



# Parts Manual

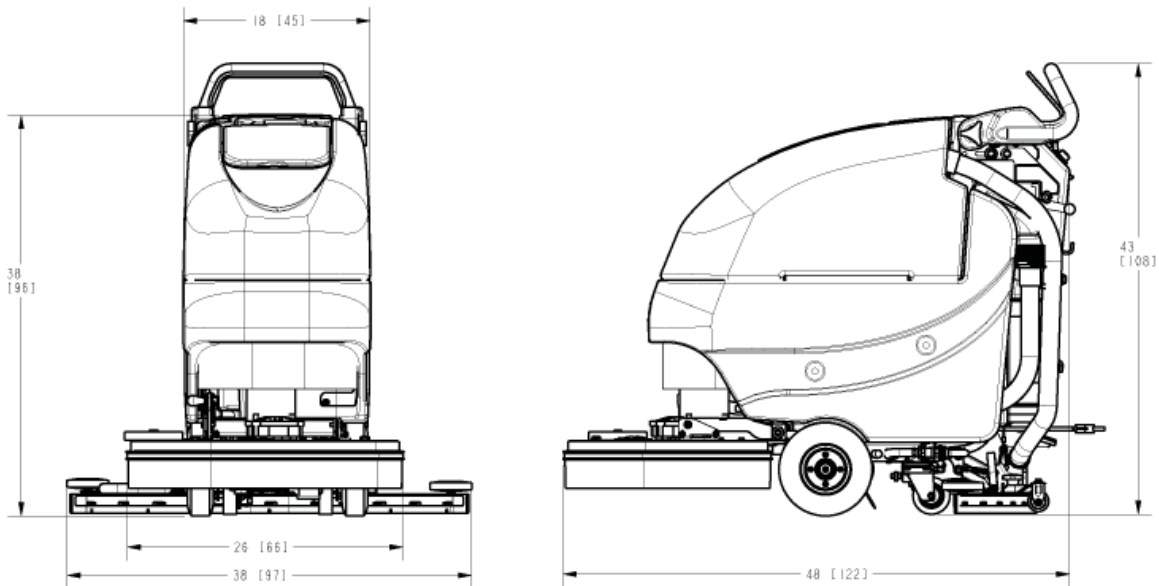
## E26/H26 ECO Floor Scrubber

### Traction Drive Disc

## Model E26ECO Traction Drive Disc

Model No. E26ECO / E26ECOQP / E26ECOQPG / E26ECOQPT  
H26ECO / H26ECOQP / H26ECOQPG / H26ECOQPT

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Current (Max)                | 40 amps                                              |
| Battery Capacity (Lead Acid) | 140Ah @20 hr                                         |
| Battery Capacity (AGM)       | 100Ah @20 hr                                         |
| Sound Level                  | 69 dBA                                               |
| Cleaning path width          | 26 in (65 cm)                                        |
| Squeegee width               | 38 in (95 cm)                                        |
| Productivity                 | 30,810 ft <sup>2</sup> /hr (2830 m <sup>2</sup> /hr) |
| Working Speed                | 2.7 mph (4.3 km per hr)                              |
| Transport Speed              | 2.7 mph (4.3 km per hr)                              |
| Rated voltage                | 24 volts                                             |
| Vacuum flow                  | 65 cfm (110 m <sup>3</sup> /hr)                      |
| Vacuum waterlift             | 45 inches ( 112mbar)                                 |
| Vacuum power                 | .60 HP (450 W)                                       |
| Brush type                   | Disc                                                 |
| Brush motor(s) power         | 3/4 HP (550W)                                        |
| Number of brushes            | 2                                                    |
| Brush RPM                    | 180 RPM                                              |
| Solution capacity            | 12Gal (45 liters)                                    |
| Recovery capacity            | 13 Gal (49 liters)                                   |
| Working Grade                | 2%                                                   |
| Weight with batteries        | 370lbs (168 kg)                                      |
| Weight without batteries     | 235 lbs (107 kg)                                     |
| Dimensions (LxWxH)           | 48 x 26.0 x 38.0 (112.8 x 47.8 x 107.4 cm)           |
| Drive Motor Power            | 1/5 HP (150W)                                        |

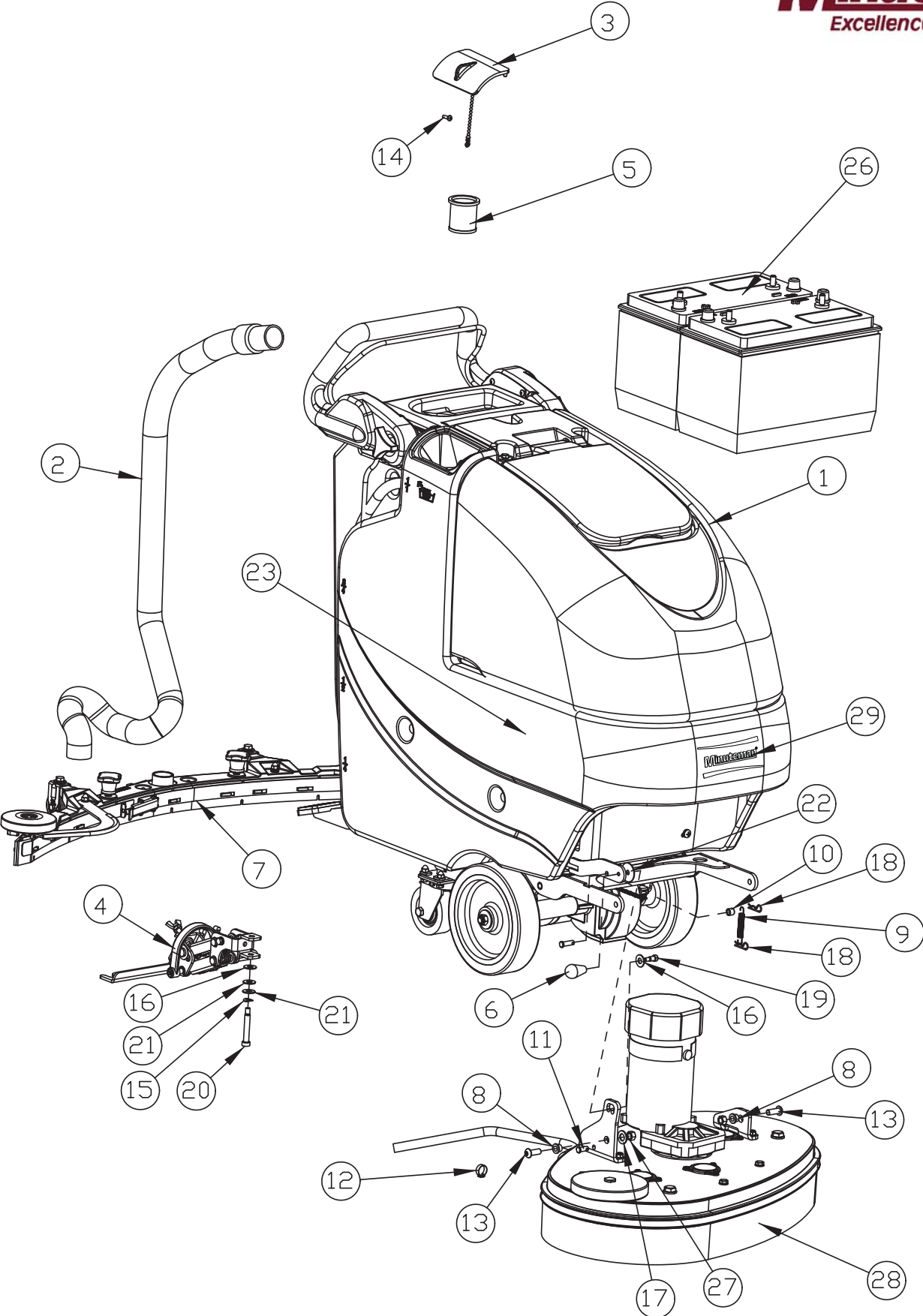


### For Safety When Servicing or Maintaining Machine

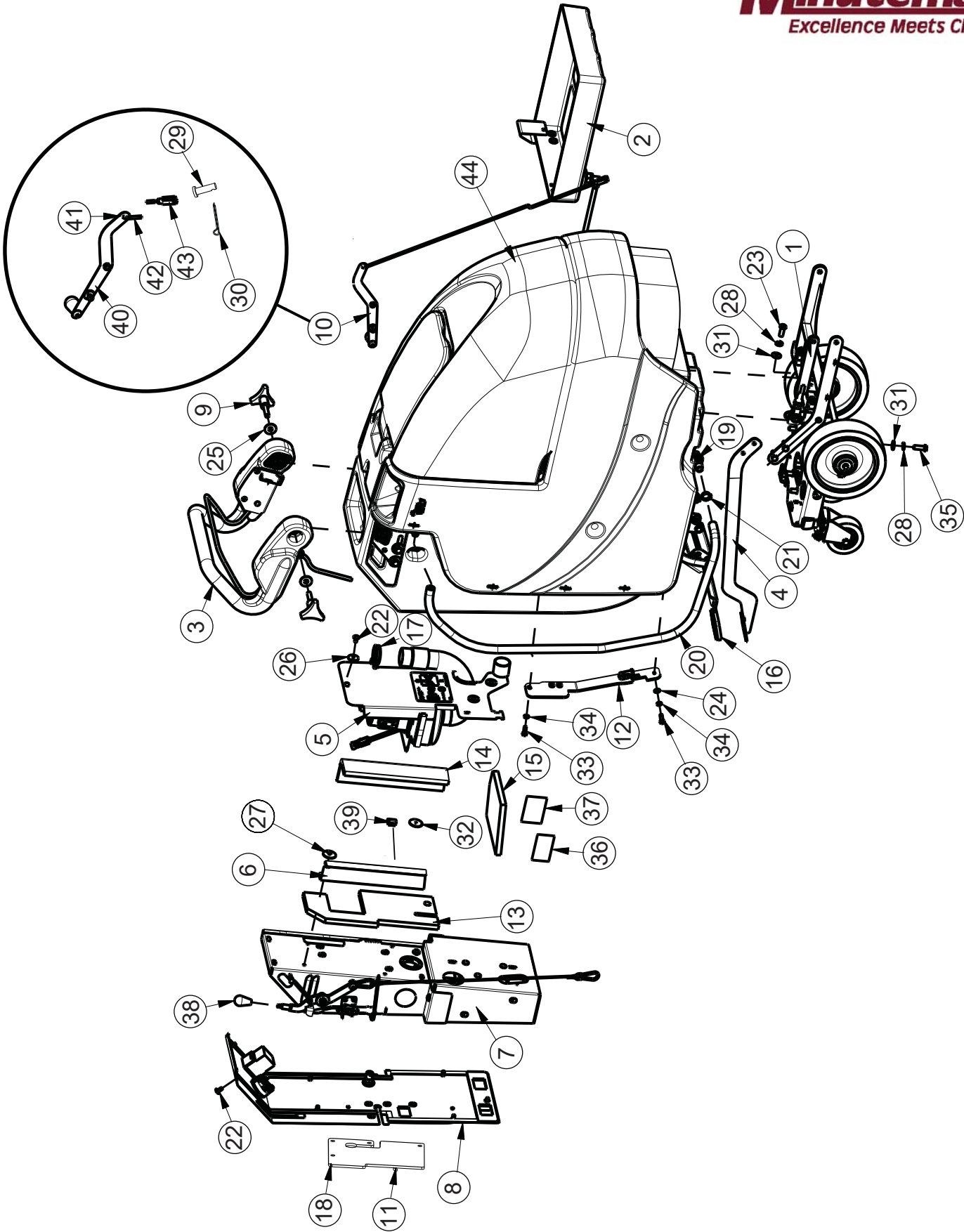
- Stop on level surface.
- Disconnect the power to the machine by pulling the red Battery Connector located under the recovery tank near the batteries.
- Avoid moving parts. Do not wear loose jackets, shirts, or sleeves when working on machine.
- Avoid contact with battery acid. Battery acid can cause burns. When working on or around batteries, wear protective clothing and safety glasses. Remove metal jewelry. Do not lay tools or metal objects on top of batteries.
- Do not clean machine with a pressure washer.
- Authorized personnel must perform repairs and maintenance. Use Carolina Industrial Equipment supplied replacement parts.

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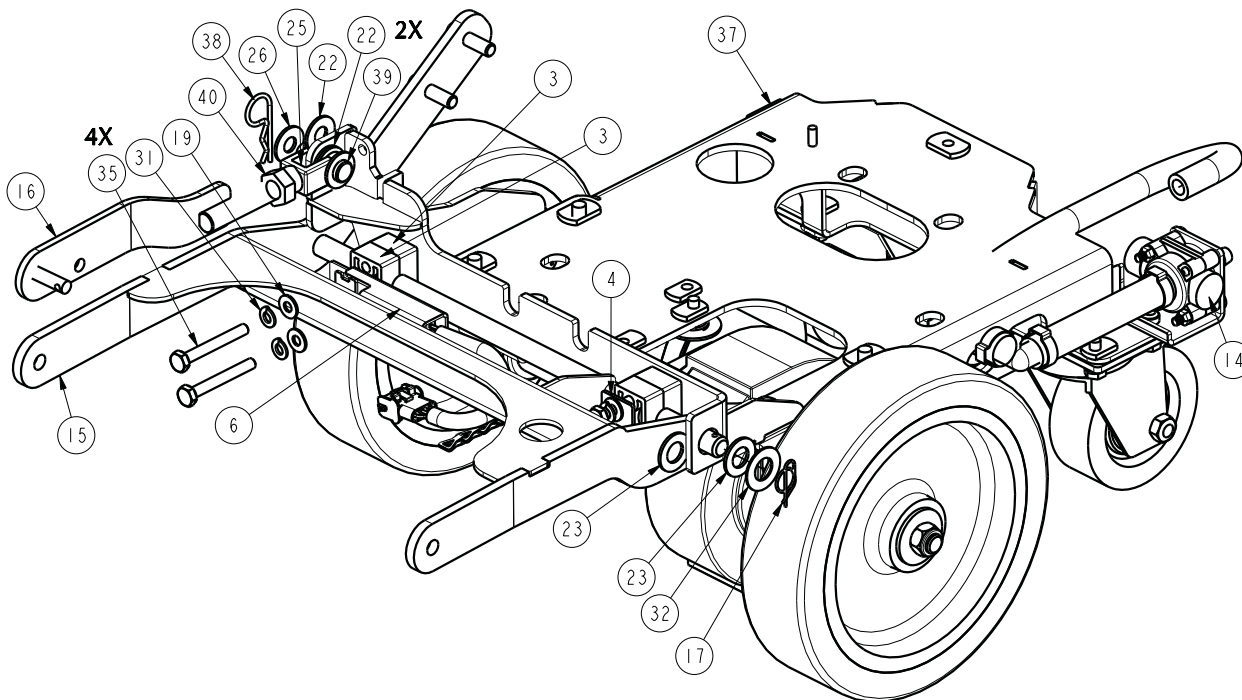
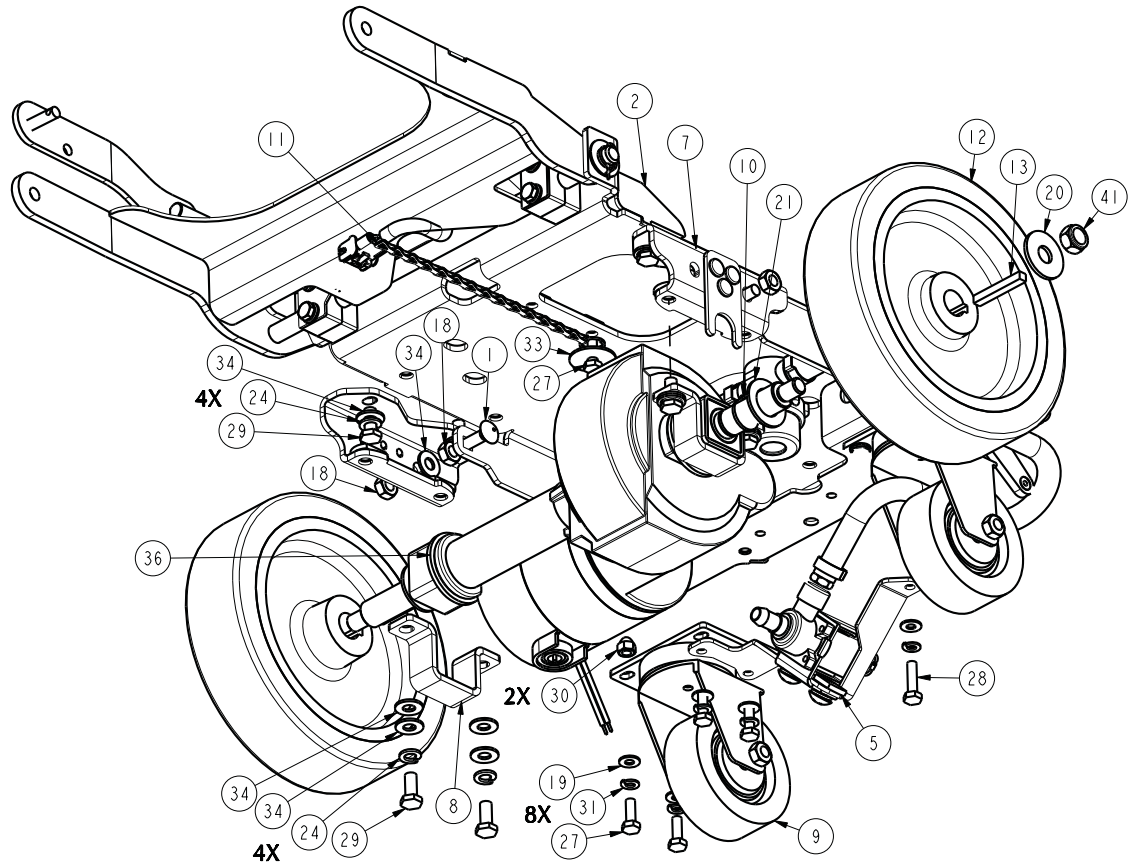
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| BILL OF MATERIAL |           |       |                                 |                     |
|------------------|-----------|-------|---------------------------------|---------------------|
| ITEM             | PART NO.  | REQ'D | DESCRIPTION                     | NOTES               |
| 1                | 171001-26 | 1     | BASE ASM                        |                     |
| 2                | 172010    | 1     | HOSE, CLEAR VAC W/ 90 CUFF      |                     |
| 3                | 172018    | 1     | SOLUTION TANK LID ASSY          |                     |
| 4                | 172150    | 1     | SQUEEGEE LIFT MECH ASSY         |                     |
| 5                | 172159    | 1     | FILTER, FILL PORT , ES1720      |                     |
| 6                | 172423    | 1     | KNOB, TAPERED 1/4-20            |                     |
| 7                | 172538    | 1     | 38" SQUEEGEE ASM, E26ECO        |                     |
| 8                | 260066    | 2     | OILITE BUSHING                  |                     |
| 9                | 281047    | 1     | SPRING, EXTENSION - 2.75"       |                     |
| 10               | 370058    | 1     | BUSHING, .31 X .48X.385 SS      |                     |
| 11               | 450034    | 1     | CLEVIS PIN, 5/16 X .75 LG       |                     |
| 12               | 450076    | 1     | CLAMP-CRIMP 185R SS             |                     |
| 13               | 710995    | 2     | SCR-SC 3/8-24 X 1.0 BHEAD ST PL |                     |
| 14               | 711118    | 1     | SCR-ST-A 10 X .75 SS            |                     |
| 15               | 711523    | 1     | WSR-WAVE .37X .68 X .08         |                     |
| 16               | 711569    | 2     | WSR-FLT .390 X .880 X .062 NYL  |                     |
| 17               | 711592    | 1     | WSR-FLAT .506 X .9 X .064 NYL   |                     |
| 18               | 711808    | 2     | COTTER PIN-HAIR #13             |                     |
| 19               | 712041    | 1     | BLT- SHLDR .31 X .375 X 1/4-20  |                     |
| 20               | 712143    | 1     | BLT-SHLD 3/8 X 2.0, 5/16-18     |                     |
| 21               | 712301    | 2     | WSR-FLAT .37 X .87 X .06        |                     |
| 22               | 712759    | 1     | WSR- FLT .31 X 1.37 X .06 SS    |                     |
| 23               | 715921    | 2     | DECAL, E26ECO                   | NOT SHOWN           |
| 23H              | 715921HSP | 2     | DECAL, H26ECO                   | NOT SHOWN           |
| 24               | 740164-1  | 1     | JUMPER CABLE ASSY, RED 4G 12"   | NOT SHOWN           |
| 25               | 747649    | 1     | CABLE ASSY, BAT T ERY E17       | NOT SHOWN           |
| 26               | 956140    | 2     | BATTERY, 12V 140AH              |                     |
| 26G              | 956100    | 2     | BATTERY-AGM 12V 100AH           |                     |
| 26T              | 956753    | 2     | BATTERY WET 12V 130AH TROJAN    |                     |
| 27               | 3400067   | 2     | NUT-HEX 3/8-24 ZP               |                     |
| 28               | 99711100  | 1     | 26ECO DISC BRUSH DECK           |                     |
| 29               | 715914W   | 1     | DECAL, MINUTEMAN                |                     |
| 30               | 172008    | 1     | SOLUTION TANK LID               | COMPONENT OF ITEM 3 |
| 31               | 172123    | 1     | CHAIN, BEADED SS W/EYELET S     | COMPONENT OF ITEM 3 |
| 32               | 712145    | 1     | SCR-MC 6-32 X .37 PPH SS        | COMPONENT OF ITEM 3 |

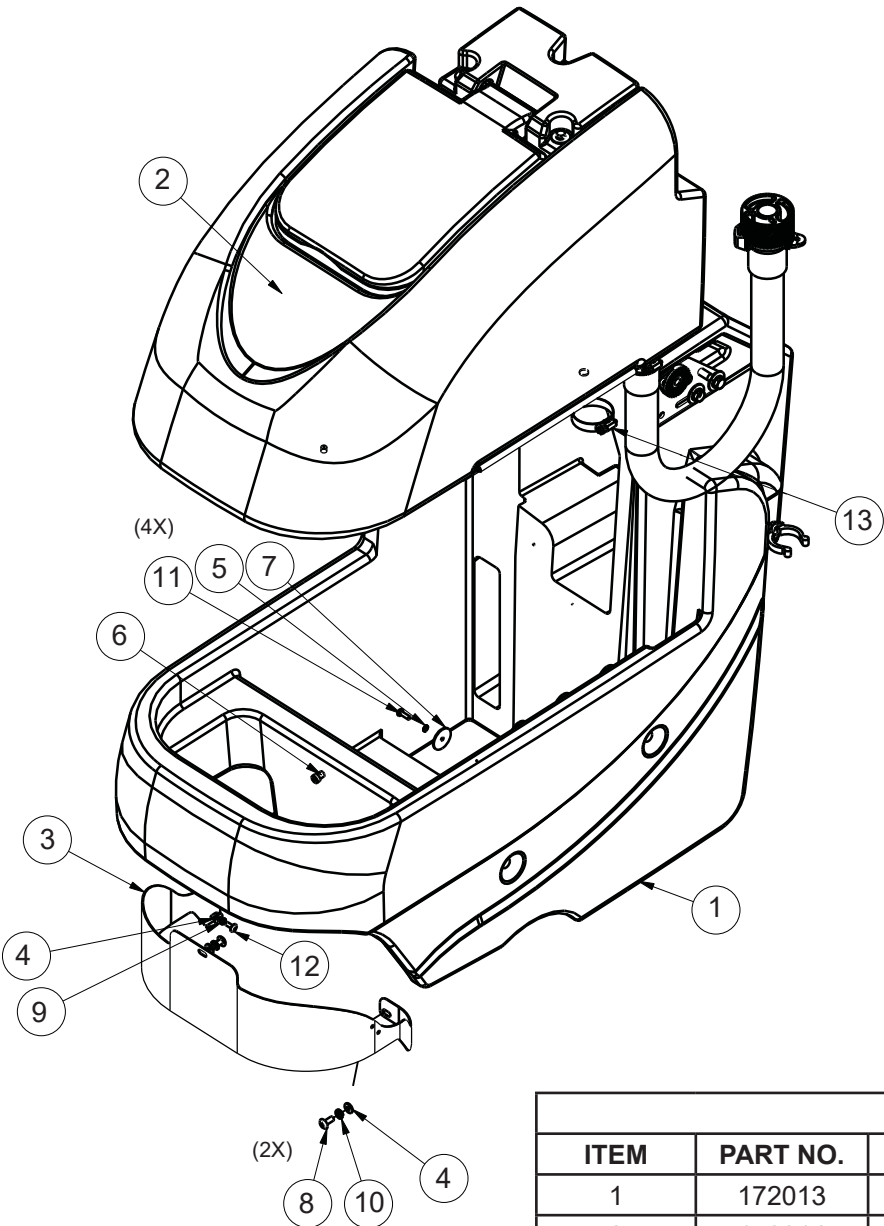


| BILL OF MATERIAL |            |     |                                |      |            |     |                                |
|------------------|------------|-----|--------------------------------|------|------------|-----|--------------------------------|
| ITEM             | PART NO.   | QTY | DESCRIPTION                    | ITEM | PART NO.   | QTY | DESCRIPTION                    |
| 1                | 172409     | 1   | CHASSIS ASM, E26ECO            | 23   | 710985     | 2   | SCR-SC 3/8-16 X .62 ST PL      |
| 2                | 172012     | 1   | BATTERY TRAY ASSY              | 24   | 711504     | 2   | WSR-FLAT 1/4 ID SS             |
| 3                | 172015-26  | 1   | HANDLE ASSEMBLY, E26ECO        | 25   | 711507     | 2   | WSR-FLAT .37 X 1.12 X .06      |
| 4                | 172032     | 1   | LIFT PEDAL WMT                 | 26   | 711519     | 3   | WSR- FLAT .25 X 1.01 X .06     |
| 5                | 171022     | 1   | VACUUM MOTOR ASSEMBLY          | 27   | 711543     | 1   | WSR-HELICAL #10                |
| 6                | 172055     | 1   | BKT, VAC AREA INSIDE COVER     | 28   | 711546     | 6   | WSR-HELICAL 3/8                |
| 7                | 171020-ECO | 1   | ELEC BOX ASSY - ECO            | 29   | 711803     | 1   | COTTER PIN-HAIR                |
| 8                | 172079     | 1   | TD COVER WMT                   | 30   | 712117     | 1   | CLEVIS PIN                     |
| 9                | 172085     | 2   | KNOB, 3/8-16 STUD, 3 LOBE      | 31   | 712301     | 6   | WSR-FLAT .37 X .87 X .06       |
| 10               | 172112     | 1   | SOL CONTROL ASSY               | 32   | 712312     | 2   | WSR-FLAT .187 X 1.25           |
| 11               | 172129     | 1   | BKT, PWR CORD MOUNT            | 33   | 712562     | 2   | BOLT-HH 1/4-20X3/4 SS          |
| 12               | 172032     | 1   | LIFT PEDAL WMT                 | 34   | 712758     | 2   | WSR-HELICAL 1/4 SS             |
| 13               | 172184     | 1   | FOAM COVER, REAR 1             | 35   | 713042     | 4   | BLT-HH 3/8-16 X 1 #5           |
| 14               | 172185     | 1   | FOAM COVER, REAR 2             | 36   | 715029     | 1   | DECAL-NAME PLATE SERIAL        |
| 15               | 172187     | 1   | FOAM COVER, FRONT 2            | 37   | 715047     | 1   | DECAL-CLEAR LAMINATE 2X3       |
| 16               | 210142     | 1   | PEDAL PAD                      | 38   | 760592     | 1   | KNOB, OVAL TAPERED             |
| 17               | 3303255    | 1   | CLAMP-HOSE 1.75 DIA NOM.       | 39   | 809443     | 1   | CLIP-WIRE & CORD               |
| 18               | 293080     | 1   | STRAIN RELIEF-HEYCO 1207       | 40   | 172115     | 1   | SOL CNTRL LEVER ASSY           |
| 19               | 342440     | 1   | FITTING, TEE 3/4MPT 1/2BARB PP | 41   | 172122     | 1   | NUT, PUSH-ON WSR CAP, 3/16     |
| 20               | 430156     | 1   | HOSE, 1/2 X 42 CLEAR           | 42   | 172069     | 1   | ROD, SOL. CTRL, ES1720         |
| 21               | 450093     | 2   | CRIMP CLAMP 3/4" STEP-LESS     | 43   | 172062     | 1   | YOKE, 3/16 CLEVIS, 10-32, LONG |
| 22               | 710178     | 10  | SCR-MC 1/4-20 X .50 TRUSS STPL | 44   | 171010-ECO | 1   | 17/20 ECO ASSY                 |

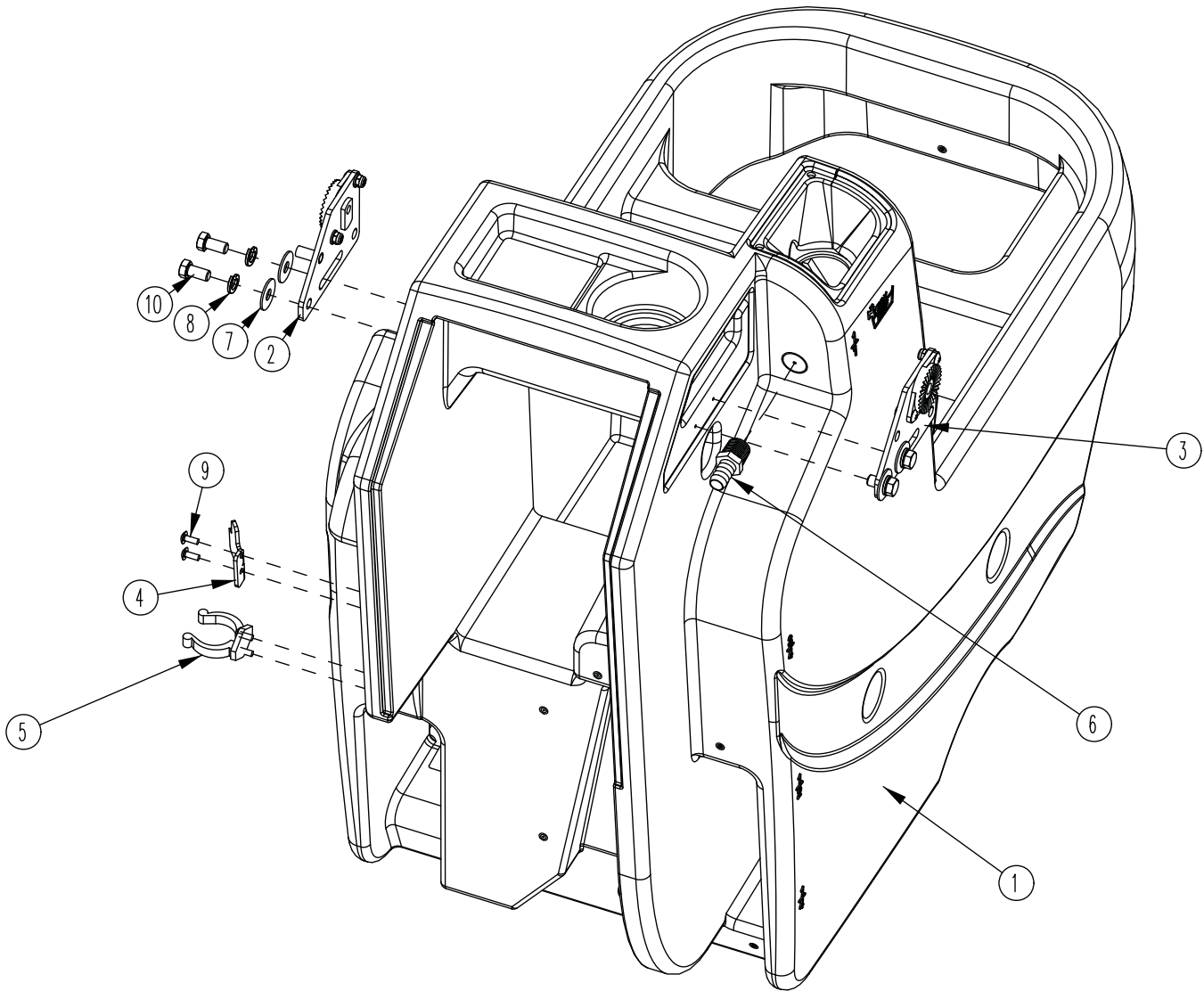


## BILL OF MATERIAL - 172409

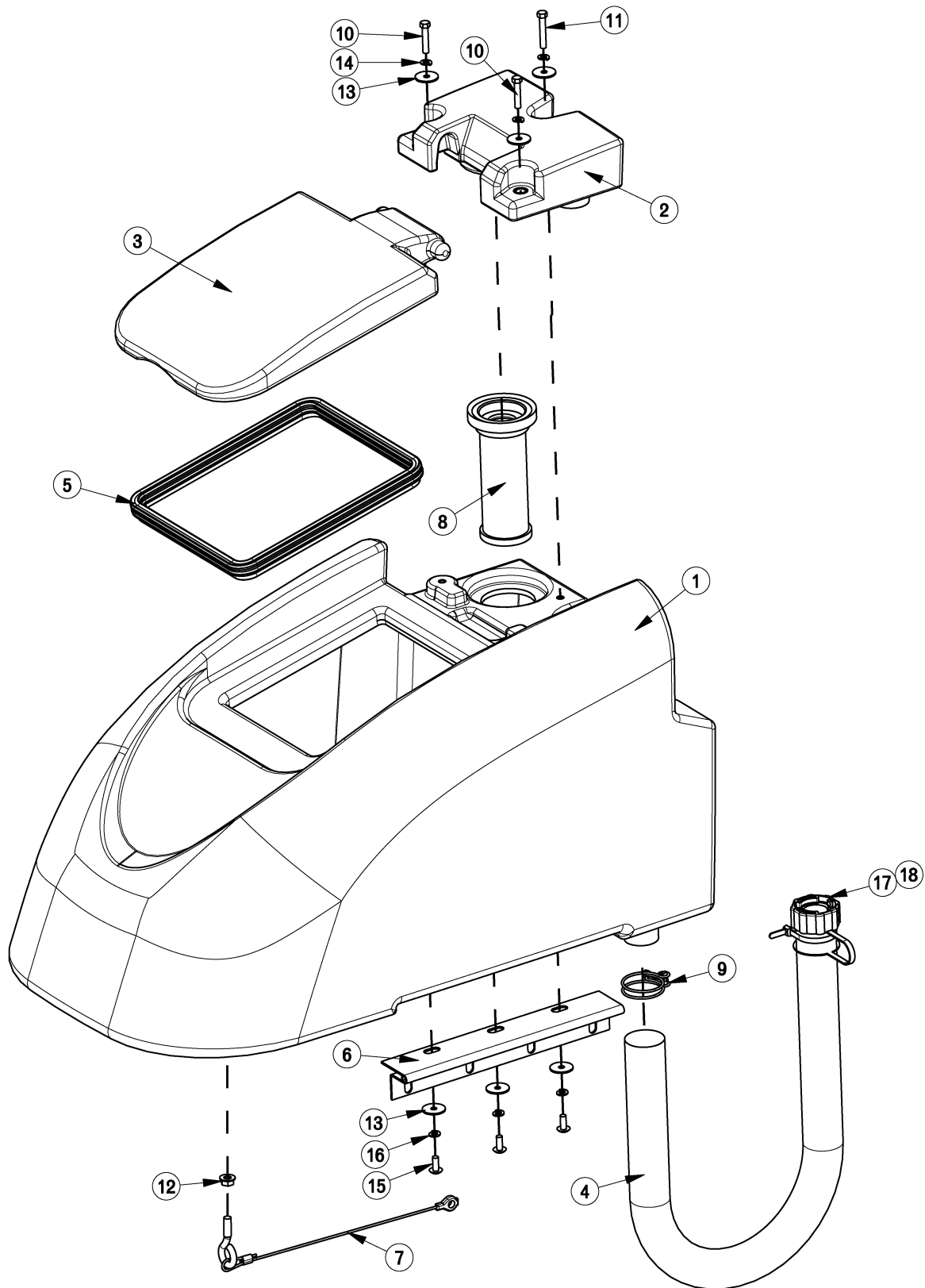
| ITEM | PART #    | QTY | DESCRIPTION                     | ITEM | PART #   | QTY | DESCRIPTION                         |
|------|-----------|-----|---------------------------------|------|----------|-----|-------------------------------------|
| 1    | 70-516-16 | 2   | BLT-CARR 5/16-18 X 1 ZP         | 22   | 711569   | 3   | WASHER-FLAT .390 X .880 X .062 NYL  |
| 2    | 172020    | 1   | E1720 MAIN FRAME WMT            | 23   | 711592   | 2   | WASHER-FLAT 1/2 X .90 X .064 NY-LON |
| 3    | 172038    | 4   | BEARING BLOCK                   | 24   | 712140   | 8   | WASHER-LOCK 5/16 SPLIT SS           |
| 4    | 172039    | 1   | BEARING BLOCK PLATE             | 25   | 712265   | 1   | CLEVIS-YOKE, 1/2-20 WITH .375 PIN   |
| 5    | 172104    | 1   | SOLENOID MOUNT ASSY             | 26   | 712301   | 2   | WASHER-FLAT 3/8 X .87 X .06 ZP      |
| 6    | 172110    | 1   | DECK SWITCH ASSY                | 27   | 712562   | 8   | SCR-HH 1/4-20 X .75, 18-8 SS        |
| 7    | 172113    | 2   | BKT, TRANSAXLE MOUNT BASE       | 28   | 712564   | 1   | SCR-HH 1/4-20 X 1.00 SS             |
| 8    | 172114    | 2   | BKT, TRANSAXLE MOUNT            | 29   | 712575   | 8   | SCR-HH 5/16-18 X .75 18-8 SS        |
| 9    | 172167    | 2   | CASTER, 3 1/2" PU WHEEL         | 30   | 712591   | 2   | NUT-ACORN 1/4-20 SS                 |
| 10   | 172425    | 2   | RING-RET EXT .75/20mm HD        | 31   | 712758   | 12  | WASHER-LOCK 1/4 SPLIT SS            |
| 11   | 172516    | 1   | DRAG CHAIN, SS, 8" W/ RING      | 32   | 712760   | 1   | WASHER-FLAT .56 X 1.06 X .04 SS     |
| 12   | 172518    | 2   | WHEEL, 8X2 PU GROOVED           | 33   | 712761   | 1   | WASHER-FENDER 1/4 X 1.25 X .059 SS  |
| 13   | 172519    | 2   | KEY-SQUARE 6MM X 45MM           | 34   | 712772   | 14  | WASHER-FLAT .344 X .75 X .06 SS     |
| 14   | 172571    | 1   | ASSY-SOLUTION VALVE E1720       | 35   | 713007   | 4   | SCR-HH 1/4-20 X 2.00 ZP GR 5        |
| 15   | 245700    | 1   | WELDMENT, SH LIFT ARM, 2 DEGREE | 36   | 747606   | 1   | TRANSAXLE, E1720 24V                |
| 16   | 245703    | 1   | WELDMENT, UPPER ARM             | 37   | 809444   | 1   | CLIP-CORD                           |
| 17   | 600578    | 1   | RING-RUE .50 ZP                 | 38   | 833374   | 1   | PIN-HAIRPIN COTTER 3/8              |
| 18   | 711383    | 4   | NUT-HEX 5/16-18 ZP REVERSE LOC  | 39   | 833833   | 1   | PIN-CLEVIS 3/8 X 1.25               |
| 19   | 711504    | 12  | WASHER-FLAT 1/4 SS              | 40   | 3400449  | 1   | NUT-JAM 1/2-20 ZP                   |
| 20   | 711510    | 2   | WASHER-FLAT 1/2 X 1.37 X .10 ZP | 41   | 12040077 | 2   | NUT-NYLOC M12 X 1.75 ZD CLASS 8     |
| 21   | 711512    | 2   | WASHER-FLAT 3/4 X 1.37 X .08 ZP |      |          |     |                                     |



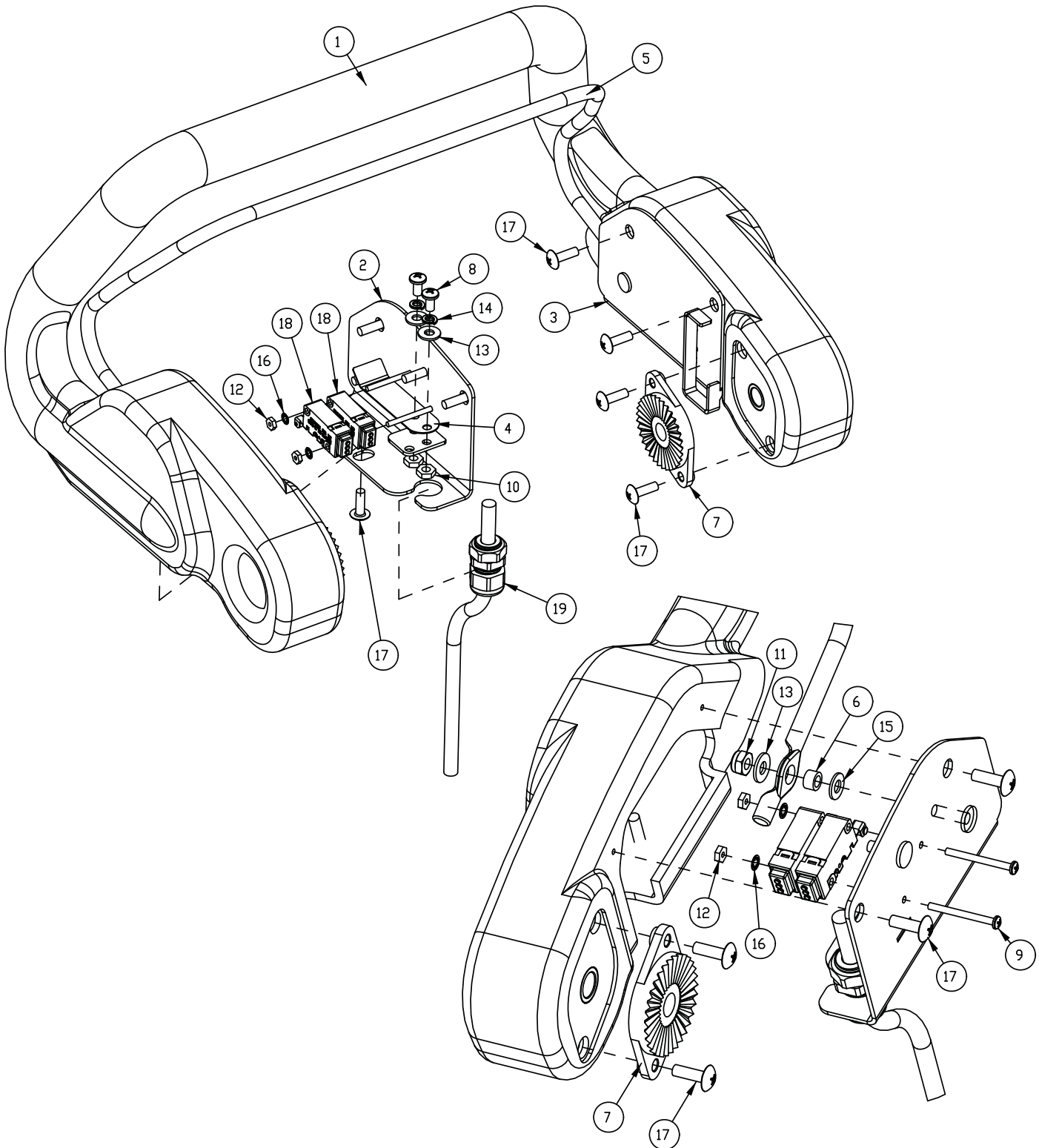
| BILL OF MATERIAL |           |     |                               |
|------------------|-----------|-----|-------------------------------|
| ITEM             | PART NO.  | QTY | DESCRIPTION                   |
| 1                | 172013    | 1   | SOL TANK ASSY, E1720          |
| 2                | 172014    | 1   | REC TANK ASSY                 |
| 2H               | 172014HSP |     | REC TANK ASSY-HSP VERSION     |
| 3                | 172144    | 1   | PANEL, FRONT 1720             |
| 4                | 711504    | 3   | WSR-FLAT 1/4 ID SS            |
| 5                | 711543    | 4   | WSR-HELICAL #10               |
| 6                | 712041    | 1   | BLT- SHLDR 1/4-20 X .44 X .37 |
| 7                | 712312    | 4   | WSR-FLAT .187 X 1.25          |
| 8                | 712565    | 2   | SCR-MC 1/4-20X.63 SS TR HD    |
| 9                | 712757    | 1   | WSR - HELICAL #10 SS          |
| 10               | 712758    | 2   | WSR-HELICAL 1/4 SS            |
| 11               | 712812    | 4   | SCR-MC 10-24 X .62 PPH ST PL  |
| 12               | 712822    | 1   | SCR-MC TR HD 10-24 X .50 SS   |
| 13               | 3303255   | 1   | CLAMP-HOSE 1.75 DIA NOMINAL   |


**BILL OF MATERIAL - 172013**

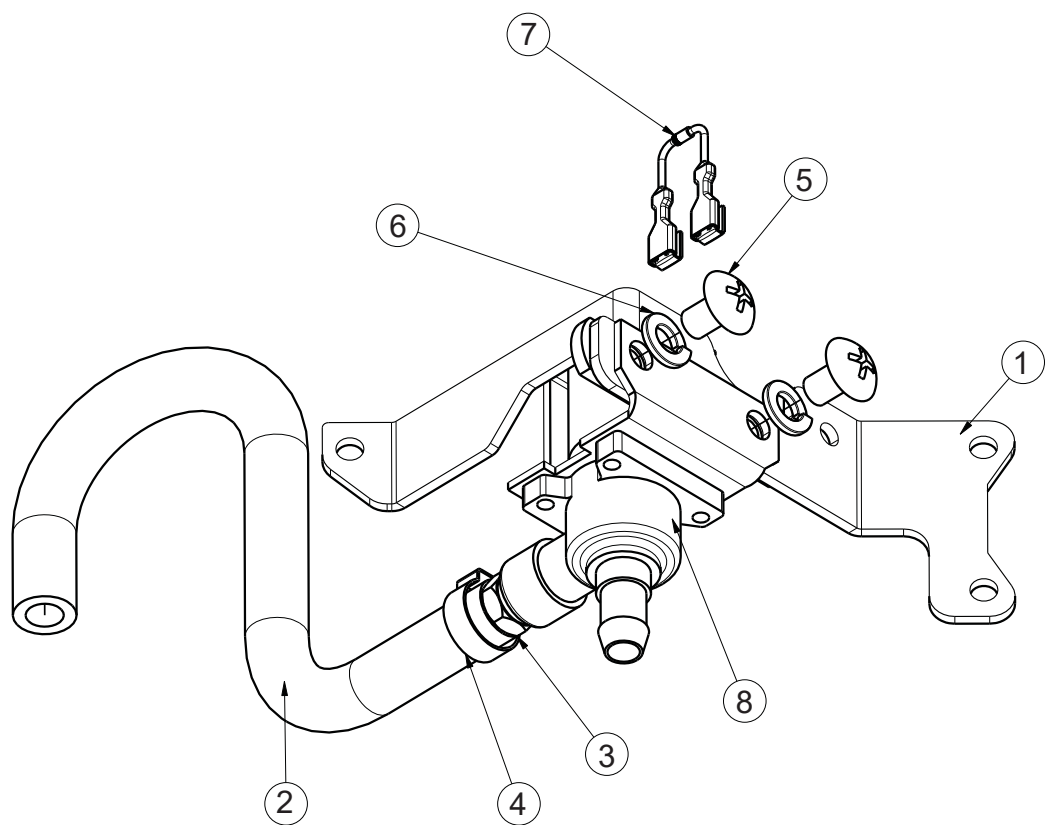
| ITEM | PART NO. | REQ'D | DESCRIPTION                        |
|------|----------|-------|------------------------------------|
| 1    | 172003   | 1     | SOLUTION TANK                      |
| 2    | 172080   | 1     | HANDLE MOUNT ASSY , LEFT           |
| 3    | 172082   | 1     | HANDLE MOUNT ASSY , RIGHT          |
| 4    | 172341   | 1     | HOOK , DRAIN HOSE WITH TWIST VALVE |
| 5    | 260579   | 1     | TOOL CLIP , 1.5" HOSE              |
| 6    | 342438   | 1     | FITTING , 1/2 MPT 1/2 HB BRASS     |
| 7    | 711507   | 4     | WASHER-FLAT 3/8 X 1.12 X .06       |
| 8    | 711546   | 4     | WSR-HELICAL 3/8                    |
| 9    | 712822   | 4     | SCR-MC TR HD 10-24 X .50 SS        |
| 10   | 713041   | 4     | BLT-HH 3/8 -16 X 3/4 #5            |



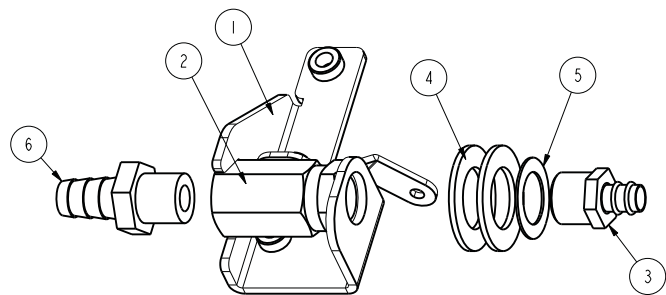
| BILL OF MATERIAL - 172014 |           |       |                                |                        |
|---------------------------|-----------|-------|--------------------------------|------------------------|
| ITEM                      | PART NO.  | REQ'D | DESCRIPTION                    | NOTES                  |
| 1                         | 172004    | 1     | RECOVERY TANK                  |                        |
| 1H                        | 172004HSP |       | RECOVERY TANK-HSP VERSION      |                        |
| 2                         | 172005    | 1     | VACUUM MANIFOLD                |                        |
| 2H                        | 172005HSP |       | VACUUM MANIFOLD-HSP VERSION    |                        |
| 3                         | 172007    | 1     | LID                            |                        |
| 4                         | 97090096  | 1     | DRAIN HOSE ASSY, RECOVERY TANK | INCLUDES ITEMS 17 & 18 |
| 5                         | 172017    | 1     | GASKET, LID                    |                        |
| 6                         | 172049    | 1     | HINGE, RECOVERY TANK           |                        |
| 7                         | 172394    | 1     | REC TANK CABLE ASSY 11.625     |                        |
| 8                         | 172132    | 1     | SCREENED FLOAT                 |                        |
| 9                         | 3303255   | 1     | CLAMP-HOSE 1.75 DIA NOMINAL    |                        |
| 10                        | 711210    | 2     | BLT-HH 1/4-20 X 1.25 STPL      |                        |
| 11                        | 711212    | 1     | BLT-HH 1/4-20 X 1.50 STPL      |                        |
| 12                        | 711379    | 1     | NUT, FLANGED WIZZ 5/16-18      |                        |
| 13                        | 711519    | 6     | WSR- FLAT .25 X 1.01 X .06     |                        |
| 14                        | 711544    | 3     | WSR-HELICAL 1/4                |                        |
| 15                        | 712565    | 3     | SCR-MC 1/4-20X.63 SS TR HD     |                        |
| 16                        | 712758    | 3     | WSR-HELICAL 1/4 SS             |                        |
| 17                        | 15282072  | 1     | REPLACEMENT O-RING (NOT SHOWN) |                        |
| 18                        | 90304528  | 1     | REPLACEMENT CAP                |                        |



| BILL OF MATERIAL 172015 |          |       |                                     |
|-------------------------|----------|-------|-------------------------------------|
| ITEM                    | PART NO. | REQ'D | DESCRIPTION                         |
| 1                       | 172006   | 1     | ES 1720 HANDLE                      |
| 2                       | 172053   | 1     | BAIL PLATE WMT RH                   |
| 3                       | 172054   | 1     | BAIL PLATE WMT LH                   |
| 4                       | 172057   | 2     | ES 1720 LEAF SPRIN G                |
| 5                       | 172059   | 1     | ES 1720 BAIL , HANDLE               |
| 6                       | 172074   | 2     | SPACER , 5/16 OD X 17 GA, ALUM      |
| 7                       | 270143   | 2     | HAND LE PIVOT JAW                   |
| 8                       | 710353   | 4     | SCR -MCRD HD 10-32 X .37 STL        |
| 9                       | 710495   | 2     | SCR -MC 4-40 X 1.25 STL Z           |
| 10                      | 711310   | 4     | NUT , HEX 1 0 -3 2 ST PL            |
| 11                      | 711350   | 2     | NUT -NYLOC 10-32                    |
| 12                      | 711428   | 2     | NUT -HEX 4-40                       |
| 13                      | 711503   | 6     | WSR , FLAT #10                      |
| 14                      | 711543   | 4     | WSR -HELICAL #10                    |
| 15                      | 712320   | 2     | WSR -NYLON .22 X .45 X .04          |
| 16                      | 712326   | 2     | WSR -INT LOCK # 4                   |
| 17                      | 712830   | 10    | SCR -MC 10 -24 X .62 ST LZ TRHD     |
| 18                      | 747603-3 | 2     | SWITCH ASY, MICROROLLER w /MATENLOK |
| 19                      | 747715-1 | 1     | CABLE ASY, 5 COND 18 GE172 0TD      |



| BILL OF MATERIAL - 172104 |          |     |                                  |
|---------------------------|----------|-----|----------------------------------|
| ITEM                      | PART NO. | QTY | DESCRIPTION                      |
| 1                         | 172105   | 1   | BKT, SOLENOID MOUNT              |
| 2                         | 281637   | 1   | HOSE-WIRE REINF 3/8 X 11"        |
| 3                         | 320264   | 1   | FTG-ADPTR 1/4 MPT X 1/4 HB BRASS |
| 4                         | 450076   | 1   | CLAMP-HOSE 5/8 (.590-.791) SS    |
| 5                         | 710195   | 2   | SCR-PHMS 5/16-18 X .50 ZP        |
| 6                         | 711545   | 2   | WASHER-LOCK 5/16 SPLIT ZP        |
| 7                         | 740482   | 1   | DIODE ASY, 1N4007 W/PIGGY        |
| 8                         | 740493   | 1   | VALVE-WATER 24VDC                |



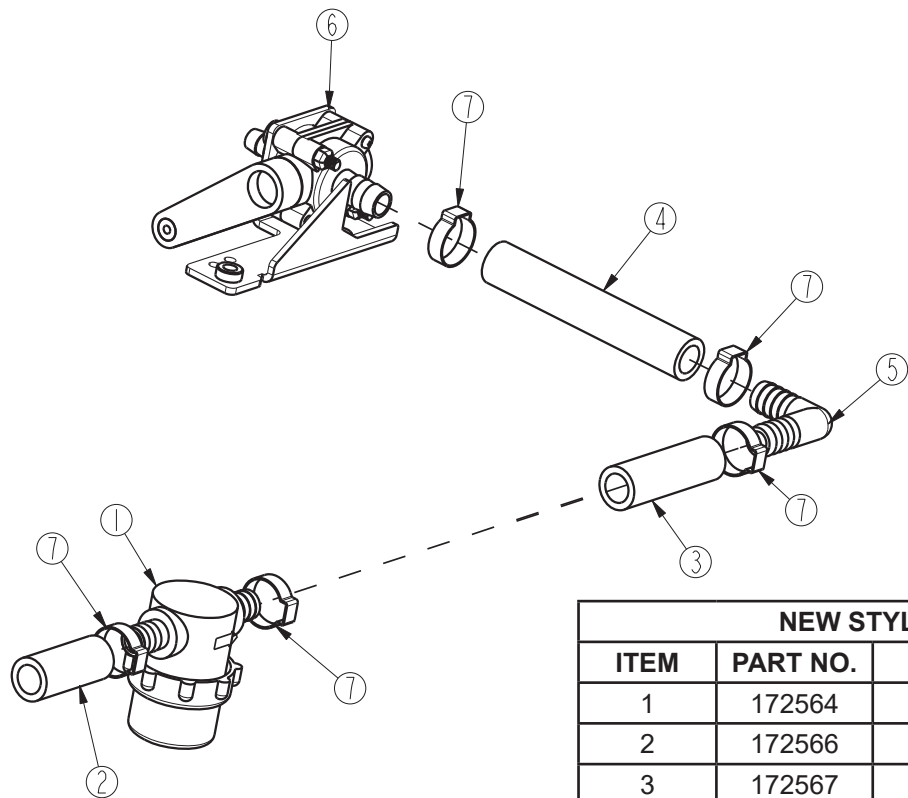
**\*\*\*REPLACING OLD STYLE BRASS SOLUTION VALVE ASSEMBLY 172514 WITH 172571 PLASTIC SOLUTION VALVE ASSEMBLY**

**WILL REQUIRE THE PURCHASE OF KIT K-172571**

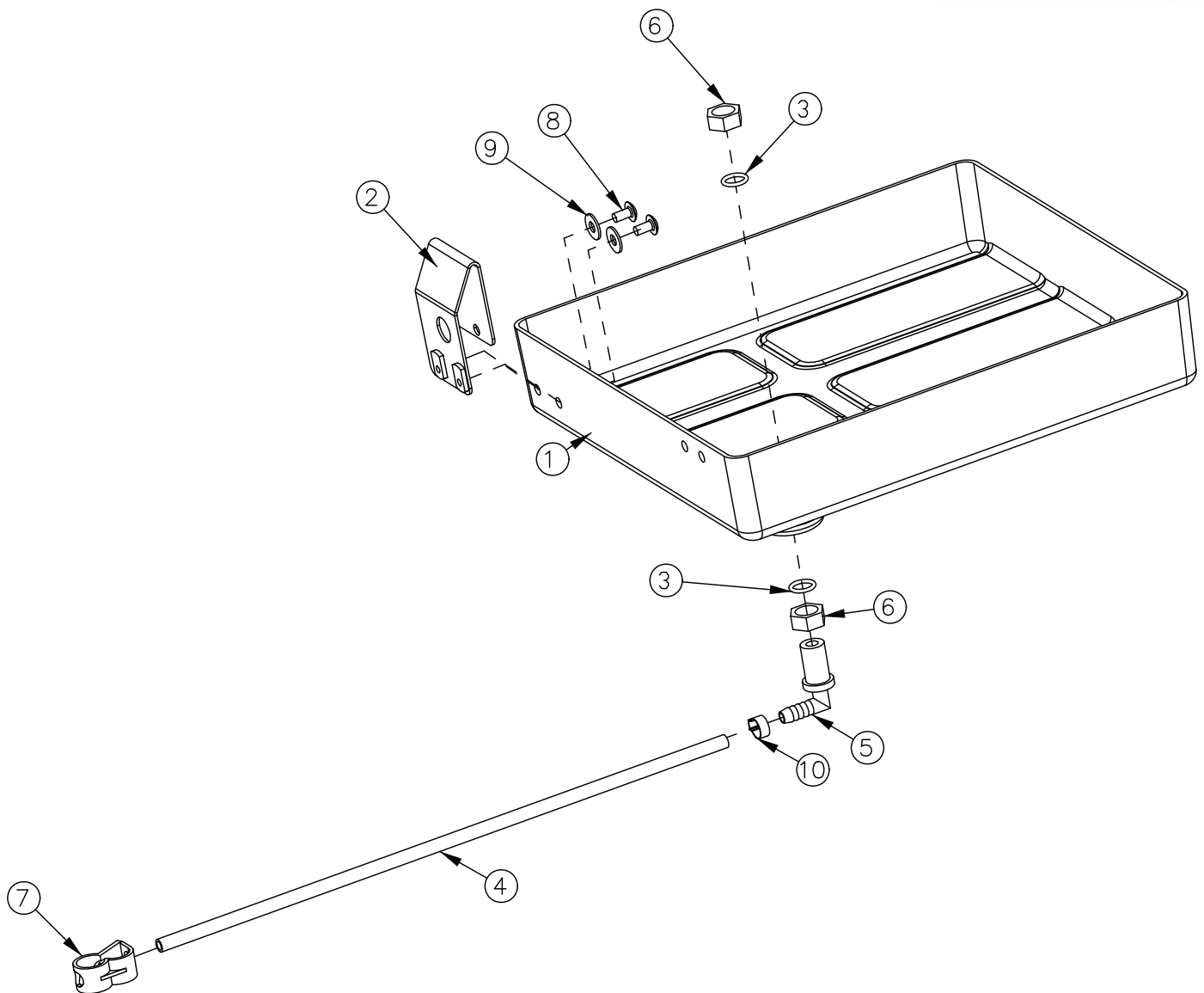
**NO LONGER AVAILABLE**

| OLD STYLE - BILL OF MATERIAL - 172514 |          |     |                                         |
|---------------------------------------|----------|-----|-----------------------------------------|
| ITEM                                  | PART NO. | QTY | DESCRIPTION                             |
| 1                                     | 172513   | 1   | BRKT, SOL VALVE MOUNT                   |
| 2                                     | 172515   | 1   | BALL VALVE, BRASS, 3/8FNPT, CUST HANDLE |
| 3                                     | 320265   | 1   | FTG-ADAPTER 3/8 MPT X 3/8 HB BRASS      |
| 4                                     | 711512   | 2   | WASHER-FLAT 3/4 X 1.37 X .08 ZP         |
| 5                                     | 711513   | 1   | WASHER-FLAT .689 X 1.06 X .029 SS       |
| 6                                     | 827008   | 1   | FTG-ADAPTER 3/8 MPT 1/2 HB BRASS        |

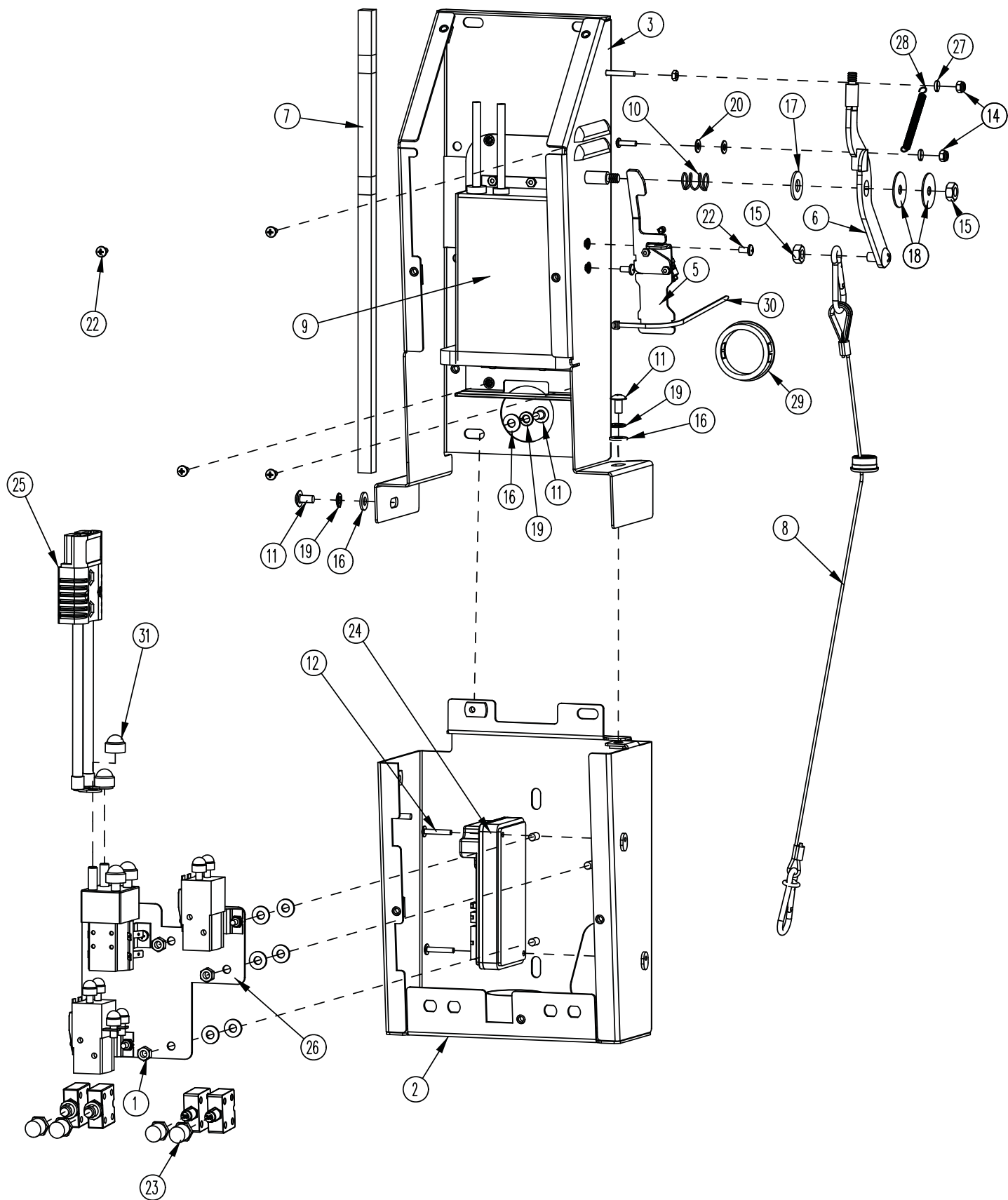
**New Style - Solution Valve Assembly**



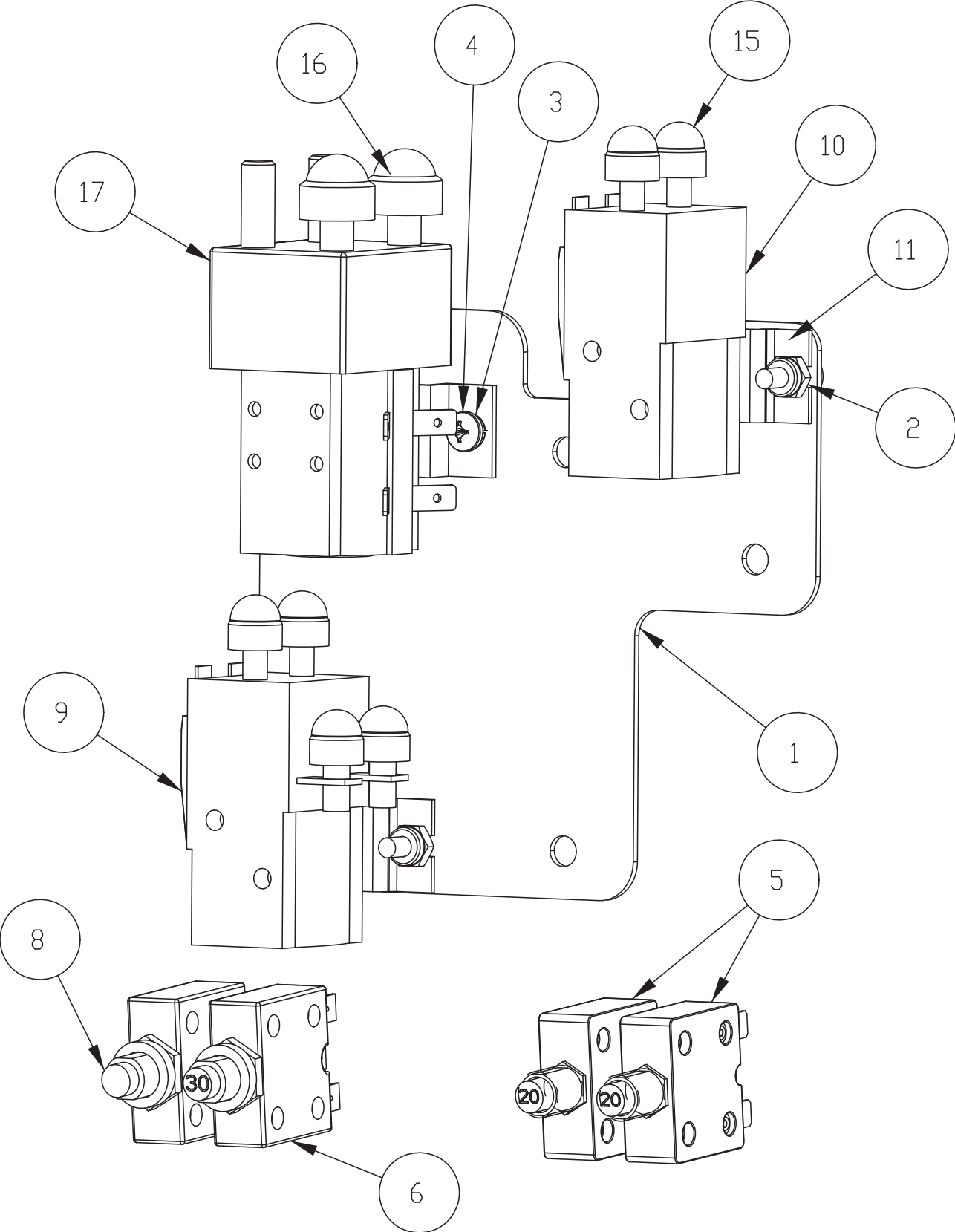
| NEW STYLE - BILL OF MATERIAL - 172571 |          |     |                                    |
|---------------------------------------|----------|-----|------------------------------------|
| ITEM                                  | PART NO. | QTY | DESCRIPTION                        |
| 1                                     | 172564   | 1   | FILTER-SOLUTION E1720              |
| 2                                     | 172566   | 1   | HOSE- 1/2ID X 1.75" NYLOBRAID      |
| 3                                     | 172567   | 1   | HOSE-1/2"ID X 2.375" NYLOBRAID     |
| 4                                     | 172568   | 1   | HOSE-WIRE REINF 1/2"ID X 4.25"     |
| 5                                     | 172569   | 1   | FTG-ELBOW 90 1/2 HB X 1/2 HB NYLON |
| 6                                     | 172579   | 1   | SOLUTION CNTRL VALVE, WITH BRKT    |
| 7                                     | 383347   | 5   | CLAMP-CRIMP 1/2 HOSE               |



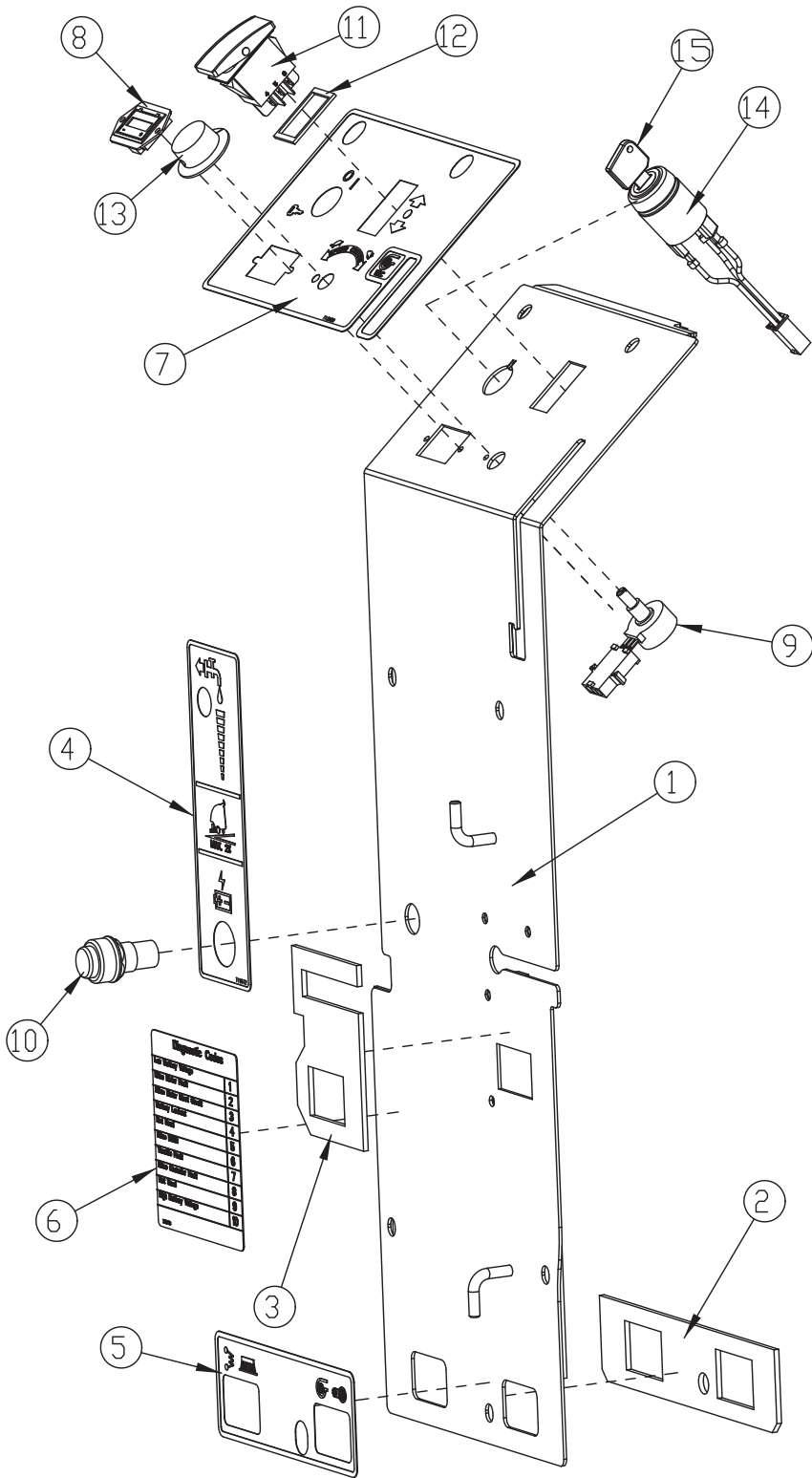
| BILL OF MATERIAL - 172012 |          |       |                                |
|---------------------------|----------|-------|--------------------------------|
| ITEM                      | PART NO. | REQ'D | DESCRIPTION                    |
| 1                         | 172116   | 1     | BATTERY BOX                    |
| 2                         | 172213   | 1     | BKT, SPACER FOR BATTERIES      |
| 3                         | 210414   | 2     | O RING 2-113                   |
| 4                         | 260224   | 1     | 18" HOSE                       |
| 5                         | 320271   | 1     | NOZZLE BODY-ELBOW              |
| 6                         | 320272   | 2     | NOZZLE BODY LOCKNUT            |
| 7                         | 320273   | 1     | HOSE SHUT-OFF CLAMP            |
| 8                         | 710178   | 2     | SCR-MC 1/4-20 X .50 TRUSS STPL |
| 9                         | 711575   | 2     | WSR-FLT .31x.75x.06ST          |
| 10                        | 828490   | 1     | CRIMP CLAMP 140R               |



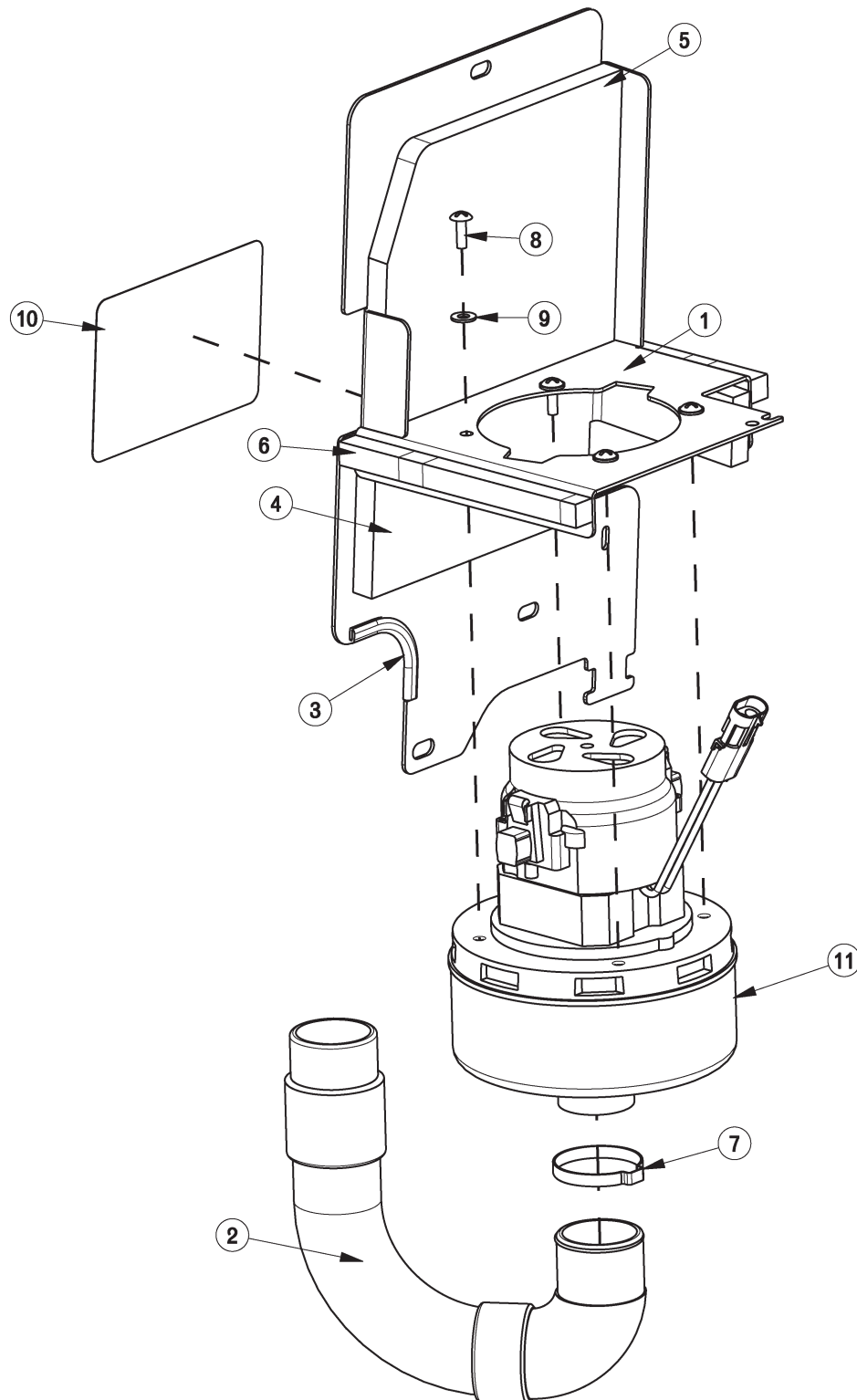
| BILL OF MATERIAL 172075-26 |           |       |                                  |
|----------------------------|-----------|-------|----------------------------------|
| ITEM                       | PART NO.  | REQ'D | DESCRIPTION                      |
| 1                          | 369-416   | 3     | NUT-HEX 1/4-20 NYLOC SERATED     |
| 2                          | 172077    | 1     | ELEC BOX-BOT HALF WMT            |
| 3                          | 172088    | 1     | ELEC BOX-TOP HALF WMT            |
| 5                          | 172141    | 1     | VAC SWITCH ASSY                  |
| 6                          | 172152    | 1     | VAC LEVER WMT                    |
| 7                          | 172188    | 1     | FOAM TAPE, 1/2" SQ X 16.5"       |
| 8                          | 172381    | 1     | CABLE ASSY, SQUEEGEE LIFT        |
| 9                          | 957761    |       | CHARGER, NEMA 5-15 PLUG          |
| 10                         | 670093    | 1     | SPRING, COMPRESSION              |
| 11                         | 710178    | 3     | SCR-MC 1/4-20 X .50 TRUSS STPL   |
| 12                         | 710534    | 2     | SCR-MC TR HD 8-32 X 1.00 SS      |
| 13                         | 711305    | 1     | NUT, HEX 8-32 BR                 |
| 14                         | 711372    | 2     | NUT-NYLOC 8-32 STL ZINC          |
| 15                         | 711383    | 2     | NUT-HEX CLR LOC 5/16-18          |
| 16                         | 711505    | 9     | 1/4 FLAT WASHER, STEEL           |
| 17                         | 711508    | 1     | WSR-FLAT .44X 1.0X.08            |
| 18                         | 711516    | 2     | WSR- FLAT .31 X 1.25 X .05       |
| 19                         | 711544    | 3     | WSR-HELICAL 1/4                  |
| 20                         | 712320    | 2     | WSR-NYLON .22 X .45 X .04        |
| 21                         | 712770    | 6     | WSR INT LOCK #10A SS             |
| 22                         | 712810    | 6     | SCR-MC 10-24 X .37 ST PL         |
| 23                         | 742748    | 4     | CIRCUIT BREAKER BOOT             |
| 24                         | 747710    | 1     | I-DRIVE,24V 70A PM MOTOR CONTROL |
| 25                         | 747637    | 1     | WIRE ASY, MACHINE-BATTERY        |
| 26                         | 747670-26 | 1     | ELEC PANEL ASSY                  |
| 27                         | 760134    | 2     | MOUNT RING                       |
| 28                         | 762084    | 1     | SPRING-EXT .25OD X 2" F.L. MUSIC |
| 29                         | 762400    | 1     | HEYCO BUSHING 2.00"              |
| 30                         | 828062    | 1     | CABLE TIE LARGE                  |
| 31                         | 15592033  | 2     | CAP, SAFETY NUT COVER M8         |



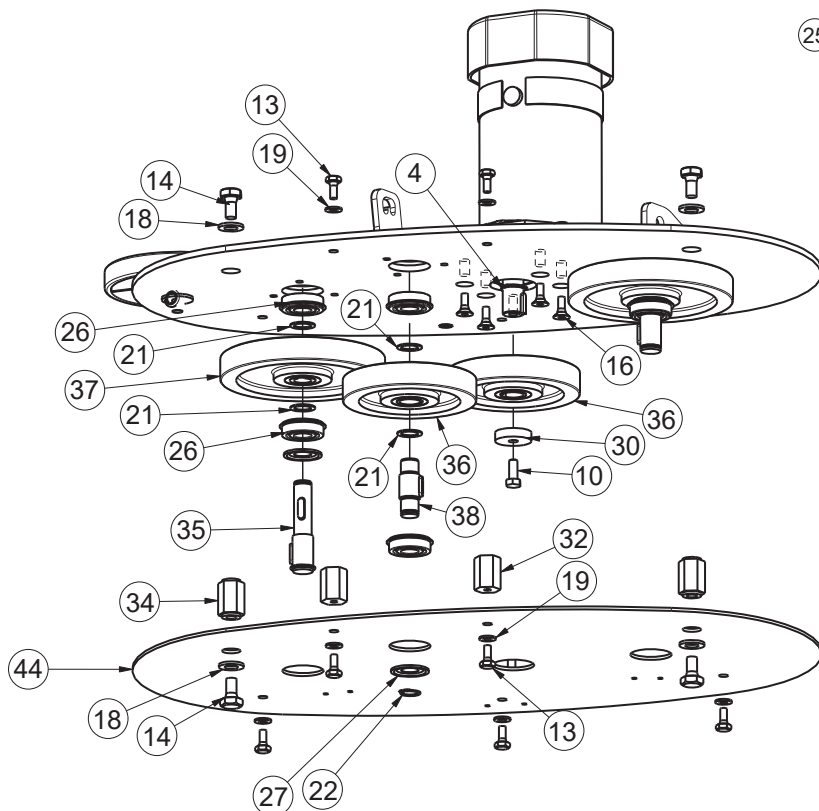
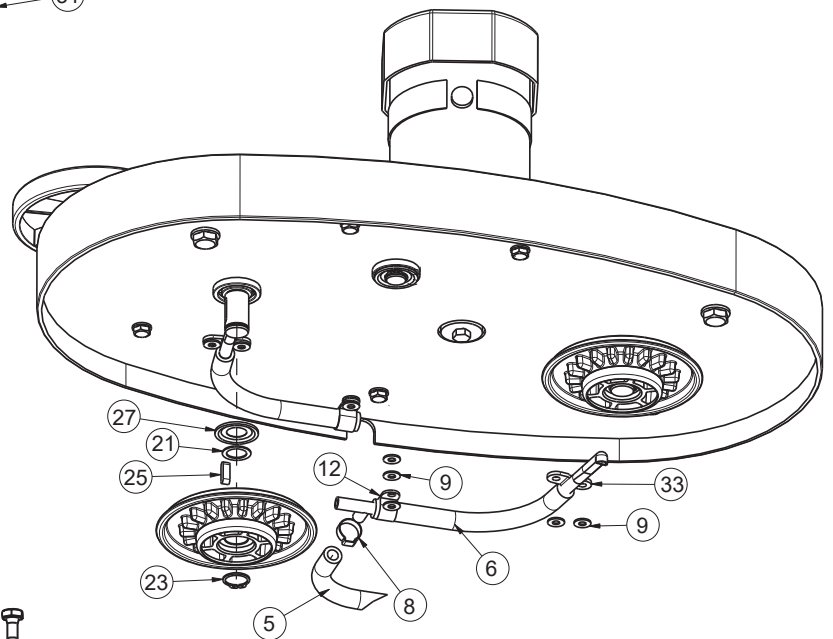
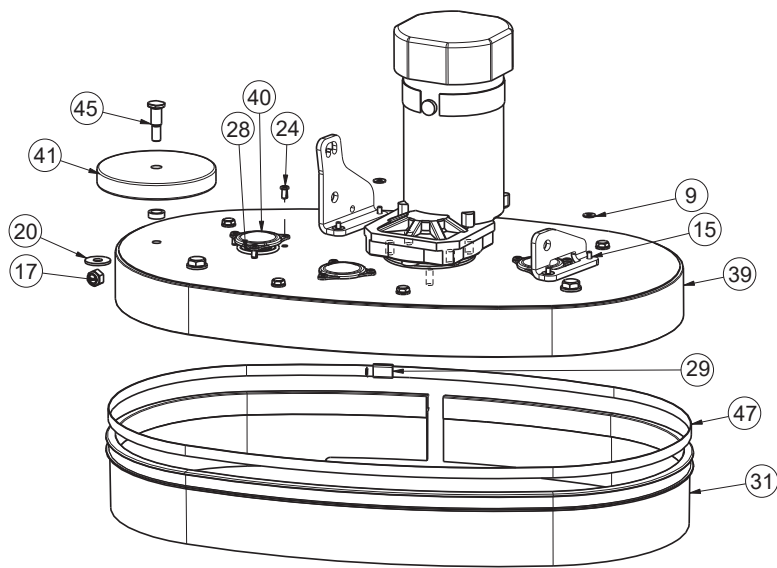
| BILL OF MATERIAL - 747670-26 |          |       |                                         |
|------------------------------|----------|-------|-----------------------------------------|
| ITEM                         | PART NO. | REQ'D | DESCRIPTION                             |
| 1                            | 172189   | 1     | PANEL, RELAY MOUNT                      |
| 2                            | 711350   | 4     | NUT -NYLOC 10-32                        |
| 3                            | 711543   | 2     | WSR-HELICAL #10                         |
| 4                            | 712800   | 2     | SCR-MC 10-24 X .25 ST PL                |
| 5                            | 740220   | 2     | CIRCUIT BREAKER-20AMP 2-T ERMIN         |
| 6                            | 740247   | 1     | CIRCUIT BREAKER-30AMP PUSH BUT          |
| 7                            | 740482   | 2     | DIODE ASY, 1N4007 W/PIGGY (NOT SHOWN)   |
| 8                            | 747609   | 1     | CIRCUIT BREAKER-4.0AMP PUSHBUT          |
| 9                            | 747615   | 1     | RELAY, 2 POLE CURT IS (1720)            |
| 10                           | 747616   | 1     | RELAY, 1 POLE CURT IS (1720)            |
| 11                           | 747619   | 2     | BRACKET , RELAY 747615 & 747616         |
| 12                           | 747640   | 1     | WIRE ASY, 10G RED 13" (NOT SHOWN)       |
| 13                           | 747641   | 1     | WIRE ASY, 10G RED 7" (NOT SHOWN)        |
| 14                           | 747711   | 1     | WIRE HARNESS, E1720T D MAIN (NOT SHOWN) |
| 15                           | 15592025 | 6     | CAP, SAFETY NUT COVER M 6               |
| 16                           | 15592033 | 2     | CAP, SAFETY NUT COVER M 8               |
| 17                           | 90331026 | 1     | RELAY, 24VDC 2 POLE 100A (HAKO)         |



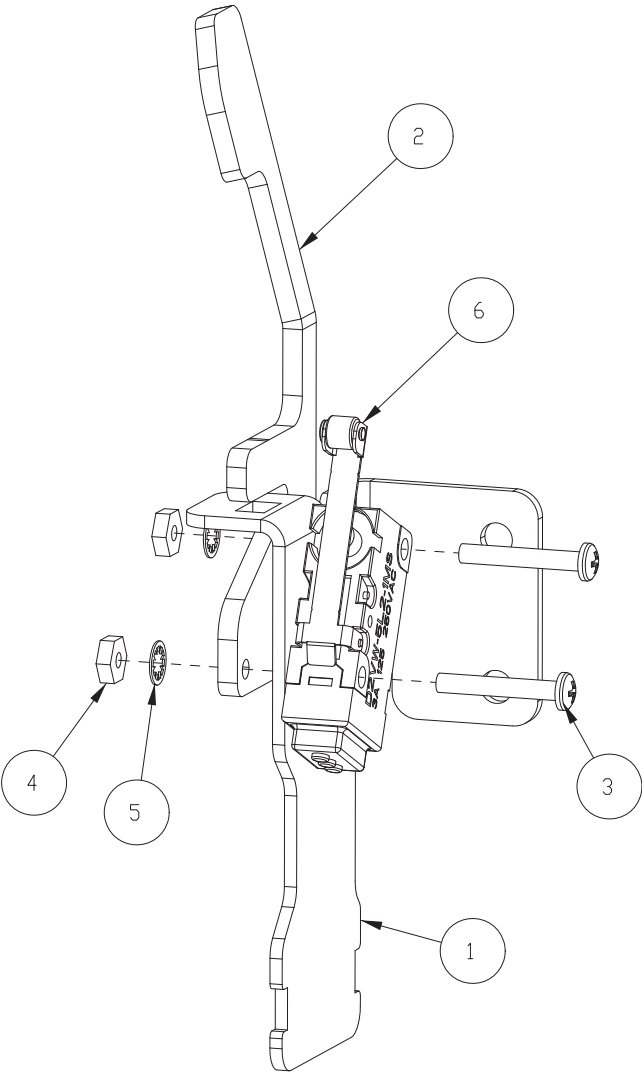
| BILL OF MATERIAL - 172079 |            |       |                                            |
|---------------------------|------------|-------|--------------------------------------------|
| ITEM                      | PART NO.   | REQ'D | DESCRIPTION                                |
| 1                         | 172182     | 1     | TD COVER WMT                               |
| 2                         | 172193     | 1     | GASKET , CB OUTLINE                        |
| 3                         | 172194     | 1     | GASKET , CHARGER CORD PLATE                |
| 4                         | 715672     | 1     | DECAL, CHARGE STATUS, SOLUTION CTRL        |
| 5                         | 715674     | 1     | DECAL, TD CIRCUIT BREAKER                  |
| 6                         | 715699     | 1     | DECAL. DIAGNOSTIC CODES E1720T D           |
| 7                         | 715680     | 1     | DECAL, CYL DASHBOARD                       |
| 8                         | 747011     | 1     | BATTERY GAUGE, TRUCHARG E                  |
| 9                         | 747026     | 1     | POTENTIOMETE0R ASSY SPEED CONTROL          |
| 10                        | 747614     | 1     | CHARG E STATUS INDICATOR                   |
| 11                        | 748201     | 1     | SWITCH , DPDT ON/OFF/ON                    |
| 12                        | 748209     | 1     | GASKET -FOR 2 POLE ROCKER SWITCHES         |
| 13                        | 809874     | 1     | KNOB, SPEED CONTROL                        |
| 14                        | 90323437-1 | 1     | KEYSWITC H ASY, SWITCH PLUS WIRES          |
| 15                        | 00745890   | 1     | KEY SET (2 pc .) -REPLACEMENT FOR 90323437 |



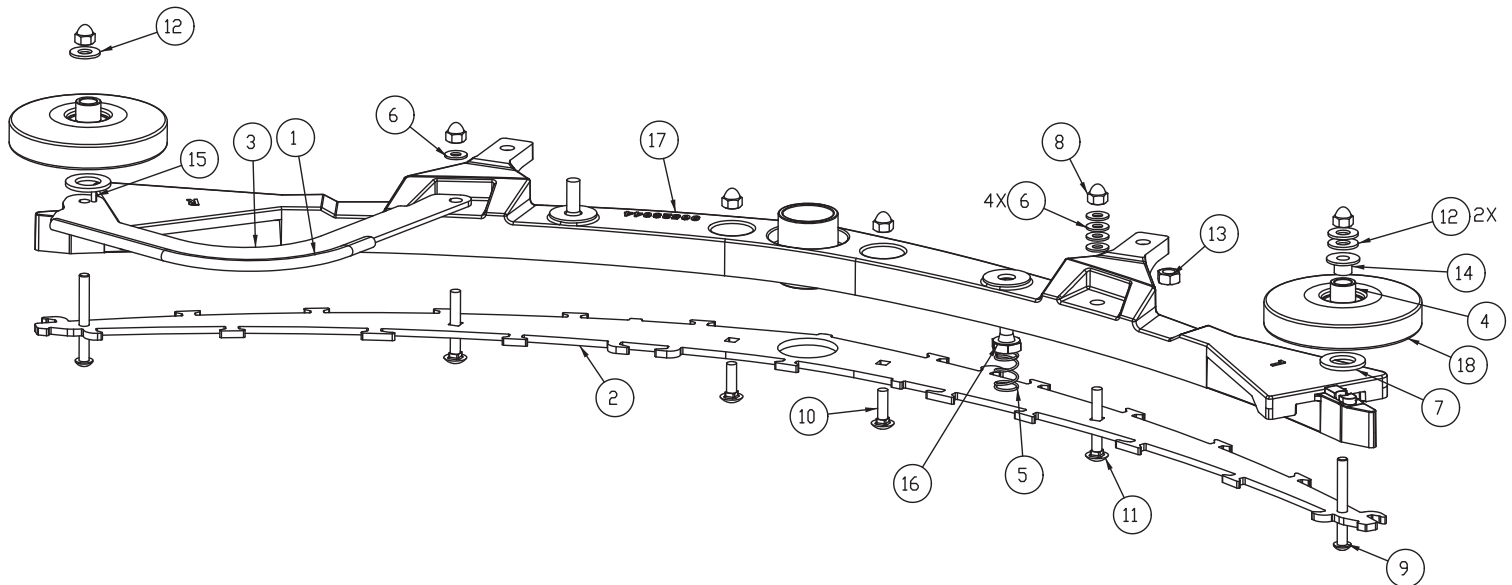
| BILL OF MATERIAL- 172050 |          |       |                                    |
|--------------------------|----------|-------|------------------------------------|
| ITEM                     | PART NO. | REQ'D | DESCRIPTION                        |
| 1                        | 172045   | 1     | VAC MOUNT WMT                      |
| 2                        | 172048   | 1     | HOSE, STRETCH 13"                  |
| 3                        | 172124   | 1     | EDGE TRIM, .063 X 3.0, BLACK       |
| 4                        | 172186   | 1     | FOAM COVER, FRONT 1                |
| 5                        | 172187   | 1     | FOAM COVER, FRONT 2                |
| 6                        | 172188   | 2     | FOAM TAPE, 1/2" SQ X 16.5"         |
| 7                        | 450095   | 1     | CRIMP CLAMP, 1.75"                 |
| 8                        | 711160   | 4     | #10 X 5/8 HI-LO                    |
| 9                        | 711503   | 4     | WSR, FLAT#10                       |
| 10                       | 715967   | 1     | DECAL, BATT CABLE ROUTE            |
| 11                       | 747607-1 | 1     | VAC MOTOR ASY                      |
| 11H                      | 747665-1 |       | VAC MOTOR ASY, 36/24V PERIF BYPASS |



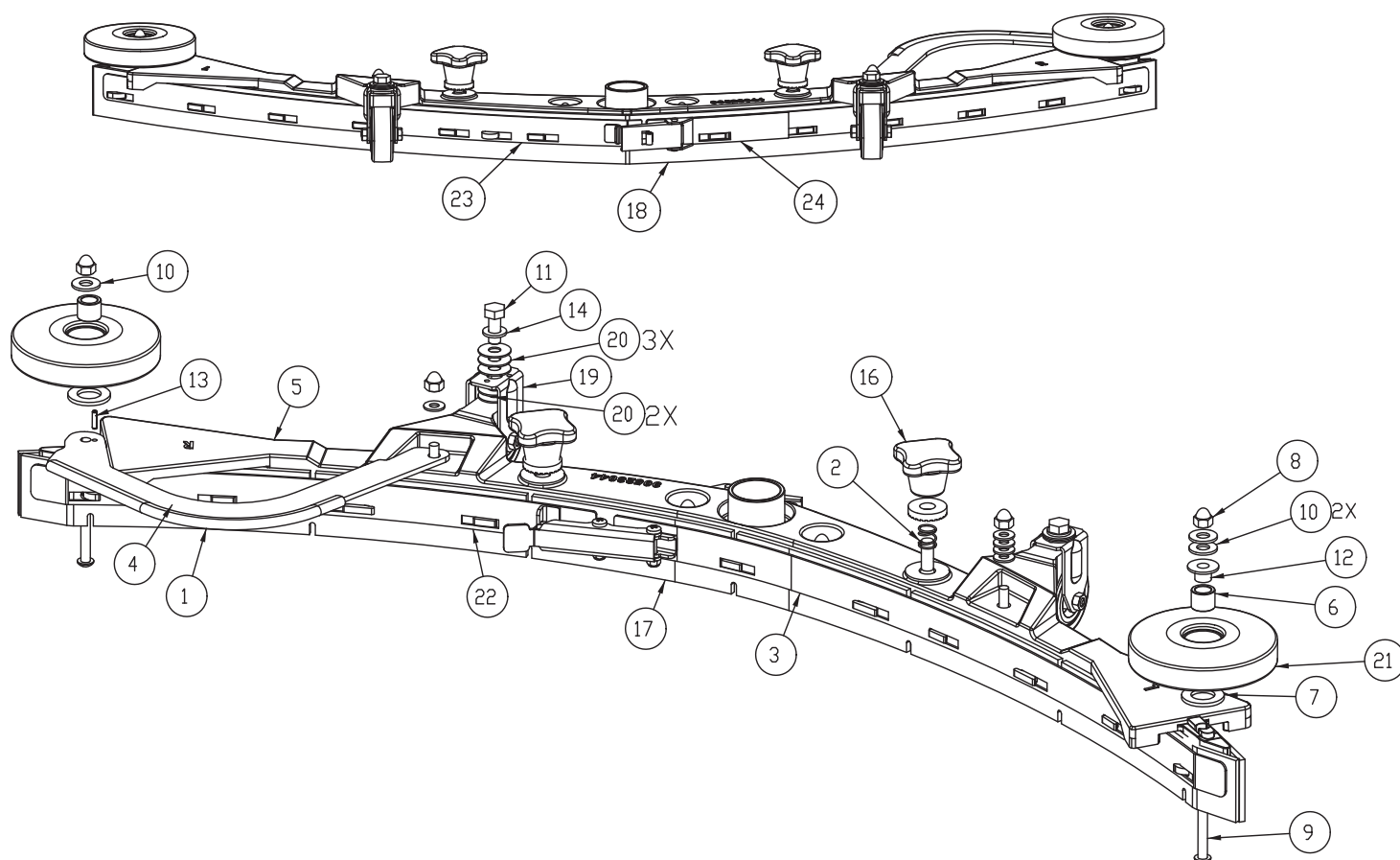
| BILL OF MATERIAL - 99711100 |          |     |                                          |      |          |     |                                      |
|-----------------------------|----------|-----|------------------------------------------|------|----------|-----|--------------------------------------|
| ITEM                        | PART #   | QTY | DESCRIPTION                              | ITEM | PART #   | QTY | DESCRIPTION                          |
| 1                           | 77-81-A  | 1   | SPACER-.53 X .75 X .25                   | 25   | 13540182 | 5   | KEY, SQ 6MM X 20                     |
| 2                           | 172417   | 1   | BKT, DECK MOUNT RIGHT                    | 26   | 14110787 | 6   | BEARING, 6203                        |
| 3                           | 172418   | 1   | BKT, DECK MOUNT LEFT                     | 27   | 14678288 | 3   | NILOS-RING                           |
| 4                           | 172425   | 1   | RING-RET EXT .75/20mm HD                 | 28   | 15282049 | 3   | O-RING, 42.5 X 3 NBR                 |
| 5                           | 172426   | 1   | HOSE-NYLO REINF 3/8 X 25                 | 29   | 17528555 | 1   | TENSION BAND LOCK                    |
| 6                           | 760302   | 2   | HOSE-NYLO REINF 3/8 X 8"                 | 30   | 90271511 | 1   | CAP, MOTOR GEAR                      |
| 7                           | 260178   | 1   | FTG-TEE 3/8 HB X 3/8 HB X 1/4 HB PE      | 31   | 90298845 | 1   | SPLASH GUARD, 26" DECK               |
| 8                           | 450076   | 1   | CLAMP-HOSE 5/8 (.590-.791) SS            | 32   | 90299371 | 5   | STANDOFF, HEX M8 X 31.5              |
| 9                           | 711504   | 14  | WASHER-FLAT 1/4 SS                       | 33   | 90311663 | 2   | FITTING, WATER NOZZLE W/ MOUNT HOLES |
| 10                          | 717030   | 1   | SCR-HH M8-1.25 X 20 SS                   | 34   | 90347832 | 2   | STANDOFF, HEX M8 X 31.5 W/PILOT      |
| 11                          | 747600   | 1   | MOTOR, 24VDC PM 600W                     | 35   | 90347840 | 2   | SHAFT, MAIN GEAR                     |
| 12                          | 1752903  | 2   | CLAMP-P, 51D                             | 36   | 90348715 | 2   | GEAR, INNER                          |
| 13                          | 11038197 | 10  | BLT-HH M8 X 1.25 X 16 STL ZD 8.8 DIN 933 | 37   | 90348723 | 2   | GEAR, MAIN                           |
| 14                          | 11038577 | 4   | BLT-HH M12 X 20                          | 38   | 90399684 | 1   | SHAFT, INNER GEAR                    |
| 15                          | 11206208 | 4   | SCR-MC FH M6 X 20                        | 39   | 90493701 | 1   | SIDE COVER, 26" DECK                 |
| 16                          | 11225331 | 4   | SCR-FH M8 X 20                           | 40   | 90494949 | 3   | COVER, BEARING                       |
| 17                          | 12040069 | 1   | NUT-NYLOC M10 X 1.5 ZD CLASS 6           | 41   | 90541319 | 1   | BUMPER WHEEL, 140MM, BLACK           |
| 18                          | 12310066 | 4   | WSR-FLT M13 X 24 X 2.5 STL 140HV ZD DIN  | 42   | 90542572 | 2   | DRIVE HUB - SCRUBBER, DISK           |
| 19                          | 12310264 | 10  | WSR-FLT M8.4 X 16 X 1.6 A2 SS            | 43   | 90572447 | 1   | TOP PLATE, 26ECO DECK                |
| 20                          | 12332037 | 1   | WSR-FLT M10.5 X 30 X 2.5 STL 140HV ZD DI | 44   | 90572454 | 1   | BOTTOM PLATE, 26ECO DECK             |
| 21                          | 12335063 | 8   | WSR-FLT, 17 X 24 X 1                     | 45   | 90572470 | 1   | BLT-SHLD 12.4 X 22MM X M10           |
| 22                          | 12610085 | 3   | CIRCLIP                                  | 46   | 90572504 | 1   | SPACER, BRUSH MOTOR                  |
| 23                          | 12610093 | 2   | CIRCLIP                                  | 47   | 90572538 | 1   | REATINING BAND, 26" DECK             |
| 24                          | 13166087 | 9   | RIVET, PLASTIC PUSH-IN                   |      |          |     |                                      |



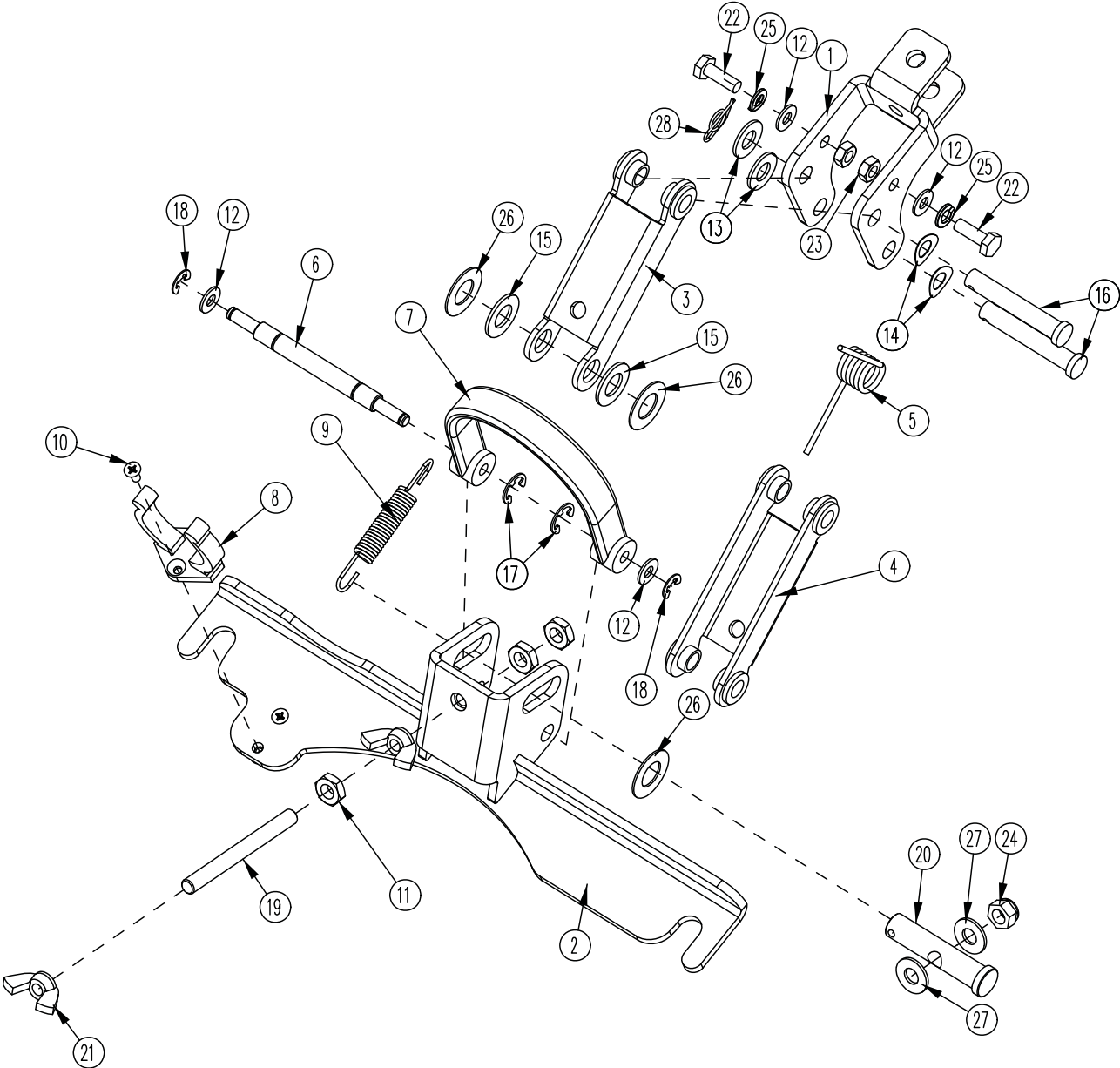
| BILL OF MATERIAL - 172141 |          |       |                                         |
|---------------------------|----------|-------|-----------------------------------------|
| ITEM                      | PART NO. | REQ'D | DESCRIPTION                             |
| 1                         | 172140   | 1     | BKT, VAC SWITCH MOUNT                   |
| 2                         | 172337   | 1     | COVER, VAC SWITCH                       |
| 3                         | 710493   | 2     | SCR-MC 4-40 X .75 PAN HD                |
| 4                         | 711428   | 2     | NUT-HEX 4-40                            |
| 5                         | 712326   | 2     | WSR-INT LOCK #4                         |
| 6                         | 747603-2 | 1     | SWITCH ASY, MICRO ROLLER W/PACK/CONDUIT |


**BILL OF MATERIAL - 172539**

| ITEM | PART NO. | REQ'D | DESCRIPTION                       |
|------|----------|-------|-----------------------------------|
| 1    | 172274   | 1     | EDGE TRIM, 10" BLACK              |
| 2    | 172437   | 1     | BASE PLAT E SS-FOR 950 CAST ING   |
| 3    | 172450   | 1     | BUMPER, 38" SQG                   |
| 4    | 430322   | 2     | BUSHING .435 X .625 X .50         |
| 5    | 670093   | 2     | SPRING, COMPRESSION               |
| 6    | 711504   | 5     | WSR-FLAT 1/4 ID SS                |
| 7    | 711527   | 2     | WSR-FLAT .63 X 1.12 X .09         |
| 8    | 712591   | 6     | NUT, ACORN 1/4-20 SS              |
| 9    | 712592   | 2     | SCR-MC BHCS, 1/4-20 X 2.25, SS    |
| 10   | 712593   | 2     | BLT-CARR 1/4-20 X .875 SS         |
| 11   | 712594   | 2     | BLT-CARR 1/4-20 X 1.75 SS         |
| 12   | 712772   | 3     | WSR-FLAT .344 x .75 x .06 SS      |
| 13   | 717029   | 2     | NUT-HEX M8X1.25 SS                |
| 14   | 840202   | 1     | BUSHING-FLG .31 X .437 X .325 NYL |
| 15   | 3400727  | 1     | PIN-ROLL 1/8 X .50, ZINC          |
| 16   | 11039328 | 2     | BLT-HH M10X25 SS DIN 933          |
| 17   | 90523044 | 1     | CASTING, 950MM SQUEEGEE           |
| 18   | 90548397 | 2     | ROLLER - 100MM PLASTIC BLACK      |



| BILL OF MATERIAL - 172538 |          |       |                                                   |
|---------------------------|----------|-------|---------------------------------------------------|
| ITEM                      | PART NO. | REQ'D | DESCRIPTION                                       |
| 1                         | 172274   | 1     | EDGE TRIM , 10" BLACK                             |
| 2                         | 172429   | 2     | SPRING, COMPRESSION                               |
| 3                         | 172448   | 1     | TENSION BAND ASM - LEFT FRONT , 38" w/LATCH INCL. |
| 4                         | 172450   | 1     | BUMPER, 38" SQG                                   |
| 5                         | 172539   | 1     | 38" SQUEEGEE BASE ASM -E2426                      |
| 6                         | 430322   | 2     | BUSHING .435 X .625 X .50                         |
| 7                         | 711527   | 2     | WSR-FLAT .63 X 1.12 X .09                         |
| 8                         | 712591   | 2     | NUT , ACORN 1/4-20 SS                             |
| 9                         | 712592   | 2     | SCR-M C BHCS, 1/4-20 X 2.25, SS                   |
| 10                        | 712772   | 3     | WSR-FLAT .344 x .75 x .06 SS                      |
| 11                        | 717030   | 2     | BOLT -HH M 8X1.25 X 20 SS                         |
| 12                        | 840202   | 1     | BUSHING-FLG .31 X .437 X .325 NYL                 |
| 13                        | 3400727  | 1     | PIN-ROLL 1/8 X .50, ZINC                          |
| 14                        | 12310264 | 2     | WSR-FLT M 8.4X16X1.6 SS                           |
| 15                        | 12515094 | 2     | WSR-CONICAL SERRATED T OOT H, M 10.6              |
| 16                        | 17133026 | 2     | KNOB, M 10 STAR HANDLE                            |
| 17                        | 90493560 | 1     | SQUEEGEE BLADE - FRONT , 950mm                    |
| 18                        | 90494139 | 1     | SQUEEGEE BLADE - REAR, 950mm                      |
| 19                        | 90513094 | 2     | FIXED CASTOR                                      |
| 20                        | 90531112 | 10    | WSR-FLT 8.3 X 22 X 1MM SS                         |
| 21                        | 90548397 | 2     | ROLLER - 100MM PLASTIC BLACK                      |
| 22                        | 96125828 | 1     | TENSION BAND - RIGHT FRONT                        |
| 23                        | 96125844 | 1     | TENSION BAND - LEFT REAR                          |
| 24                        | 96125851 | 1     | TENSION BAND - RIGHT REAR                         |



| BILL OF MATERIAL - 172150 |          |       |                                  |
|---------------------------|----------|-------|----------------------------------|
| ITEM                      | PART NO. | REQ'D | DESCRIPTION                      |
| 1                         | 172134   | 1     | BKT , MAIN SQUEEGEE HINGE        |
| 2                         | 172155   | 1     | SQUEEGEE MOUNT WMT               |
| 3                         | 172196   | 1     | SQ TOP LIN K W/ BUSHING          |
| 4                         | 172197   | 1     | SQ BOT LINK W/ BUSHING           |
| 5                         | 172261   | 1     | TORSION SPRING                   |
| 6                         | 172352   | 1     | PIN , 3 /8 X 3.0, SQ G STRAP     |
| 7                         | 172357   | 1     | STRAP, 9 " PU , BLACK            |
| 8                         | 260579   | 1     | TOOL CLIP, 1.5" HOSE             |
| 9                         | 430051   | 1     | RETURN SPRING -3 .00"            |
| 10                        | 710528   | 2     | SCR -MC 8-32 X .37 FH - BR       |
| 11                        | 711420   | 3     | NUT - HEX JAM 5 /16-18 ST PL     |
| 12                        | 711504   | 4     | WSR -F LAT 1/4 ID SS             |
| 13                        | 711515   | 2     | WSR -F LAT .406 X .812 X .0625   |
| 14                        | 711523   | 2     | WSR -WAVE .37 X .68 X .08        |
| 15                        | 711592   | 2     | WSR -F LAT .506 X .9 X .064 N YL |
| 16                        | 711678   | 2     | CLEVIS PIN 3/8 X 2 -1/4          |
| 17                        | 711717   | 2     | RETAINING RING - E TYPE .37      |
| 18                        | 711720   | 2     | .250 DIA RETAINING RING - E TYPE |
| 19                        | 712147   | 1     | ROD -THD 5/16 -18 X 3.25 SS      |
| 20                        | 712148   | 1     | CLEVIS PIN , 1/2 x 2.25 W/ HOLE  |
| 21                        | 712157   | 2     | NUT - WING 5 /16 -18 SS          |
| 22                        | 712562   | 2     | BOLT -HH 1 /4-20 X 3 /4 SS       |
| 23                        | 712665   | 2     | NUT -HEX 1 /4-20 SS              |
| 24                        | 712683   | 1     | NUT , HEX 5/16 -18 NYLOC SS      |
| 25                        | 712758   | 2     | WSR -HELICAL 1/4 SS              |
| 26                        | 712760   | 3     | WSR -FLAT .56X 1 .06 X.04 SS     |
| 27                        | 712772   | 2     | WSR -FLAT .344 x .75 x .06 SS    |
| 28                        | 3400125  | 1     | PIN -COTTER 3/8 RUE RING         |

# 1 Wiring Diagrams

PAGE LAYOUT

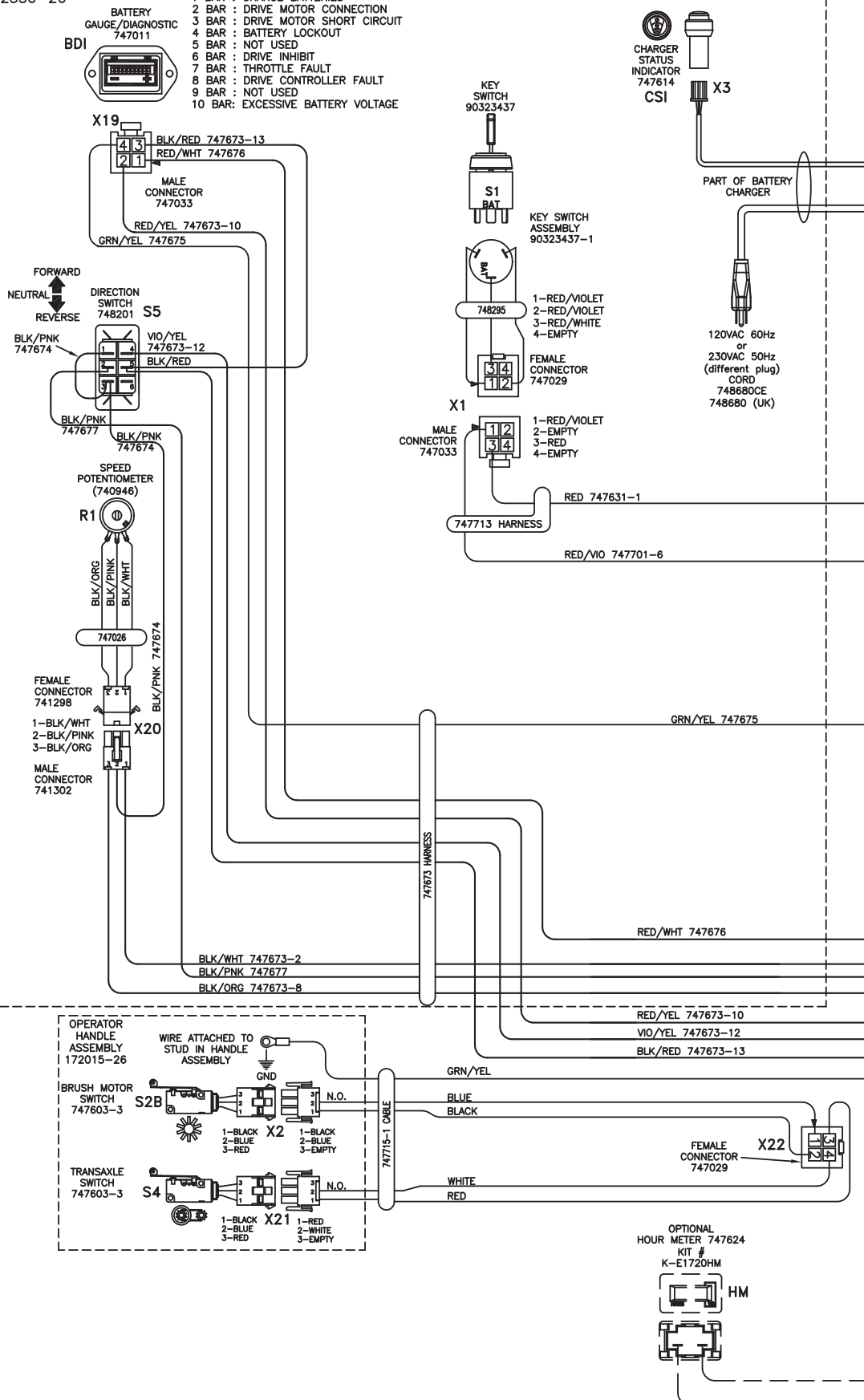
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AS SHOWN TO SEE THE  
ENTIRE SCHEMATIC AS  
ONE.

ELECTRICAL  
BOX COVER  
ASSEMBLY  
172330-26

715678: DIAGNOSTIC CODE DECAL

DIAGNOSTIC CODES: BATTERY GAUGE: 747011  
1 BAR : CHARGE BATTERIES  
2 BAR : DRIVE MOTOR CONNECTION  
3 BAR : DRIVE MOTOR SHORT CIRCUIT  
4 BAR : BATTERY LOCKOUT  
5 BAR : NOT USED  
6 BAR : DRIVE INHIBIT  
7 BAR : THROTTLE FAULT  
8 BAR : DRIVE CONTROLLER FAULT  
9 BAR : NOT USED  
10 BAR : EXCESSIVE BATTERY VOLTAGE



# ELECTRICAL BOX ASSEMBLY 172075-26

CHARGER  
957760  
IEC60320 C14

BC  
BATTERY CHARGER  
100-240V~ 50/60Hz  
957761 (115VAC)  
NEMA 5/15P  
957760 (230VAC)  
IEC 60320 C14

CHARGING PROFILES

1. 956712 12V 105Ah-FLOODED(-1)
2. 956140 12V 140Ah-FLOODED(-2)
3. 956135 12V 135Ah-GEL(G-3)
4. 956100 12V 100Ah-GEL(G-4)

ROTARY SWITCH

BOTTOM VIEW



RELAY NUT COVER

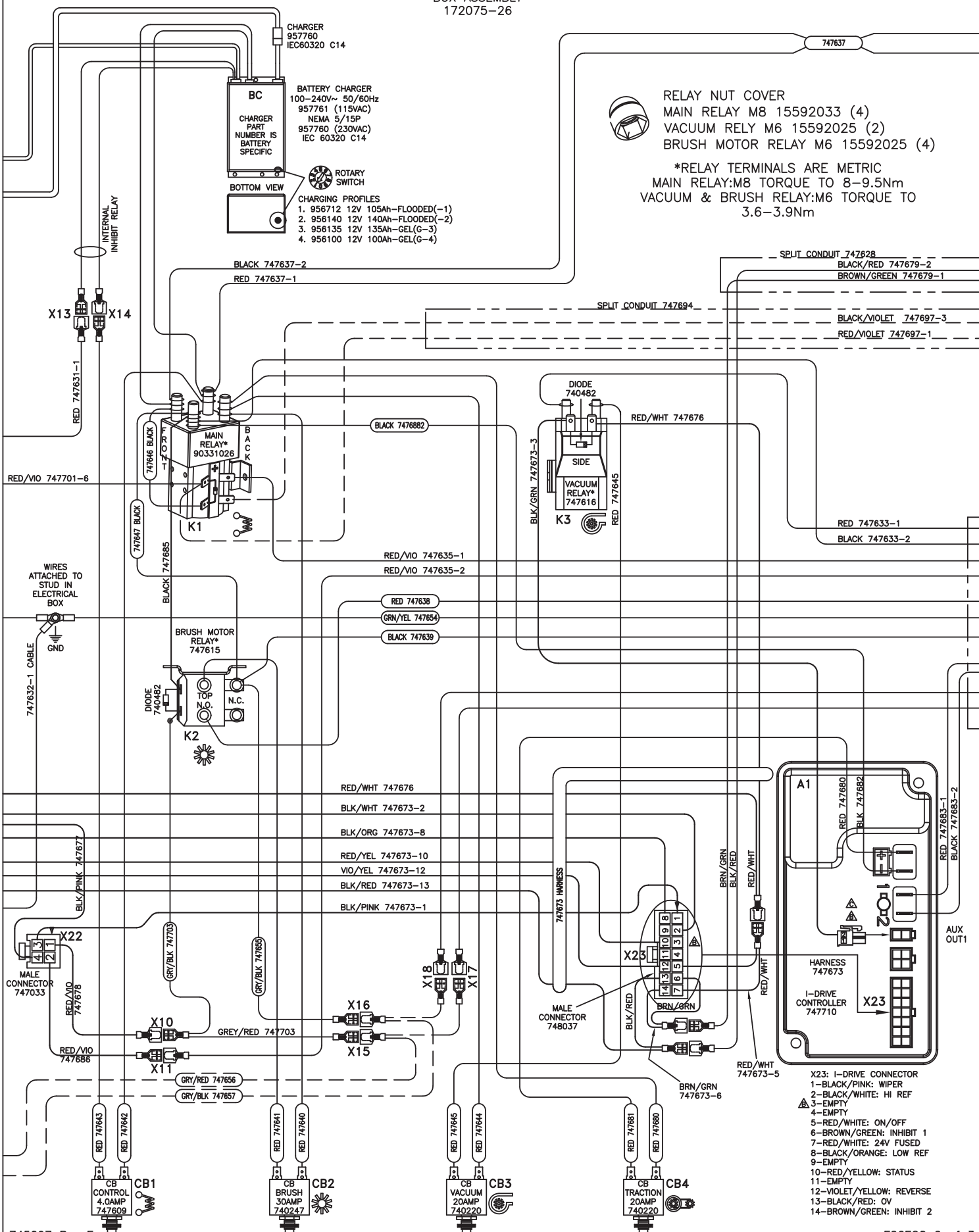
MAIN RELAY M8 15592033 (4)

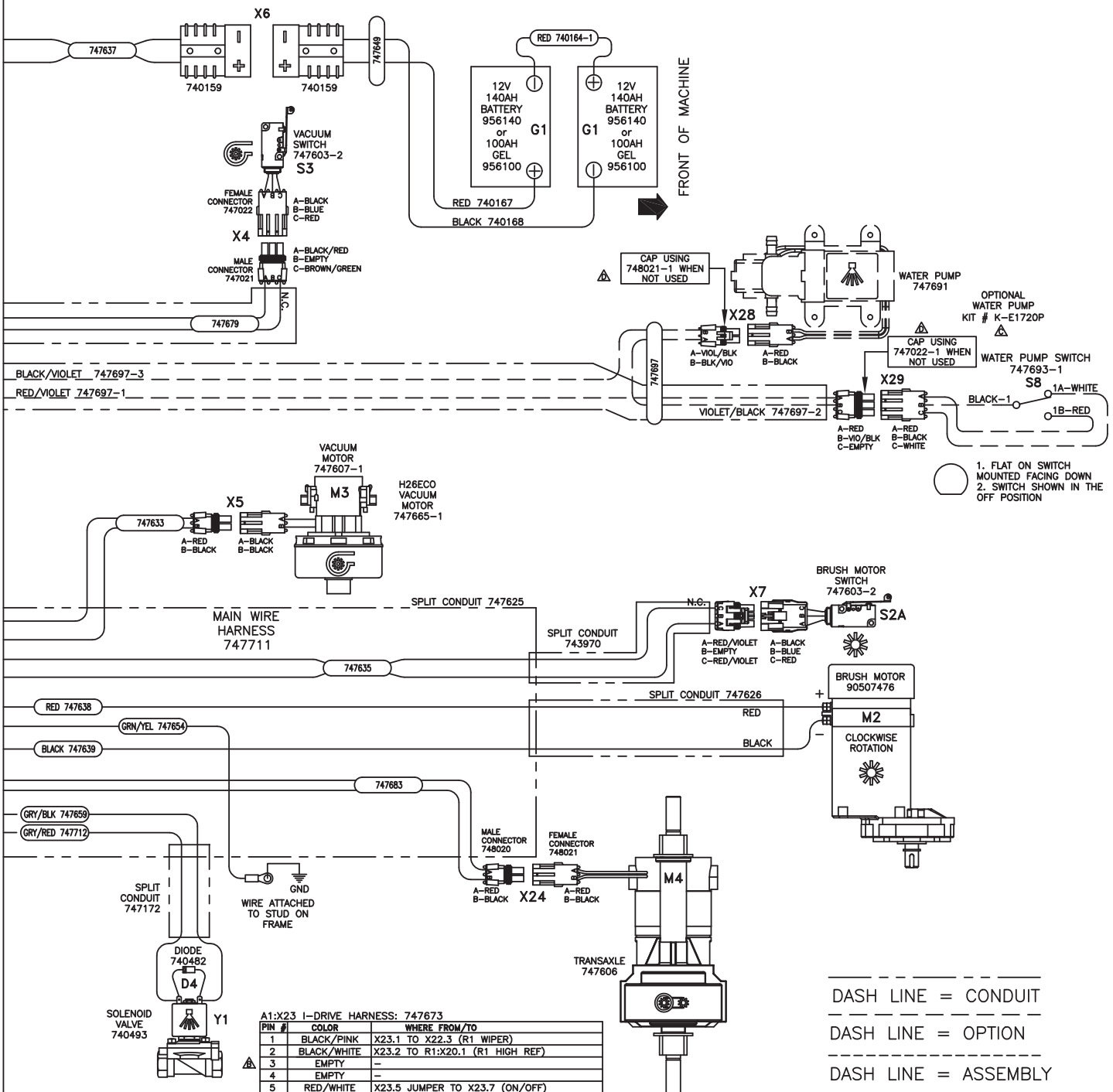
VACUUM RELY M6 15592025 (2)

BRUSH MOTOR RELAY M6 15592025 (4)

\*RELAY TERMINALS ARE METRIC

MAIN RELAY:M8 TORQUE TO 8-9.5Nm  
VACUUM & BRUSH RELAY:M6 TORQUE TO  
3.6-3.9Nm





A1:X23 I-DRIVE HARNESS: 747673

| PIN # | COLOR         | WHERE FROM/TO                            |
|-------|---------------|------------------------------------------|
| 1     | BLACK/PINK    | X23.1 TO X22.3 (R1 WIPER)                |
| 2     | BLACK/WHITE   | X23.2 TO R1:X20.1 (R1 HIGH REF)          |
| 3     | EMPTY         | -                                        |
| 4     | EMPTY         | -                                        |
| 5     | RED/WHITE     | X23.5 JUMPER TO X23.7 (ON/OFF)           |
| 6     | BROWN/GREEN   | X23.6 JUMPER TO X23.14 (INHIBIT 1)       |
| 7     | RED/WHITE     | X23.7 JUMPER TO X23.5 (24VDC FUSED)      |
| 8     | BLACK/ORANGE  | X23.8 TO R1:X20.3 (R1 LOW-REF)           |
| 9     | EMPTY         | -                                        |
| 10    | RED/YELLOW    | X23.10 TO BD:X19.2 (STATUS)              |
| 11    | EMPTY         | -                                        |
| 12    | VIOLET/YELLOW | X23.12 TO S5.4 (REVERSE)                 |
| 13    | BLACK/RED     | X23.13 JUMPER S5.5 JUMPER BD1:X19.3 (OV) |
| 14    | BROWN/GREEN   | X23.14 JUMPER TO X23.6 (INHIBIT 2)       |

R1:X20 SPEED POTENTIOMETER: 747026

| COLOR | WHERE FROM/TO                        |
|-------|--------------------------------------|
| 1     | BLACK/WHITE X20.1 TO A1:X23.2        |
| 2     | BLACK/PINK X20.2 TO S5.3 JUMPER S5.1 |
| 3     | BLACK/ORANGE X20.3 TO A1:X23.8       |

X22: OPERATOR HANDLE CABLE: 747715-1

| COLOR | WHERE FROM/TO           |
|-------|-------------------------|
| 1     | BLUE X22.1 TO S2B:X2.B  |
| 2     | BLACK X22.2             |
| 3     | RED X22.3 TO S4:X21.A   |
| 4     | WHITE X22.4 TO S4:X21.B |

X22: CONNECTOR TO OPERATOR HANDLE CABLE: 747715-1

| COLOR | WHERE FROM/TO                                           |
|-------|---------------------------------------------------------|
| 1     | RED/VIOLET X22.1 TO X10 JUMPER K2:COIL:24VDC JUMPER X15 |
| 2     | RED/VIOLET X22.2 TO X11 TO S2A:X7.A                     |
| 3     | BLACK/PINK X22.3 TO A1:X23.1                            |
| 4     | BLACK/PINK X22.4 TO S5.2                                |

S1:X1 MAIN KEYSWITCH ASSEMBLY: 90323437-1

| PIN # | COLOR          | WHERE FROM/TO                 |
|-------|----------------|-------------------------------|
| 1     | RED/VIOLET     | X1.1 TO K1:COIL:24VDC         |
| 2     | EMPTY          | -                             |
| 3     | RED or RED/WHI | X1.3 TO X13 BC INTERNAL RELAY |
| 4     | EMPTY          | -                             |

BATTERY CHARGER: 957761 or 957760

| COLOR | WHERE FROM/TO                        |
|-------|--------------------------------------|
| X13   | RED X13 TO S1:X1.1                   |
| X14   | BLACK X14: CB1 CONTROL 4.0A          |
| 14GA  | RED K1:CONTACT + (REAR LEFT POST)    |
| 14GA  | BLACK K1:CONTACT - (FRONT LEFT POST) |

OTHER WIRE COLORS

|              |                                          |
|--------------|------------------------------------------|
| RED          | BATTERY 24VDC: +                         |
| BLACK        | BATTERY OVDC: -                          |
| GREEN/YELLOW | GROUND                                   |
| RED/VIOLET   | 24VDC AFTER MAIN KEYSWITCH               |
| GREY/RED     | OPTIONAL POWER 24VDC: 4A MAX             |
| GREY/BLACK   | OPTIONAL POWER OVDC: 4A MAX              |
| X8:A         | VIOLET/BLACK WATER PUMP: 24VDC           |
| X8:B         | BLACK/VIOLET WATER PUMP: OVDC            |
| X9:A         | VIOLET/BLACK WATER SOLENOID VALVE: 24VDC |
| X9:B         | BLACK/VIOLET WATER SOLENOID VALVE: OVDC  |

E26ECO PART REFERENCE LIST  
Schematic 745097

| REFERENCE #         | COMPONENT NAME                                 | PART NUMBER        |
|---------------------|------------------------------------------------|--------------------|
| M1 (optional)       | not used                                       | -                  |
| M2                  | MOTOR, BRUSH                                   | 90507476           |
| M3                  | MOTOR, VACUUM ASSEMBLY                         | 747607-1           |
| M4                  | TRANSAXLE                                      | 747606             |
| Y1                  | SOLENOID VALVE, WATER                          | 740493             |
| K1                  | RELAY, MAIN                                    | 90331026           |
| K2                  | RELAY, BRUSH MOTOR                             | 747615             |
| K3                  | RELAY, VACUUM                                  | 747616             |
| CB1                 | CIRCUIT BREAKER 4.0A, CONTROL                  | 747609             |
| CB2                 | CIRCUIT BREAKER 30A, BRUSH MOTOR               | 740247             |
| CB3                 | CIRCUIT BREAKER 20A, VACUUM MOTOR              | 740220             |
| CB4                 | CIRCUIT BREAKER 20A, TRANSAXLE                 | 740220             |
| S1                  | KEYSWITCH                                      | 747617             |
| S2A                 | SWITCH, BRUSH MOTOR (at motor)                 | 747603-2           |
| S2B                 | SWITCH, BRUSH MOTOR (handle)                   | 747603-3           |
| S3                  | SWITCH, VACUUM MOTOR                           | 747603-2           |
| S4                  | SWITCH, TRANSAXLE (handle)                     | 747603-3           |
| S5                  | SWITCH, DIRECTION                              | 748201             |
| S8 (optional)       | not used                                       | -                  |
| A1                  | CONTROLLER, I-DRIVE                            | 747710             |
| R1                  | SPEED POTENTIOMETER ASSEMBLY                   | 747026             |
| BDI                 | BATTERY DISCHARGE INDICATOR                    | 747011             |
| CSI                 | CHARGER STATUS INDICATOR                       | 747614             |
| HM (optional)       | HOUR METER (KIT K-E1720HM)                     | 747624             |
| BC (model specific) | BATTERY CHARGER 115VAC (battery type specific) | 957761 (-2 or G-4) |
| BC (model specific) | BATTERY CHARGER 230VAC (battery type specific) | 957760 (-2 or G-4) |
| G1                  | BATTERY, 12V 140AH (2 REQUIRED)                | 956140             |
| G1 (optional)       | BATTERY, GEL 12V 100AH (2 REQUIRED)            | 956100             |
| D1                  | DIODE, MAIN RELAY                              | Part of K1         |
| D2                  | DIODE ASM, BRUSH MOTOR RELAY                   | 740482             |
| D3                  | DIODE ASM, VACUUM MOTOR RELAY                  | 740482             |

| REFERENCE #    | CONNECTOR FUNCTION                        | PART # -female | PART # -male |
|----------------|-------------------------------------------|----------------|--------------|
| X1             | KEYSWITCH (S1)                            | 744012         | 748037       |
| X2             | SWITCH, BRUSH MOTOR (S2B)                 | 747022         | 747021       |
| X3             | CHARGER STATUS INDICATOR (CSI)            | Part of CSI    | Part of BC   |
| X4             | SWITCH, VACUUM (S3)                       | 747022         | 747021       |
| X5             | MOTOR, VACUUM (M3)                        | 748021         | 748020       |
| X6             | BATTERY CONNECTOR                         | 740159         | 740159       |
| X7             | SWITCH, BRUSH MOTOR (S2A)                 | 747022         | 747021       |
| X8 (optional)  | not used                                  | -              | -            |
| X9             | not used                                  | -              | -            |
| X10            | OPERATOR HANDLE CABLE                     | 741093         | 740697       |
| X11            | OPERATOR HANDLE CABLE                     | 740366         | 740697       |
| X13            | BATTERY CHARGER (BC)- INTERNAL RELAY      | 740366         | 740697       |
| X14            | BATTERY CHARGER (BC)-INTERNAL RELAY       | 740366         | 740697       |
| X15            | SOLENOID (Y1) /HOUR METER CONNECTION (HM) | 740366         | 741165       |
| X16            | SOLENOID (Y1) /HOUR METER CONNECTION (HM) | 740366         | 741165       |
| X17 (optional) | OPTIONAL HOUR METER (HM) WIRE-747656      | 740366         | 741165       |
| X18 (optional) | OPTIONAL HOUR METER (HM) WIRE-747657      | 740366         | 741165       |
| X19            | BATTERY GAUGE (BDI)                       | Part of BDI    | 747033       |
| X20            | SPEED POT ASSEMBLY (R1)                   | 741298         | 741302       |
| X21            | SWITCH, TRANSAXLE (S4)                    | 747022         | 747021       |
| X22            | OPERATOR HANDLE CABLE: 747632-1           | 747029         | 747033       |
| X23            | I-DRIVE HARNESS: 747673                   | Part of A1     | 748037       |
| X24            | TRANSAXLE (M4)                            | 748021         | 748020       |
| X25            | I-DRIVE (A1) TO VACUUM SWITCH (S3)        | 740366-1       | 741165       |
| X26            | I-DRIVE (A1) TO VACUUM SWITCH (S3)        | 741093         | 740698       |
| X27            | I-DRIVE (A1) TO VACUUM RELAY-CONTACT      | 741093         | 741165       |
| X28 (optional) | not used                                  | -              | -            |
| X29 (optional) | not used                                  | -              | -            |

## Minuteman International Made Simple Commercial Limited Warranty

### REVISION O EFFECTIVE 4/1/2016

Minuteman International, Inc. warrants to the original purchaser/user that the product is free from defects in workmanship and materials under normal use. Minuteman will, at its option, repair or replace without charge, parts that fail under normal use and service when operated and maintained in accordance with the applicable operation and instruction manuals. All warranty claims must be submitted through and approved by factory authorized repair stations.

This warranty does not apply to normal wear, or to items whose life is dependent on their use and care, such as belts, cords, switches, hoses, rubber parts, electrical motor components or adjustments. Parts manufactured by Minuteman are covered by and subject to the warranties and/or guarantees of their manufacturers. Please contact Minuteman for procedures in warranty claims against these manufacturers.

**Special warning to purchaser** -- Use of replacement filters and/or pre-filters not manufactured by Minuteman or its designated licensees, will void all warranties expressed or implied. A potential health hazard exists without original equipment replacement.

All warranted items become the sole property of Minuteman or its original manufacturer, whichever the case may be.

Minuteman disclaims any implied warranty, including the warranty of merchantability and the warranty of fitness for a particular purpose. Minuteman assumes no responsibility for any special, incidental or consequential damages.

This limited warranty is applicable only in the U.S.A. and Canada, and is extended only to the original user/purchaser of this product. Customers outside the U.S.A. and Canada should contact their local distributor for export warranty policies. Minuteman is not responsible for costs or repairs performed by persons other than those specifically authorized by Minuteman. This warranty does not apply to damage from transportation, alterations by unauthorized persons, misuse or abuse of the equipment, use of non-compatible chemicals, or damage to property, or loss of income due to malfunctions of the product.

If a difficulty develops with this machine, you should contact the dealer from whom it was purchased.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion or limitation of special, incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.

| Model                  | Parts | Labor | Poly  | Travel** |
|------------------------|-------|-------|-------|----------|
| Cord Electric Group    | 5yrs  | 3yrs  | 12yrs | 90 days  |
| Battery Operated Group | 5yrs  | 3yrs  | 12yrs | 90 days  |

### ***Exceptions.....***

| Model                             | Parts | Labor   | Poly  | Travel** |
|-----------------------------------|-------|---------|-------|----------|
| Port A Scrub, all models          | 1yr   | 6months | 12yrs | 90 days  |
| A3S Blower                        | 1yr   | 1yr     | 0     | 0        |
| Phenom Dual Motor Upright Vacuums | 2yrs  | 2yrs    | 0     | 0        |
| Explosion Proof Vacuum            | 1yr   | 1yr     | 0     | 0        |
| Propane Burnisher                 | 1yr   | 1yr     | 0     | 90 days  |
| **Travel, 2 hours max             |       |         |       |          |

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| <i>Stand-alone Battery Chargers:</i> | One year                                          |
| <i>Replacement Parts:</i>            | Ninety days                                       |
| <i>Batteries:</i>                    | 0-3 months full replacement, 4-12 months pro-rate |
| <i>Polypropylene Plastic Tanks:</i>  | 12yr warranty, no additional labor                |



# ***“Excellence Meets Clean”***

**Minuteman is a Full Line Manufacturer of Sweepers and Scrubbers,  
for Industrial Facilities.**

14N845 U.S. Route 20, Pingree Grove, IL 60140 USA  
Phone (800) 323-9420 - [www.minutemanintl.com](http://www.minutemanintl.com)  
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