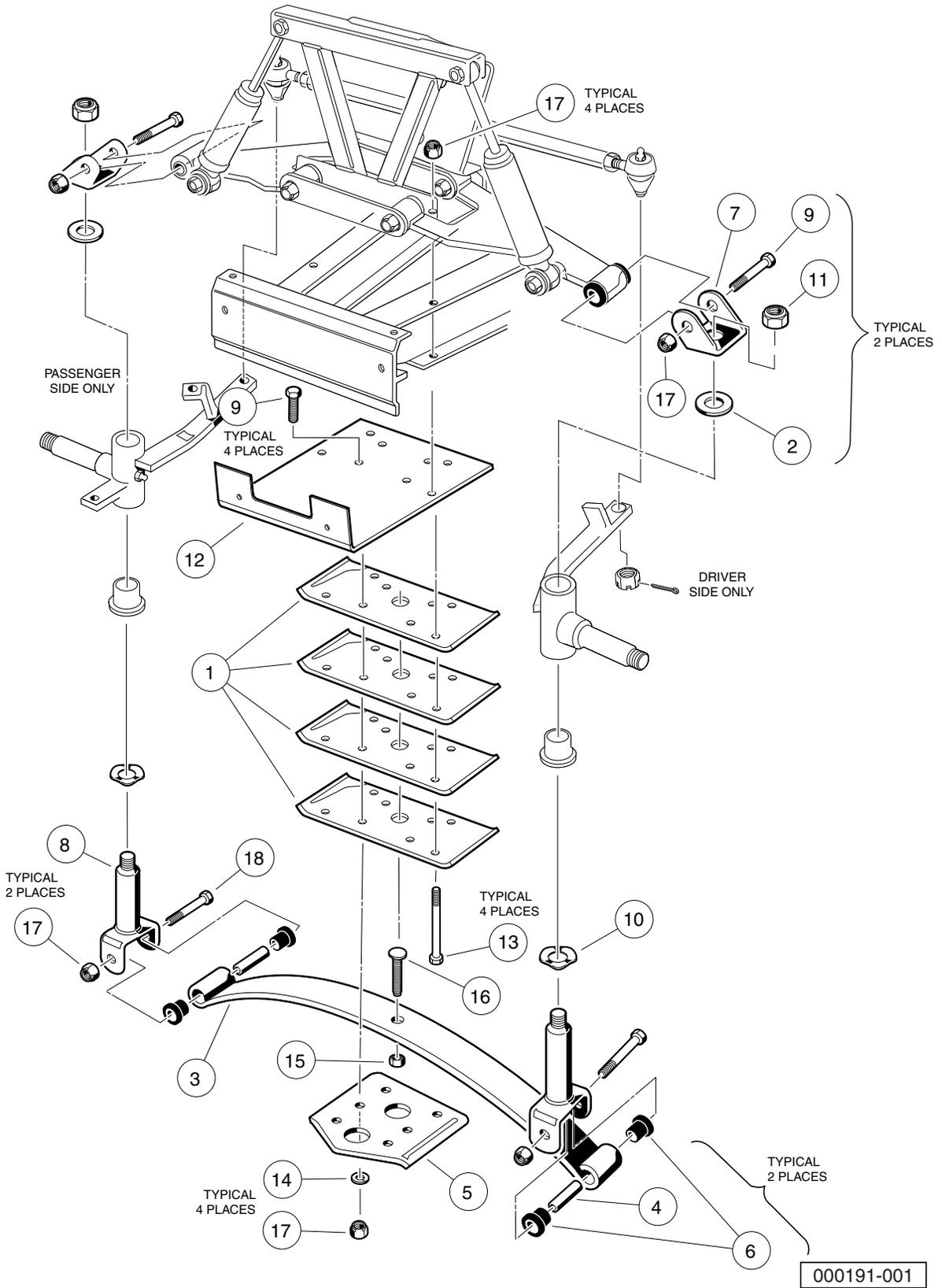
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# FRONT SUSPENSION, UPPER

| ITEM | PART NO. | DESCRIPTION  | QTY |
|------|----------|--|-----|
|      |          | 1 2 3 4  |     |
| 1    | 1010138  | Locknut, 3/8-16 Dimpled .....                                  | 2   |
| 2    | 1010219  | Tie Rod .....  | 1   |
| 3    | 1014235  | Shock Absorber .....   | 2   |
| 4    | 1016353  | Sub-Assembly, Delta A-Plate (includes items 5 through 8) ..... | 2   |
| 5    | 1016346  | Bushing, Urethane .....  | 6   |
| 6    | 1016349  | Sleeve, Delta Inner .....                                      | 2   |
| 7    | 1016350  | Sleeve, Delta Outer .....                                      | 1   |
| 8    | N/A      | Delta A-Plate .....  | 1   |
| 9    | 1016385  | Delta Shock and Gear Support Assembly .....                    | 1   |
| 10   | 1017266  | A-Plate Strap .....  | 2   |
| 11   | 1035     | Pin, 3/32 X 1.00 Sq Cut Cotter .....                           | 2   |
| 12   | 1308     | Nut, 1/2-20 Hex .....  | 1   |
| 13   | 2402     | Screw, 3/8-16 X 2.25 Hx Hd Cap .....                           | 4   |
| 14   | 7539     | Ball Joint, Right-Hand (includes items 15 through 18) .....    | 1   |
| 15   | N/A      | Socket, RH Vertical .....                                      | 1   |
| 16   | 1011930  | Seal, Vertical Socket Dust .....                               | 1   |
| 17   | 1015597  | Fitting, 1/4-28 Thread-Forming Grease .....                    | 1   |
| 18   | 7602     | Nut, 3/8-24 UNF Hex .....                                      | 1   |
| 19   | 7540     | Ball Joint, Left (includes items 20 through 23) .....          | 1   |
| 20   | N/A      | Socket, LH Vertical .....                                      | 1   |
| 21   | 1011930  | Seal, Vertical Socket Dust .....                               | 1   |
| 22   | 1015597  | Fitting, 1/4-28 Thread-Forming Grease .....                    | 1   |
| 23   | 7602     | Nut, 3/8-24 UNF Hex .....                                      | 1   |
| 24   | 7555     | Nut, 1/2-20 Hex, Left-Hand Thread .....                        | 1   |
| 25   | 8754     | Locknut, 3/8-16 Hex .....                                      | 10  |
| 26   | 8861     | Bolt, 3/8-16 X 1.75 Hex .....                                  | 2   |

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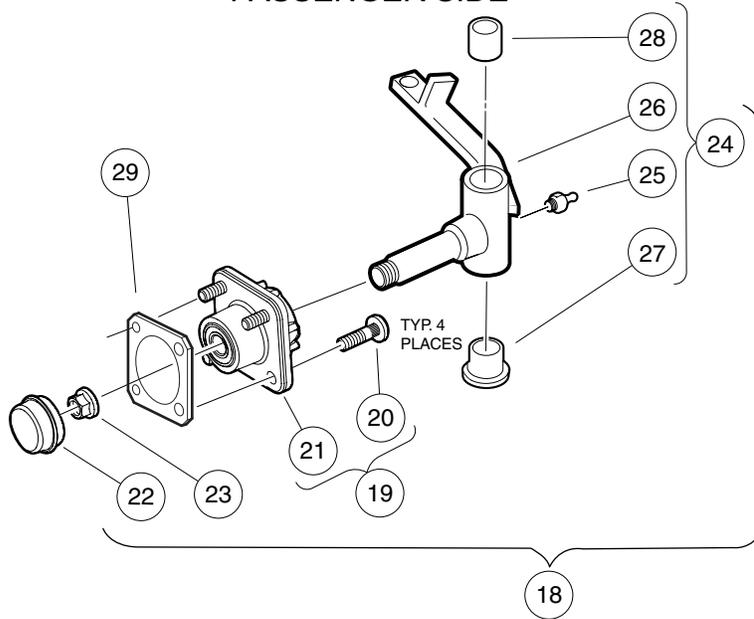
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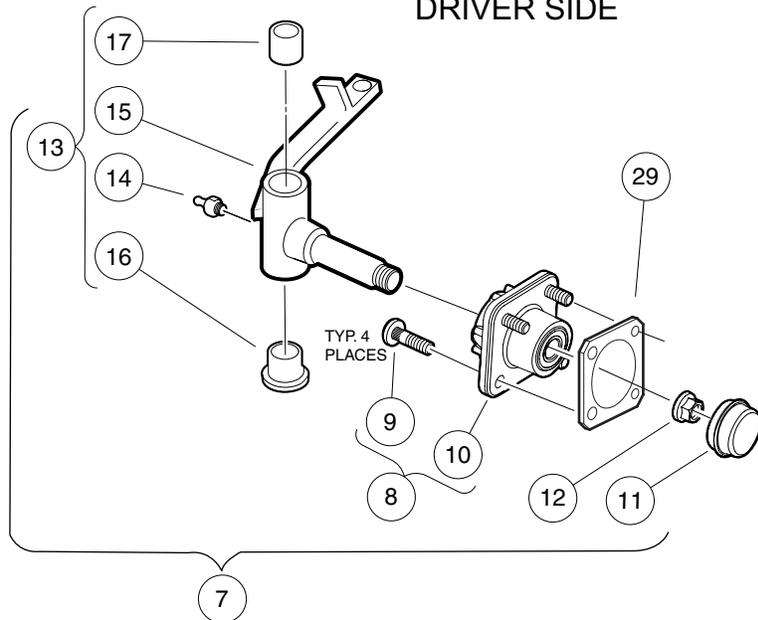
## FRONT SUSPENSION, LOWER

| ITEM | PART NO.  | DESCRIPTION                          | QTY |          |
|------|-----------|--------------------------------------|-----|----------|
|      |           | 1 2 3 4                              |     | <b>5</b> |
| 1    | 1010124   | Plate, Spring Mount .....            | 4   | <b>G</b> |
| 2    | 1010150   | Bearing, Thrust .....                | 2   | <b>E</b> |
| 3    | 1012030   | Spring, Front Leaf .....             | 1   |          |
| 4    | 1012303   | Bushing, Steel .....                 | 2   |          |
| 5    | 1014276   | Plate, Front Spring Retainer .....   | 1   |          |
| 6    | 1015583   | Bushing, Urethane .....              | 4   |          |
| 7    | 1016384   | Clevis, Delta Upper .....            | 2   |          |
| 8    | 1016386   | King Pin Assembly .....              | 2   |          |
| 9    | 1016387   | Screw, 3/8-16 X 2.75 Hx Hd Cap ..... | 6   |          |
| 10   | 1016389   | Washer, 1.125 Od Wave .....          | 2   |          |
| 11   | 101903101 | Locknut, 1/2-20 Nylon Insert .....   | 2   |          |
| 12   | 102830401 | Support, Brush Guard .....           | 1   |          |
| 13   | 102913601 | Screw, 3/8-16 X 5.50 Hx Hd Cap ..... | 4   |          |
| 14   | 357       | Washer, 3/8 Split Lock .....         | 4   |          |
| 15   | 706       | Nut, 3/8-16 Hex .....                | 1   |          |
| 16   | 8745      | Screw, Eccentric Adjustment .....    | 1   |          |
| 17   | 8754      | Locknut, 3/8-16 Hex .....            | 8   |          |
| 18   | 8755      | Screw, 3/8-16 X 3.375 Hex Cap .....  | 2   |          |

**PASSENGER SIDE**

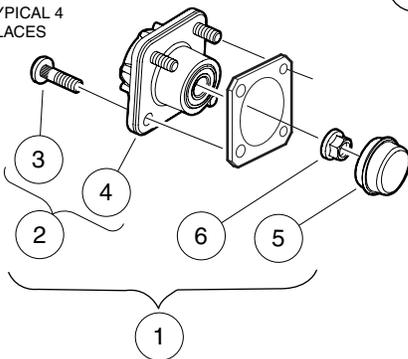


**DRIVER SIDE**



**REPLACEMENT HUB FOR DRIVER OR PASSENGER SIDE**

TYPICAL 4 PLACES



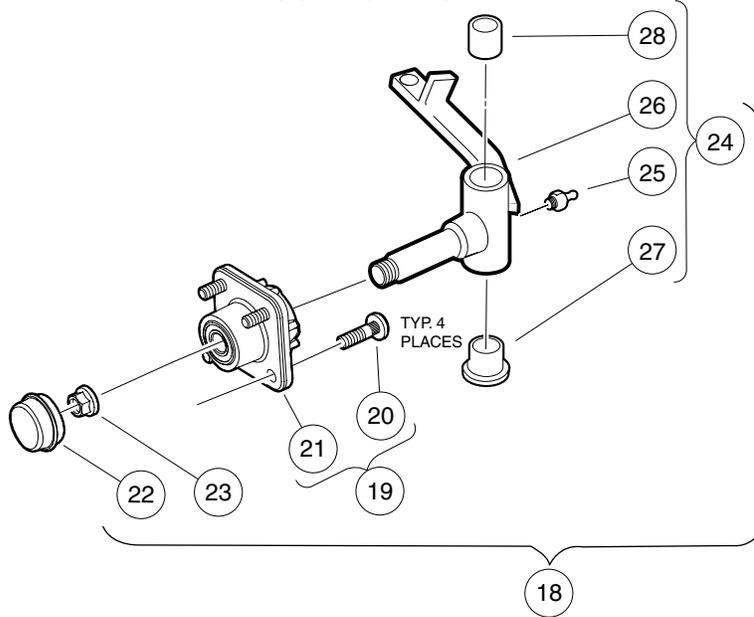
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# FRONT SPINDLES AND HUBS – EARLIER STYLE

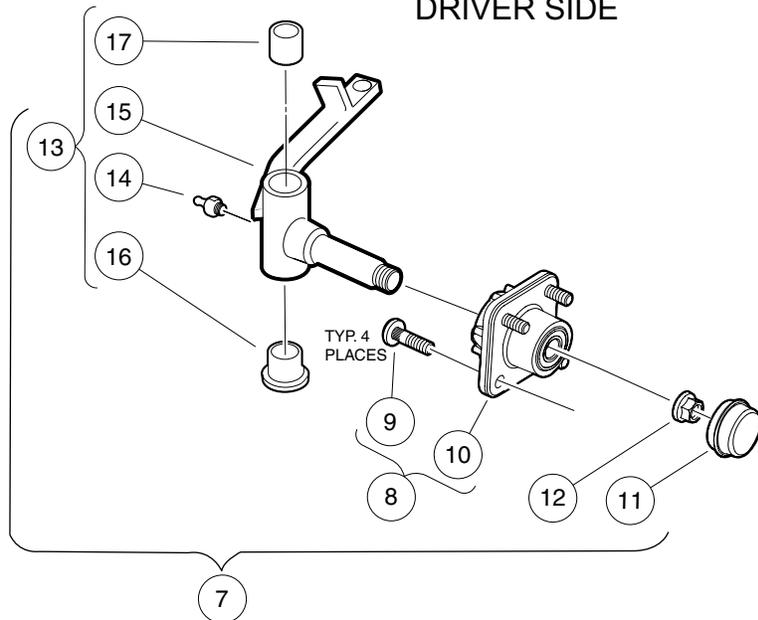
| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 102357701 | Replacement Kit, Front Hub (includes items 2 through 6) .....       | 2   |
| 2    | N/A       | Front Hub Assembly, Ball Bearing (includes items 3 and 4) .....     | 1   |
| 3    | 102353401 | Lug Stud, 1/2-20 UNF, 4037 Stl .....                                | 4   |
| 4    | N/A       | Hub, Front .....  | 1   |
| 5    | 102353201 | Cap, Front Hub .....  | 1   |
| 6    | 102353301 | Hex Nut, Locking Flange, M14x2 .....                                | 1   |
| 7    | N/A       | Asm, Front Hub And Spindle, Lh (includes items 8 through 13) .....  | 1   |
| 8    | N/A       | Front Hub Assembly, Ball Bearing (includes items 9 and 10) .....    | 1   |
| 9    | 102353401 | Lug Stud, 1/2-20 UNF, 4037 Stl .....                                | 4   |
| 10   | N/A       | Hub, Front .....  | 1   |
| 11   | 102353201 | Cap, Front Hub .....  | 1   |
| 12   | 102353301 | Hex Nut, Locking Flange, M14x2 .....                                | 1   |
| 13   | 102354203 | Assembly, Spindle, Left-Hand (includes items 14 through 17) .....   | 1   |
| 14   | 1015597   | Fitting, 1/4-28 Thread-Forming Grease .....                         | 1   |
| 15   | N/A       | Sub-Assembly, Spindle, Left-Hand .....                              | 1   |
| 16   | 7048      | Bushing, Flanged Bronze .....                                       | 1   |
| 17   | 8067      | Bushing, Bronze Spindle .....                                       | 1   |
| 18   | N/A       | Asm, Front Hub And Spindle, Rh (includes items 19 through 24) ..... | 1   |
| 19   | N/A       | Front Hub Assembly, Ball Bearing (includes items 20 and 21) .....   | 1   |
| 20   | 102353401 | Lug Stud, 1/2-20 UNF, 4037 Stl .....                                | 4   |
| 21   | N/A       | Hub, Front .....  | 1   |
| 22   | 102353201 | Cap, Front Hub .....  | 1   |
| 23   | 102353301 | Hex Nut, Locking Flange, M14x2 .....                                | 1   |
| 24   | 102354103 | Assembly, Spindle, Right-Hand (includes items 25 through 28) .....  | 1   |
| 25   | 1015597   | Fitting, 1/4-28 Thread-Forming Grease .....                         | 1   |
| 26   | N/A       | Sub-Assembly, Spindle, Right-Hand .....                             | 1   |
| 27   | 7048      | Bushing, Flanged Bronze .....                                       | 1   |
| 28   | 8067      | Bushing, Bronze Spindle .....                                       | 1   |
| 29   | 102851601 | Plate, Wheel Spacer .....   | 2   |

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PASSENGER SIDE

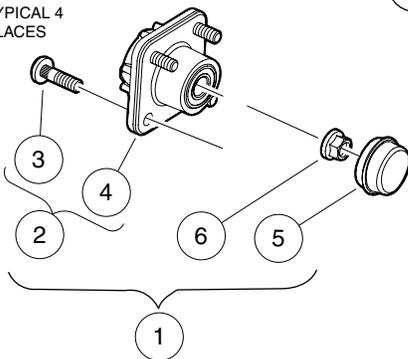


DRIVER SIDE



REPLACEMENT HUB FOR DRIVER OR PASSENGER SIDE

TYPICAL 4 PLACES



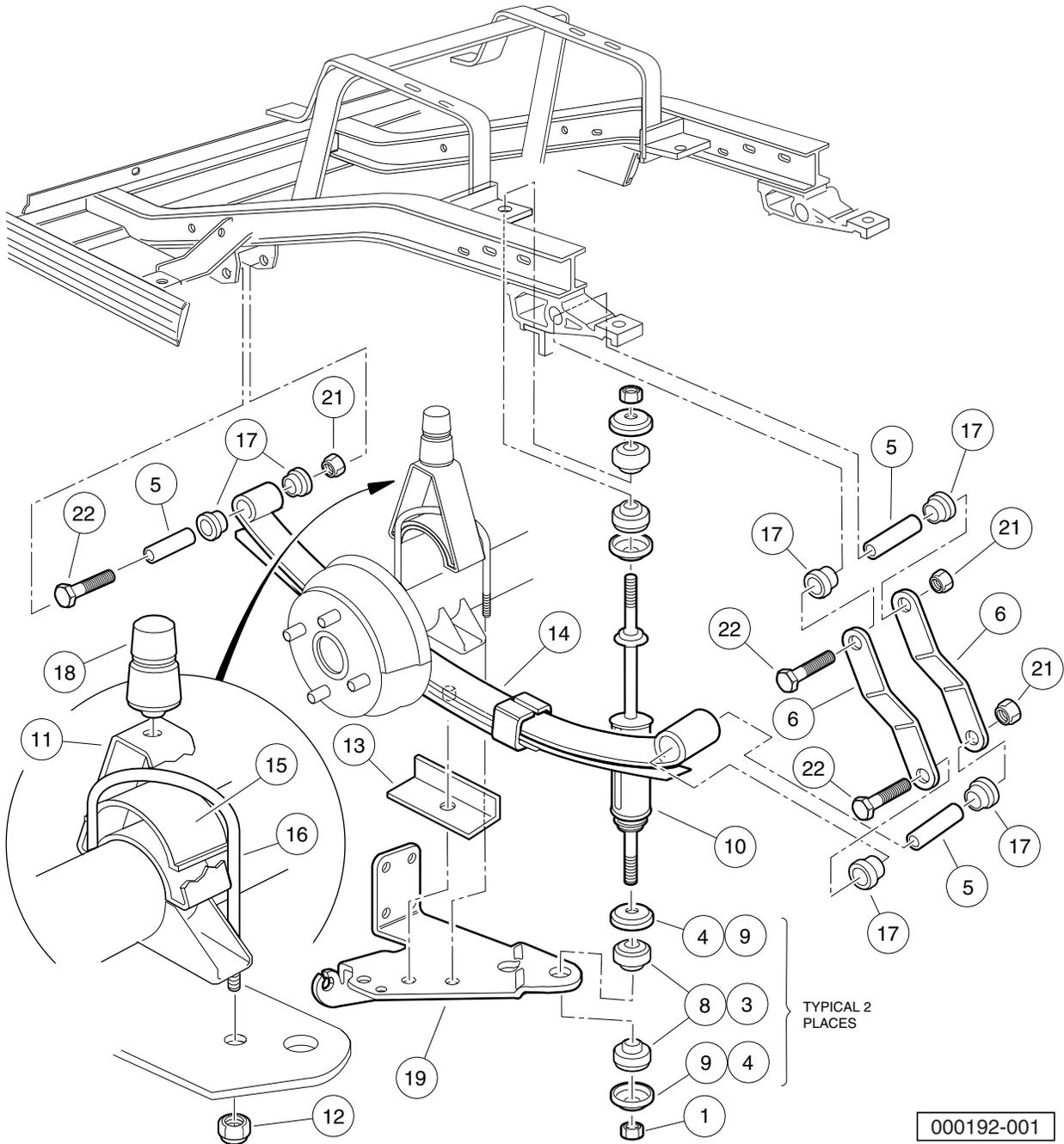
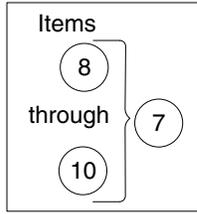
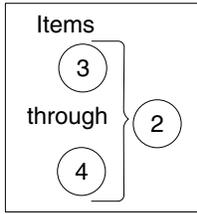
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# FRONT SPINDLES AND HUBS – LATER STYLE

| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 102357701 | Replacement Kit, Front Hub (includes items 2 through 6) .....     | 2   |
| 2    | N/A       | Front Hub Assembly, Ball Bearing (includes items 3 and 4) .....   | 1   |
| 3    | 102353401 | Lug Stud, 1/2-20 UNF, 4037 Stl .....                              | 4   |
| 4    | N/A       | Hub, Front .....  | 1   |
| 5    | 102353201 | Cap, Front Hub .....  | 1   |
| 6    | 102353301 | Hex Nut, Locking Flange, M14x2 .....                              | 1   |
| 7    | N/A       | Asm, Hub And Spindle, Lh Ext (includes items 8 through 13) .....  | 1   |
| 8    | N/A       | Front Hub Assembly, Ball Bearing (includes items 9 and 10) .....  | 1   |
| 9    | 102353401 | Lug Stud, 1/2-20 UNF, 4037 Stl .....                              | 4   |
| 10   | N/A       | Hub, Front .....  | 1   |
| 11   | 102353201 | Cap, Front Hub .....  | 1   |
| 12   | 102353301 | Hex Nut, Locking Flange, M14x2 .....                              | 1   |
| 13   | 102354204 | Asm, Spindle, LH, Ext (includes items 14 through 17) .....        | 1   |
| 14   | 1015597   | Fitting, 1/4-28 Thread-Forming Grease .....                       | 1   |
| 15   | 102354402 | Subasm, Spindle, Lh, Ext .....                                    | 1   |
| 16   | 7048      | Bushing, Flanged Bronze .....                                     | 1   |
| 17   | 8067      | Bushing, Bronze Spindle .....                                     | 1   |
| 18   | N/A       | Asm, Hub And Spindle, Rh Ext (includes items 19 through 24) ..... | 1   |
| 19   | N/A       | Front Hub Assembly, Ball Bearing (includes items 20 and 21) ..... | 1   |
| 20   | 102353401 | Lug Stud, 1/2-20 UNF, 4037 Stl .....                              | 4   |
| 21   | N/A       | Hub, Front .....  | 1   |
| 22   | 102353201 | Cap, Front Hub .....  | 1   |
| 23   | 102353301 | Hex Nut, Locking Flange, M14x2 .....                              | 1   |
| 24   | 102354104 | Asm, Spindle, RH, Ext (includes items 25 through 28) .....        | 1   |
| 25   | 1015597   | Fitting, 1/4-28 Thread-Forming Grease .....                       | 1   |
| 26   | 102354302 | Subasm, Spindle, Rh, Ext .....                                    | 1   |
| 27   | 7048      | Bushing, Flanged Bronze .....                                     | 1   |
| 28   | 8067      | Bushing, Bronze Spindle .....                                     | 1   |

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# REAR SUSPENSION

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1010145   | Nut, 3/8-24 Hex .....                                      | 4   |
| 2    | 1011415   | Kit, Shock Absorber Cushion (includes items 3 and 4) ..... | 4   |
| 3    | N/A       | Cushion, Shock Absorber .....                              | 2   |
| 4    | N/A       | Retainer, Shock Absorber Cushion .....                     | 2   |
| 5    | 1012303   | Bushing, Steel .....                                       | 6   |
| 6    | 1012304   | Shackle, Rear Spring .....                                 | 4   |
| 7    | 1013164   | Shock Absorber Kit (includes items 8 through 10) .....     | 1   |
| 8    | N/A       | Cushion, Shock Absorber .....                              | 8   |
| 9    | N/A       | Retainer, Shock Absorber Cushion .....                     | 8   |
| 10   | 102706401 | Shock Absorber Rear .....                                  | 2   |
| 11   | 101454902 | Bumper Mount, Angled .....                                 | 2   |
| 12   | 1014555   | Locknut, 7/16-14 Nylon Insert .....                        | 4   |
| 13   | 1014573   | Spring Retainer .....                                      | 2   |
| 14   | 1014675   | Rear Leaf Spring .....                                     | 2   |
| 15   | 1014901   | Spacer, Overload Bumper .....                              | 2   |
| 16   | 1014902   | U-Bolt .....   | 2   |
| 17   | 1015583   | Bushing, Urethane .....                                    | 12  |
| 18   | 1017235   | Bumper, Jounce .....                                       | 2   |
| 19   | 101926501 | Bracket, Left-Hand .....                                   | 1   |
| 20   | 101929401 | Bracket, Right .....                                       | 1   |
| 21   | 8754      | Locknut, 3/8-16 Hex .....                                  | 6   |
| 22   | 8755      | Screw, 3/8-16 X 3.375 Hex Cap .....                        | 6   |

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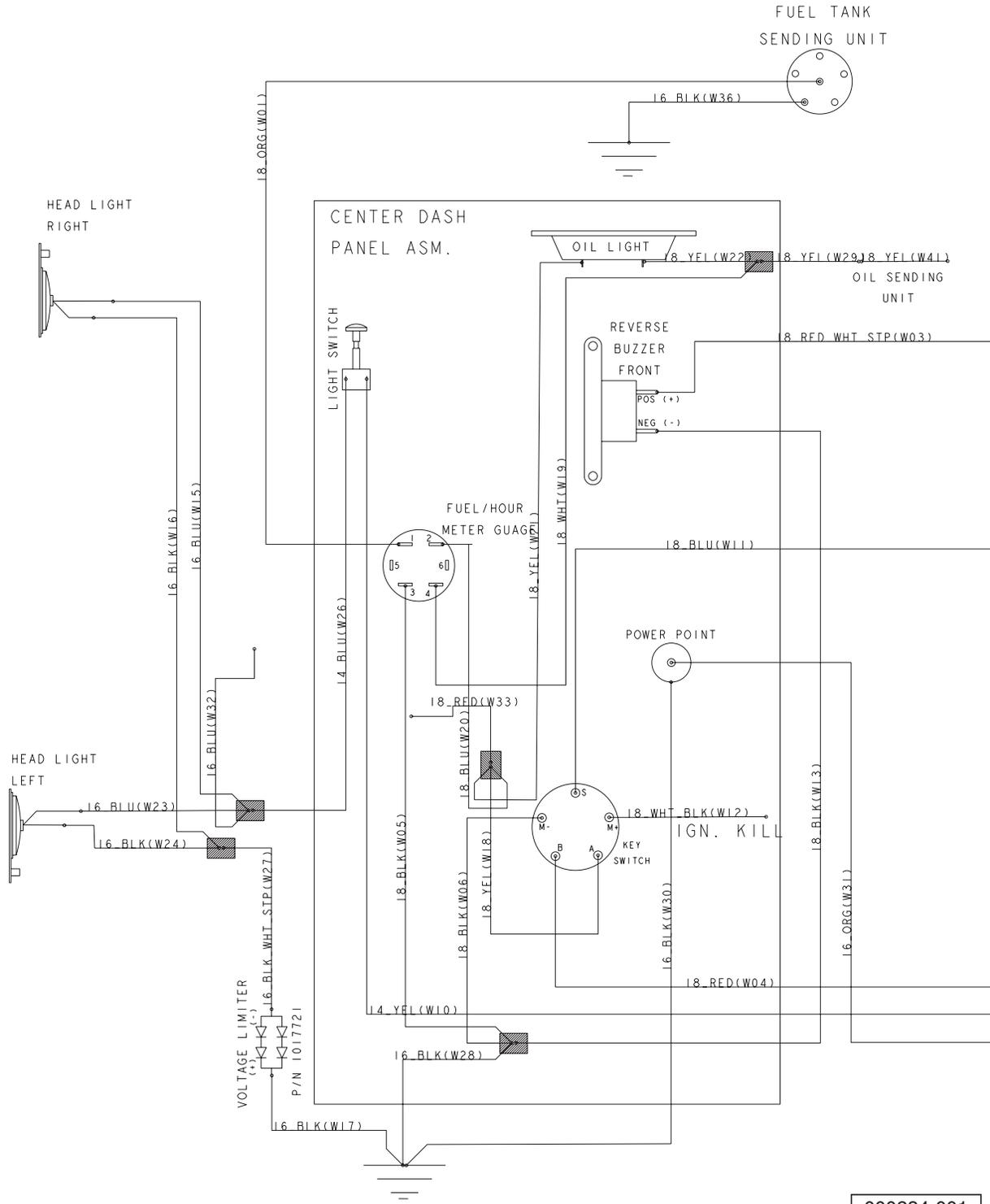
# **ELECTRICAL SYSTEM – GASOLINE VEHICLES**

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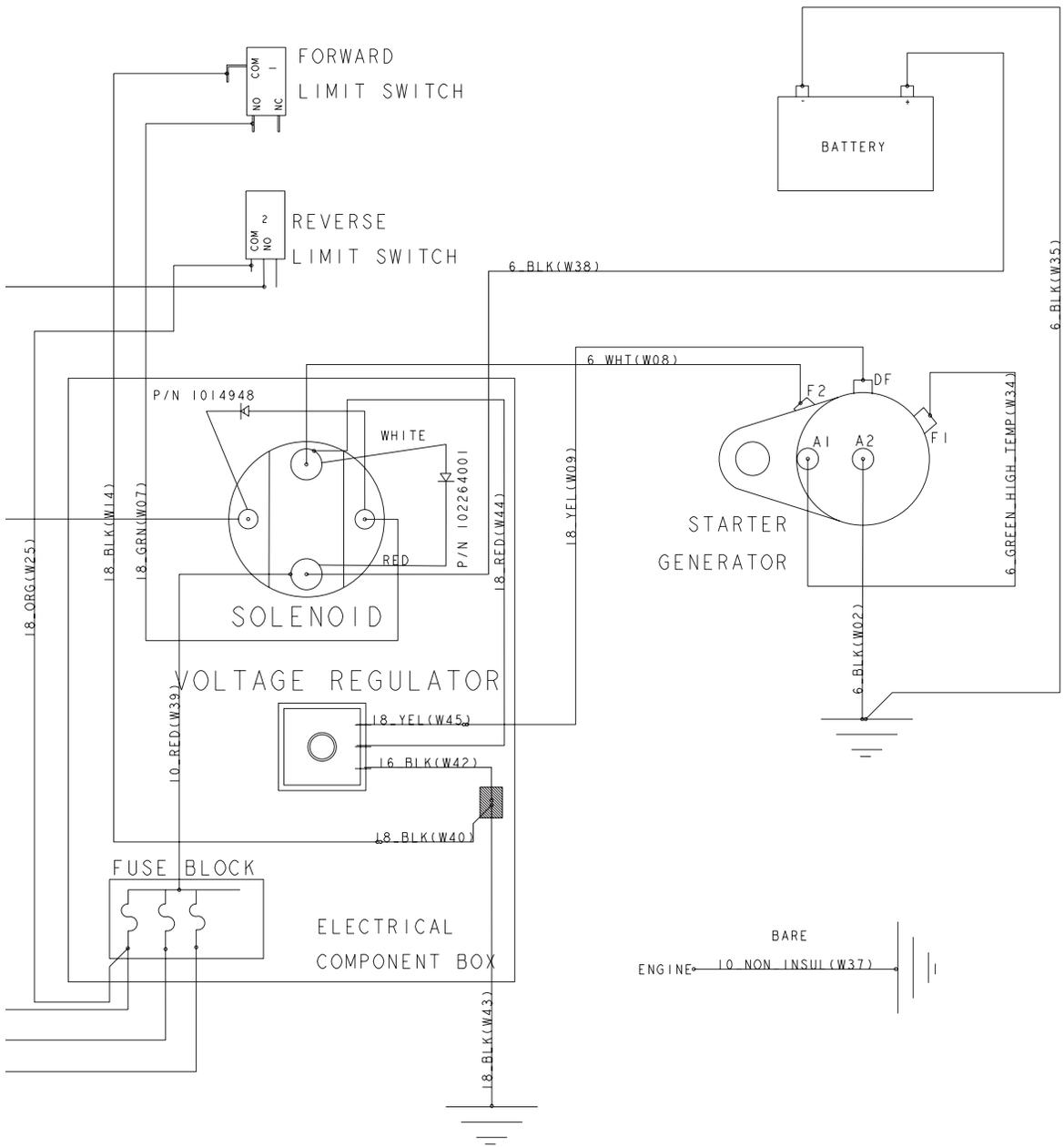
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# GASOLINE VEHICLE



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See previous two pages for diagram.

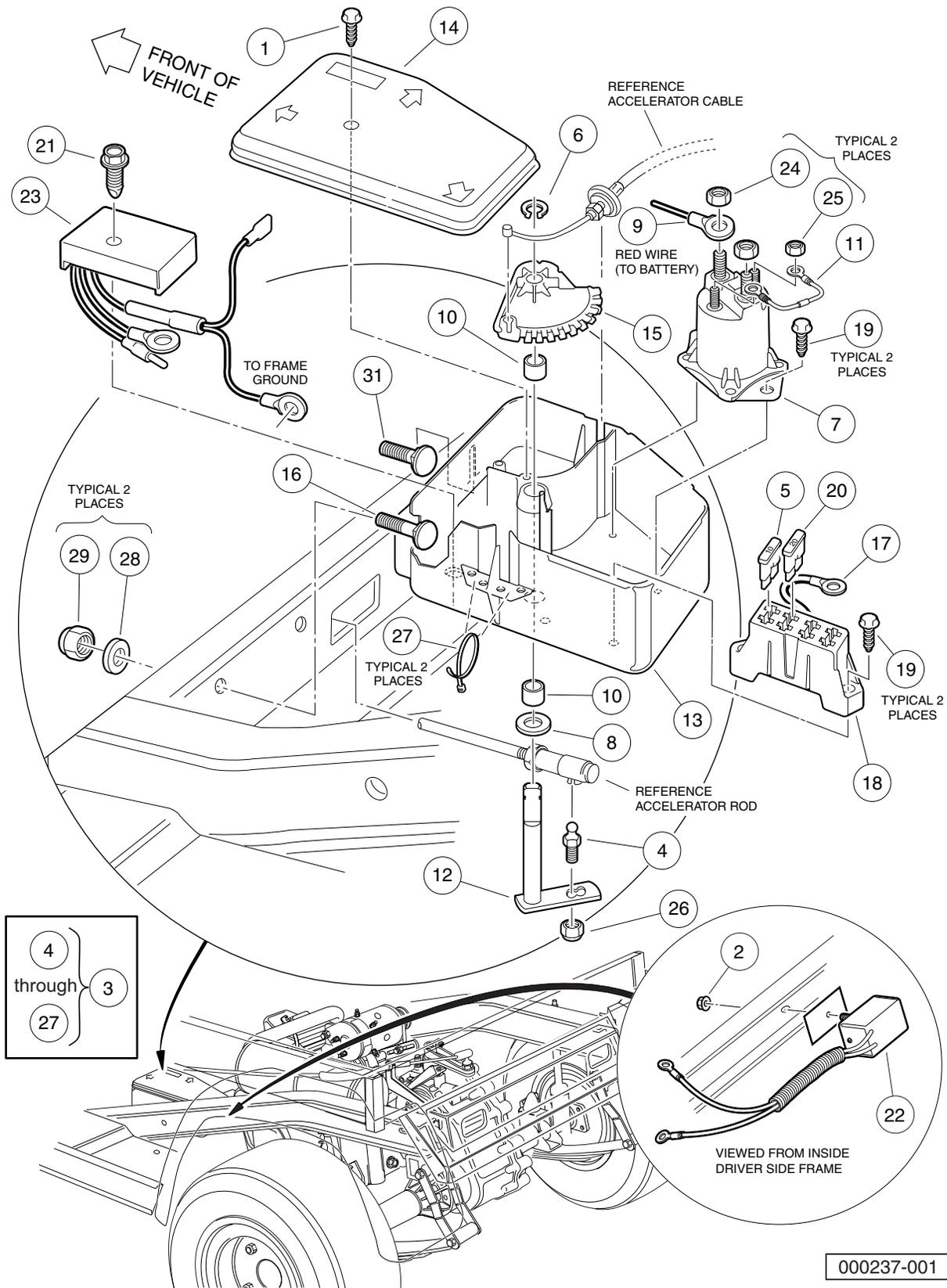
# WIRING – GASOLINE VEHICLE

| ITEM | PART NO.  | DESCRIPTION                                     | QTY |
|------|-----------|---|-----|
| 1    | 102803001 | 1 2 3 4<br>Wire Harness, Gasoline Vehicle ..... | 1   |

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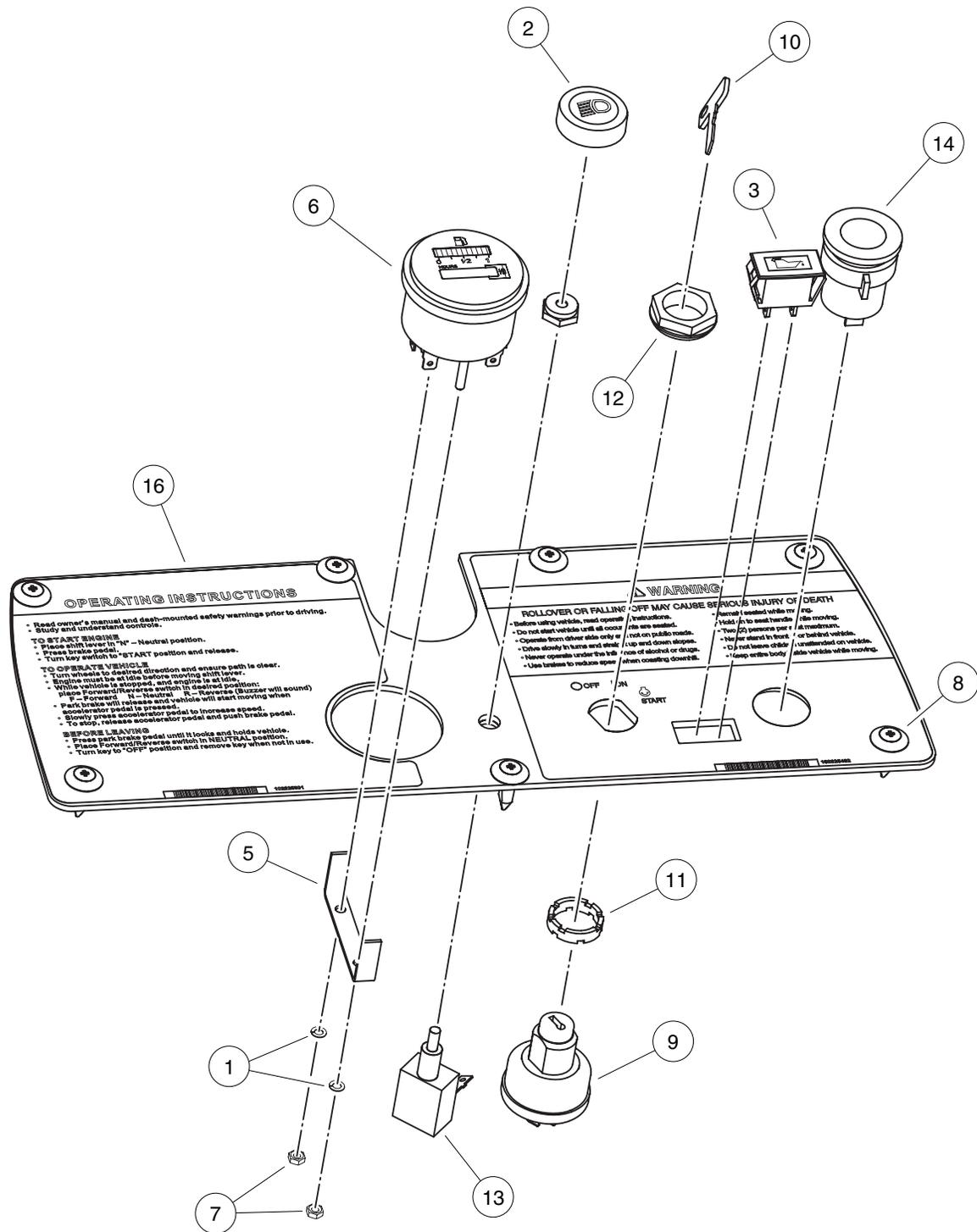
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# ELECTRICAL COMPONENT BOX – GASOLINE VEHICLE

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1015752   | Screw, #12-16 X 0.625 Hi-Lo .....                                      | 1   |
| 2    | 101963401 | Locknut, 5/16-18 Hex Flange .....                                      | 1   |
| 3    | N/A       | Assembly, Electrical Component Box (includes items 4 through 27) ..... | 1   |
| 4    | 1010954   | Stud, 1/4-28 X 0.560 Ball .....  | 1   |
| 5    | 1012295   | Fuse, 10-Amp .....   | 1   |
| 6    | 1013589   | Ring, 0.338" Internal Retaining .....                                  | 1   |
| 7    | 1013609   | Solenoid, 12-Volt .....  | 1   |
| 8    | 1014065   | Washer, 0.38" ID Delrin Flat .....                                     | 1   |
| 9    | 1014119   | Wire Assembly #6 Red .....   | 1   |
| 10   | 1014145   | Bushing, Secondary Weight, Split .....                                 | 2   |
| 11   | 1014948   | Diode .....  | 1   |
| 12   | 1015345   | Bell Crank and Shaft Assembly .....                                    | 1   |
| 13   | 1015371   | Box, Electrical Component .....  | 1   |
| 14   | 1015372   | Cover, Electric Box .....  | 1   |
| 15   | 1015373   | Cam, Electric Box .....  | 1   |
| 16   | 1015405   | Bolt, Carriage, 5/16-18 X 2.0 .....                                    | 1   |
| 17   | 1015737   | Wire Assy, #10 Red .....   | 1   |
| 18   | 1015741   | Fuse Block .....   | 1   |
| 19   | 1015752   | Screw, #12-16 X 0.625 Hi-Lo .....                                      | 4   |
| 20   | 1016423   | Fuse, 20-Amp .....   | 1   |
| 21   | 101856102 | Screw, 1/4-15 X 1.50 Hi-lo Hex .....                                   | 1   |
| 22   | 102264001 | Diode Assembly .....   | 1   |
| 23   | 102711201 | Voltage Regulator .....  | 1   |
| 24   | 1242      | Nut, 5/16-18 Hex .....   | 2   |
| 25   | 7893      | Nut, #10-32 Hex .....  | 2   |
| 26   | 8717      | Locknut, 1/4-28 Nylon Insert .....                                     | 1   |
| 27   | 8990      | Tie Wrap, 8" Nylon .....   | 2   |
| 28   | 1241      | Washer, 5/16 Type A Flat .....   | 2   |
| 29   | 7473      | Locknut, 5/16-18 Nylon Insert .....                                    | 2   |
| 30   | 7818      | Bolt, Carriage, 5/16-18 X 1.5 .....                                    | 1   |

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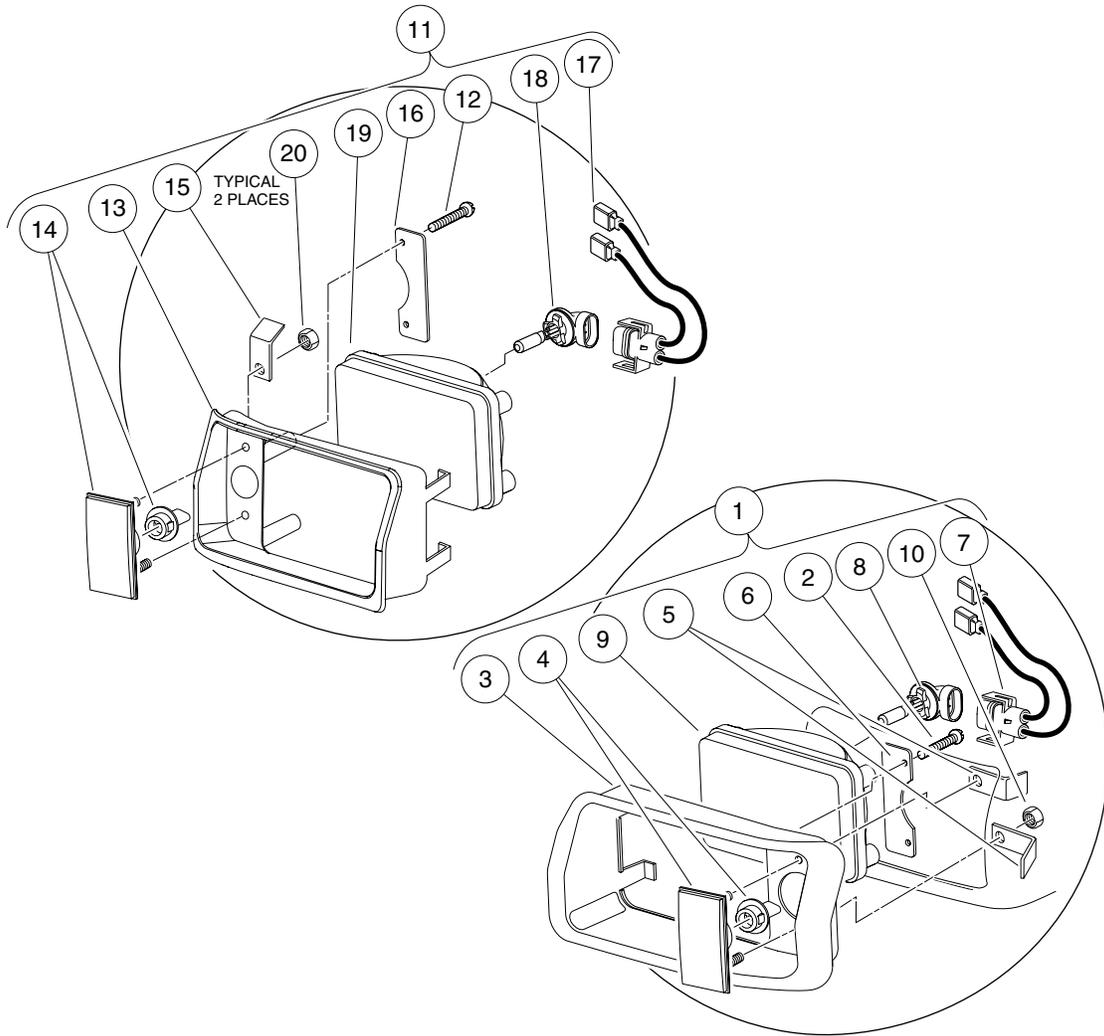


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# ELECTRICAL COMPONENTS, FRONT BODY – GASOLINE VEHICLE

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1012986   | Lockwasher, M4 .....   | 2   |
| 2    | 1013857   | Knob, Light Switch .....   | 1   |
| 3    | 1016630   | Light, Oil .....   | 1   |
| 4    | 101990703 | Gauge, Fuel/Hour, with Bracket (includes items 5 and 6) .....                  | 1   |
| 5    | 102025901 | Bracket, Fuel Gauge/Hour Meter .....   | 1   |
| 6    | N/A       | Gauge, Fuel/Hour .....   | 1   |
| 7    | 101991101 | Nut, M4-0.7 .....  | 2   |
| 8    | 102025701 | Screw, Tuflok Panel, 1/4 .....   | 7   |
| 9    | 102044702 | Key Switch 12v Key Start .....   | 1   |
| 10   | 102044801 | Key Set (1 pair) .....   | A/R |
| 11   | 102051601 | Spacer, Keyswitch .....  | 1   |
| 12   | 102051701 | Nut, Key Switch .....  | 1   |
| 13   | 102051901 | Switch, Light .....  | 1   |
| 14   | 102198001 | Receptacle, Accessory * .....  | 1   |
| 15   | 102804501 | Panel, Instrument .....  | 1   |
| 16   | 102804502 | Panel, Instrument (with 12-Volt Accessory Outlet Cutout) .....                 | 1   |
|      |           | * Note: This item to be used only in vehicles equipped with accessory outlets. |     |

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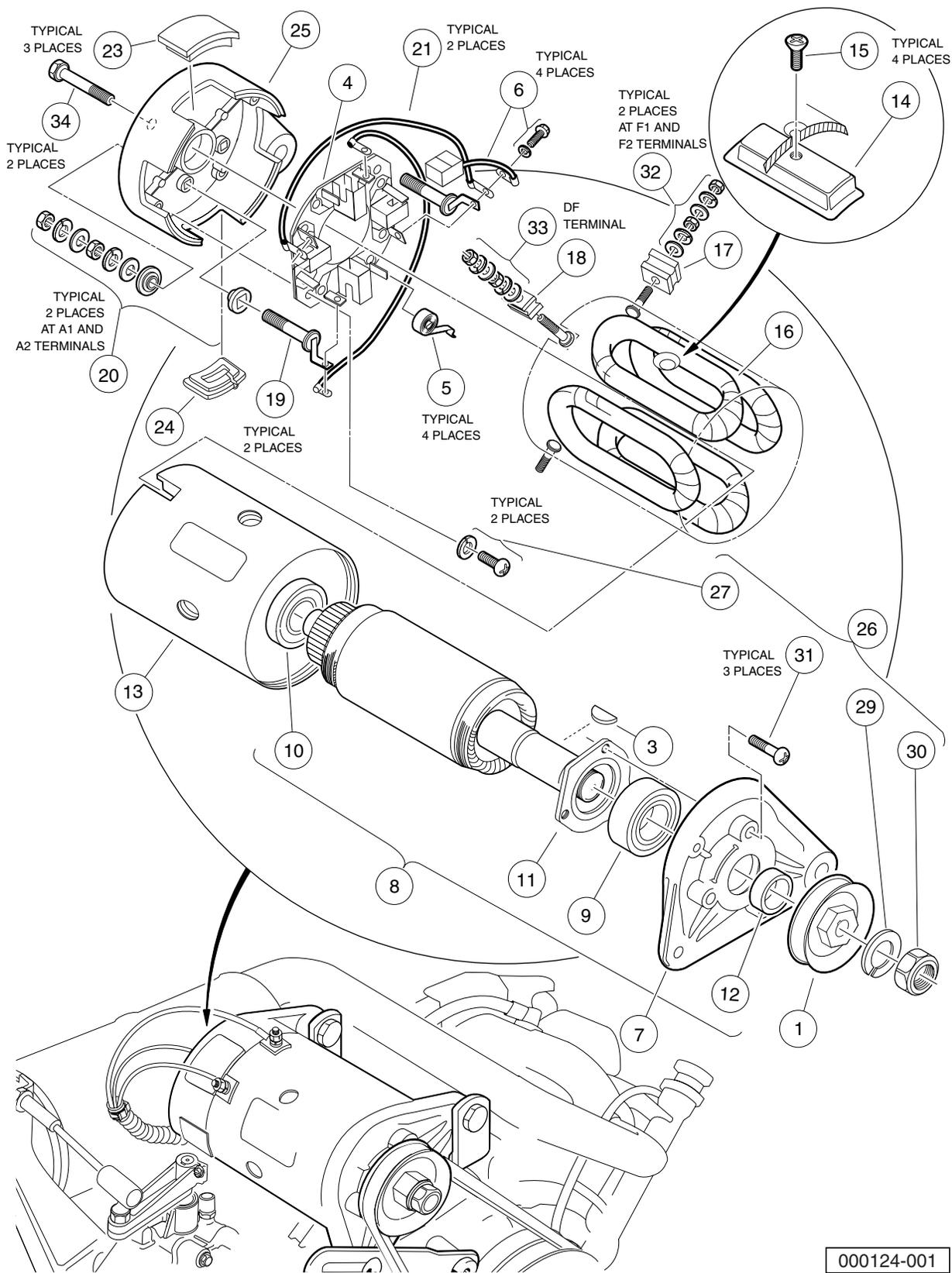


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# HEADLIGHTS

| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 101988001 | Headlight Assembly, Driver-Side Single Beam (includes items 2 through 10) ..... | 1   |
| 2    | 1013461   | Screw, #10-16 Hex-Head Hi-Lo .....  | 2   |
| 3    | 1016880   | Headlight Bezel, Left .....   | 1   |
| 4    | 1017062   | Turn Signal Lens Assy .....   | 1   |
| 5    | 1017064   | Mounting Bracket .....  | 2   |
| 6    | 1017065   | Retainer, Headlight .....   | 1   |
| 7    | 101987901 | Connector Harness Assembly, Headlight .....                                     | 1   |
| 8    | 101988101 | Bulb, Headlight .....   | 1   |
| 9    | 101988201 | Lens, Headlight .....   | 1   |
| 10   | 7893      | Nut, #10-32 Hex .....   | 2   |
| 11   | 101988002 | Headlight Assy, Passenger-Side Single Beam (includes items 12 through 20) ....  | 1   |
| 12   | 1013461   | Screw, #10-16 Hex-Head Hi-Lo .....  | 2   |
| 13   | 1016879   | Headlight Bezel, Right .....  | 1   |
| 14   | 1017062   | Turn Signal Lens Assy .....   | 1   |
| 15   | 1017064   | Mounting Bracket .....  | 2   |
| 16   | 1017065   | Retainer, Headlight .....   | 1   |
| 17   | 101987901 | Connector Harness Assembly, Headlight .....                                     | 1   |
| 18   | 101988101 | Bulb, Headlight .....   | 1   |
| 19   | 101988201 | Lens, Headlight .....   | 1   |
| 20   | 7893      | Nut, #10-32 Hex .....   | 2   |

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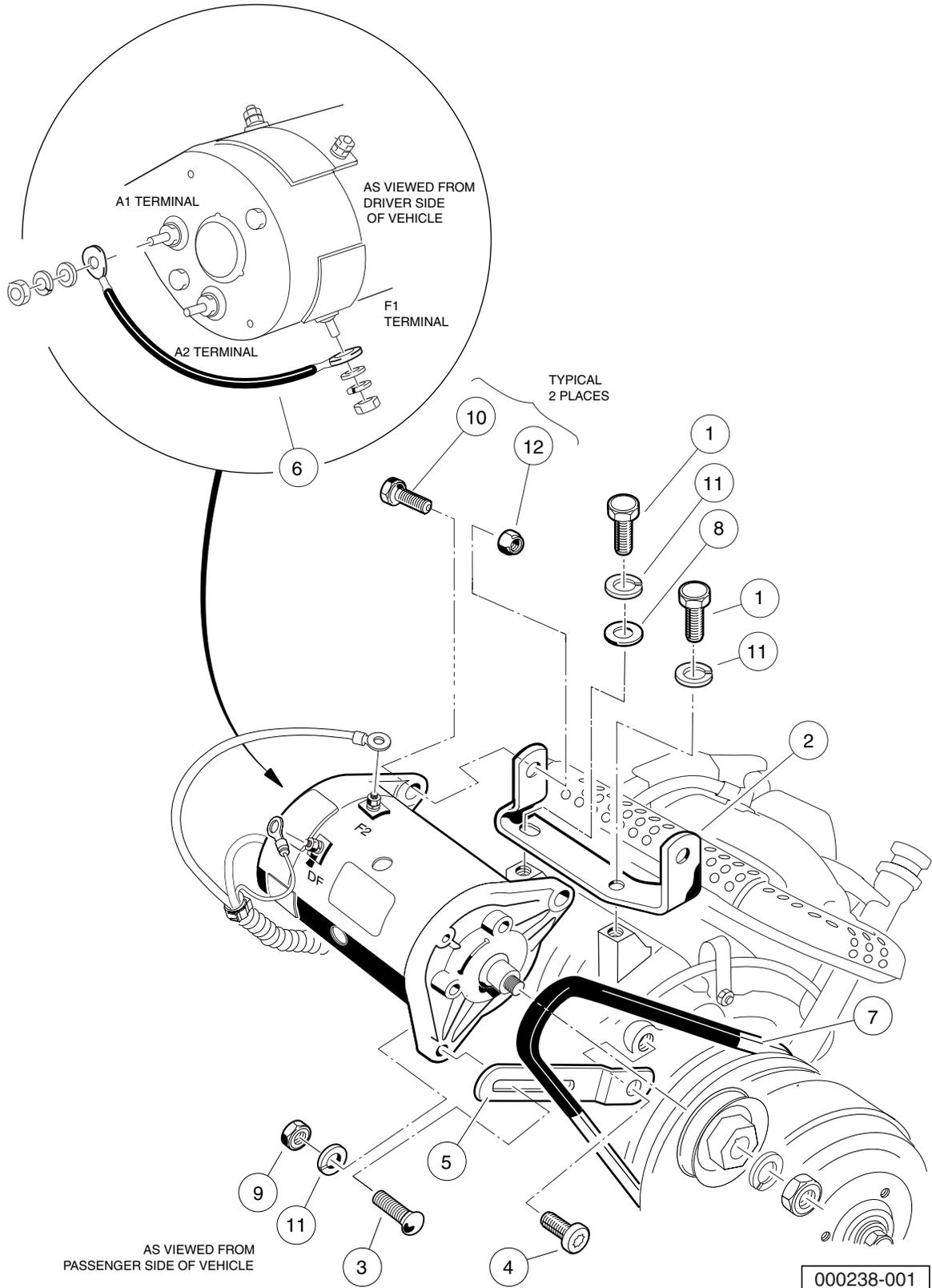
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# STARTER/GENERATOR ASSEMBLY – GASOLINE VEHICLES

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1014289   | Pulley, Starter/Generator .....                            | 1   |
| 2    | 101833701 | Starter/Generator (cw) (includes items 3 through 34) ..... | 1   |
| 3    | 1013003   | Key, Starter/Generator .....                               | 1   |
| 4    | 101301102 | Brush Holder Assembly (cw) (includes item 5) .....         | 1   |
| 5    | 101878101 | Brush Spring Set .....                                     | 4   |
| 6    | 101869302 | Brush and Screw Set (cw) .....                             | 1   |
| 7    | 101874901 | Front Bracket .....  | 1   |
| 8    | 101875101 | Armature (includes items 9 through 12) .....               | 1   |
| 9    | 1013001   | Bearing, Output Shaft Ball .....                           | 1   |
| 10   | 1013005   | Bearing, Ball .....  | 1   |
| 11   | 101875001 | Retainer .....   | 1   |
| 12   | 101939901 | Spacer .....   | 1   |
| 13   | 101875201 | Field Coil Housing .....                                   | 1   |
| 14   | 101875301 | Pole Set .....   | 1   |
| 15   | 101875401 | Screw Set .....  | 1   |
| 16   | 101875501 | Field Stator Coil Assembly .....                           | 1   |
| 17   | 101875601 | F Insulator Set .....                                      | 2   |
| 18   | 101875701 | DF Insulator .....   | 1   |
| 19   | 101875802 | A Connector (cw) .....                                     | 1   |
| 20   | 101876001 | Screw and Mold Assembly .....                              | 2   |
| 21   | 101876202 | Brush Connector Assembly (cw) .....                        | 2   |
| 22   | 101876301 | Cover Set (includes items 23 and 24) .....                 | 1   |
| 23   | N/A       | Brush Inspection Port Cover .....                          | 3   |
| 24   | N/A       | Brush Port Cover w/Drain .....                             | 1   |
| 25   | 101876402 | Rear Bracket (cw) .....                                    | 1   |
| 26   | 101876501 | Nut and Screw Set (includes items 27 through 31) .....     | 1   |
| 27   | 101896501 | Brush Holder Asm Screw .....                               | 2   |
| 28   | N/A       | Washer, M5 Flat .....                                      | 1   |
| 29   | N/A       | Washer, M14 Lock .....                                     | 1   |
| 30   | N/A       | Nut, Hex, M14 x 2 .....                                    | 1   |
| 31   | N/A       | Screw, M5 x 0.8 x 18mm .....                               | 3   |
| 32   | 101877601 | Nut and Washer Set .....                                   | 2   |
| 33   | 101877701 | Nut and Washer Set .....                                   | 1   |
| 34   | 101879001 | Through Bolt Set .....                                     | 2   |
|      |           | Note: Item 28 is not used in this application.             |     |

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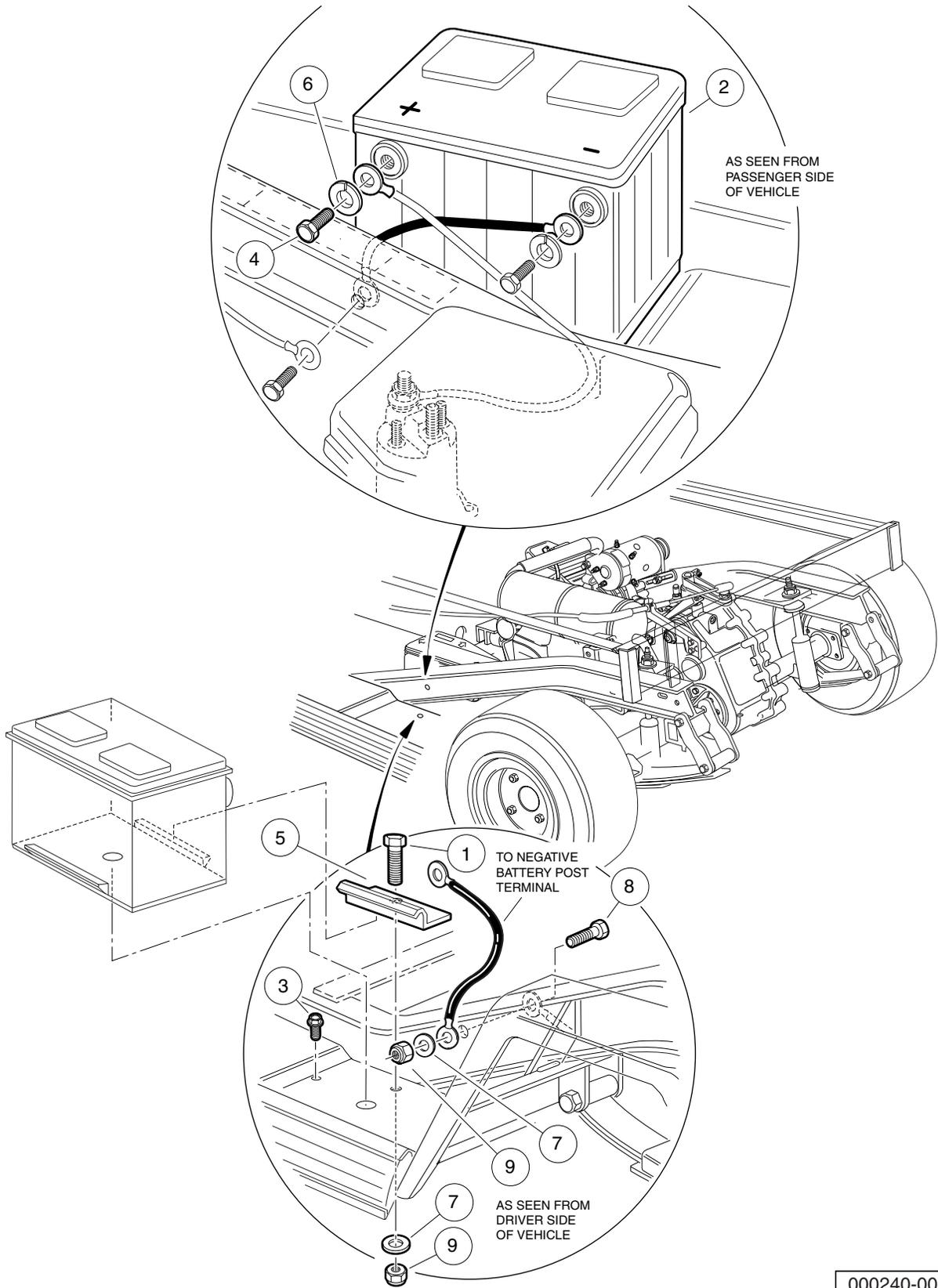


# FE290 STARTER/GENERATOR MOUNTING – GASOLINE VEHICLE

| ITEM | PART NO.  | DESCRIPTION                                       | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 1012830   | Screw, M8-125 X 22 Hex-Head .....                 | 2   |
| 2    | 101524001 | Bracket, Starter/Generator Mounting (FE290) ..... | 1   |
| 3    | 1015932   | Bolt, Carriage, 5/16-18 .....                     | 1   |
| 4    | 1016074   | Screw, M8-1.25 X 18mm Torx .....                  | 1   |
| 5    | 1016883   | Bracket, Starter/Generator Adjustment .....       | 1   |
| 6    | 101837301 | Wire Assy, #6 Green .....                         | 1   |
| 7    | 101916701 | V-Belt .....                                      | 1   |
| 8    | 1241      | Washer, 5/16 Type A Flat .....                    | 1   |
| 9    | 1242      | Nut, 5/16-18 Hex .....                            | 1   |
| 10   | 705       | Bolt, 3/8-16 X 1.25 Hex Head .....                | 2   |
| 11   | 7174      | Lockwasher, 5/16 Split .....                      | 3   |
| 12   | 8754      | Locknut, 3/8-16 Hex .....                         | 2   |

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# BATTERY – GASOLINE VEHICLE

| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 1010934   | Screw, 5/16-18 X 1.00 Hex Cap .....                 | 1   |
| 2    | 1012328   | Battery, 12-Volt .....                              | 1   |
| 3    | 1014288   | Screw, 5/16-18 X 0.75 Thread-Forming .....          | 1   |
| 4    | 1014375   | Screw, 3/8-16 X 0.50 Stainless Steel Hex-Head ..... | 2   |
| 5    | 101898001 | Clamp, Battery .....                                | 1   |
| 6    | 102355301 | Lockwasher, 3/8 Stainless Stl .....                 | 2   |
| 7    | 1241      | Washer, 5/16 Type A Flat .....                      | 2   |
| 8    | 7173      | Screw, 5/16-18 X 0.75 Hex-Head Cap .....            | 1   |
| 9    | 7473      | Locknut, 5/16-18 Nylon Insert .....                 | 2   |

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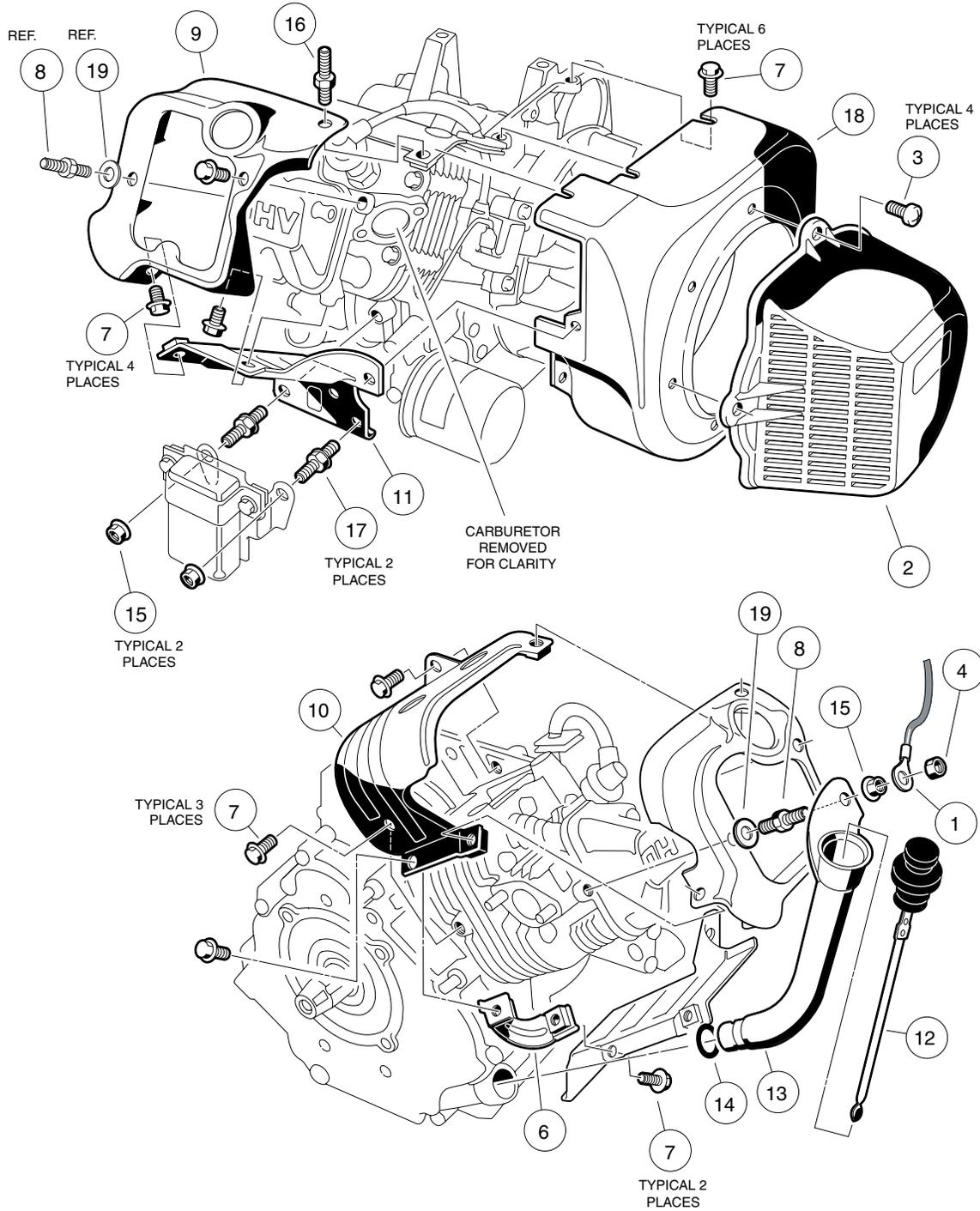
# FE290 ENGINE

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# FE290 ENGINE



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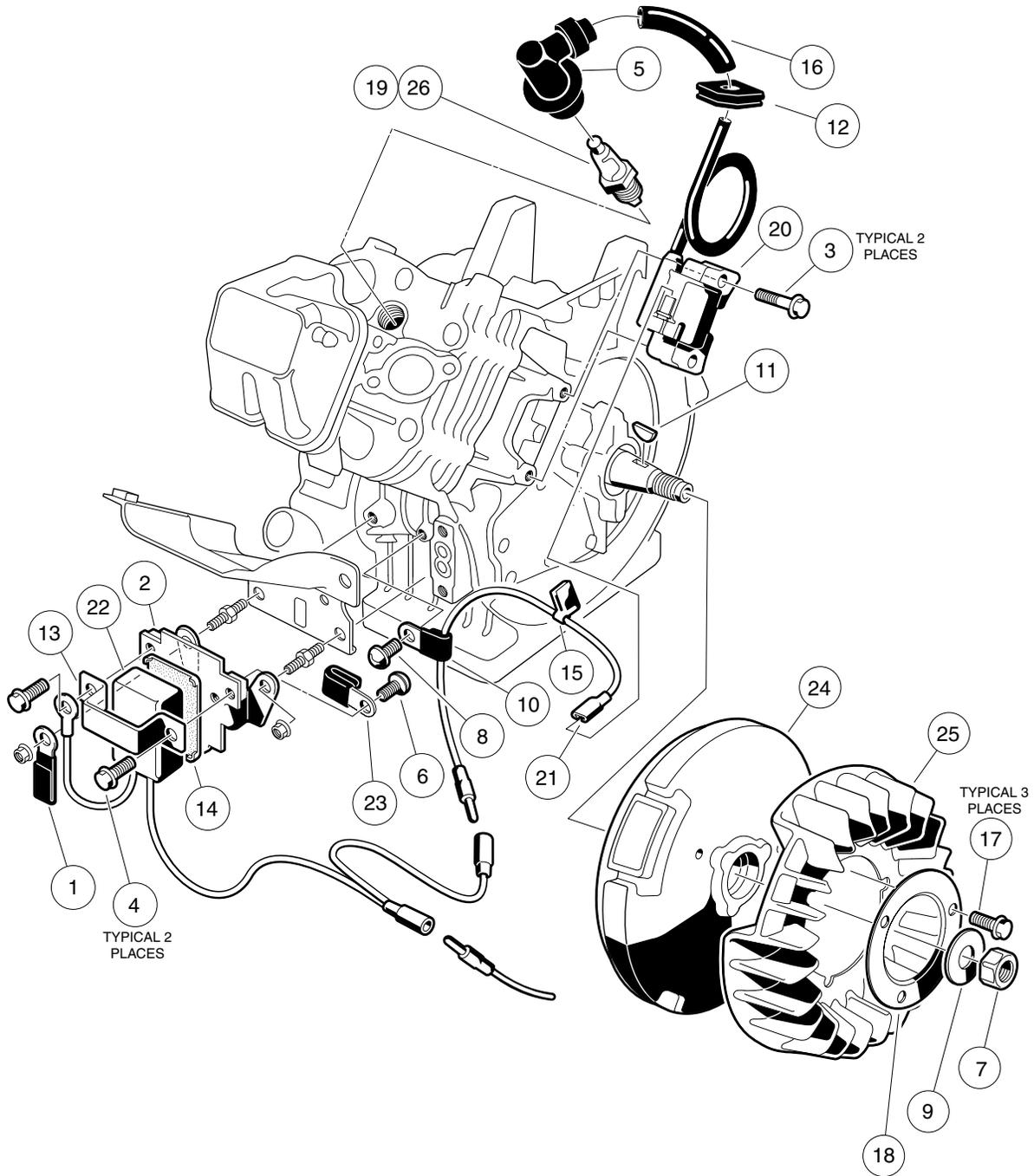
# FE290 ENGINE – SHROUDS AND BRACKETS

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



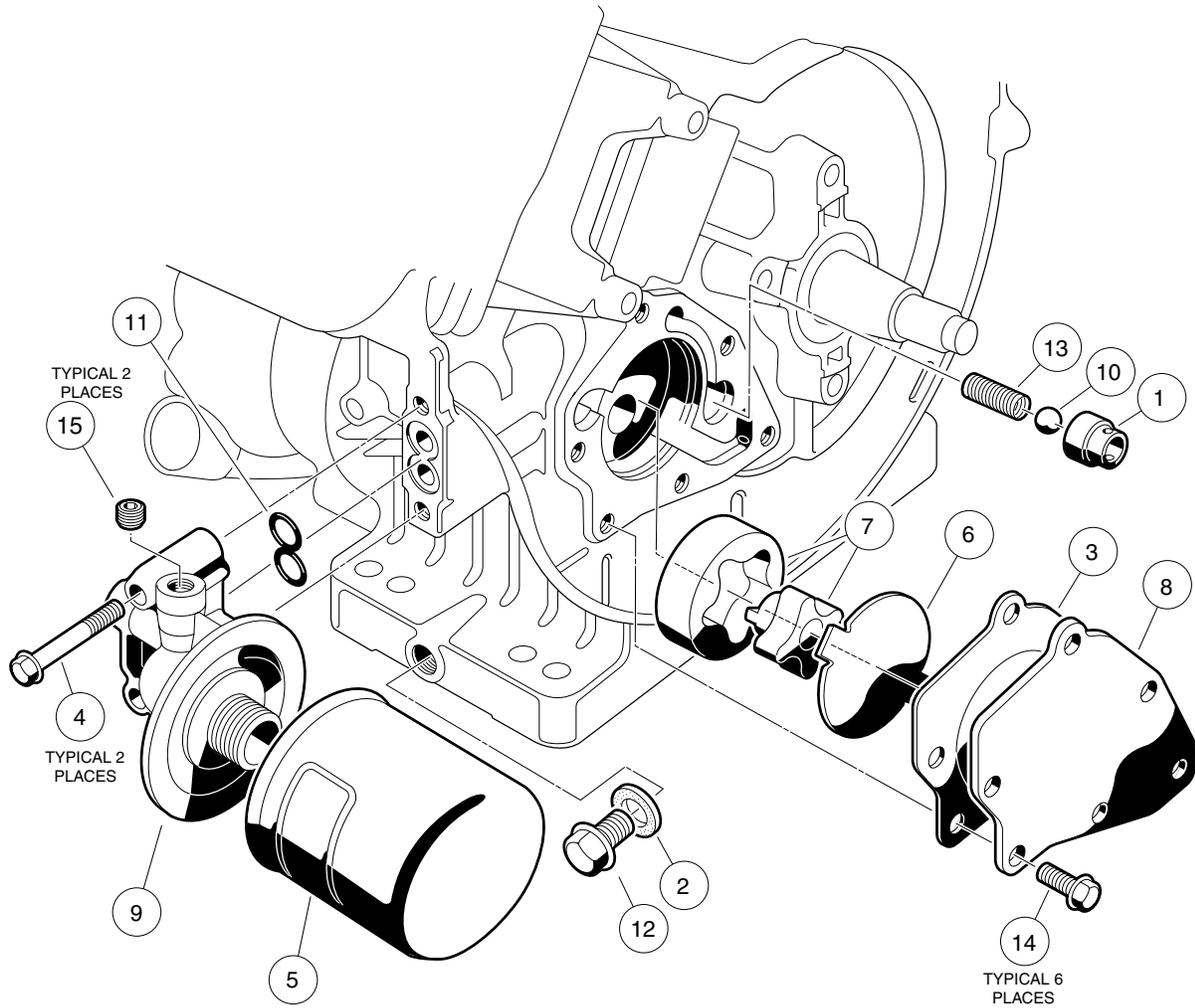
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# FE290 ENGINE – IGNITION COMPONENTS AND FLYWHEEL

| ITEM | PART NO.  | DESCRIPTION                             | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4                                 |     |
| 1    | 1012981   | Clamp .....                             | 1   |
| 2    | 1016445   | Bracket, RPM Limiter .....              | 1   |
| 3    | 1016455   | Bolt, Flange Head .....                 | 2   |
| 4    | 1016456   | Bolt, Flange Head, M6 x 1 x 12 mm ..... | 2   |
| 5    | 1016493   | Cap, Spark Plug .....                   | 1   |
| 6    | 1016497   | Screw, Pan WP Cross .....               | 1   |
| 7    | 1016505   | Nut, Hex, Fine .....                    | 1   |
| 8    | 1016544   | Screw .....                             | 1   |
| 9    | 1016548   | Washer, M16 Flat .....                  | 1   |
| 10   | 1016561   | Clamp .....                             | 1   |
| 11   | 1016562   | Key .....                               | 1   |
| 12   | 1016578   | Grommet .....                           | 1   |
| 13   | 1016579   | Band, RPM Limiter Mount .....           | 1   |
| 14   | 1016586   | Damper, RPM Limiter .....               | 1   |
| 15   | 1016587   | Clamp .....                             | 1   |
| 16   | 1016588   | Tube, 7mm X 10mm X 70mm .....           | 1   |
| 17   | 1017448   | Bolt, Flanged .....                     | 3   |
| 18   | 1017455   | Plate, Flywheel Fan .....               | 1   |
| 19   | 101881101 | Spark Plug, OHV (Autolite) .....        | 1   |
| 20   | 101909201 | Coil, Ignition .....                    | 1   |
| 21   | 101909301 | Lead Wire Assy .....                    | 1   |
| 22   | 101909401 | Limiter, RPM .....                      | 1   |
| 23   | 101909501 | Clamp, Steel .....                      | 1   |
| 24   | 101915701 | Flywheel Complete, FE290 .....          | 1   |
| 25   | 101915801 | Fan, FE290 (cw) .....                   | 1   |
| 26   | AM10724   | Spark Plug, OHV (NGK) .....             | 1   |

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# FE290 ENGINE



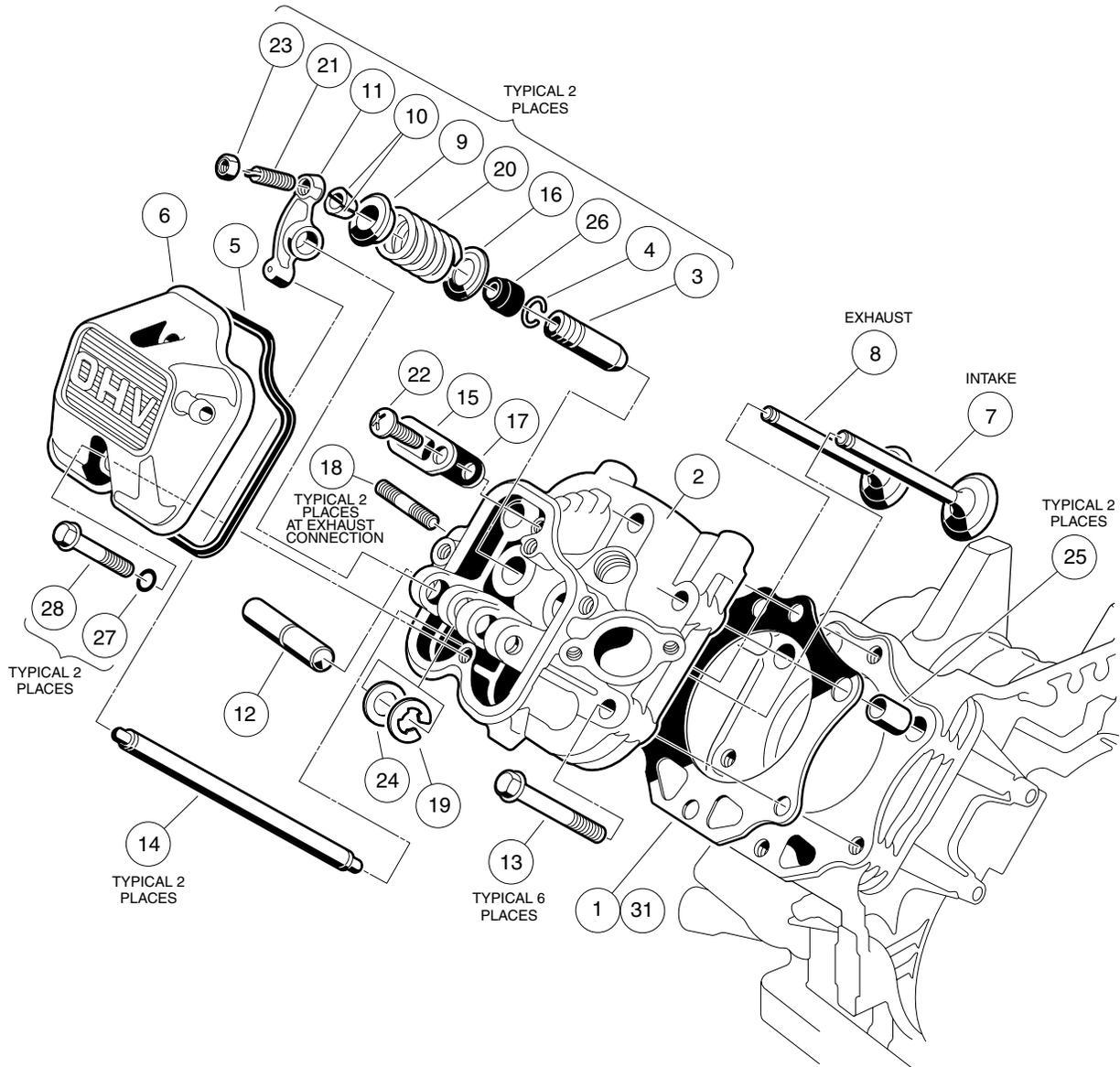
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# FE290 ENGINE – OIL CIRCULATION

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

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# FE290 ENGINE



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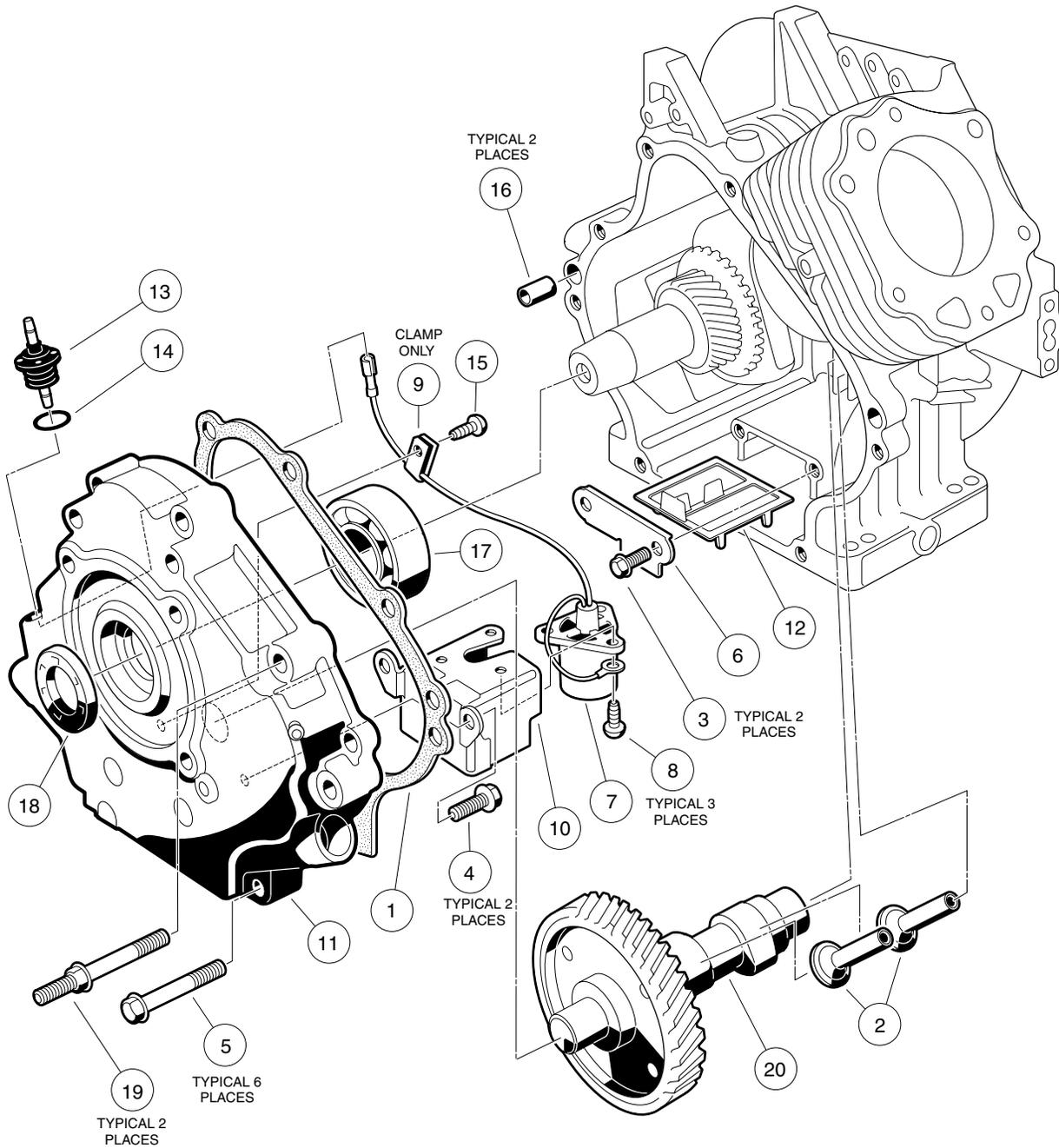
# FE290 ENGINE – CYLINDER HEAD

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1016430   | Gasket, Head, FE290 .....                                    | 1   |
| 2    | 1016431   | Head Assembly, FE290 Cylinder (includes items 3 and 4) ..... | 1   |
| 3    | 1016519   | Guide, Valve, Intake .....                                   | 2   |
| 4    | 1016560   | Snap Ring .....  | 2   |
| 5    | 1016436   | Gasket, Rocker Case .....                                    | 1   |
| 6    | 1016442   | Case, Rocker .....   | 1   |
| 7    | 1016447   | Valve, Intake .....  | 1   |
| 8    | 1016448   | Valve, Exhaust .....   | 1   |
| 9    | 1016449   | Retainer, Valve Spring .....                                 | 2   |
| 10   | 1016450   | Collet .....   | 4   |
| 11   | 1016451   | Arm, Rocker .....  | 2   |
| 12   | 1016452   | Shaft, Rocker .....  | 1   |
| 13   | 1016458   | Bolt, Flange Head, M8 x 1.25 x 45 mm .....                   | 6   |
| 14   | 1016471   | Rod, Push .....  | 2   |
| 15   | 1016474   | Plate .....  | 1   |
| 16   | 1016479   | Seat, Spring .....   | 2   |
| 17   | 1016483   | Valve .....  | 1   |
| 18   | 1016489   | Stud, Two-Ended, M8-1.25 .....                               | 2   |
| 19   | 1016517   | Circlip, Type-E .....  | 1   |
| 20   | 1016523   | Spring, Engine Valve .....                                   | 2   |
| 21   | 1016542   | Screw .....  | 2   |
| 22   | 1016544   | Screw .....  | 1   |
| 23   | 1016545   | Nut .....  | 2   |
| 24   | 1016549   | Washer, 12.1x19x1.8 .....                                    | 1   |
| 25   | 1016563   | Pin .....  | 2   |
| 26   | 1016566   | Seal, Oil .....  | 2   |
| 27   | 1016569   | O-Ring .....   | 2   |
| 28   | 1016583   | Bolt, 6x35 .....   | 2   |
| 29   | 102304701 | Kit, Gasket, FE290 (includes items 30 through 33) .....      | 1   |
| 30   | 1015330   | Gasket, Exhaust .....  | 1   |
| 31   | 1016430   | Gasket, Head, FE290 .....                                    | 1   |
| 32   | 1016440   | Gasket, Engine to Insulator .....                            | 1   |
| 33   | 1016446   | Gasket, Crankcase Cover .....                                | 1   |

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**FE290 ENGINE**



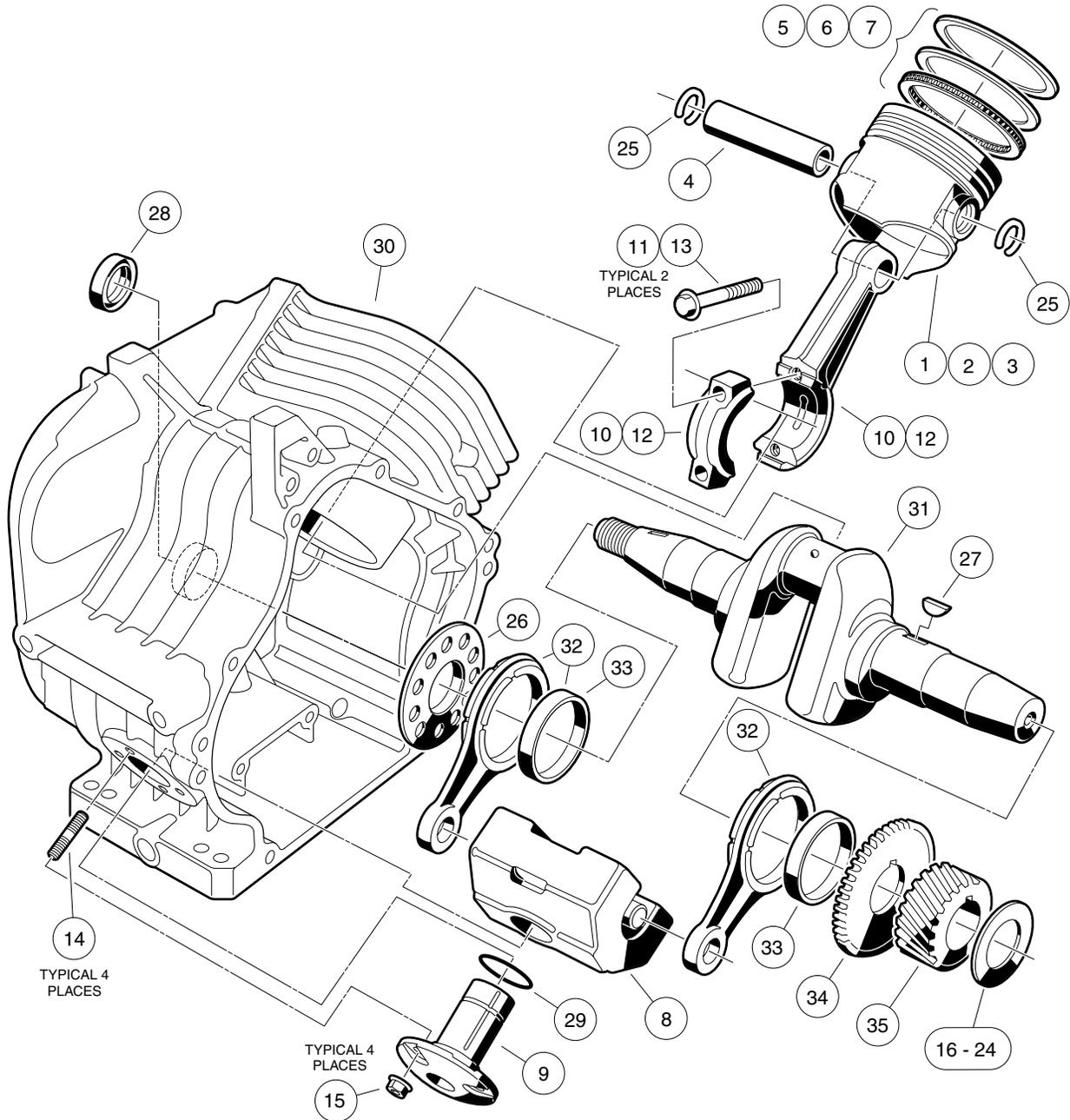
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# FE290 ENGINE – CRANKCASE, CAMSHAFT, AND OIL SENSOR

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

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**FE290 ENGINE**



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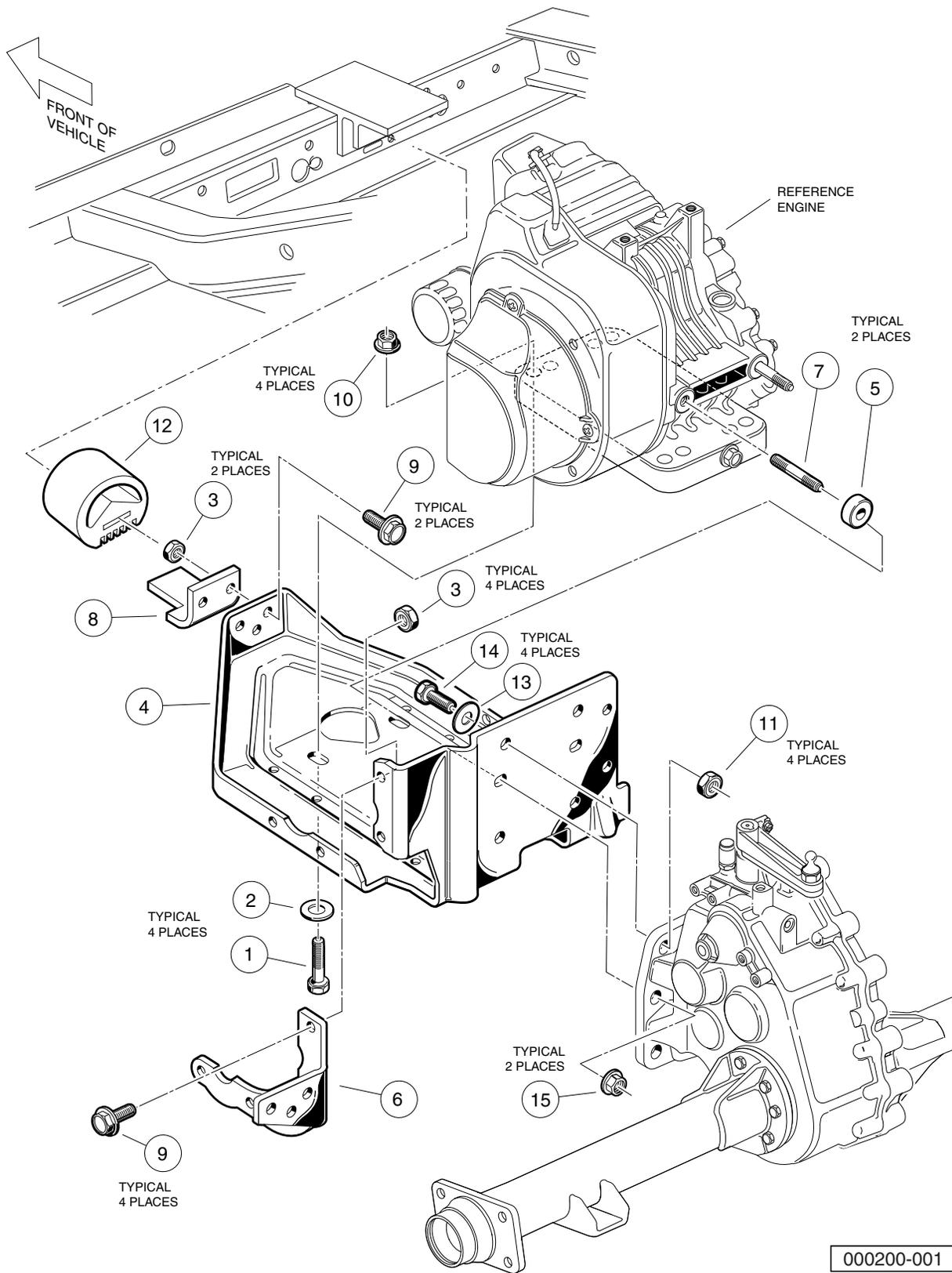
# FE290 ENGINE – CRANKCASE AND CRANKSHAFT

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

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# FE290 ENGINE MOUNTING

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

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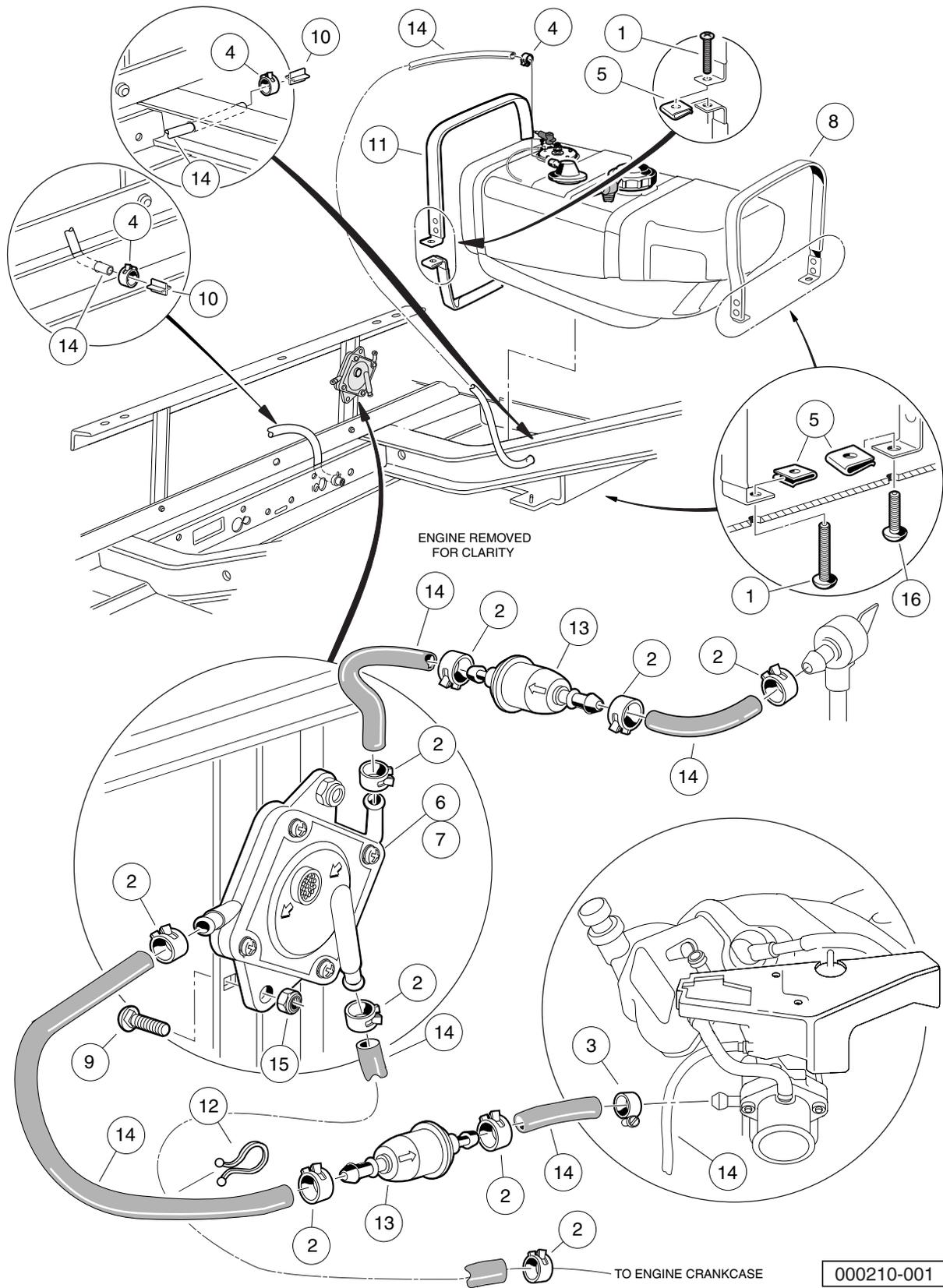
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# FUEL, INTAKE, AND GOVERNOR SYSTEMS

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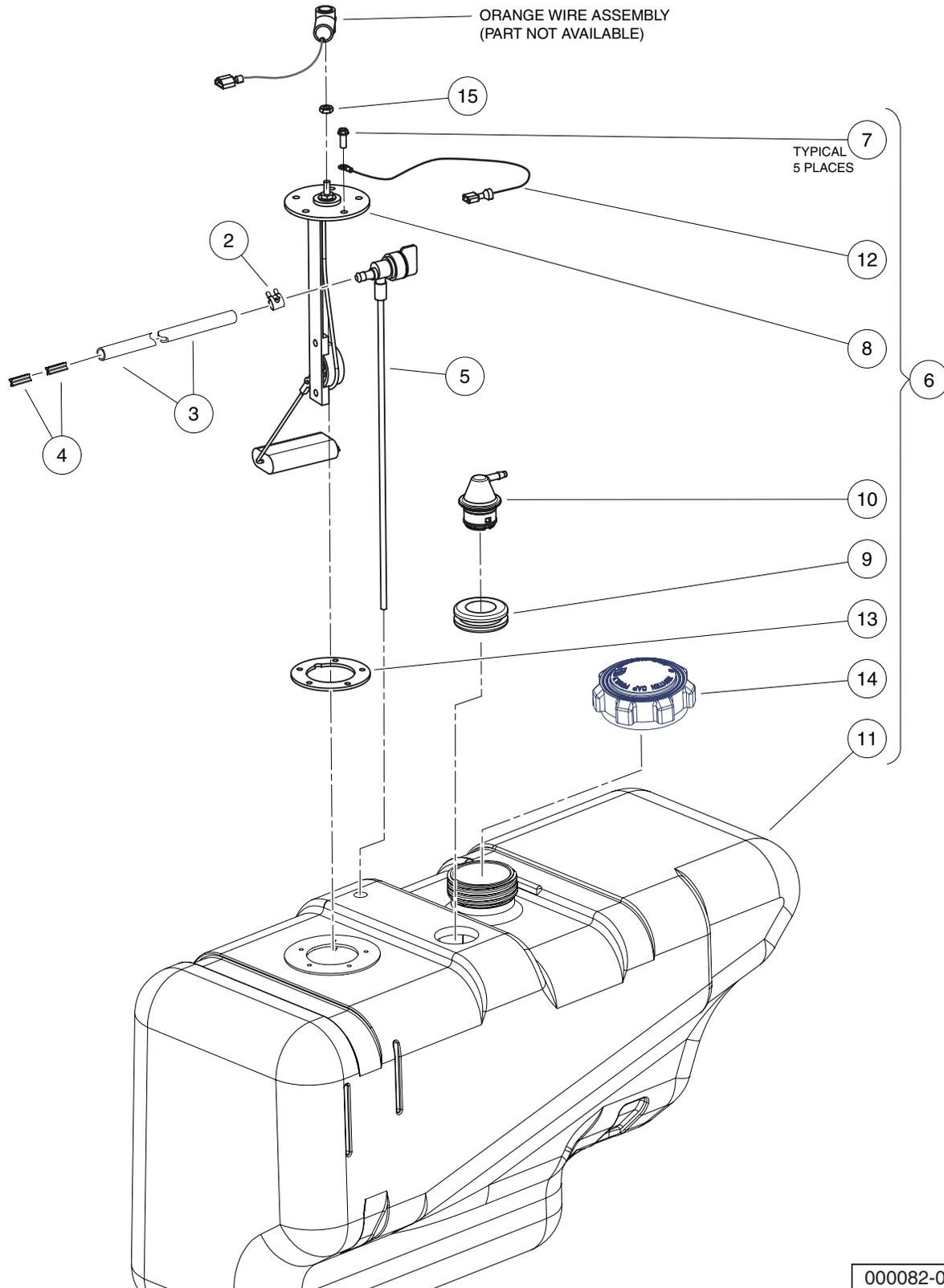


# FUEL SYSTEM

| ITEM | PART NO.  | DESCRIPTION                                    | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1011988   | Screw, 1/4-20 X 2.00 Phillips Truss-Head ..... | 2   |
| 2    | 1012649   | Clamp, 0.460 Red Hose .....                    | 9   |
| 3    | 1013687   | Clamp, 3/8" Hose (screw type) .....            | 1   |
| 4    | 1013746   | Clamp, 0.301 ID Hose .....                     | 3   |
| 5    | 1014116   | Nut, 1/4-20 Speed .....                        | 3   |
| 6    | 1014523   | Pump, Impulse Fuel .....                       | 1   |
| 7    | 1014524   | Kit, Impulse Pump Rebuild .....                | 1   |
| 8    | 1014928   | Fuel Strap Assembly Rear .....                 | 1   |
| 9    | 1017203   | Carriage Bolt .....                            | 2   |
| 10   | 101824401 | Vent Barb .....                                | 2   |
| 11   | 101955301 | Fuel Strap Assy, Front .....                   | 1   |
| 12   | 101987701 | Clamp, Plastic Tie .....                       | 1   |
| 13   | 102003201 | Filter, Fuel, 30 Micron .....                  | 2   |
| 14   | 102865101 | Fuel Line .....                                | A/R |
| 15   | 8233      | Locknut, 1/4-20 Nylon Insert .....             | 2   |
| 16   | 8248      | Screw, 1/4-20 X 0.75 Truss-Head Machine .....  | 1   |

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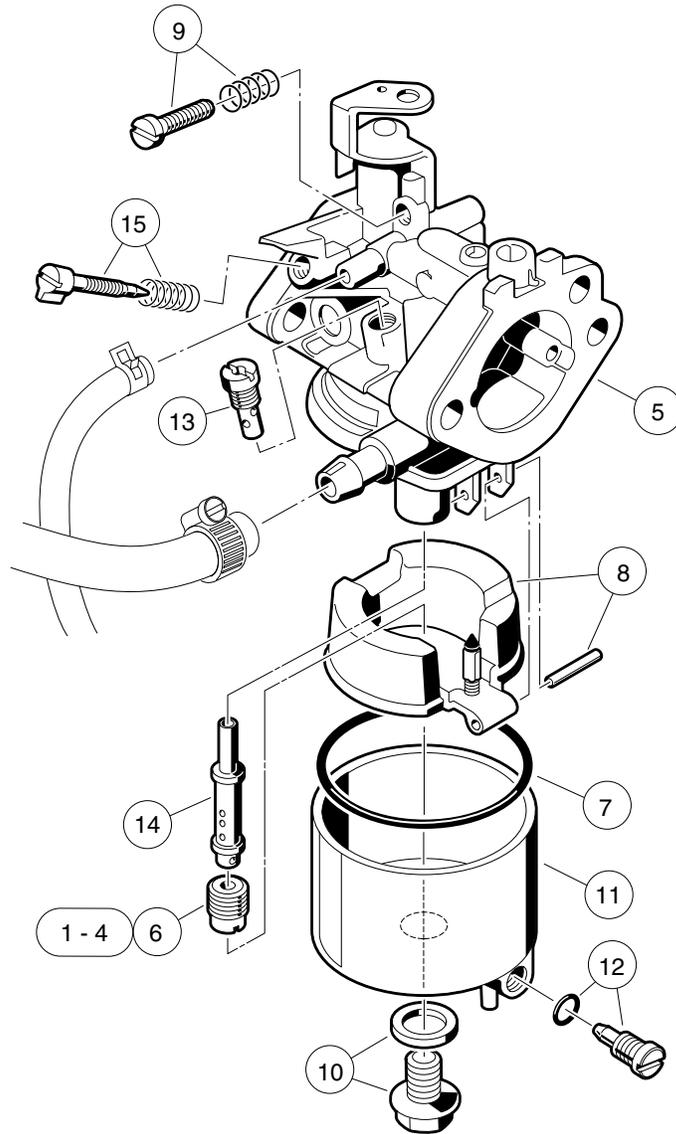


# FUEL TANK WITH FUEL LEVEL SENDING UNIT

| ITEM  | PART NO.  | DESCRIPTION   | QTY |
|---|-----------|---|-----|
|   |           | 1 2 3 4   |     |
| 1   | 1016004   | Tank Kit w/Sending Unit (includes items 2 through 6) .....      | 1   |
| 2   | 1013746   | Clamp, 0.301 ID Hose .....                                      | 2   |
| 3   | 101587703 | Hose, Fuel, Vent, 22" Long .....                                | 1   |
| 4   | 101824401 | Vent Barb .....   | 2   |
| 5   | 101896901 | Fuel Pickup w/Shut-Off Valve .....                              | 1   |
| 6   | N/A       | Fuel Tank with Sending Unit (includes items 7 through 14) ..... | 1   |
| 7   | 1013461   | Screw, #10-16 Hex-Head Hi-Lo .....                              | 5   |
| 8   | 1013462   | Sending Unit, Fuel Level * .....                                | 1   |
| 9   | 1015139   | Insulation Grommet .....  | 1   |
| 10  | 1015143   | Vent, Fuel Tank .....   | 1   |
| 11  | N/A       | Fuel Tank with Vent and Sending Unit Hole .....                 | 1   |
| 12  | N/A       | Wire Assembly #16 Black .....                                   | 1   |
| 13  | 102522001 | Gasket, Rubber .....  | 1   |
| 14  | 102751601 | Cap, Fuel Tank, Gasoline .....                                  | 1   |
| 15  | 8797      | Nut, #10-32 Brass Hex .....                                     | 1   |
| <p>* Note: Must replace fuel sending unit gasket when servicing this component.</p> |           |   |     |

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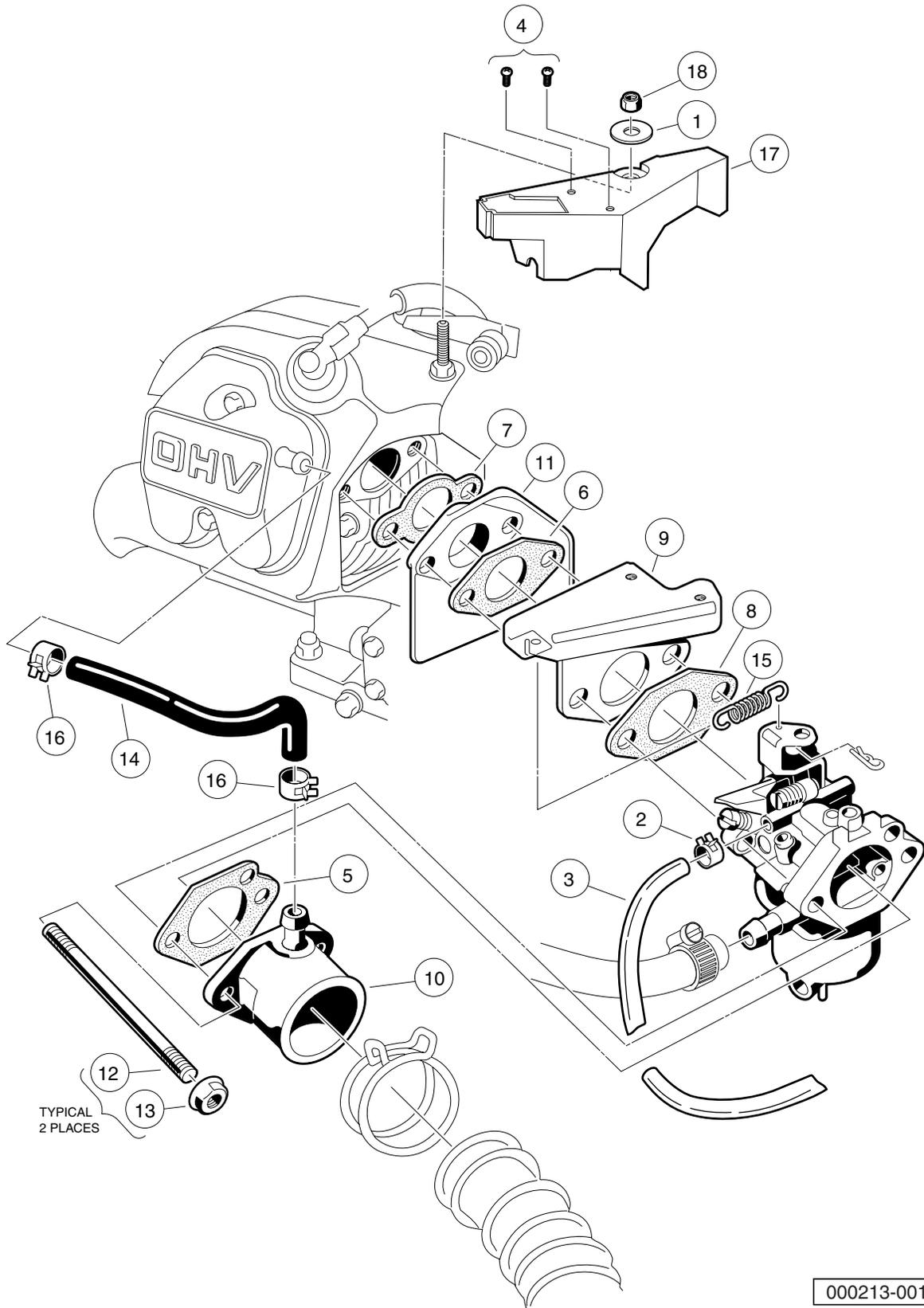
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# CARBURETOR ASSEMBLY – FE290

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

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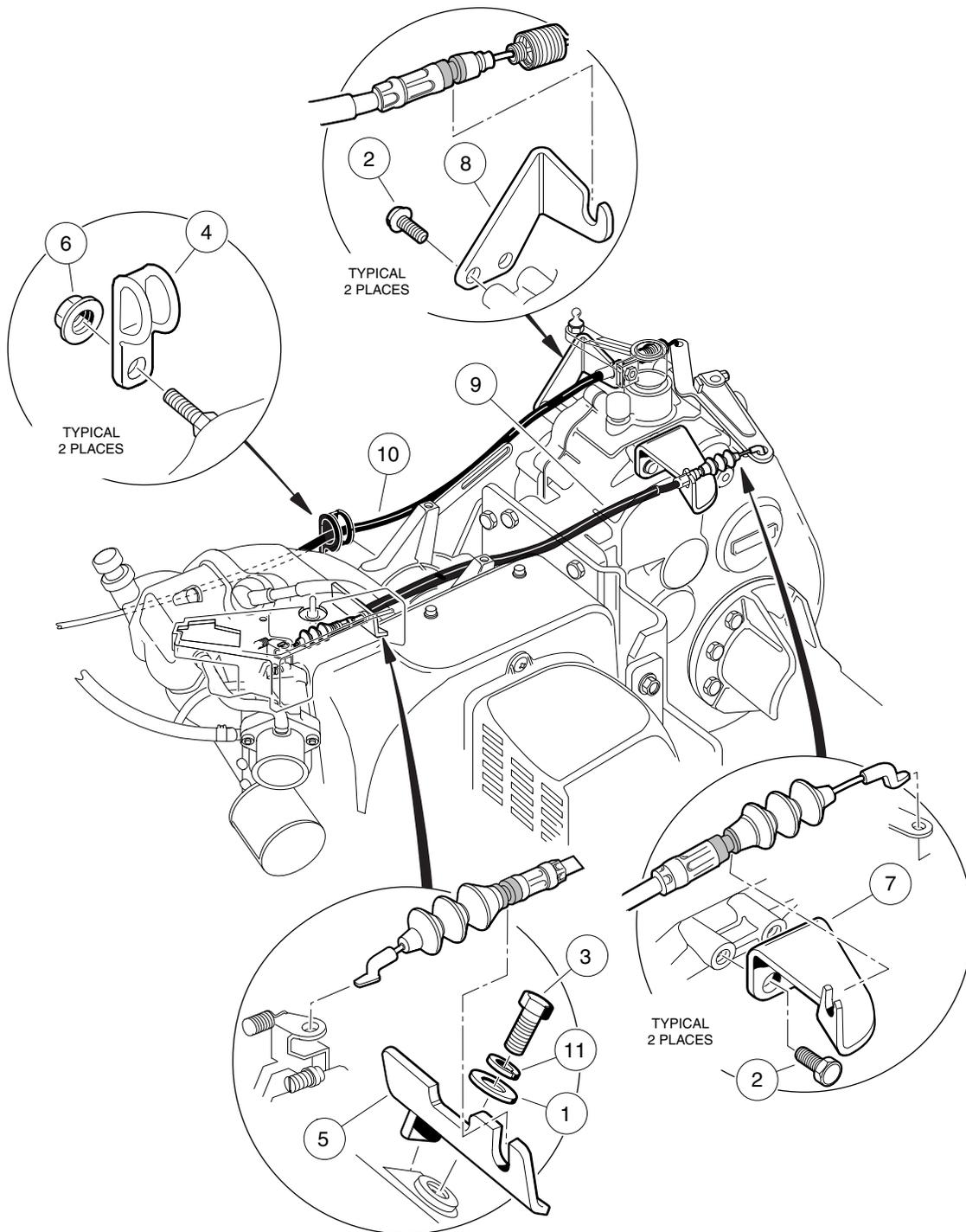


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# CARBURETOR INSTALLATION – FE290

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

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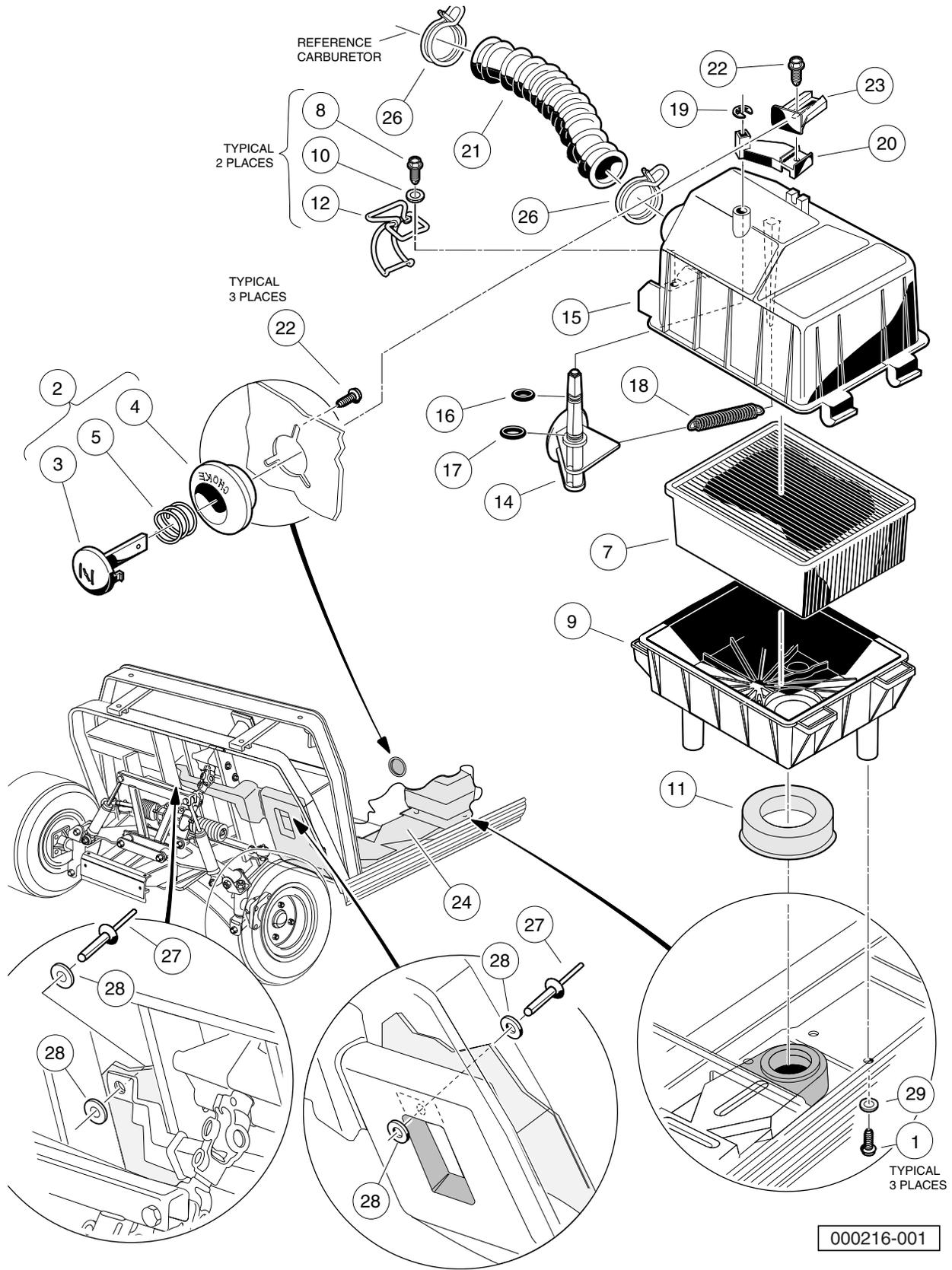
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# GOVERNOR AND ACCELERATOR CABLES

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

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# INTAKE DUCT, CHOKE, AND AIR BOX ASSEMBLY

| ITEM                              | PART NO.  | DESCRIPTION   | QTY |
|-----------------------------------|-----------|---|-----|
|                                   |           | 1 2 3 4   |     |
| 1                                 | 1015752   | Screw, #12-16 X 0.625 Hi-Lo .....                         | 3   |
| 2                                 | 101805701 | Button Assembly, Choke (includes items 3 through 5) ..... | 1   |
| 3                                 | 101811401 | Lever, Choke (Button) .....                               | 1   |
| 4                                 | 101811501 | Guide, Choke Lever .....                                  | 1   |
| 5                                 | 101856201 | Compression Spring .....                                  | 1   |
| 6                                 | 101821501 | Assembly, Air Box (includes items 7 through 13) .....     | 1   |
| 7                                 | 1015426   | Filter, Air .....   | 1   |
| 8                                 | 101804301 | Screw, #8 X 0.500, Hex-Head Hi-Lo .....                   | 2   |
| 9                                 | 101811901 | Bottom, Air Box .....                                     | 1   |
| 10                                | 101881701 | Washer, #8 Stainless-Steel Flat .....                     | 2   |
| 11                                | 101921501 | Seal, Intake .....  | 1   |
| 12                                | 101925701 | Latch, Wireform .....                                     | 2   |
| 13                                | 101972801 | Top Assy, Air Box (includes items 14 through 20) .....    | 1   |
| 14                                | N/A       | Valve, Choke .....  | 1   |
| 15                                | N/A       | Top, Air Box .....  | 1   |
| 16                                | N/A       | O-Ring, 5/16 .....  | 1   |
| 17                                | N/A       | O-Ring, 3/8 .....   | 1   |
| 18                                | 101812301 | Spring, Extension Return .....                            | 1   |
| 19                                | 101813001 | Retaining Ring 0.25, Shaft .....                          | 1   |
| 20                                | 101917601 | Lever, Choke .....  | 1   |
| 21                                | 101837101 | Hose, Air Intake .....                                    | 1   |
| 22                                | 101850301 | Screw, #12-16 X 0.50 Washer-Head Hi-Lo .....              | 4   |
| 23                                | 101917701 | Choke Positioner .....                                    | 1   |
| 24                                | 101958101 | Duct Assembly .....                                       | 1   |
| 25                                | 101971001 | Tape Kit, Air Duct Repair .....                           | A/R |
| 26                                | 101971301 | Clamp, 1.58" ID Hose .....                                | 2   |
| 27                                | 1606      | Rivet, 3/16 X .500 Alum Pop .....                         | 2   |
| 28                                | 183       | Washer, #10 Type A Flat .....                             | 4   |
| 29                                | 332       | Washer, 1/4 Type A Narrow Flat .....                      | 3   |
| Note: Item 25 is not illustrated. |           |   |     |

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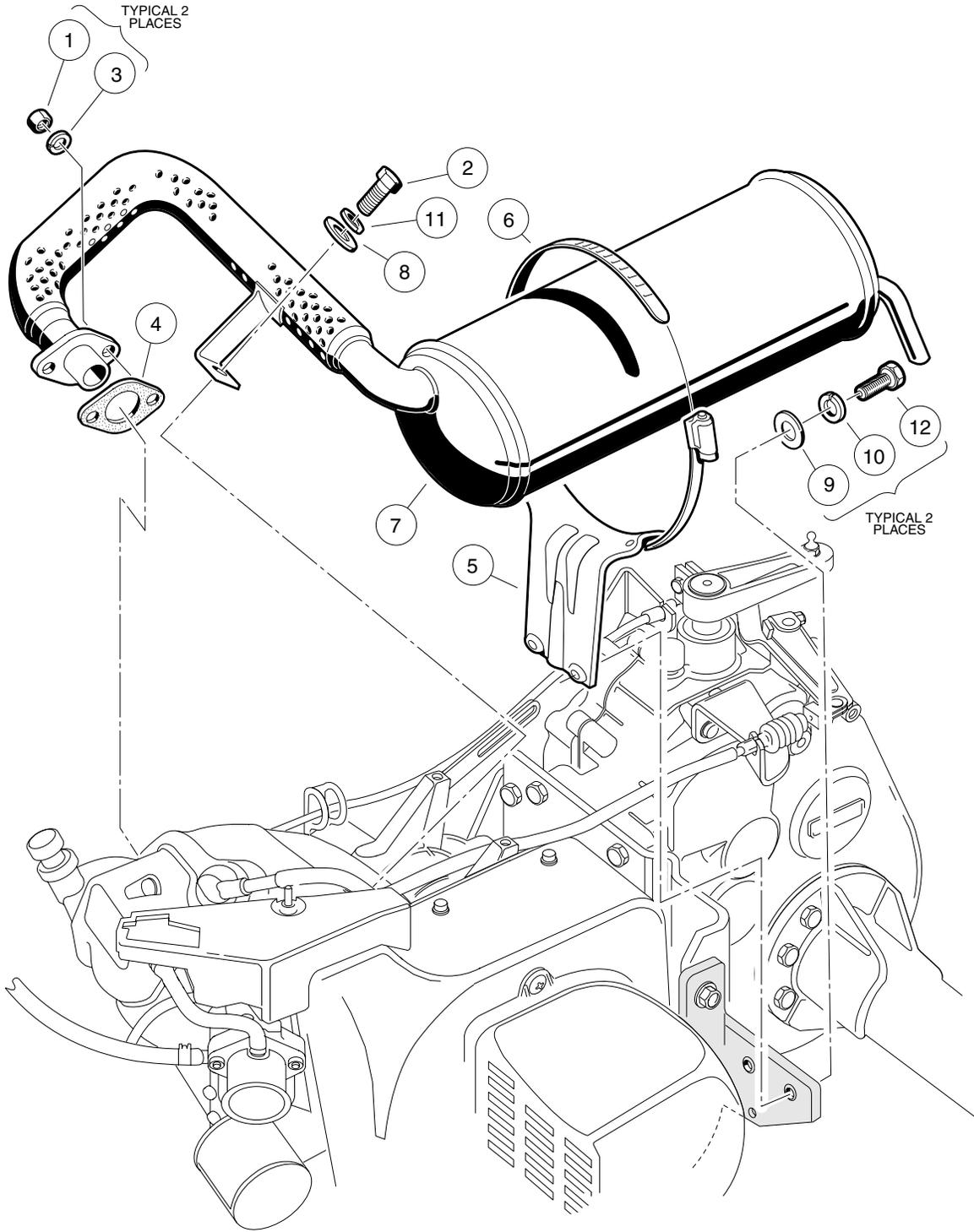
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# EXHAUST SYSTEM

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# EXHAUST SYSTEM – FE290 ENGINE

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

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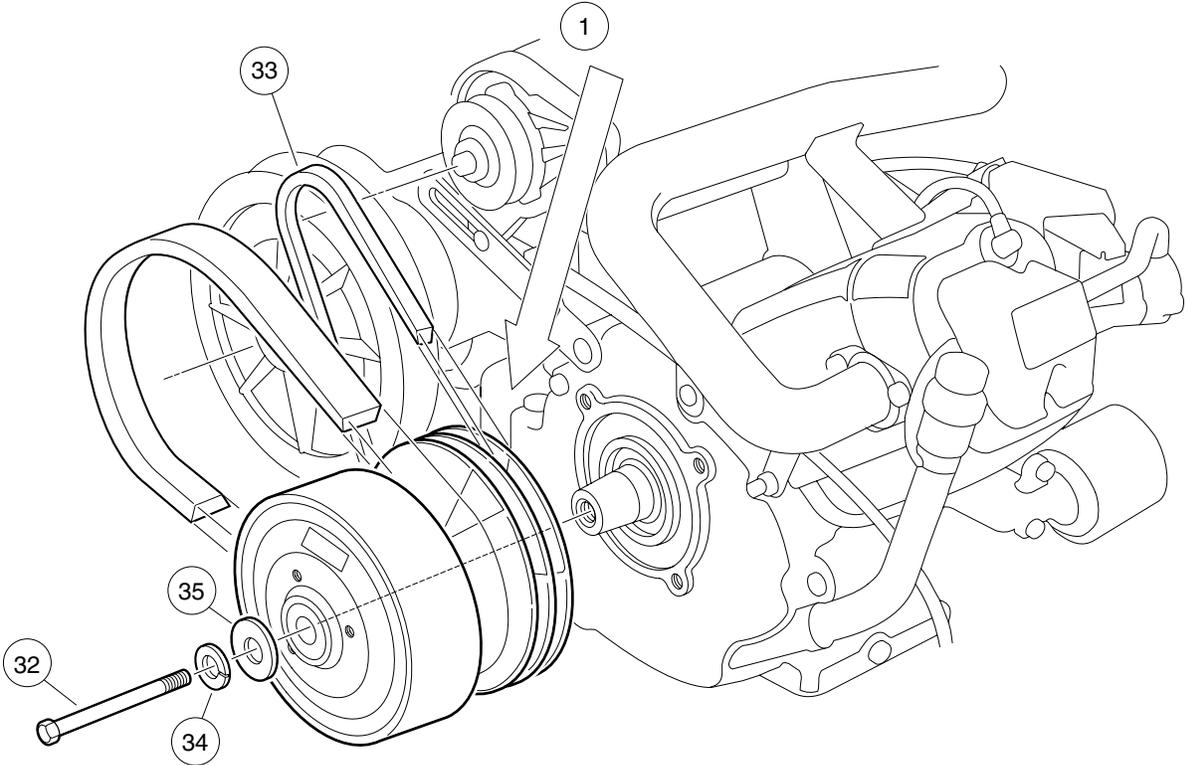
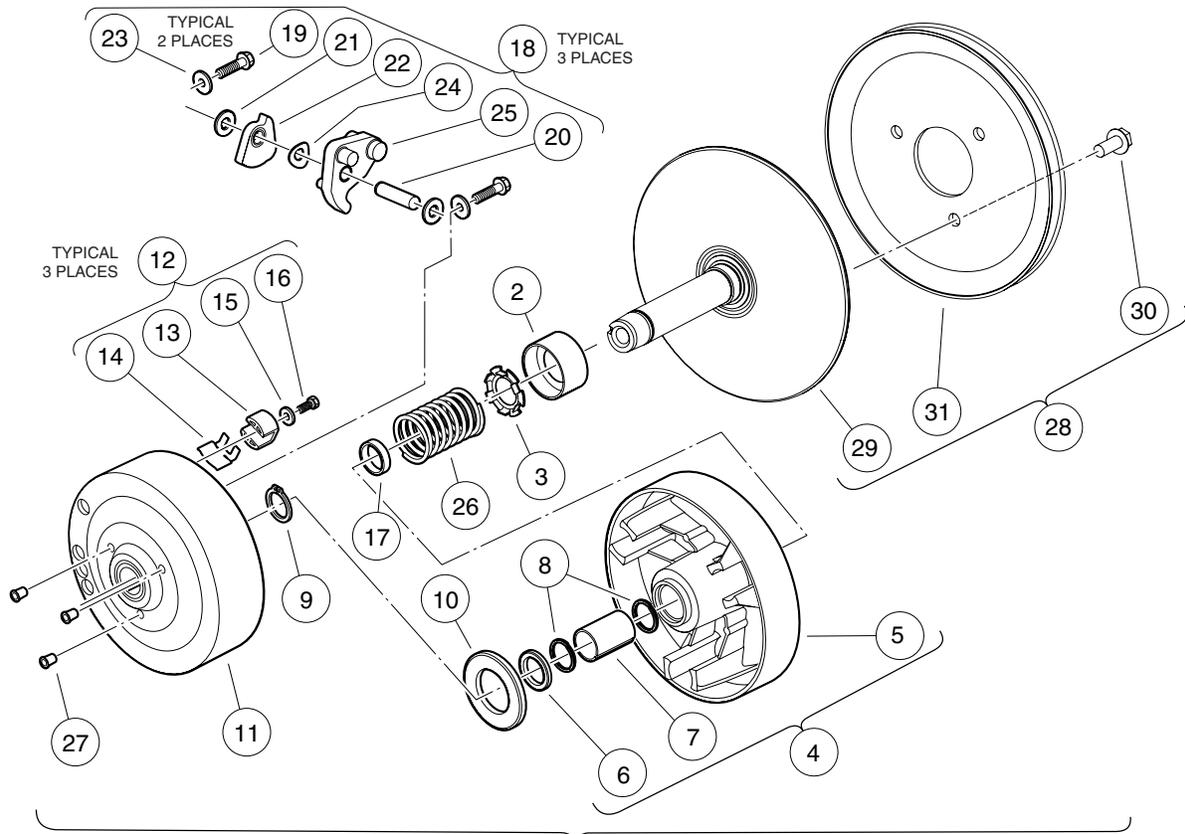
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# TORQUE CONVERTER

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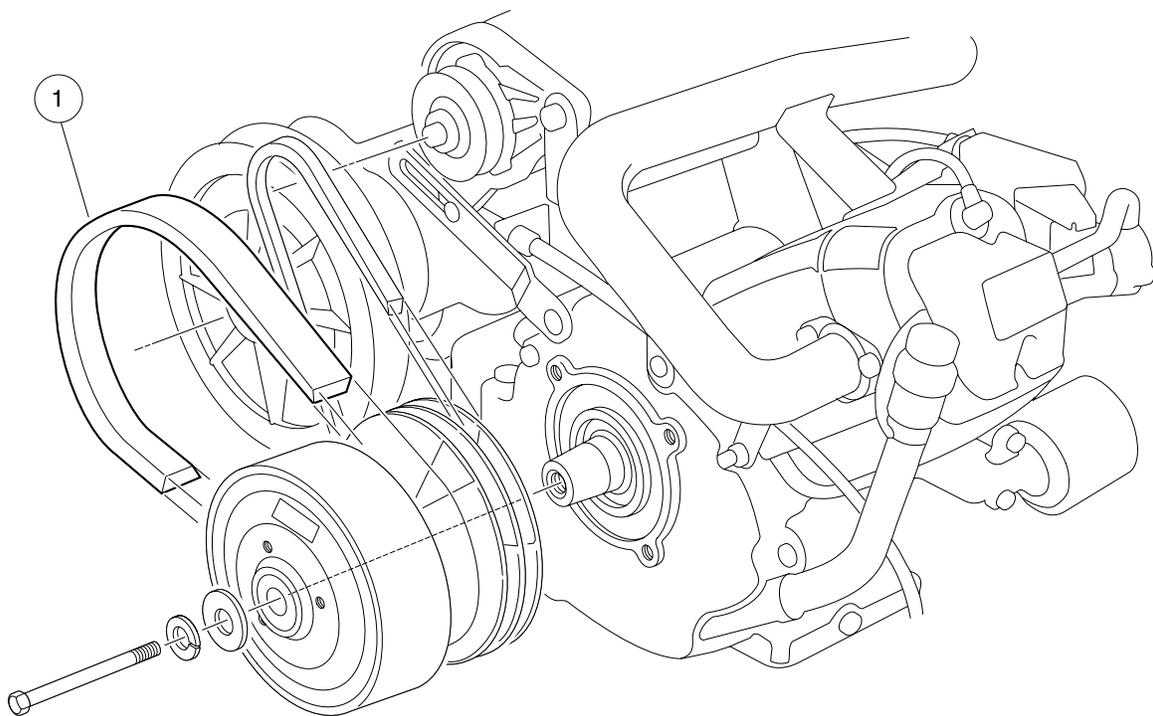
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# DRIVE CLUTCH

| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 101833906 | Drive Clutch Assy. Fe 350/272 (includes items 2 through 28) ..... | 1   |
| 2    | 1014049   | Bearing, Idler .....  | 1   |
| 3    | 1014050   | Retainer, Spring .....  | 1   |
| 4    | 1014052   | Movable-Face Assembly (includes items 5 through 7) .....          | 1   |
| 5    | N/A       | Drive Clutch Movable Face .....                                   | 1   |
| 6    | 1014055   | Retainer .....  | 1   |
| 7    | N/A       | Bushing, Split, Drive Clutch .....                                | 1   |
| 8    | 1014056   | Ring, Spiral Backup .....   | 2   |
| 9    | 1014057   | Ring, 0.810" Internal Retaining .....                             | 1   |
| 10   | 1014058   | Washer, Thrust .....  | 1   |
| 11   | 1014059   | Drive Hub Assy, Drive Clutch .....                                | 1   |
| 12   | 1014453   | Kit, Drive Clutch Button (includes items 13 through 16) .....     | 1   |
| 13   | 1014062   | Driver, Drive Clutch .....  | 3   |
| 14   | 1014287   | Spring, Drive Button .....  | 3   |
| 15   | 183       | Washer, #10 Type A Flat .....                                     | 3   |
| 16   | 8450      | Screw, #10-24 X 0.50 Hex-Head .....                               | 3   |
| 17   | 1016289   | Spacer, Fixed Face Shaft .....                                    | 1   |
| 18   | 1016801   | Kit, Drive Clutch Weight (includes items 19 through 25) .....     | 1   |
| 19   | 1014063   | Screw, 1/4-20 X 1.00 Hex Head .....                               | 6   |
| 20   | N/A       | Pin, 0.3752 X 1.50 Dowel .....                                    | 3   |
| 21   | 1014065   | Washer, 0.38" ID Delrin Flat .....                                | 6   |
| 22   | N/A       | Clutch Weight, Secondary .....                                    | 3   |
| 23   | N/A       | Washer .....  | 6   |
| 24   | 1016201   | Washer, Wave .....  | 3   |
| 25   | N/A       | Weight, Primary .....   | 3   |
| 26   | 1016901   | Spring, Drive Clutch .....  | 1   |
| 27   | N/A       | Cap Plug .....  | 3   |
| 28   | 101929801 | Assembly, Fixed-Face Drive (includes items 29 through 31) .....   | 1   |
| 29   | N/A       | Fixed Face Assembly, Drive Clutch .....                           | 1   |
| 30   | 1014288   | Screw, 5/16-18 X 0.75 Thread-Forming .....                        | 3   |
| 31   | N/A       | Pulley, Clutch .....  | 1   |
| 32   | 101916501 | Screw, 3/8-24 X 5.50 Hex-Head .....                               | 1   |
| 33   | 101916701 | V-Belt .....  | 1   |
| 34   | 357       | Washer, 3/8 Split Lock .....                                      | 1   |
| 35   | 808       | Washer, 3/8 Type B Flat .....                                     | 1   |

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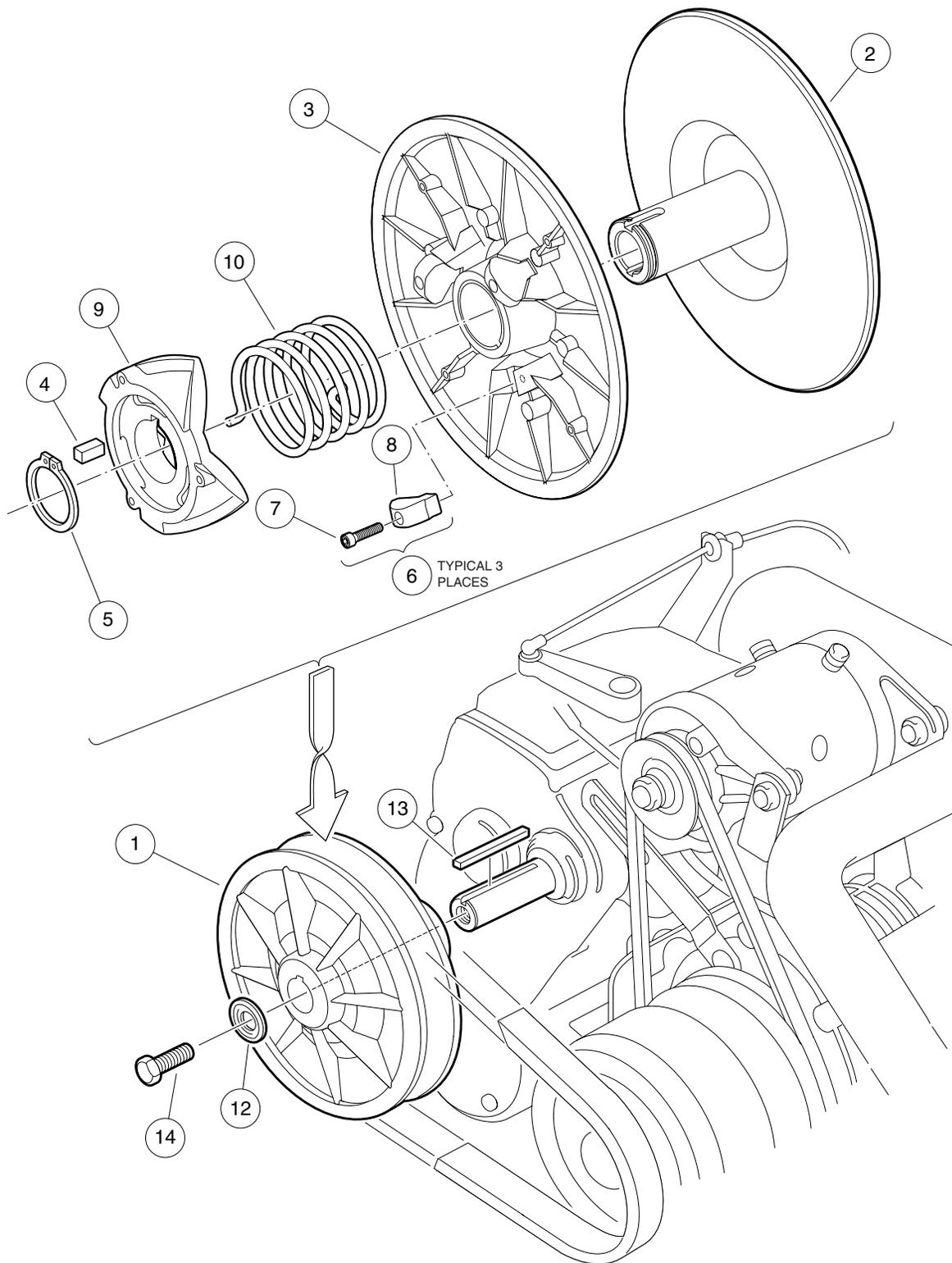


000218-001

# DRIVE BELT – FE290

| ITEM | PART NO. | DESCRIPTION                  | QTY |
|------|----------|------------------------------|-----|
| 1    | 1016203  | 1 2 3 4<br>Belt, Drive ..... | 1   |

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000219-001

# DRIVEN CLUTCH

| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 101834001 | Assembly, Driven Clutch (includes items 2 through 10) ..... | 1   |
| 2    | 1014070   | Fixed Face Assy, Driven Clutch .....                        | 1   |
| 3    | 1014072   | Movable-Face Assembly with Bushing .....                    | 1   |
| 4    | 1014078   | Key, Driven Clutch .....                                    | 1   |
| 5    | 1014080   | Ring, Retaining .....                                       | 1   |
| 6    | 1014454   | Kit, Driven Clutch Button (includes items 7 and 8) .....    | 1   |
| 7    | 1012836   | Screw, #8-32 X 3/4 Socket-Head Cap .....                    | 3   |
| 8    | N/A       | Button, Drive .....   | 3   |
| 9    | 1017686   | Cam, Driven Clutch .....                                    | 1   |
| 10   | 101836201 | Spring, Driven Clutch, Reversed .....                       | 1   |
| 11   | AM10419   | Kit, Clutch Repair (includes items 12 through 14) .....     | 1   |
| 12   | 1017327   | Washer, Driven Clutch, Belleville .....                     | 1   |
| 13   | 101833401 | Key, 3/16 Sq X 1.50" .....                                  | 1   |
| 14   | 102242101 | Screw, 5/16-18 X 3/4 Hex-Head with Patch .....              | 1   |

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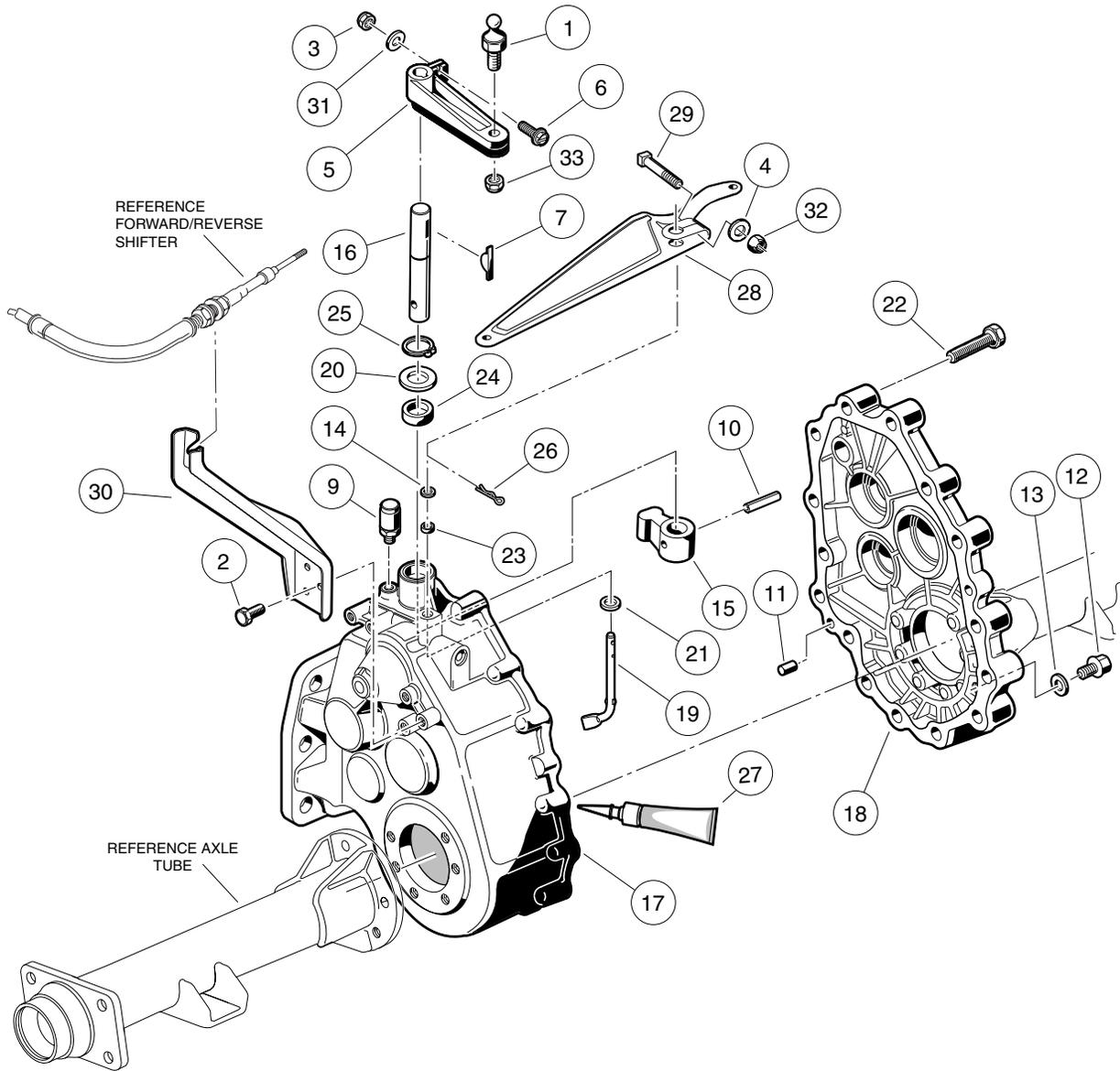
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# TRANSAXLE – GASOLINE VEHICLE

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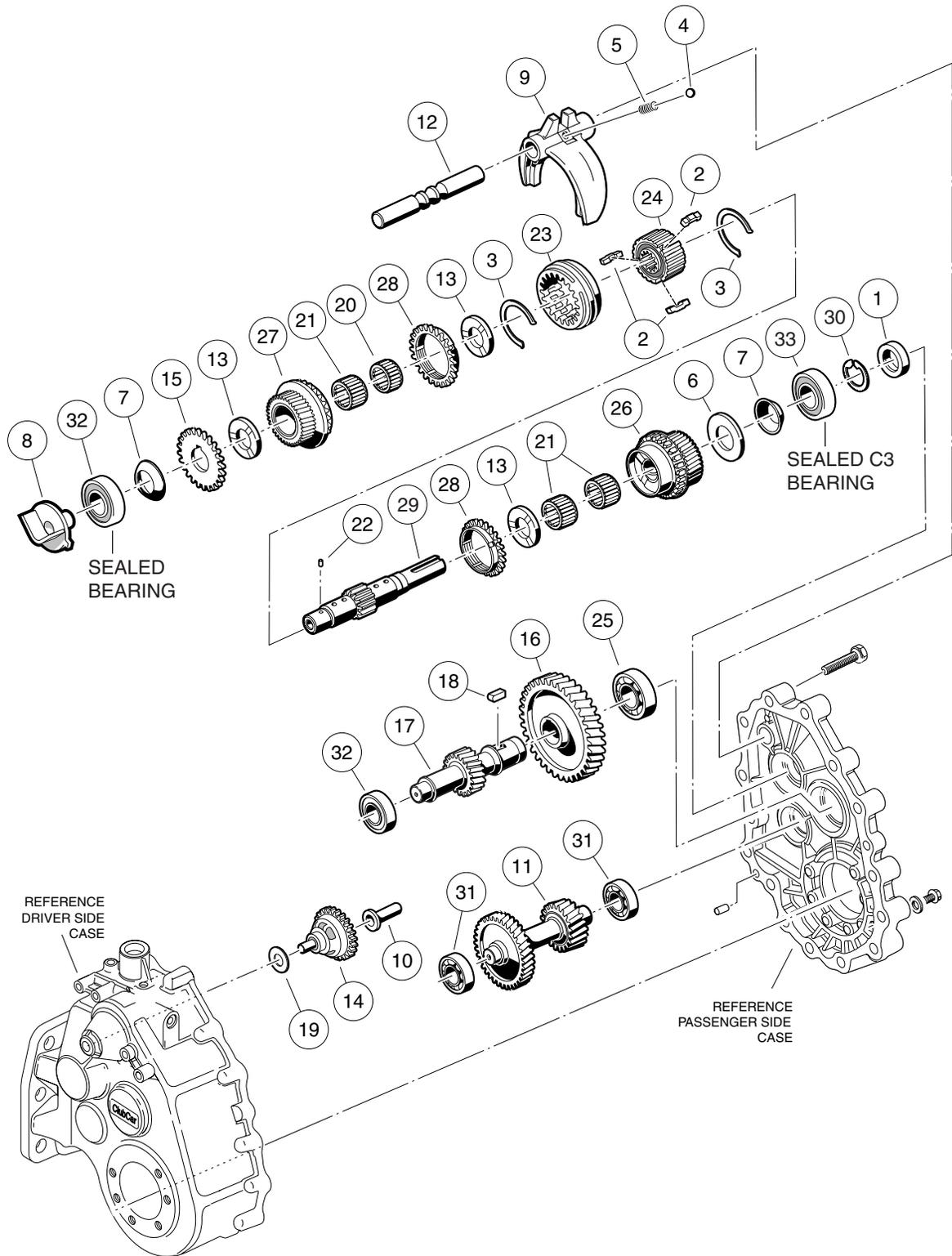
000220-001

# TRANSAXLE – GASOLINE VEHICLES, GEAR CASES AND BRACKETS

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1010954   | Stud, 1/4-28 X 0.560 Ball .....                            | 1   |
| 2    | 1012285   | Screw, 1/4 X 0.625 Hex-Head .....                          | 3   |
| 3    | 1013061   | Locknut, #10-32 Nylon Insert .....                         | 1   |
| 4    | 1014007   | Washer, 1/4 Flat .....                                     | 1   |
| 5    | 1016341   | Lever, Transmission Shift .....                            | 1   |
| 6    | 1017082   | Screw, #10-32 X 0.75, Hex-Head Machine .....               | 1   |
| 7    | 1017231   | Key, Woodruff .....  | 1   |
| 8    | 101833601 | Transaxle, 11.77 Ratio (includes items 9 through 27) ..... | 1   |
| 9    | 1012711   | Breather .....   | 1   |
| 10   | 1012752   | Roll Pin .....   | 1   |
| 11   | 1012896   | Pin, Dowel .....   | 2   |
| 12   | 1013759   | Fill Plug with Gasket (includes item 13) .....             | 2   |
| 13   | 1016432   | Gasket, Drain Plug .....                                   | 1   |
| 14   | 1016513   | Washer, M6 Flat .....                                      | 1   |
| 15   | 101890101 | Lever, Change .....  | 1   |
| 16   | 101890201 | Shaft - Change .....                                       | 1   |
| 17   | 101890501 | Gear Case (driver side) .....                              | 1   |
| 18   | 101890601 | Gear Case (passenger side) .....                           | 1   |
| 19   | 101891301 | Arm Pivot .....  | 1   |
| 20   | 101892901 | Washer .....   | 1   |
| 21   | 101893801 | Washer .....   | 1   |
| 22   | 101926901 | Screw, M8-1.25 X 40mm Hex-Head .....                       | 15  |
| 23   | 101927101 | Seal, Oil .....  | 1   |
| 24   | 101927201 | Seal, Oil .....  | 1   |
| 25   | 101927301 | Ring, Internal Retaining .....                             | 1   |
| 26   | 101928601 | Pin, Cotter .....  | 1   |
| 27   | 101928701 | Sealant .....  | A/R |
| 28   | 101834801 | Arm, Governor .....  | 1   |
| 29   | 101886101 | Screw, 1/4-20 X 1.00 Square-Head .....                     | 1   |
| 30   | 102045901 | Bracket, Shifter .....                                     | 1   |
| 31   | 183       | Washer, #10 Type A Flat .....                              | 1   |
| 32   | 8233      | Locknut, 1/4-20 Nylon Insert .....                         | 1   |
| 33   | 8717      | Locknut, 1/4-28 Nylon Insert .....                         | 1   |

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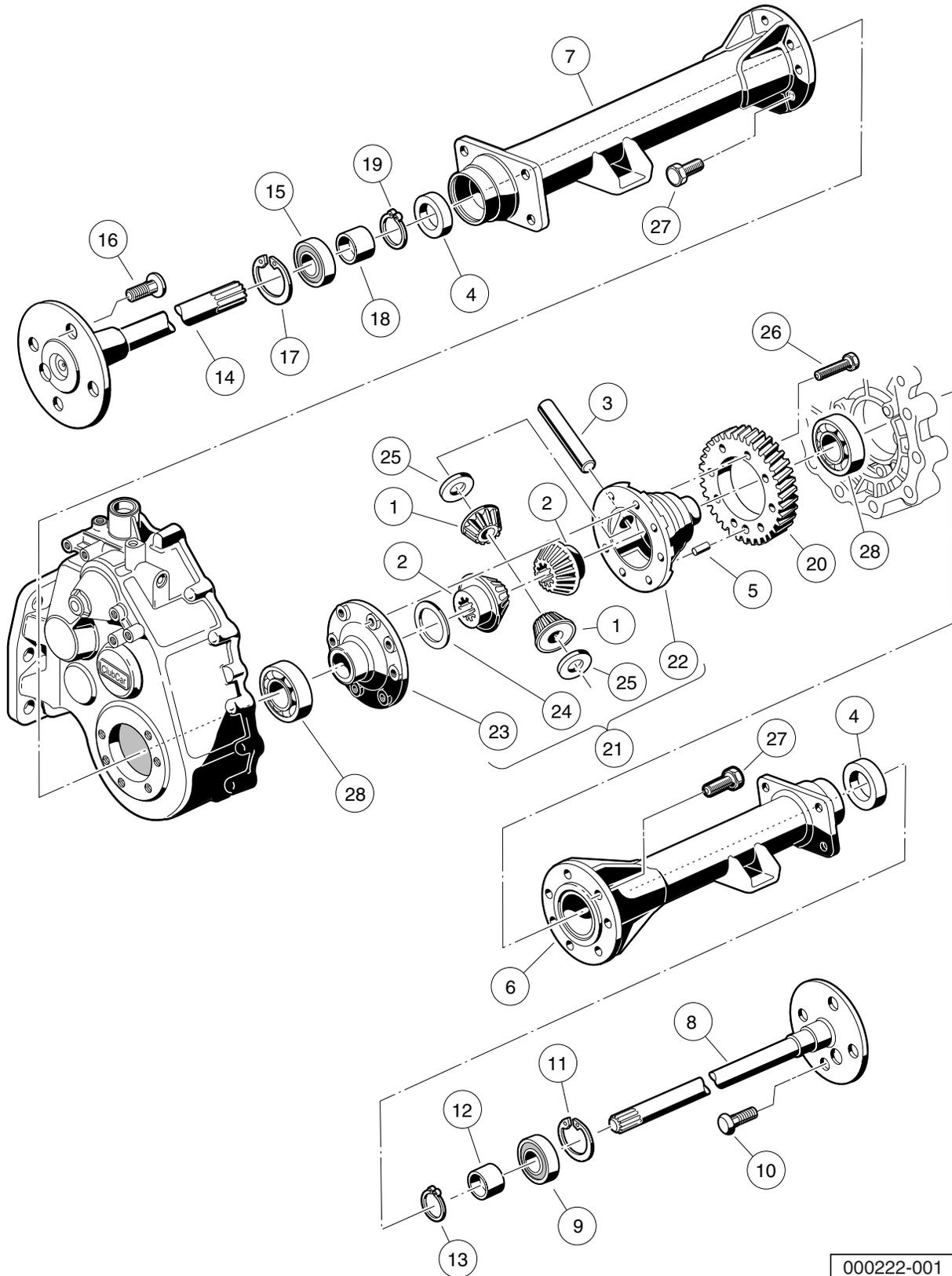


000221-001

# TRANSAXLE – GASOLINE VEHICLES, TRANSMISSION AND GEAR REDUCTION

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

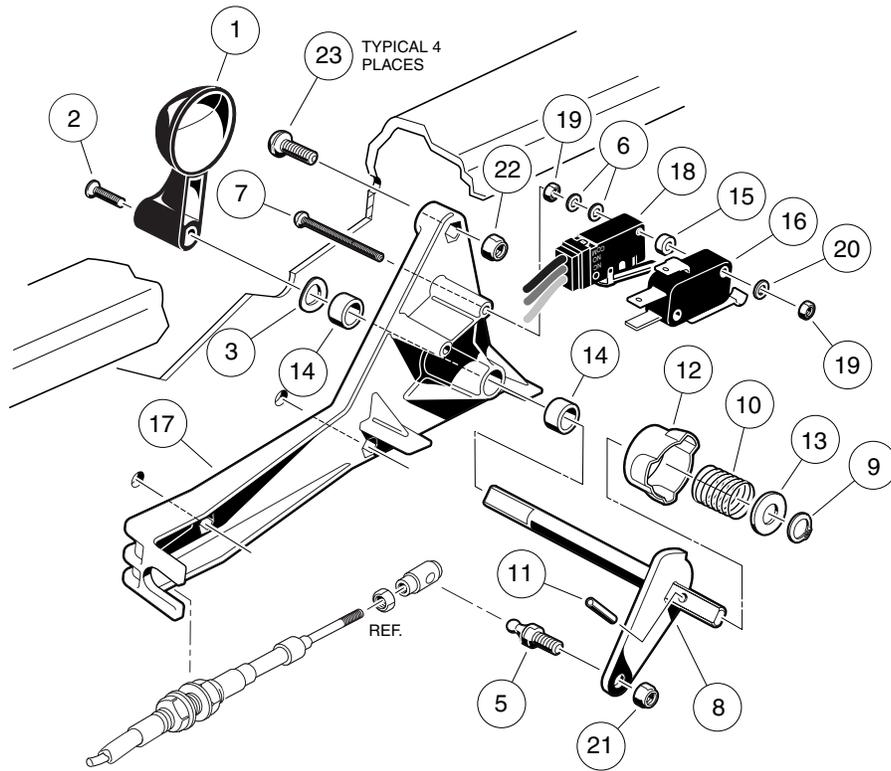


000222-001

# TRANSAXLE – GASOLINE VEHICLES, DIFFERENTIAL AND AXLES

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

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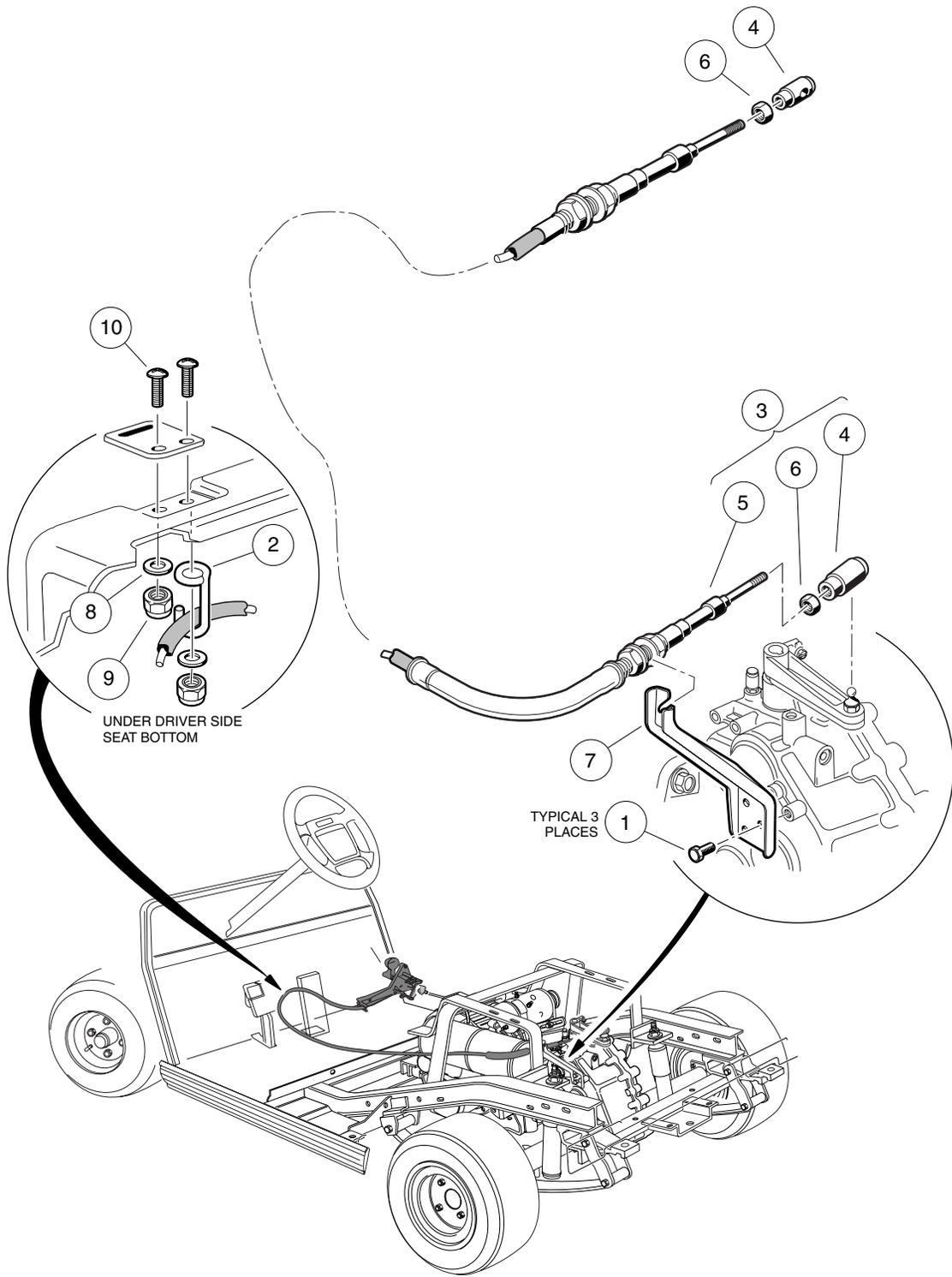


000236-001

# FORWARD/REVERSE SHIFTER ASSEMBLY – GASOLINE VEHICLES

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

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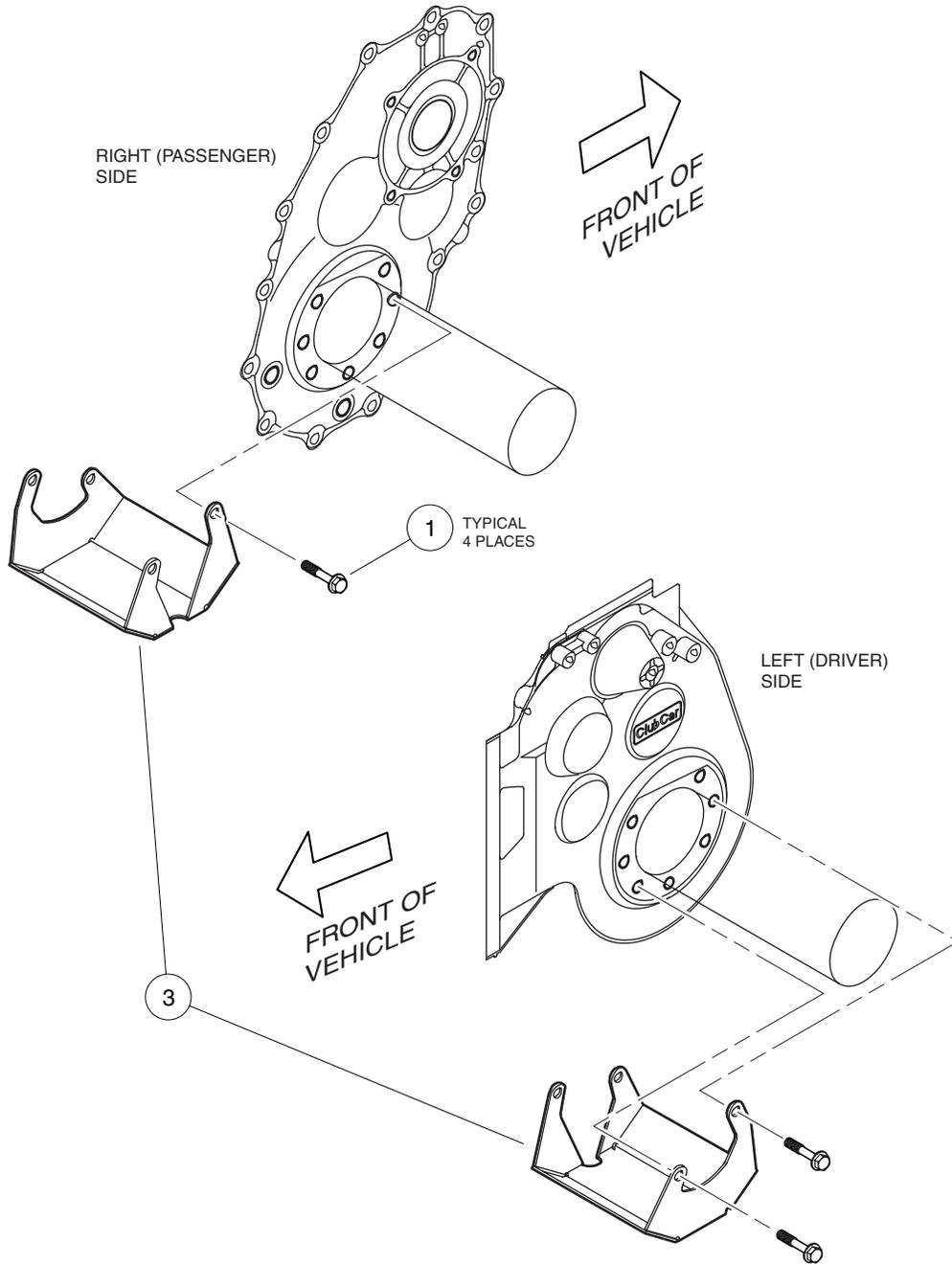
000248-001

# FORWARD/REVERSE SHIFTER CABLE – GASOLINE VEHICLES

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1012285   | Screw, 1/4 X 0.625 Hex-Head .....                    | 3   |
| 2    | 101855801 | Cable Retainer .....                                 | 1   |
| 3    | 101951501 | FNR Shifter Cable (includes items 4 through 6) ..... | 1   |
| 4    | 1012333   | Joint, #10-32 Ball .....                             | 2   |
| 5    | N/A       | Cable, Forward/Reverse Shifter .....                 | 1   |
| 6    | 7893      | Nut, #10-32 Hex .....                                | 2   |
| 7    | 102045901 | Bracket, Shifter .....                               | 1   |
| 8    | 332       | Washer, 1/4 Type A Narrow Flat .....                 | 4   |
| 9    | 8233      | Locknut, 1/4-20 Nylon Insert .....                   | 4   |
| 10   | 8251      | Screw, 1/4-20 X 1.0 Truss-Head Machine .....         | 4   |

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000366-001

# DIFFERENTIAL GUARD

| ITEM | PART NO.  | DESCRIPTION                                     | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 101926901 | Screw, M8-1.25 X 40mm Hex-Head .....            | 4   |
| 2    | 101932902 | Diff Guard Unitized Kit (includes item 3) ..... | 1   |
| 3    | N/A       | Guard, Unitized Differential .....              | 1   |

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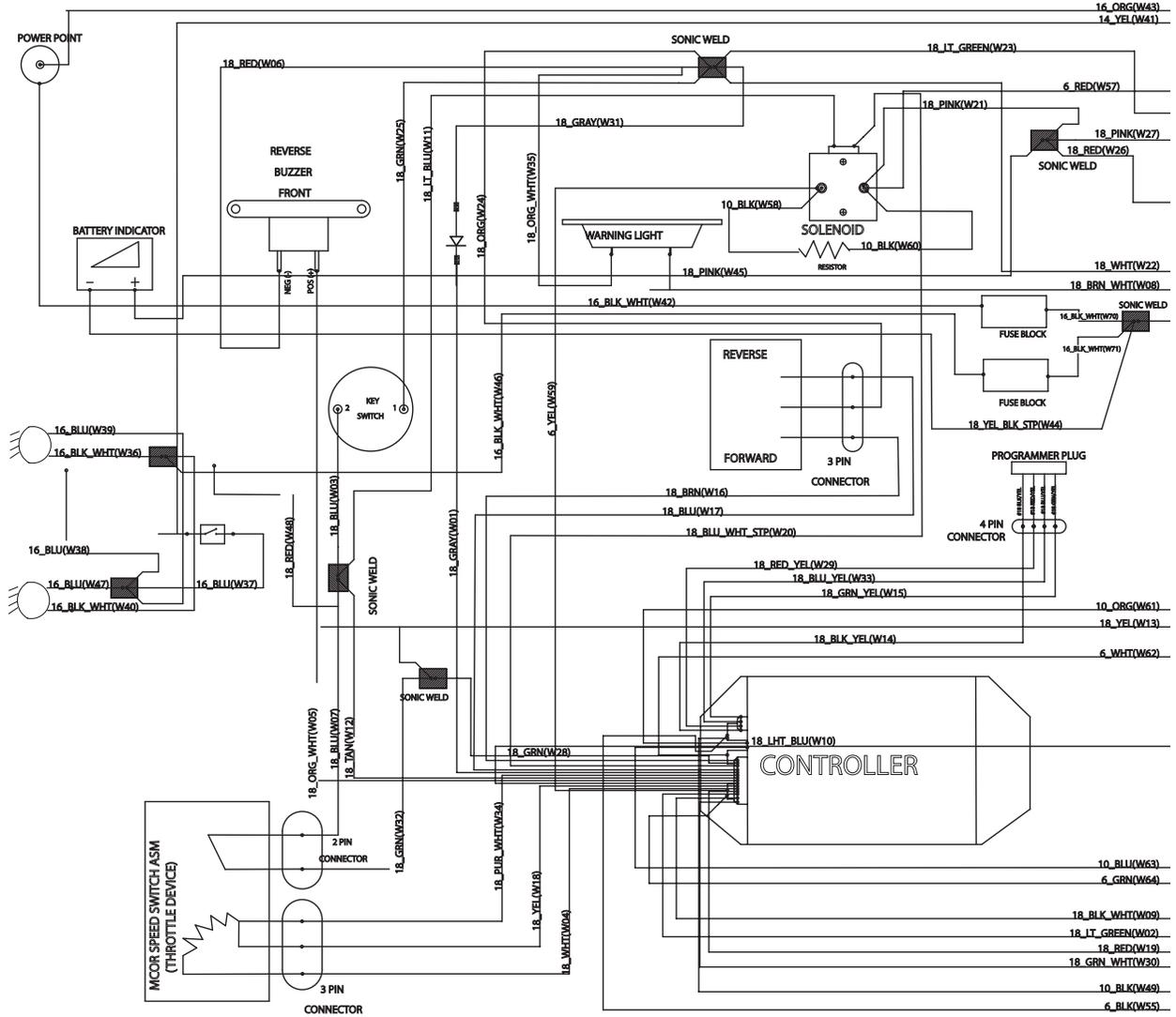
# ELECTRICAL SYSTEM – ELECTRIC VEHICLES

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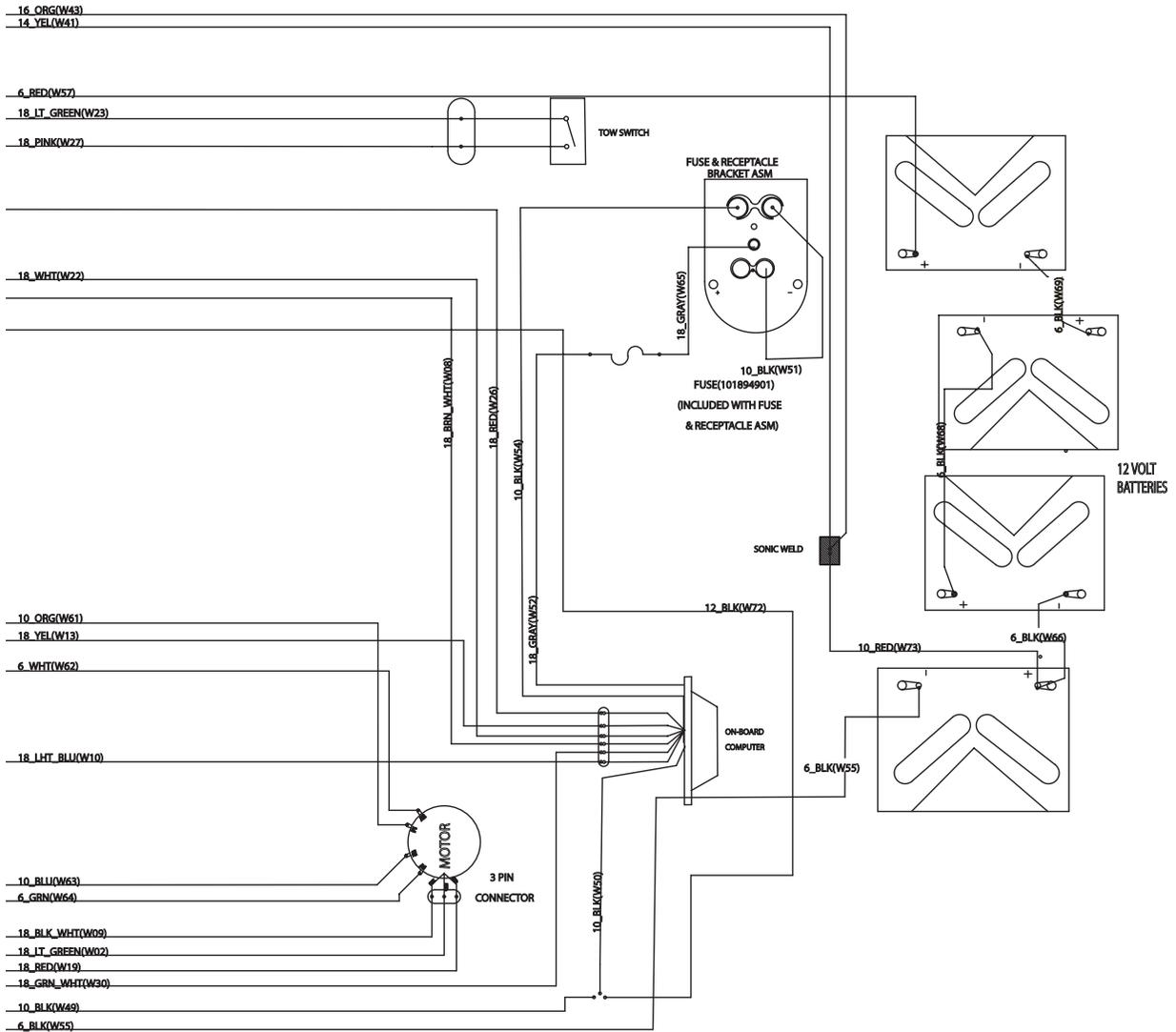
*E*

# ELECTRIC VEHICLE



- (PIN 14) LT GREEN : TO MOTOR SPEED SENSOR OUTPUT
- (PIN 15) RED : TO HIGH SPEED OF MOTOR SPEED SENSOR
- (PIN 16) BLUE : TO FNR SWITCH "REV"
- (PIN 13) BLK/WHT : TO LOW SIDE OF MOTER SPEED SENSOR
- (PIN 12) BLU/WHT : TO LOW SIDE OF SOLENOID COIL
- (PIN 11) : OPEN
- (PIN 10) TAN : TO KEY SWITCH SONIC WELD
- (PIN 9) GRAY : AUX
- (PIN 8) BROWN : TO FNR SWITCH "FOR"
- (PIN 7) ORG/WHT : TO LOW SIDE OF REVERSE BUZZER
- (PIN 6) GREEN : TO ACCELERATOR LIMIT SWITCH
- (PIN 5) LT BLUE : TO OBC "CONTROLLER LOCKOUT"
- (PIN 4) GRN/WHT : TO S.O.C
- (PIN 3) PUR/WHT : TO LOW SIDE OF POTENTIOMETER
- (PIN 2) YELLOW : TO SLIDER OF POTENTIOMETER
- (PIN 1) WHITE : TO HIGH SIDE OF POTENTIOMETER

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**12**

***E***

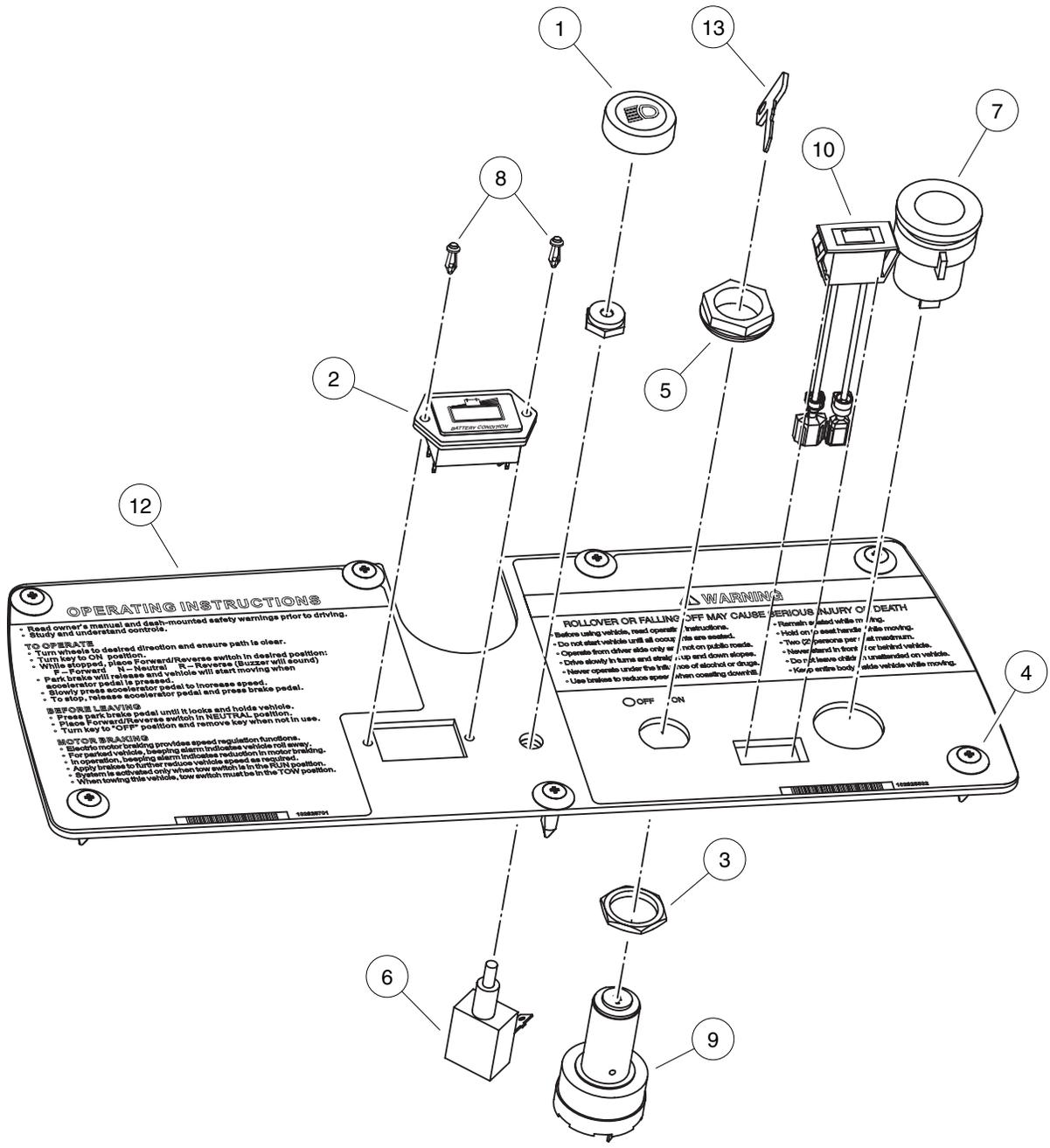
See previous two pages for diagram.

# WIRING – ELECTRIC VEHICLE

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
| 1    | 102810501 | <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <span>1</span> <span>2</span> <span>3</span> <span>4</span> </div> Wire Harness, Electric Vehicle ..... | 1   |

12

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**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 to OFF position and remove key when not in use.

**SECURE BRAKING**

- Electro motor braking provides speed regulation functions.
- For parked vehicle, beep/stop alarm indicates vehicle roll away.
- In operation, beep/stop alarm indicates reduction in motor braking.
- Apply brakes to further reduce vehicle speed as required.
- System is activated only when low switch is in the RLY position.
- When towing the vehicle, low switch must be in the TOW position.

**ROLLOVER OR FALLING OFF MAY CAUSE SERIOUS INJURY OR DEATH**

- Before using vehicle, read operator instructions.
- Do not start vehicle until all occupants are seated.
- Operate from driver side only as indicated on public roads.
- Drive slowly in turns and steep up and down slopes.
- Never operate under the influence of alcohol or drugs, when operating downhill.
- Use brakes to reduce speed.

**WARNING**

- Fasten or adjust vehicle seat belts.
- Hold on to seat handles while moving.
- Two (2) persons per vehicle.
- Never stand in front or behind vehicle.
- Do not lean or sit on seat or undercarriage of vehicle.
- Use proper body position while moving.

000231-001

# ELECTRICAL COMPONENTS, FRONT BODY – ELECTRIC VEHICLE

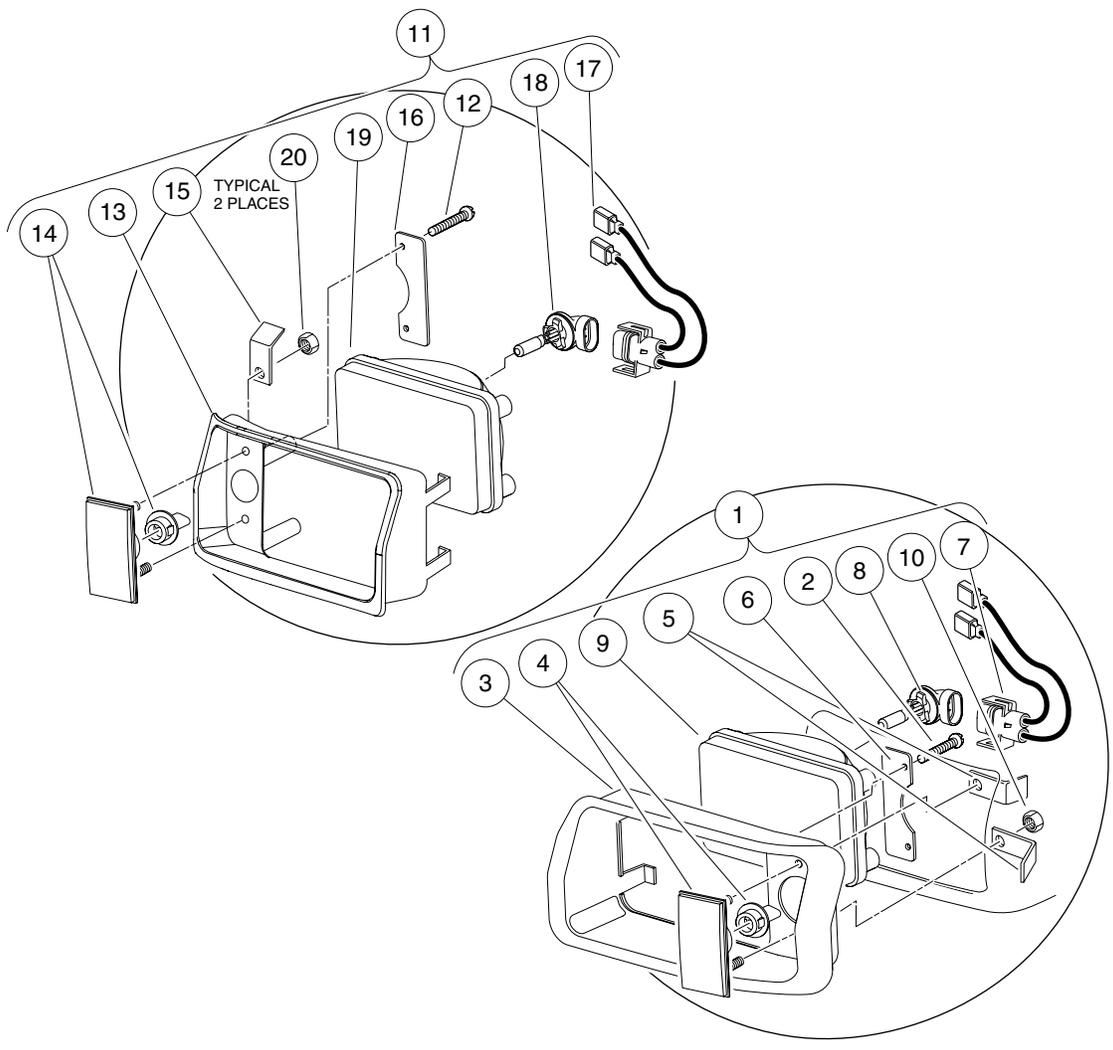
12

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| ITEM  | PART NO.  | DESCRIPTION  | QTY |
|---|-----------|--|-----|
|   |           | 1 2 3 4  |     |
| 1   | 1013857   | Knob, Light Switch .....   | 1   |
| 2   | 101814201 | Indicator, Battery Condition, 48-Volt .....                      | 1   |
| 3   | 101830701 | Nut, Key Switch .....  | 1   |
| 4   | 102025701 | Screw, Tuflok Panel, 1/4 .....                                   | 7   |
| 5   | 102051701 | Nut, Key Switch .....  | 1   |
| 6   | 102051901 | Switch, Light .....  | 1   |
| 7   | 102198001 | Receptacle, Accessory * .....                                    | 1   |
| 8   | N/A       | Rivet, Micro Tuflok .....  | 2   |
| 9   | 102508601 | Key Switch, Electric .....                                       | 1   |
| 10  | 102508701 | Light, Battery .....   | 1   |
| 11  | 102804503 | Panel, Instrument .....  | 1   |
| 12  | 102804504 | Panel, Instrument (With 12-Volt Accessory Outlet Cutout) * ..... | 1   |
| 13  | 102830801 | Set, Key .....   | 1   |
| <p style="margin: 0;">Note: Some vehicles include push-on retainers in addition to screws (item 8) to secure the battery condition indicator (item 2). Also note that items marked with an asterisk (*) are to be used only on vehicles equipped with a 12-volt accessory outlet.</p> |           |  |     |

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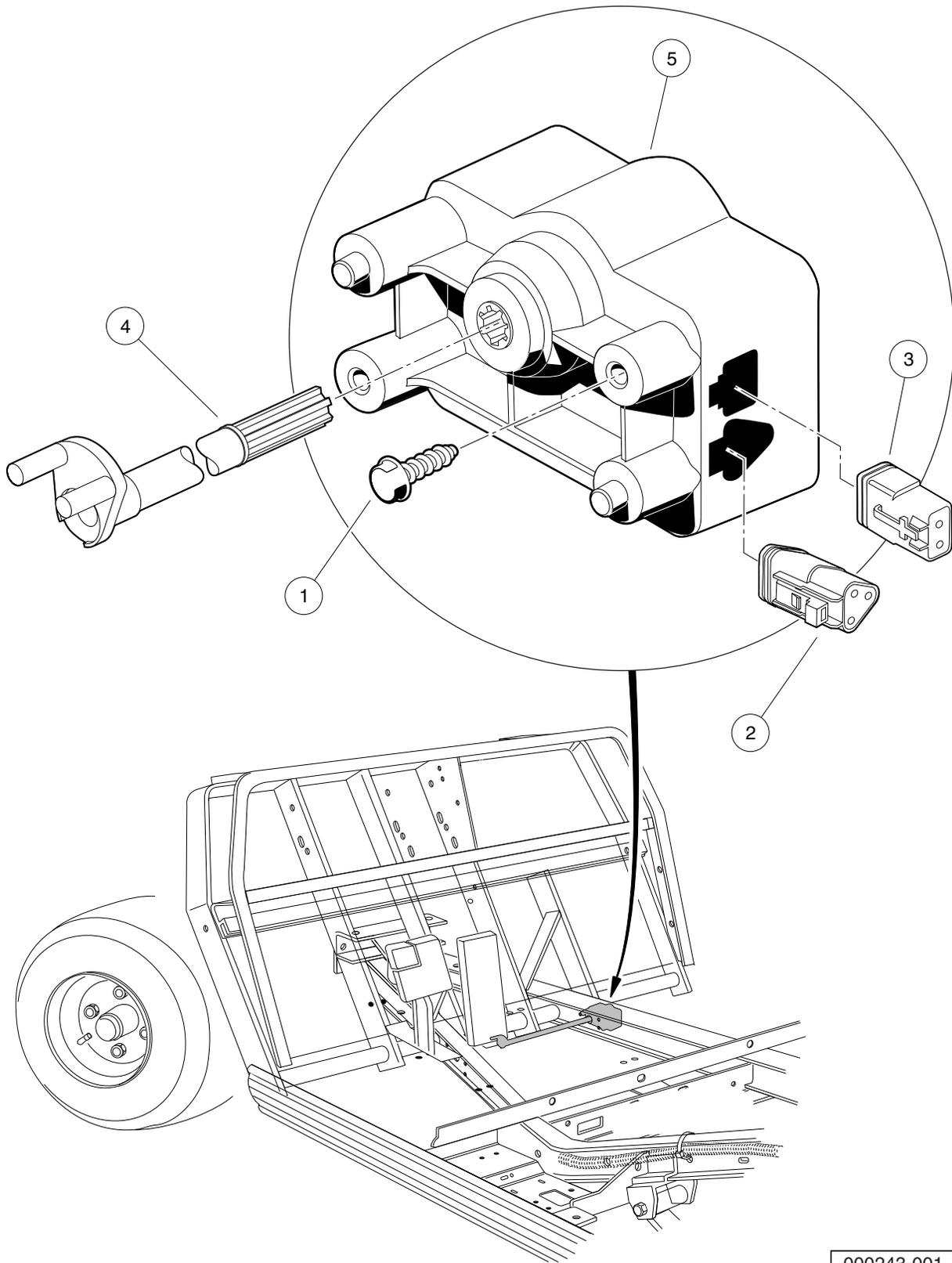
000073-002

# HEADLIGHTS

**12**

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| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 101988001 | Headlight Assembly, Driver-Side Single Beam (includes items 2 through 10) ..... | 1   |
| 2    | 1013461   | Screw, #10-16 Hex-Head Hi-Lo .....  | 2   |
| 3    | 1016880   | Headlight Bezel, Left .....   | 1   |
| 4    | 1017062   | Turn Signal Lens Assy .....   | 1   |
| 5    | 1017064   | Mounting Bracket .....  | 2   |
| 6    | 1017065   | Retainer, Headlight .....   | 1   |
| 7    | 101987901 | Connector Harness Assembly, Headlight .....                                     | 1   |
| 8    | 101988101 | Bulb, Headlight .....   | 1   |
| 9    | 101988201 | Lens, Headlight .....   | 1   |
| 10   | 7893      | Nut, #10-32 Hex .....   | 2   |
| 11   | 101988002 | Headlight Assy, Passenger-Side Single Beam (includes items 12 through 20) ....  | 1   |
| 12   | 1013461   | Screw, #10-16 Hex-Head Hi-Lo .....  | 2   |
| 13   | 1016879   | Headlight Bezel, Right .....  | 1   |
| 14   | 1017062   | Turn Signal Lens Assy .....   | 1   |
| 15   | 1017064   | Mounting Bracket .....  | 2   |
| 16   | 1017065   | Retainer, Headlight .....   | 1   |
| 17   | 101987901 | Connector Harness Assembly, Headlight .....                                     | 1   |
| 18   | 101988101 | Bulb, Headlight .....   | 1   |
| 19   | 101988201 | Lens, Headlight .....   | 1   |
| 20   | 7893      | Nut, #10-32 Hex .....   | 2   |



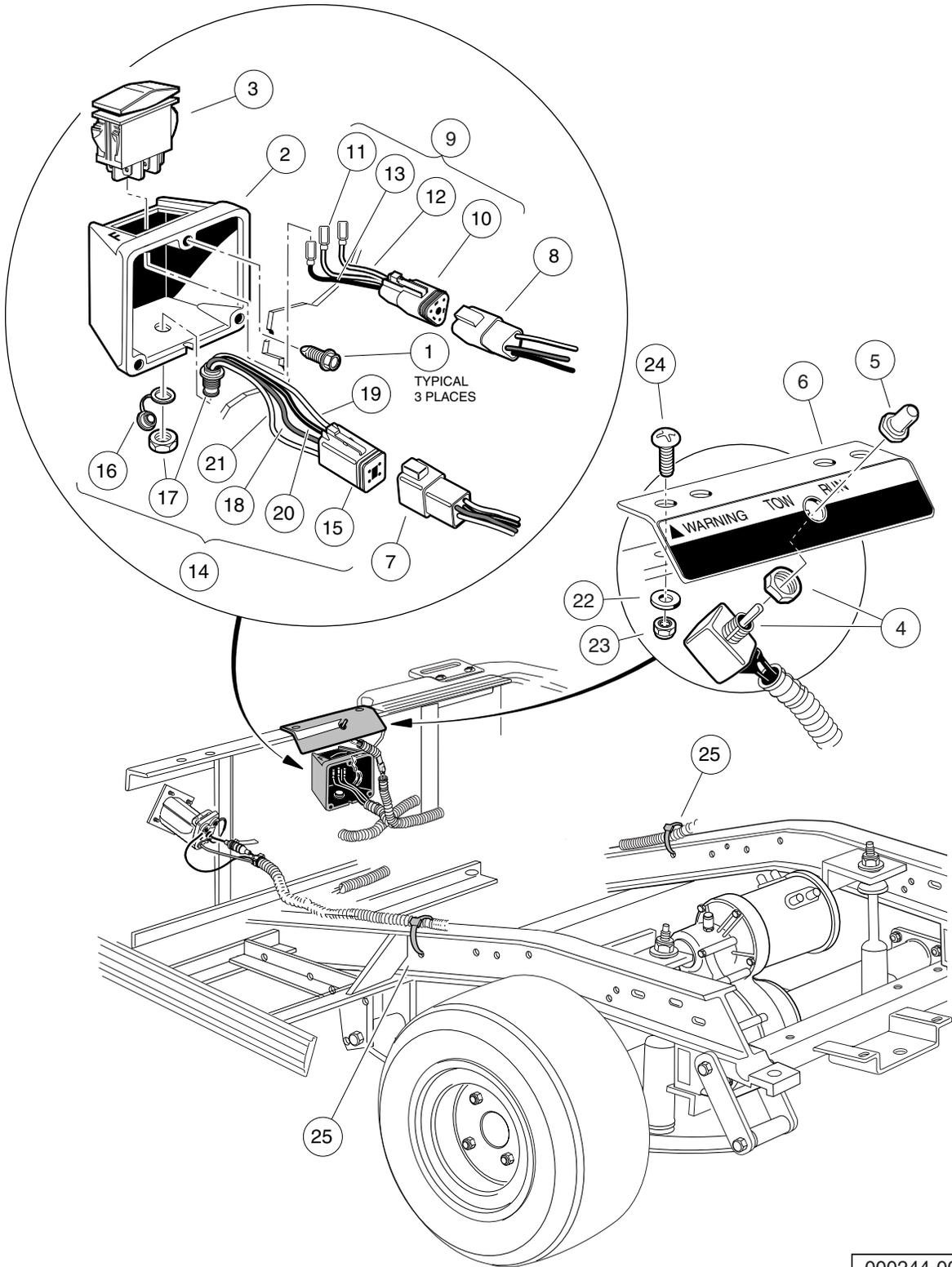
000243-001

# MOTOR CONTROLLER OUTPUT REGULATOR (MCOR)

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

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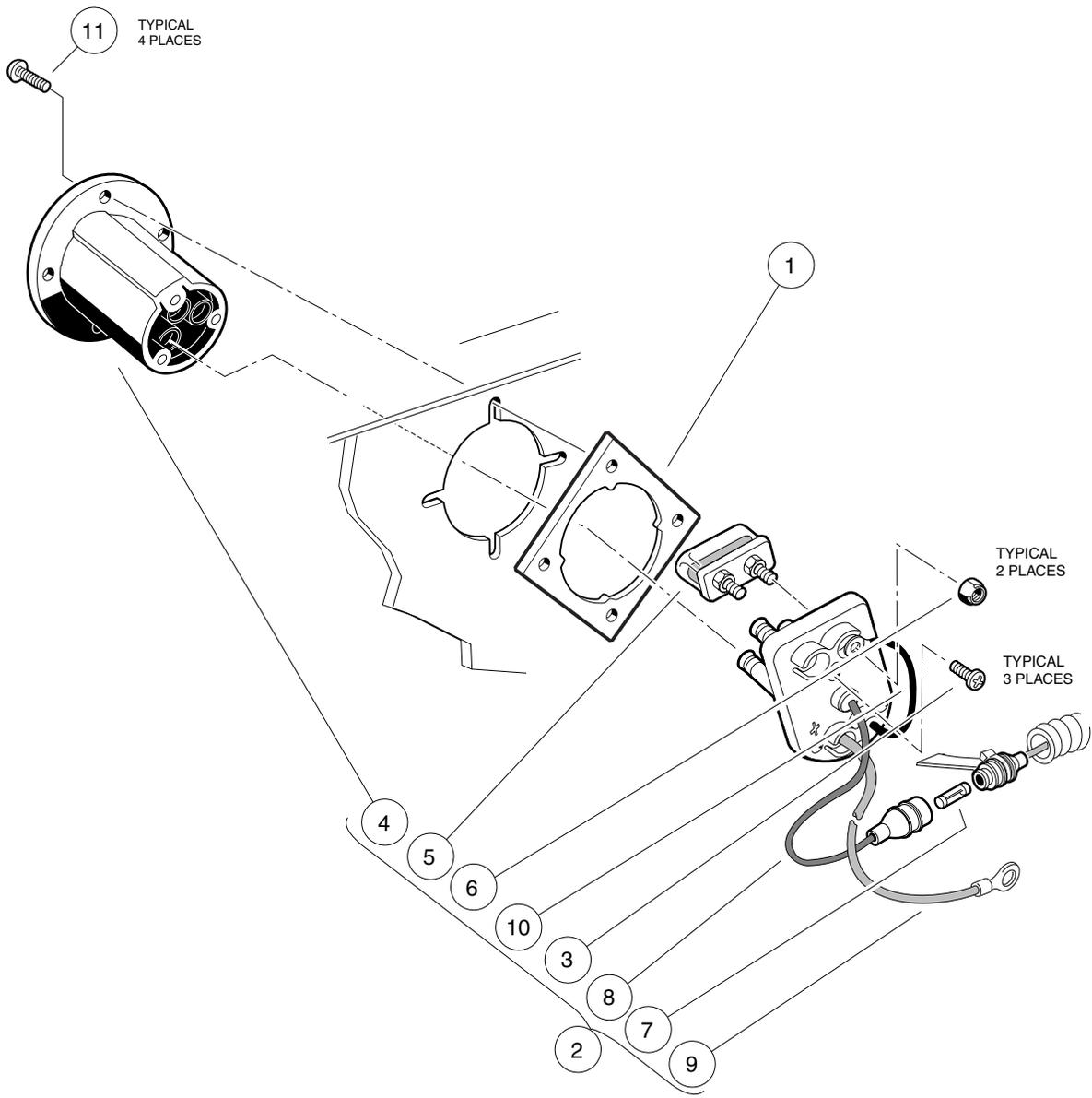
000244-001

# FORWARD/REVERSE SWITCH, TOW/RUN SWITCH

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1012285   | Screw, 1/4 X 0.625 Hex-Head .....                              | 3   |
| 2    | 101855002 | Case, FNR Switch .....   | 1   |
| 3    | 101856002 | Switch, Rocker, Single-Pole .....                              | 1   |
| 4    | 101908101 | Switch Assembly, Tow/Run .....                                 | 1   |
| 5    | 101908401 | Boot, Switch .....   | 1   |
| 6    | 101922501 | Bracket, Tow/Run Switch Mounting .....                         | 1   |
| 7    | 101932401 | Kit, 4-Pin Receptacle and Wedge Lock .....                     | 1   |
| 8    | 101942301 | Kit, 3-Pin Wedge Lock .....                                    | 1   |
| 9    | 102266601 | Wire Assembly, FNR Switch (includes items 10 through 13) ..... | 1   |
| 10   | 101920101 | Kit, 3-Pin Wedge Lock .....                                    | 1   |
| 11   | N/A       | Wire Assembly, #18 Blue .....                                  | 1   |
| 12   | N/A       | Wire Assembly, #18 Orange .....                                | 1   |
| 13   | N/A       | Wire Assembly, #18 Brown .....                                 | 1   |
| 14   | 102266701 | Wire Assembly, IQDM Port (includes items 15 through 21) .....  | 1   |
| 15   | 101932501 | Kit, 4-Pin Wedge Lock .....                                    | 1   |
| 16   | 102196901 | Dust Cap .....   | 1   |
| 17   | N/A       | Connector Mount, Four-Pin .....                                | 1   |
| 18   | N/A       | Wire Assembly, #18 Red/Yellow .....                            | 1   |
| 19   | N/A       | Wire Assembly, #18 Black/Yellow .....                          | 1   |
| 20   | N/A       | Wire Assembly, #18 Blue/Yellow .....                           | 1   |
| 21   | N/A       | Wire Assembly, #18 Green/Yellow .....                          | 1   |
| 22   | 332       | Washer, 1/4 Type A Narrow Flat .....                           | 2   |
| 23   | 8233      | Locknut, 1/4-20 Nylon Insert .....                             | 2   |
| 24   | 8248      | Screw, 1/4-20 X 0.75 Truss-Head Machine .....                  | 2   |
| 25   | 8990      | Tie Wrap, 8" Nylon .....                                       | 1   |

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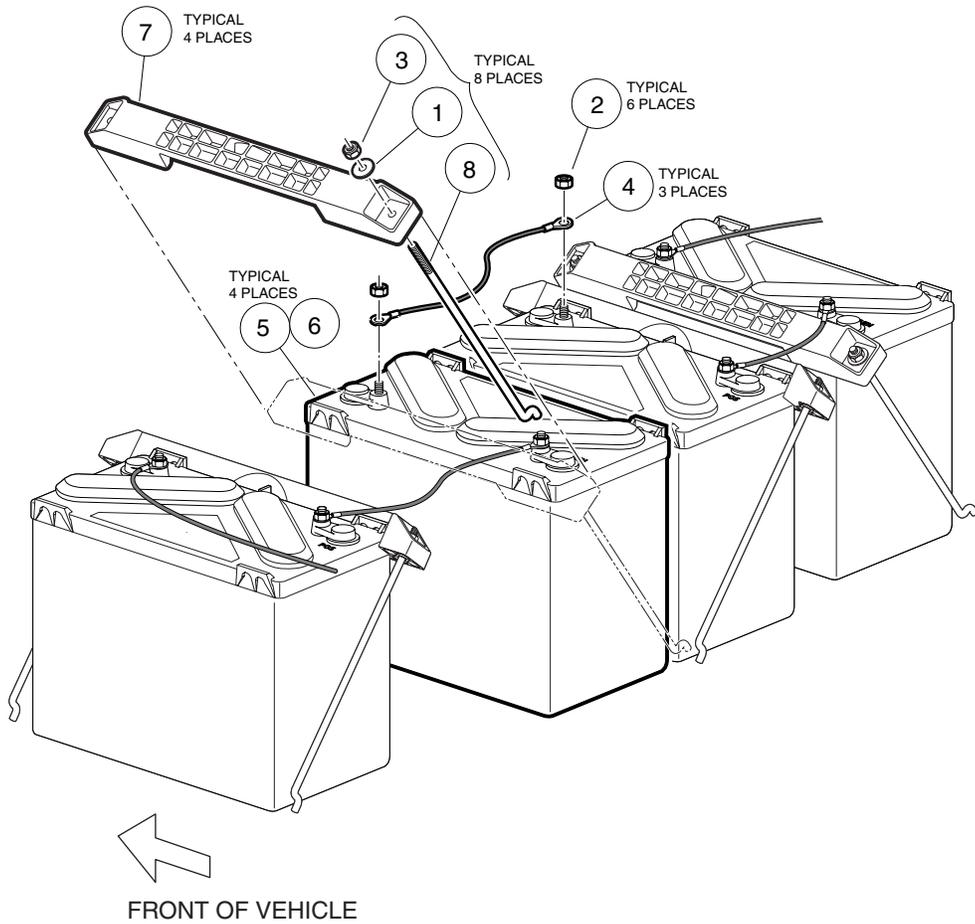
000369-001

# BATTERY CHARGER RECEPTACLE

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 101801001 | Plate, Receptacle Backing .....                                  | 1   |
| 2    | 101802101 | Fuse and Receptacle Assembly (includes items 3 through 10) ..... | 1   |
| 3    | 1017705   | Screw, #8 X 5/8 Phillips Pan-Head Type AB .....                  | 3   |
| 4    | 101796501 | Receptacle .....   | 1   |
| 5    | 101796801 | Fuse Assembly (includes item 6) .....                            | 1   |
| 6    | 1013061   | Locknut, #10-32 Nylon Insert .....                               | 2   |
| 7    | 101894901 | 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   | 101832001 | Screw, #7-19 X 0.625 Phillips Pan-Head Tap .....                 | 4   |

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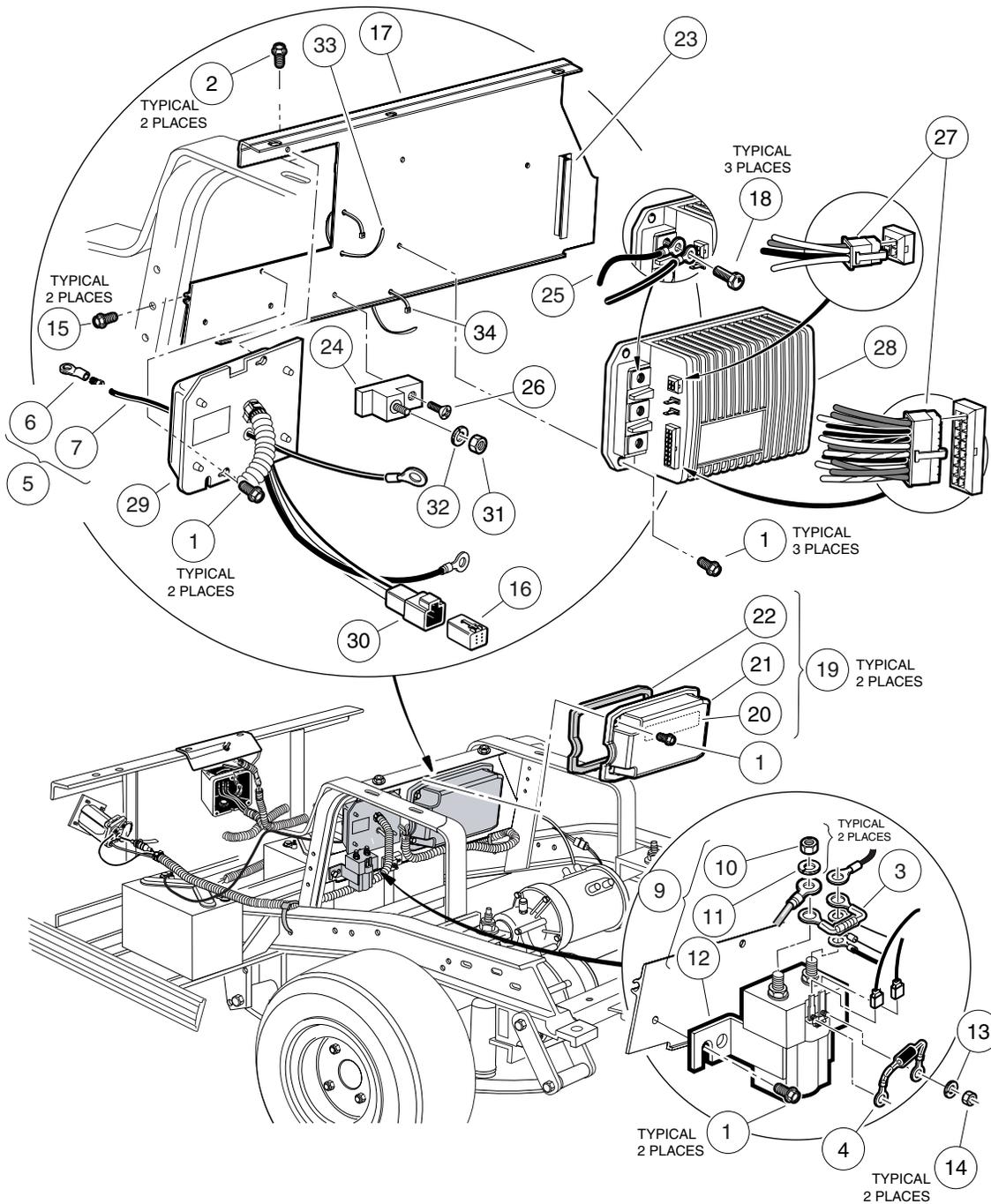
000241-002

# BATTERIES, ELECTRIC VEHICLE

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

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000242-002

# OBC, CONTROLLER, AND SOLENOID – ELECTRIC VEHICLE

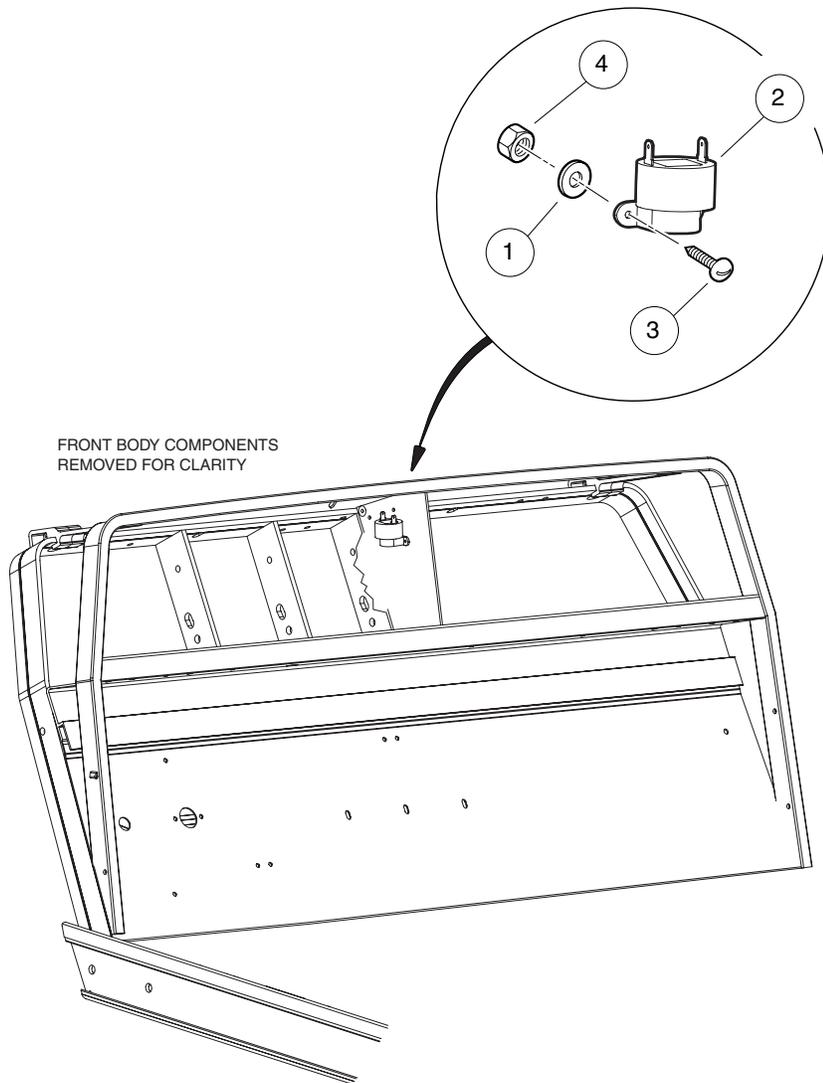
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| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 1012285   | Screw, 1/4 X 0.625 Hex-Head .....                               | 9   |
| 2    | 1014288   | Screw, 5/16-18 X 0.75 Thread-Forming .....                      | 2   |
| 3    | 1014947   | Resistor Assembly .....   | 1   |
| 4    | 1014948   | Diode .....   | 1   |
| 5    | 101827801 | Ground Wire Kit, 48-Volt (includes items 6 through 8) .....     | 1   |
| 6    | N/A       | Compression Lug .....   | 1   |
| 7    | N/A       | Wire Assembly, Black .....                                      | 1   |
| 8    | 8990      | Tie Wrap, 8" Nylon .....  | 3   |
| 9    | 101908701 | Solenoid, 48-Volt (includes items 10 through 14) .....          | 1   |
| 10   | 1012528   | Nut, M8-1.25 Hex .....  | 2   |
| 11   | 1013734   | Lockwasher, 8mm Split .....                                     | 2   |
| 12   | N/A       | Solenoid, 48-Volt .....   | 1   |
| 13   | N/A       | Washer, Lock .....  | 2   |
| 14   | N/A       | Nut .....   | 2   |
| 15   | 101910401 | Screw, 5/16-18 X 1.25 Thrd Frm .....                            | 2   |
| 16   | 101932701 | Kit, 6-Pin Receptacle and Wedge Lock .....                      | 1   |
| 17   | 101965205 | Plate, Component Com Solnd .....                                | 1   |
| 18   | 102240501 | Bolt, Controller, Terminal .....                                | 3   |
| 19   | 102240601 | Cover Assembly, Controller (includes items 20 through 22) ..... | 1   |
| 20   | 101931501 | Decal, Component Cover .....                                    | 1   |
| 21   | 102240701 | Cover, Controller .....   | 1   |
| 22   | 102240801 | Gasket, Controller Cover .....                                  | 1   |
| 23   | ****      | Extrusion, Cover Support .....                                  | 1   |
| 24   | 102259801 | Terminal Block .....  | 1   |
| 25   | 102263601 | Wire Assy, #10 Black .....                                      | 1   |
| 26   | 102263701 | Screw, #10-24 X 0.75 Phillips, Thread-Forming .....             | 1   |
| 27   | 102266501 | Kit, Connector, IQ Controller .....                             | 1   |
| 28   | 102806201 | Controller, IQ, 48-volt .....                                   | 1   |
| 29   | 102852001 | Onboard Computer (includes item 30) .....                       | 1   |
| 30   | 101932601 | Kit, 6-Pin Wedge Lock .....                                     | 1   |
| 31   | 1242      | Nut, 5/16-18 Hex .....  | 1   |
| 32   | 7174      | Lockwasher, 5/16 Split .....                                    | 1   |
| 33   | 8639      | Tie Wrap, 11" Nylon .....                                       | 1   |
| 34   | 8990      | Tie Wrap, 8" Nylon .....  | 1   |
|      |           | **** Special order item available upon request.                 |     |

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000363-001

# REVERSE BUZZER

| ITEM | PART NO. | DESCRIPTION                                  | QTY |
|------|----------|--|-----|
|      |          | 1 2 3 4                                      |     |
| 1    | 1012431  | Washer, #4 Flat .....                        | 1   |
| 2    | 1016851  | Buzzer, Reverse (9-48 VDC) .....             | 1   |
| 3    | 8056     | Screw, #4-40 X 0.75 Round-Head Machine ..... | 1   |
| 4    | 8057     | Nut, #4-40 Hex Machine .....                 | 1   |

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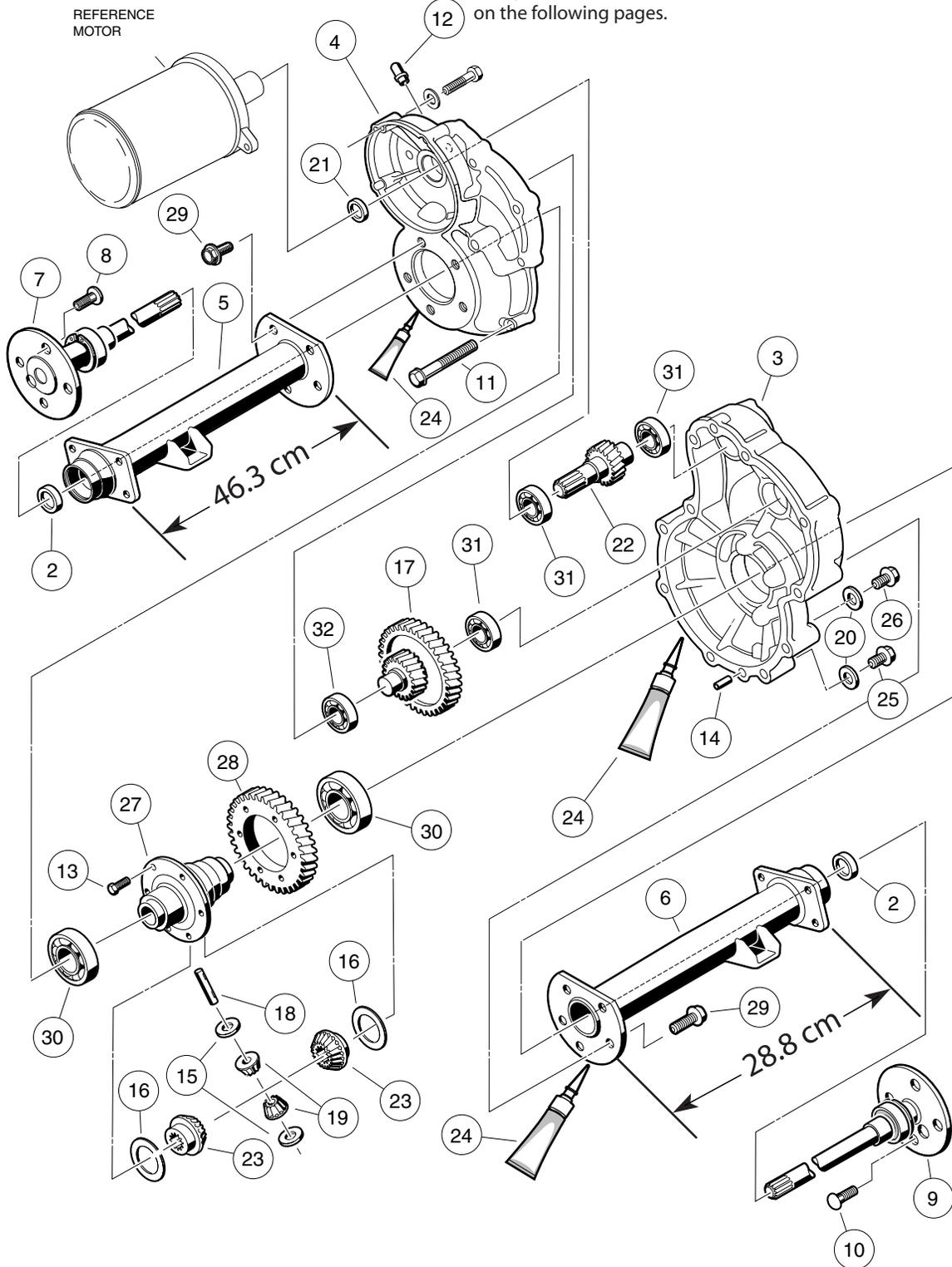
# TRANSAXLE – ELECTRIC VEHICLES

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Note: This transaxle (as a complete unit) has been discontinued. To replace the entire transaxle, use the transaxle shown on the following pages.



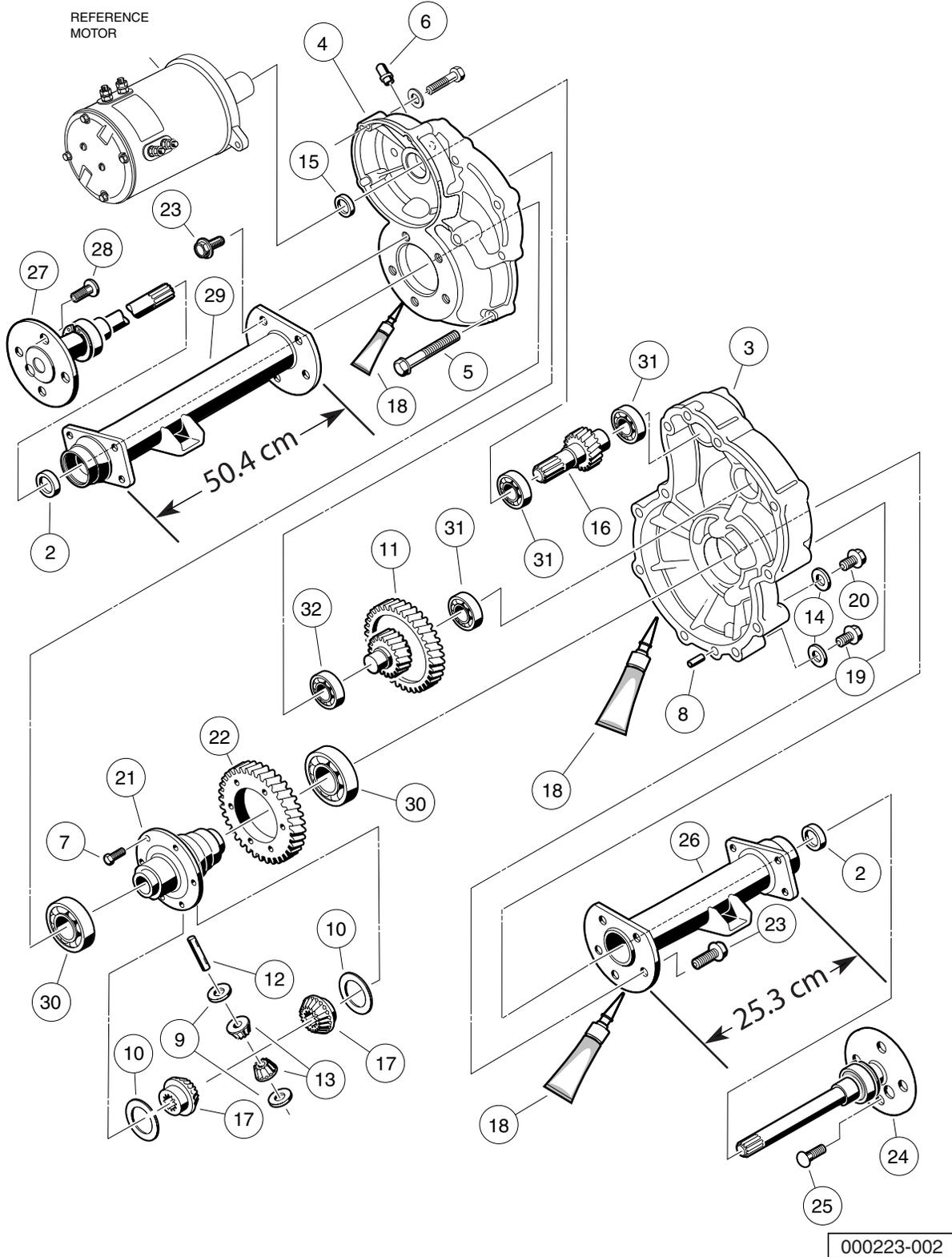
000223-001

# TRANSAXLE – ELECTRIC VEHICLES (EARLIER STYLE)

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| ITEM   | PART NO.  | DESCRIPTION   | QTY |
|--|-----------|---|-----|
|  |           | 1 2 3 4   |     |
| 1  | N/A       | Transaxle -12.3 (includes items 2 through 32) .....   | 1   |
| 2  | 1013794   | Axle Shaft Oil Seal .....                             | 2   |
| 3  | 101895401 | Gear Case, Left-Hand .....                            | 1   |
| 4  | 101895501 | Gear Case, Passenger-Side .....                       | 1   |
| 5  | 101895601 | Tube, Axle, Passenger-Side .....                      | 1   |
| 6  | 101895701 | Tube, Axle, Driver-Side .....                         | 1   |
| 7  | 101895801 | Axle Assembly, Passenger-Side (includes item 8) ..... | 1   |
| 8  | 101922201 | Lug Stud .....  | 4   |
| 9  | 101895901 | Axle Assembly, Driver-Side (includes item 10) .....   | 1   |
| 10   | 101922201 | Lug Stud .....  | 4   |
| 11   | 101897001 | Screw, M8-1.25 X 60mm Hex-Head .....                  | 11  |
| 12   | 101897201 | Breather .....  | 1   |
| 13   | 101897401 | Screw, M10-1.25 X 25mm .....                          | 6   |
| 14   | 101897601 | Pin, 11mm OD X 8.5mm ID X 10mm .....                  | 2   |
| 15   | 101903601 | Washer, Thrust .....                                  | 2   |
| 16   | 101903701 | Washer, Thrust .....                                  | 2   |
| 17   | 101906901 | Intermediate Shaft Assembly .....                     | 1   |
| 18   | 101922101 | Pin, 15.99mm X 88.7mm Dowel .....                     | 1   |
| 19   | 101923001 | Gear, Differential Idler .....                        | 2   |
| 20   | 101923201 | Gasket .....  | 2   |
| 21   | 101923501 | Seal, Lip .....                                       | 1   |
| 22   | 101923701 | Shaft, Input .....                                    | 1   |
| 23   | 101923901 | Gear, Differential .....                              | 2   |
| 24   | 101928701 | Sealant .....   | A/R |
| 25   | 101972101 | Plug, M14-1.5 X 12mm Magnetic .....                   | 1   |
| 26   | 101972201 | Plug, M14-1.5 X 12mm Hex .....                        | 1   |
| 27   | 102356601 | Housing, Differential, 6 Bolt .....                   | 1   |
| 28   | 102356801 | Gear, Differential Output, 6-Bolt .....               | 1   |
| 29   | 102357001 | Screw, Flg Hd M10 X 1.5 X 30 .....                    | 10  |
| 30   | 7330      | Inner Axle, Tube Bearing .....                        | 2   |
| 31   | 7335      | Bearing .....   | 3   |
| 32   | 7336      | Bearing .....   | 1   |
| <p style="text-align: center;">Note: If either the Differential Output Gear (item 28) or the Differential Housing (item 27) require replacement, both must be purchased at the same time. Items 27 and 28 are replacements for all gear and differential housing combinations in this transaxle.</p> |           |   |     |

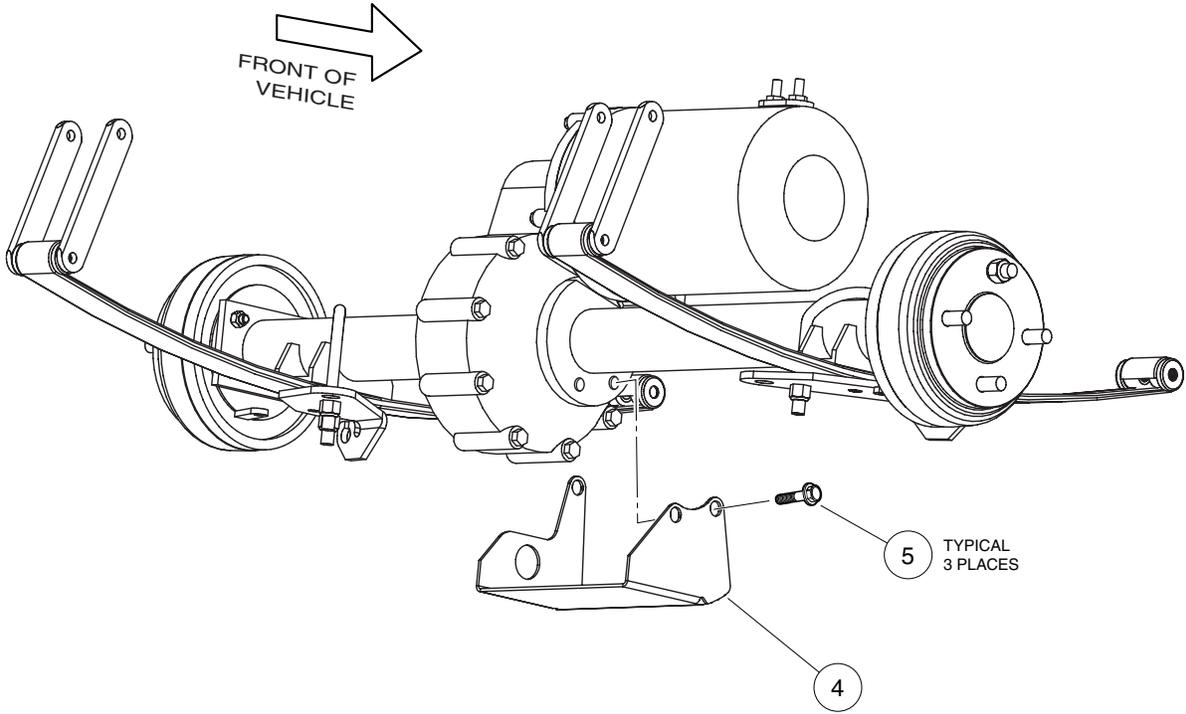


# TRANSAXLE – ELECTRIC VEHICLES (LATER STYLE)

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

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000365-001

# DIFFERENTIAL GUARD

| ITEM | PART NO.  | DESCRIPTION   | QTY |
|------|-----------|---|-----|
|      |           | 1 2 3 4   |     |
| 1    | 101611402 | Differential Guard Kit (includes items 2 through 4) ..... | 1   |
| 2    | 101911401 | Kit - Support Brace .....                                 | 2   |
| 3    | 101936101 | Screw, M10-1.50 X 60mm Hex Cap .....                      | 2   |
| 4    | N/A       | Guard, Elect.axle Differential .....                      | 1   |
| 5    | 102357001 | Screw, Flg Hd M10 X 1.5 X 30 .....                        | 3   |

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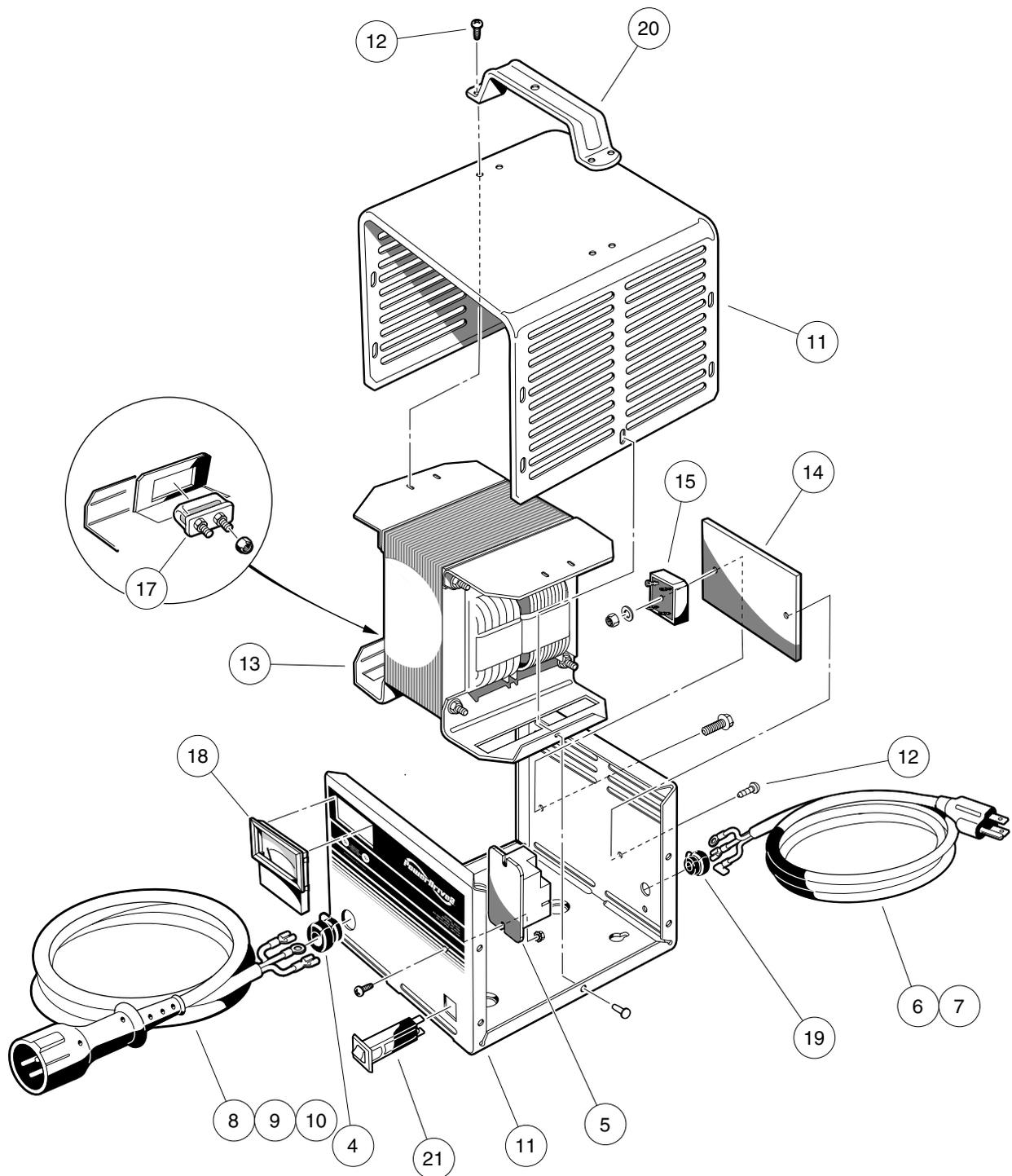
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# BATTERY CHARGER

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000291-001

# POWERDRIVE 2 BATTERY CHARGER (MODEL 22110), DOMESTIC

| ITEM  | PART NO.  | DESCRIPTION  | QTY |
|---|-----------|--|-----|
|   |           | 1 2 3 4  |     |
| 1   | 101802204 | 48-V/13-A PowerDrive 2 (9-ft. DC, 6-ft. AC) .....                                | 1   |
| 2   | 101802205 | 48-V/13-A PowerDrive 2 (12-ft. DC, 9-ft. AC) .....                               | 1   |
| 3   | 101802206 | 48-V/13-A PowerDrive 2 (20-ft. DC, 9-ft. AC) (includes items 4 through 21) ..... | 1   |
| 4   | 1012098   | Bushing, DC Cord .....   | 1   |
| 5   | 101828601 | Relay, 48-Volt .....   | 1   |
| 6   | 101828801 | Cord, AC, 80-Inch (203 cm) .....   | 1   |
| 7   | 101828802 | Cord, AC, 108-Inch (274 cm) .....  | 1   |
| 8   | 101828904 | PD2 DC Cordset, 113-inch .....   | 1   |
| 9   | 101828905 | PD2 DC Cordset, 154-inch .....   | 1   |
| 10  | 101828906 | Pd2 Dc Cordset 250 Inch .....  | 1   |
| 11  | 102273201 | PD2 Case (includes item 12) .....  | 1   |
| 12  | 7577      | Screw, #10 X 0.50 Phillips Pan-Head .....  | 12  |
| 13  | 102273301 | PD2 Transformer Asm .....  | 1   |
| 14  | 102273401 | PD2 Heatsink .....   | 1   |
| 15  | 102273501 | PD2 Diode Bridge w/Film .....  | 1   |
| 16  | 102273601 | PD2 Wire Asm .....   | 1   |
| 17  | 102273701 | PD2 Fuse Asm .....   | 1   |
| 18  | 102273801 | PD2 Ammeter .....  | 1   |
| 19  | 102273901 | PD2 AC Cord Bushing .....  | 1   |
| 20  | 102274001 | PD2 Handle .....   | 1   |
| 21  | CCX8506   | Circuit Breaker, 15-Amp/120-Volt .....   | 1   |
| <p style="text-align: center;">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.</p> |           |  |     |

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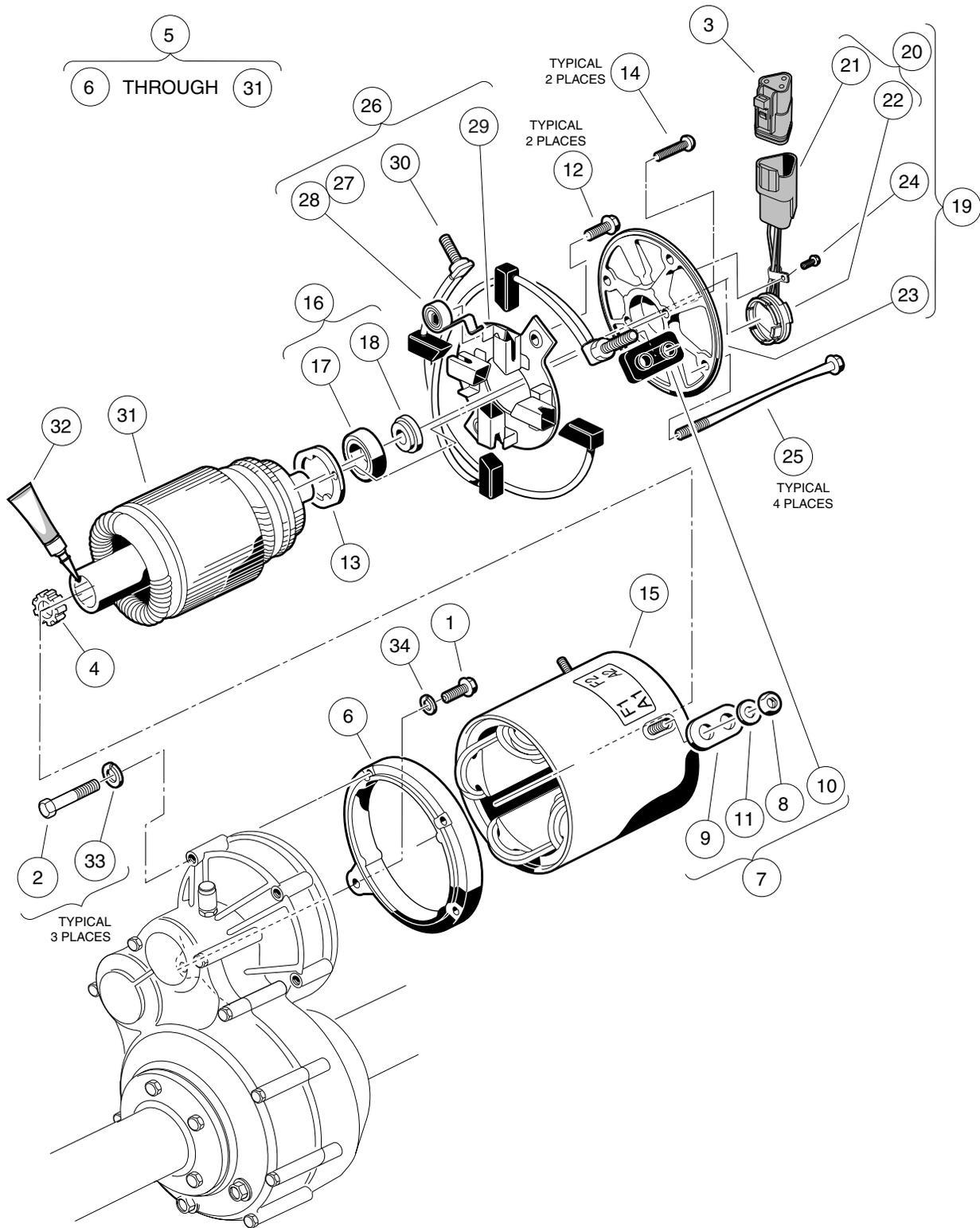
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# ELECTRIC MOTOR

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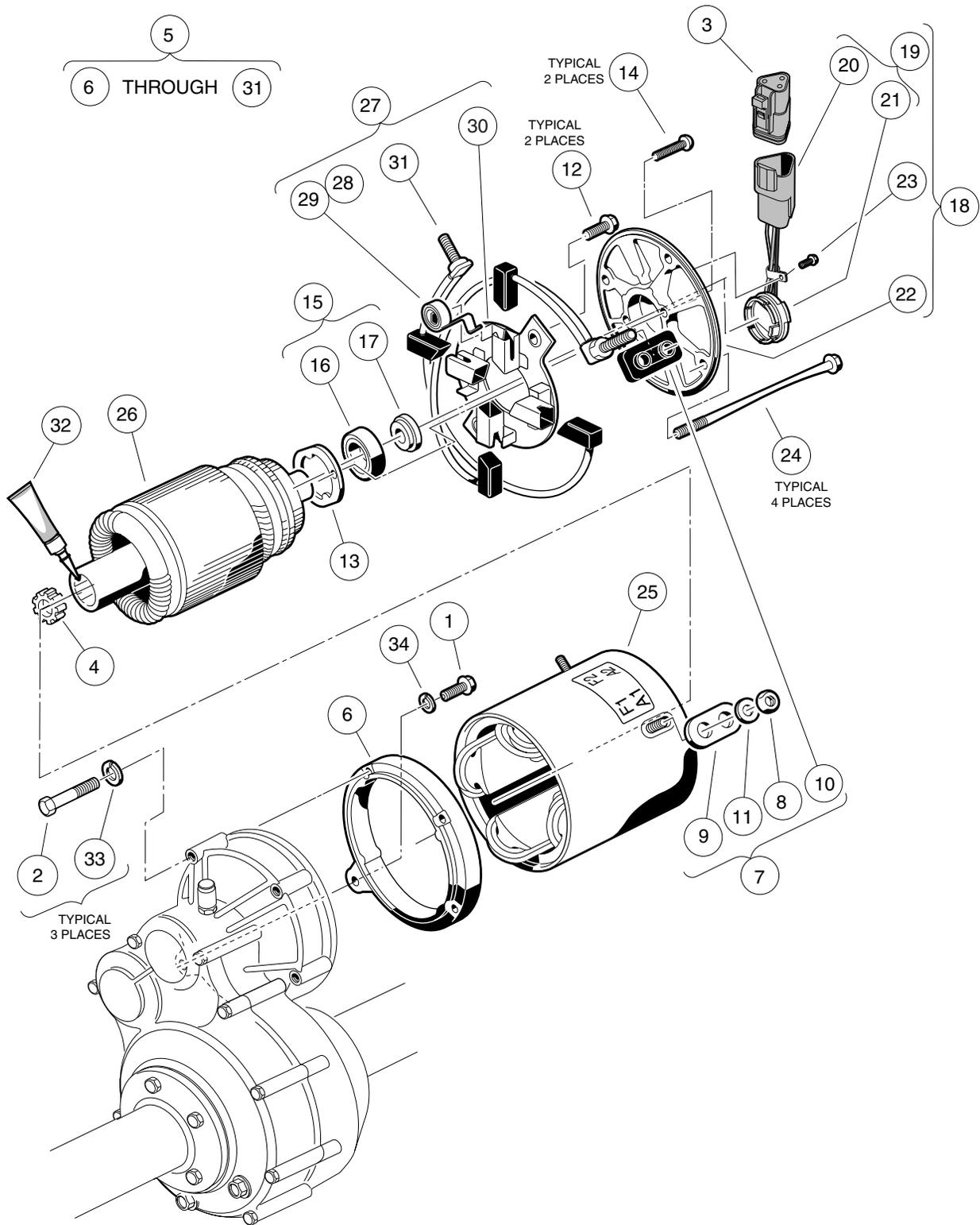
000349-001

# MOTOR (MODEL 5BC59JBS6365) – ELECTRIC VEHICLE (EARLIER STYLE)

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| ITEM  | PART NO.  | DESCRIPTION  | QTY |
|---|-----------|--|-----|
|   |           | 1 2 3 4  |     |
| 1   | 1010934   | Screw, 5/16-18 X 1.00 Hex Cap .....                              | 1   |
| 2   | 1014201   | Screw, 1/4-20 X 2.25 Hex Cap .....                               | 3   |
| 3   | 101920101 | Kit, 3-Pin Wedge Lock .....                                      | 1   |
| 4   | 102235201 | Bumper, Drive Unit .....   | 1   |
| 5   | N/A       | Motor, 48-Volt Shunt-Wound * (includes items 6 through 31) ..... | 1   |
| 6   | 1017944   | End Shield .....   | 1   |
| 7   | 1017947   | Hardware Package (includes items 8 through 11) .....             | 1   |
| 8   | 1011280   | Locknut, 5/16-18 .....   | 4   |
| 9   | N/A       | Insulator Bushing .....  | 2   |
| 10  | N/A       | Insulated Bushing .....  | 2   |
| 11  | 1241      | Washer, 5/16 Type A Flat .....                                   | 4   |
| 12  | 1017949   | Screw, #6-32 X 0.480 Hex-Head .....                              | 2   |
| 13  | 1017950   | Bearing Retainer .....   | 1   |
| 14  | 1017953   | Screw, Bearing Retainer .....                                    | 2   |
| 15  | 102265501 | Stator Shell and Winding .....                                   | 1   |
| 16  | 102265701 | Kit, Bearing and Magnet (includes items 17 and 18) .....         | 1   |
| 17  | N/A       | Ball Bearing .....   | 1   |
| 18  | N/A       | Magnet .....   | 1   |
| 19  | 102265901 | Motor End Shield Asm (includes items 20 through 24) .....        | 1   |
| 20  | 102265601 | Speed Sensor Assembly (includes items 21 and 22) .....           | 1   |
| 21  | 101942301 | Kit, 3-Pin Wedge Lock .....                                      | 1   |
| 22  | N/A       | Sensor, Speed, without Connector .....                           | 1   |
| 23  | 102266001 | End Shield, Motor .....  | 1   |
| 24  | 102267001 | Screw, #8-32 X 0.375 Hex-Head .....                              | 1   |
| 25  | 102266101 | Screw, #10 - 32 X 8.250 .....                                    | 4   |
| 26  | 102327801 | Brush Assembly, Beveled (includes items 27 through 30) .....     | 1   |
| 27  | 1011411   | Brush Spring Package (includes item 28) .....                    | 1   |
| 28  | N/A       | Brush Spring .....   | 4   |
| 29  | 1017948   | Brush Rigging .....  | 1   |
| 30  | 102251901 | Brush Kit, Motor .....   | 1   |
| 31  | N/A       | Armature .....   | 1   |
| 32  | 102243403 | Lubricant, Moly-Teflon (Single-Use Tube) .....                   | 1   |
| 33  | 451       | Lockwasher, 1/4 Helical Split .....                              | 3   |
| 34  | 7174      | Lockwasher, 5/16 Split .....                                     | 1   |
| <p>* Note: The model 5BC59JBS6365 motor has been discontinued. To replace the motor, use motor model 5BC59JBS6365A.</p> |           |  |     |



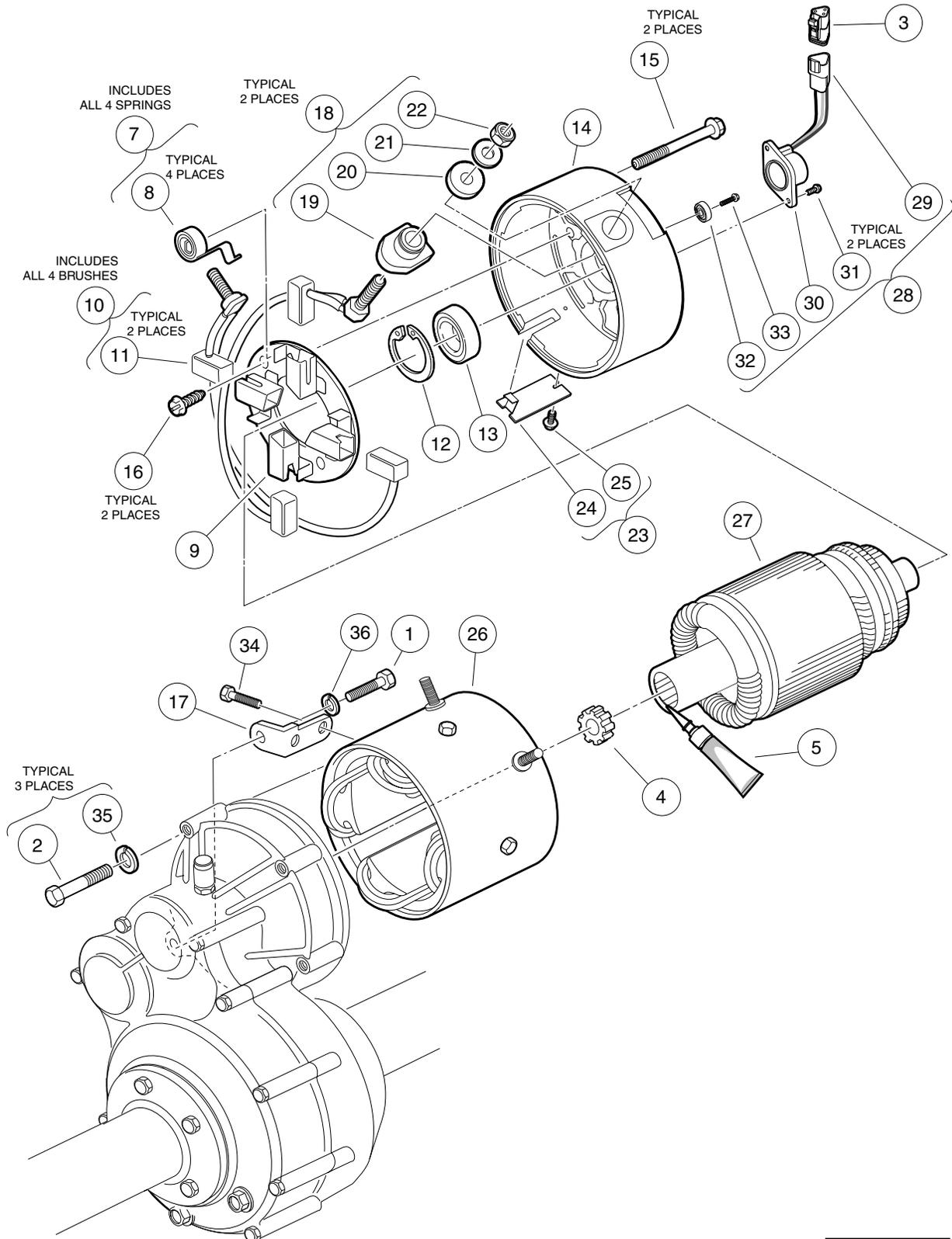
000349-002

# MOTOR (MODEL 5BC59JBS6365A) – ELECTRIC VEHICLE (LATER STYLE)

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

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000185-001

# MOTOR (MODEL EJ4-4001) – ELECTRIC VEHICLE

| ITEM | PART NO.  | DESCRIPTION  | QTY |
|------|-----------|--|-----|
|      |           | 1 2 3 4  |     |
| 1    | 1010934   | Screw, 5/16-18 X 1.00 Hex Cap .....                                  | 1   |
| 2    | 1014201   | Screw, 1/4-20 X 2.25 Hex Cap .....                                   | 3   |
| 3    | 101920101 | Kit, 3-Pin Wedge Lock .....  | 1   |
| 4    | 102235201 | Bumper, Drive Unit .....   | 1   |
| 5    | 102243403 | Lubricant, Moly-Teflon (Single-Use Tube) .....                       | 1   |
| 6    | 102705001 | IQ Electric Motor, 48-VDC 3.3 hp (includes items 7 through 34) ..... | 1   |
| 7    | 102186001 | Spring Kit, Motor Brush (includes item 8) .....                      | 1   |
| 8    | N/A       | Spring, Brush, Starter/gen .....                                     | 4   |
| 9    | 102186101 | Brush Box Assembly .....   | 1   |
| 10   | 102186201 | Brush Kit, Motor (includes item 11) .....                            | 1   |
| 11   | N/A       | Assembly, Brush and Terminal .....                                   | 2   |
| 12   | 102186301 | Ring, 2.24" Internal Retaining .....                                 | 1   |
| 13   | 102186401 | Bearing, Ball .....  | 1   |
| 14   | 102186701 | End Cap, Motor .....   | 1   |
| 15   | 102186801 | Screw, 1/4-20 X 2.25 Hex-Head Washer .....                           | 2   |
| 16   | 102186901 | Screw, #8-32 X .5 Hex-Head .....                                     | 2   |
| 17   | 102187001 | L-Bracket, Motor .....   | 1   |
| 18   | 102187101 | 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   | 102187201 | 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   | 102704701 | Frame and Field Assembly .....                                       | 1   |
| 27   | 102704801 | Armature Assembly .....  | 1   |
| 28   | 102704901 | Kit, Speed Sensor (includes items 29 through 33) .....               | 1   |
| 29   | 101942301 | 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   | 451       | Lockwasher, 1/4 Helical Split .....                                  | 3   |
| 36   | 7174      | Lockwasher, 5/16 Split .....   | 1   |

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# MAINTENANCE AND SERVICE TOOLS

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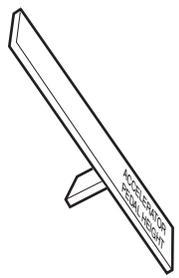
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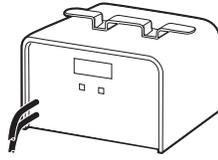
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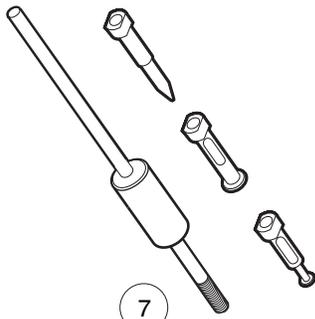
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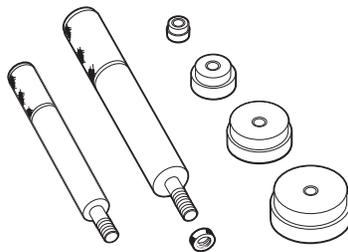
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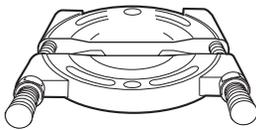
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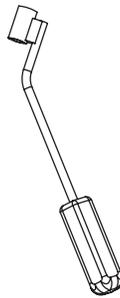
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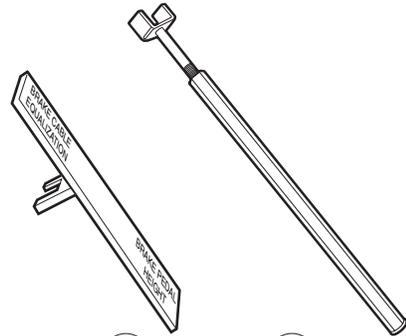
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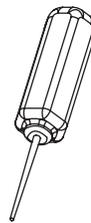
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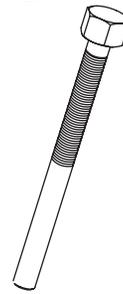
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# MAINTENANCE AND SERVICE TOOLS

| ITEM | PART NO.  | DESCRIPTION   | QTY<br>DIESEL | QTY<br>GAS | QTY<br>ELEC |
|------|-----------|---|---------------|------------|-------------|
|      |           | <p style="margin: 0;">1 2 3 4</p> <p style="margin: 0;">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.</p> |               |            |             |
| 1    | 101871001 | Accelerator Pedal Adjustment Tool .....   |               | 1          | 1           |
| 2    | 101813202 | Adhesive, Guide Ring, 3-Gram Tube .....   |               |            | 1           |
| 3    | 101641202 | Arbor .....   |               | 1          |             |
| 4    | 101831901 | Battery Discharge Machine, 36/48 Volt .....   |               |            | 1           |
| 5    | 1014305   | Battery Terminal Protector Spray .....  | 1             | 1          | 1           |
| 6    | 1011767   | Battery Thermometer .....   | 1             | 1          | 1           |
| 7    | 1016417   | Bearing and Oil Seal Remover Assembly .....   | 1             | 1          | 1           |
| 8    | 1016416   | Bearing Driver Set .....  | 1             | 1          | 1           |
| 9    | 1012811   | Bearing Puller .....  | 1             | 1          | 1           |
| 10   | 1012812   | Bearing Puller Wedge Attachment .....   | 1             | 1          | 1           |
| 11   | 1013582   | Brake Adjustment Tool (used only on vehicles with manually adjusted mechanical brakes) .....  |               | 1          | 1           |
| 12   | 102555501 | Brake Cable Release Tool .....  | 1             | 1          | 1           |
| 13   | 102249901 | 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   | 101887101 | Calibration Test Module .....   |               |            | 1           |
| 17   | 101808401 | Cam Installation Tool .....   |               | 1          |             |
| 18   | 102562401 | Charger Bezel Tool .....  |               |            | 1           |
| 19   | 102686101 | 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   |               |            |             |

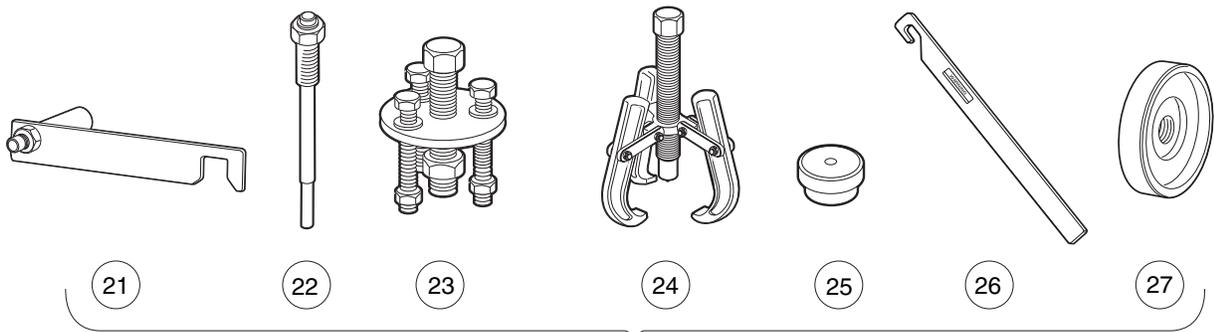
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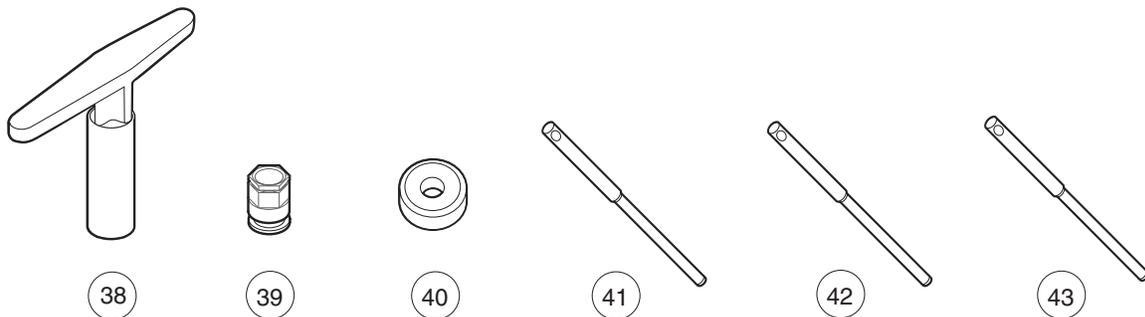
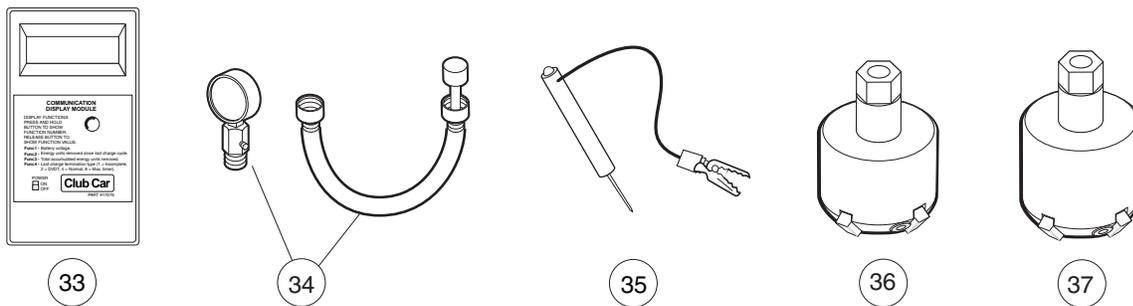
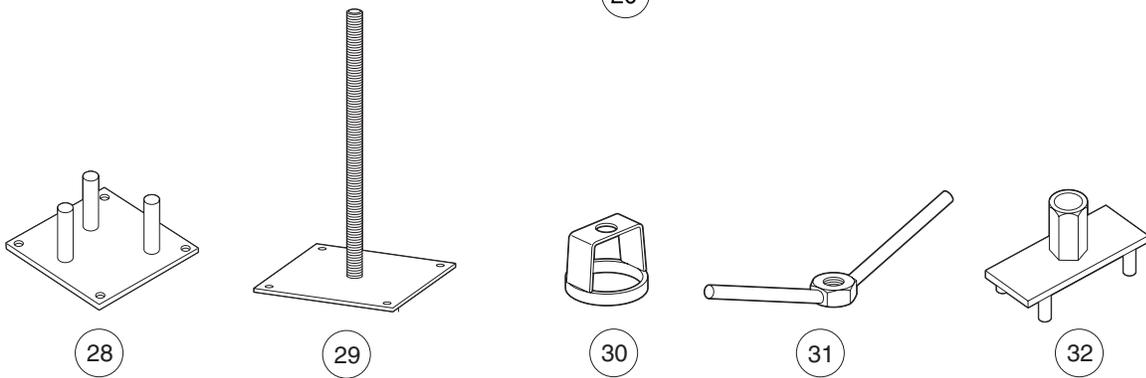
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**16**  
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**D**



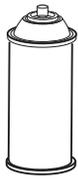
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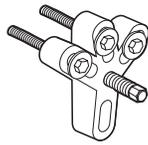
# MAINTENANCE AND SERVICE TOOLS, CONTINUED

| ITEM | PART NO.  | DESCRIPTION  | QTY    | QTY | QTY  | 16                               |
|------|-----------|--|--------|-----|------|----------------------------------|
|      |           |  | DIESEL | GAS | ELEC |                                  |
|      |           | 1 2 3 4  |        |     |      |                                  |
| 20   | 1014510   | Clutch Tool Kit (includes items 21 - 27) .....   |        | 1   |      | <b>G</b><br><b>E</b><br><b>D</b> |
| 21   | 1014498   | Clutch Alignment Tool (for pre-unitized transaxle vehicles built prior to 1997 model year) ..... |        | 1   |      |                                  |
| 22   | 1014496   | Drive Clutch Puller (for Kawasaki engines only) .....  |        | 1   |      |                                  |
| 23   | 1014497   | Drive Clutch Hub Puller (for Kawasaki engines only) .....  |        | 1   |      |                                  |
| 24   | 1014508   | Driven Clutch Cam Puller (for Kawasaki engines only) .....                                       |        | 1   |      |                                  |
| 25   | 1014507   | Driven Clutch Puller Plug (for Kawasaki engines only) .....                                      |        | 1   |      |                                  |
| 26   | 1015524   | Drive Clutch Holder Tool Assembly (for Kawasaki engines only)                                    |        | 1   |      |                                  |
| 27   | 101809101 | Press Weldment (for Kawasaki engines only) .....   |        | 1   |      |                                  |
| 28   | 102601501 | Drive ClutchFixed Sheave Tool (for 4x4 vehicles).....  | 1      | 1   |      |                                  |
| 29   | 102603501 | Driven Clutch Spring Compression Base (for use with items 30 and 31) (for 4x4 vehicles) .....    | 1      | 1   |      |                                  |
| 30   | 102605201 | Driven Clutch Spring Compression Collar (for use with items 29 and 31) (for 4x4 vehicles) .....  | 1      | 1   |      |                                  |
| 31   | 102606101 | Driven Clutch Spring Compression Nut (for use with items 29 and 30) (for 4x4 vehicles) .....     | 1      | 1   |      |                                  |
| 32   | 102607501 | 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   | 102773801 | Cutter, Valve Seat, #122 .....   |        | 1   |      |                                  |
| 37   | 102773901 | Cutter, Valve Seat #115.....   |        | 1   |      |                                  |
| 38   | 102774101 | Wrench, T, #505 .....  |        | 1   |      |                                  |
| 39   | 102774101 | Adapter, T-Wrench .....  |        | 1   |      |                                  |
| 40   | 102675401 | Cutter, Valve Seat, 60 Degree (requires item 51) (for Honda GX620 Gasoline Engines) .....        |        | 1   |      |                                  |
| 41   | 102774201 | Pilot, 6.6 MM .....  |        | 1   |      |                                  |
| 42   | 102774301 | Pilot, 6.62 MM .....   |        | 1   |      |                                  |
| 43   | 102774401 | Pilot, 6.65 MM .....   |        | 1   |      |                                  |
|      |           | Please refer to the maintenance and service manual for proper tool application.                  |        |     |      |                                  |

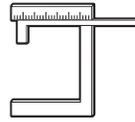
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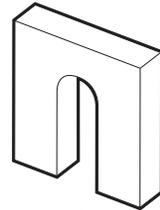
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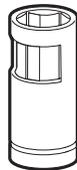
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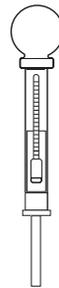
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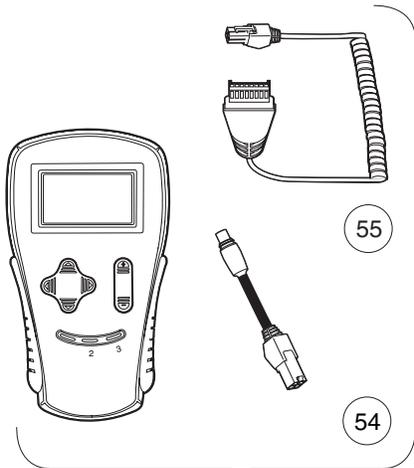
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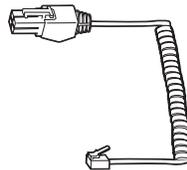
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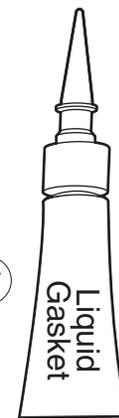
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# MAINTENANCE AND SERVICE TOOLS, CONTINUED

| ITEM | PART NO.  | DESCRIPTION  | QTY    | QTY | QTY  | 16          |
|------|-----------|--|--------|-----|------|-------------|
|      |           |  | DIESEL | GAS | ELEC |             |
|      |           | 1 2 3 4  |        |     |      | G<br>E<br>D |
| 44   | 1012151   | Dry Moly Lubricant .....   | 1      | 1   | 1    |             |
| 45   | 1016627   | Flywheel Puller Kit (for Kawasaki Engines) .....   |        | 1   |      |             |
| 46   | 102669901 | Gauge, Carburetor Float Level<br>(for Honda GX620 Gasoline Engines) .....                        |        | 1   |      |             |
| 47   | 1016418   | Gear Yoke .....  | 1      | 1   | 1    |             |
| 48   | 101933101 | Governor Shaft Installation Tool (for Kawasaki Engine Vehicles) ...                              |        | 1   |      |             |
| 49   | 102169401 | Hydraulic Brake Adjuster (for Turf/CA 272/472, Pioneer/XRT 1200,<br>Bobcat 2100, HUV 4213) ..... |        |     | 1    |             |
| 50   | 1011478   | Hydrometer .....   | 1      | 1   | 1    |             |
| 51   | 1013593   | Internal Retaining Ring Pliers .....   | 1      | 1   | 1    |             |
| 52   | 102248803 | IQ Display Module (IQDM) Kit (IQ System and IQ Plus vehicles) ...<br>(includes items 54 and 55)  |        |     | 1    |             |
| 53   | 102248804 | IQ Display Module (IQDM-P) Kit (IQ System and IQ Plus vehicles)<br>(includes items 54 and 55)    |        |     | 1    |             |
| 54   | 102251501 | Adaptor, Cable .....   |        |     | 1    |             |
| 55   | 102241502 | IQDM Series 2 Cable .....  |        |     | 1    |             |
| 56   | 102241501 | IQDM Series 1 Cable (replacement) .....  |        |     | 1    |             |
| 57   | 101928701 | Liquid Gasket (transaxle case) .....   | 1      | 1   | 1    |             |
| 58   | 102243402 | Moly-Teflon Lubricant (4-oz. (113-gram) tube) .....  |        |     | 1    |             |
| 59   | 101997201 | Paint, Touch-Up – Beige* .....   |        | 1   | 1    |             |
| 59   | 101997207 | Paint, Touch-Up – Black* .....   |        | 1   | 1    |             |
| 59   | 101997212 | Paint, Touch-Up – Burgundy* .....  |        | 1   | 1    |             |
| 59   | 101997211 | Paint, Touch-Up – Classic Blue (Navy)* .....   |        | 1   | 1    |             |
| 59   | 101997205 | Paint, Touch-Up – Dark Gray* .....   | 1      | 1   | 1    |             |
| 59   | 101997209 | Paint, Touch-Up – Dark Green* .....  | 1      | 1   | 1    |             |
| 59   | 101997204 | Paint, Touch-Up – Gray* .....  | 1      | 1   | 1    |             |
| 59   | 101997203 | Paint, Touch-Up – Red* .....   | 1      | 1   | 1    |             |
| 59   | 101997206 | Paint, Touch-Up – Royal Blue (Pacific Blue)* .....   |        | 1   | 1    |             |
| 59   | 101997202 | Paint, Touch-Up – White* .....   | 1      | 1   | 1    |             |
| 60   | 102562301 | Paint, Precedent Underbody – Gray .....  |        | 1   | 1    |             |
| 61   | 102587201 | Paint Pen, Touch-Up, Precedent Underbody – Black .....   |        | 1   | 1    |             |

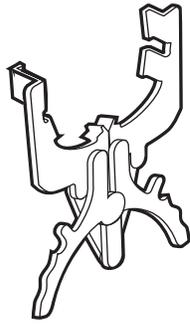
Please refer to the maintenance and service manual for proper tool application.

\* Item 59 is not for use on Surlyn® body material, which is used on Precedent vehicles.

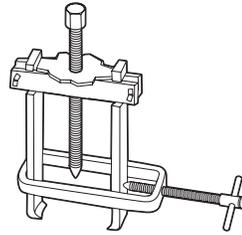
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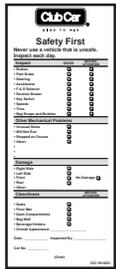
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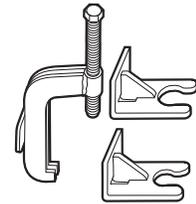
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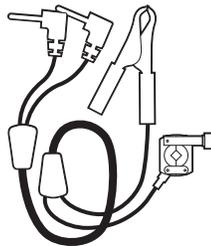
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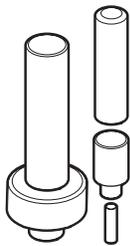
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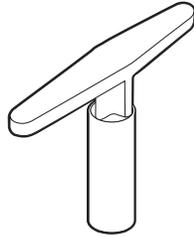
# MAINTENANCE AND SERVICE TOOLS, CONTINUED

| ITEM | PART NO.  | DESCRIPTION   | QTY    | QTY | QTY  | 16 |
|------|-----------|---|--------|-----|------|----|
|      |           |   | DIESEL | GAS | ELEC |    |
|      |           | 1 2 3 4   |        |     |      | G  |
| 62   | 1016414   | Piston Ring Compressor Kit (FE290, FE350 and FE400 engines) .   |        | 1   |      | E  |
| 63   | 1016415   | Piston Ring Pliers (for Kawasaki Engines) .....   |        | 1   |      | D  |
| 64   | 102668801 | Puller, Special Use (for Kubota D722 Diesel Engines) .....  | 1      |     |      |    |
| 65   | 1012549   | Retaining Ring Pliers, 45° External .....   | 1      | 1   | 1    |    |
| 66   | 1012560   | Retaining Ring Pliers, 90° Internal .....   | 1      | 1   | 1    |    |
| 67   | 101823101 | Safety First Card (50 per pack) .....   | 1      | 1   | 1    |    |
| 68   | 1012809   | Seal Puller .....   | 1      | 1   | 1    |    |
| 69   | 102330901 | Spanner Wrench (for coil over shock front suspension vehicles only) .....   | 1      | 1   |      |    |
| 70   | 1014264   | Steering Column Bearing Press Tool .....  |        | 1   | 1    |    |
| 71   | 1014259   | Steering Column Retaining Ring Tool .....   |        | 1   | 1    |    |
| 72   | 102061201 | Steering Wheel Puller Tool .....  | 1      | 1   | 1    |    |
| 73   | AM10753   | Tachometer (includes gasoline engine pick up lead only) .....   | 1      | 1   |      |    |
| 74   | AM10771   | Tachometer Diesel Probe (for use with item 73) .....  | 1      |     |      |    |
| 75   | 1014162   | Transaxle Axle Seal Tool .....  |        | 1   |      |    |
| 76   | 1014161   | Transaxle Pinion Seal Tool .....  |        | 1   |      |    |
| 77   | 1014115   | Transmission Tool Kit .....   |        | 1   |      |    |
| 78   | 101611003 | Tune-Up Kit, All OHV (for FE290, FE350, FE400 only) (includes air filter, spark plug, oil filter, fuel filters) (not shown) .....   |        |     | 1    |    |
| 79   | AM11804   | Tune-Up Kit, Gx620 (for Honda Engines) (includes air filter, spark plug, oil filter, fuel filters) (not shown) .....                |        |     | 1    |    |
| 80   | AM11805   | Tune-Up Kit, D722 (for Kubota Engines) (includes air filter, oil filter, fuel filters, water separator filter) (not shown) .....    | 1      |     |      |    |
| 81   | AM1220301 | Tune-Up Kit, Precedent (for FE290/350 Engines) (includes air filter, spark plug, oil filter, fuel filters) (not shown) .....        |        |     | 1    |    |
| 82   | AM1232401 | Tune-Up Kit, FH680D (for Kawasaki V-Twin Engines) (includes oil filter, fuel filter, air filter, and spark plugs) (not shown) ..... |        |     | 1    |    |
| 83   | 1016413   | Valve Clearance Adjuster Screw Holder (for FE290 engines only) .  |        |     | 1    |    |
| 84   | 102674601 | Valve Guide Driver (for Honda GX620 Gasoline Engines) .....   |        |     | 1    |    |
| 85   | 101641201 | Valve Guide Reamer (FE290, FE350, and FE400 only) .....   |        |     | 1    |    |
| 86   | 102674401 | Valve Guide Reamer, 6.6 mm (for Honda GX620 Gasoline Engines) .....   |        |     | 1    |    |

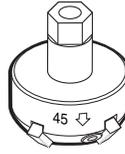
**16**  
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**D**



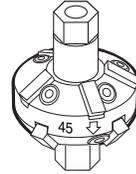
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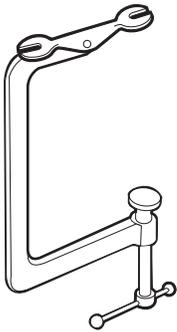
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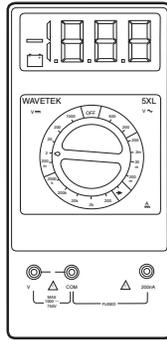
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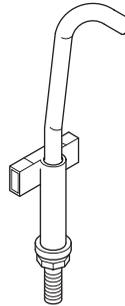
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# MAINTENANCE AND SERVICE TOOLS, CONTINUED

| ITEM | PART NO.  | DESCRIPTION  | QTY<br>DIESEL | QTY<br>GAS | QTY<br>ELEC |
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| 87   | 1016552   | Valve Seat Cutter Guide .....                                      |               | 1          |             |
| 88   | 1016551   | Valve Seat Cutter T-Wrench .....                                   |               | 1          |             |
| 89   | 1016553   | Valve Seat Cutter, 45° (32 mm diameter) (for FE290 engines only)   |               | 1          |             |
| 90   | 1016554   | Valve Seat Cutter, 45°/30° (35 mm diameter) .....                  |               | 1          |             |
| 91   | 101641101 | Valve Spring Compressor .....                                      |               | 1          |             |
| 92   | 1011480   | Volt Ohm Meter .....   | 1             | 1          | 1           |
| 93   | 102570401 | Tool, Tensioning, Starter Generator (For Precedent vehicles) ..... |               | 1          |             |

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