

# PARTS MANUAL



## **MAYCO SERIES MODEL LS600P CONCRETE PUMP (PERKINS 1104D-44TA DIESEL ENGINE)**

Revision #4 (05/09/25)

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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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#### NOTICE

Specifications and part numbers are subject to change without notice.

## NOTES

[illegible]

# EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

## NOTICE

The contents and part numbers listed in the parts section are subject to change without notice. Multiquip does not guarantee the availability of the parts listed.

## SAMPLE PARTS LIST

| NO. | PART NO. | PART NAME            | QTY. | REMARKS             |
|-----|----------|----------------------|------|---------------------|
| 1   | 12345    | BOLT .....           | 1    | INCLUDES ITEMS W/%  |
| 2%  |          | WASHER, 1/4 IN. .... |      | NOT SOLD SEPARATELY |
| 2%  | 12347    | WASHER, 3/8 IN. ...  | 1    | MQ-45T ONLY         |
| 3   | 12348    | HOSE .....           | A/R  | MAKE LOCALLY        |
| 4   | 12349    | BEARING .....        | 1    | S/N 2345B AND ABOVE |

## NO. Column

**Unique Symbols** — All items with same unique symbol (@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the “Remarks” column.

**Duplicate Item Numbers** — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

## NOTICE

When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

## PART NO. Column

**Numbers Used** — Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at the time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the “Remarks” Column.

## QTY. Column

**Numbers Used** — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the “Remarks” Column.

## REMARKS Column

Some of the most common notes found in the “Remarks” Column are listed below. Other additional notes needed to describe the item can also be shown.

**Assembly/Kit** — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

“INCLUDES ITEMS W/(unique symbol)”

**Serial Number Break** — Used to list an effective serial number range where a particular part is used.

Indicated by:

“S/N XXXXX AND BELOW”

“S/N XXXX AND ABOVE”

“S/N XXXX TO S/N XXX”

**Specific Model Number Use** — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

“XXXXX ONLY”

“NOT USED ON XXXX”

**“Make/Obtain Locally”** — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

**“Not Sold Separately”** — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.



## SUGGESTED SPARE PARTS

### MAYCO SERIES LS600P CONCRETE PUMP

#### LS600P CONCRETE PUMP

##### 1 TO 3 UNITS

| Qty.   | P/N            | Description                       |
|--------|----------------|-----------------------------------|
| 3..... | EM20763.....   | FILTER, FUEL IN-LINE              |
| 3..... | EM167472.....  | FILTER, WATER SEPARATOR           |
| 2..... | EM98206K.....  | KEY, IGNITION SWITCH              |
| 1..... | 515848.....    | CIRCUIT BREAKER, 50 AMP           |
| 1..... | 23284-300..... | FUSE, 30 AMP ATC/ATO              |
| 1..... | EM802378.....  | RELAY, 40 AMP, FAN                |
| 1..... | EM802515.....  | RELAY, 80 AMP, ENGINE<br>PRE-HEAT |
| 1..... | EM98163.....   | SWITCH, PROXIMITY W/<br>CABLE     |
| 1..... | 34507.....     | FUEL CAP W/GAUGE                  |
| 1..... | EM16462.....   | RING AND FELT HOLDER              |
| 4..... | EM98050.....   | CUP PISTON-ORANGE                 |
| 4..... | EM16493.....   | RING, FELT                        |
| 2..... | EM14408.....   | RING, BRONZE                      |
| 2..... | EM16145A.....  | BUSHING, SWING AXLE<br>BRONZE     |
| 1..... | EM168161A..... | RING, ENERGIZER, RUBBER           |
| 1..... | EM168162.....  | RING, STEEL, INSERT               |
| 2..... | EM98065.....   | SEAL, GROOVED, RUBBER             |
| 1..... | EM98022.....   | RING, WEAR                        |
| 2..... | EM14407.....   | O-RING, OILER PLATE               |
| 1..... | EM98021A.....  | WEAR PLATE                        |
| 2..... | EM517700.....  | O-RING, WEAR PLATE                |
| 1..... | EM98033.....   | OILER PLATE W/HOLES               |

#### PERKINS 1104D-44TA DIESEL ENGINE

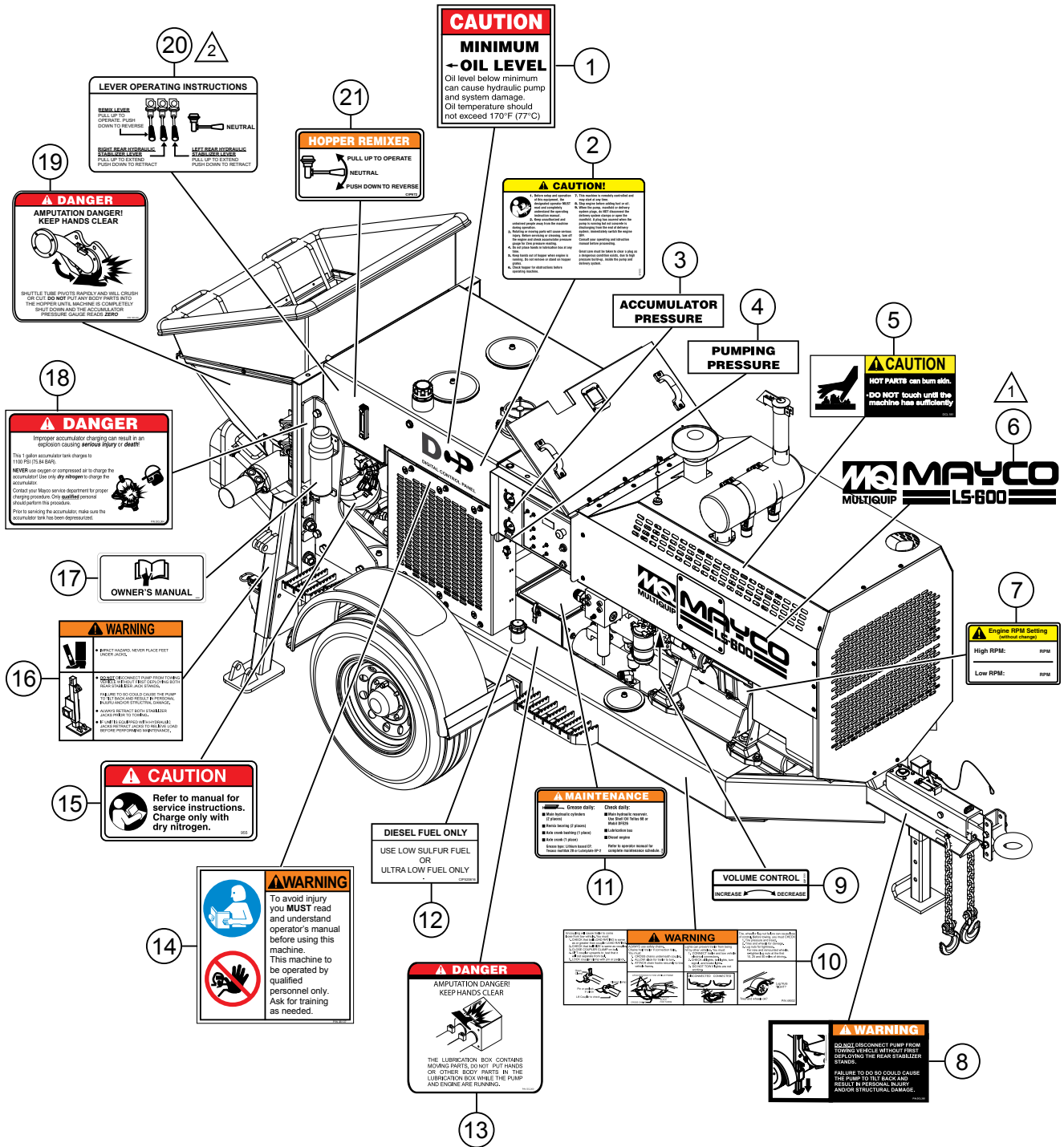
##### 1 to 3 units

| Qty.   | P/N           | Description                           |
|--------|---------------|---------------------------------------|
| 3..... | 2654407.....  | OIL FILTER                            |
| 3..... | 62510380..... | AIR FILTER                            |
| 3..... | 26560201..... | FILTER, FUEL/WATER<br>SEPARATOR       |
| 1..... | 2656F837..... | BOWL, PLASTIC FUEL/WATER<br>SEPARATOR |

#### NOTICE

Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.

## NAMEPLATE AND DECALS ASSY.



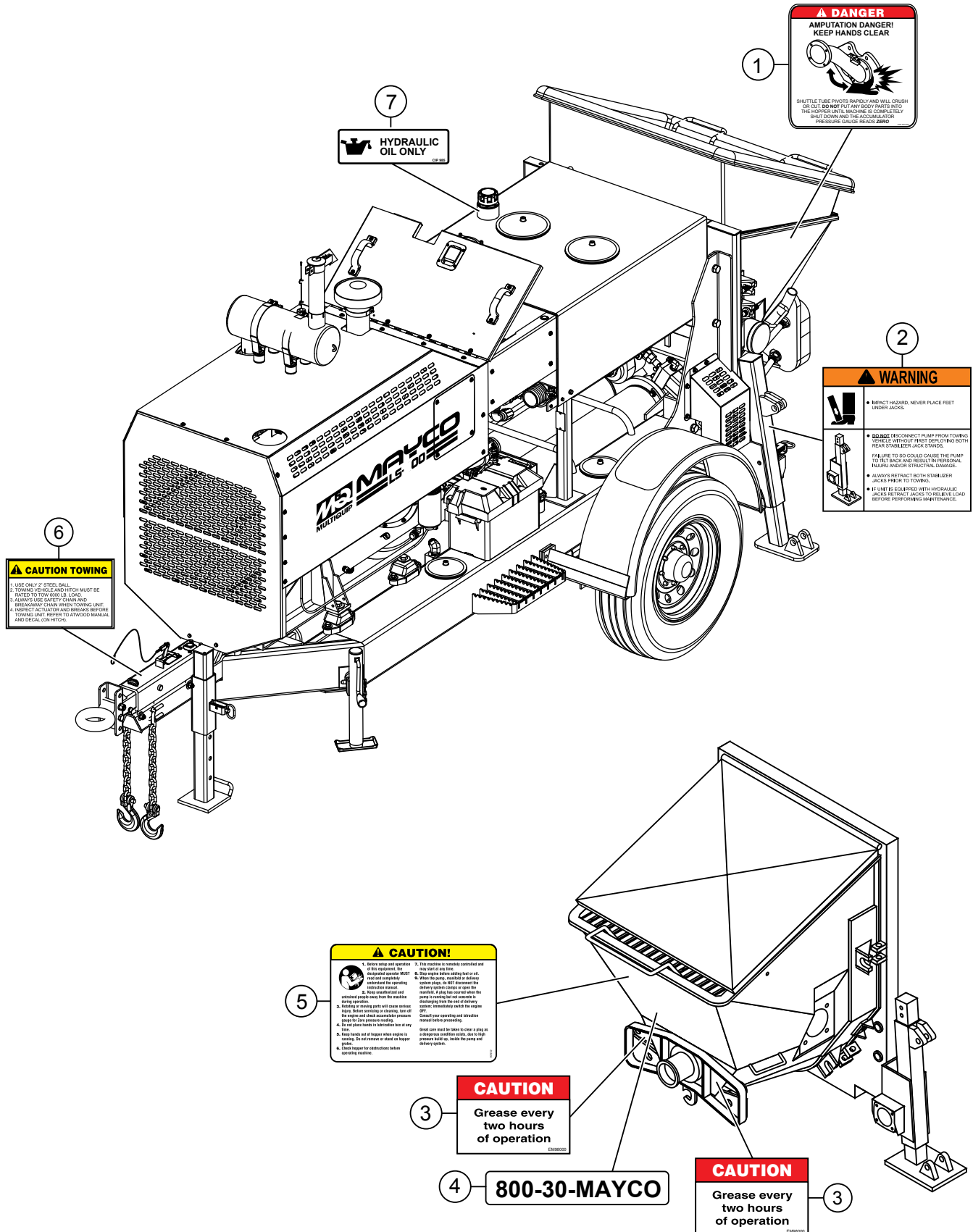
NOTES:

- 1 PLACE DECAL ON LS600 MODELS ONLY.
- 2 USE THIS DECAL (OPTION) WHEN HYDRAULIC STABILIZER JACKS ARE INSTALLED.

## NAMEPLATE AND DECALS ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                    | <u>QTY.</u> | <u>REMARKS</u>     |
|------------|-----------------|-------------------------------------|-------------|--------------------|
| 1          | EM511901        | DECAL, CAUTION MINIMUM OIL LEVEL    | 1           |                    |
| 2          | EM97072         | DECAL, CAUTION OPERATIONS INSTRUCT. | 1           |                    |
| 3%         | EM97070         | DECAL, ACCUMULATOR PRESSURE .....   | 1.....      | INCLUDES ITEM W/\$ |
| 4\$        | EM97070         | DECAL, PUMPING PRESSURE .....       | 1.....      | INCLUDES ITEM W/%  |
| 5          | DCL302          | DECAL, WARNING BURN HAZARD          | 1           |                    |
| 6          | EM517644        | DECAL, MQ/MAYCO LS600 LOGO          | 1           |                    |
| 7          | 513580          | DECAL, ENGINE RPM SETTING           | 1           |                    |
| 8          | DCL305          | DECAL, WARNING REAR STABILIZERS     | 1           |                    |
| 9          | EM985           | DECAL, VOLUMN CONTROL               | 1           |                    |
| 10         | 34627           | DECAL, TOWING, WARNING              | 1           |                    |
| 11         | EM97084         | DECAL, MAINTENANCE                  | 1           |                    |
| 12         | EM995           | DECAL, CAUTION DIESEL FUEL          | 1           |                    |
| 13         | DCL300          | DECAL, LUBRICATION BOX              | 1           |                    |
| 14         | 35137           | DECAL, CAUTION READ MANUAL          | 1           |                    |
| 15         | EM955           | DECAL, CAUTION DRY NITROGEN         | 1           |                    |
| 16         | 518090          | DECAL, WARNING IMPACT HAZARD        | 1           |                    |
| 17         | 34536           | DECAL, OWNER'S MANUAL               | 1           |                    |
| 18         | DCL304          | DECAL, DANGER IMPROPER CHARGING     | 1           |                    |
| 19         | DCL301          | DECAL, DANGER SHUTTLE TUBE          | 1           |                    |
| 20         | 518091          | DECAL, LEVER OPERATING INSTRUCT.    | 1           |                    |
| 21         | EM970           | DECAL, HOPPER REMIXER               | 1           |                    |

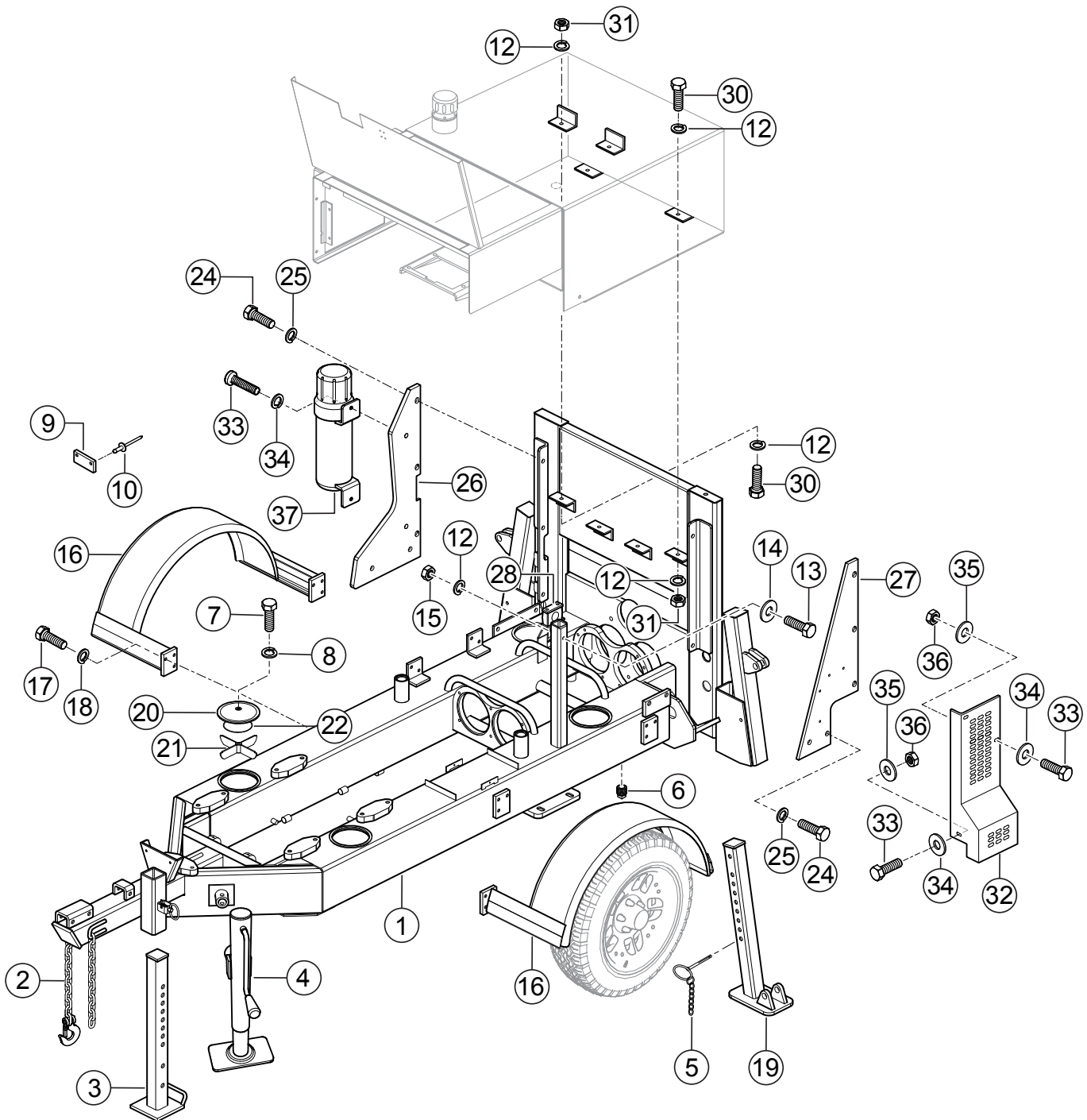
# NAMEPLATE AND DECALS ASSY.



## NAMEPLATE AND DECALS ASSY.

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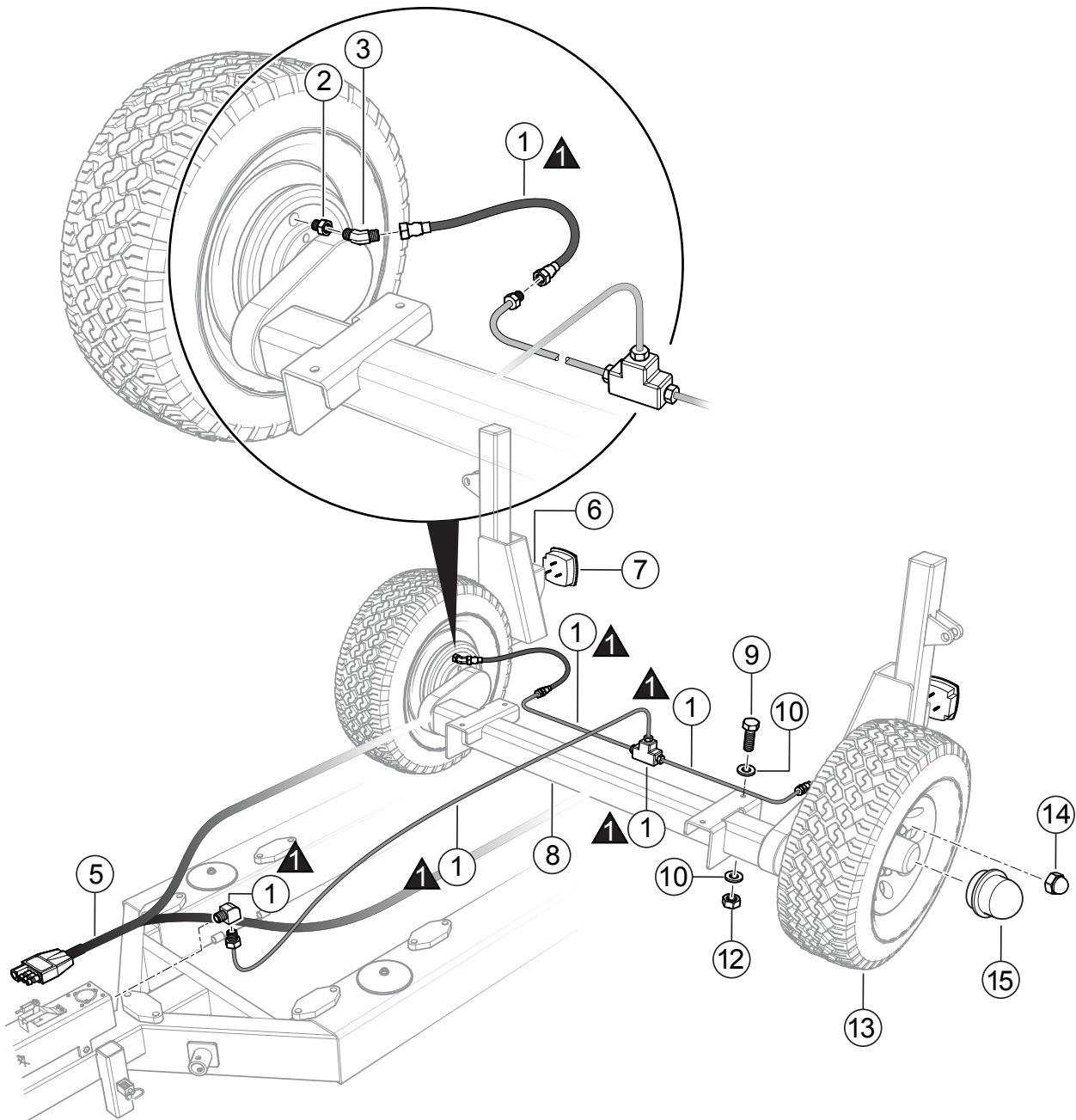
| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                    | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-------------------------------------|-------------|----------------|
| 1          | DCL301          | DECAL, DANGER SHUTTLE TUBE          | 1           |                |
| 2          | 518090          | DECAL, WARNING IMPACT HAZARD        | 1           |                |
| 3          | EM510386        | DECAL, CAUTION-GREASE 2 HOURS       | 2           |                |
| 4          | EM511709        | DECAL, 800-30-MAYCO                 | 1           |                |
| 5          | EM97072         | DECAL, CAUTION OPERATIONS INSTRUCT. | 1           |                |
| 6          | EM969           | DECAL, CAUTION TOWING               | 1           |                |
| 7          | EM985           | DECAL, HYDRAULIC OIL                | 1           |                |



## FRAME ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                    | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-------------------------------------|-------------|----------------|
| 1          | 518906          | FRAME, MAIN                         | 1           |                |
| 2          | EE43513         | CHAIN, TRANSPORT W/HOOK, 3/8" X 42" | 2           |                |
| 3          | EM70186         | JACK STAND, FRONT                   | 1           |                |
| 4          | EM25610         | JACK STAND, SWIVEL, TRAILER         | 1           |                |
| 5          | EM744           | CLEVIS PIN                          | 2           |                |
| 6          | 491214          | PLUG, PIPE                          | 1           |                |
| 7          | 505990          | BOLT, 1/2" X 2-1/2"                 | 6           |                |
| 8          | 520343          | O-RING                              | 6           |                |
| 9          | EM942           | TAG, ALUMINUM                       | 1           |                |
| 10         | EM491744        | RIVET, POP AM-44                    | 2           |                |
| 12         | 0166 A          | WASHER, LOCK 3/8"                   | 5           |                |
| 13         | 503112          | BOLT, 3/8" X 2-3/4"                 | 1           |                |
| 14         | 3019092         | WASHER, 3/8"                        | 2           |                |
| 15         | EM969013        | NUT, 3/8"                           | 1           |                |
| 16         | 517985          | FENDER, BOLT-ON                     | 2           |                |
| 17         | EM504456        | BOLT, 1/2-13 X 3/4" HEX. GRD8       | 12          |                |
| 18         | 6109180         | WASHER, LOCK 1/2"                   | 12          |                |
| 19         | EM517113        | STABILIZER STAND                    | 2           |                |
| 20         | EM800302        | COVER                               | 4           |                |
| 21         | EM800304        | RETAINER                            | 4           |                |
| 22         | EM800303        | O-RING                              | 4           |                |
| 24         | 517124          | BOLT, 3/4" NC X 1" GRD5             | 10          |                |
| 25         | 492628          | WASHER, LOCK 3/4"                   | 10          |                |
| 26         | 517092          | SUPPORT PLATE, RIGHT                | 1           |                |
| 27         | 517095          | SUPPORT PLATE, LEFT                 | 1           |                |
| 28         | EM98048         | CLAMP                               | 1           |                |
| 30         | EM963610        | CAP SCREW, 3/8" NC X 1-1/4" GRD8    | 2           |                |
| 31         | 492542          | NUT, 3/8" NC HEX GRD2               | 2           |                |
| 32         | EM517742        | GUARD, SHUTTLE CYLINDER             | 1           |                |
| 33         | 0202            | SCREW, HHC 5/16-18 X 1" ZN          | 4           |                |
| 34         | EM923023        | WASHER, FLAT 5/16"                  | 8           |                |
| 35         | EM923343        | WASHER, LOCK 5/16"                  | 4           |                |
| 36         | 492541          | NUT, 5/16" NC                       | 4           |                |
| 37         | 23297           | MANUAL HOLDER                       | 1           |                |

## AXLE/BRAKE LINE AND LIGHT ASSY.



NOTE: ▲ MAIN BRAKE LINE KIT

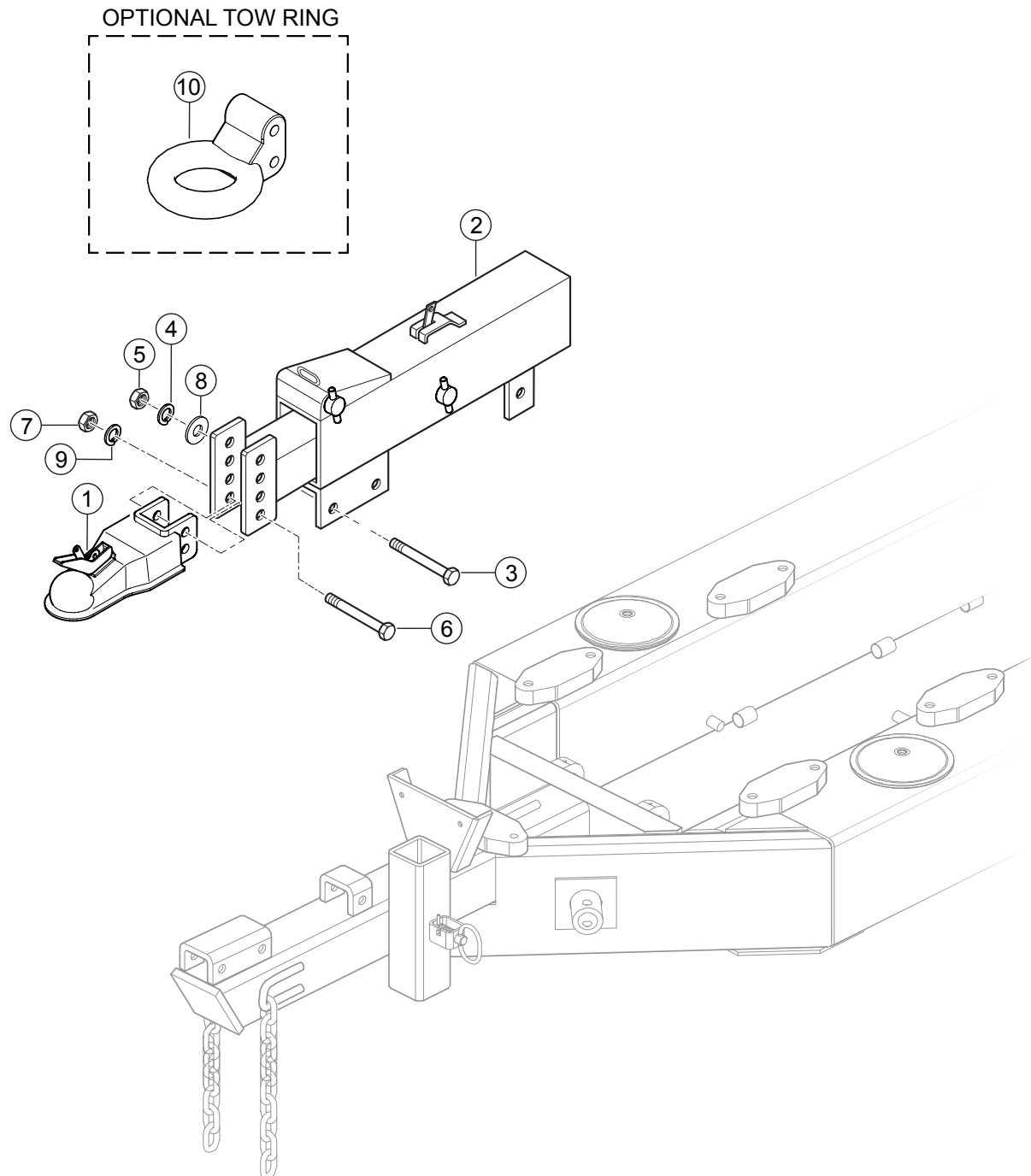


## **AXLE/BRAKE LINE AND LIGHT ASSY.**

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| <b><u>NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>PART NAME</u></b>      | <b><u>QTY.</u></b> | <b><u>REMARKS</u></b> |
|-------------------|------------------------|------------------------------|--------------------|-----------------------|
| 1                 | 34566                  | KIT, MAIN BRAKE LINES        | 1                  |                       |
| 2                 | EM512877               | ADAPTOR, STRAIGHT            | 2                  |                       |
| 3                 | EM512876               | ADAPTOR, ELBOW               | 3                  |                       |
| 5                 | EM515419               | HARNESS, BRAKE LIGHTS        | 1                  |                       |
| 6                 | 517963                 | GUARD, TAIL LIGHT            | 2                  |                       |
| 7                 | 29242                  | LIGHT, TAIL, BRAKE           | 2                  |                       |
| 8                 | EM800863               | AXLE ASSY., TORSION 7000 LBS | 1                  |                       |
| 9                 | EM104                  | BOLT, 5/8-11 X 2" HEX HD     | 4                  |                       |
| 10                | 0401450160             | WASHER, 5/8" FLAT            | 8                  |                       |
| 12                | EM968013               | NUT, HEX 5/8-11              | 4                  |                       |
| 13                | 800684                 | WHEEL, TIRE/RIM 16" 8 LUG    | 2                  |                       |
| 14                | EM26519                | NUT, LUG, CHROME             | 16                 |                       |
| 15                | 801684                 | CAP, GREASE, CHROME          | 2                  |                       |

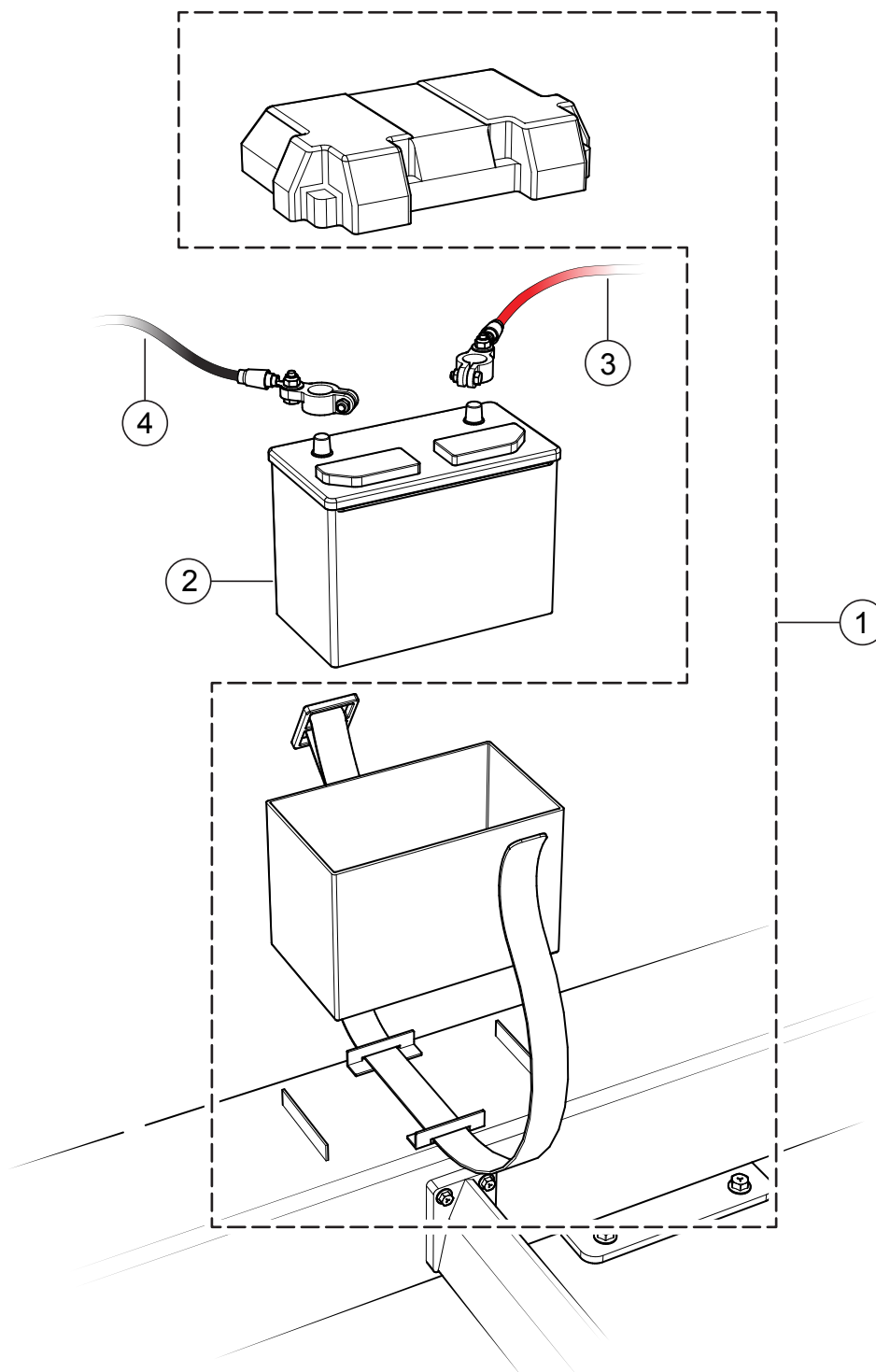
## TRAILER HITCH ASSY.



## TRAILER HITCH ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                             | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|----------------------------------------------|-------------|---------------------|
| 1          | 29228           | COUPLING, 2" BALL, 8000 LBS                  | 1           |                     |
| 1          | EE56638         | COUPLING, 2-5/16" BALL ADJ., 14,500 LBS..... | 1.....      | OPTION              |
| 2          | 19067           | ACTUATOR, BRAKE                              | 1           |                     |
| 3          | 503111          | BOLT, HEX HD 1/2" NC X 4-1/2" GRD5           | 3           |                     |
| 4          | 6109180         | WASHER, LOCK 1/2" .....                      | 3.....      | REPLACES P/N 492626 |
| 5          | EM492584        | NUT, LOCK 1/2"                               | 3           |                     |
| 6          | EM507658        | BOLT, HEX HD 5/8" NC X 4-1/2" GRD5           | 2           |                     |
| 7          | EM492586        | NUT, LOCK 5/8"                               | 2           |                     |
| 8          | 6109170         | WASHER, FLAT 1/2"                            | 2           |                     |
| 9          | EM923348        | WASHER, LOCK 5/8"                            | 2           |                     |
| 10         | 29369           | COUPLER, 3" PINTLE EYE, 14,000 LBS.....      | 1.....      | OPTION              |

## BATTERY BOX ASSY.

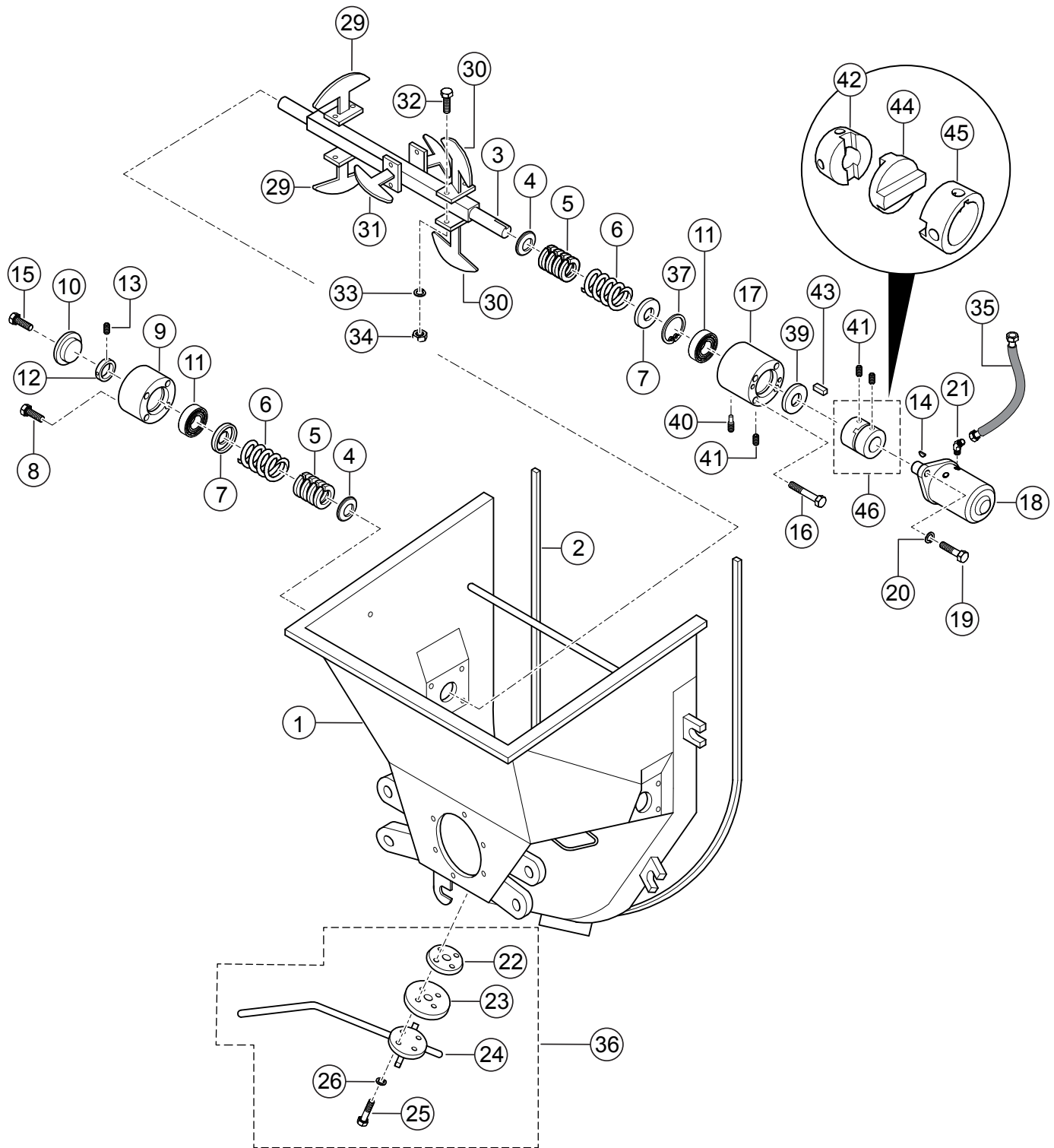


## BATTERY BOX ASSY.

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| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>        | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-------------------------|-------------|----------------|
| 1          | 34506           | BATTERY BOX W/BELT      | 1           |                |
| 2          |                 | BATTERY 12V .....       | 1           | OBTAIN LOCALLY |
| 3          | 800126          | BATTERY CABLE, POSITIVE | 1           |                |
| 4          | 800127          | BATTERY CABLE, NEGATIVE | 1           |                |

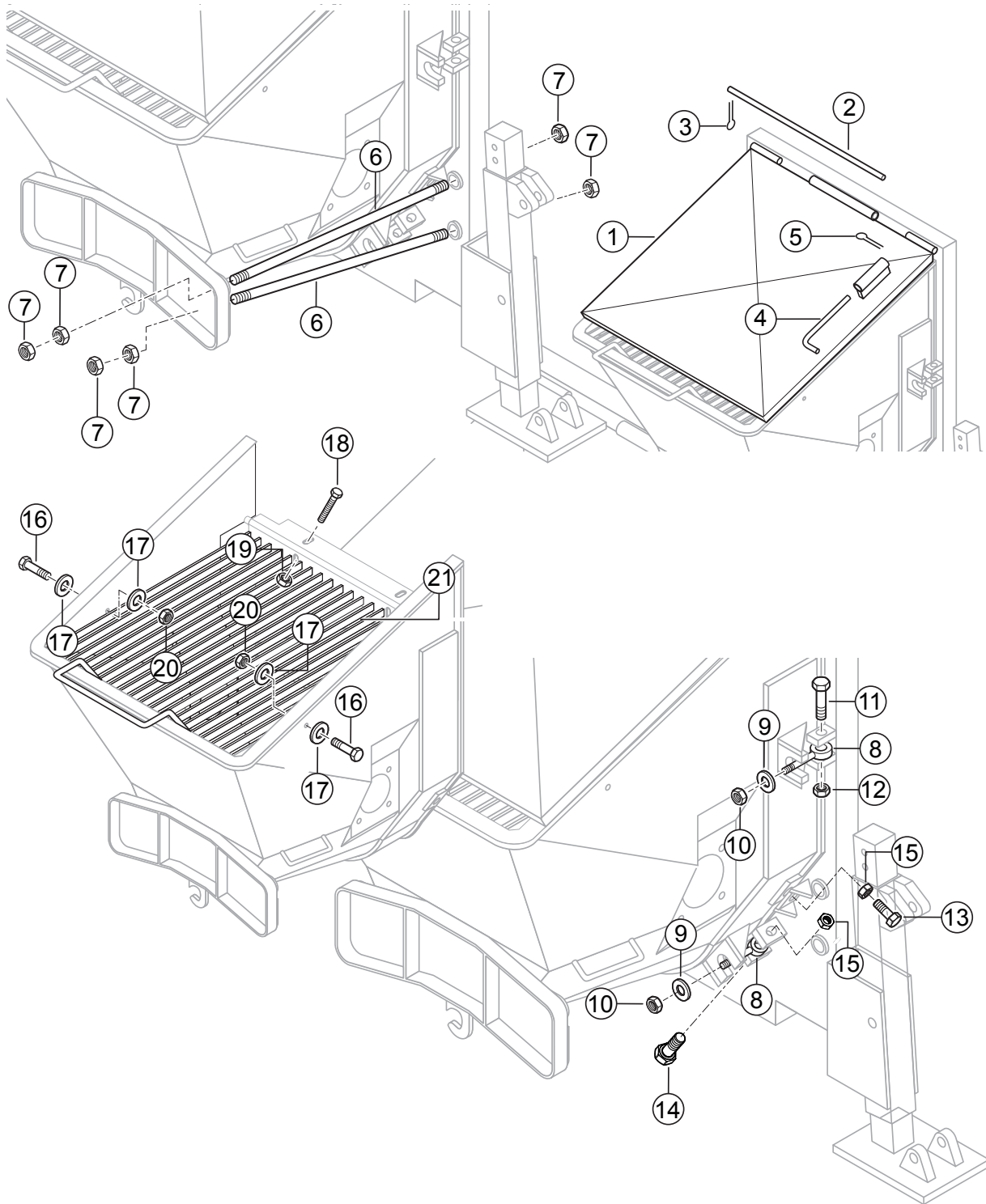
# HOPPER ASSY.



## HOPPER ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                   | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|------------------------------------|-------------|---------------------|
| 1          | EM515980        | HOPPER ASSY.                       | 1           |                     |
| 2          | EM16184         | HOPPER SEAL                        | 1           |                     |
| 3          | 802873          | REMIXER SHAFT                      | 1           |                     |
| 4          | EM200303        | FOLLOWER RING                      | 2           |                     |
| 5          | EM200301        | RING, PACKING                      | 8           |                     |
| 6          | EM516820        | COMPRESSION SPRING                 | 2           |                     |
| 7          | EM514339        | HOPPER SPRING SEAT                 | 2           |                     |
| 8          | EM510717        | BOLT, 1/2" X 1-3/4"                | 4           |                     |
| 9          | EM514338        | SUPPORT, LEFT                      | 1           |                     |
| 10         | EM514706        | END CAP, SHAFT SUPT.               | 1           |                     |
| 11         | EM902153        | BEARING                            | 2           |                     |
| 12         | EM200018        | SET COLLAR                         | 1           |                     |
| 13         | EM703           | SET SCREW                          | 2           |                     |
| 14         | EM500264        | KEY, 3/8" X 30MM                   | 1           |                     |
| 15         | 520467          | BOLT, 5/16"NF X 1" GRD 8.8         | 4           |                     |
| 16         | 511427          | SCREW, 1/2-13 X 3" ALLEN HD        | 4           |                     |
| 17         | EM516780        | HOUSING                            | 1           |                     |
| 18         | EM98108         | MOTOR, REMIX                       | 1           |                     |
| 19         | 505989          | SCREW, SOCKET 1/2-13 X 1-1/4" GRD5 | 2           |                     |
| 20         | 6109180         | WASHER, LOCK 1/2"                  | 2           |                     |
| 21         | EM25508         | ADAPTER, FITTING                   | 2           |                     |
| 22\$       | EM708601        | PISTON CUP HOLDER                  | 1           |                     |
| 23\$       | EM50417         | PISTON CUP                         | 1           |                     |
| 24\$       | EM508830        | HANDLE                             | 1           |                     |
| 25\$       | 492378          | BOLT, 3/8" X 1-3/4"                | 4           |                     |
| 26\$       | 0166 A          | WASHER, LOCK 3/8"                  | 4           |                     |
| 29         | EM514031        | PADDLE ARM, END                    | 2           |                     |
| 30         | EM514032        | PADDLE ARM, MOTOR END              | 2           |                     |
| 31         | EM514033        | PADDLE ARM, CENTER                 | 2           |                     |
| 32         | EM963110        | BOLT, HX HD 1/2-13 X 3-1/4"        | 6           |                     |
| 33         | 6109180         | WASHER, LOCK 1/2"                  | 6           |                     |
| 34         | 492589          | NUT, HEX 1/2"                      | 6           |                     |
| 36         | EM70860         | HOPPER CLEANOUT PLUG ASSY.....     | 1           | INCLUDES ITEMS W/\$ |
| 37         | EM490985        | RETAINING RING                     | 1           |                     |
| 39         | EM516799        | SPACER, 6MM                        | 1           |                     |
| 40         | EM702           | SET SCREW, DOG POINT 3/8"          | 1           |                     |
| 41%        | EM703           | SET SCREW, 3/8"                    | 3           |                     |
| 42%        |                 | REMIX SHAFT COUPLER .....          | 1           | NOT SOLD SEPARATELY |
| 43         | EM500264        | SQUARE KEY, 3/8" X 30MM            | 1           |                     |
| 44%        |                 | DRIVE MEMBER COUPLER.....          | 1           | NOT SOLD SEPARATELY |
| 45%        |                 | MOTOR SHAFT COUPLER.....           | 1           | NOT SOLD SEPARATELY |
| 46         | 802590          | COUPLER ASSY.....                  | 1           | INCLUDES ITEMS W/%  |

## HOPPER ATTACHMENT ASSY.

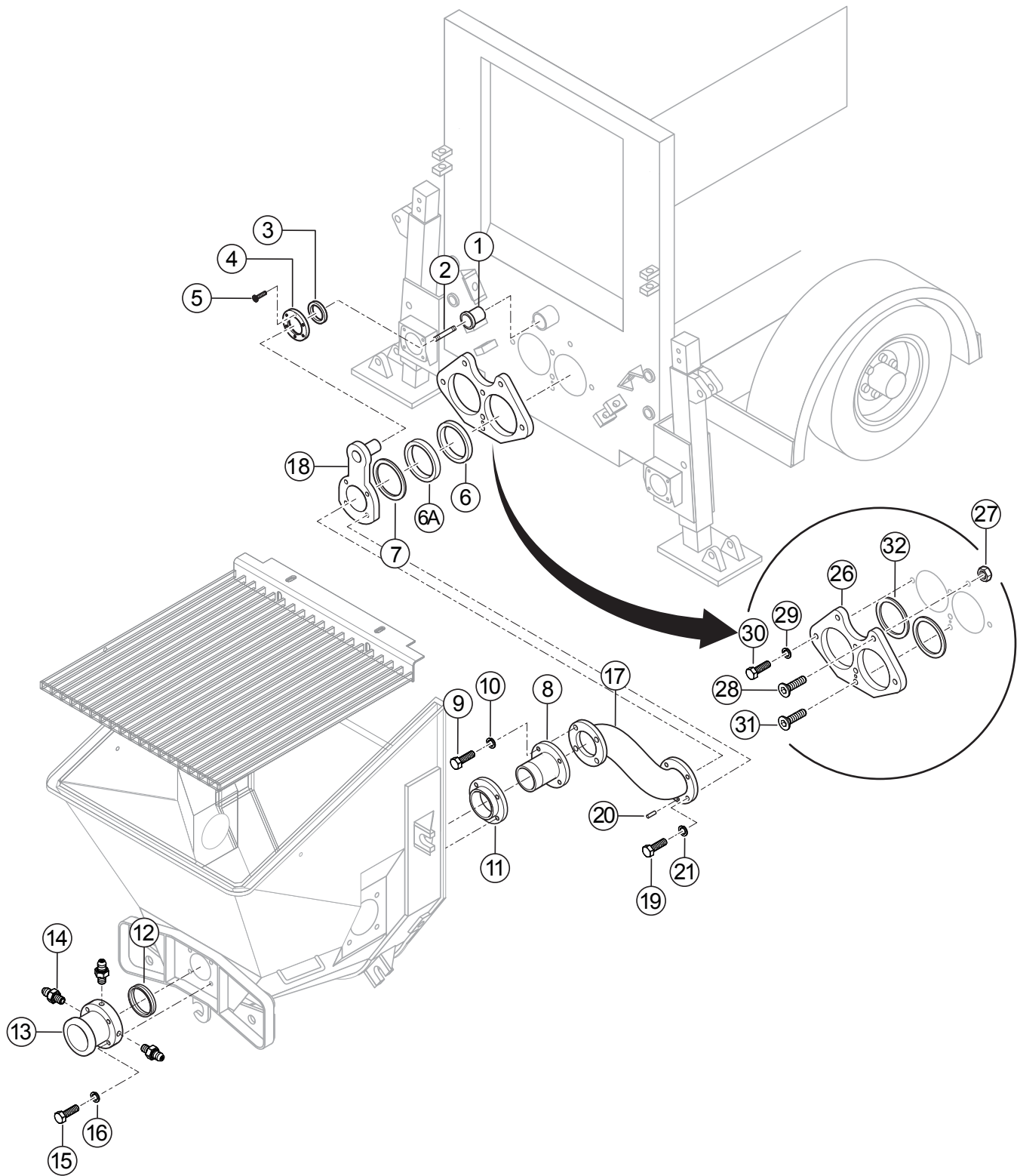




## HOPPER ATTACHMENT ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>           | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|----------------------------|-------------|---------------------|
| 1          | EM514204        | SPLASH PLATE               | 1           |                     |
| 2          | EM514620        | HINGE PIN                  | 1           |                     |
| 3          | EM491686        | COTTER PIN, 1/8" X 1-1/2"  | 1           |                     |
| 4          | EM70134-2       | PIN, SPLASH PLATE          | 1           |                     |
| 5          | EM505723        | COTTER PIN, 5/32" X 1-1/2" | 1           |                     |
| 6          | EM16166         | TIE ROD                    | 4           |                     |
| 7          | EM424           | NUT, HEX HD 1" NC .....    | 12          | REPLACES P/N 505728 |
| 8          | EM14165         | EYE BOLT, 3/4"             | 4           |                     |
| 9          | EM619           | O-RING, 3/4"               | 4           |                     |
| 10         | EM968446        | NUT, HEX 3/4"              | 4           |                     |
| 11         | 505121          | BOLT, 3/4" X 3"            | 4           |                     |
| 12         | EM968446        | NUT, HEX 3/4"              | 4           |                     |
| 13         | 505123          | BOLT, HEX HD 1/2" X 2-1/2" | 2           |                     |
| 14         | 492491          | BOLT, HEX HD 1/2" X 1-1/2" | 1           |                     |
| 15         | 6109160         | NUT, HEX 1/2"              | 3           |                     |
| 16         | 492379          | SCREW, CAP 3/8"            | 2           |                     |
| 17         | 3019092         | WASHER, FLAT 3/8"          | 4           |                     |
| 18         | 515395          | BOLT, 7/16" NC X 4" GRD5   | 2           |                     |
| 19         | 492584          | NUT, LOCK 1/2"             | 2           |                     |
| 20         | EM969013        | NUT, NYLOC                 | 2           |                     |
| 21         | EM514357        | HOPPER SCREEN              | 1           |                     |

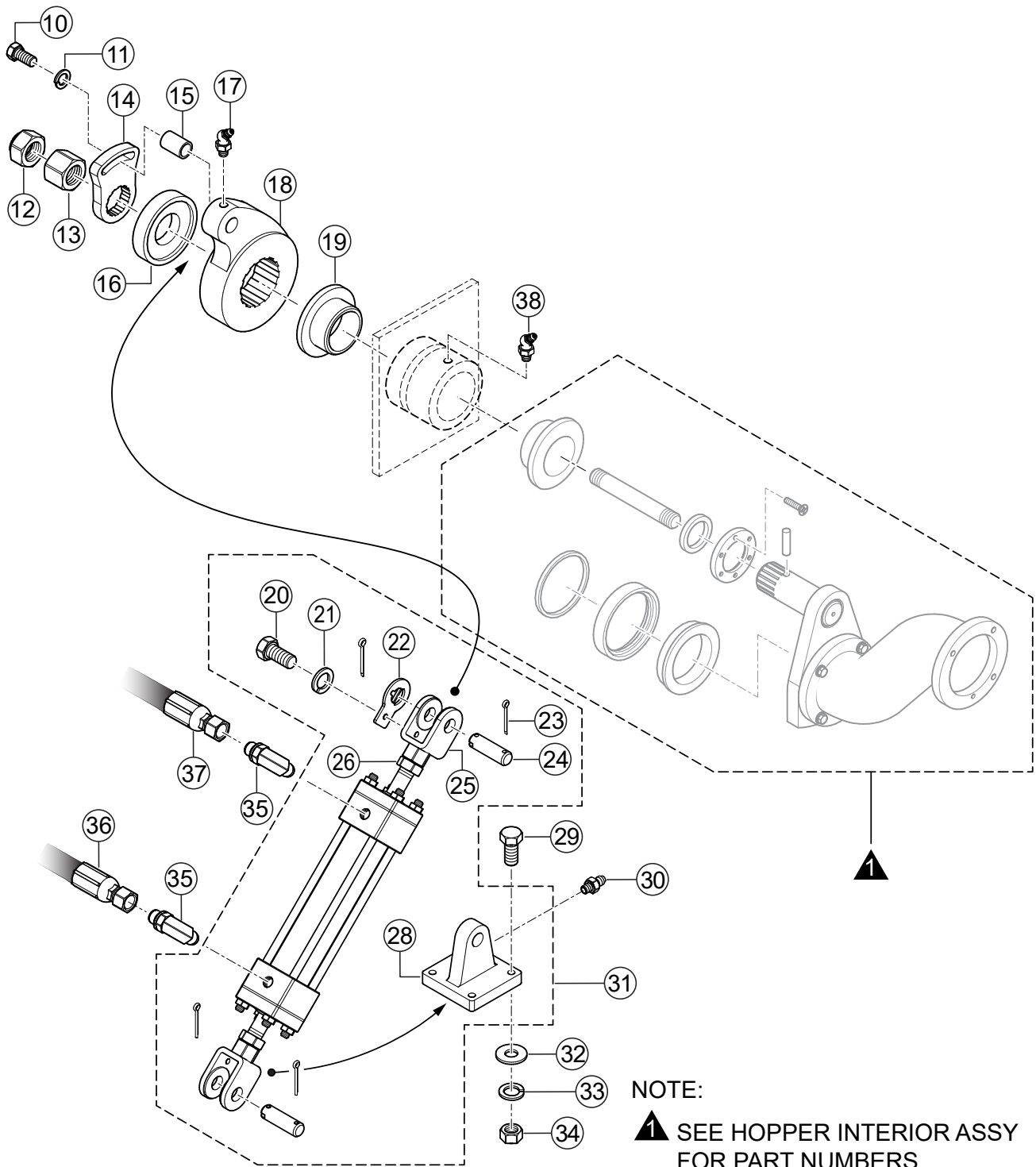
## HOPPER INTERIOR ASSY.



## HOPPER INTERIOR ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>               | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|--------------------------------|-------------|----------------|
| 1          | EM800609        | BUSHING, HOPPER SIDE           | 1           |                |
| 2          | EM284           | STUD, 1-14 X 5" GRD 8          | 1           |                |
| 3          | 800426          | RUBBER SEAL                    | 1           |                |
| 4          | 800427          | RETAINER PLATE                 | 1           |                |
| 5          | 506176          | BOLT, 5/16-18 X 1" FHAS        | 6           |                |
| 6          | EM98022         | WEAR RING HF                   | 1           |                |
| 6A         | EM168161A       | RING, ENERGIZER RUBBER         | 1           |                |
| 7          | EM168162        | RING, INSERT STEEL             | 1           |                |
| 8          | EM16804         | SLEEVE 5"                      | 1           |                |
| 9          | EM104           | BOLT, 5/8" X 2"                | 4           |                |
| 10         | EM923348        | WASHER, LOCK 5/8"              | 4           |                |
| 11         | EM25803         | BEARING, DISCHARGE PLATE       | 1           |                |
| 12         | EM98065         | SEAL, GROOVED RUBBER           | 1           |                |
| 13         | EM512212        | DISCHARGE NIPPLE               | 1           |                |
| 14         | 491701          | GREASE FITTING                 | 3           |                |
| 15         | EM210           | BOLT, 5/8" X 2"                | 6           |                |
| 16         | 6109180         | WASHER, 1/2"                   | 6           |                |
| 17         | EM16811         | SHUTTLE CYLINDER               | 1           |                |
| 18         | EM25843         | NUN PLATE                      | 1           |                |
| 19         | EM104           | BOLT, HEX HD 5/8" X 2"         | 4           |                |
| 20         | 419719          | PIN                            | 1           |                |
| 21         | EM923348        | WASHER, LOCK 5/8"              | 4           |                |
| 26         | EM98021A        | WEAR PLATE, ONE SIDED          | 1           |                |
| 27         | EM968013        | NUT, HEX 5/8-11 BRT. FIN.      | 2           |                |
| 28         | EM265           | BOLT, 5/8-11 X 3" COUNTER SUNK | 2           |                |
| 29         | 492628          | WASHER, LOCK 3/4"              | 2           |                |
| 30         | EM151           | BOLT, HEX HD 3/4-10 X 2"       | 2           |                |
| 31         | EM264           | BOLT, 1/2-13 X 3"              | 1           |                |
| 32         | EM517700        | O-RING                         | 2           |                |

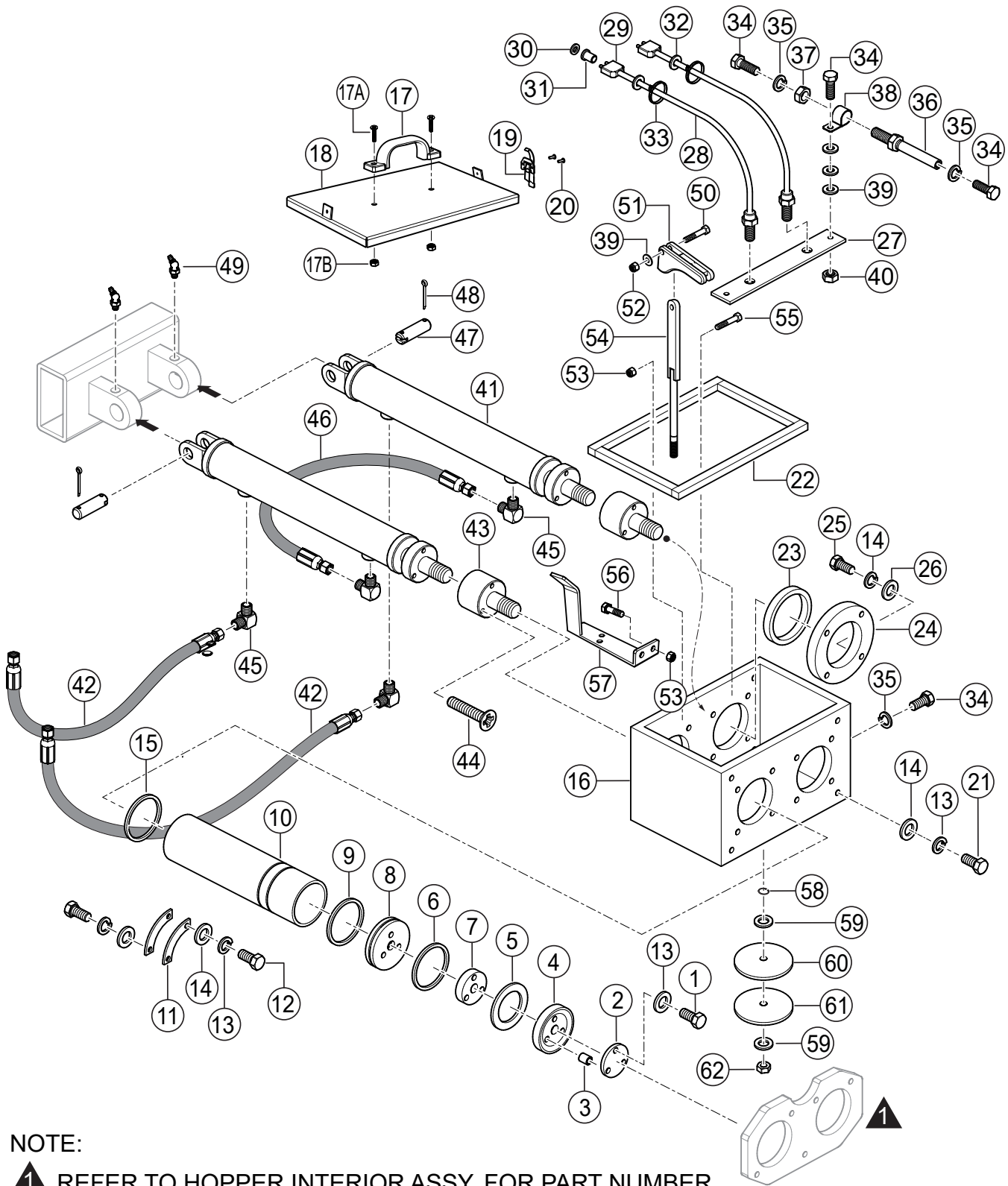
# SHUTTLE CYLINDER ASSY.



## SHUTTLE CYLINDER ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>             | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|------------------------------|-------------|----------------|
| 10         | EM963692        | BOLT, 1/2" UNC X 1-1/2"      | 1           |                |
| 12         | EM417           | NUT, FLEX LOCK 1-14NF GRD 5  | 1           |                |
| 13         | EM509221        | NUT, 1-14UNF, GRD 5          | 1           |                |
| 14         | 518555          | CRANK ARM NUT LOCK           | 1           |                |
| 15         | 518556          | BUSHING, CRANK ARM           | 1           |                |
| 16         | EM16814         | SHUTTLE TENSIONER            | 1           |                |
| 17         | EM50449         | FITTING ELBOW                | 1           |                |
| 18         | 510514          | SHUTTLE CRANK, SPLINED SHAFT | 1           |                |
| 19         | EM16145A        | BUSHING, SWING AXLE          | 1           |                |
| 20\$       | 492363          | BOLT, 5/16" NC X 3/4" GRD 5  | 1           |                |
| 21\$       | EM923343        | WASHER, LOCK 5/16"           | 1           |                |
| 22\$       | 802009          | LOCK                         | 1           |                |
| 23\$       | EM924008        | COTTER PIN, 1/8" X 1-1/2"    | 4           |                |
| 24\$       | 521139          | WRIST PIN                    | 2           |                |
| 25\$       | 521141          | FEMALE CLEVIS                | 1           |                |
| 26\$       | 515249          | NUT, JAM 1-14                | 2           |                |
| 28\$       | EM254549        | PIVOT BRACKET                | 1           |                |
| 29         | 492397          | SCREW, 1/2"NC X 2-1/2" GRD 5 | 4           |                |
| 30         | EM505490        | GREASE FITTING               | 2           |                |
| 31         | EM98106CU       | CYLINDER SHUTTLE ASSY.       | 1           |                |
| 32         | EM621           | WASHER, 1/2"                 | 4           |                |
| 33         | 6109180         | WASHER, LOCK 1/2"            | 4           |                |
| 34         | 492584          | NUT, LOCK 1/2"NC             | 4           |                |
| 35         | 3322            | FITTING, 90° 10MJ-10MO       | 2           |                |
| 36         | 802797          | HOSE, HYDRAULIC              | 1           |                |
| 37         | 802798          | HOSE, HYDRAULIC              | 1           |                |
| 38         | EM510684        | GREASE FITTING               | 1           |                |

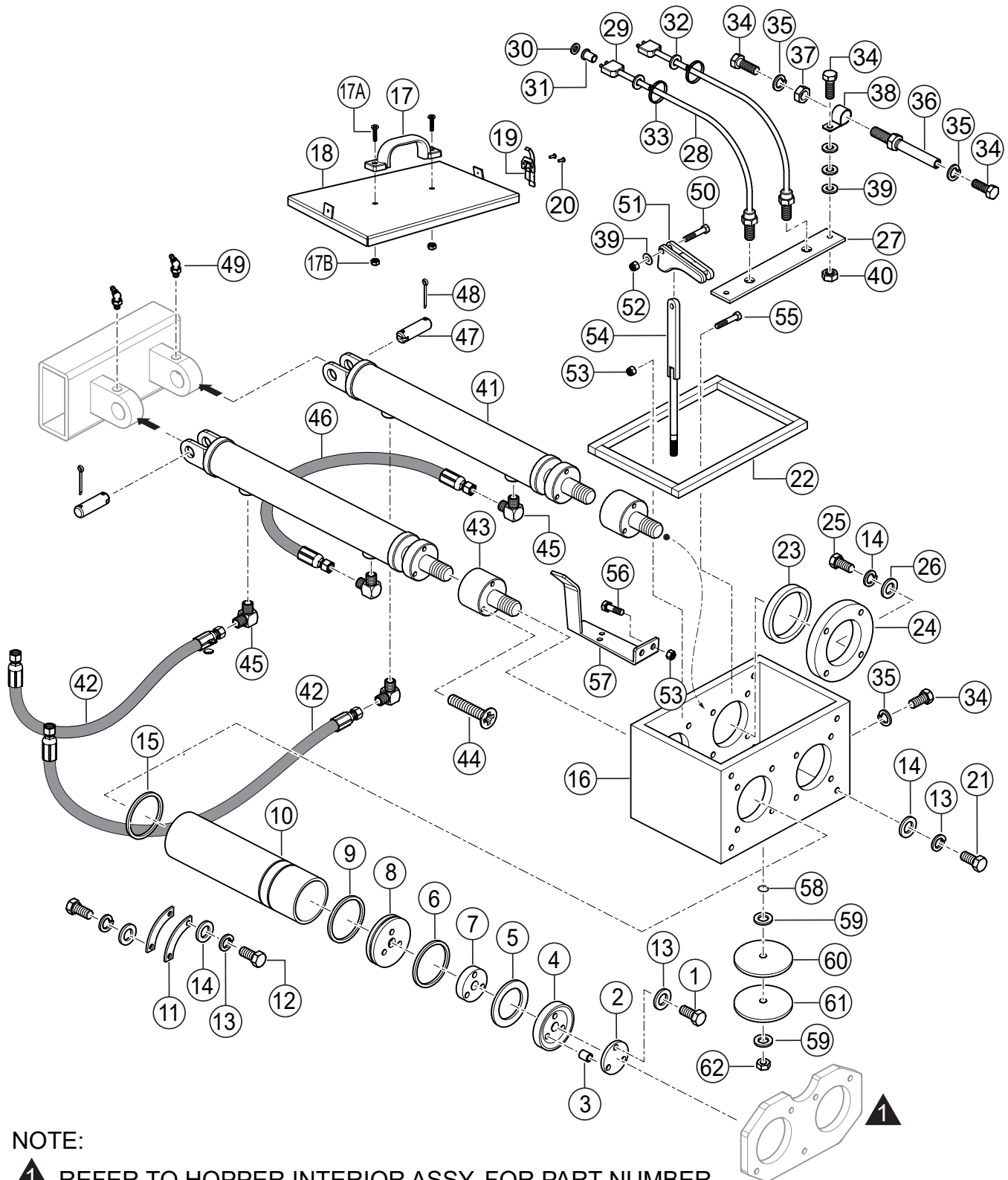
# LUBRICATION PISTONS ASSY.



## LUBRICATION PISTONS ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                  | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-----------------------------------|-------------|----------------|
| 1          | 510265          | BOLT, HX HD 3/8"NC X 3-1/2" GRD 8 | 6           |                |
| 2          | EM16454         | FACE PLATE                        | 2           |                |
| 3          | EM16465         | PISTON CUP SPACER                 | 6           |                |
| 4          | EM98050         | CUP, PISTON-ORANGE                | 2           |                |
| 5          | EM14408         | RING, BRONZE                      | 2           |                |
| 6          | EM16493         | RING, FELT                        | 2           |                |
| 7          | EM16462         | FELT HOLDER                       | 2           |                |
| 8          | EM98033         | OILER PLATE W/HOLES               | 2           |                |
| 9          | EM14407         | O-RING, OILER PLATE               | 2           |                |
| 10         | EM25801         | CYLINDER, CONCRETE                | 2           |                |
| 11         | EM25110         | RETAINER, CYLINDER                | 4           |                |
| 12         | EM963610        | CAP SCREW, 3/8"NC X 1-1/4" GRD 8  | 8           |                |
| 13         | 0166 A          | WASHER, LOCK 3/8"                 | 20          |                |
| 14         | 3019092         | WASHER, FLAT 3/8"                 | 22          |                |
| 15         | EM16174         | O-RING, A440                      | 2           |                |
| 16         | 802761          | LUBRICATION BOX                   | 1           |                |
| 17         | 802751          | HANDLE, PLASTIC                   | 1           |                |
| 17A        | 513312          | BOLT, 1/4" X 1"                   | 2           |                |
| 17B        | 492581          | NUT, 1/4-20 NYLON LOCK            | 2           |                |
| 18         | 802997          | COVER, LUBRICATION BOX            | 1           |                |
| 19         | EM514610        | LATCH, COVER                      | 1           |                |
| 20         | 491754          | RIVET, AM-66                      | 4           |                |
| 21         | 492378          | BOLT, 3/8"NC X 1-3/4"             | 6           |                |
| 22         | 800033          | SEAL, SQUARE                      | 1           |                |
| 23         | EM274351        | SEAL, LUBE BOX                    | 2           |                |
| 24         | EM50425         | FLANGE, RING                      | 2           |                |
| 25         | 492451          | BOLT, 3/8-24 X 1"                 | 8           |                |
| 26         | EM50443         | SEAL, OIL BOX                     | 8           |                |
| 27         | EM514208        | BAR, PROXIMITY SWITCH SUPPORT     | 2           |                |
| 28         | EM98163         | SWITCH, PROXIMITY W/CABLE         | 2           |                |
| 29         | EM98135         | HOUSING, FEMALE                   | 2           |                |
| 30         | EM98134         | SEAL, CONNECTOR HOUSING           | 6           |                |
| 31         | EM98138         | TERMINAL PIN, FEMALE              | 6           |                |
| 32         | 514611          | GROMMET                           | 2           |                |
| 33         | EM504505        | TIE WRAP                          | 8           |                |
| 34         | 492303          | SCREW, 5/16-18 X 1-1/4"           | 6           |                |
| 35         | EM923343        | WASHER, LOCK 5/16"                | 6           |                |
| 36         | EM514216        | ADJUSTMENT ROD, PROX. SWITCH      | 2           |                |
| 37         | 6109160         | NUT, HEX 1/2"                     | 4           |                |
| 38         | EM514207        | BRACKET, ADJUSTMENT ROD           | 2           |                |
| 39         | 923023          | WASHER, FLAT 5/16"                | 7           |                |
| 40         | 2105164         | NUT, 5/16"                        | 2           |                |

# LUBRICATION PISTONS ASSY. (CONT'D.)



NOTE:

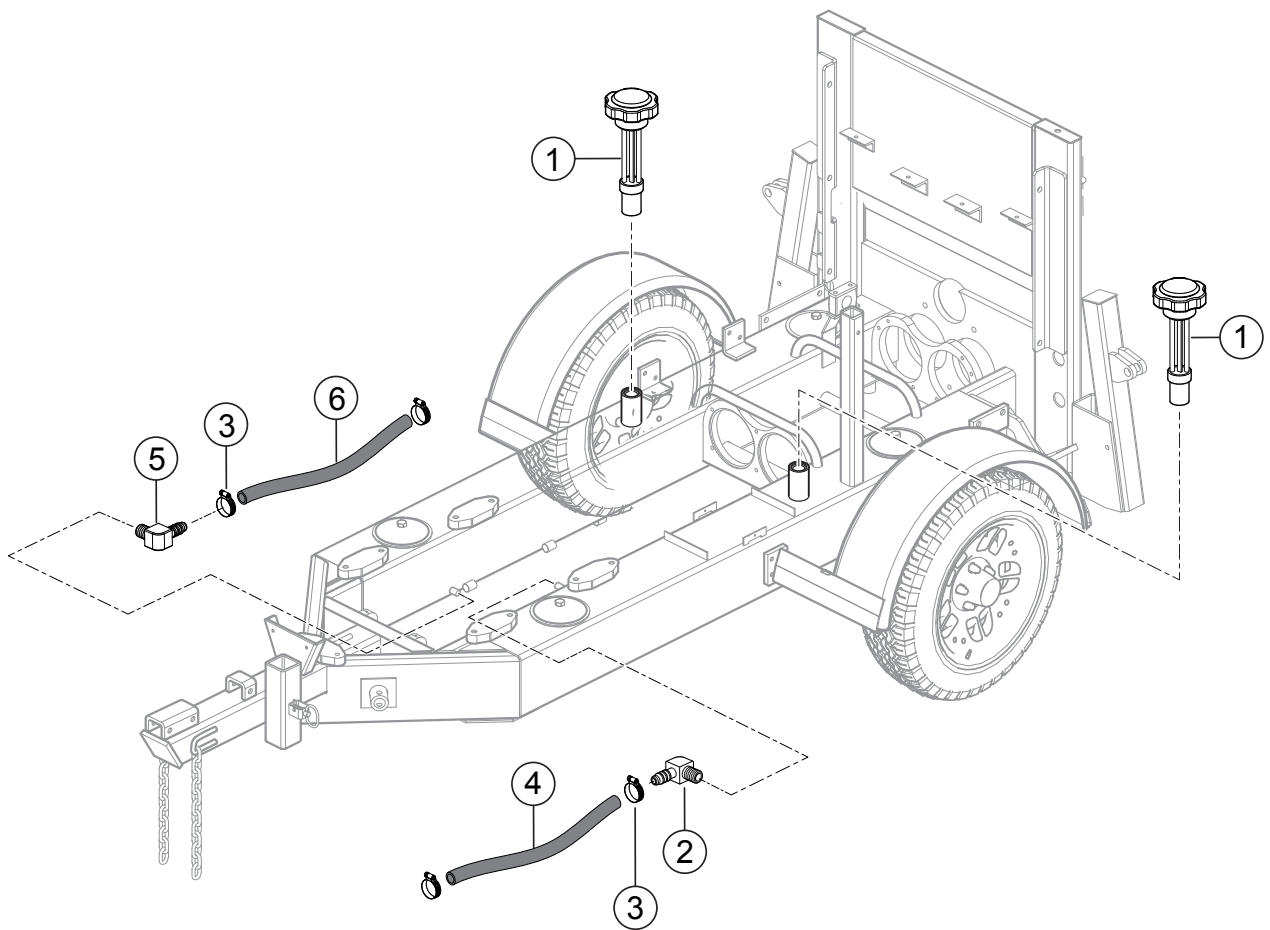
**1** REFER TO HOPPER INTERIOR ASSY. FOR PART NUMBER



## LUBRICATION PISTONS ASSY. (CONT'D.)

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>              | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-------------------------------|-------------|----------------|
| 41         | EM98211         | CYLINDER, HYDRAULIC, MAIN     | 2           |                |
| 42         | EM514920        | HOSE, HYDRAULIC, MAIN CYL.    | 2           |                |
| 43         | EM514202        | EXTENSION SPACER              | 2           |                |
| 44         | EM185           | BOLT, SOCKET HEAD 3/8-16 X 3" | 6           |                |
| 45         | EM25497         | FITTING, 90°                  | 4           |                |
| 46         | 514067          | HOSE, HYDRAULIC SLAVE         | 1           |                |
| 47         | EM16459         | PIN, WRIST                    | 2           |                |
| 48         | EM505723        | PIN, COTTER                   | 4           |                |
| 49         | EM491701        | FITTING, GREASE               | 2           |                |
| 50         | 492379          | SCREW, CAP 3/8"               | 1           |                |
| 51         | 802678          | LEVER, RELEASE                | 1           |                |
| 52         | EM969013        | NUT, NYLOK 3/8"NC             | 1           |                |
| 53         | 2105164         | NUT, NYLOK 5/16-18            | 1           |                |
| 54         | 802677          | PLUNGER, ROD                  | 1           |                |
| 55         | 2105162         | BOLT, 5/16"NC X 1-3/4" GRD 5  | 2           |                |
| 56         | 0202            | SCREW, HHC 5/16-18 X 1" ZN    | 2           |                |
| 57         | 802850          | BRACKET, HOSE                 | 1           |                |
| 58         | 802955          | RETAINING RING                | 1           |                |
| 59         | 492599          | WASHER, 1/2"                  | 2           |                |
| 60         | 802682          | RUBBER SEAL                   | 1           |                |
| 61         | 802681          | SEAL PLATE                    | 1           |                |
| 62         | 492584          | NUT, LOCK 1/2"                | 1           |                |

# FUEL TANK ASSY.

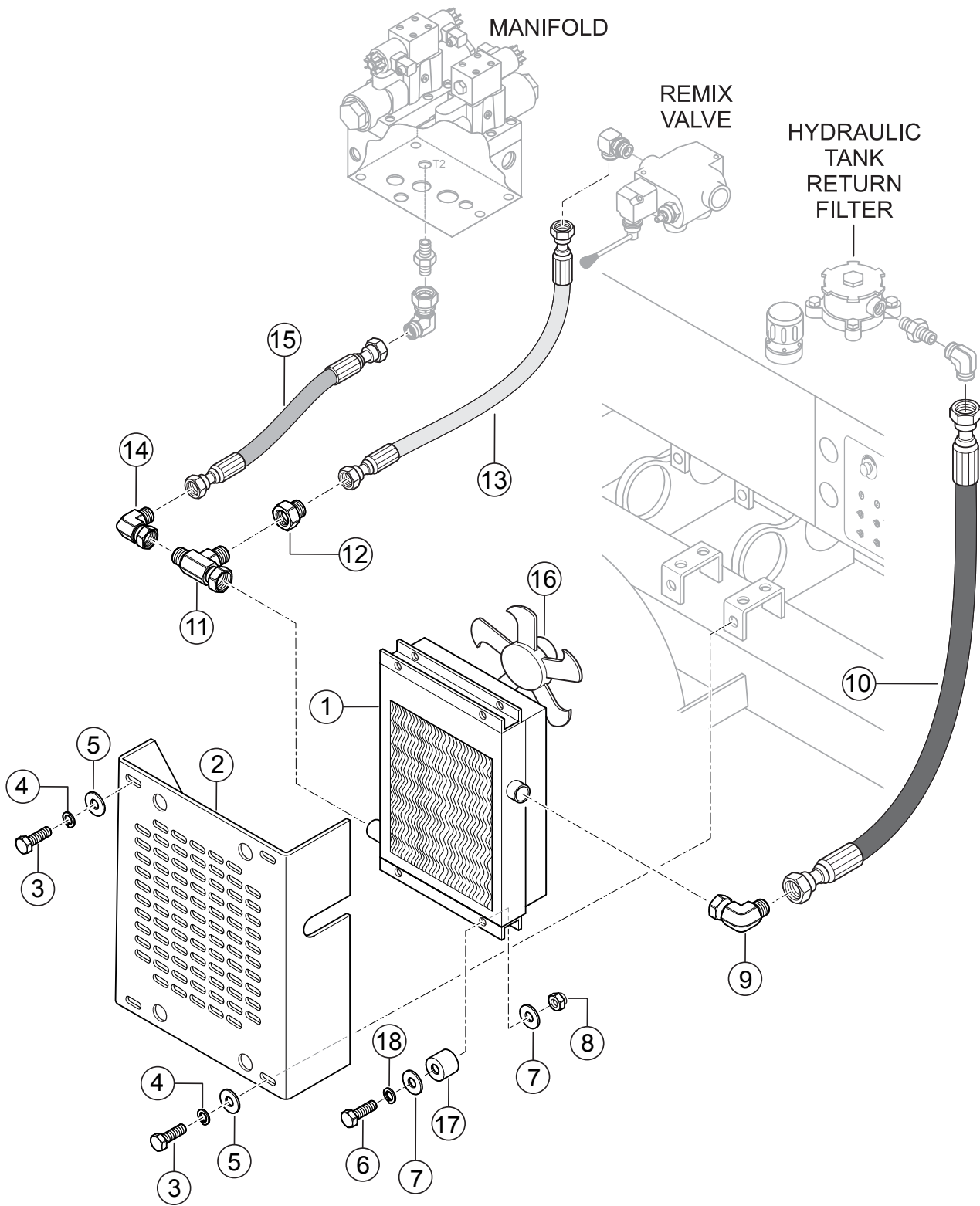


## **FUEL TANK ASSY.**

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| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>              | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-------------------------------|-------------|----------------|
| 1          | 34507           | FUEL CAP W/GAUGE              | 2           |                |
| 2          | EM514559        | ELBOW, ADAPTER 90° MALE       | 1           |                |
| 3          | 506208          | CLAMP                         | 4           |                |
| 4          | EM514536        | HOSE, FUEL RETURN 5/16" ..... | A/R.....    | 1 PC. =1 FT.   |
| 5          | EM20426         | ELBOW, BRASS 1/4" X 1/4" H    | 1           |                |
| 6          | EM20427         | HOSE, 1/4" FUEL .....         | A/R.....    | 1 PC. =1 FT.   |

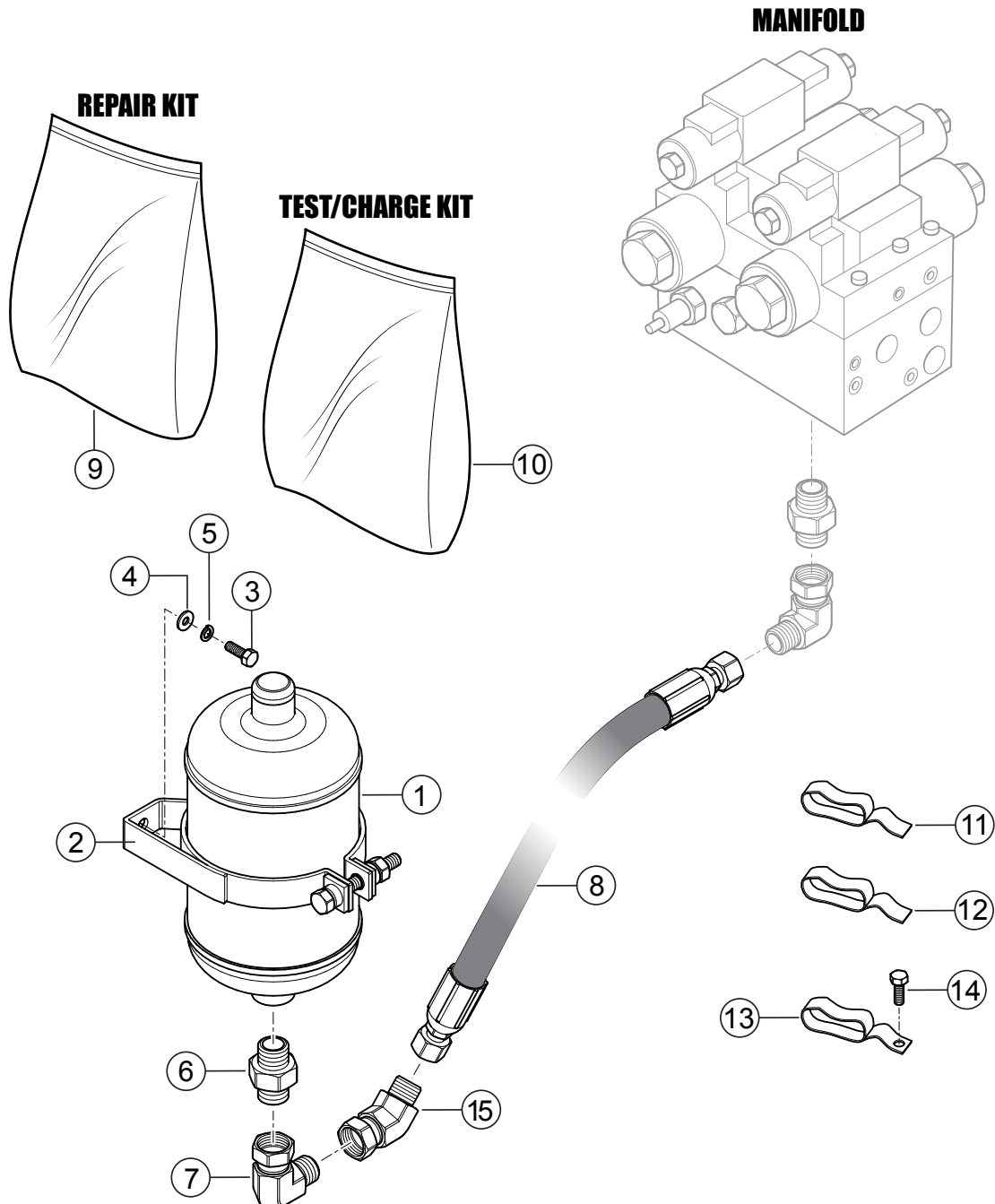
# HEAT EXCHANGER ASSY.



## HEAT EXCHANGER ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                  | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-----------------------------------|-------------|----------------|
| 1          | EM518993        | HEAT EXCHANGER ASSY.              | 1           |                |
| 2          | EM519002        | COVER, HEAT EXCHANGER             | 1           |                |
| 3          | EM963610        | CAP SCREW, 3/8" NC X 1-1/4" GRD 8 | 4           |                |
| 4          | 0166 A          | WASHER, LOCK 3/8"                 | 4           |                |
| 5          | 3019092         | WASHER, FLAT 3/8"                 | 4           |                |
| 6          | EM492366        | BOLT 5/16 X 1-1/2"                | 4           |                |
| 7          | EM923023        | WASHER, FLAT 5/16"                | 8           |                |
| 8          | 2105164         | NUT 5/16"                         | 4           |                |
| 9          | EM25497         | FITTING                           | 1           |                |
| 10         | EM514607        | HOSE 4000 PSI                     | 1           |                |
| 11         | EM25566         | TEE 1", O-RING HYD. FITTING       | 1           |                |
| 12         | EM509345        | FITTING                           | 1           |                |
| 13         | EM514606        | HOSE, 2000 PSI                    | 1           |                |
| 14         | EM509401        | ADAPTER                           | 1           |                |
| 15         | 519136          | HOSE, 2000 PSI                    | 1           |                |
| 16         | EM518993FM      | MOTOR AND FAN ASSY.               | 1           |                |
| 17         | 519271          | CUSHION                           | 2           |                |
| 18         | EM923343        | WASHER, LOCK 5/16"                | 8           |                |

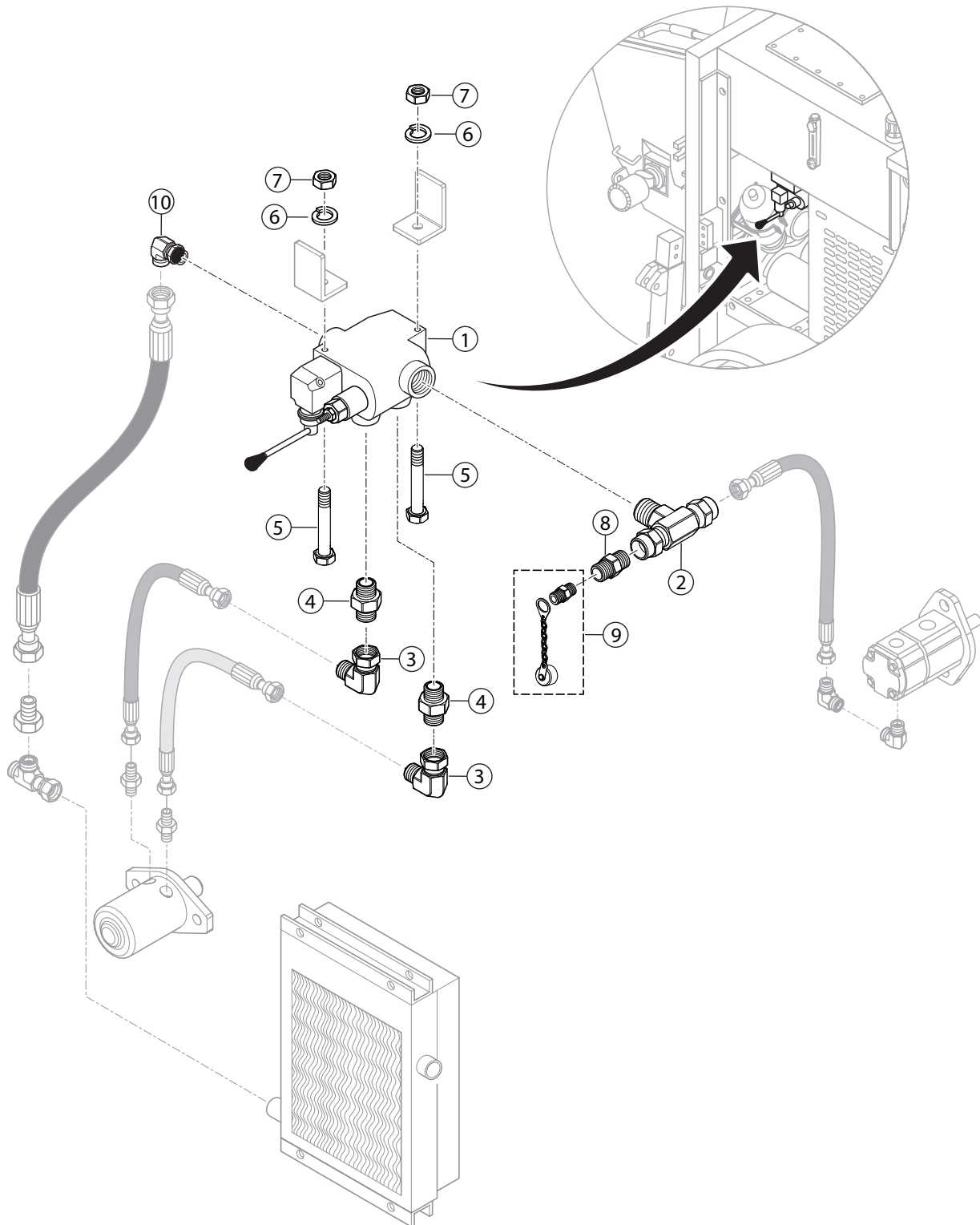
# ACCUMULATOR ASSY.



## ACCUMULATOR ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|---------------------------------|-------------|----------------|
| 1          | EM97015         | ACCUMULATOR 1 GAL.              | 1           |                |
| 2          | EM97016         | BRACKET, ACCUMULATOR            | 1           |                |
| 3          | EM963055        | BOLT, HHCS 3/8" NC X 3/4" GRD 5 | 2           |                |
| 4          | 3019092         | WASHER, FLAT 3/8"               | 2           |                |
| 5          | 0166 A          | WASHER, LOCK 3/8"               | 2           |                |
| 6          | EM509425        | FITTING, STRAIGHT               | 1           |                |
| 7          | EM509353        | FITTING, 90° ELBOW              | 1           |                |
| 8          | EM514603        | HOSE, ACCUMULATOR               | 1           |                |
| 9          | EM98009         | KIT, ACCUMULATOR REPAIR         | 1           |                |
| 10         | EM98052         | KIT, ACCUMULATOR TEST/CHARGE    | 1           |                |
| 11         | EM515105        | STRAP CINCH 4" STD DUTY         | 2           |                |
| 12         | EM515106        | STRAP CINCH 6" STD DUTY         | 6           |                |
| 13         | EM515107        | STRAP HANGING, 8" HVY DUTY      | 2           |                |
| 14         | EM492299        | BOLT, HEX HD 5/16" X 1/2"       | 2           |                |
| 15         | 518198          | ADAPTER, ELBOW 45 DEGREE        | 1           |                |

## REMIXER CONTROL ASSY.





## REMIXER CONTROL ASSY.

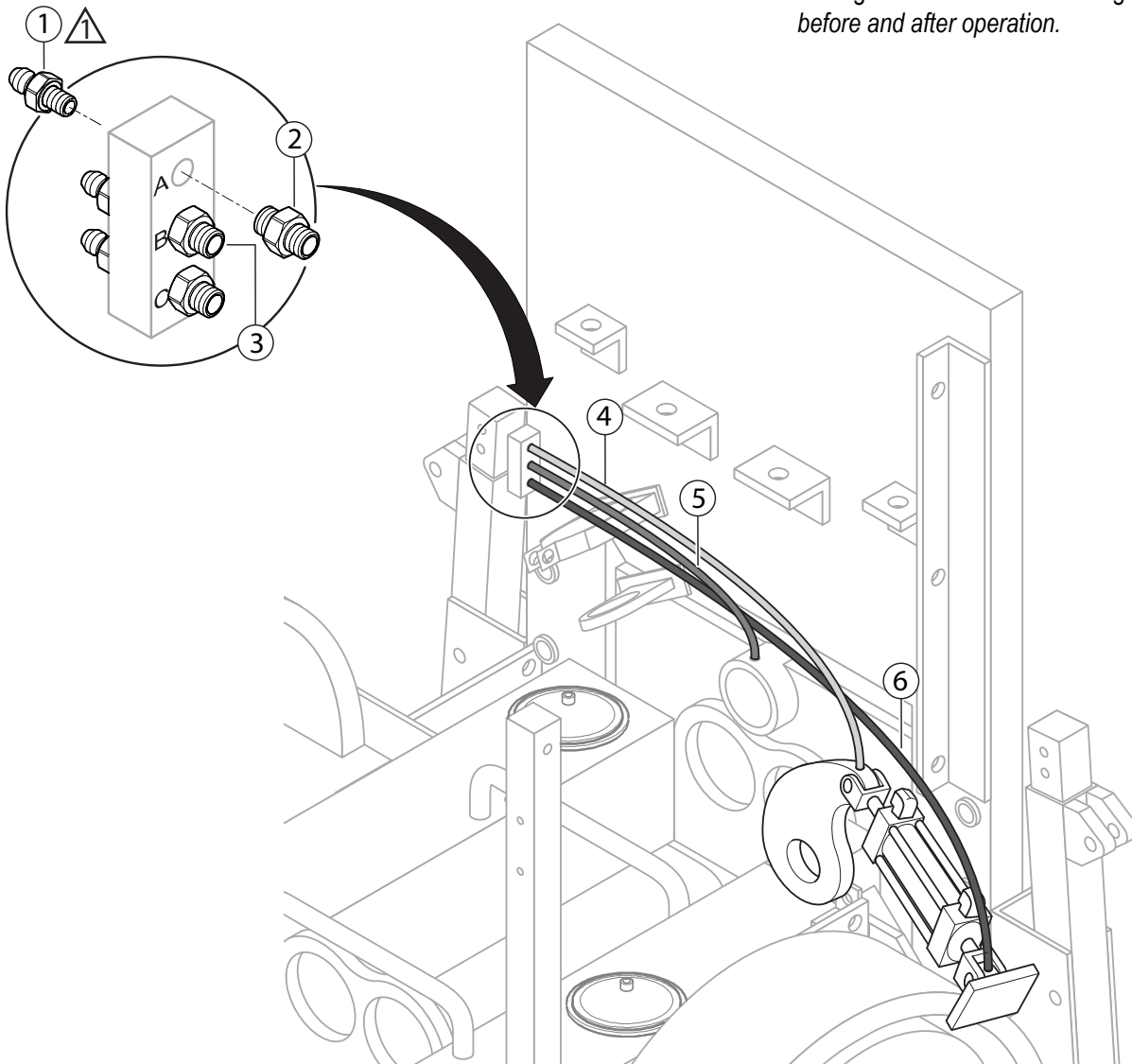
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| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>          | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|---------------------------|-------------|----------------|
| 1          | EM97017         | VALVE REMIXER W/LEVER     | 1           |                |
| 2          | 515384          | ADAPTER FITTING, TEE      | 1           |                |
| 3          | 506195          | FITTING, 90° ELBOW        | 1           |                |
| 4          | EM25509         | ADAPTER FITTING, STRAIGHT | 2           |                |
| 5          | EM218           | BOLT 5/16" X 2-1/2"       | 2           |                |
| 6          | EM923343        | WASHER, LOCK 5/16"        | 2           |                |
| 7          | 2105164         | NUT, HEX 5/16"            | 2           |                |
| 8          | EM98015         | COUPLING 1/4" PIPE        | 1           |                |
| 9          | EM98014         | TEST PORT                 | 1           |                |
| 10         | EM25507         | FITTING, 90° ELBOW        | 1           |                |

# LUBRICATION PANEL ASSY.

## NOTE:

⚠ Grease daily, two or three shots of #2 multipurpose automotive grease. Overgreasing any bearing will not damage the machine. *ALWAYS* grease *before and after* operation.



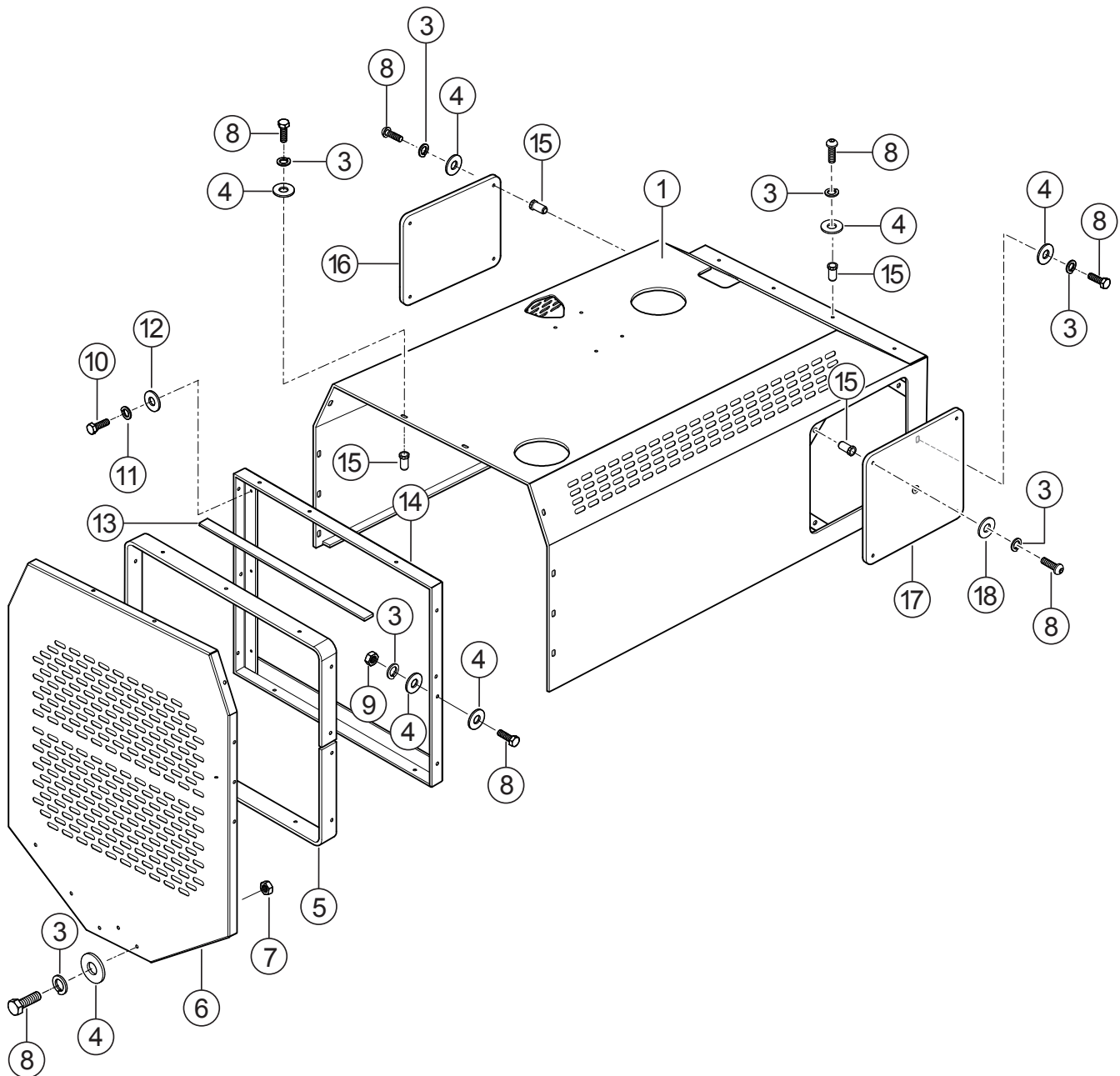
| <u>POSITION</u> | <u>LOCATION</u>                       | <u>LENGTH OF LINES</u> |
|-----------------|---------------------------------------|------------------------|
| A .....         | CLEVIS GREASE POINT .....             | 34 in. (1.1 m)         |
| B .....         | SWING AXLE BUSHING GREASE POINT ..... | 26 in. (.85 m)         |
| C .....         | PIVOT BRACKET GREASE POINT .....      | 41 in. (1.5 m)         |

## LUBRICATION PANEL ASSY.

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| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>         | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|--------------------------|-------------|----------------|
| 1          | EM491701        | GREASE FITTING           | 3           |                |
| 2          | 515328          | ADAPTOR, FITTING         | 1           |                |
| 3          | EM510684        | GREASE FITTING           | 2           |                |
| 4          | 802639          | HOSE, RUBBER             | 1           |                |
| 5          |                 | STEEL LINE.....          | AR.....     | OBTAIN LOCALLY |
| 6          | EM505516        | HOSE, PLASTIC 1/4" ..... | AR.....     | 1 PC=1 FT      |

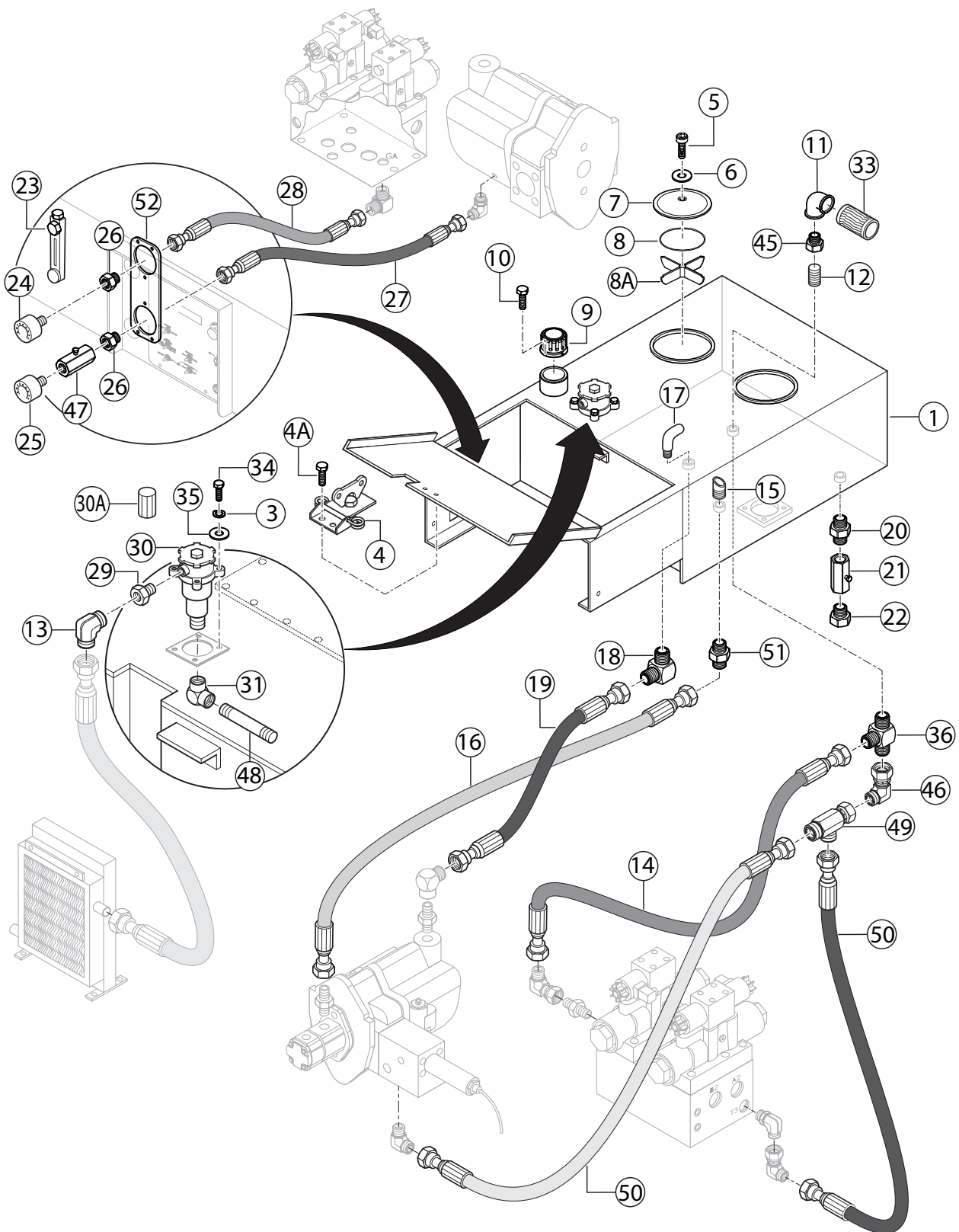
## ENGINE COVER ASSY.



## ENGINE COVER ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>            | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-----------------------------|-------------|----------------|
| 1          | 518761          | COVER, ENGINE               | 1           |                |
| 3          | 2101402         | WASHER, LOCK 1/4"           | AR          |                |
| 4          | 100531          | WASHER, FLAT, 1/4"          | AR          |                |
| 5          | 801589          | FRAME, VENT                 | 1           |                |
| 6          | 801418          | COVER, VENT                 | 1           |                |
| 7          | 492581          | NUT, 1/4-20 NYLON LOCK      | 12          |                |
| 8          | 100443          | BOLT, M6 X 20 P-1           | AR          |                |
| 9          | 2101428         | NUT, 1/4-20 NYLON LOCK      | AR          |                |
| 10         | 100265          | BOLT, M8 X 16 P-1.25 GRD8.8 | 6           |                |
| 11         | 030208200       | WASHER, LOCK M8             | 6           |                |
| 12         | 100494          | WASHER, FLAT M8             | 6           |                |
| 13         | 802662          | BRACE, VENT                 | 1           |                |
| 14         | 518886          | FRAME, VENT, INNER          | 1           |                |
| 15         | 100602          | NUT, BLIND M6               | 27          |                |
| 16         | 802666          | COVER, ACCESS, ALTERNATOR   | 1           |                |
| 17         | 801351          | COVER, ACCESS, FUEL FILTER  | 1           |                |
| 18         | 518761          | WASHER, FLAT                | 1           |                |

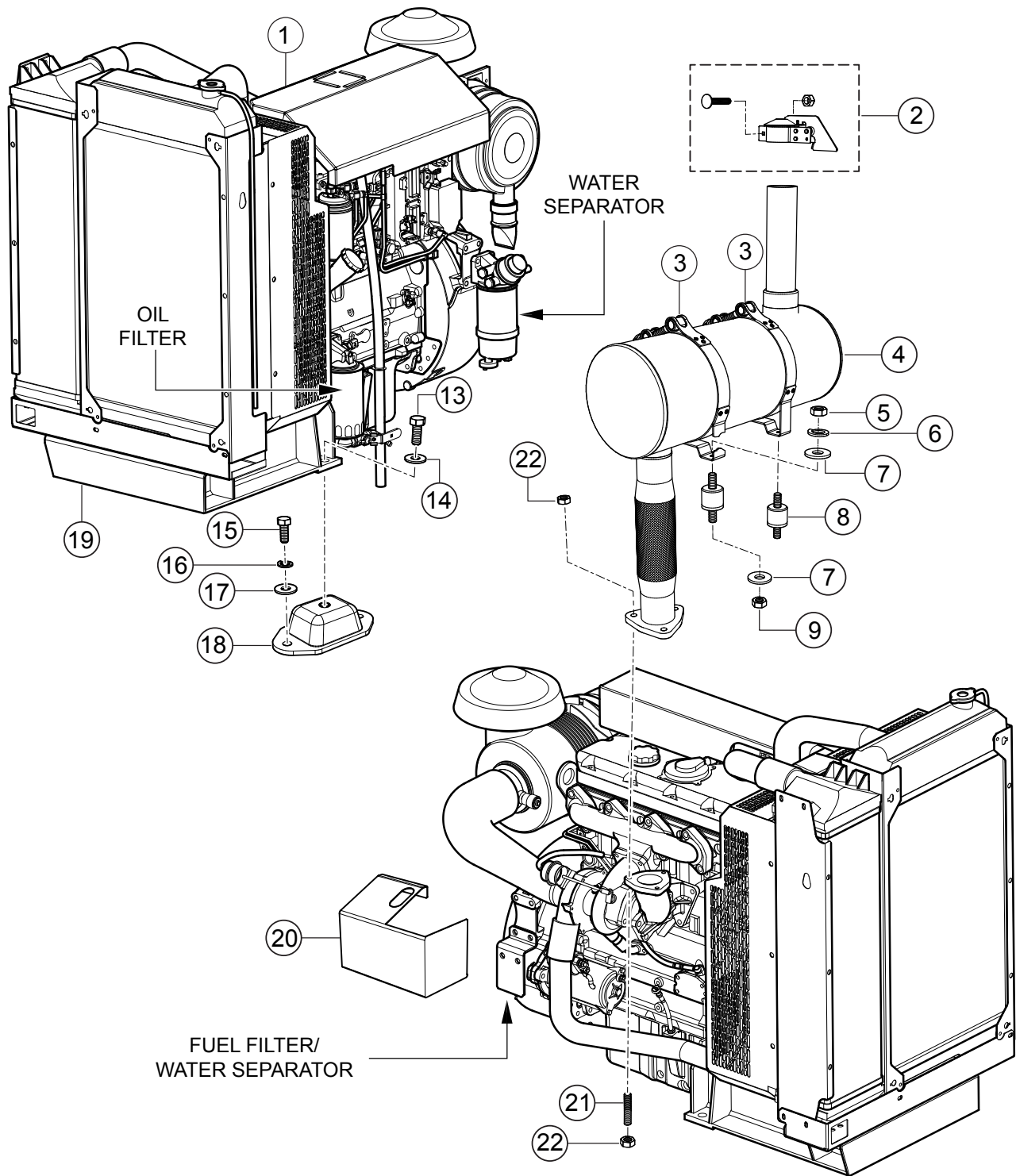
# HYDRAULIC TANK ASSY.



## HYDRAULIC TANK ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                  | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-----------------------------------|-------------|----------------|
| 1          | 800273          | HYDRAULIC TANK                    | 1           |                |
| 3          | 0166 A          | WASHER, LOCK 3/8"                 | 4           |                |
| 4          | EM517295        | LATCH                             | 1           |                |
| 4A         |                 | BOLT .....                        | 2           | OBTAIN LOCALLY |
| 5          | 505990          | BOLT, 1/2" X 2-1/2"               | 2           |                |
| 6          | 520343          | O-RING                            | 2           |                |
| 7          | EM800299        | COVER                             | 2           |                |
| 8          | EM800300        | O-RING                            | 2           |                |
| 8A         | EM800301        | RETAINER                          | 2           |                |
| 9          | EM98263P        | CAP ASSY.                         | 1           |                |
| 10         | 492267          | BOLT, 3/16 X 5/8"                 | 6           |                |
| 11         | EM16433         | ELBOW STREET 1-1/2"               | 1           |                |
| 12         | EM491189        | FITTING                           | 1           |                |
| 13         | EM18436         | ELBOW, 90° MALE ADAPTER           | 1           |                |
| 14         | EM514605        | HOSE                              | 1           |                |
| 15         | EM514622        | FITTING, 1"                       | 1           |                |
| 16         | 516876          | HOSE                              | 1           |                |
| 17         | EM491189        | ELBOW, 3/4"                       | 1           |                |
| 18         | 509784          | ADAPTER                           | 1           |                |
| 19         | 517002          | HOSE                              | 1           |                |
| 20         | EM509369        | ADAPTER, MALE STRAIGHT            | 1           |                |
| 21         | 491237          | GATE VALVE, 1/2" NPT FEMALE       | 1           |                |
| 22         | 506094          | PLUG, 1/2" NPT GALVANIZED         | 1           |                |
| 23         | EM98188         | GAUGE, LEVEL AND TEMP.            | 1           |                |
| 24         | EM97066         | GAUGE, 3000PSI, ACCUMULATOR       | 1           |                |
| 25         | EM97067         | GAUGE, 5000PSI, MAIN              | 1           |                |
| 26         | EM25523         | ADAPTER                           | 2           |                |
| 27         | EM509517        | HOSE, 4000PSI, MAIN GAUGE         | 1           |                |
| 28         | EM514602        | HOSE, 4000PSI, ACCUM. GAUGE       | 1           |                |
| 29         | 16517           | ADAPTER, MALE STRAIGHT            | 1           |                |
| 30         | EM98112A        | FILTER ASSY., RETURN              | 1           |                |
| 30A        | EM98275         | ELEMENT, RETURN FILTER            | 1           |                |
| 31         | 516814          | FITTING, 90°                      | 1           |                |
| 33         | EM16513         | DIFFUSER                          | 1           |                |
| 34         | EM963610        | CAP SCREW, 3/8" NC X 1-1/4" GRD 8 | 4           |                |
| 35         | 3019092         | WASHER, FLAT 3/8"                 | 4           |                |
| 36         | EM509343        | TEE FITTING                       | 1           |                |
| 45         | 516813          | BUSHING                           | 1           |                |
| 46         | EM509401        | ELBOW                             | 1           |                |
| 47         | EM16414         | VALVE NEEDLE                      | 1           |                |
| 48         | EM16516         | PIPE 1-1/2"                       | 1           |                |
| 49         | EM509344        | TEE                               | 1           |                |
| 50         | EM514604        | HOSE HYDRAULIC                    | 2           |                |
| 51         | 517029          | FITTING, STRAIGHT                 | 1           |                |
| 52         | 802671          | RETAINING PLATE                   | 1           |                |

# ENGINE MOUNTING EXHAUST ASSY.

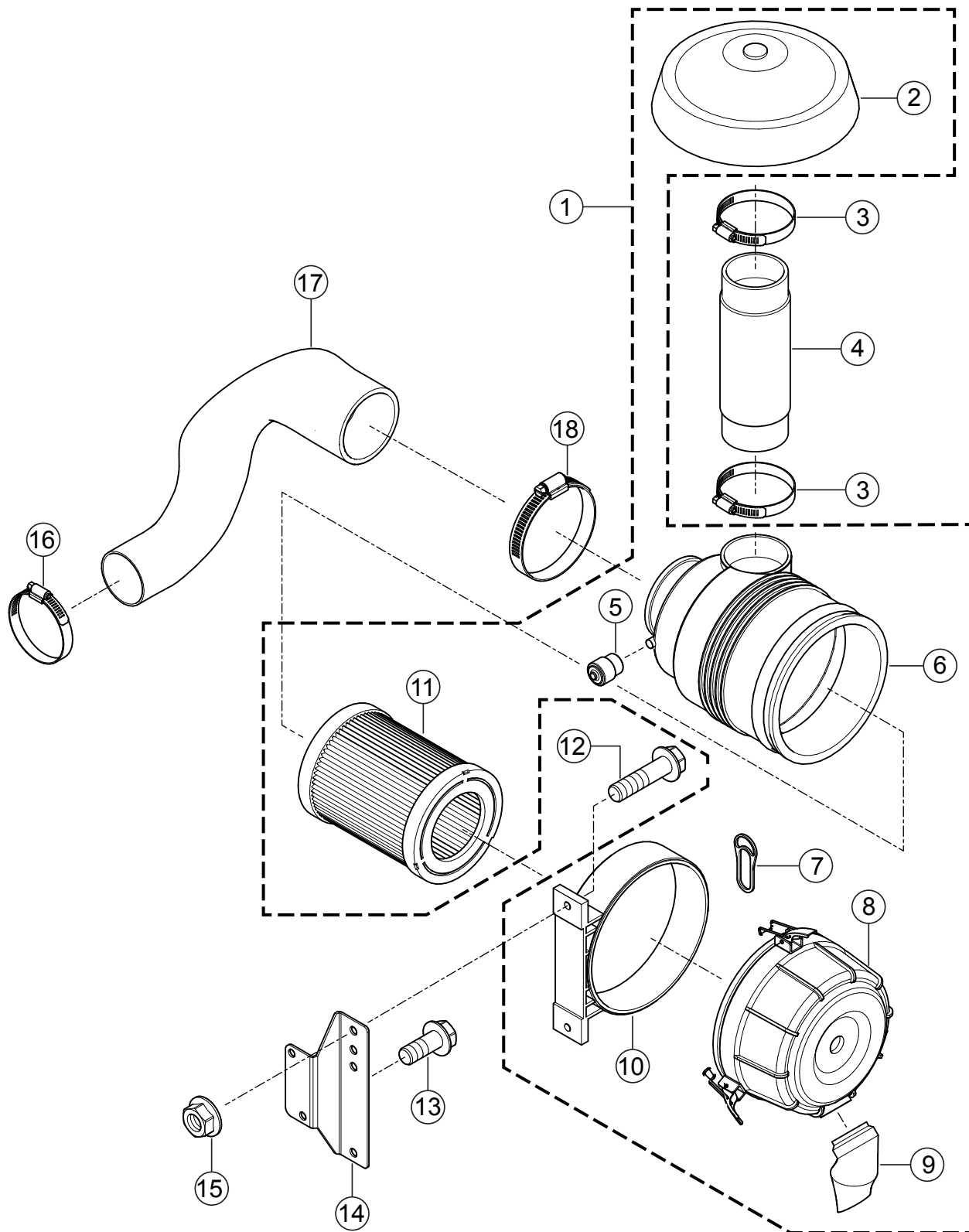




## ENGINE MOUNTING EXHAUST ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|---------------------------------|-------------|----------------|
| 1          | EM519238        | ENGINE, PERKINS 1104D-44TA      | 1           |                |
| 2          | 510897          | CAP, EXHAUST PIPE               | 1           |                |
| 3          | 802465          | CLAMP, EXHAUST MUFFLER          | 2           |                |
| 4          | 801640          | MUFFLER                         | 1           |                |
| 5          | 2105164         | NUT, 5/16"                      | 4           |                |
| 6          | EM923343        | WASHER, LOCK 5/16"              | 4           |                |
| 7          | EM923057        | WASHER, 1/4"                    | 8           |                |
| 8          | 801637          | CUSHION, RUBBER                 | 4           |                |
| 9          | 2105164         | NUT, 5/16"                      | 4           |                |
| 13         | 492406          | BOLT                            | 5           |                |
| 14         | EM506109        | WASHER, FLAT 5/8"               | 5           |                |
| 15         | EM963102        | CAP SCREW HX HD 1/2"NC X 1-1/4" | 10          |                |
| 16         | 6109180         | WASHER, LOCK 1/2"               | 10          |                |
| 17         | 6109170         | WASHER, FLAT 1/2"               | 10          |                |
| 18         | 518883          | MOUNT, ENGINE FOOT              | 5           |                |
| 19         | 800311          | BASE, RADIATOR MOUNT            | 1           |                |
| 20         | 801924          | COVER, HEAT SHIELD              | 1           |                |
| 21         | 2313C077        | STUD                            | 3           |                |
| 22         | 2318A634        | NUT                             | 6           |                |

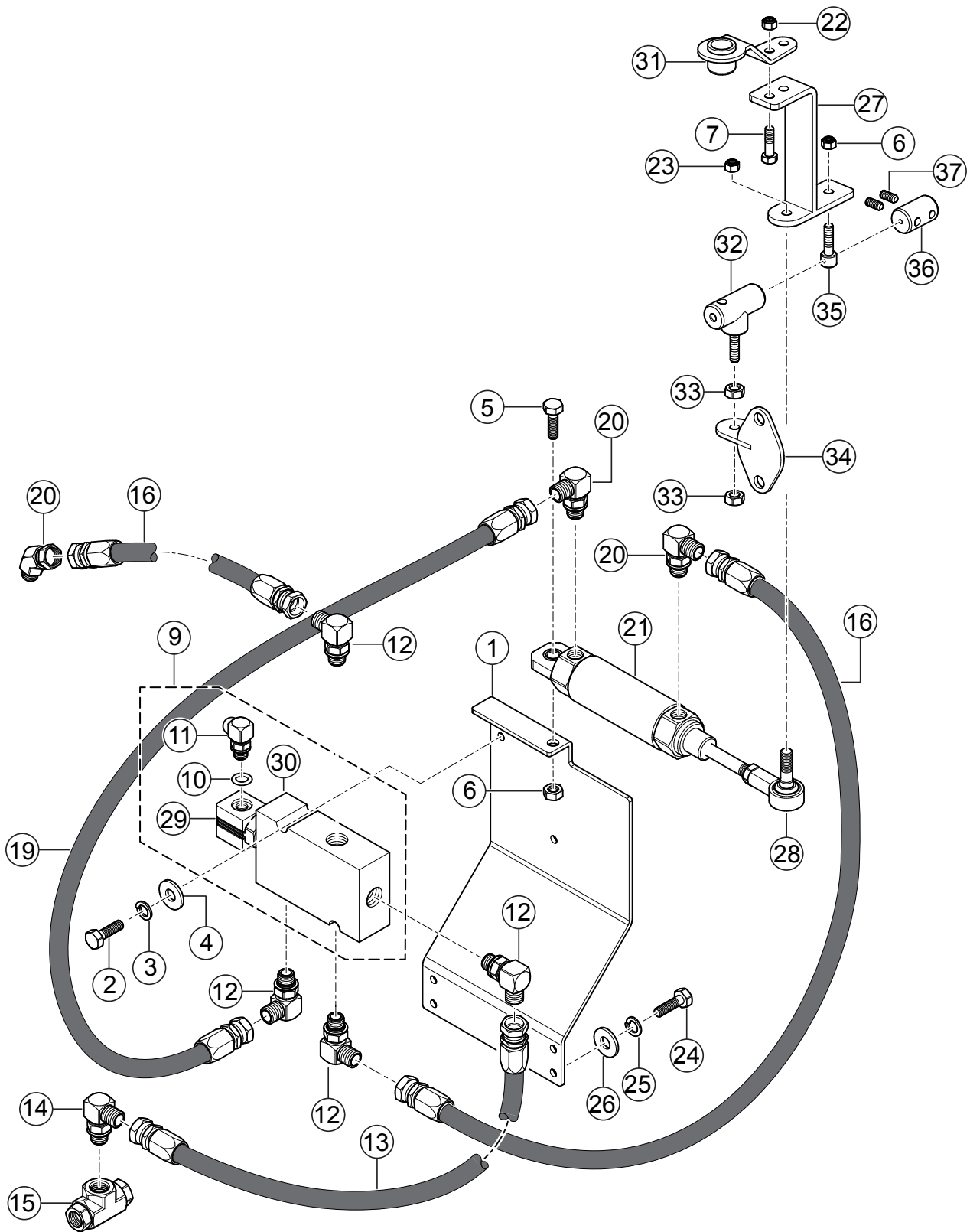
## ENGINE AIR FILTER ASSY.



## ENGINE AIR FILTER ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>        | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|-------------------------|-------------|---------------------|
| 1          | 2652C202        | AIR FILTER ASSY.....    | 1           | INCLUDES ITEMS W/\$ |
| 2\$        | 26510411        | CAP, AIR FILTER         | 1           |                     |
| 3          | 521311          | CLAMP                   | 2           |                     |
| 4          | 800267          | PIPE, EXHAUST EXTENSION | 1           |                     |
| 5\$        | 26510385        | INDICATOR, AIR FILTER   | 1           |                     |
| 6\$        |                 | AIR FILTER BODY.....    | 1           | NOT SOLD SEPERATELY |
| 7\$        | 26510407        | RUBBER STRAP            | 1           |                     |
| 8\$        |                 | COVER, AIR FILTER ..... | 1           | NOT SOLD SEPERATELY |
| 9\$        | 26510386        | VALVE, AIR FILTER       | 1           |                     |
| 10\$       | 26510382        | MOUNTING BRACKET        | 1           |                     |
| 11\$       | 26510380        | AIR FILTER              | 1           |                     |
| 12         | 2314H005        | SCREW                   | 2           |                     |
| 13         | 2314J002        | SCREW                   | 2           |                     |
| 14         | 3653A051        | BRACKET                 | 1           |                     |
| 15         | 2318A603        | NUT                     | 2           |                     |
| 16         | 21825194        | CLAMP                   | 1           |                     |
| 17         | 3783R007        | HOSE, AIR FILTER        | 1           |                     |
| 18         | 0180074         | CLAMP                   | 1           |                     |

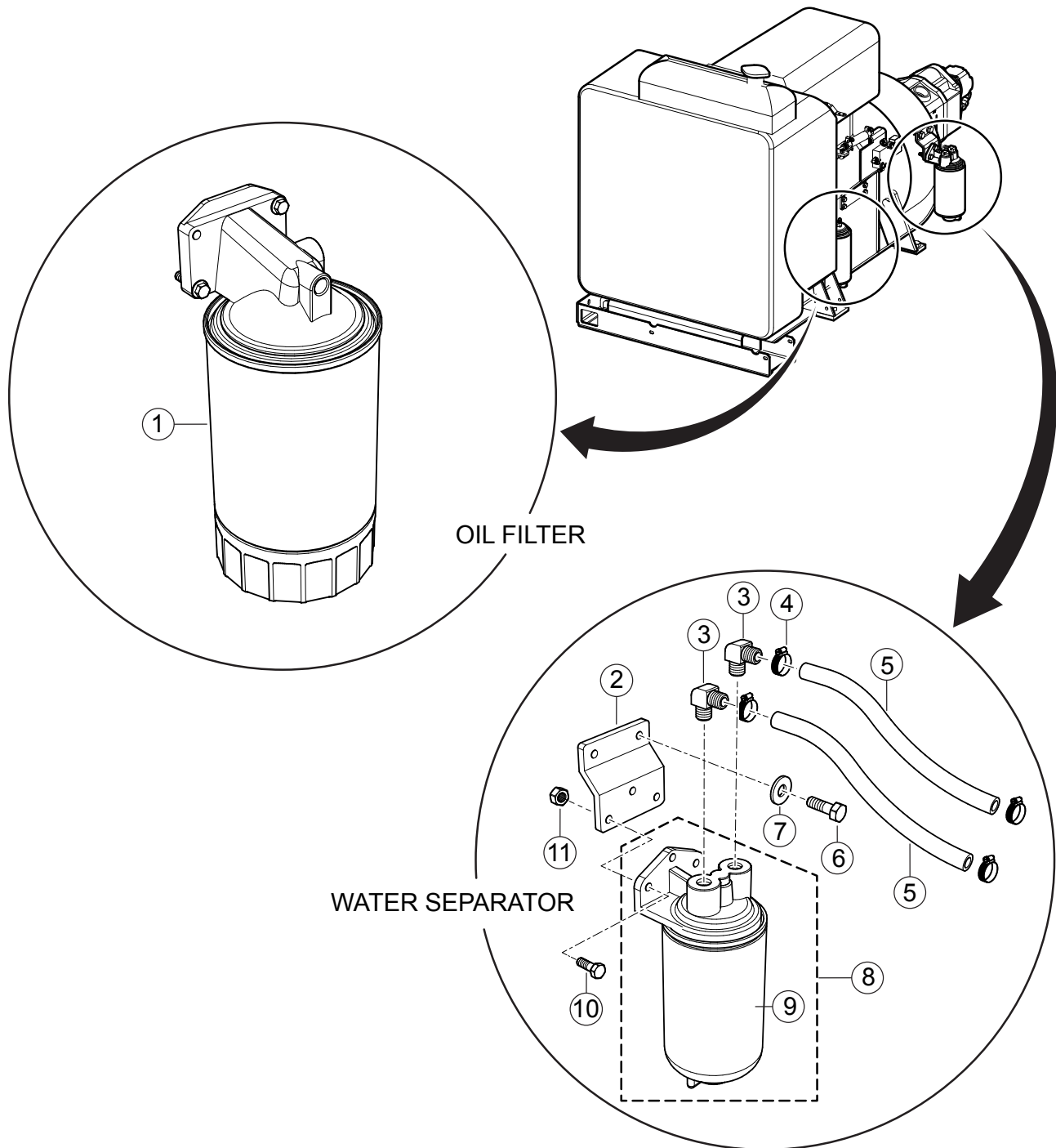
## THROTTLE ASSY.



## THROTTLE ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                     | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|--------------------------------------|-------------|---------------------|
| 1          | 800377          | SUPPORT BASE, ACCELERATOR            | 1           |                     |
| 2          | EM167           | BOLT, 1/4-20 X 1-3/4" SOCK. HD.      | 2           |                     |
| 3          | 2101402         | WASHER, LOCK 1/4"                    | 2           |                     |
| 4          | EM923057        | WASHER, 1/4"                         | 2           |                     |
| 5          | 512185          | SCREW, HHC 1/4-20 X 1-3/4"           | 1           |                     |
| 6          | 492581          | NUT, HEX 1/4"                        | 1           |                     |
| 7          | EM506599        | BOLT, HEX 6MM X 15                   | 2           |                     |
| 9          | EM98168         | VALVE SOLENOID, THROTTLE BLOCK ..... | 1           | INCLUDES ITEMS W/\$ |
| 10\$       | EM98167         | SEAL CONNECTOR                       | 1           |                     |
| 11\$       | EM98166         | CONNECTOR, DIN PG9                   | 1           |                     |
| 12         | EM25429         | ELBOW, ADAPTER 90° MALE              | 7           |                     |
| 13         | 516875          | HOSE, 500MM LONG                     | 1           |                     |
| 14         | EM50449         | FITTING ELBOW, 90°                   | 1           |                     |
| 15         | EM25577         | TEE STREET, SAE1404                  | 1           |                     |
| 16         | EM509366        | HOSE, 13-3/4" LONG                   | 2           |                     |
| 19         | EM25576         | HOSE, 20" LONG                       | 1           |                     |
| 20         | EM50449         | ELBOW, ADAPTER 90° MALE              | 3           |                     |
| 21         | EMCC700         | HYDRAULIC CYLINDER                   | 1           |                     |
| 22         | 100078          | NUT, M6 P-1 NYLON INSERT             | 2           |                     |
| 23         | 508451          | NUT, LOCK 1/4-28 NF                  | 1           |                     |
| 24         | EM506886        | BOLT, M8X20 X 1-1/4"                 | 4           |                     |
| 25         | 030208200       | WASHER, LOCK M8                      | 4           |                     |
| 26         | 040150080       | WASHER, FLAT SS M8                   | 4           |                     |
| 27         | 800141          | LEVER, ACCELERATOR                   | 1           |                     |
| 28         | 516487          | END, ROD                             | 1           |                     |
| 29\$       | EM98228         | COIL, 12V                            | 1           |                     |
| 30\$       | EM98232         | CARTRIDGE VALVE                      | 1           |                     |
| 31         | EM505201        | SHOCK MOUNT                          | 1           |                     |
| 32         | 520180          | PIVOT, ACCELERATOR LINKAGE           | 1           |                     |
| 33         | 2101428         | NUT, HEX 1/4-20                      | 2           |                     |
| 34         | 801838          | BASE, MOUNTING                       | 1           |                     |
| 35         | 513213          | GUIDE, THROTTLE CABLE                | 1           |                     |
| 36         | 802587          | ANCHOR, THROTTLE CABLE GUIDE         | 1           |                     |
| 37         | 492466          | SET SCREW, 1/4"NC X 1/2"             | 2           |                     |

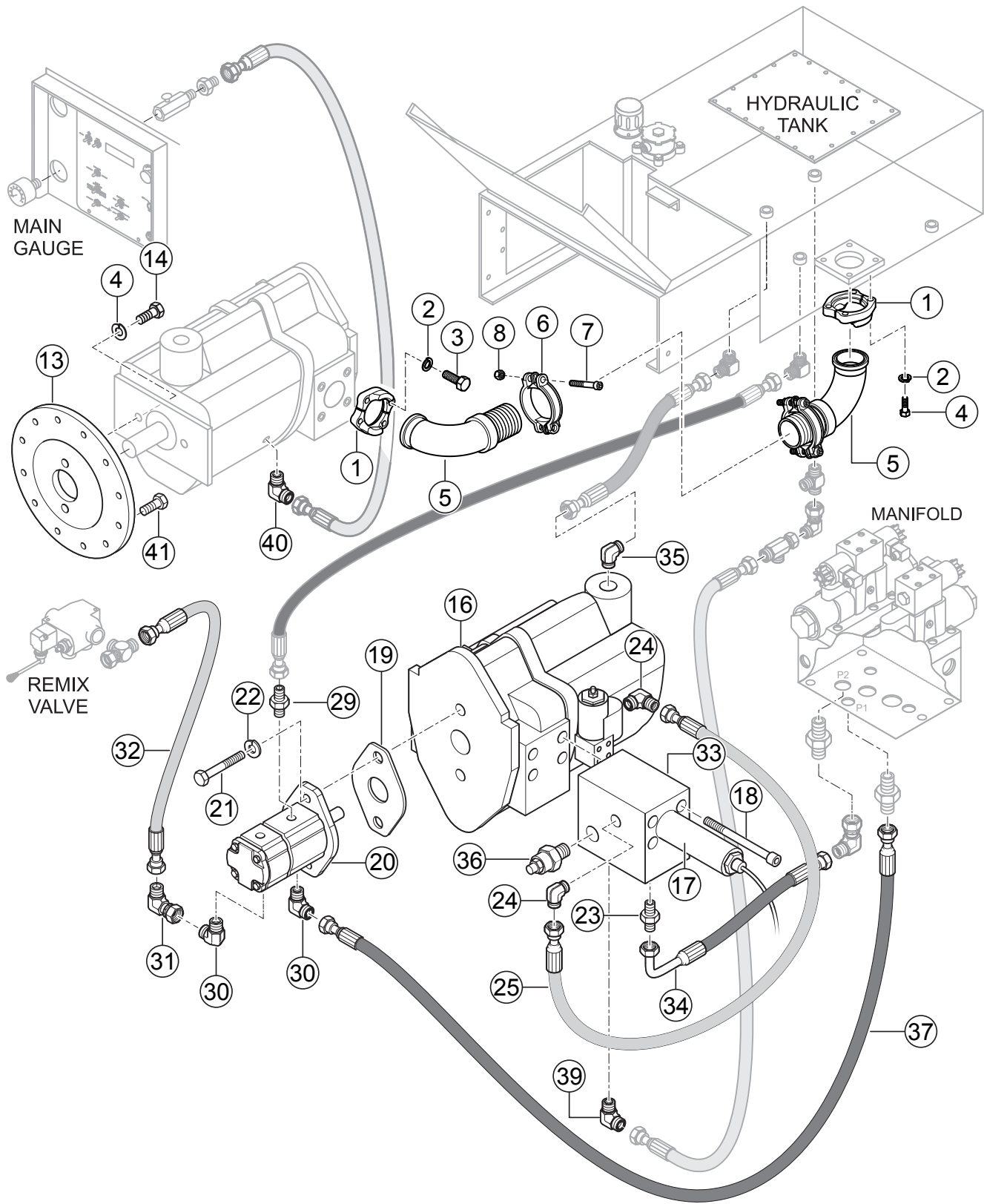
## OIL FILTER-WATER SEPARATOR ASSY.



## OIL FILTER-WATER SEPARATOR ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>              | <u>QTY.</u> | <u>REMARKS</u>     |
|------------|-----------------|-------------------------------|-------------|--------------------|
| 1          | 2654407         | OIL FILTER                    | 1           |                    |
| 2          | 802661          | BRACKET, MTG. WATER SEPARATOR | 1           |                    |
| 3          | 514560          | ELBOW, 90°                    | 2           |                    |
| 4          | 506208          | CLAMP                         | 4           |                    |
| 5          | 514563          | HOSE, 4FLH 5/16".....         | AR          | 1 PC=1 FT          |
| 6          | 100286          | BOLT, M12 X 25P-1.75          | 2           |                    |
| 7          | 6109180         | WASHER, LOCK 1/2"             | 2           |                    |
| 8          | EM16747         | WATER SEPARATOR ASSY.....     | 1           | INCLUDES ITEM W/\$ |
| 9\$        | EM167472        | FILTER, WATER SEPARATOR       | 1           |                    |
| 10         | EM963057        | CAP SCREW, 3/8" X 1-1/2"      | 3           |                    |
| 11         | EM969013        | NUT, NYLOK                    | 3           |                    |

# HYDRAULIC PUMP ASSY.

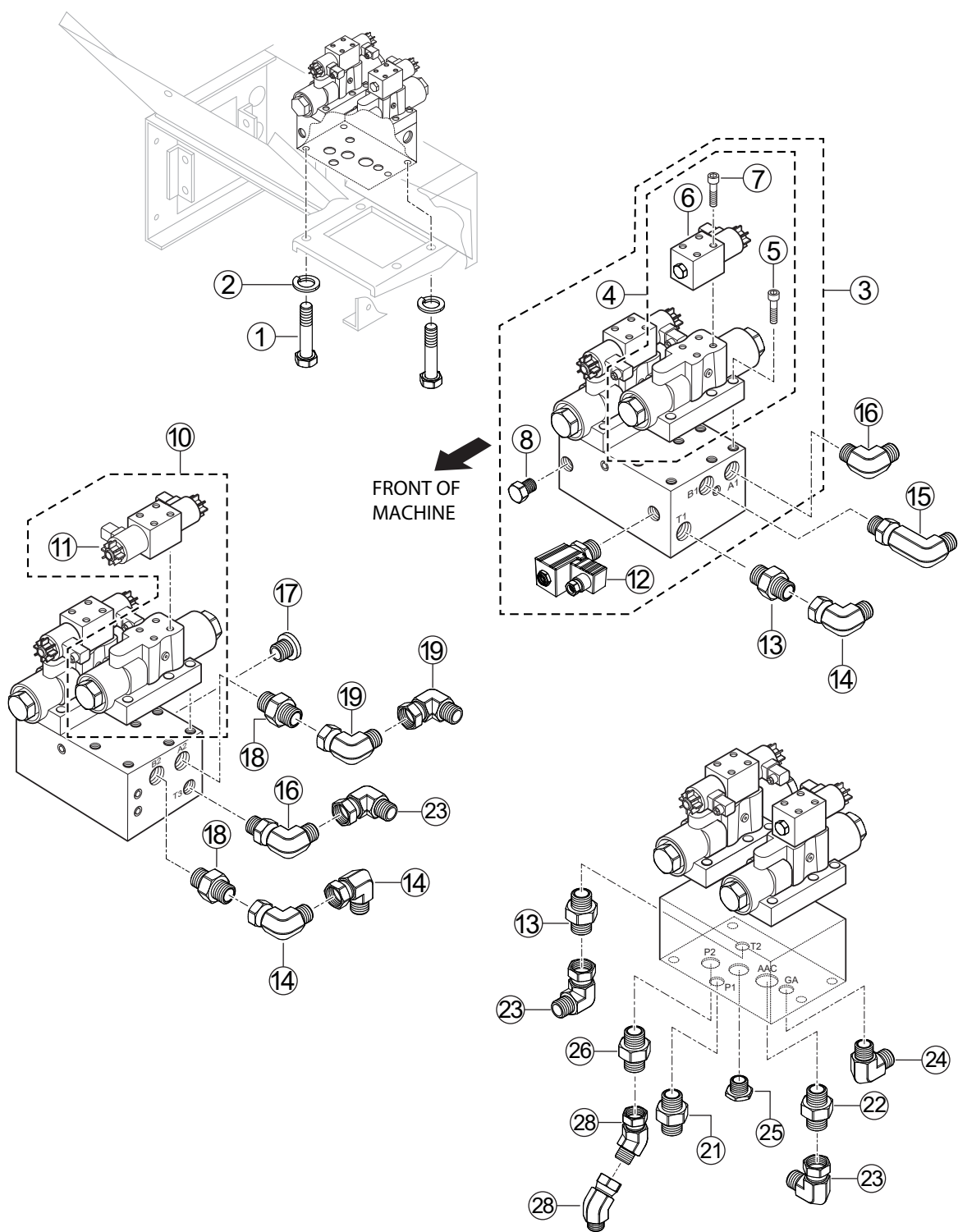




## HYDRAULIC PUMP ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                      | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|---------------------------------------|-------------|----------------|
| 1          | EM514719        | FLANGE, SUCTION PIPE                  | 2           |                |
| 2          | 6109180         | WASHER, LOCK 1/2"                     | 8           |                |
| 3          | EM963692        | CAP SCREW, HHCS 1/2-13 X 1-1/2" GRD 5 | 4           |                |
| 4          | 492444          | CAP SCREW, 1/2"NF X 1-1/4" GRD 5      | 4           |                |
| 5          | 801874          | SUCTION ELBOW                         | 2           |                |
| 6          | 810875          | CLAMP, SUCTION ELBOW                  | 2           |                |
| 7          | 511428          | SCREW, ALLEN HD 1/2-13 X 3" GRD 5     | 4           |                |
| 8          | 492584          | NUT, LOCK 1/2"NC, NYLOK GRD 5         | 4           |                |
| 13         | EM519239        | COUPLER, ENGINE ASSY.                 | 1           |                |
| 14         | EM510902        | BOLT, 1/2" 1-1/2"                     | 2           |                |
| 16         | EM98257         | PUMP, MAIN 100CC                      | 1           |                |
| 17         | EM98273         | FLOW CONTROL VALVE                    | 1           |                |
| 18         | 511428          | SCREW, ALLEN HD. 1/2-13 X 3           | 4           |                |
| 19         | EM16190         | GASKET                                | 1           |                |
| 20         | EM98107         | PUMP, SECONDARY                       | 1           |                |
| 21         | EM963610        | BOLT, 3/8" X 1"                       | 2           |                |
| 22         | 0166 A          | WASHER, LOCK 3/8"                     | 2           |                |
| 23         | EM509796        | ADAPTER, STRAIGHT                     | 1           |                |
| 24         | EM25429         | ELBOW ADAPTER                         | 2           |                |
| 25         | 516875          | HOSE, 4000 PSI SENSOR                 | 1           |                |
| 29         | EM25498         | ADAPTER, STRAIGHT                     | 1           |                |
| 30         | EM16524         | ELBOW ADAPTER 90° MALE                | 2           |                |
| 31         | 503200          | ELBOW ADAPTER                         | 1           |                |
| 32         | EM514601        | HOSE, 2000 PSI, REMIX VALVE           | 1           |                |
| 33         | EM517650        | MANIFOLD W/MOTORIZED FLOW CTRL.       | 1           |                |
| 34         | EM517032        | HOSE, MAIN MANIFOLD                   | 1           |                |
| 35         | EM25459         | ELBOW                                 | 1           |                |
| 36         | EM98276         | VALVE, MAIN RELIEF                    | 1           |                |
| 37         | EM514608        | HOSE                                  | 1           |                |
| 39         | EM25459         | ELBOW                                 | 1           |                |
| 40         | EM25429         | ELBOW ADAPTER                         | 1           |                |
| 41         | 54812           | SCREW, ALLEN HD. CAP                  | 12          |                |

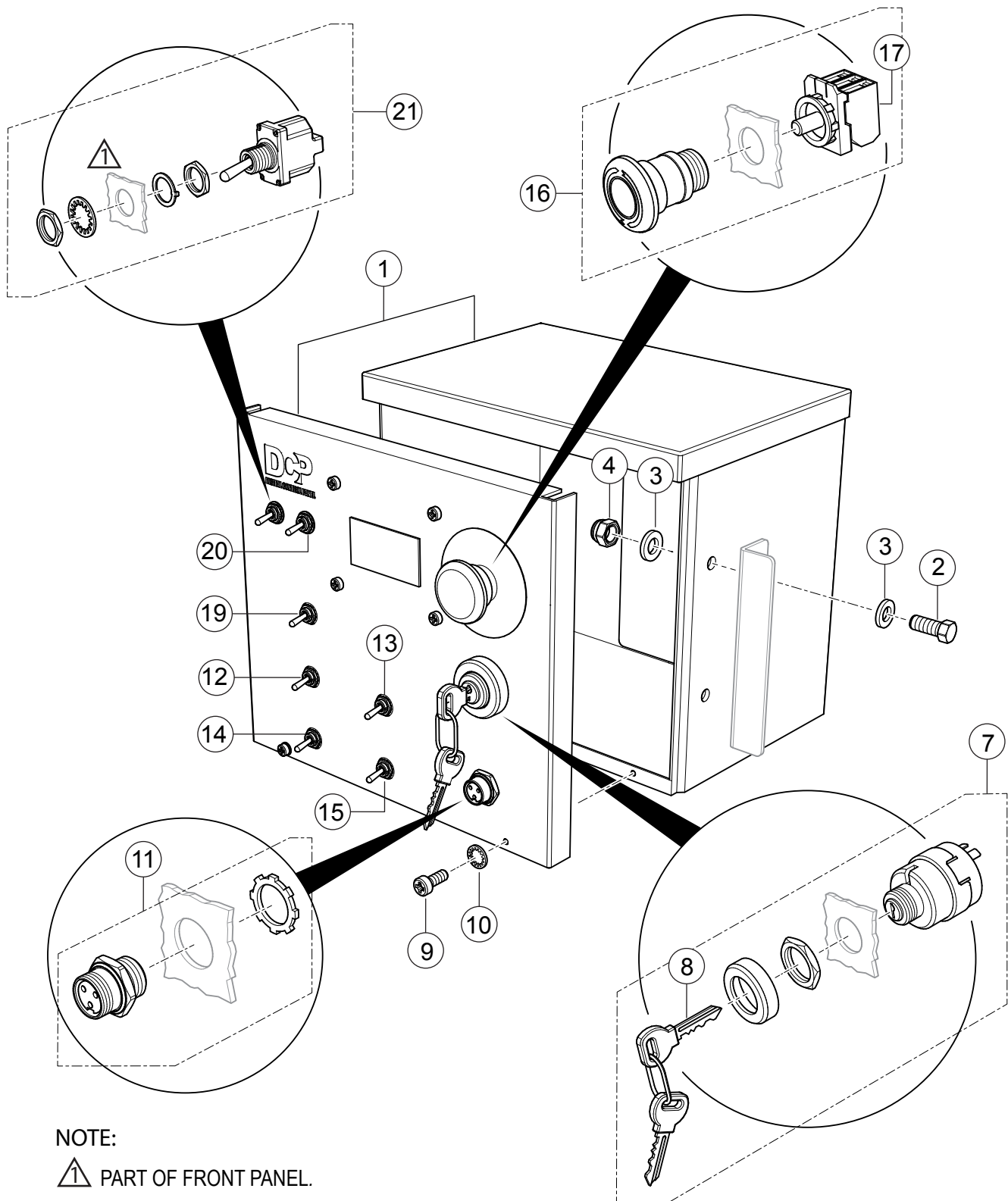
**MANIFOLD ASSY.**



## MANIFOLD ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                   | <u>QTY.</u> | <u>REMARKS</u>     |
|------------|-----------------|------------------------------------|-------------|--------------------|
| 1          | EM963102        | BOLT, 1/2" X 1-1/4"                | 4           |                    |
| 2          | 6109180         | WASHER, LOCK 1/2"                  | 4           |                    |
| 3          | EM98261         | MANIFOLD ASSY. ....                | 1           | INCLUDES ITEMS W/% |
| 4%         | EM98220         | CYCLING VALVE, SWING W/PILOTS..... | 1           | INCLUDES ITEMS W/# |
| 5%#        | EMBK227         | BOLT, SHCS 1/2" X 2-1/4"           | 12          |                    |
| 6%#        | EM98223         | PILOT VALVE, SHUTTLE               | 1           |                    |
| 7%#        | EMBK2097        | BOLT, SHCS 1/2" X 1-1/4"           | 8           |                    |
| 8%         | EM98227         | CHECK VALVE                        | 1           |                    |
| 10         | EM98221         | CYCLING VALVE, MAIN.....           | 1           | INCLUDES ITEM W/\$ |
| 11\$       | EM98222         | PILOT VALVE, MAIN CYL.             | 1           |                    |
| 12%        | EM98307         | CARTRIDGE ASSY., ACCUM. UNLOADER   | 1           |                    |
| 13         | EM25498         | FITTING HYDRAULIC, ELBOW           | 3           |                    |
| 14         | EM509401        | ELBOW                              | 3           |                    |
| 15         | EM514488        | ADAPTER                            | 1           |                    |
| 16         | EM25459         | ELBOW, 3/4" 90°                    | 2           |                    |
| 17         | 519663          | ADAPTER, PLUG                      | 1           |                    |
| 18         | EM514231        | ADAPTER                            | 2           |                    |
| 19         | EM514489        | ADAPTER                            | 2           |                    |
| 20         | EM506193        | ADAPTER                            | 1           |                    |
| 21         | EM506193        | ADAPTER                            | 1           |                    |
| 22         | EM25462         | STRAIGHT CONNECTOR                 | 1           |                    |
| 23         | EM509353        | ELBOW                              | 3           |                    |
| 24         | EM25497         | FITTING, ELBOW                     | 1           |                    |
| 25         | EM98227         | CHECK VALVE                        | 1           |                    |
| 26         | EM509796        | ADAPTER, STRAIGHT                  | 1           |                    |
| 27         | EM517149        | ADAPTER, ELBOW 90°                 | 1           |                    |
| 28         | 518198          | ADAPTER, ELBOW 45°                 | 2           |                    |

## CONTROL BOX ASSY.

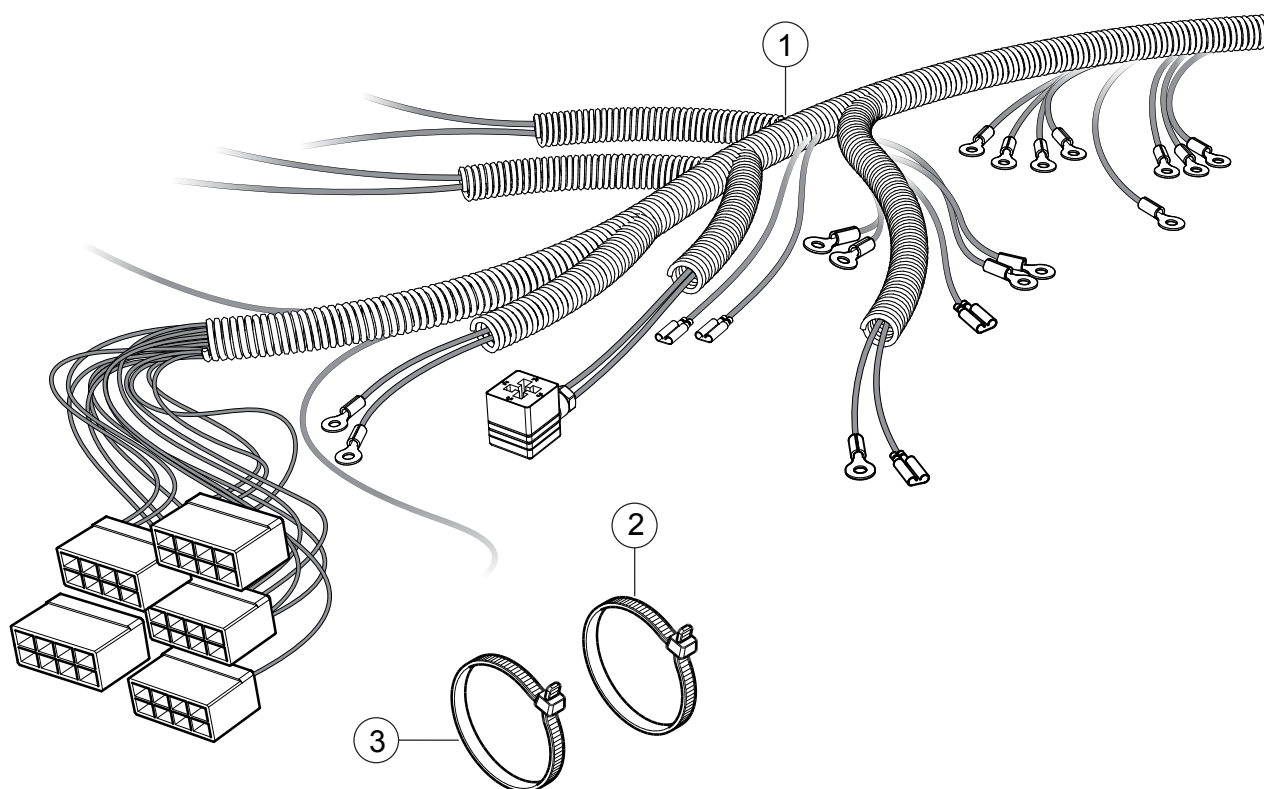


## CONTROL BOX ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                 | <u>QTY.</u> | <u>REMARKS</u>         |
|------------|-----------------|----------------------------------|-------------|------------------------|
| 1          |                 | CONTROL BOX ASSY. ....           | 1           | CONTACT MQ PARTS DEPT. |
| 2          | 0202            | BOLT, 5/16-18 X 1" ZINC          | 4           |                        |
| 3          | EM923023        | WASHER, FLAT 5/16"               | 8           |                        |
| 4          | 2105164         | NUT, 5/16"                       | 4           |                        |
| 7          | EM98206         | IGNITION SWITCH ASSY. ....       | 1           | INCLUDES ITEM W/\$     |
| 8\$        | EM98206K        | KEY, IGNITION                    | 1           |                        |
| 9          |                 | SCREW.....                       | 6           | OBTAIN LOCALLY         |
| 10         |                 | WASHER .....                     | 6           | OBTAIN LOCALLY         |
| 11         | EM97068         | RECEPTACLE, REMOTE               | 1           |                        |
| 12         | EM98120         | FLOW DIRECTION SWITCH ASSY.      | 1           |                        |
| 13         | EM98119         | MAIN CONTROL SWITCH ASSY.        | 1           |                        |
| 14         | EM98121         | AUTO/JOG SWITCH ASSY.            | 1           |                        |
| 15         | EM98122         | JOG A/B SWITCH ASSY.             | 1           |                        |
| 16         | EM517177        | EMERGENCY STOP SWITCH ASSY. .... | 1           | INCLUDES ITEM W/#      |
| 17#        | EM517186        | CONTACT BLOCK, EMERG. SWITCH     | 1           |                        |
| 19         | EM98122         | VOLUME SWITCH ASSY.              | 1           |                        |
| 20         | EM98122         | RESET SWITCH ASSY.               | 1           |                        |
| 21         | EM98122         | SCROLL SWITCH ASSY.              | 1           |                        |

## CONTROL BOX HARNESS ASSY.

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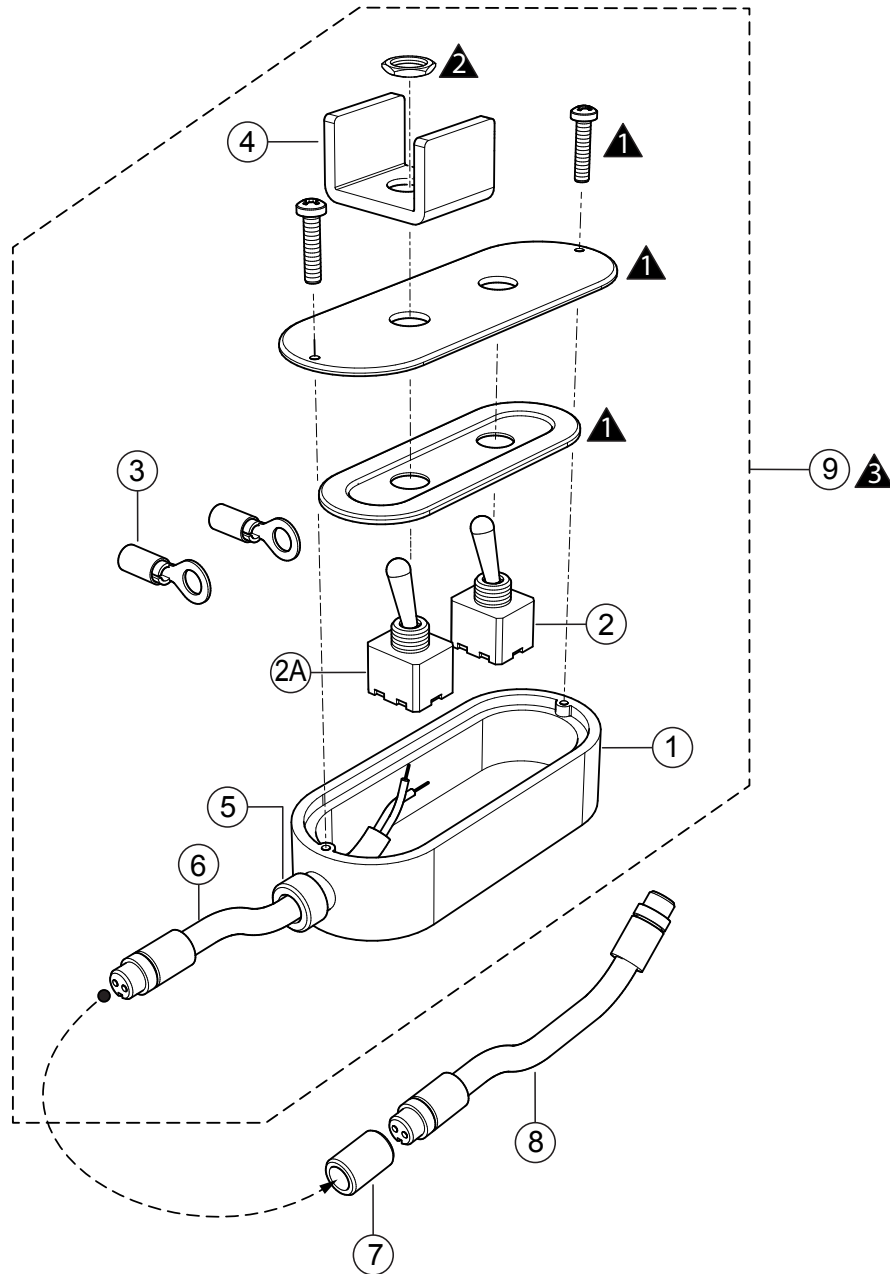


## CONTROL BOX HARNESS ASSY.

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| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>      | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-----------------------|-------------|----------------|
| 1          | EM800107        | WIRE HARNESS, MAIN    | 1           |                |
| 2          | 491030          | WRAP, TIE 2.5 X 142MM | 5           |                |
| 3          | EM504505        | WRAP, TIE 4.6 X 360MM | 2           |                |

## REMOTE CONTROL CABLE ASSY.



### NOTES

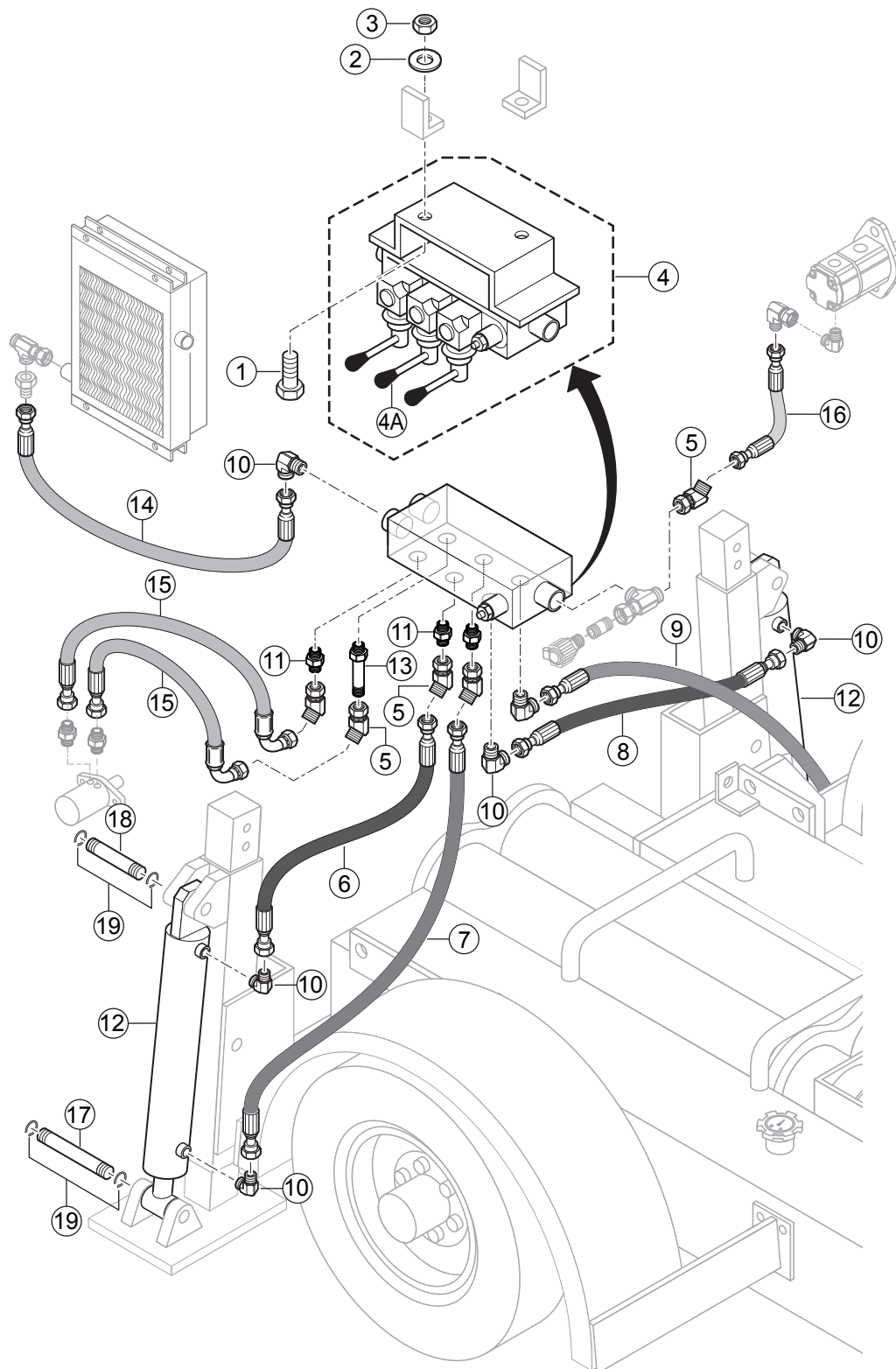
- ▲ 1 INCLUDED WITH ITEM 1.
- ▲ 2 INCLUDED WITH ITEMS 2 AND 2A.
- ▲ 3 COMPLETE CORD ASSY. INCLUDES ITEMS WITHIN DASHED LINES.



## REMOTE CONTROL CABLE ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                      | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|---------------------------------------|-------------|---------------------|
| 1\$        | EM16753         | JUNCTION BOX                          | 1           |                     |
| 2\$        | EM16754         | SWITCH                                | 1           |                     |
| 2A\$       | EM97075         | SWITCH                                | 1           |                     |
| 3\$        | EM491897        | CONNECTOR, RING 3/16"                 | 4           |                     |
| 4\$        | EM16756         | GUARD SWITCH, ALUMINUM.               | 2           |                     |
| 5\$        | EM26791         | SEAL, GRIP CORD                       | 1           |                     |
| 6\$        | EM26790         | CORD, MX P/E 25'                      | 1           |                     |
| 7          | EM26793         | ADAPTER, CORD GRIP 1/2"               | 1           |                     |
| 8          | EM97065         | CORD, 100', REMOTE CONTROL.....       | 1.....      | OPTION              |
| 9          | EM97099         | CABLE REMOTE CONTROL ASSY., 25' ..... | 1.....      | INCLUDES ITEMS W/\$ |

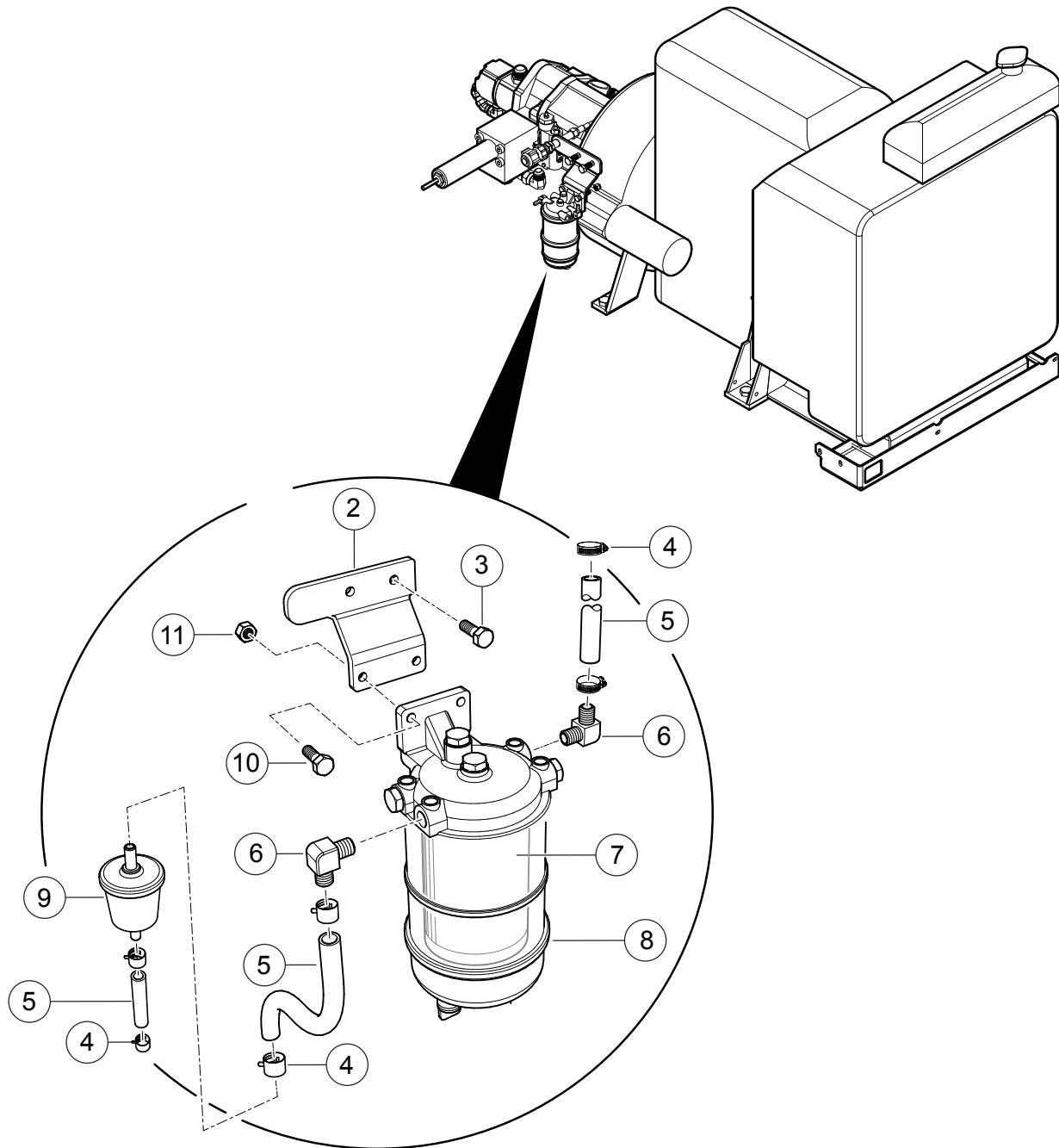
## HYDRAULIC STABILIZER ASSY.(OPTIONAL)



## HYDRAULIC STABILIZER ASSY.(OPTIONAL)

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>              | <u>QTY.</u> | <u>REMARKS</u>     |
|------------|-----------------|-------------------------------|-------------|--------------------|
| 1          |                 | BOLT.....                     | 2.....      | OBTAIN LOCALLY     |
| 2          |                 | WASHER .....                  | 2.....      | OBTAIN LOCALLY     |
| 3          |                 | NUT.....                      | 2.....      | OBTAIN LOCALLY     |
| 4          | EM98046         | VALVE REMIXER W/3 LEVERS..... | 1.....      | INCLUDES ITEM W/\$ |
| 4A\$       | EM98047         | HANDLE, DIRECTIONAL VALVE     | 3           |                    |
| 5          | 503200          | FITTING, 45°                  | 5           |                    |
| 6          | 517101          | HOSE                          | 1           |                    |
| 7          | 517102          | HOSE                          | 1           |                    |
| 8          | 517103          | HOSE                          | 1           |                    |
| 9          | 517104          | HOSE                          | 1           |                    |
| 10         | EM512655        | ADAPTER, 90°                  | 7           |                    |
| 11         | EM25509         | FITTING, STRAIGHT             | 3           |                    |
| 12         | EM516382        | HYDRAULIC CYLINDER            | 2           |                    |
| 13         | EM517107        | FITTING, STRAIGHT             | 1           |                    |
| 14         | 517105          | HOSE                          | 1           |                    |
| 15         | 517100          | HOSE                          | 1           |                    |
| 16         | 517106          | HOSE                          | 1           |                    |
| 17         | 517153          | PIPE                          | 2           |                    |
| 18         | 517154          | PIPE                          | 2           |                    |
| 19         | JISB2804C25     | RING, RETAINING M25           | 8           |                    |

## FUEL-WATER SEPARATOR ASSY.

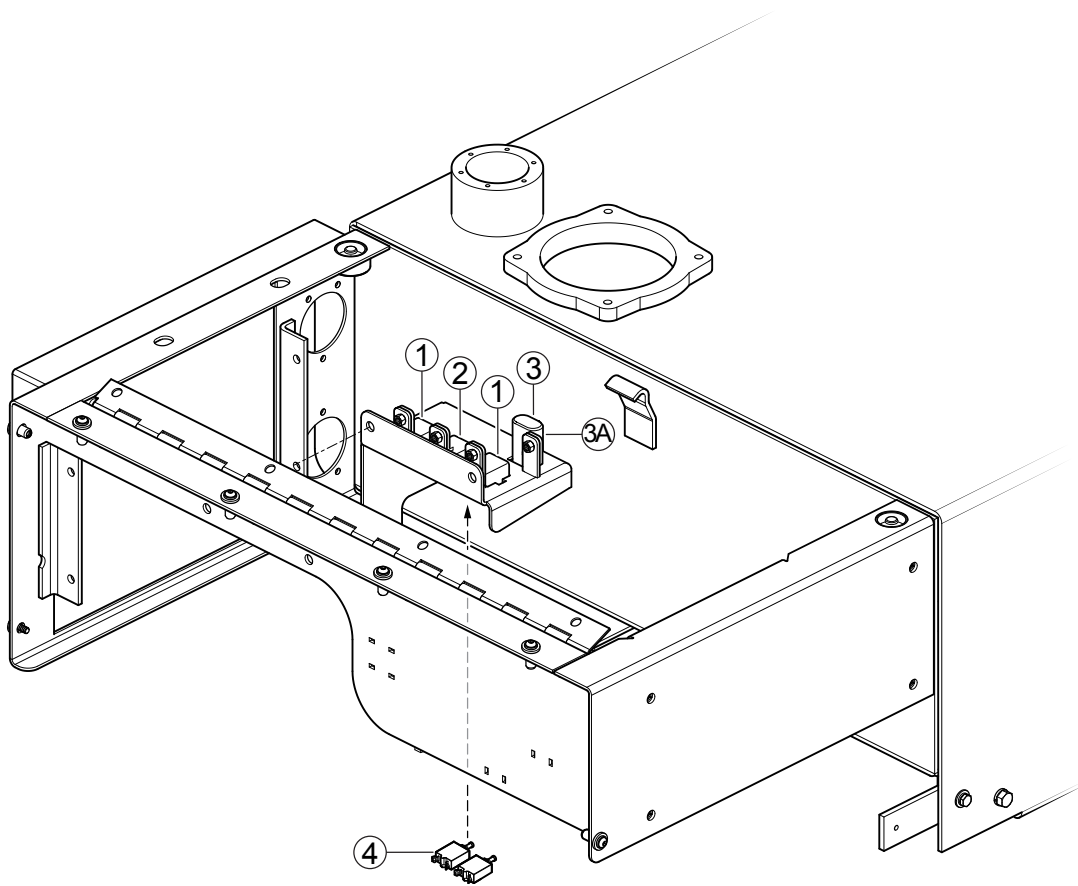


## FUEL-WATER SEPARATOR ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>              | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-------------------------------|-------------|----------------|
| 2          | 803182          | BRACKET, FUEL/WATER SEPARATOR | 1           |                |
| 3          | 100286          | BOLT, M12 X 25P-1.75          | 2           |                |
| 4          | 506208          | CLAMP                         | 6           |                |
| 5          | 514536          | HOSE, 4FLH 5/16" .....        | AR .....    | 1 PC=1 FT      |
| 6          | 514560          | ELBOW, 90°                    | 2           |                |
| 7          | 26560201        | FUEL FILTER W/O-RING          | 1           |                |
| 8          | 2656F837        | BOWL, PLASTIC F/W SEPARATOR   | 1           |                |
| 9          | EM20763         | FILTER, FUEL IN-LINE          | 1           |                |
| 10         | EM963057        | CAP SCREW, 3/8" X 1-1/2"      | 2           |                |
| 11         | EM969013        | NUT, NYLOK                    | 2           |                |

# FUSES AND RELAYS ASSY.

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## **FUSES AND RELAYS ASSY.**

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| <b><u>NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>PART NAME</u></b>      | <b><u>QTY.</u></b> | <b><u>REMARKS</u></b> |
|-------------------|------------------------|------------------------------|--------------------|-----------------------|
| 1                 | EM802378               | RELAY, 40 AMP, FAN           | 2                  |                       |
| 2                 | EM802515               | RELAY, 80 AMP, ENG. PRE-HEAT | 1                  |                       |
| 3                 | EM98066                | FUSE HOLDER, 30 AMP MAIN     | 1                  |                       |
| 3A                | 23284300               | FUSE, 30 AMP ATC/ATO         | 1                  |                       |
| 4                 | 515848                 | CIRCUIT BREAKER, 50 AMP      | 2                  |                       |

# PARTS MANUAL

## HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL  
NUMBER ON-HAND WHEN CALLING

### UNITED STATES

#### ***Multiquip Inc.***

(310) 537- 3700  
6141 Katella Avenue Suite 200  
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E-MAIL: [mq@multiquip.com](mailto:mq@multiquip.com)  
WEBSITE: [www.multiquip.com](http://www.multiquip.com)

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### CANADA

#### ***Multiquip***

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