



**Fisher Engineering**

**27775, 28069, 57000**

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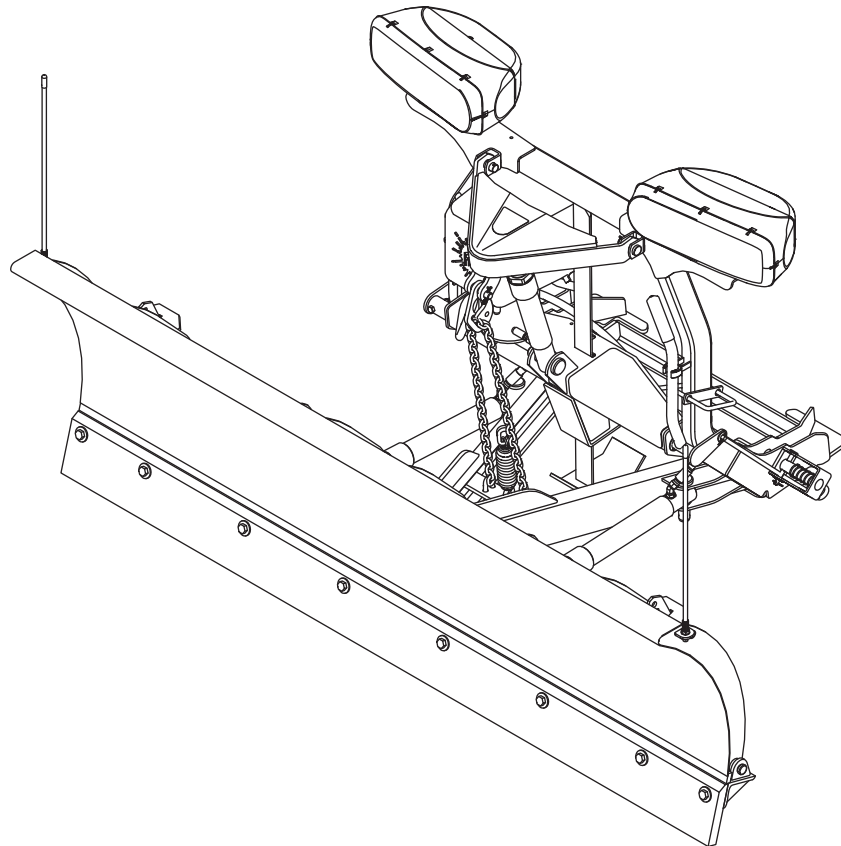
**Minute<sup>2</sup>**  
SYSTEM



# Blade and Off-Truck Kit

## SD Series Snowplow

### Parts List

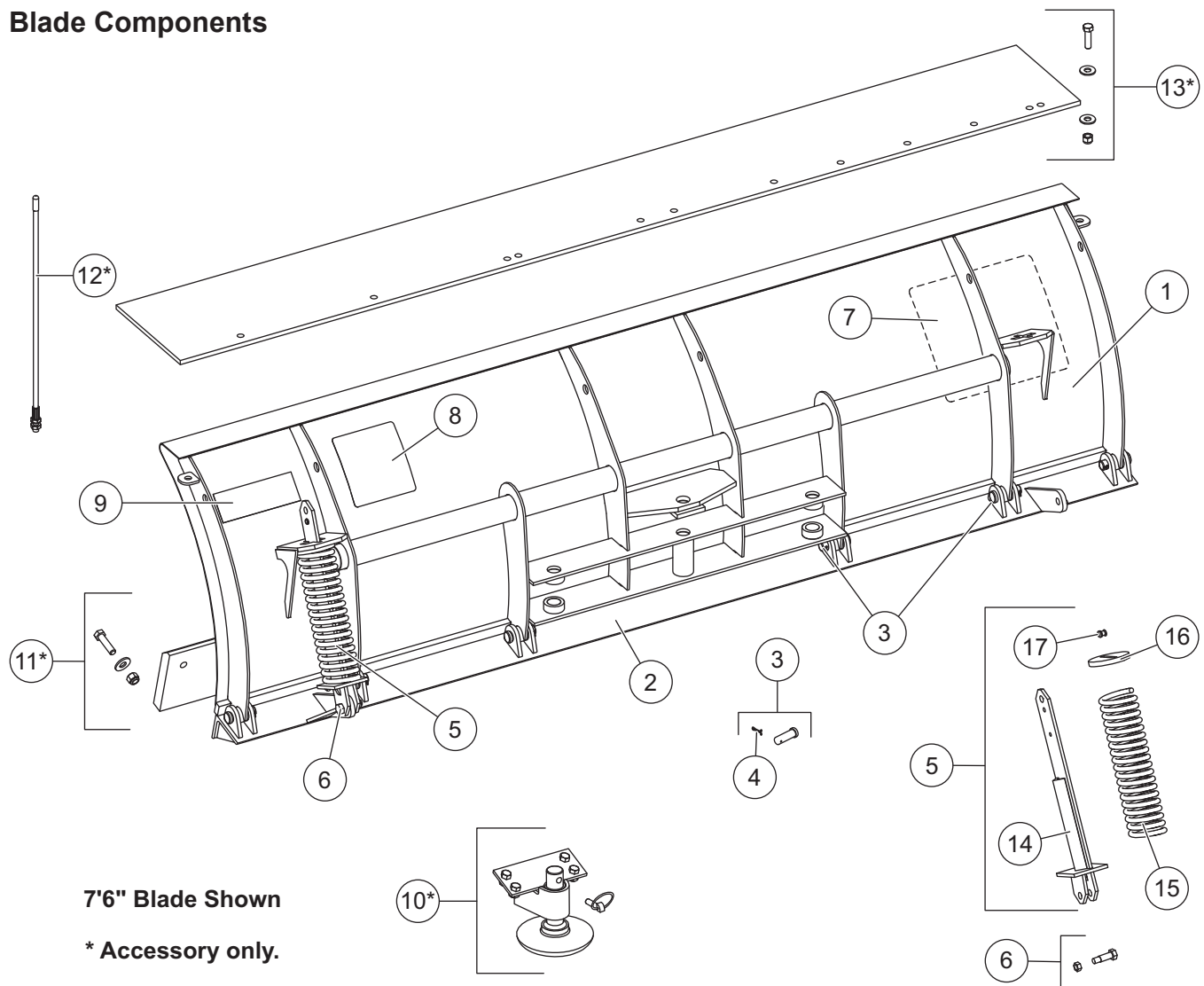


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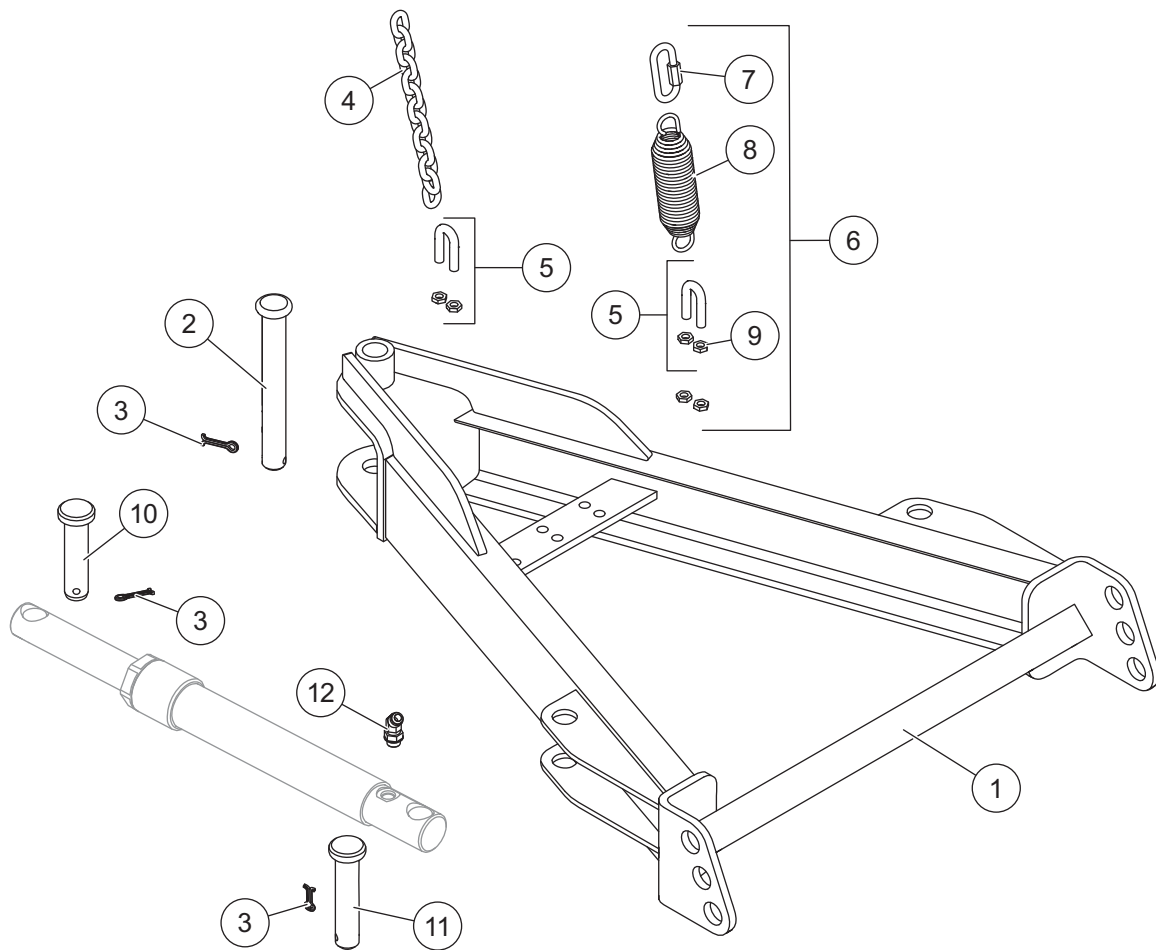


## Blade Components



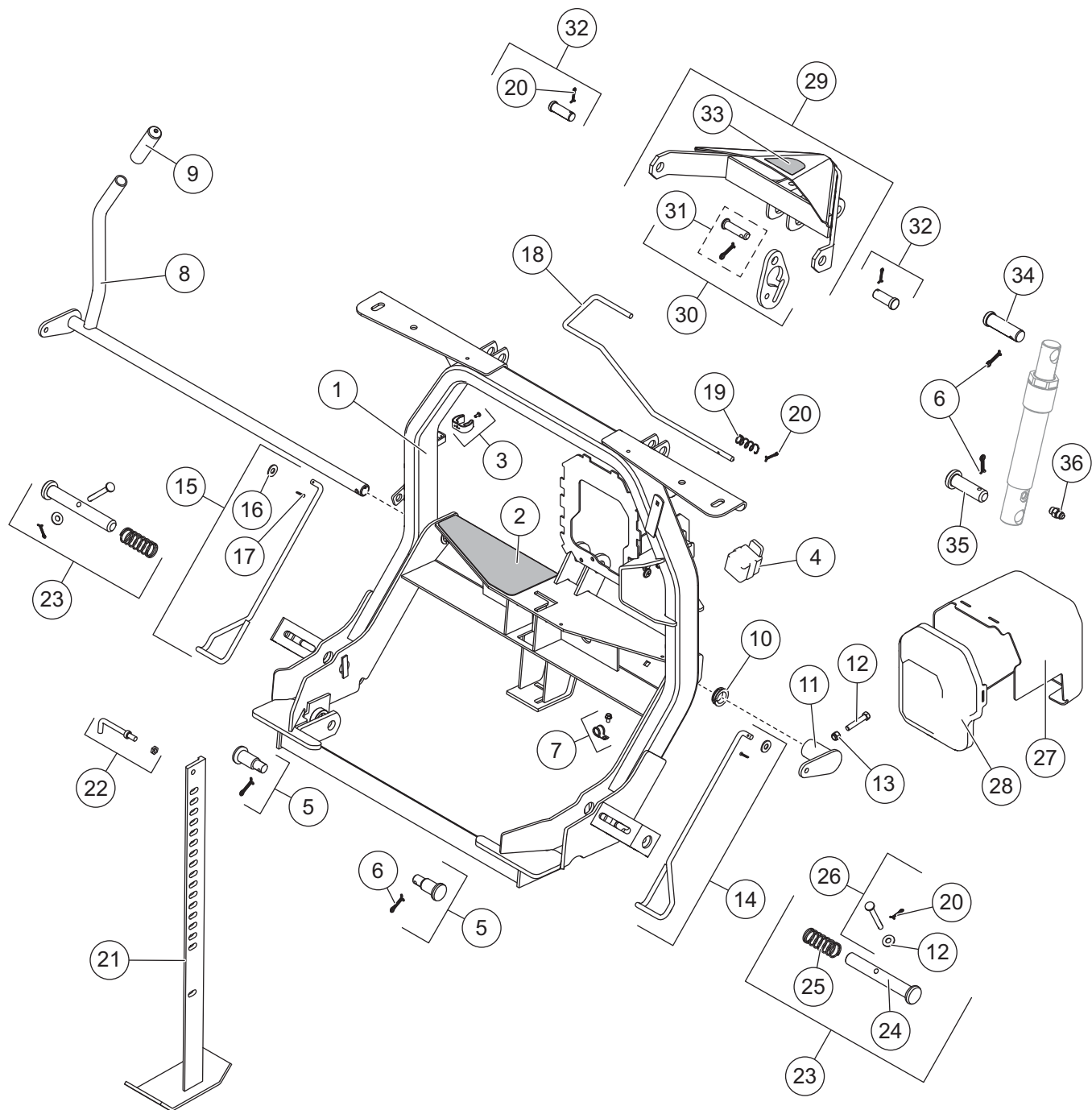
| Blade Components                              |       |     |                                             |                |         |     |                                    |
|-----------------------------------------------|-------|-----|---------------------------------------------|----------------|---------|-----|------------------------------------|
| Item                                          | Part  | Qty | Description                                 | Item           | Part    | Qty | Description                        |
| 1                                             | 28069 | 1   | 6'9" SD Blade Assembly (includes items 2–8) | 8              | 59900   | 1   | Label – Warning/Caution, Snowplows |
|                                               | 27775 | 1   | 7'6" SD Blade Assembly (includes items 2–8) | 9              | 26211   | 1   | Label – Logo, STORM GUARD™         |
| 2                                             | 28003 | 1   | 6'9" Base Angle                             | 10*            | 27880   | 1   | Shoe Kit (set of 2)                |
|                                               | 27824 | 1   | 7'6" Base Angle                             | 11*            | 22215   | 1   | Poly Cutting Edge Kit – 6'9"       |
| 3                                             | 84844 | 6   | 3/4 x 2-3/16 Pin Kit                        |                | 22216   | 1   | Poly Cutting Edge Kit – 7'6"       |
| 4                                             | 90658 | 6   | 5/32 x 1-1/4 Cotter Pin                     | ns             | 5532*   | 1   | Steel Cutting Edge Kit – 7'6"      |
| 5                                             | 21452 | 2   | Removable Spring Assembly                   | 12*            | 7906K   | 1   | Blade Guides Kit (set of 2)        |
| 6                                             | 40905 | 2   | Shoulder Bolt and Locknut                   | 13*            | 22470-1 | 1   | Rubber Deflector Kit               |
| 7                                             | 20238 | 1   | Label – Logo, FISHER® Splatter              | ns             | 22269*  | 1   | Steel Deflector Kit – 6'9"         |
|                                               |       |     |                                             |                | 283*    | 1   | Steel Deflector Kit – 7'6"         |
|                                               |       |     |                                             | ns             | 44405*  | 1   | Curb Guard Kit – 6'9" Blade        |
| <b>Item 5 21452 Removable Spring Assembly</b> |       |     |                                             |                |         |     |                                    |
| 14                                            | 21450 | 2   | Removable Spring Bar                        | 16             | 20191   | 2   | Removable Spring Disk              |
| 15                                            | 5323  | 2   | Trip Spring                                 | 17             | 20181   | 2   | 1/4 x 1-1/4 Pin                    |
| * Accessory only.                             |       |     |                                             | ns = not shown |         |     |                                    |

## A-Frame Components



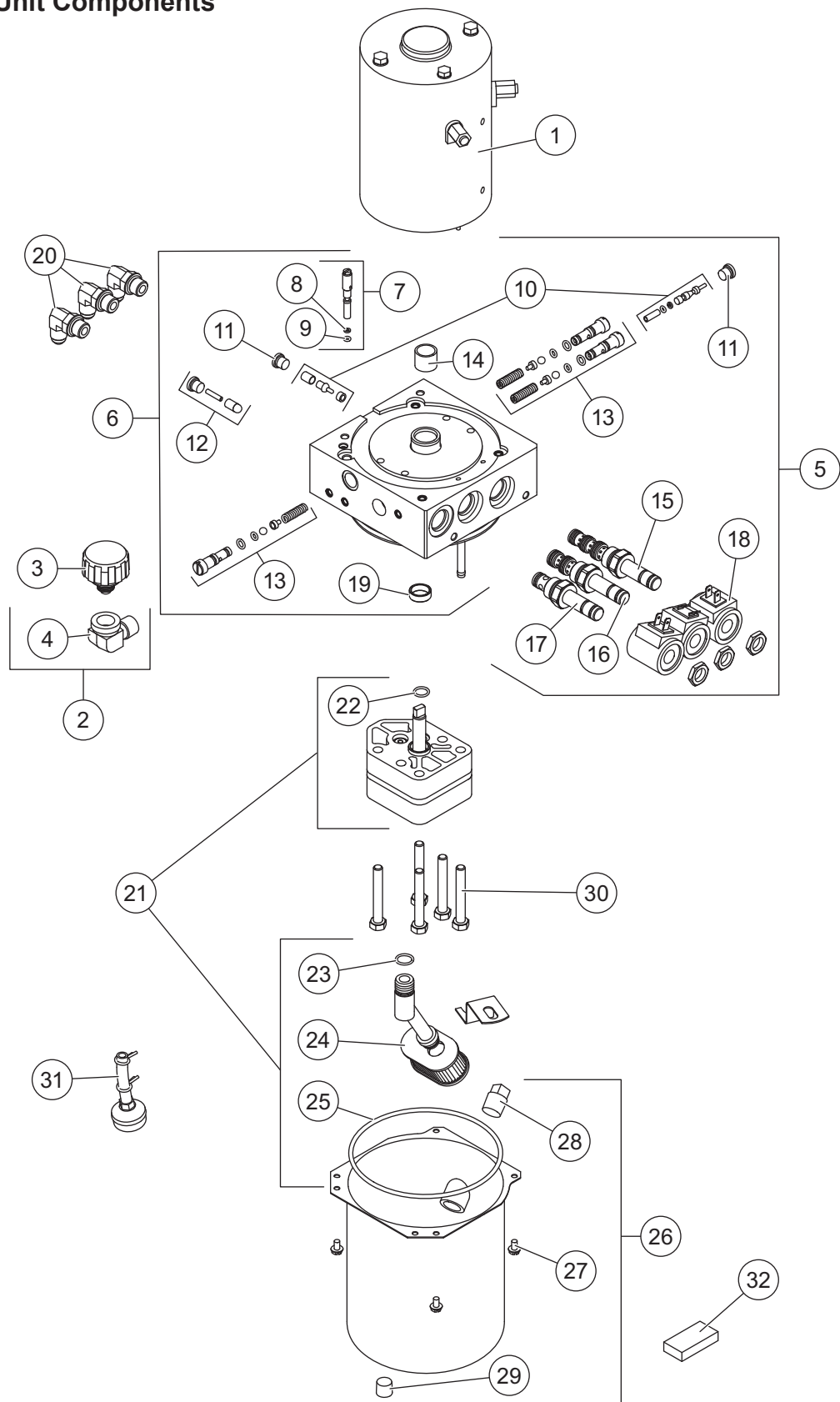
| A-Frame Components |         |     |                         |          |       |     |                              |
|--------------------|---------|-----|-------------------------|----------|-------|-----|------------------------------|
| Item               | Part    | Qty | Description             | Item     | Part  | Qty | Description                  |
| 1                  | 27995-1 | 1   | A-Frame                 | 7        | 68340 | 1   | Quick Link                   |
| 2                  | 27979   | 1   | 1 x 8 Pivot Pin         | 8        | 27074 | 1   | Spring                       |
| 3                  | 90601   | 5   | 1/4 x 1-1/2 Cotter Pin  | 9        | 91413 | 8   | 3/8-16 Hex Nut G5            |
| 4                  | 27912-1 | 1   | 5/16 G30 Lift Chain Bag | 10       | 6816  | 2   | 1 x 4 Clevis Pin             |
| 5                  | A6148K  | 3   | U-Bolt Assembly Packet  | 11       | 22260 | 2   | 1 x 4-3/4 Clevis Pin         |
| 6                  | 49521   | 1   | Spring/U-Bolt/Link Kit  | 12       | 56726 | 2   | Elbow, 45° -6 M JIC/-6 M ORB |
| G = Grade          |         |     |                         | M = Male |       |     |                              |

## Headgear Components



| Headgear Components |          |     |                                        |                   |         |     |                                   |
|---------------------|----------|-----|----------------------------------------|-------------------|---------|-----|-----------------------------------|
| Item                | Part     | Qty | Description                            | Item              | Part    | Qty | Description                       |
| 1                   | 49528    | 1   | Headgear                               | 19                | 27461   | 1   | 3/4 x 3-1/2 Compression Spring    |
| 2                   | 27451    | 1   | Label – Attach/Detach, Minute Mount® 2 | 20                | 90658   | 5   | 5/32 x 1-1/4 Cotter Pin           |
| 3                   | 27162K-1 | 1   | Stop Clip Kit                          | 21                | 27741   | 1   | Jack, SD                          |
| 4                   | 8284K    | 1   | Cable Boot                             | 22                | 27164K  | 1   | Handle Kit                        |
| 5                   | 27177K   | 1   | Step Pin Kit                           | 23                | 27168K  | 2   | Connecting Pin Kit                |
| 6                   | 90601    | 5   | 1/4 x 1-1/2 Cotter Pin                 | 24                | 26833   | 2   | 1 x 6-15/16 Clevis Pin            |
| 7                   | 49522    | 2   | Clamp Loop Kit                         | 25                | 821     | 2   | 1 x 3-1/2 Compression Spring      |
| 8                   | 27468    | 1   | Handle – Link Arm Assembly             | 26                | 26219   | 2   | 3/8 x 3-1/4 Clevis Pin Kit        |
| 9                   | 27535    | 1   | Handle Cover Kit                       | 27                | 68312-1 | 1   | Hydraulic Unit Cover, Front       |
| 10                  | 27163K   | 1   | Snap-In Bushing Kit (pkg of 2)         | 28                | 68313-1 | 1   | Hydraulic Unit Cover, Rear        |
| 11                  | 27465    | 1   | Link Arm                               | 29                | 26757-1 | 1   | Lift Arm Kit, Yellow              |
| 12                  | 90043    | 1   | 3/8-16 x 2 Hex Cap Screw G5            | 30                | 28991   | 1   | Stop Link Kit                     |
| 13                  | 91333    | 1   | 3/8 x 16 Hex Locknut GB                | 31                | 29037   | 1   | 5/8 x 2-5/8 Clevis Pin w/Cotter   |
| 14                  | 27167K   | 1   | Wire Cam Kit – PS                      | 32                | 4289K   | 2   | 3/4 x 1-7/8 Machine Pin Packet    |
| 15                  | 27166K   | 1   | Wire Cam Kit – DS                      | 33                | 26777   | 1   | Label – Nameplate, Minute Mount 2 |
| 16                  | 90315    | 4   | 3/8 Flat Washer Type A Wide            | 34                | 95720   | 1   | 1 x 3-5/16 Clevis Pin HT          |
| 17                  | 91902    | 2   | 1/8 x 1 Cotter Pin                     | 35                | 6814    | 1   | 1 x 3-5/16 Clevis Pin             |
| 18                  | 27478    | 1   | Jack Lock                              | 36                | 49526   | 1   | Connector, –6 M JIC/ –6 M ORB     |
|                     |          |     |                                        | ns                | 69689   | 1   | Label – Logo, SECURITY GUARD™     |
| ns = not shown      |          |     |                                        | G = Grade         |         |     |                                   |
|                     |          |     |                                        | M = Male          |         |     |                                   |
|                     |          |     |                                        | HT = Heat Treated |         |     |                                   |

Hydraulic Unit Components

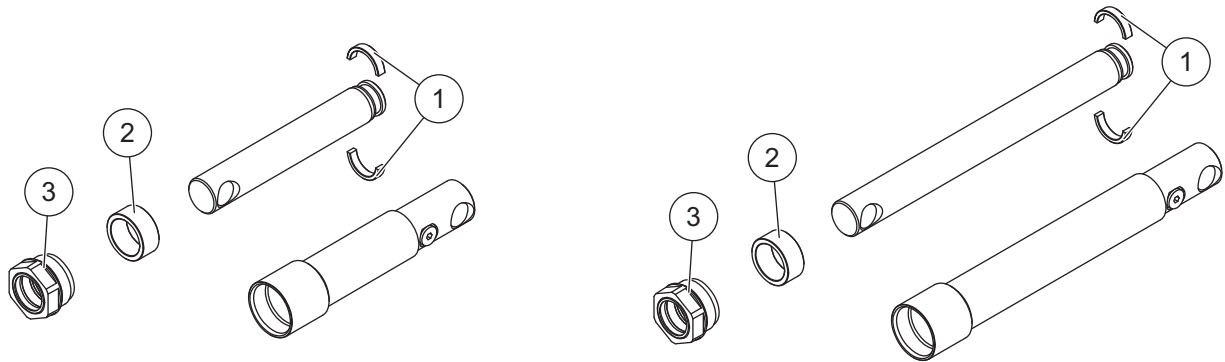


| 42295 Hydraulic Unit 2500 psi<br>42290 Hydraulic Unit Service Kit |          |     |                                             |            |          |     |                                                                |
|-------------------------------------------------------------------|----------|-----|---------------------------------------------|------------|----------|-----|----------------------------------------------------------------|
| Item                                                              | Part     | Qty | Description                                 | Item       | Part     | Qty | Description                                                    |
| 1                                                                 | 21500K-1 | 1   | Motor, 4-1/2"                               | 18         | 7639K-2  | 3   | Coil w/Spades                                                  |
| 2                                                                 | 22344K   | 1   | Elbow, Street 90° w/Breather                | 19**       | 66515    | 1   | Pump Shaft Seal                                                |
| 3                                                                 | 21727-2  | 1   | Breather Pressure Control                   | 20         | 77929    | 3   | Elbow, 90° –6 M JIC/–6 M ORB                                   |
| 4                                                                 | 21726    | 1   | Elbow, Street 90° 3/8 M NPTF/<br>3/8 F NPTF | 21         | 21501K-1 | 1   | Hydraulic Pump Kit                                             |
| 5                                                                 | 42294-2  | 1   | Valve Manifold Assembly                     | 22         | 56274    | 1   | O-Ring -013                                                    |
| 6                                                                 | 42292-2  | 1   | Manifold Assembly                           | 23         | 56416    | 1   | O-Ring -014                                                    |
| 7                                                                 | 56662    | 1   | Quill Assembly                              | 24         | 26781-4  | 1   | Suction Filter                                                 |
| 8                                                                 | 56315    | 1   | Back-Up Ring -006                           | 25         | 66519    | 1   | O-Ring 2-250                                                   |
| 9                                                                 | 25622    | 1   | O-Ring -006                                 | 26         | 21830    | 1   | Reservoir Kit                                                  |
| 10                                                                | 7630K    | 1   | Poppet Check Valve Kit                      | 27         | 66607    | 4   | #10-24 x 5/16 Slotted Hex<br>Washer-Head Machine Screw         |
| 11                                                                | 92960    | 2   | Plug, Hex Socket –3 M ORB                   | 28         | 92079    | 1   | Plug, Square 3/8 NPTF                                          |
| 12                                                                | 56507    | 1   | Bypass Check Valve Kit                      | 29         | 92095    | 1   | Plug, Hex Socket 1/4 NPTF w/<br>Thread Sealant – SAE 130109N/P |
| 13                                                                | 7629K-4  | 2   | Relief Valve Kit (set of 2)                 | 30         | 90073    | 5   | 5/16-18 x 2-1/4 Hex Cap Screw                                  |
| 14*                                                               | 64596-1  | 1   | Sleeve Bearing and Shaft Seal Kit           | 31         | 66405    | 1   | Return Screen Assembly                                         |
| 15                                                                | 7637K-1  | 1   | Cartridge Valve, 4-Way w/Nut                | 32         | 73897    | 1   | Magnet                                                         |
| 16                                                                | 66608K-1 | 1   | Cartridge Valve, 3-Way w/Nut                |            |          |     |                                                                |
| 17                                                                | 7634K-2  | 1   | Valve, 2-Way w/Nut                          |            |          |     |                                                                |
| O-Ring Service Kits                                               |          |     |                                             |            |          |     |                                                                |
| –                                                                 | 7632K-5  | –   | O-Ring & Back-Up Ring Kit                   | –          | 49259-2  | –   | Seal Kit, 3-Way & 4-Way Valve                                  |
| –                                                                 | 49258-2  | –   | Seal Kit, 2-Way Valve                       |            |          |     |                                                                |
| M = Male                                                          |          |     |                                             | F = Female |          |     |                                                                |

\* Use 64589 tool for bearing sleeve replacement (includes 1 bearing).

\*\* Use 28856 tool for pump shaft seal replacement (includes 1 seal).

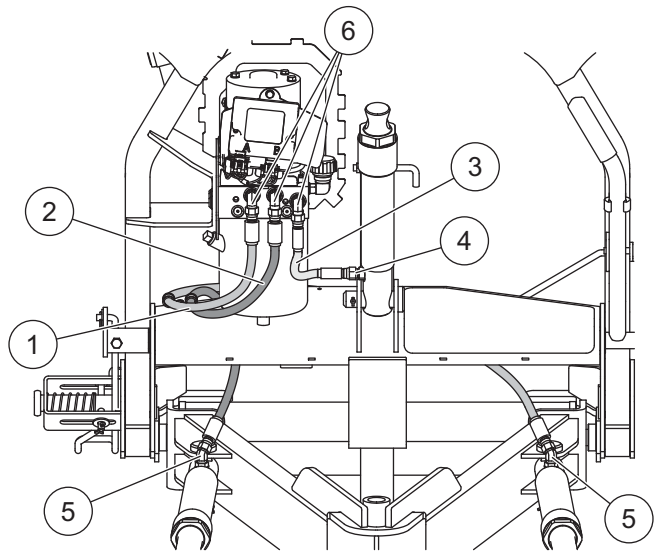
Lift Ram and Angle Ram Components



| 56718 Lift Ram Assembly 1-1/2 x 6 |        |     |                    |
|-----------------------------------|--------|-----|--------------------|
| Item                              | Part   | Qty | Description        |
| 1                                 | 20118K | 1   | Split Bearing Kit  |
| 2                                 | 56537  | 1   | Spacer             |
| 3                                 | 48985  | 1   | Gland Nut Assembly |
| ns = not shown                    |        |     |                    |

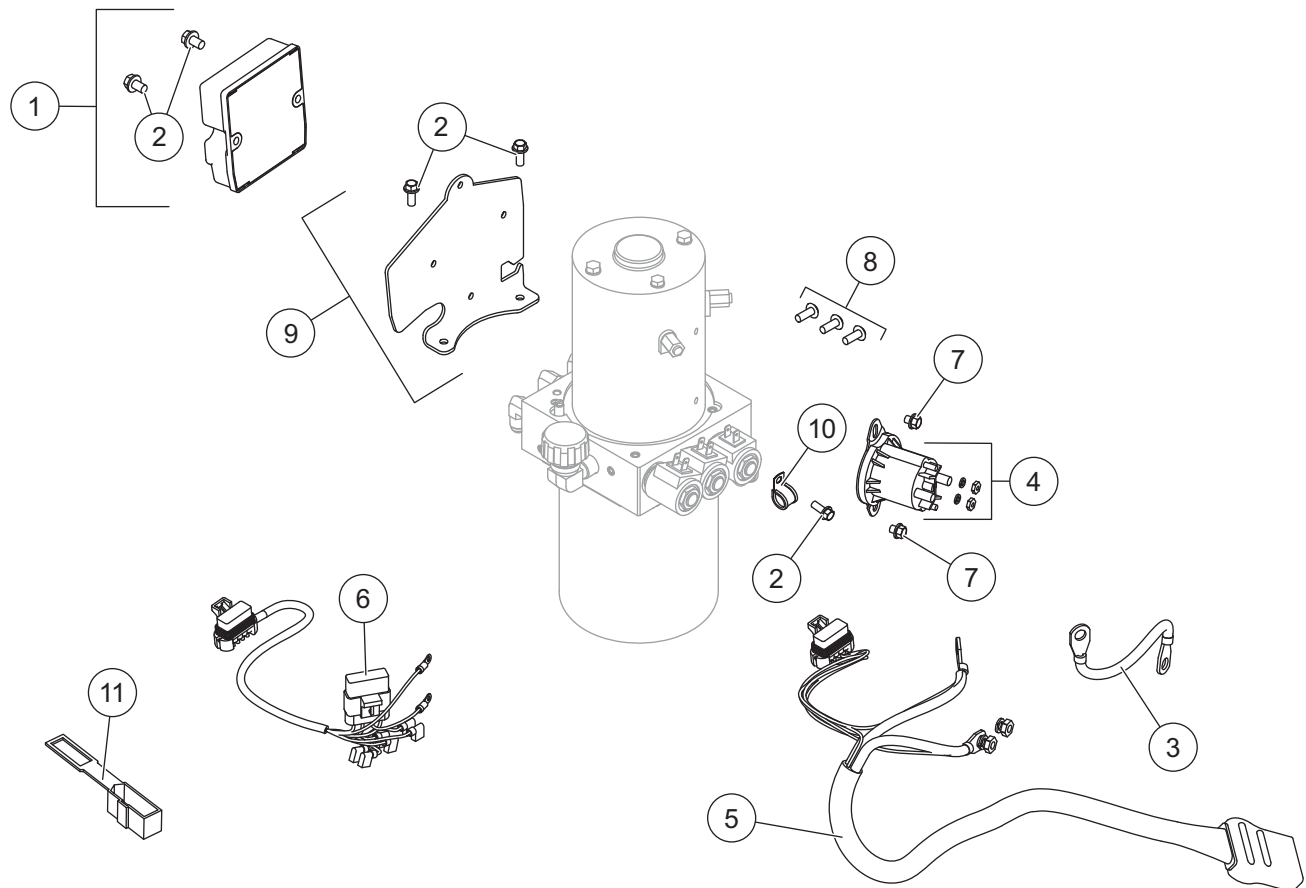
| 56600K Angle Ram Assembly 1-1/2 x 10 |        |     |                    |
|--------------------------------------|--------|-----|--------------------|
| Item                                 | Part   | Qty | Description        |
| 1                                    | 20118K | 1   | Split Bearing Kit  |
| 2                                    | 56537  | 1   | Spacer             |
| 3                                    | 48985  | 1   | Gland Nut Assembly |
| ns = not shown                       |        |     |                    |

Hoses and Fittings



| Hoses and Fittings |       |          |                                       |
|--------------------|-------|----------|---------------------------------------|
| Item               | Part  | Qty      | Description                           |
| 1                  | 44348 | 1        | Hose, 3/8 x 42 w/F JIC Ends           |
| 2                  | 44866 | 1        | Hose, 3/8 x 32 w/F JIC Ends           |
| 3                  | 56832 | 1        | Hose, 1/4 x 8 w/F JIC Ends            |
| 4                  | 49526 | 1        | Connector, -6 M JIC/-6 M ORB          |
| 5                  | 56726 | 2        | Elbow, 45° -6 M JIC/-6 M ORB          |
| 6                  | 77929 | 3        | Elbow, 90° -6 M JIC/-6 M ORB w/Screen |
| F = Female         |       | M = Male |                                       |

## Electrical Components



### Plow-Side Electrical Components

| Item | Part    | Qty | Description                                       | Item | Part  | Qty | Description                                       |
|------|---------|-----|---------------------------------------------------|------|-------|-----|---------------------------------------------------|
| 1    | 49567   | 1   | Plow Module, 2-Port                               | 7    | 29099 | 2   | 1/4-20 x 1/4 Hex Washer-Head Thread-Rolling Screw |
| 2    | 44355   | 5   | 1/4-20 x 5/8 Hex Washer-Head Thread-Rolling Screw | 8    | 98043 | 3   | 3/8-16 x 1 Button Cap Screw                       |
| 3    | 29071   | 1   | Cable Assembly 8"                                 | 9    | 42287 | 1   | Bracket - Plow Module                             |
| 4    | 42901   | 1   | Motor Relay Kit FLEET FLEX                        | 10   | 49522 | 1   | Clamp Loop Kit                                    |
| 5    | 42015   | 1   | Snowplow Battery Cable                            | ns   | 56099 | 1   | Dielectric Grease                                 |
| 6    | 28581-1 | 1   | Harness Plow Control, 3-Solenoid                  |      |       |     |                                                   |

ns = not shown

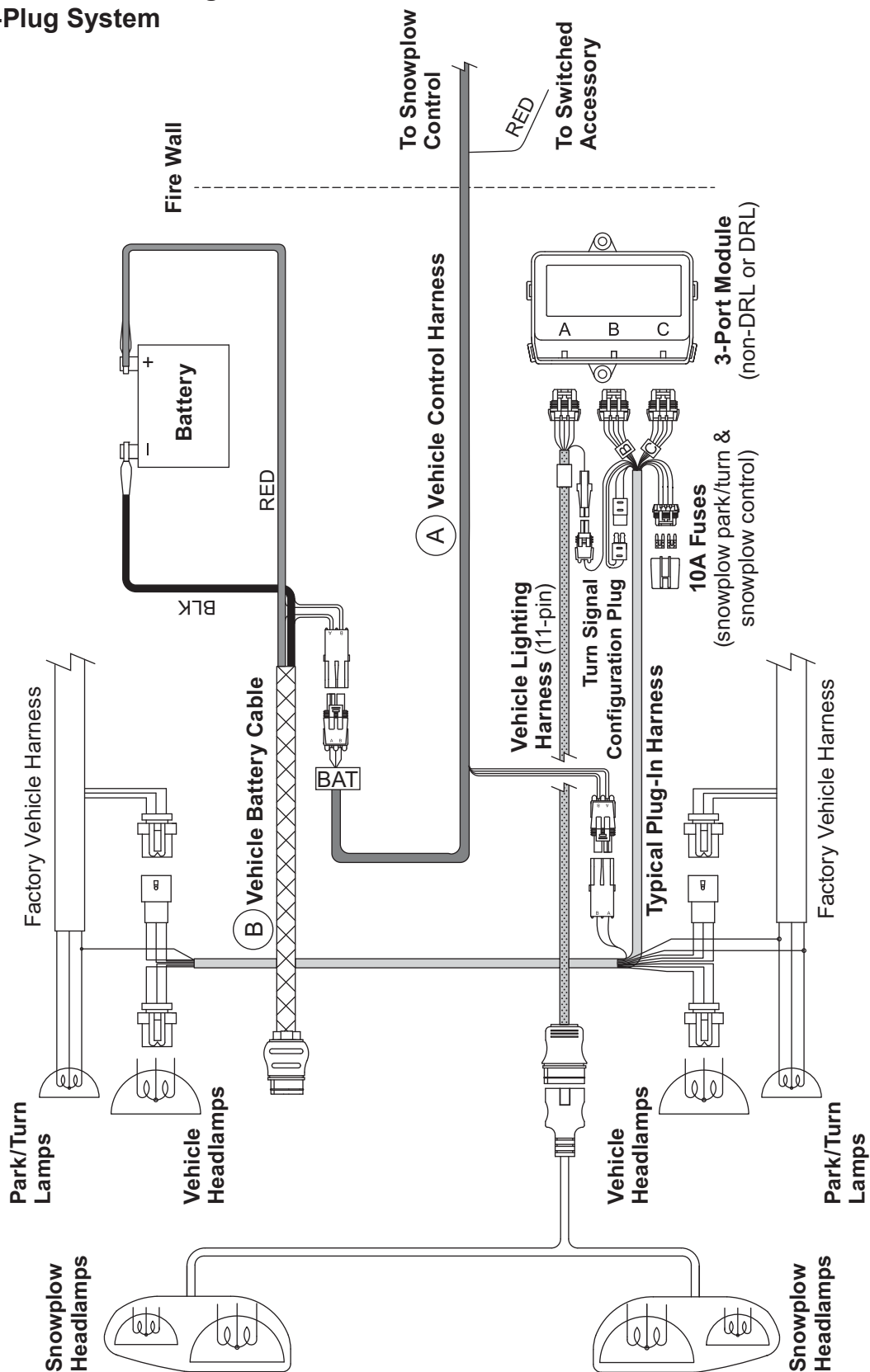
### Vehicle-Side Electrical Components

(diagram on following page)

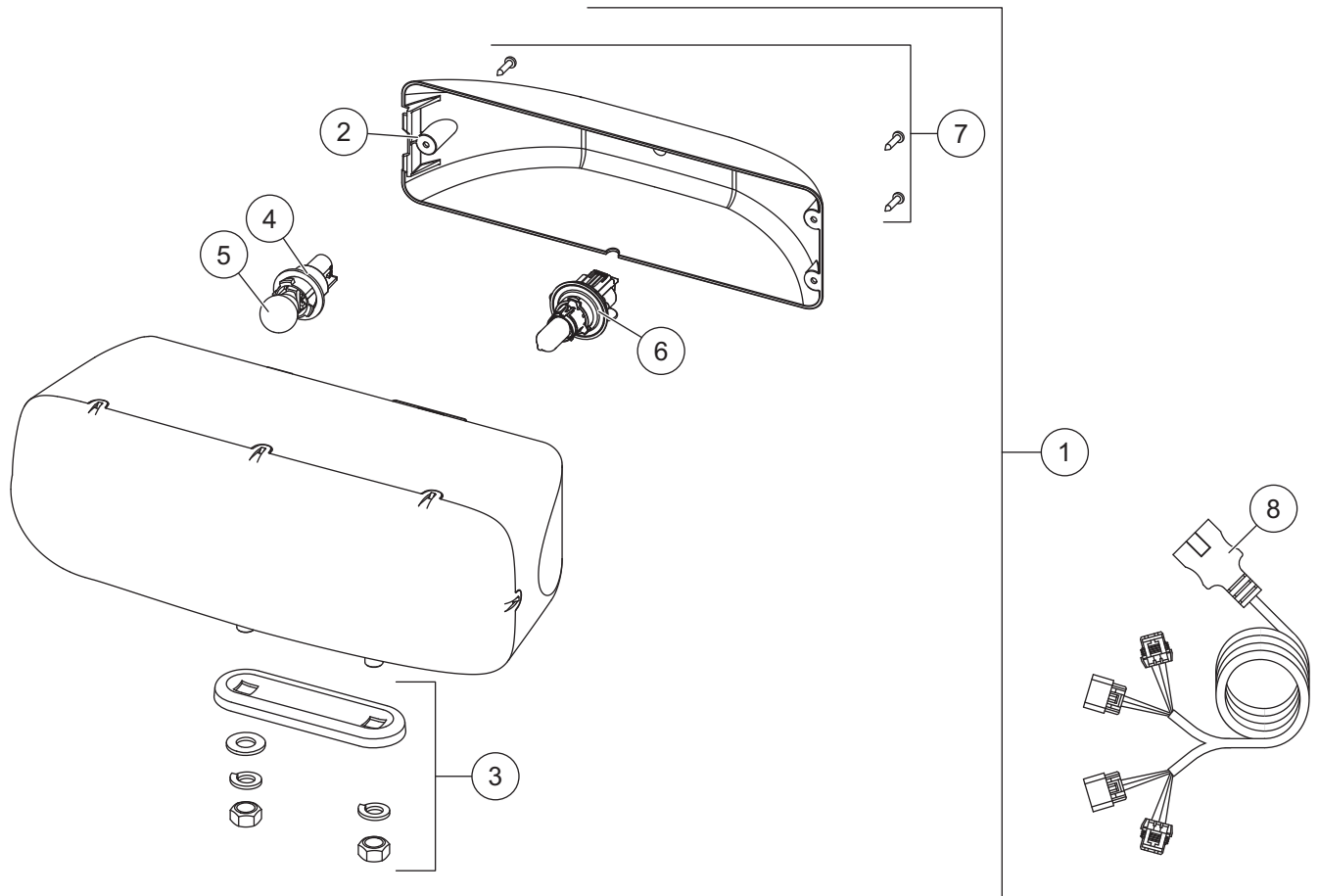
|    |       |   |                         |    |        |   |                                                               |
|----|-------|---|-------------------------|----|--------|---|---------------------------------------------------------------|
| A* | 28587 | 1 | Vehicle Control Harness | 11 | 61548K | 1 | Plug Cover (shown above with plow-side electrical components) |
| B* | 42014 | 1 | Vehicle Battery Cable   |    |        |   |                                                               |

\*See Vehicle-Side Harness Diagram on following page.

# Vehicle-Side Harness Diagram 3-Port, 2-Plug System



Headlamp Kit



| 28800-1 Headlamp Kit (pair) |         |     |                                     |      |         |     |                                     |
|-----------------------------|---------|-----|-------------------------------------|------|---------|-----|-------------------------------------|
| Item                        | Part    | Qty | Description                         | Item | Part    | Qty | Description                         |
| 1                           | 28802-1 | 1   | Headlamp Service Kit – PS           | 5    |         | 2   | Park/Turn Bulb (trade no. 4157NAK)  |
| ns                          | 28801-1 | 1   | Headlamp Service Kit – DS           | 6    | 28806   | 2   | Headlamp Bulb Service Kit H13       |
| 2                           | 28803-1 | 2   | Rear Cover Kit (fits 2- or 3-screw) | 7    | 28808-1 | 2   | Cover Screws Service Kit (pkg of 3) |
| 3                           | 28804   | 2   | Mounting Hardware Kit               | 8    | 28213K  | 1   | Harness Service Kit, Plow Lighting  |
| 4                           | 28805   | 2   | Park/Turn Socket Service Kit        |      |         |     |                                     |
| ns = not shown              |         |     |                                     |      |         |     |                                     |



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