



**COMPACT WHEEL LOADERS**  
**7020, 7020BH**  
**Parts Catalog 8-3370**

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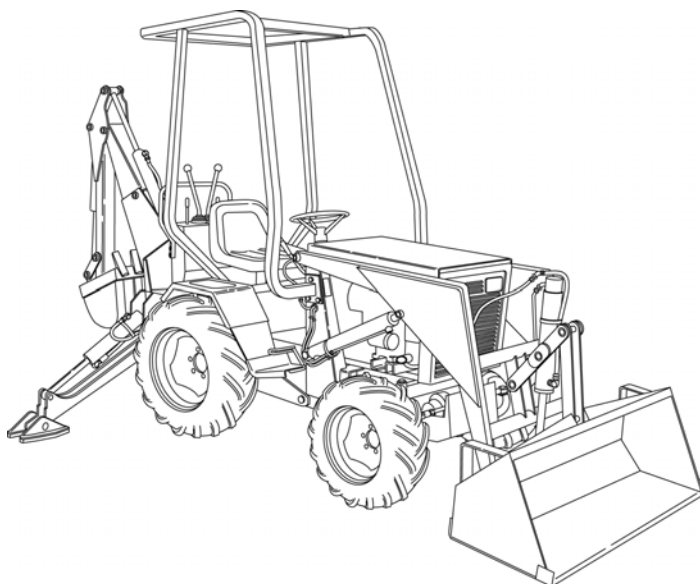
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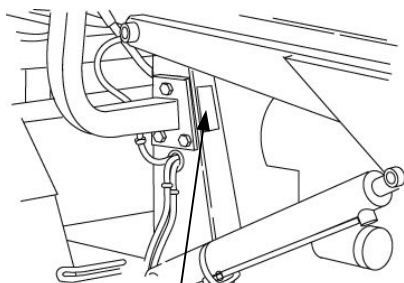
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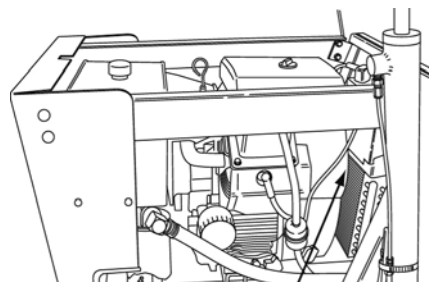


## INDEX

### PRODUCT IDENTIFICATION NUMBERS (PIN) AND SERIAL NUMBERS (S/N)



**TRACTOR MODEL  
AND PIN NUMBER**



**KOHLER ENGINE MODEL, SERIAL  
AND SPECIFICATION NUMBERS**

**NOTE:** This catalog contains references to serial or PIN numbers. Use these numbers as a guide to identify the correct part.

**NOTE:** Engine parts and warranty must be obtained from your local engine distributor.

| TRACTOR MODEL | ENGINE MODEL                                          |
|---------------|-------------------------------------------------------|
| 7020 - 7020BH | C47630 ENGINE<br>KOHLER MODEL CH20<br>SPEC. NO. 64666 |

## INDEX

There is an index at the front of this catalog. The front index is an alphabetical index of the major groups or assemblies.

## ILLUSTRATION

Each illustration in this catalog shows a group of parts or components. These parts and components are aligned approximately as the parts and components on your machine. Each part and component in an illustration has a reference number. These reference numbers are in a list on the page opposite of the illustration. Next to the reference number is the part number, description and required quantity of the part shown in the illustration.

UAR - "Use as required" indicates that the part quantity is variable.

NSS - "Not sold separately" indicates that the part is only available as component of an assembly or the part must be purchased locally. If the part is an assembly component, the description will be indented under the assembly description in the parts list.

O/L - "Obtain locally"

- "Footnotes" are added to a part number when more information is needed for identification. They only relate to the part numbers indicated.

All orders must include the following information:

1. Correct part number.

## PARTS ORDERS

2. Complete description of part or component.
3. Total quantity of each part or component.
4. Product model number.
5. All necessary product identification numbers.
6. Method for sending the parts.
7. Complete and correct address.

## CATALOG REVISIONS

As the product changes, new pages will be available for your catalog. A notice will be issued.

**IMPORTANT:** Put all revisions into the catalog as soon as possible.

## RIGHT HAND AND LEFT HAND IDENTIFICATION

The words right hand (RH) and left hand (LH) as used in this catalog indicate the direction while you are in the operator's seat in the normal operating position.

## INDENTED DESCRIPTIONS

An assembly can have many components. The components of an assembly are indicated by an indented description. The quantity for an indented part is the total needed for that complete assembly. See the example.

| REF. | PART NO. | DESCRIPTION                          | REQ'D |
|------|----------|--------------------------------------|-------|
|      | C 55159  | CYLINDER ASSY - rear steering .....  | 1     |
| 28   | C 56208  | SOCKET ASSY - rear cylinder .....    | 1     |
| 29   | C 55956  | PLUG - adjusting, socket assy .....  | 1     |
| 30   | C 55957  | SEAT- socket, ball .....             | 2     |
| 31   | C 56210  | SPRING-socket .....                  | 1     |
| 32   | C 56209  | SEAT - socket spring .....           | 1     |
| 33   | G 45175  | CLAMP ASSY - socket assy .....       | 1     |
|      | 16- 836  | BOLT-1/2"x2-1/4" N.F. hex .....      | 1     |
| 34   | 132- 104 | PIN-cotter, 3/16"x3" .....           | 1     |
| 35   | C 55889  | STUD - ball, socket & cylinder ..... | 2     |
| 36   | 13- 410  | BOLT-1/4"x5/8"N.C.,hex .....         | 4     |
| 37   | 92- 4    | LOCK WASHER - 1/4"SAE .....          | 4     |



# Ingersoll

## Paint & Oil

### INDEX

#### PAINT

##### **Power Red Gloss**

16-ounce Aerosol Can..... C28484  
Quart ..... C28485

##### **Power White**

16-ounce Aerosol Can..... C28812  
Quart ..... C28845

##### **Power Yellow** (Older 600 Series)

16-ounce Aerosol Can..... C28847  
Quart ..... C28848

##### **Power Tan** (6000 Series)

16-ounce Aerosol Can..... C28853  
Quart ..... C28854

##### **Desert Sunset** (Older 400 Series)

16-ounce Aerosol Can..... C28846  
Quart ..... C28852

##### **Black, Semi Gloss**

16-ounce Aerosol Can..... C28849  
Quart ..... C28850

##### **Black, High Heat**

16-ounce Aerosol Can..... C28851

##### **Silver**

16-ounce Aerosol Can..... C30870

##### **M & W Plum**

16-ounce Aerosol Can..... 10-5688

##### **Grazer Grey**

16-ounce Aerosol Can..... C38444  
Quart ..... C38982

##### **Odyssey Charcoal Grey**

16-ounce Aerosol Can..... C47171

#### HYDRAULIC OIL

**20W40**, Use 32 Degrees and above.

12-Quart Case..... C32778

**5W20**, Use Below 32 Degrees.

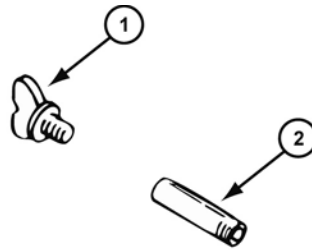
12-Quart Case..... C32777

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| Hydraulic System – Backhoes .....   | 33    | Seat - Operator's .....                  | 17    |
| Coupling, Pump Drive .....          | 43    | Steering Wheel .....                     | 35    |
| Cylinder - Arms .....               | 53    | Tool Tray .....                          | 17    |
| Cylinder - Bucket .....             | 53    | Transmission .....                       | 27    |
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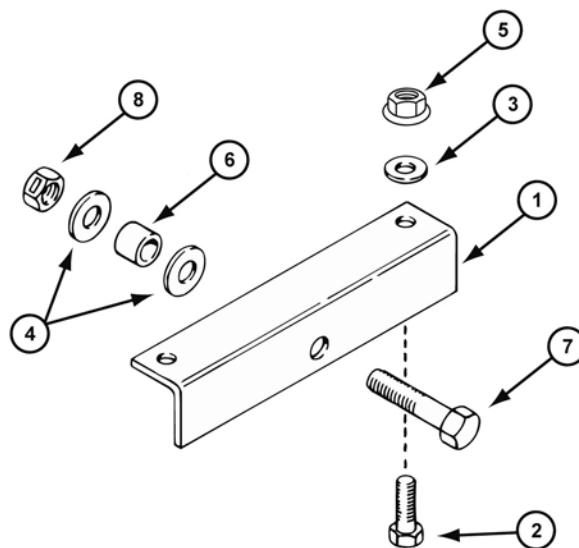
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### ENGINE OIL DRAIN



## INDEX

### REAR ENGINE MOUNTS

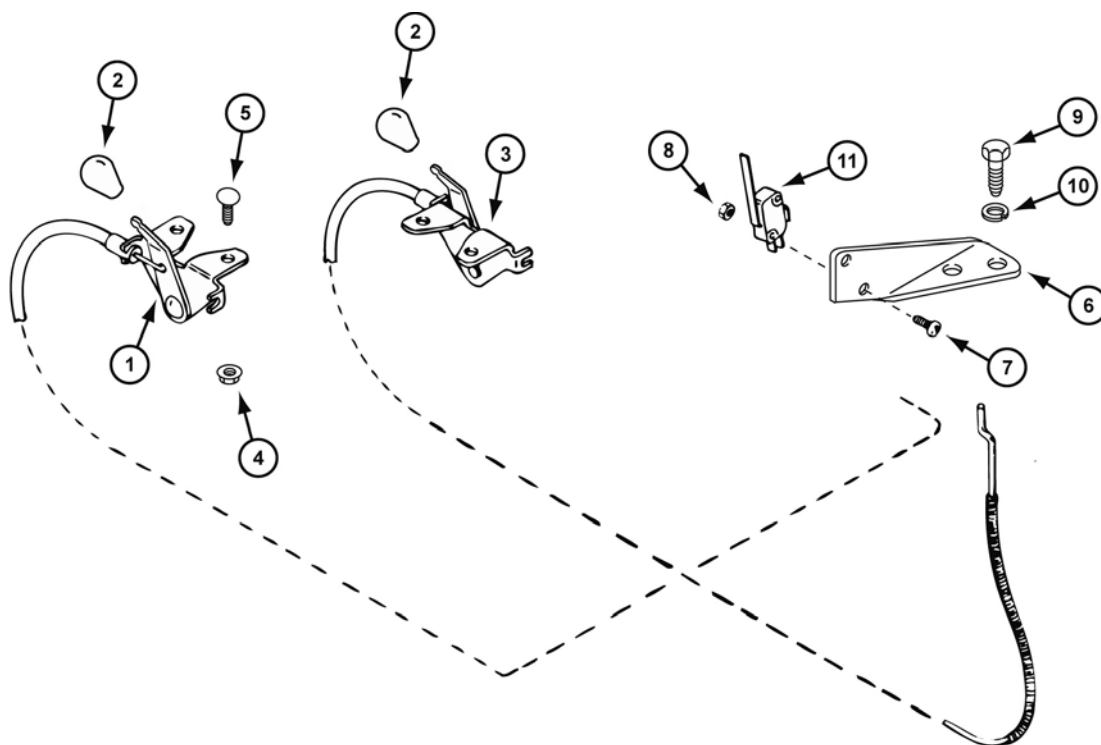
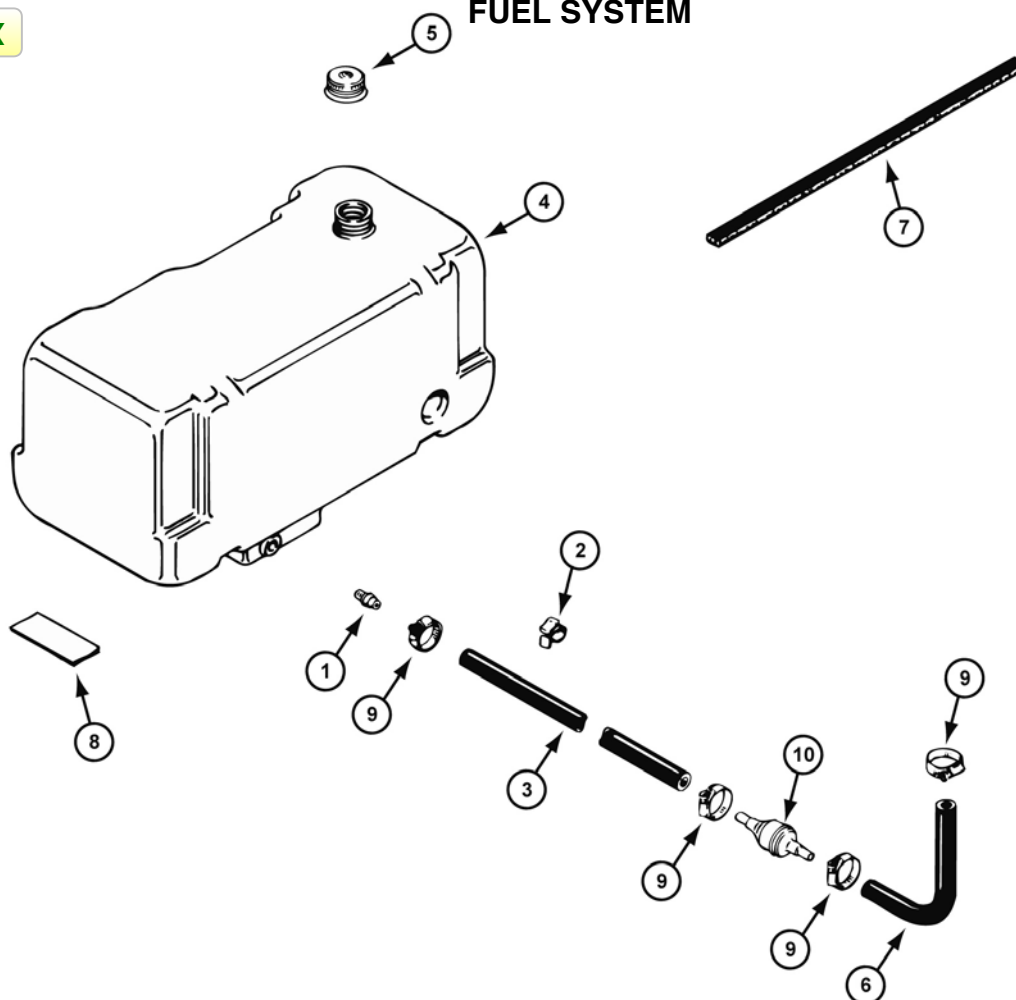


**ENGINE OIL DRAIN**

| REF. | PART NO. | DESCRIPTION                                   | REQ'D |
|------|----------|-----------------------------------------------|-------|
| 1    | 218-5154 | PLUG - oil drain (Kohler engine).....         | 1     |
| 2    | C37148   | NIPPLE - pipe 3/8" x 2" (Kohler engine) ..... | 1     |

**REAR ENGINE MOUNTS**

|   |          |                                   |   |
|---|----------|-----------------------------------|---|
| 1 | C22949   | MOUNT - engine, rear .....        | 1 |
| 2 | 113-233  | BOLT - 3/8" - 16 x 1-3/4" .....   | 4 |
| 3 | 195-103  | WASHER - 3/8" .....               | 4 |
| 4 | 195-533  | WASHER - 1/2" .....               | 4 |
| 5 | 131-1352 | NUT - 3/8" - 16 flange lock ..... | 4 |
| 6 | C21652   | BUSHING - mount .....             | 1 |
| 7 | 113-441  | BOLT - 1/2" - 13 x 2-1/4" .....   | 1 |
| 8 | 131-1182 | NUT - lock 1/2" - 13 .....        | 1 |

**INDEX****CHOKE AND THROTTLE CABLES****INDEX****FUEL SYSTEM**

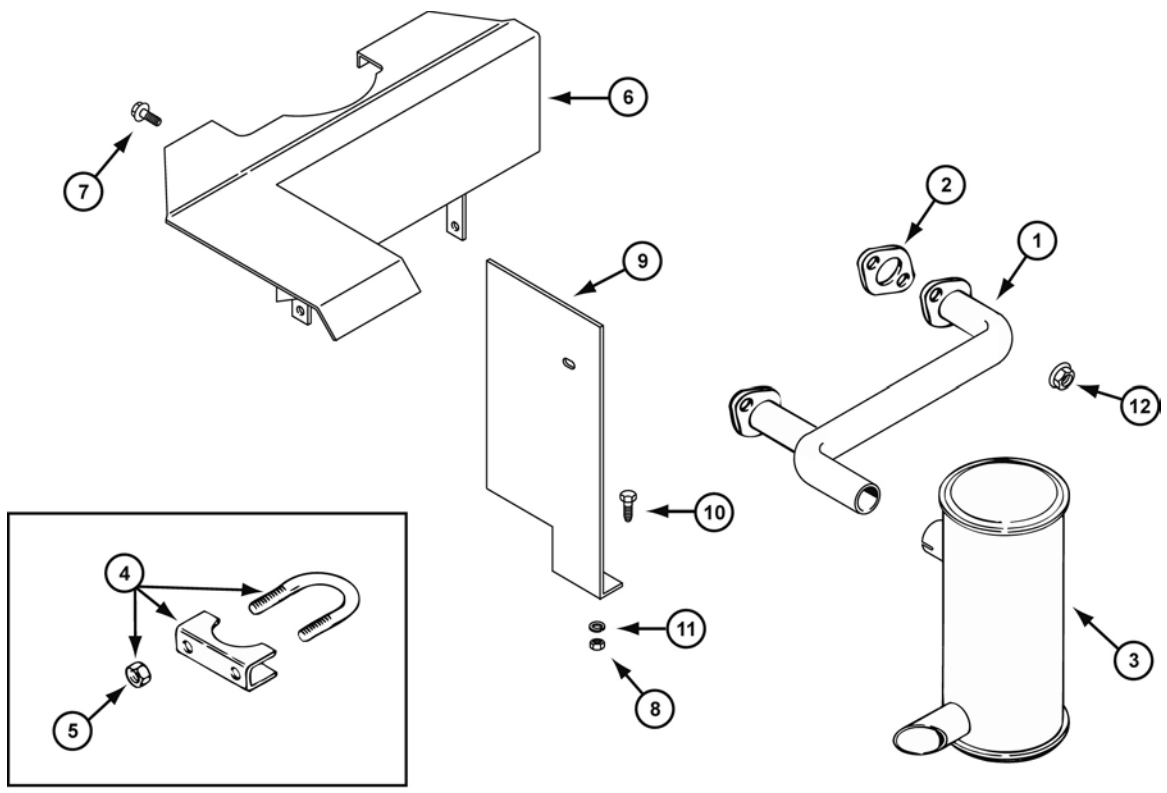
**INDEX****CHOKE AND THROTTLE CONTROLS**

| REF. | PART NO. | DESCRIPTION                                     | REQ'D |
|------|----------|-------------------------------------------------|-------|
| 1    | C46373   | CONTROL - throttle .....                        | 1     |
| 2    | C35291   | KNOB - choke/throttle .....                     | 2     |
| 3    | C46886   | CONTROL - choke .....                           | 1     |
| 4    | C34117   | NUT - No. 10 - 24 flange lock .....             | 2     |
| 5    | 111-5    | BOLT - No. 10 - 24 x 5/8" black, carriage ..... | 2     |
| 6    | C47707   | BRACKET - inter-lock switch mount .....         | 1     |
| 7    | 182-10   | SCREW - #4 - 40 x 7/8" .....                    | 2     |
| 8    | C33697   | NUT - #4 - 40 .....                             | 2     |
| 9    | 861-C1   | SCREW - M5 - .8 x 8 .....                       | 2     |
| 10   | 192-18   | LOCKWASHER - #10 .....                          | 2     |
| 11   | C30275   | SWITCH - inter-lock .....                       | 1     |

**INDEX****FUEL SYSTEM (TRACTOR)**

|    |        |                                                          |   |
|----|--------|----------------------------------------------------------|---|
| 1  | C26521 | FITTING - hose 1/8" - 27 NPTF .....                      | 1 |
| 2  | C28962 | RETAINER - fuel line .....                               | 1 |
| 3  | NSS    | HOSE - fuel line, long (use C28937 cut to length) .....  | 1 |
| 4  | C32089 | TANK - fuel .....                                        | 1 |
| 5  | C11529 | CAP - fuel tank .....                                    | 1 |
| 6  | NSS    | HOSE - fuel line, short (use C28937 cut to length) ..... | 1 |
| 7  | C23527 | LINER - tank .....                                       | 2 |
| 8  | C47205 | CUSHION - fuel tank .....                                | 4 |
| 9  | C32376 | CLAMP - hose 1/2" .....                                  | 4 |
| 10 | C31978 | FILTER - fuel .....                                      | 1 |

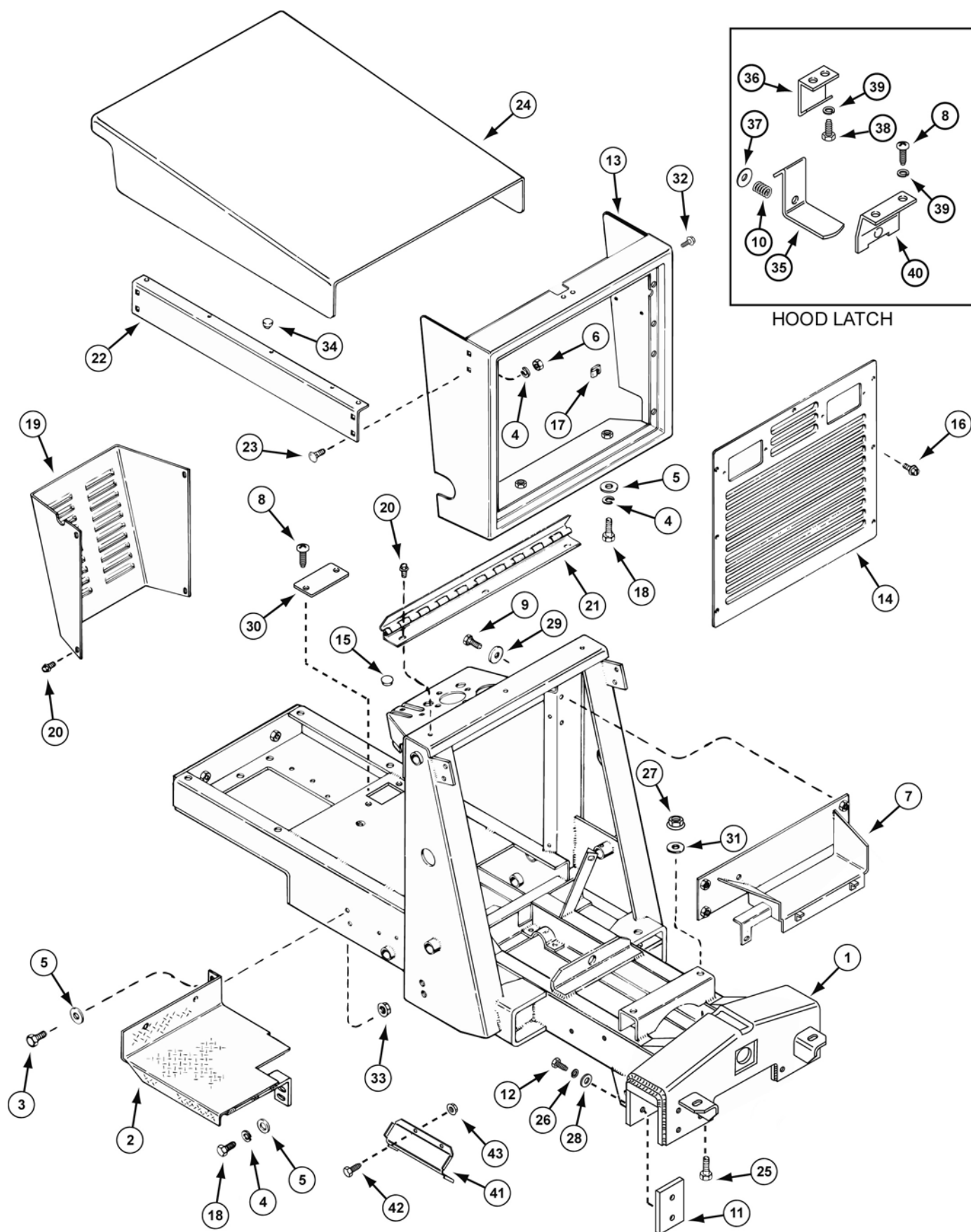
MUFFLER AND SHIELDS



**MUFFLER AND SHIELDS**

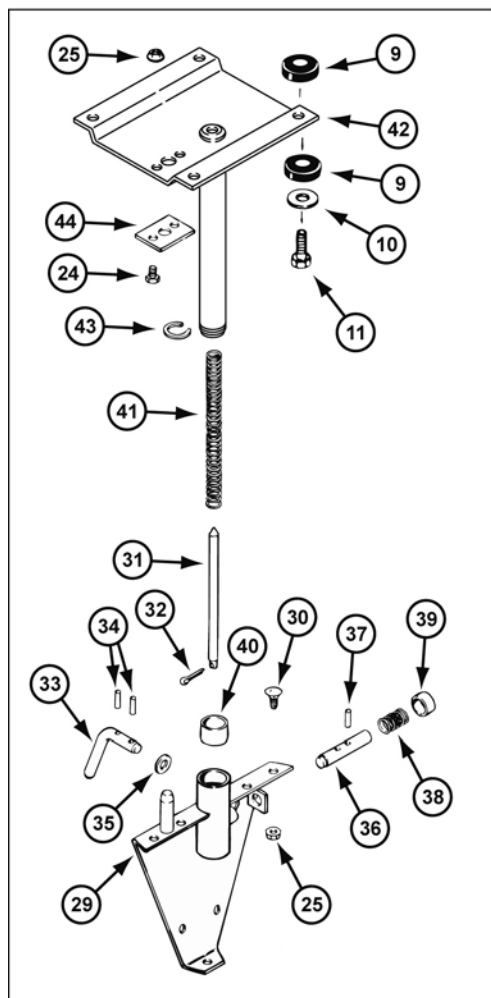
| REF. | PART NO. | DESCRIPTION                                                          | REQ'D |
|------|----------|----------------------------------------------------------------------|-------|
| 1    | C47558   | MANIFOLD - exhaust .....                                             | 1     |
| 2    | NSS      | GASKET - exhaust (Kohler engine) (see local engine distributor)..... | 2     |
| 3    | C46876   | MUFFLER - exhaust .....                                              | 1     |
| 4    | C28294   | CLAMP - muffler .....                                                | 2     |
| 5    | 129-102  | NUT - 5/16" - 18 .....                                               | 2     |
| 6    | C47554   | SHIELD - heat .....                                                  | 1     |
| 7    | 187-1036 | SCREW - 1/4" - 20 x 1/2" self tap .....                              | 2     |
| 8    | 129-101  | NUT - 1/4" - 20 .....                                                | 1     |
| 9    | C46858   | SUPPORT - oil tank .....                                             | 1     |
| 10   | 113-2    | BOLT - 1/4" - 20 x 5/8" .....                                        | 1     |
| 11   | 192-19   | LOCKWASHER - 1/4" .....                                              | 1     |
| 12   | 131-911  | NUT - 5/16" - 16 flange lock .....                                   | 4     |

# HOOD, FRAME AND GRILLE

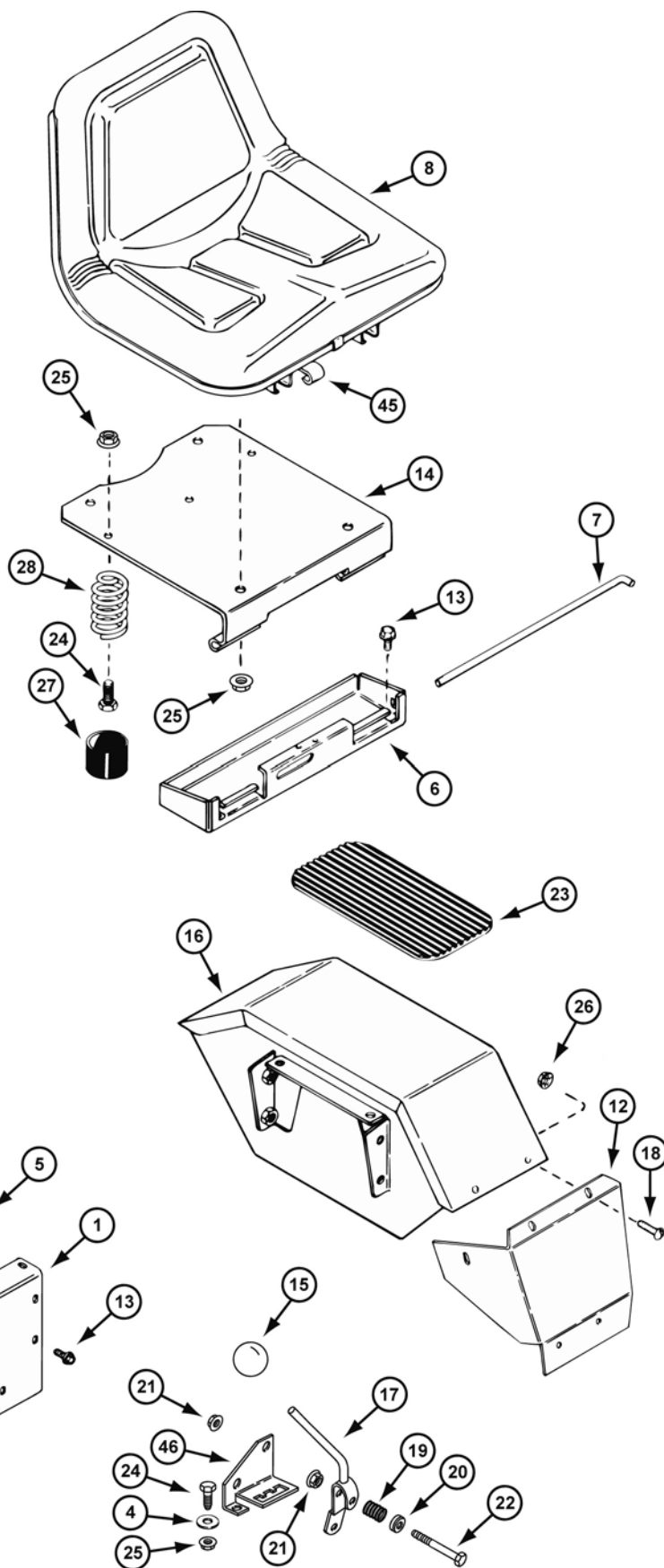


**INDEX****HOOD, FRAME AND GRILLE**

| REF. | PART NO. | DESCRIPTION                                             | REQ'D |
|------|----------|---------------------------------------------------------|-------|
| 1    | C47548   | FRAME - main (7020) shown .....                         | 1     |
| 1    | C47549   | FRAME - main (7020BH) .....                             | 1     |
| 2    | C32193   | PAD - foot L.H. (use before PIN 17193801) .....         | 1     |
| 2    | C47880   | PAD - foot L.H. (use PIN 17193801 and after) .....      | 1     |
| 2    | C32195   | PAD - foot R.H. (shown) (use before PIN 17193801) ..... | 1     |
| 2    | C47881   | PAD - foot R.H. (use PIN 17193801 and after) .....      | 1     |
| 3    | 113-206  | BOLT - 3/8" x 3/4" N.C. hex .....                       | 4     |
| 4    | 192-21   | LOCKWASHER - 3/8" .....                                 | 18    |
| 5    | 195-104  | WASHER - 3/8" .....                                     | 6     |
| 6    | 129-103  | NUT - 3/8" N.C. hex .....                               | 6     |
| 7    | C46872   | TRAY - battery .....                                    | 1     |
| 8    | 182-547  | SCREW - 1/4" - 20 X 1/2" .....                          | 4     |
| 9    | 113-102  | BOLT - 5/16" x 3/4" NC hex .....                        | 4     |
| 10   | C30827   | SPRING - tension .....                                  | 1     |
| 11   | C47782   | BAR - wear .....                                        | 4     |
| 12   | 113-103  | BOLT - 3/8" - 16 x 1" .....                             | 8     |
| 13   | C47613   | GRILLE - frame .....                                    | 1     |
| 14   | C32176   | INSERT - grille .....                                   | 1     |
| 15   | 353-406  | PLUG - hole (7020BH) .....                              | 1     |
| 16   | 187-1036 | BOLT - 1/4" - 20 x 1/2" NC self tap .....               | 9     |
| 17   | C17653   | NUT - 1/4" tinnerman .....                              | 9     |
| 18   | 113-207  | BOLT - 3/8" x 1" NC hex .....                           | 4     |
| 19   | C32044   | PANEL - dash .....                                      | 1     |
| 20   | 187-1036 | BOLT - 1/4" x 1/2" NC self tap .....                    | 7     |
| 21   | C21540   | HINGE - hood (included with hood) .....                 | 1     |
| 22   | C32124   | SUPPORT - grille .....                                  | 2     |
| 23   | 111-340  | BOLT - 3/8" x 3/4" NC carriage .....                    | 8     |
| 24   | C32040   | HOOD - includes hinge .....                             | 1     |
| 25   | 113-233  | BOLT - 3/8" - 16 x 1-3/4" (engine mounts) .....         | 4     |
| 26   | 192-21   | LOCKWASHER - 3/8" .....                                 | 8     |
| 27   | 131-1352 | NUT - 3/8" - 16 flange lock .....                       | 4     |
| 28   | 195-525  | WASHER - .406" x .812" .....                            | 8     |
| 29   | 195-521  | WASHER - 5/16" .....                                    | 4     |
| 30   | C45918   | PLATE - cover .....                                     | 1     |
| 31   | 195-103  | WASHER - 3/8" .....                                     | 4     |
| 32   | 121-21   | BOLT - 1/4" - 20 x 1/2" flange lock .....               | 2     |
| 33   | 131-938  | NUT - 3/8" - 16 flange lock .....                       | 4     |
| 34   | C18193   | BUMPER - hood .....                                     | 1     |
| 35   | C46514   | LEVER - latch .....                                     | 1     |
| 36   | C46517   | ANCHOR - latch .....                                    | 1     |
| 37   | C30768   | NUT - push .....                                        | 1     |
| 38   | 113-1    | BOLT - 1/4" - 20 x 1/2" .....                           | 2     |
| 39   | 192-19   | LOCKWASHER - 1/4" .....                                 | 4     |
| 40   | C46515   | GUIDE - lever .....                                     | 1     |
| 41   | C46983   | SHIELD - hose .....                                     | 1     |
| 42   | 113-103  | BOLT - 5/16" - 18 x 1" .....                            | 2     |
| 43   | 131-911  | NUT - 5/16" - 18 flange lock .....                      | 2     |



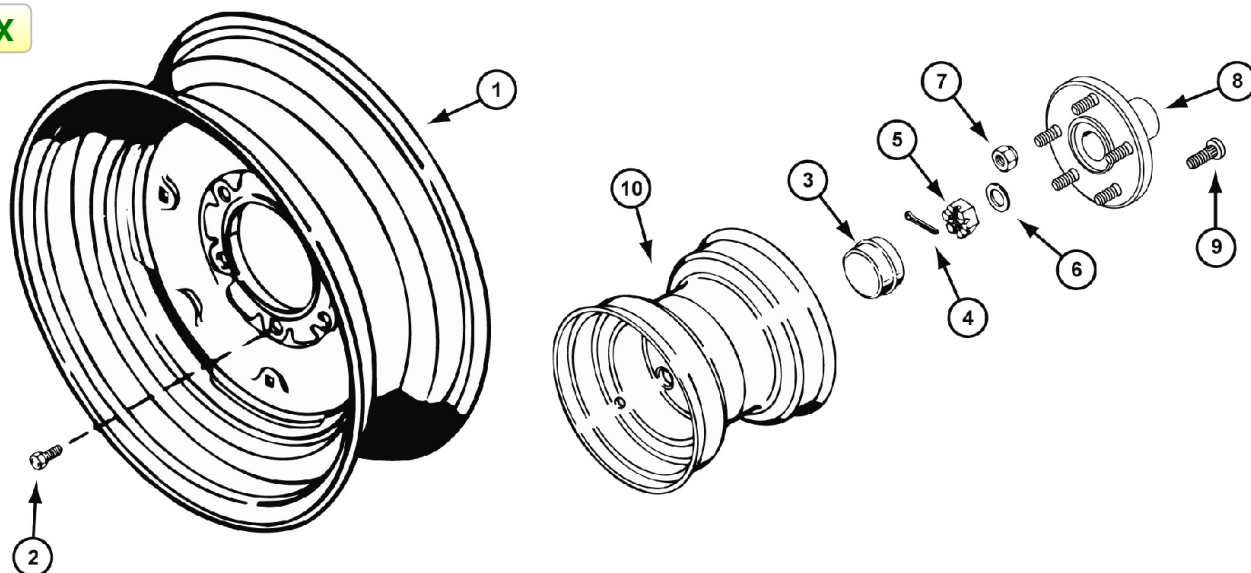
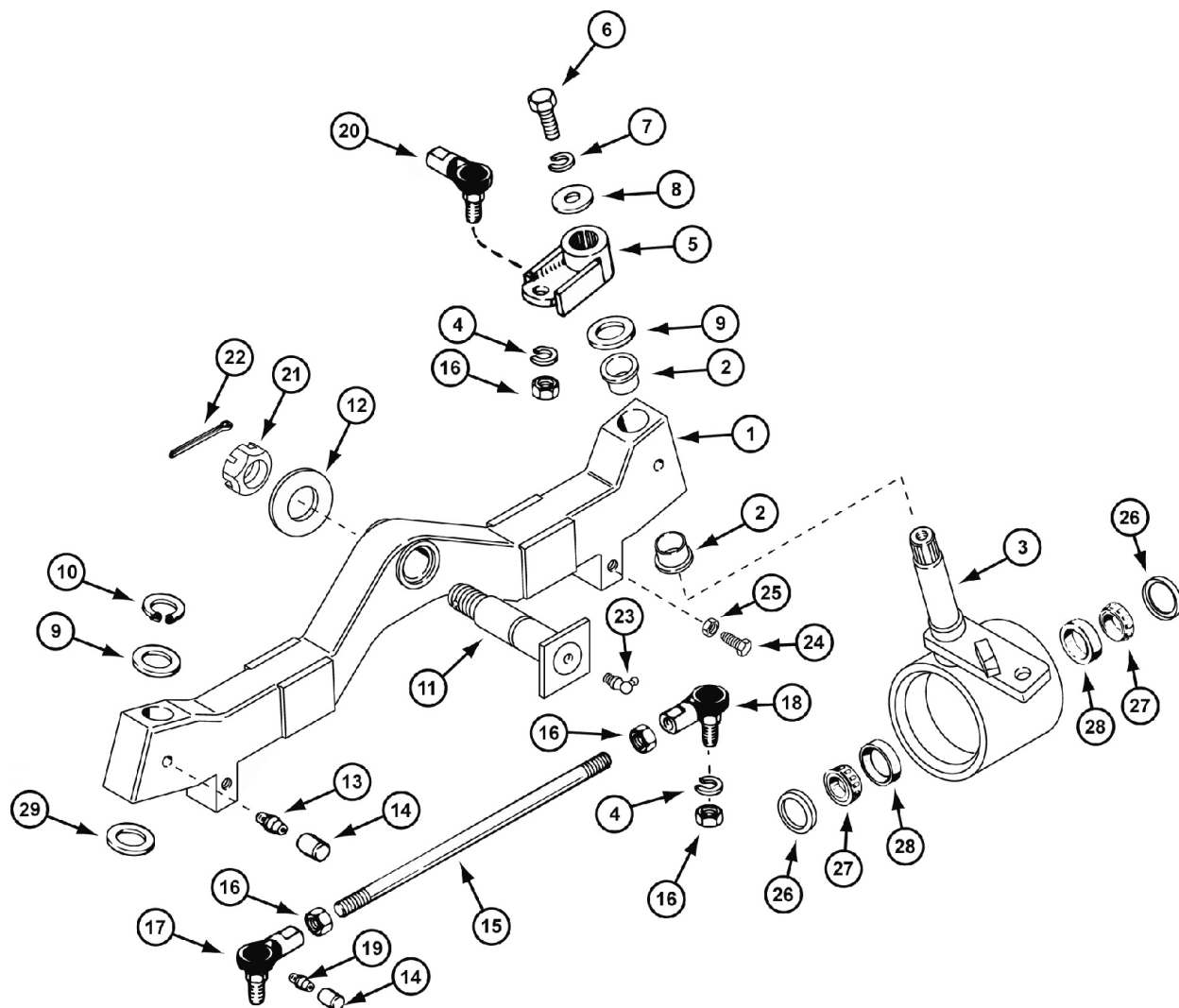
SEAT SUPPORT 6018BH, 6020BH



**INDEX****SEAT, FENDERS AND TOOL TRAY**

| REF. | PART NO. | DESCRIPTION                                                        | REQ'D |
|------|----------|--------------------------------------------------------------------|-------|
| 1    | C47620   | SUPPORT - seat, front .....                                        | 1     |
| 2    | C26698   | SUPPORT - seat, rear (7020) .....                                  | 1     |
| 2    | C33054   | SUPPORT - seat, rear (7020BH) .....                                | 1     |
| 3    | 113-424  | BOLT - 1/2" x 1" NC hex .....                                      | 4     |
| 4    | 195-521  | WASHER - 5/16" .....                                               | 1     |
| 5    | 192-23   | LOCKWASHER - 1/2" .....                                            | 4     |
| 6    | C47623   | TRAY - tool (7020) .....                                           | 1     |
| 7    | C16429   | PIN - seat hinge (7020) .....                                      | 1     |
| 8    | C44982   | SEAT .....                                                         | 1     |
| 9    | C15410   | CUSHION - rubber (7020BH) .....                                    | 4     |
| 10   | 195-2175 | WASHER - 5/16" x 1-1/4" O.D. ....                                  | 4     |
| 11   | 113-122  | BOLT - 5/16" - 18 x 1-1/2" .....                                   | 4     |
| 12   | C32417   | EXTENSION - fender L.H. (shown) (use before PIN 17193801) .....    | 1     |
| 12   | C47897   | EXTENSION - fender L.H. (shown) (use PIN 17193801 and after) ..... | 1     |
| 12   | C32418   | EXTENSION - fender R.H. (use before PIN 17193801) .....            | 1     |
| 12   | C47898   | EXTENSION - fender R.H. (use PIN 17193801 and after) .....         | 1     |
| 13   | 121-106  | BOLT - 5/16" x 1/2" NC hex flange .....                            | 14    |
| 14   | C37152   | HINGE - seat (7020) .....                                          | 1     |
| 15   | C10487   | KNOB - shift lever .....                                           | 1     |
| 16   | C32050   | FENDER - L.H. (shown) (use before PIN 17193801) .....              | 1     |
| 16   | C47899   | FENDER - L.H. (shown) (use PIN 17193801 and after) .....           | 1     |
| 16   | C32053   | FENDER - R.H. (7020BH) (use before PIN 17193801) .....             | 1     |
| 16   | C47900   | FENDER - R.H. (7020BH) (use PIN 17193801 and after) .....          | 1     |
| 16   | C47622   | FENDER - R.H. (7020) (use before PIN 17193801) .....               | 1     |
| 16   | C47901   | FENDER - R.H. (7020) (use PIN 17193801 and after) .....            | 1     |
| 17   | C47148   | LEVER - shift .....                                                | 1     |
| 18   | 182-547  | SCREW - 1/4" - 20 x 1/2" Phillips .....                            | 10    |
| 19   | C10482   | SPRING - shift lever .....                                         | 1     |
| 20   | C17066   | WASHER - cupped .....                                              | 1     |
| 21   | 131-938  | NUT - flange lock 3/8" NC hex .....                                | 2     |
| 22   | 113-259  | BOLT - 3/8" x 4-1/2" NC hex .....                                  | 1     |
| 23   | C26092   | PAD - step, fender (7020BH) .....                                  | UAR   |
| 24   | 113-102  | BOLT - 5/16" - 18 x 3/4" .....                                     | 5     |
| 25   | 131-911  | NUT - 5/16" - 18 flange lock .....                                 | 11    |
| 26   | 131-934  | NUT - 1/4" - 20 flange lock .....                                  | 10    |
| 27   | C29305   | CAP - spring (7020) .....                                          | 2     |
| 28   | C29306   | SPRING - seat (7020) .....                                         | 2     |
| 29   | C32408   | BRACKET - support .....                                            | 1     |
| 30   | 111-132  | BOLT - 5/16" - 18 x 3/4" carriage .....                            | 6     |
| 31   | C32070   | ROD - spring guide .....                                           | 1     |
| 32   | 132-320  | PIN - cotter 3/32" x 3/4" .....                                    | 1     |
| 33   | C32066   | LEVER - latch .....                                                | 1     |
| 34   | 138-2071 | PIN - spirol 3/16" x .94" .....                                    | 2     |
| 35   | C21518   | WASHER - 1/2" nylon .....                                          | 1     |
| 36   | C32067   | PIN - latch .....                                                  | 1     |
| 37   | C44068   | PIN - spirol 1/4" x 1" .....                                       | 1     |
| 38   | C24137   | SPRING - compression .....                                         | 1     |
| 39   | C32065   | SPACER - sleeve .....                                              | 1     |
| 40   | C13385   | BUSHING - bearing .....                                            | 2     |
| 41   | C32064   | SPRING - compression .....                                         | 1     |
| 42   | C46882   | POST - seat .....                                                  | 1     |
| 43   | C26342   | RING - retaining .....                                             | 1     |
| 44   | C32161   | PLATE - retainer .....                                             | 1     |
| 45   | C37848   | KIT - seat rails .....                                             | 1     |
| 46   | C47165   | GATE - range selector .....                                        | 1     |

# FRONT AXLE



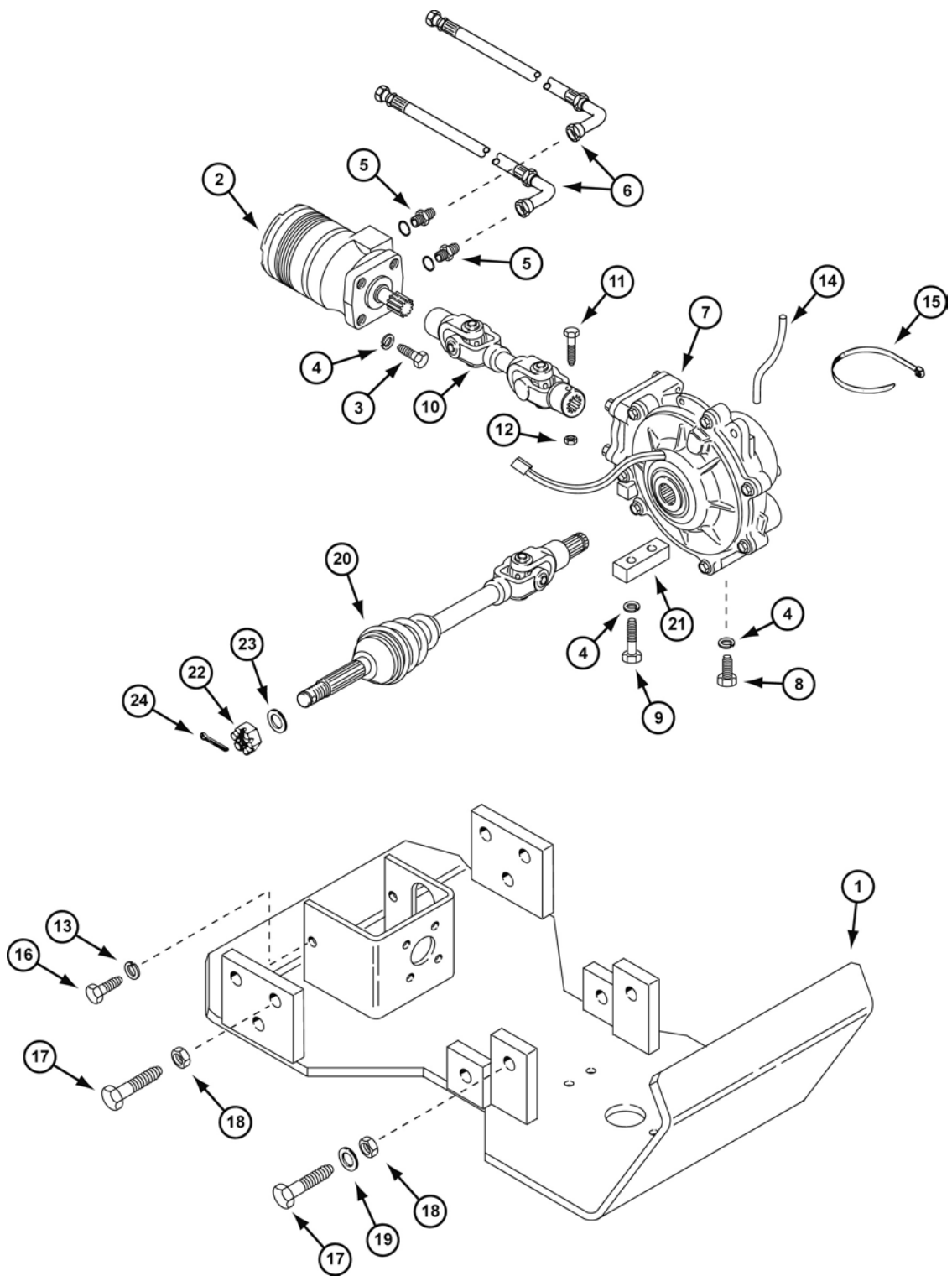
**INDEX****FRONT AXLE**

| REF. | PART NO. | DESCRIPTION                                                     | REQ'D |
|------|----------|-----------------------------------------------------------------|-------|
| 1    | C48027   | AXLE - front .....                                              | 1     |
| 2    | C48028   | BUSHING - spindle .....                                         | 4     |
| 3    | C48041   | KING PIN AND BRNG - L.H. (shown) (includes items 27 an 28)..... | 1     |
| 3    | C48034   | KING PIN AND BRNG - R.H. (includes items 27 an 28) .....        | 1     |
| 4    | 192-25   | LOCKWASHER - 5/8" .....                                         | 3     |
| 5    | C30163   | ARM - upper, spindle .....                                      | 1     |
| 6    | 113-417  | BOLT - 1/2" x 1-1/4" NC hex .....                               | 1     |
| 7    | 192-23   | LOCKWASHER - 1/2" .....                                         | 1     |
| 8    | 195-536  | WASHER - 9/16" .....                                            | 1     |
| 9    | C17684   | WASHER - thrust .....                                           | 2     |
| 10   | C28248   | RING - retaining .....                                          | 1     |
| 11   | C47727   | SHAFT - axle pivot .....                                        | 1     |
| 12   | C29575   | WASHER - 1" x 2" .....                                          | 1     |
| 13   | 219-20   | FITTING - lubrication .....                                     | 2     |
| 14   | C13106   | COVER - lubrication fitting .....                               | 2     |
| 15   | C47703   | TIE ROD .....                                                   | 1     |
| 16   | 129-127  | NUT - 5/8" N.F. hex .....                                       | 6     |
| 17   | C46653   | BALL JOINT - R.H. (includes lube fitting) .....                 | 1     |
| 18   | C46654   | BALL JOINT - L. H. (includes lube fitting) .....                | 2     |
| 19   | 219-413  | FITTING - lubrication .....                                     | 3     |
| 20   | C47650   | BALL JOINT .....                                                | 1     |
| 21   | 129-291  | NUT - 1" - 14 slotted .....                                     | 1     |
| 22   | 132-306  | PIN - cotter 3/16" x 1-3/4" .....                               | 1     |
| 23   | 219-55   | FITTING - lubrication 90o .....                                 | 1     |
| 24   | 113-417  | BOLT - 1/2" - 13 x 1-1/4" .....                                 | 2     |
| 25   | 129-105  | NUT - 1/2" - 13 .....                                           | 2     |
| 26   | C47714   | SEAL - bearing .....                                            | 4     |
|      | C47759   | BEARING AND CUP ASSEMBLY .....                                  | 4     |
| 27   | NSS      | BEARING - 1.375" tapered .....                                  | 1     |
| 28   | NSS      | CUP - bearing .....                                             | 1     |
| 29   | C48043   | WASHER - Thrust.....                                            | 2     |

**INDEX****FRONT AND REAR WHEELS**

|    |         |                                       |    |
|----|---------|---------------------------------------|----|
| 1  | C47612  | WHEEL - rim, rear 10 x 15 black ..... | 2  |
| 2  | C27763  | BOLT - rear wheel lug .....           | 12 |
| 3  | C28317  | CAP - dust .....                      | 2  |
| 4  | 132-310 | PIN - cotter 1/8" x 1" .....          | 2  |
| 5  | 25-1310 | NUT - castle 5/8" - 16 NC hex .....   | 2  |
| 6  | 195-108 | WASHER - retaining .....              | 2  |
| 7  | C47961  | NUT - wheel.....                      | 5  |
| 8  | C48032  | HUB ASSEMBLY - front wheel .....      | 1  |
| 9  | C47960  | STUD - wheel .....                    | 5  |
|    | NSS     | HUB - wheel .....                     | 1  |
| 10 | C47639  | WHEEL - rim, front .....              | 2  |

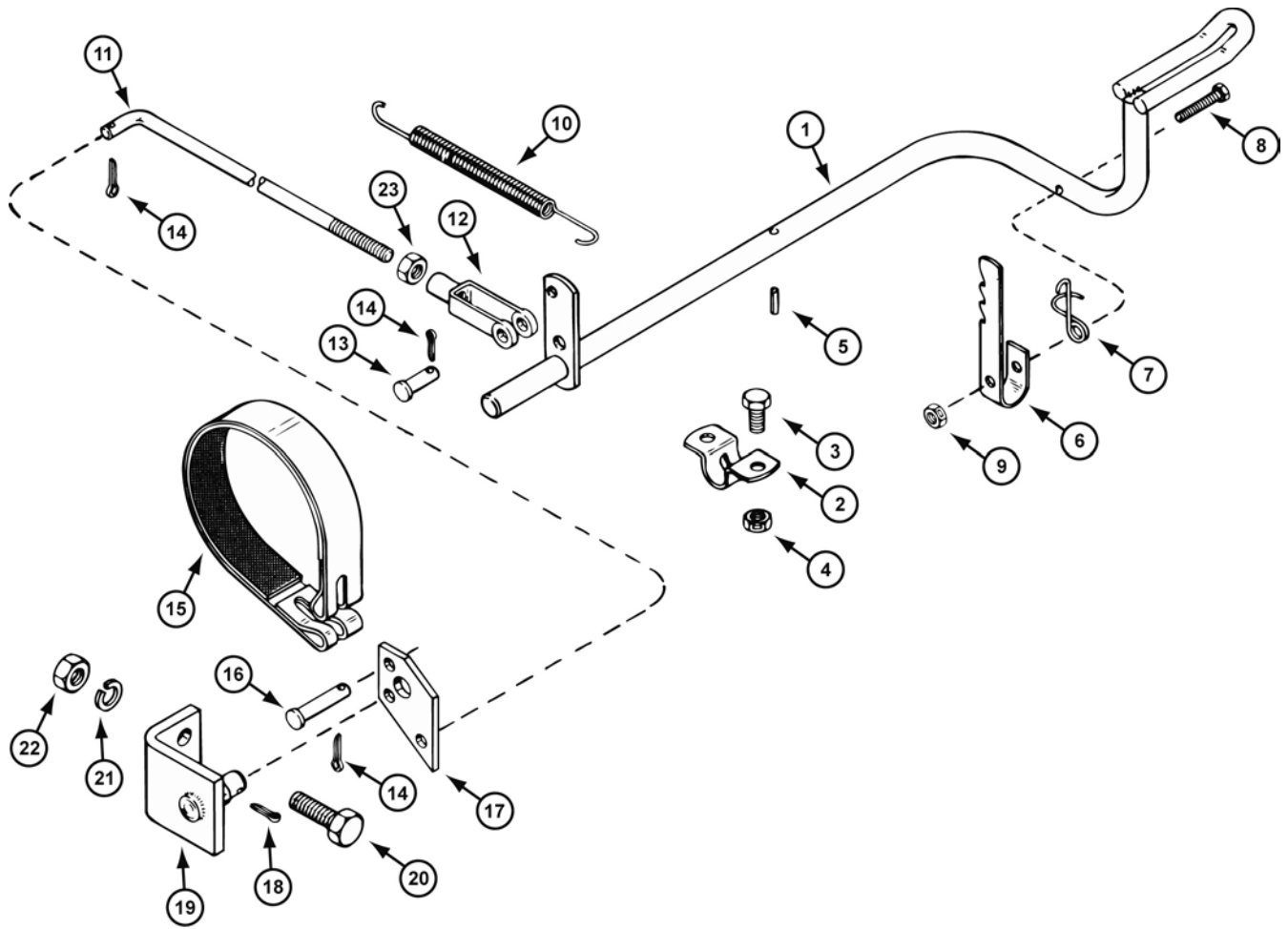
4WD COMPONENTS



## FWD COMPONENTS

| REF. | PART NO. | DESCRIPTION                                                        | REQ'D |
|------|----------|--------------------------------------------------------------------|-------|
| 1    | C48023   | PLATE - skid (7020) .....                                          | 1     |
| 1    | C48024   | PLATE - skid (7020BH) (shown) .....                                | 1     |
| 2    | C47661   | MOTOR - hydraulic .....                                            | 1     |
|      | C48257   | SEAL - Shaft .....                                                 | 1     |
| 3    | 113-207  | BOLT - 3/8" - 16 x 1" .....                                        | 4     |
| 4    | 192-21   | LOCKWASHER - 3/8" .....                                            | 8     |
| 5    | 218-5062 | FITTING - 5/8" tube x 7/8" - 14 (includes 218-5007 "O" ring) ..... | 2     |
| 6    | C31966   | HOSE - hydraulic 20" .....                                         | 2     |
| 7    | C47572   | DIFFERENTIAL - bi-directional .....                                | 1     |
|      | C47959   | GASKET - differential .....                                        | 1     |
| 8    | 113-207  | BOLT - 3/8" - 16 x 1" (7020) .....                                 | 2     |
| 8    | 113-209  | BOLT - 3/8" - 16 x 1-1/2" (7020BH) .....                           | 2     |
| 9    | 113-219  | BOLT - 3/8" - 16 x 2" (7020) .....                                 | 2     |
| 9    | 113-213  | BOLT - 3/8" - 16 x 2-1/4" (7020BH) .....                           | 2     |
| 10   | C48026   | SHAFT - differential drive .....                                   | 1     |
| 11   | 113-121  | BOLT - 5/16" - 18 x 2" .....                                       | 1     |
| 12   | 131-176  | NUT - 5/16" - 18 lock .....                                        | 1     |
| 13   | 192-23   | LOCKWASHER - 1/2" (7020) .....                                     | 2     |
| 14   | C24653   | HOSE - vent .....                                                  | 1     |
| 15   | C22947   | TIE - cable .....                                                  | 1     |
| 16   | 113-424  | BOLT - 1/2" - 13 x 1" (7020) .....                                 | 2     |
| 17   | 113-730  | BOLT - 3/4" - 10 x 2-3/4" .....                                    | UAR   |
| 18   | 131-C3   | NUT - 3/4" - 10 .....                                              | UAR   |
| 19   | C14201   | WASHER - spacer (.032") .....                                      | UAR   |
| 19   | C23301   | WASHER - spacer (.105") .....                                      | UAR   |
| 19   | 195-545  | WASHER - spacer (.135") .....                                      | UAR   |
| 20   | C48031   | SHAFT - wheel drive (also includes ref. 22, 23, 24) .....          | 2     |
|      | C47956   | BOOT - drive shaft .....                                           | 1     |
|      | C47957   | CLAMP - boot, 1" .....                                             | 1     |
|      | C47958   | CLAMP - boot, 3.1" .....                                           | 1     |
| 21   | C48025   | SPACER - differential .....                                        | 1     |
| 22   | 25-2310  | NUT - 5/8" - 16 slotted .....                                      | 2     |
| 23   | 195-108  | WASHER - .69" x 1.75" x .135" .....                                | 2     |
| 24   | 132-310  | PIN - cotter 1/8" x 1" .....                                       | 2     |

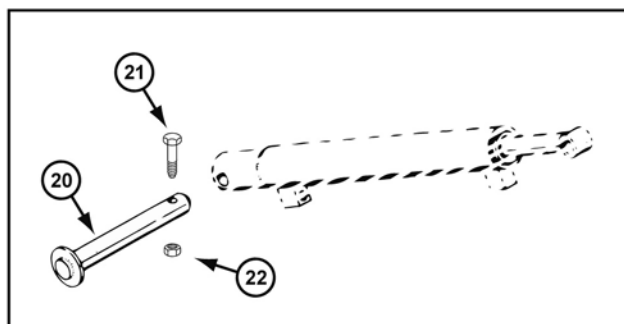
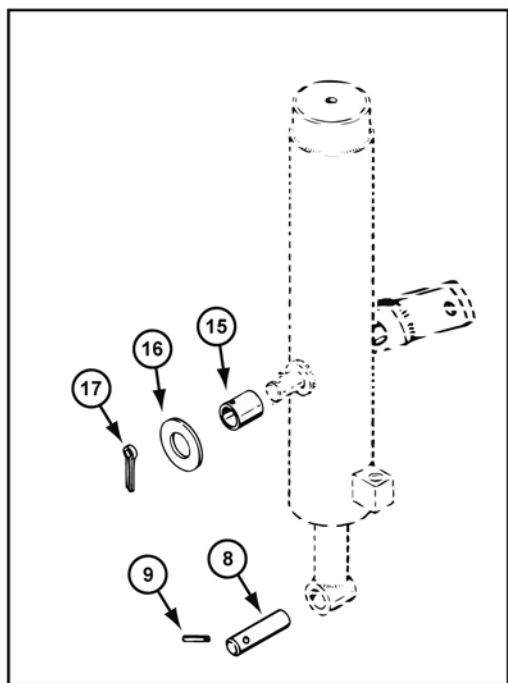
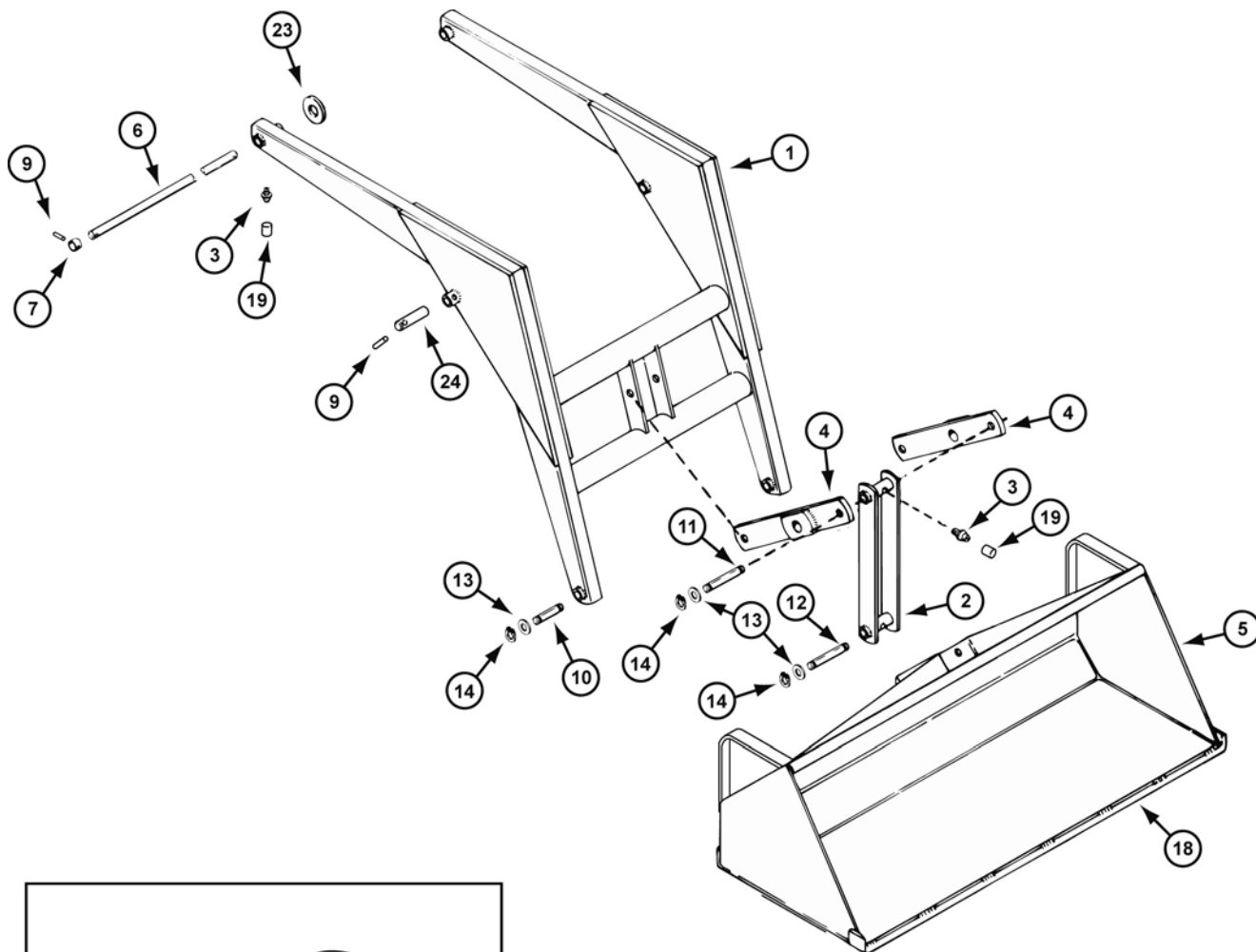
# BRAKE ASSEMBLY



**INDEX****BRAKE ASSEMBLY**

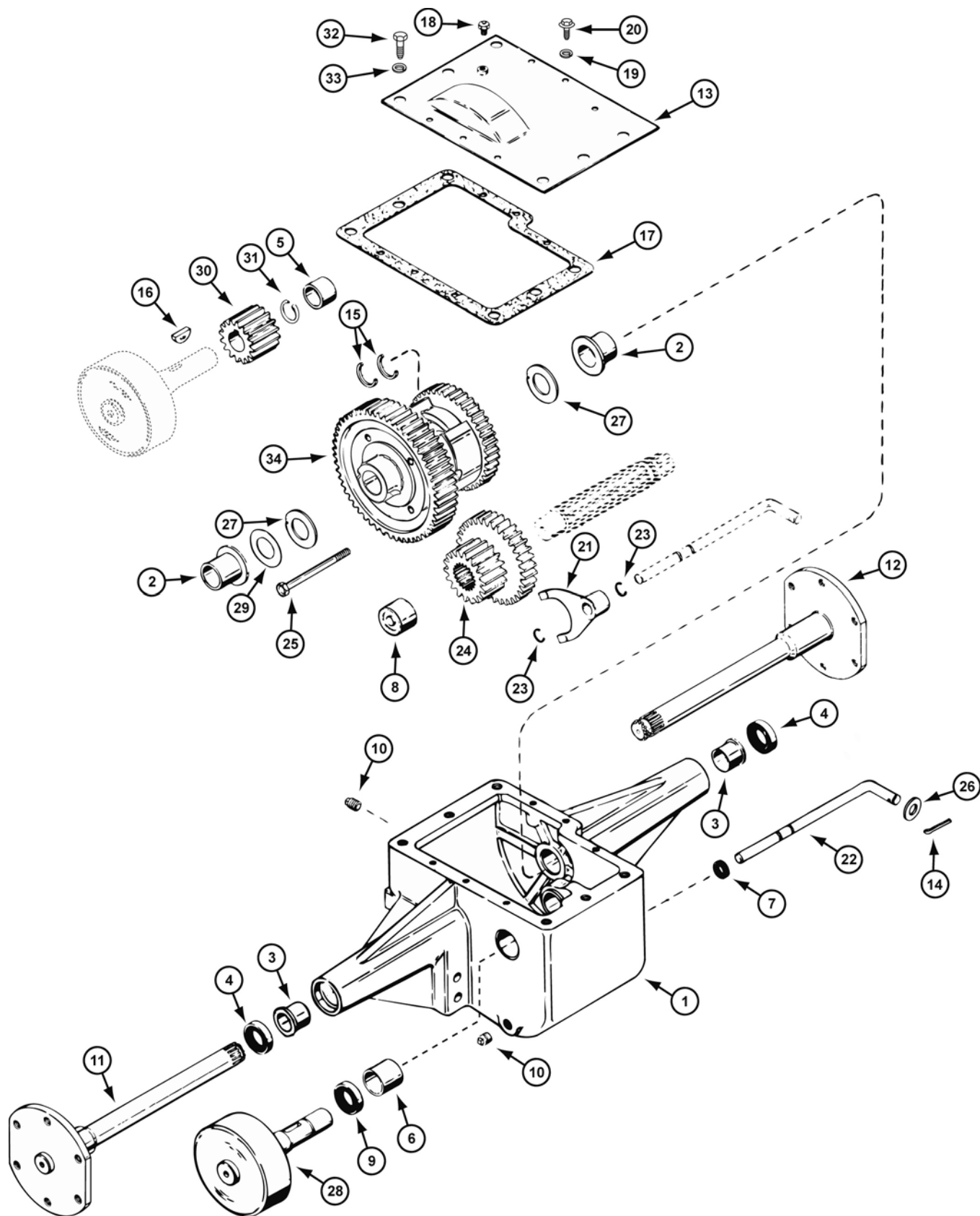
| REF. | PART NO. | DESCRIPTION                                           | REQ'D |
|------|----------|-------------------------------------------------------|-------|
| 1    | C26683   | PEDAL - brake (shown) (use before PIN 17193801) ..... | 1     |
| 1    | C47895   | PEDAL - brake (use PIN 17193801 and after) .....      | 1     |
| 2    | C18029   | BRACKET - saddle .....                                | 2     |
| 3    | 113-207  | BOLT - 3/8" x 1" NC hex .....                         | 4     |
| 4    | 131-938  | NUT - lock 3/8" NC hex .....                          | 4     |
| 5    | 138-92   | PIN - roll 3/16" x 3/4" .....                         | 1     |
| 6    | C18105   | LOCK - brake .....                                    | 1     |
| 7    | C17541   | SPRING - brake lock .....                             | 1     |
| 8    | 113-5    | BOLT - 1/4" x 1-1/2" NC hex .....                     | 1     |
| 9    | 131-1102 | NUT - lock 1/4" NC hex .....                          | 1     |
| 10   | C18278   | SPRING - brake return .....                           | 1     |
| 11   | C31993   | ROD - brake .....                                     | 1     |
| 12   | C28978   | CLEVIS .....                                          | 1     |
| 13   | 141-54   | PIN - clevis .....                                    | 1     |
| 14   | 132-310  | PIN - cotter 1/8" x 1" .....                          | 4     |
| 15   | C47142   | BAND - brake .....                                    | 1     |
| 16   | C13526   | PIN - clevis .....                                    | 2     |
| 17   | C18305   | ARM - actuator .....                                  | 1     |
| 18   | 132-333  | PIN - cotter 1/8" x 5/8" .....                        | 1     |
| 19   | C18306   | BRACKET - pivot .....                                 | 1     |
| 20   | 113-426  | BOLT - 1/2" x 2-3/4" NC hex .....                     | UAR   |
| 21   | 192-23   | LOCKWASHER - 1/2" .....                               | 2     |
| 22   | 129-105  | NUT - 1/2" NC hex .....                               | 2     |
| 23   | 129-163  | NUT - 3/8" - 24 .....                                 | 1     |

# BUCKET AND ARM ASSEMBLY



**INDEX****BUCKET AND ARM ASSEMBLY**

| REF. | PART NO. | DESCRIPTION                                     | REQ'D |
|------|----------|-------------------------------------------------|-------|
| 1    | C47602   | ARM ASSEMBLY - bucket lift (7020) (shown) ..... | 1     |
| 1    | C47627   | ARM ASSEMBLY - bucket lift (7020BH) .....       | 1     |
| 2    | C17322   | ARM - bucket .....                              | 1     |
| 3    | 219-20   | FITTING - lube .....                            | 4     |
| 4    | C18249   | LINK - bucket cylinder .....                    | 2     |
| 5    | C47076   | BUCKET - loader 48" (7020BH).....               | 1     |
| 5    | C33181   | BUCKET - loader 48" (7020) (shown) .....        | 1     |
| 6    | C17337   | ROD - arm assembly mounting .....               | 1     |
| 7    | C17987   | COLLAR .....                                    | 2     |
| 8    | C47200   | PIN - cylinder mounting 3/4" x 3-1/2" .....     | 3     |
| 9    | C44068   | PIN - spiral 1/4" x 1" .....                    | 5     |
| 10   | C17334   | PIN - bucket mounting, 3-5/16" (7020) .....     | 2     |
| 10   | C47088   | PIN - bucket mounting, 4" (7020BH) .....        | 2     |
| 11   | C17335   | PIN - 5" .....                                  | 2     |
| 12   | C17336   | PIN - 4-3/4" .....                              | 1     |
| 13   | 195-545  | WASHER - 13/32" .....                           | 1     |
| 14   | C28232   | RING - retaining .....                          | 1     |
| 15   | C18145   | BUSHING - oilite .....                          | 2     |
| 16   | 195-533  | WASHER - 1-1/16" .....                          | 2     |
| 17   | 132-311  | PIN - cotter 5/32" x 1-1/4" .....               | 2     |
| 18   | C47077   | EDGE - cutting 48" .....                        | 1     |
| 19   | C13106   | COVER - lubrication fitting .....               | 4     |
| 20   | C17714   | PIN - cylinder mounting .....                   | 2     |
| 21   | 113-122  | BOLT - 5/16" - 18 x 1-1/2" .....                | 2     |
| 22   | 131-176  | NUT - lock 5/16" hex .....                      | 2     |
| 23   | C12975   | WASHER - .76" x 1.12" .....                     | 1     |
| 24   | C47199   | PIN - lift arm 3/4" x 3" .....                  | 2     |



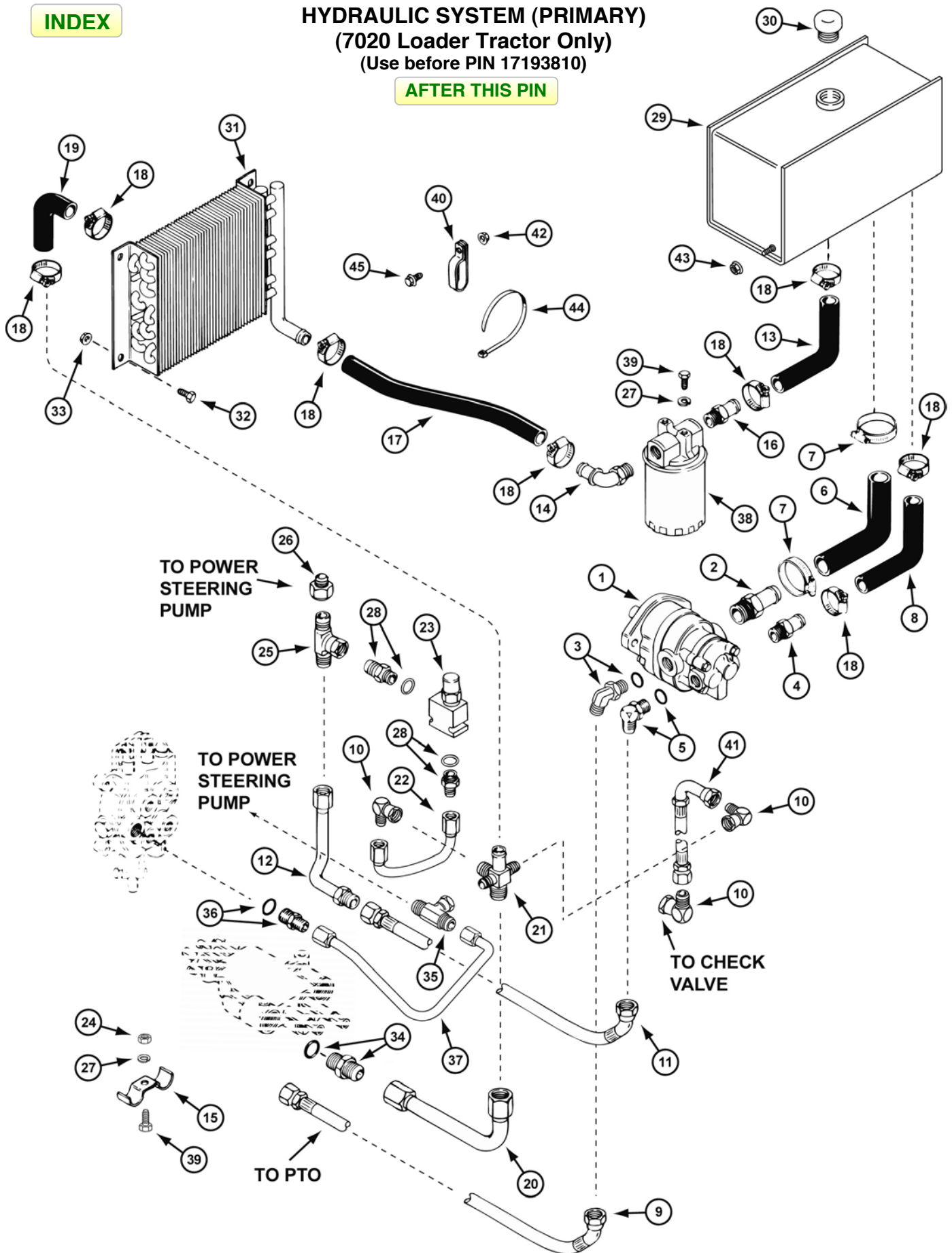
**INDEX**
**TRANSMISSION AND FINAL DRIVE**

| REF. | PART NO. | DESCRIPTION                                      | REQ'D |
|------|----------|--------------------------------------------------|-------|
|      | C26322   | CASE ASSEMBLY .....                              | 1     |
| 1    | NSS      | CASE - transmission (order assembly above) ..... | 1     |
| 2    | C12713   | BEARING - flanged .....                          | 2     |
| 3    | C26245   | BEARING - flanged .....                          | 2     |
| 4    | C26246   | SEAL - axle .....                                | 2     |
| 5    | C13241   | BEARING - sleeve .....                           | 1     |
| 6    | C13385   | BEARING - sleeve .....                           | 1     |
| 7    | C13266   | SEAL - shift rod .....                           | 1     |
| 8    | C28281   | BEARING - roller .....                           | 1     |
| 9    | C24803   | SEAL - shaft .....                               | 1     |
| 10   | 221-3    | PLUG - filler and drain 3/8" square head .....   | 2     |
| 10   | 221-1842 | PLUG - pipe 3/8" hex socket .....                | 1     |
| 11   | C26249   | SHAFT - axle, short R.H. ....                    | 1     |
| 12   | C26250   | SHAFT - axle, long L.H. ....                     | 1     |
| 13   | C36935   | COVER - transmission .....                       | 1     |
| 14   | 132-310  | PIN - cotter 1/8" x 1" .....                     | 1     |
| 15   | C26342   | RING - retainer, axle .....                      | 2     |
| 16   | 126-128  | KEY - woodruff, brake idler .....                | 1     |
| 17   | C13196   | GASKET - transmission cover .....                | 1     |
| 18   | C28241   | BREATHER - transmission .....                    | 1     |
| 19   | 192-19   | LOCKWASHER - 1/4" .....                          | 6     |
| 20   | 187-C2   | SCREW - 1/4" - 20 x 1" tap .....                 | 6     |
| 21   | C47578   | FORK - shift .....                               | 1     |
| 22   | C37222   | ROD - gear shift .....                           | 1     |
| 23   | C14168   | RING - retaining .....                           | 2     |
| 24   | C47670   | GEAR - cluster input .....                       | 1     |
| 25   | C30031   | KIT - bolt (set of four) .....                   | 4     |
| 26   | 195-541  | WASHER .....                                     | 1     |
| 27   | C12718   | WASHER - differential .....                      | 2     |
| 28   | C33305   | BRAKE DRUM .....                                 | 1     |
| 29   | C14223   | WASHER - spacer .....                            | UAR   |
| 30   | C46927   | GEAR - brake idler .....                         | 1     |
| 31   | C14222   | RING - retainer, brake idler .....               | 1     |
| 32   | 113-417  | BOLT - 1/2" x 1-1/4" NC transaxle mounting ..... | 6     |
| 32   | 166-86   | BOLT - 1/2" - 13 x 1-1/4", 12 pt. flange .....   | 1     |
| 33   | 192-23   | LOCKWASHER - 1/2" .....                          | 6     |
| 34   | C46929   | DIFFERENTIAL - (also includes item 25) .....     | 1     |

# INDEX

## HYDRAULIC SYSTEM (PRIMARY) (7020 Loader Tractor Only) (Use before PIN 17193810)

AFTER THIS PIN



**HYDRAULIC SYSTEM (PRIMARY)**  
**(7020 Loader Tractor Only)**  
**(Use before PIN 17193810)**

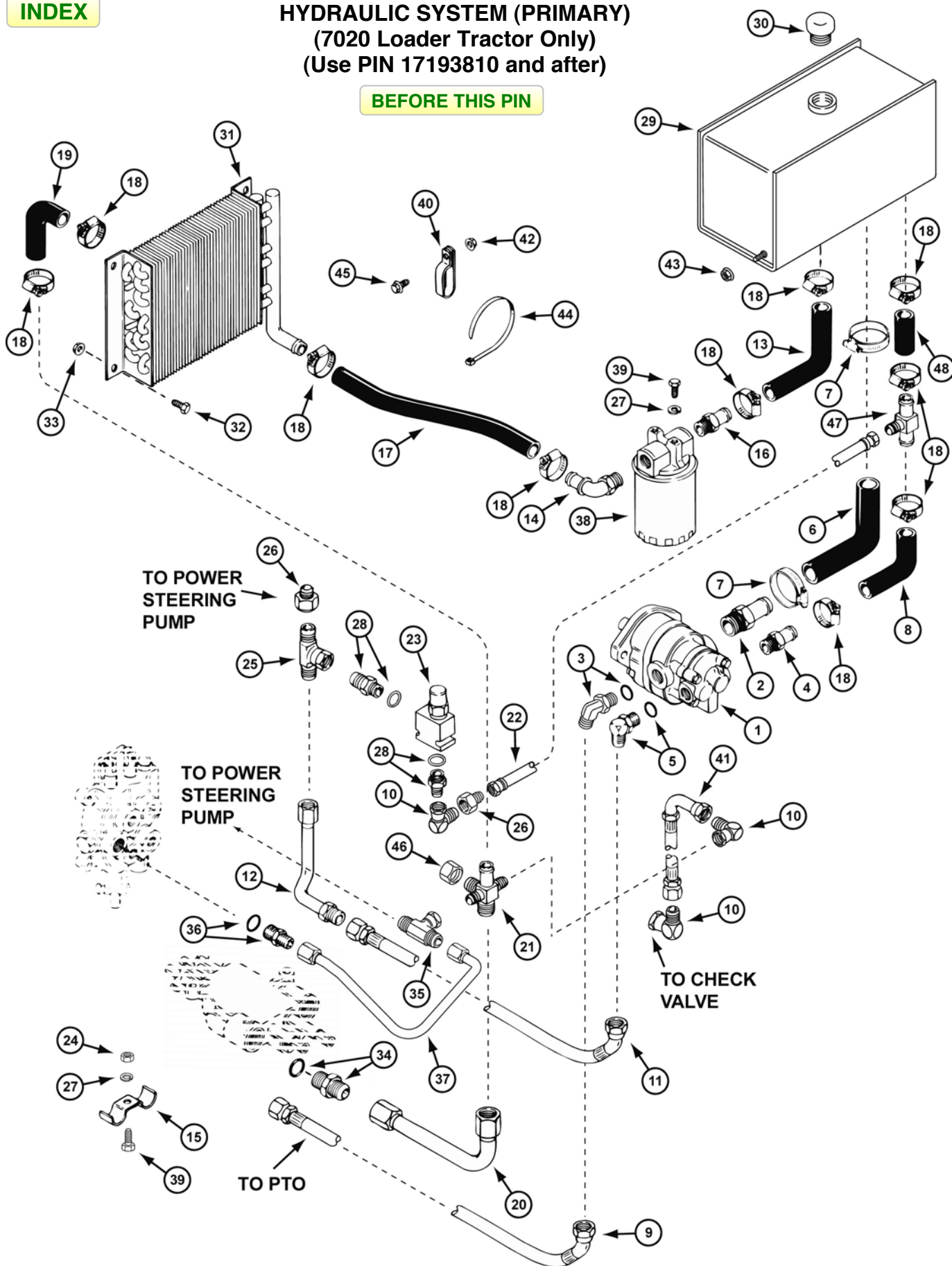
AFTER THIS PIN

| REF. | PART NO. | DESCRIPTION                                                                        | REQ'D |
|------|----------|------------------------------------------------------------------------------------|-------|
| 1    | C32170   | PUMP - hydraulic (repairs page 43) .....                                           | 1     |
| 2    | 217-179  | FITTING - 1" hose x 1-5/16" - 12 (includes 218-5010 "O" ring) .....                | 1     |
| 3    | 218-5137 | FITTING - 5/8" O.D. x 7/8" - 14, 45° adjustable (includes 218-5007 "O" ring) ..... | 1     |
| 4    | 217-398  | FITTING - 3/4" hose x 7/8" - 14 (includes 218-5007 "O" ring) .....                 | 1     |
| 5    | 218-5117 | FITTING - 5/8" O.D. x 3/4" - 16, 90° adjustable (includes 218-5006 "O" ring) ..... | 1     |
| 6    | C32107   | HOSE - 1" I.D. 90° pump inlet .....                                                | 1     |
| 7    | 214-255  | CLAMP - hose .....                                                                 | 2     |
| 8    | C37230   | HOSE - 3/4" I.D. pump inlet .....                                                  | 1     |
| 9    | C34186   | HOSE - pump to PTO (also use C47785 hose before PIN 17193533) .....                | 1     |
| 10   | 218-5232 | FITTING - 90° elbow 5/8" x 5/8" .....                                              | 3     |
| 11   | C33394   | HOSE - pump to relief valve .....                                                  | 1     |
| 12   | C32111   | TUBE - pump to relief valve tee .....                                              | 1     |
| 13   | C47069   | HOSE - oil filter to oil tank .....                                                | 1     |
| 14   | 217-135  | CONNECTOR - 90° 3/4" hose x 3/4" NPTF thread .....                                 | 1     |
| 15   | C15389   | CLAMP - tube .....                                                                 | 1     |
| 16   | 217-155  | CONNECTOR - 3/4" hose x 3/4" NPTF thread .....                                     | 1     |
| 17   | C33046   | HOSE - 3/4" I.D. x 19" (cut to required length) .....                              | 1     |
| 18   | 214-254  | CLAMP - hose 1-1/4" .....                                                          | 8     |
| 19   | C32148   | HOSE - 90° heat exchanger to manifold .....                                        | 1     |
| 20   | C32114   | TUBE - travel valve to manifold .....                                              | 1     |
| 21   | C44892   | MANIFOLD - return .....                                                            | 1     |
| 22   | C44885   | TUBE - manifold to relief valve .....                                              | 1     |
| 23   | C46649   | VALVE - relief 1800 PSI .....                                                      | 1     |
|      | C46650   | CARTRIDGE - relief 1800 PSI .....                                                  | 1     |
| 24   | 129-101  | NUT - 1/4" - 20 .....                                                              | 1     |
| 25   | 218-842  | FITTING - tee swivel 5/8" tube x 7/8" - 14 .....                                   | 1     |
| 26   | C33112   | FITTING - tube reducer 5/8" to 3/8" tube .....                                     | 1     |
| 27   | 192-19   | LOCKWASHER - 1/4" .....                                                            | 3     |
| 28   | C25245   | FITTING - 5/8" tube x 3/4" - 14 (includes 218-5007 "O" ring) .....                 | 2     |
| 29   | C47058   | RESERVOIR - oil .....                                                              | 1     |
| 30   | C46387   | CAP - oil tank .....                                                               | 1     |
| 31   | C32047   | EXCHANGER - heat .....                                                             | 1     |
| 32   | 113-1    | BOLT - 1/4" - 20 x 1/2" .....                                                      | 4     |
| 33   | 131-934  | NUT - 1/4" - 20 flange lock .....                                                  | 4     |
| 34   | 218-5065 | FITTING - 3/4" tube x 7/8" - 14 (includes 218-5006 "O" ring) .....                 | 1     |
| 35   | 218-836  | FITTING - 3/8" tube x 3/8" tee .....                                               | 1     |
| 36   | 218-5058 | FITTING - 3/8" tube x 3/4" - 16 (includes 218-5006 "O" ring) .....                 | 1     |
| 37   | C46450   | TUBE - bucket valve "out" to return manifold .....                                 | 1     |
| 38   | C33038   | FILTER ASSEMBLY .....                                                              | 1     |
|      | C33039   | FILTER - oil .....                                                                 | 1     |
| 39   | 113-3    | BOLT - 1/4" - 20 x 3/4" .....                                                      | 3     |
| 40   | C32213   | CLAMP - tube .....                                                                 | 1     |
| 41   | C47210   | HOSE - hydraulic .....                                                             | 1     |
| 42   | 131-938  | NUT - 3/8" - 16 x flange lock .....                                                | UAR   |
| 43   | 131-934  | NUT - 1/4" - 20 flange lock .....                                                  | UAR   |
| 44   | C22947   | TIE - nylon .....                                                                  | 2     |
| 45   | 113-207  | BOLT - 3/8" - 16 x 1" .....                                                        | UAR   |

# INDEX

## HYDRAULIC SYSTEM (PRIMARY) (7020 Loader Tractor Only) (Use PIN 17193810 and after)

BEFORE THIS PIN

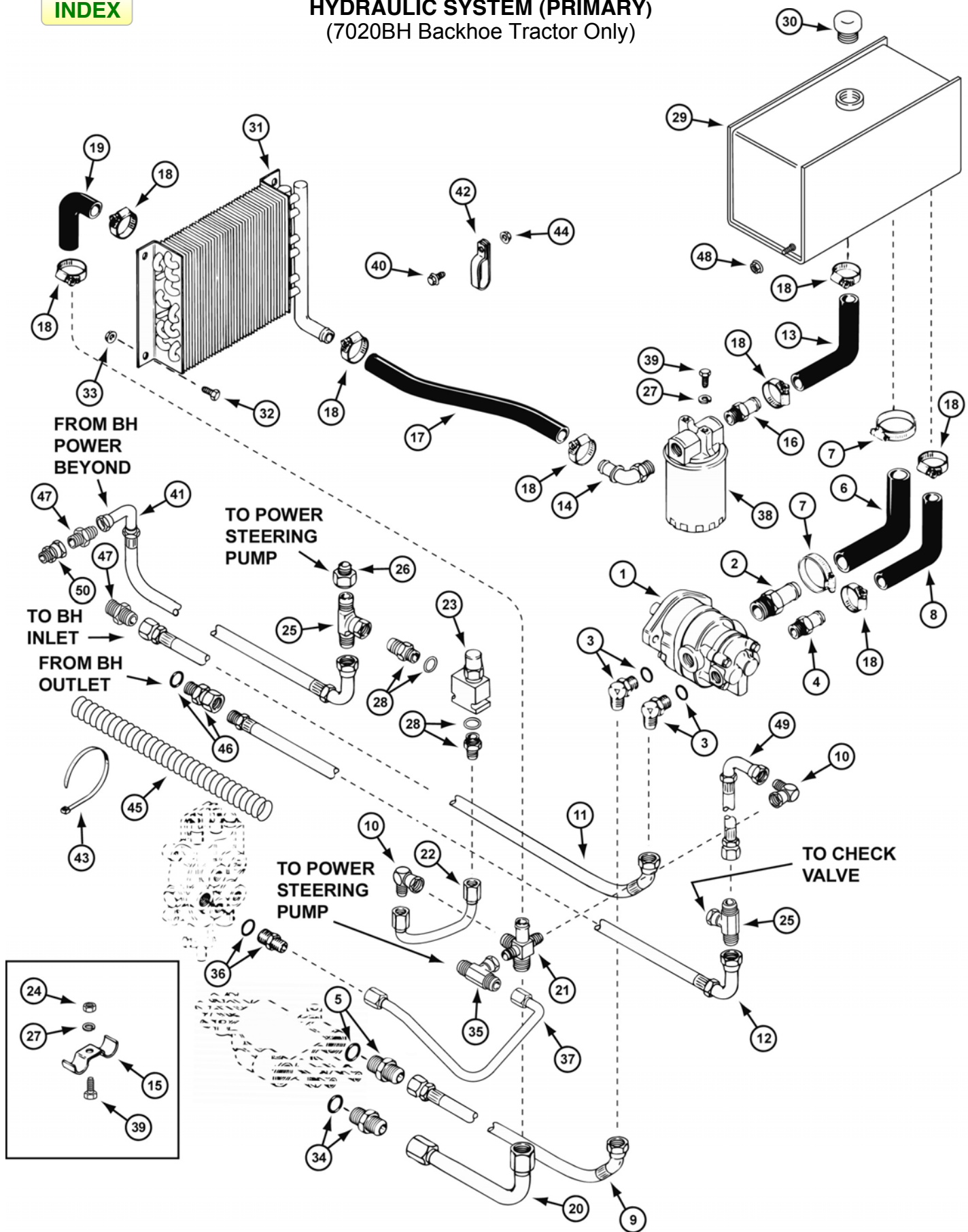


# HYDRAULIC SYSTEM (PRIMARY) (7020 Loader Tractor Only) (Use PIN 17193810 and after)

BEFORE THIS PIN

| REF. | PART NO. | DESCRIPTION                                                                        | REQ'D |
|------|----------|------------------------------------------------------------------------------------|-------|
| 1    | C32170   | PUMP - hydraulic (repairs page 43) .....                                           | 1     |
| 2    | 217-179  | FITTING - 1" hose x 1-5/16" - 12 (includes 218-5010 "O" ring) .....                | 1     |
| 3    | 218-5137 | FITTING - 5/8" O.D. x 7/8" - 14, 45° adjustable (includes 218-5007 "O" ring) ..... | 1     |
| 4    | 217-398  | FITTING - 3/4" hose x 7/8" - 14 (includes 218-5007 "O" ring) .....                 | 1     |
| 5    | 218-5117 | FITTING - 5/8" O.D. x 3/4" - 16, 90° adjustable (includes 218-5006 "O" ring) ..... | 1     |
| 6    | C32107   | HOSE - 1" I.D. 90° pump inlet .....                                                | 1     |
| 7    | 214-255  | CLAMP - hose .....                                                                 | 2     |
| 8    | C47964   | HOSE - 3/4" I.D. pump inlet .....                                                  | 1     |
| 9    | C34186   | HOSE - pump to PTO (also use C47785 hose before PIN 17193533) .....                | 1     |
| 10   | 218-5232 | FITTING - 90° elbow 5/8" x 5/8" .....                                              | 3     |
| 11   | C33394   | HOSE - pump to relief valve .....                                                  | 1     |
| 12   | C32111   | TUBE - pump to relief valve tee .....                                              | 1     |
| 13   | C47069   | HOSE - oil filter to oil tank .....                                                | 1     |
| 14   | 217-135  | CONNECTOR - 90° 3/4" hose x 3/4" NPTF thread .....                                 | 1     |
| 15   | C15389   | CLAMP - tube .....                                                                 | 1     |
| 16   | 217-155  | CONNECTOR - 3/4" hose x 3/4" NPTF thread .....                                     | 1     |
| 17   | C33046   | HOSE - 3/4" I.D. x 19" (cut to required length) .....                              | 1     |
| 18   | 214-254  | CLAMP - hose 1-1/4" .....                                                          | 8     |
| 19   | C32148   | HOSE - 90° heat exchanger to manifold .....                                        | 1     |
| 20   | C32114   | TUBE - travel valve to manifold .....                                              | 1     |
| 21   | C44892   | MANIFOLD - return .....                                                            | 1     |
| 22   | C47962   | HOSE - 3/8" x 28.5" .....                                                          | 1     |
| 23   | C46649   | VALVE - relief 1800 PSI .....                                                      | 1     |
|      | C46650   | CARTRIDGE - relief 1800 PSI .....                                                  | 1     |
| 24   | 129-101  | NUT - 1/4" - 20 .....                                                              | 1     |
| 25   | 218-842  | FITTING - tee swivel 5/8" tube x 7/8" - 14 .....                                   | 1     |
| 26   | C33112   | FITTING - tube reducer 5/8" to 3/8" tube .....                                     | 2     |
| 27   | 192-19   | LOCKWASHER - 1/4" .....                                                            | 3     |
| 28   | C25245   | FITTING - 5/8" tube x 3/4" - 14 (includes 218-5007 "O" ring) .....                 | 2     |
| 29   | C47058   | RESERVOIR - oil .....                                                              | 1     |
| 30   | C46387   | CAP - oil tank .....                                                               | 1     |
| 31   | C32047   | EXCHANGER - heat .....                                                             | 1     |
| 32   | 113-1    | BOLT - 1/4" - 20 x 1/2" .....                                                      | 4     |
| 33   | 131-934  | NUT - 1/4" - 20 flange lock .....                                                  | 4     |
| 34   | 218-5065 | FITTING - 3/4" tube x 7/8" - 14 (includes 218-5006 "O" ring) .....                 | 1     |
| 35   | 218-836  | FITTING - 3/8" tube x 3/8" tee .....                                               | 1     |
| 36   | 218-5058 | FITTING - 3/8" tube x 3/4" - 16 (includes 218-5006 "O" ring) .....                 | 1     |
| 37   | C46450   | TUBE - bucket valve "out" to return manifold .....                                 | 1     |
| 38   | C33038   | FILTER ASSEMBLY .....                                                              | 1     |
|      | C33039   | FILTER - oil .....                                                                 | 1     |
| 39   | 113-3    | BOLT - 1/4" - 20 x 3/4" .....                                                      | 3     |
| 40   | C32213   | CLAMP - tube .....                                                                 | 1     |
| 41   | C47210   | HOSE - hydraulic .....                                                             | 1     |
| 42   | 131-938  | NUT - 3/8" - 16 x flange lock .....                                                | UAR   |
| 43   | 131-934  | NUT - 1/4" - 20 flange lock .....                                                  | UAR   |
| 44   | C22947   | TIE - nylon .....                                                                  | UAR   |
| 45   | 113-207  | BOLT - 3/8" - 16 x 1" .....                                                        | UAR   |
| 46   | 218-756  | CAP - 5/8" x 7/8" - 14 .....                                                       | 1     |
| 47   | C33204   | FITTING - tee, 3/4" tube x 9/16" - 18 .....                                        | 1     |
| 48   | NSS      | HOSE -3/4" ID x 2-1/2" (cut from C47964) .....                                     | 1     |

# **HYDRAULIC SYSTEM (PRIMARY)** (7020BH Backhoe Tractor Only)



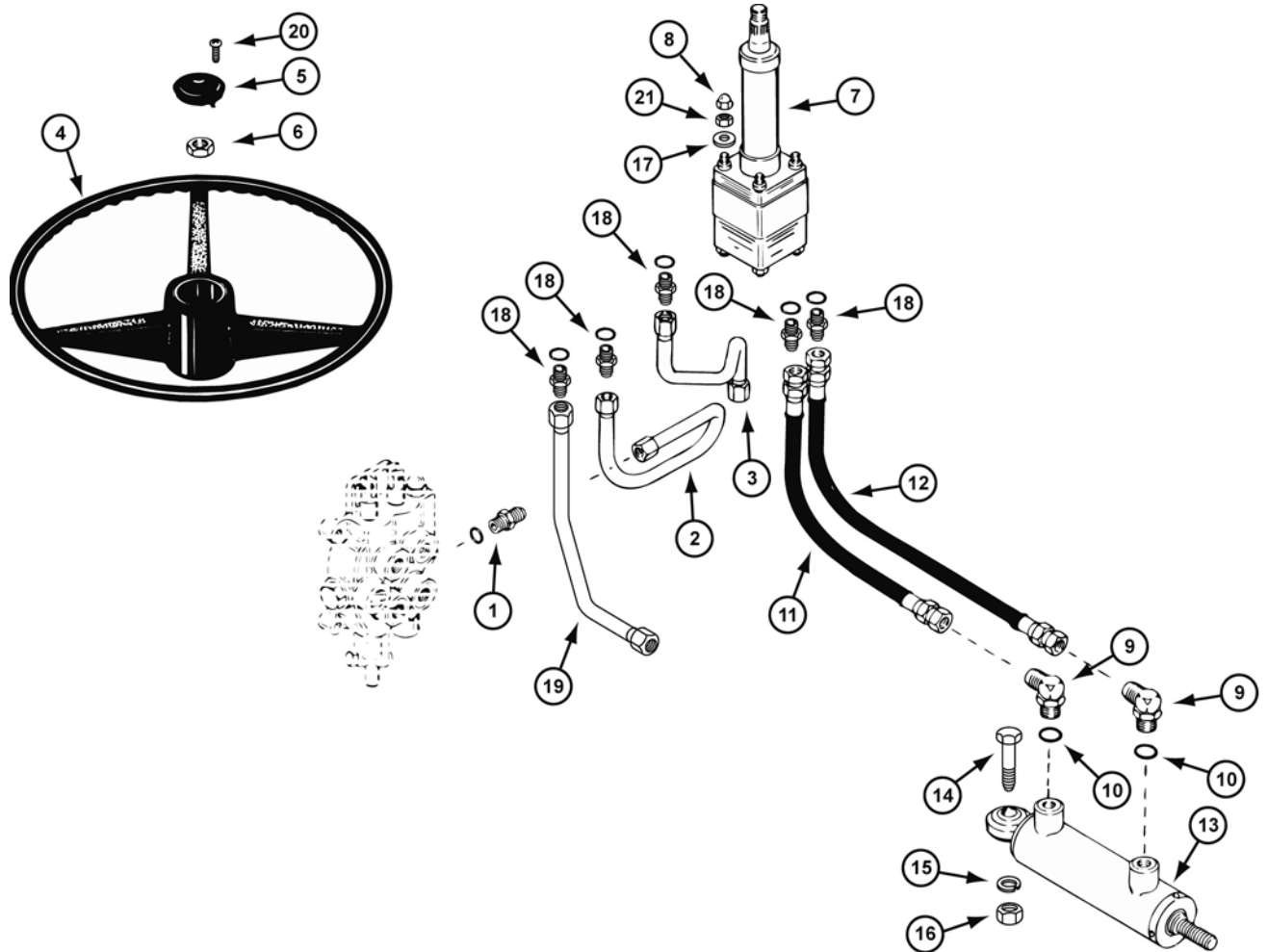
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## HYDRAULIC SYSTEM (PRIMARY) (7020BH Backhoe Tractor Only)

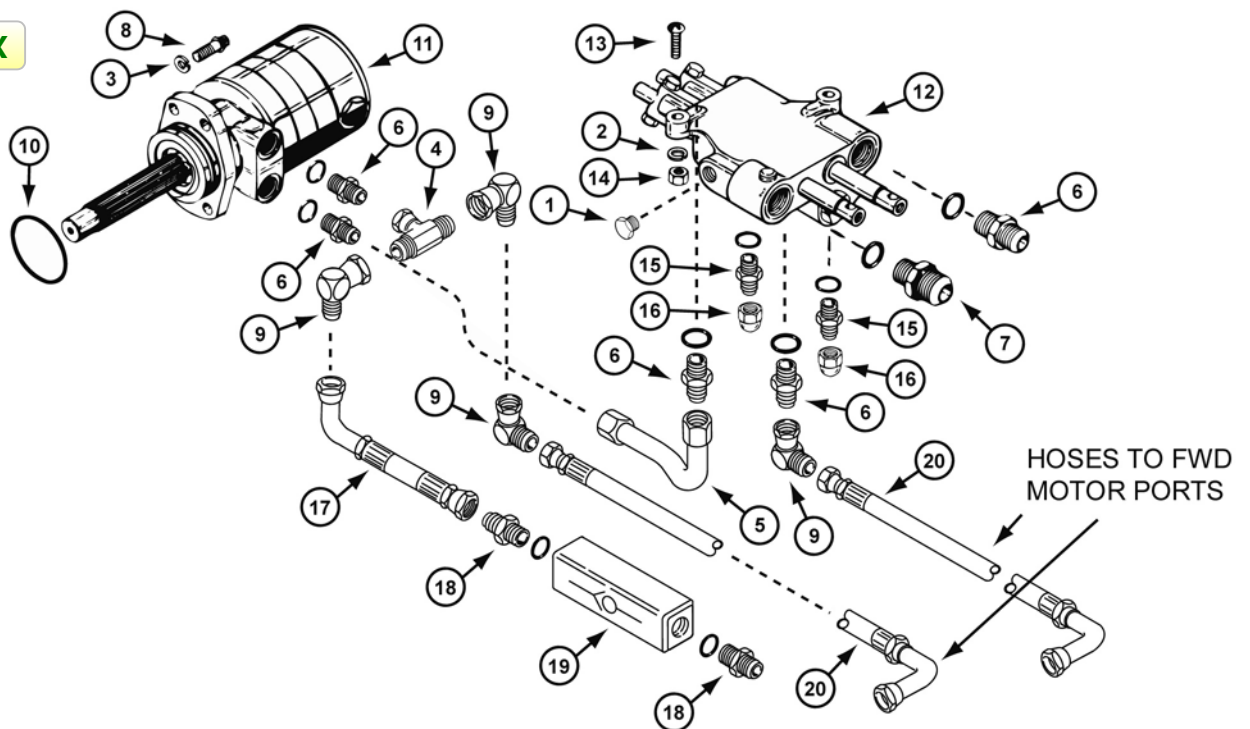
| REF. | PART NO. | DESCRIPTION                                                                  | REQ'D |
|------|----------|------------------------------------------------------------------------------|-------|
| 1    | C46971   | PUMP - hydraulic ( <a href="#">repairs page 43</a> )                         | 1     |
| 2    | 217-179  | FITTING - 1" hose x 1-5/16" - 12 (includes 218-5010 "O" ring)                | 1     |
| 3    | 218-5107 | FITTING - 5/8" O.D. x 7/8" - 14, 90° adjustable (includes 218-5007 "O" ring) | 2     |
| 4    | 217-393  | FITTING - 3/4" hose x 1-5/16"                                                | 1     |
| 5    | 218-5062 | FITTING - 5/8" tube x 7/8" - 14 (includes 218-5007 "O" ring)                 | 1     |
| 6    | C32107   | HOSE - 1" I.D. 90° pump inlet                                                | 1     |
| 7    | 214-255  | CLAMP - hose                                                                 | 2     |
| 8    | C37230   | HOSE - 3/4" I.D. pump inlet, 90°                                             | 1     |
| 9    | C34186   | HOSE - pump to travel valve                                                  | 1     |
| 10   | 218-5232 | FITTING - 90° elbow 5/8" x 5/8" tube                                         | 2     |
| 11   | C34187   | HOSE - pump to backhoe inlet                                                 | 1     |
| 12   | C44893   | HOSE - backhoe outlet                                                        | 1     |
| 13   | C47069   | HOSE - oil filter to oil tank                                                | 1     |
| 14   | 217-135  | CONNECTOR - 90° 3/4" hose x 3/4" NPTF thread                                 | 1     |
| 15   | C15389   | CLAMP - tube                                                                 | 1     |
| 16   | 217-155  | CONNECTOR - 3/4" hose x 3/4" NPTF thread                                     | 1     |
| 17   | C33046   | HOSE - 3/4" I.D. x 19" (cut to required length)                              | 1     |
| 18   | 214-254  | CLAMP - hose 1-1/4"                                                          | 8     |
| 19   | C32148   | HOSE - 90° heat exchanger to manifold                                        | 1     |
| 20   | C32114   | TUBE - travel valve to manifold                                              | 1     |
| 21   | C44892   | MANIFOLD - return                                                            | 1     |
| 22   | C44885   | TUBE - manifold to relief valve                                              | 1     |
| 23   | C46649   | VALVE - relief 1800 PSI                                                      | 1     |
|      | C46650   | CARTRIDGE - relief 1800 PSI                                                  | 1     |
| 24   | 129-101  | NUT - 1/4" - 20                                                              | 1     |
| 25   | 218-842  | FITTING - tee swivel 5/8" tube x 5/8" tube                                   | 2     |
| 26   | C33112   | FITTING - tube reducer 5/8" to 3/8" tube x 9/16 "                            | 1     |
| 27   | 192-19   | LOCKWASHER - 1/4"                                                            | 2     |
| 28   | C25245   | FITTING - 5/8" tube x 3/4" - 14 (includes 218-5007 "O" ring)                 | 2     |
| 29   | C47058   | RESERVOIR - oil                                                              | 1     |
| 30   | C46387   | CAP - oil tank                                                               | 1     |
| 31   | C32047   | EXCHANGER - heat                                                             | 1     |
| 32   | 113-1    | BOLT - 1/4" - 20 x 1/2"                                                      | 4     |
| 33   | 131-934  | NUT - 1/4" - 20 flange lock                                                  | 4     |
| 34   | 218-5065 | FITTING - 3/4" tube x 7/8" - 14 (includes 218-5007 "O" ring)                 | 1     |
| 35   | 218-836  | FITTING - 3/8" tube x 3/8" tee                                               | 1     |
| 36   | 218-5058 | FITTING - 3/8" tube x 3/4" - 16 (includes 218-5006 "O" ring)                 | 1     |
| 37   | C46450   | TUBE - bucket valve "out" to return manifold                                 | 1     |
| 38   | C33038   | FILTER ASSEMBLY                                                              | 1     |
|      | C33039   | FILTER - oil                                                                 | 1     |
| 39   | 113-3    | BOLT - 1/4" - 20 x 3/4"                                                      | 3     |
| 40   | 121-21   | BOLT - 1/4" - 20 x 1/2" flange lock                                          | 1     |
| 40   | 113-207  | BOLT - 3/8" - 16 x 1"                                                        | 1     |
| 41   | C46976   | HOSE - backhoe power beyond to relief valve                                  | 1     |
| 42   | C32213   | CLAMP - tube                                                                 | 1     |
| 43   | C22947   | TIE - nylon                                                                  | UAR   |
| 44   | 131-938  | NUT - 3/8" - 16 flange lock                                                  | 1     |
| 45   | C47099   | SLEEVE - protective 29"                                                      | 2     |
| 45   | C47100   | SLEEVE - protective 32"                                                      | 1     |
| 46   | 218-5254 | FITTING - 3/4" - 16 x 1/2" female swivel NPSM (Includes 218-5007 "O" ring)   | 1     |
| 47   | C25245   | FITTING - 5/8" tube x 3/4" - 16                                              | 2     |
| 48   | 131-934  | NUT - 1/4" - 20 flange lock                                                  | 1     |
| 49   | C47210   | HOSE - hydraulic                                                             | 1     |
| 50   | C47927   | FITTING - power beyond in backhoe                                            | 1     |

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## HYDRAULIC STEERING AND DRIVE SYSTEM



# INDEX



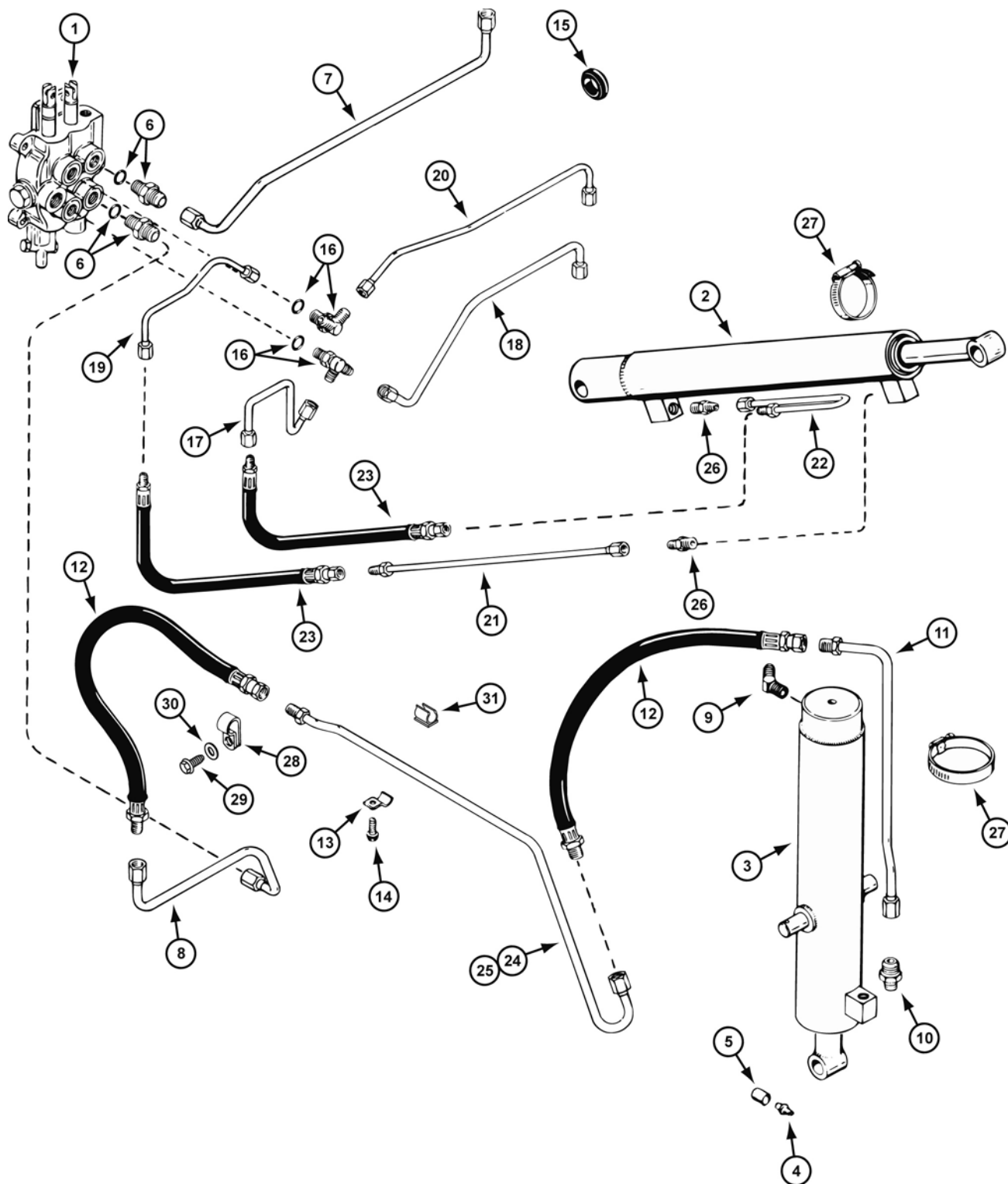
**INDEX****HYDRAULIC POWER STEERING SYSTEM**

| REF. | PART NO. | DESCRIPTION                                                         | REQ'D |
|------|----------|---------------------------------------------------------------------|-------|
| 1    | 218-5058 | FITTING - 3/8" tube x 3/4" - 16 straight (includes "O" ring) .....  | 1     |
| 2    | C46524   | TUBE - steering to loader valve (in) .....                          | 1     |
| 3    | C46525   | TUBE - steering (in) to relief valve tee .....                      | 1     |
| 4    | C47106   | WHEEL - steering .....                                              | 1     |
| 5    | C47107   | CAP - steering wheel .....                                          | 1     |
| 6    | 129-127  | NUT - 5/8" - 18 .....                                               | 1     |
| 7    | C46447   | PUMP - steering, five port (repairs page 51) .....                  | 1     |
| 8    | C27991   | NUT - 5/16" - 24 acorn, black .....                                 | 4     |
| 9    | 218-5105 | FITTING - 90° elbow, adjustable 3/8" tube x 9/18" - 18 .....        | 2     |
| 10   | 218-5005 | "O" ring .....                                                      | 1     |
| 11   | C32399   | HOSE - steering pump (L.T.) to cylinder, 25" .....                  | 1     |
| 12   | C32125   | HOSE - steering pump (R.T.) to cylinder, 31" .....                  | 1     |
| 13   | C32027   | CYLINDER - steering .....                                           | 1     |
|      | C26443   | KIT - gasket .....                                                  | 1     |
| 14   | 113-601  | BOLT - 5/8" - 11 x 3" .....                                         | 1     |
| 15   | 192-25   | LOCKWASHER - 5/8" .....                                             | 1     |
| 16   | 129-107  | NUT - 5/8" - 11 .....                                               | 1     |
| 17   | 195-C2   | WASHER .....                                                        | 4     |
| 18   | 218-5057 | FITTING - 3/8" tube x 9/16" - 18 (includes 218-5005 "O" ring) ..... | 5     |
| 19   | C46523   | TUBE - steering (out) to return tee .....                           | 1     |
| 20   | C42592   | SCREW - #7 - 19 x 3/4" .....                                        | UAR   |
| 21   | 129-122  | NUT - 5/16" - 24 .....                                              | 1     |

**INDEX****HYDRAULIC DRIVE SYSTEM**

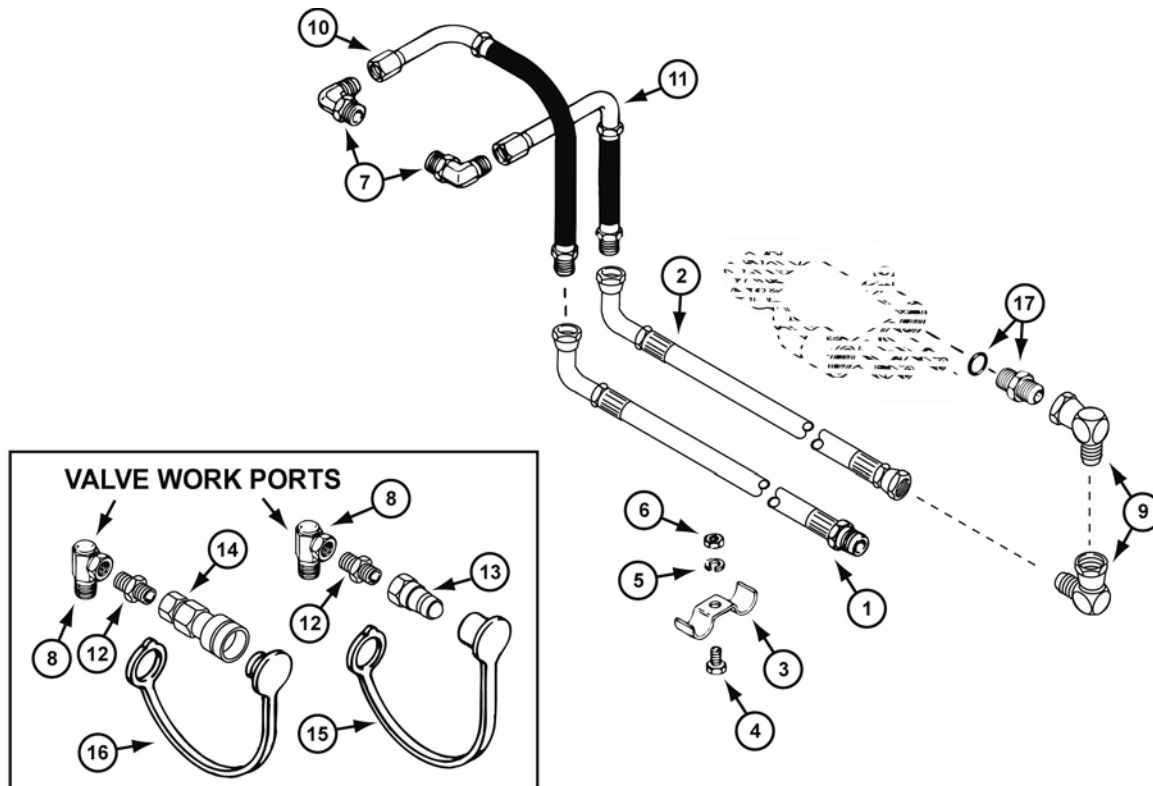
|    |          |                                                                    |     |
|----|----------|--------------------------------------------------------------------|-----|
| 1  | 218-5154 | PLUG - 1/2" - 20 .....                                             | UAR |
| 2  | 192-21   | LOCKWASHER - 3/8" .....                                            | 2   |
| 3  | 192-23   | LOCKWASHER - 1/2" .....                                            | 4   |
| 4  | 218-842  | FITTING - 5/8" tube x 5/8" tube x 5/8" swivel tee .....            | 1   |
| 5  | C45914   | TUBE - travel valve to motor (lower port) .....                    | 1   |
| 6  | 218-5062 | FITTING - 5/8" tube x 7/8" - 14 (includes 218-5007 "O" ring) ..... | 4   |
| 7  | 218-5065 | FITTING - 3/4" x 7/8" - 14 (includes 218-5007 "O" ring) .....      | 1   |
| 8  | 166-86   | BOLT - 1/2" - 13 x 1-1/4" .....                                    | 4   |
| 9  | 218-5232 | FITTING - 90° elbow 5/8" tube x 5/8" tube .....                    | 1   |
| 10 | C28949   | SEAL - motor to case .....                                         | 1   |
| 11 | C46957   | MOTOR - hydraulic (repairs page 49) .....                          | 1   |
| 12 | C45909   | VALVE - travel control (7020) (repairs page 45) .....              | 1   |
| 12 | C46972   | VALVE - travel control (7020BH) (repairs page 45) .....            | 1   |
| 13 | C27764   | SCREW - 5/16" - 18 x 1-1/4" .....                                  | 2   |
| 14 | 129-102  | NUT - 5/16" - 18 .....                                             | 2   |
| 15 | 218-5056 | FITTING - 5/16" tube x 1/2" - 20 (7020) .....                      | 2   |
| 16 | 218-513  | CAP - fitting .....                                                | UAR |
| 17 | C47210   | HOSE - hydraulic 1/2" x 7-1/2" .....                               | 1   |
| 18 | C25245   | FITTING - 5/8" tube x 3/4" - 16 (includes 218-5007 "O" ring) ..... | 2   |
| 19 | C47789   | VALVE - check .....                                                | 1   |
| 20 | C31966   | HOSE - 1/2" x 20" (to FWD motor) .....                             | 2   |

# HYDRAULIC SYSTEM (BUCKET CONTROL)



**INDEX****HYDRAULIC SYSTEM (BUCKET CONTROL)**

| REF. | PART NO. | DESCRIPTION                                              | REQ'D |
|------|----------|----------------------------------------------------------|-------|
| 1    | C18179   | VALVE - bucket control (repairs page 47) .....           | 1     |
| 2    | C26433   | CYLINDER - lift arm (repairs page 53) .....              | 2     |
| 3    | C26432   | CYLINDER - bucket (repairs page 53) .....                | 1     |
| 4    | 219-17   | FITTING - lubrication, straight .....                    | 5     |
| 5    | C13106   | COVER - lubrication fitting .....                        | 5     |
| 6    | 218-5057 | FITTING - hydraulic (includes 218-5005 "O" ring) .....   | 2     |
| 7    | C25162   | TUBE - bucket valve to L.H. tower .....                  | 1     |
| 8    | C25161   | TUBE - bucket valve to R.H. tower .....                  | 1     |
| 9    | 218-533  | FITTING - 45° .....                                      | 1     |
| 10   | 218-443  | FITTING - hydraulic .....                                | 1     |
| 11   | C26439   | TUBE - bucket cylinder .....                             | 1     |
| 12   | 720-303  | HOSE - bucket cylinder .....                             | 4     |
| 13   | C25164   | CLIP - tube mounting .....                               | 4     |
| 14   | 187-1036 | SCREW - 1/4" - 20 x 1/2" tapping .....                   | 4     |
| 15   | C25165   | GROMMET - tower .....                                    | 2     |
| 16   | C25167   | FITTING - special 90° (includes 218-5005 "O" ring) ..... | 2     |
| 17   | C26032   | TUBE - bucket valve to R.H. tower .....                  | 1     |
| 18   | C32121   | TUBE - bucket valve to L.H. tower .....                  | 1     |
| 19   | C25160   | TUBE - bucket valve to R.H. tower .....                  | 1     |
| 20   | C25158   | TUBE - bucket valve to L.H. tower .....                  | 1     |
| 21   | C25153   | TUBE - lift cylinder, rod end .....                      | 1     |
| 22   | C26435   | TUBE - lift cylinder, piston end .....                   | 2     |
| 23   | 720-301  | HOSE - lift cylinder .....                               | 4     |
| 24   | C47736   | TUBE - bucket cylinder R.H. ....                         | 1     |
| 25   | C47737   | TUBE - bucket cylinder L.H. ....                         | 1     |
| 26   | 218-1022 | FITTING - hydraulic .....                                | 4     |
| 27   | 214-262  | CLAMP - 2-5/16" to 3-1/4" .....                          | 3     |
| 28   | C33218   | CLIP - hose .....                                        | 2     |
| 29   | C34808   | SCREW - 1/4" - 20 x 3/4" self tap, flange head .....     | 2     |
| 30   | 195-518  | WASHER - 1/4" .....                                      | 2     |
| 31   | C47996   | CLIP - snap-in .....                                     | 1     |

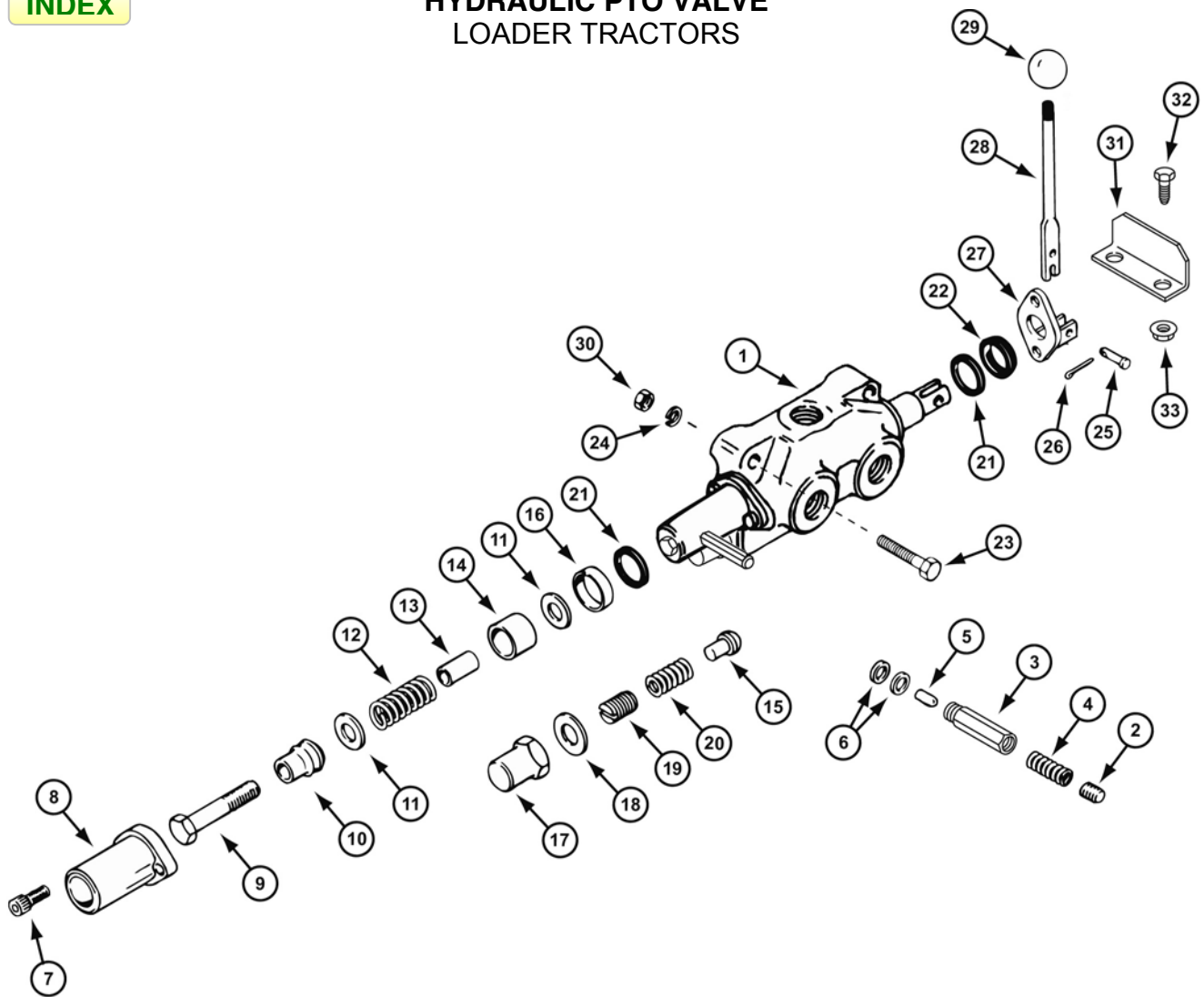


# PTO HYDRAULIC LINES (7020 Loader Tractor)

| REF. | PART NO. | DESCRIPTION                                                                | REQ'D |
|------|----------|----------------------------------------------------------------------------|-------|
| 1    | C47785   | HOSE - pump to PTO (rear) (also use C34186 hose before PIN 17193533) ..... | 1     |
| 2    | C47793   | HOSE - travel valve to PTO .....                                           | 1     |
| 3    | C15389   | CLAMP - tube .....                                                         | 1     |
| 4    | 113-3    | BOLT - 1/4" - 20 x 3/4" .....                                              | 1     |
| 5    | 192-19   | LOCKWASHER - 1/4" .....                                                    | 1     |
| 6    | 129-101  | NUT - 1/4" - 20 .....                                                      | 1     |
| 7    | 218-5107 | FITTING - 90° adjustable elbow (PTO inlet & outlet) .....                  | 2     |
| 8    | 218-5201 | FITTING - 90° swivel 7/8" - 14 (PTO work ports) .....                      | 2     |
| 9    | 218-5232 | FITTING - 5/8" x 5/8" tube.....                                            | 2     |
| 10   | C32149   | HOSE - PTO valve (inlet) .....                                             | 1     |
| 11   | C47886   | HOSE - PTO valve (outlet) .....                                            | 1     |
| 12   | C46934   | FITTING - pipe nipple 1/2" .....                                           | 2     |
| 13   | C37187   | NIPPLE - quick disconnect (male).....                                      | 1     |
| 14   | C37188   | CONNECTOR - quick disconnect (female) .....                                | 1     |
| 15   | C40641   | CAP - dust .....                                                           | 1     |
| 16   | C40642   | PLUG - dust .....                                                          | 1     |
| 17   | 218-5062 | FITTING - 5/8" tube x 7/8" - 14 .....                                      | 1     |

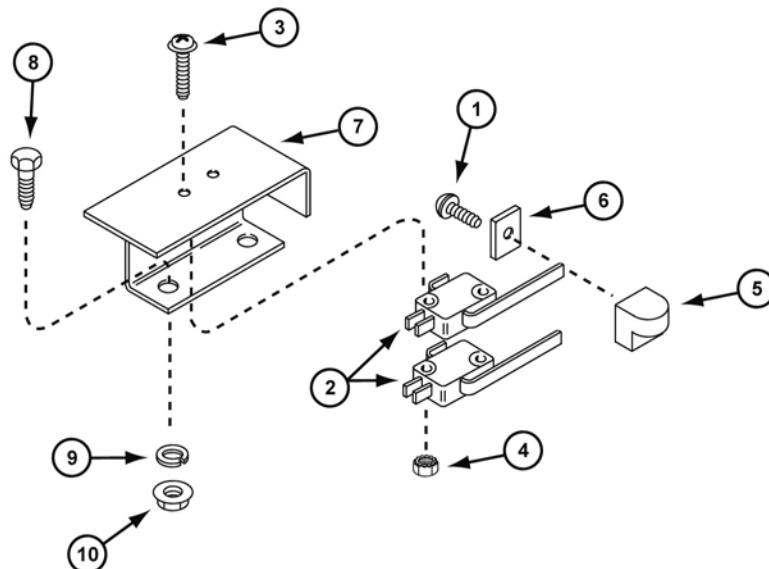
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**HYDRAULIC PTO VALVE  
LOADER TRACTORS**



**INDEX**

**PTO INTER-LOCK SWITCH ASSEMBLY**



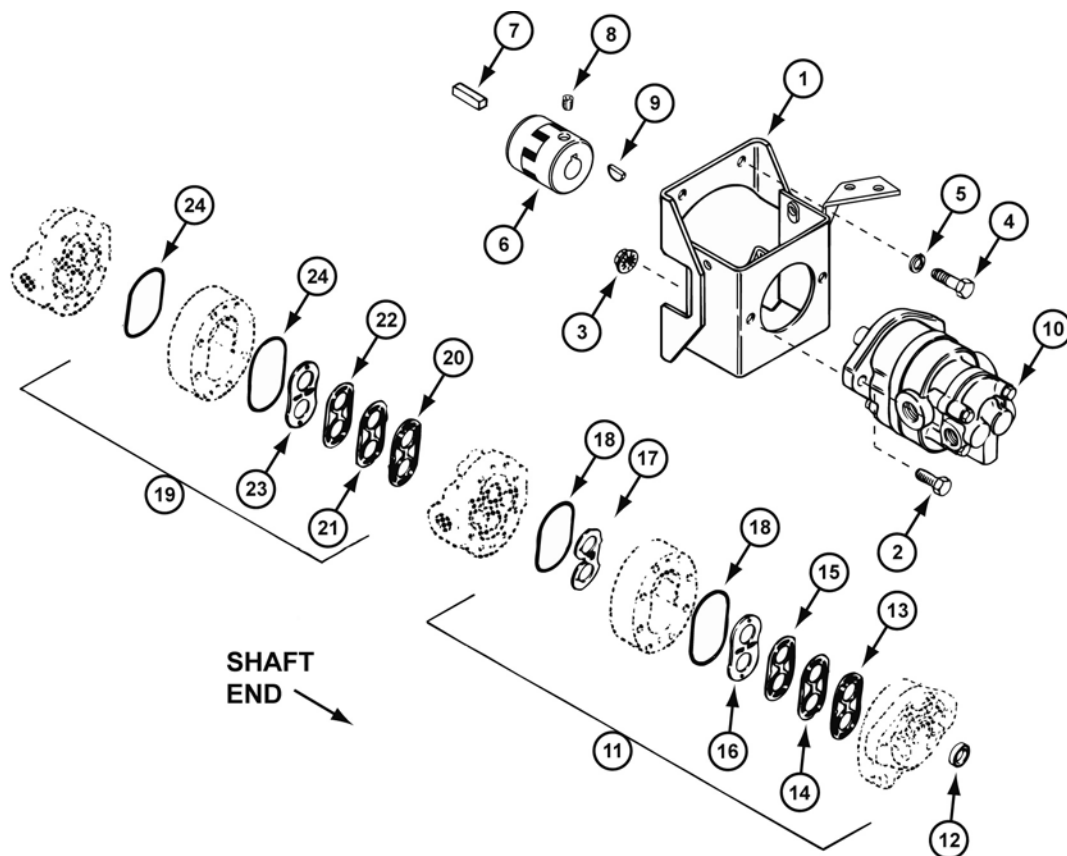
**INDEX****PTO HYDRAULIC VALVE (7020 Loader Tractor)**

| REF. | PART NO. | DESCRIPTION                                | REQ'D |
|------|----------|--------------------------------------------|-------|
| 1    | C33426   | VALVE - hydraulic (2100 PSI Relief) .....  | 1     |
| 2    | 83-56    | SCREW - set 5/16" - 18 .....               | 1     |
| 3    | C26719   | HOUSING - detent plunger .....             | 1     |
| 4    | C26718   | SPRING - detent plunger .....              | 1     |
| 5    | C26717   | PLUNGER - detent .....                     | 1     |
| 6    | C26716   | WASHER - aluminum, seal .....              | UAR   |
| 7    | 165-143  | SCREW - socket head 1/4" - 20 x 3/4" ..... | 4     |
| 8    | C26715   | BONNET - end cap .....                     | 1     |
| 9    | 113-110  | BOLT - 5/16" - 18 x 2-1/4" .....           | 1     |
| 10   | C26714   | SLEEVE - detent .....                      | 1     |
| 11   | 195-526  | WASHER .....                               | 1     |
| 12   | C26721   | SPRING - centering .....                   | 1     |
| 13   | C26720   | SPACER - detent .....                      | 1     |
| 14   | C26713   | SPACER - spool .....                       | 1     |
| 15   | C26708   | POPPET - relief .....                      | 1     |
| 16   | C26722   | SPACER - end cap .....                     | 1     |
| 17   | C26712   | NUT - cap, relief .....                    | 1     |
| 18   | C26710   | WASHER - aluminum, seal .....              | 1     |
| 19   | C26711   | SCREW - adjustment, relief .....           | 1     |
| 20   | C26709   | SPRING - relief .....                      | 1     |
| 21   | C26707   | RING - quad .....                          | 2     |
| 22   | C26706   | WIPER - spool .....                        | 1     |
| 23   | 113-5    | BOLT - 1/4" - 20 x 1-1/2" .....            | 3     |
| 24   | 192-19   | LOCKWASHER - 1/4" .....                    | 3     |
| 25   | C28964   | PIN - clevis 3/16" .....                   | 1     |
| 26   | 132-329  | PIN - cotter .....                         | 1     |
| 27   | C32156   | BRACKET - handle .....                     | 1     |
| 28   | C32155   | HANDLE - valve .....                       | 1     |
| 29   | C32154   | KNOB - handle .....                        | 1     |
| 30   | 129-101  | NUT - 1/4" .....                           | 3     |
| 31   | C47233   | BRACKET - valve stop .....                 | 1     |
| 32   | 113-118  | BOLT - 5/16" - 18 x 5/8" .....             | 2     |
| 33   | 131-C2   | NUT - 5/16" - 18 flange lock .....         | 2     |

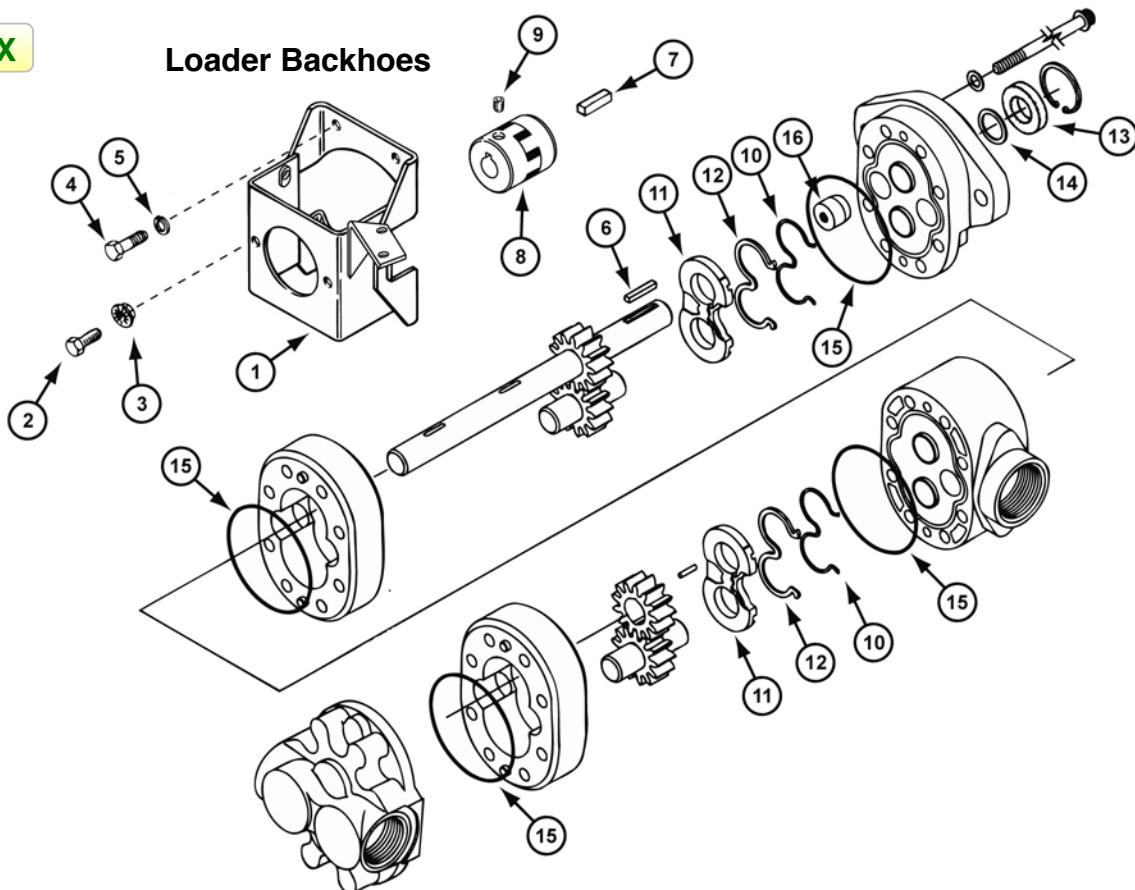
**INDEX****PTO INTER-LOCK SWITCH ASSEMBLY (7020 Loader Tractor)**

|    |          |                                       |   |
|----|----------|---------------------------------------|---|
| 1  | 187-1328 | SCREW - #8 - 18 x 3/8" self tap ..... | 1 |
| 2  | C30275   | SWITCH - neutral inter-lock .....     | 2 |
| 3  | C33696   | SCREW - #4 - 40 x 1-1/8" .....        | 2 |
| 4  | C33697   | NUT - #4 - 40 .....                   | 2 |
| 5  | C37198   | CAM - switch .....                    | 1 |
| 6  | C44029   | RETAINER - switch lever .....         | 1 |
| 7  | C47307   | BRACKET - switch mount .....          | 1 |
| 8  | 113-2    | BOLT - 1/4" - 20 x 5/8" .....         | 2 |
| 9  | 192-19   | LOCKWASHER - 1/4" .....               | 2 |
| 10 | 131-934  | NUT - 1/4" - 20 flange lock .....     | 2 |

# Loader Tractors



# Loader Backhoes

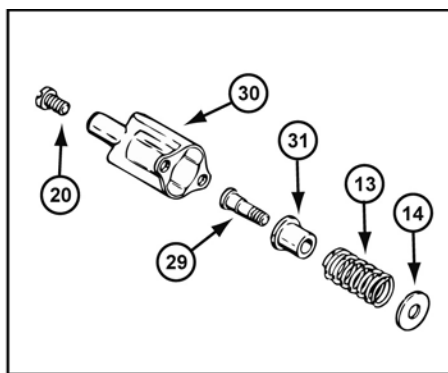


**INDEX****MAIN HYDRAULIC PUMP, COUPLING AND MOUNT  
(7020 Loader Tractor)**

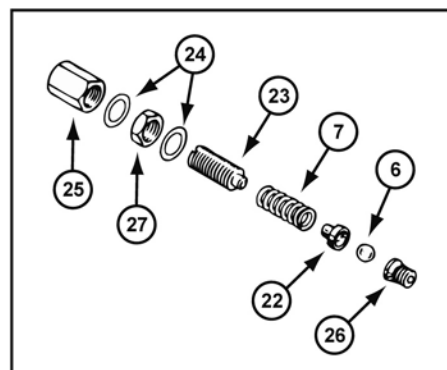
| REF. | PART NO. | DESCRIPTION                                           | REQ'D |
|------|----------|-------------------------------------------------------|-------|
| 1    | C47559   | MOUNT - pump .....                                    | 1     |
| 2    | 113-208  | BOLT - 3/8" - 16 x 1-1/4" .....                       | 2     |
| 3    | 131-938  | NUT - 3/8" - 16 flange lock .....                     | 2     |
| 4    | 113-310  | BOLT - 7/16" - 14 x 1" .....                          | 4     |
| 5    | 192-22   | LOCKWASHER - 7/16" .....                              | 4     |
| 6    | C47794   | COUPLING - pump .....                                 | 1     |
| 7    | C28321   | KEY - 1/4" x 1/4" x 3/4" (engine shaft) .....         | 1     |
| 8    | 178-858  | SCREW - set 5/16" x 3/8" .....                        | 2     |
| 9    | 126-13   | KEY - 3/16" x 5/8" woodruff carbon (pump shaft) ..... | 1     |
| 10   | C32170   | PUMP - hydraulic, double (Loader Tractors Only).....  | 1     |
| 11   | C32955   | KIT - seal (main pump section) .....                  | 1     |
| 12   | C33110   | SEAL - shaft .....                                    | 1     |
| 13   | NSS      | SEAL - "V" ("V" side towards cover) .....             | 1     |
| 14   | NSS      | GASKET .....                                          | 1     |
| 15   | NSS      | SHIELD - heat .....                                   | 1     |
| 16   | NSS      | PLATE - wear (bronze side towards gears) .....        | 1     |
| 17   | NSS      | PLATE - thrust (bronze side towards gears) .....      | 1     |
| 18   | C33111   | "O" RING .....                                        | 2     |
| 19   | C32956   | KIT - seal (secondary pump section) .....             | 1     |
| 20   | NSS      | SEAL - "V" ("V" side towards body) .....              | 1     |
| 21   | NSS      | GASKET .....                                          | 1     |
| 22   | NSS      | SHIELD - heat .....                                   | 1     |
| 23   | NSS      | PLATE - wear (bronze side towards gears) .....        | 1     |
| 24   | C15732   | "O" RING .....                                        | 2     |
|      | NSS      | SEAL - shaft (not used).....                          | 1     |

**INDEX****MAIN HYDRAULIC PUMP, COUPLING AND MOUNT  
(7020BH)**

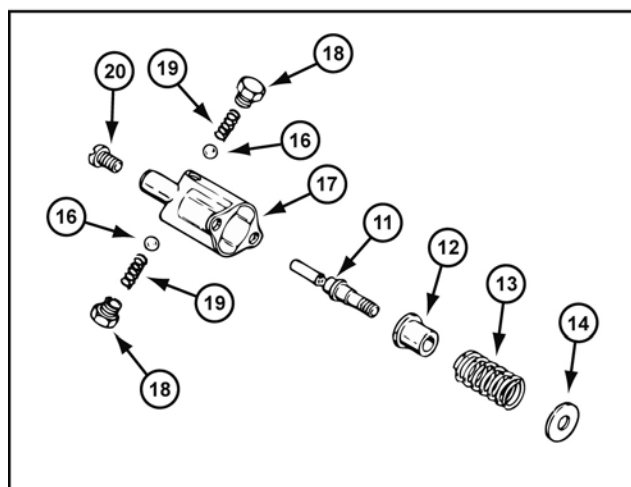
|    |         |                                                      |   |
|----|---------|------------------------------------------------------|---|
| 1  | C47559  | MOUNT - pump .....                                   | 1 |
| 2  | 113-208 | BOLT - 3/8" - 16 x 1-1/4" .....                      | 2 |
| 3  | 131-938 | NUT - 3/8" - 16 flange lock .....                    | 2 |
| 4  | 113-310 | BOLT - 7/16" - 14 x 1" .....                         | 4 |
| 5  | 192-22  | LOCKWASHER - 7/16" .....                             | 4 |
| 6  | C43819  | KEY - 3/16" x 1" (pump shaft) .....                  | 1 |
| 7  | C28321  | KEY - 1/4" x 1/4" x 3/4" (engine shaft) .....        | 1 |
| 8  | C47794  | COUPLING - pump .....                                | 1 |
| 9  | 178-858 | SCREW - set .....                                    | 2 |
|    | C46971  | PUMP - hydraulic, double (Loader Backhoes only)..... | 1 |
|    | C43818  | KIT - seal, complete .....                           | 1 |
| 10 | NSS     | GASKET - backup .....                                | 2 |
| 11 | NSS     | PLATE - wear .....                                   | 2 |
| 12 | NSS     | SEAL - wear plate .....                              | 2 |
| 13 | NSS     | SEAL - shaft .....                                   | 1 |
| 14 | NSS     | WASHER .....                                         | 1 |
| 15 | NSS     | "O" RING .....                                       | 4 |
| 16 | NSS     | PLUG - internal .....                                | 1 |



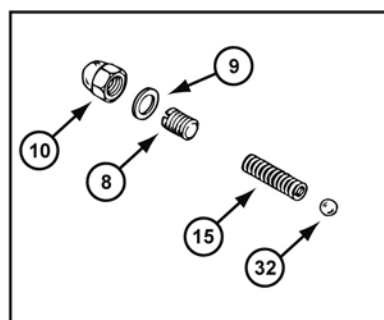
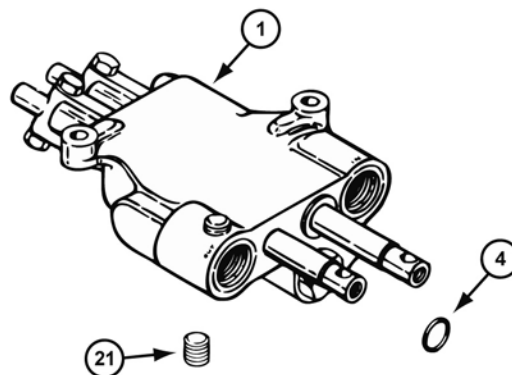
TRAVEL SECTION END COVER



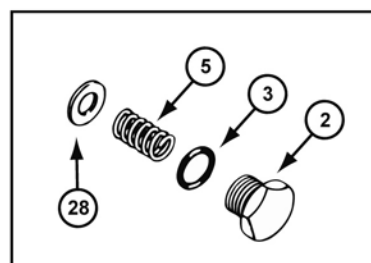
TRAVEL SECTION RELIEF GROUP



LIFT SECTION DETENT GROUP



LIFT SECTION RELIEF GROUP

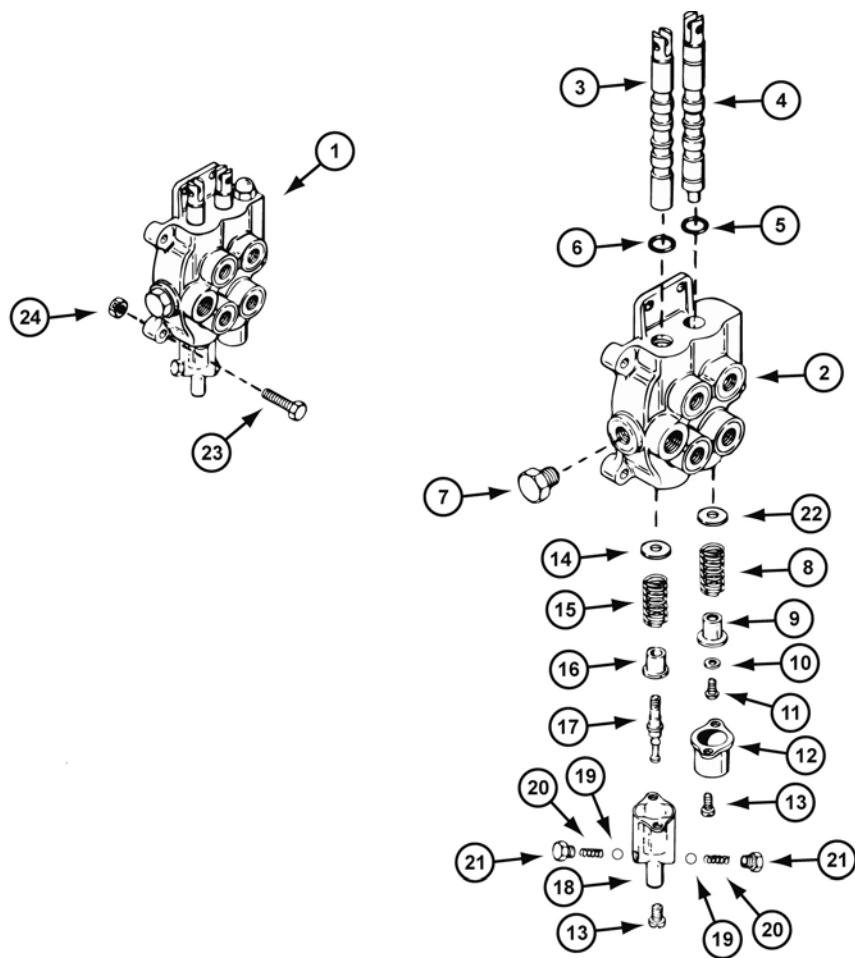


HOLDING SECTION GROUP

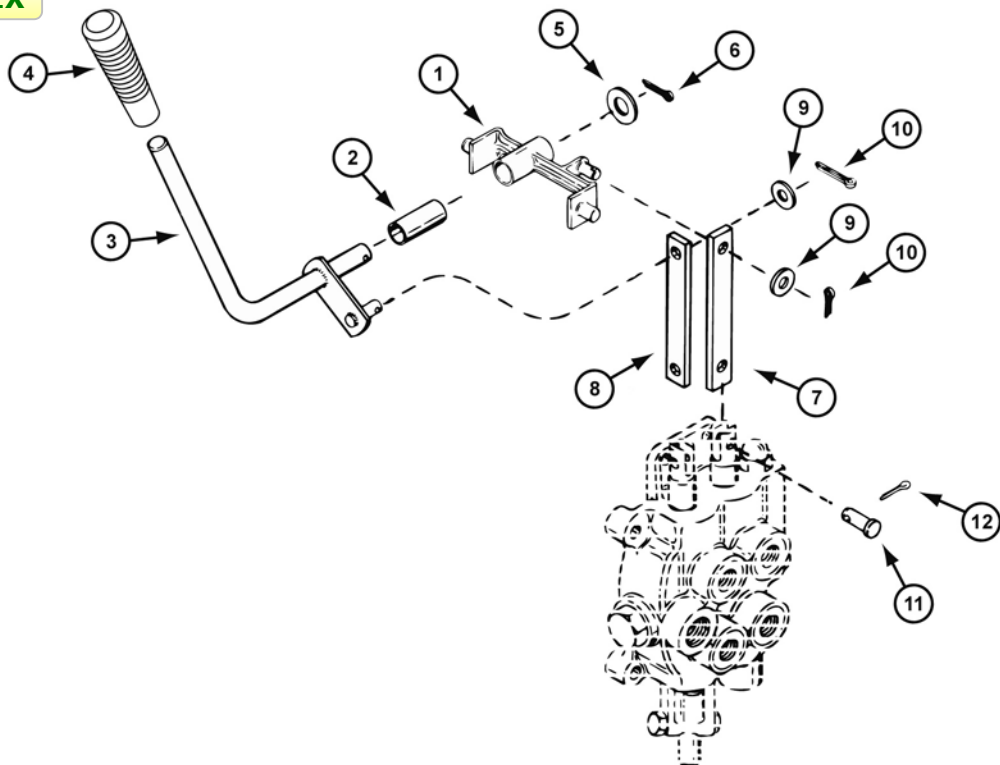
**INDEX****HYDRAULIC CONTROL VALVE (TRACTOR)**

| REF. | PART NO. | DESCRIPTION                                                      | REQ'D |
|------|----------|------------------------------------------------------------------|-------|
| 1    | C46972   | VALVE - control, two spool (7020BH) .....                        | 1     |
| 1    | C45909   | VALVE - control, two spool (7020) .....                          | 1     |
| 2    | C29956   | CAP - end .....                                                  | 2     |
| 3    | C28217   | "O" RING - end cap .....                                         | 1     |
| 4    | C28856   | SEAL - spool .....                                               | 4     |
| 5    | C29951   | SPRING - centering .....                                         | 2     |
| 6    | 211-208  | BALL - steel 5/16" (7.94mm) .....                                | 1     |
| 7    | C21507   | SPRING - relief .....                                            | 2     |
| 8    | C17433   | SCREW - relief adjust .....                                      | 1     |
| 9    | C17435   | GASKET - relief adjust cap .....                                 | 1     |
| 10   | 129-531  | CAP - adjust screw .....                                         | 2     |
| 11   | C26668   | DETENT - spool .....                                             | 1     |
| 12   | C28707   | SPACER - detent .....                                            | 1     |
| 13   | NSS      | SPRING - return (order C43926 kit, use spring only) .....        | 2     |
| 14   | NSS      | WASHER - return (order C43926 kit, use washer only) .....        | 2     |
| 15   | NSS      | SPRING - relief (order C21511 relief kit, use spring only) ..... | 1     |
| 16   | 211-5    | BALL - steel 3/16" (4.76 mm) .....                               | 2     |
| 17   | C17438   | COVER - detent .....                                             | 1     |
| 18   | C28708   | SCREW - detent .....                                             | 4     |
| 19   | C17444   | SPRING - detent .....                                            | 2     |
| 20   | 169-114  | SCREW - cover .....                                              | 4     |
| 21   | 221-841  | PLUG - pipe .....                                                | 1     |
| 22   | C21506   | RETAINER - ball seat .....                                       | 1     |
| 23   | C26665   | SCREW - adjust, relief .....                                     | 1     |
| 24   | C26664   | GASKET - adjust cap .....                                        | 1     |
| 25   | C26666   | CAP - adjust screw .....                                         | 1     |
| 26   | C26663   | SEAT - relief ball .....                                         | 1     |
| 27   | 129-166  | NUT - lock .....                                                 | 1     |
| 28   | C29950   | WASHER - spring retaining .....                                  | 2     |
| 29   | C47353   | SCREW .....                                                      | 1     |
| 30   | C47352   | COVER .....                                                      | 2     |
| 31   | C47354   | SPACER .....                                                     | 2     |
| 32   | 211-7    | BALL - steel 1/4" (6.35mm) .....                                 | 1     |
|      | C30002   | KIT - seal .....                                                 | 1     |

# BUCKET CONTROL VALVE



# BUCKET CONTROL LINKAGE



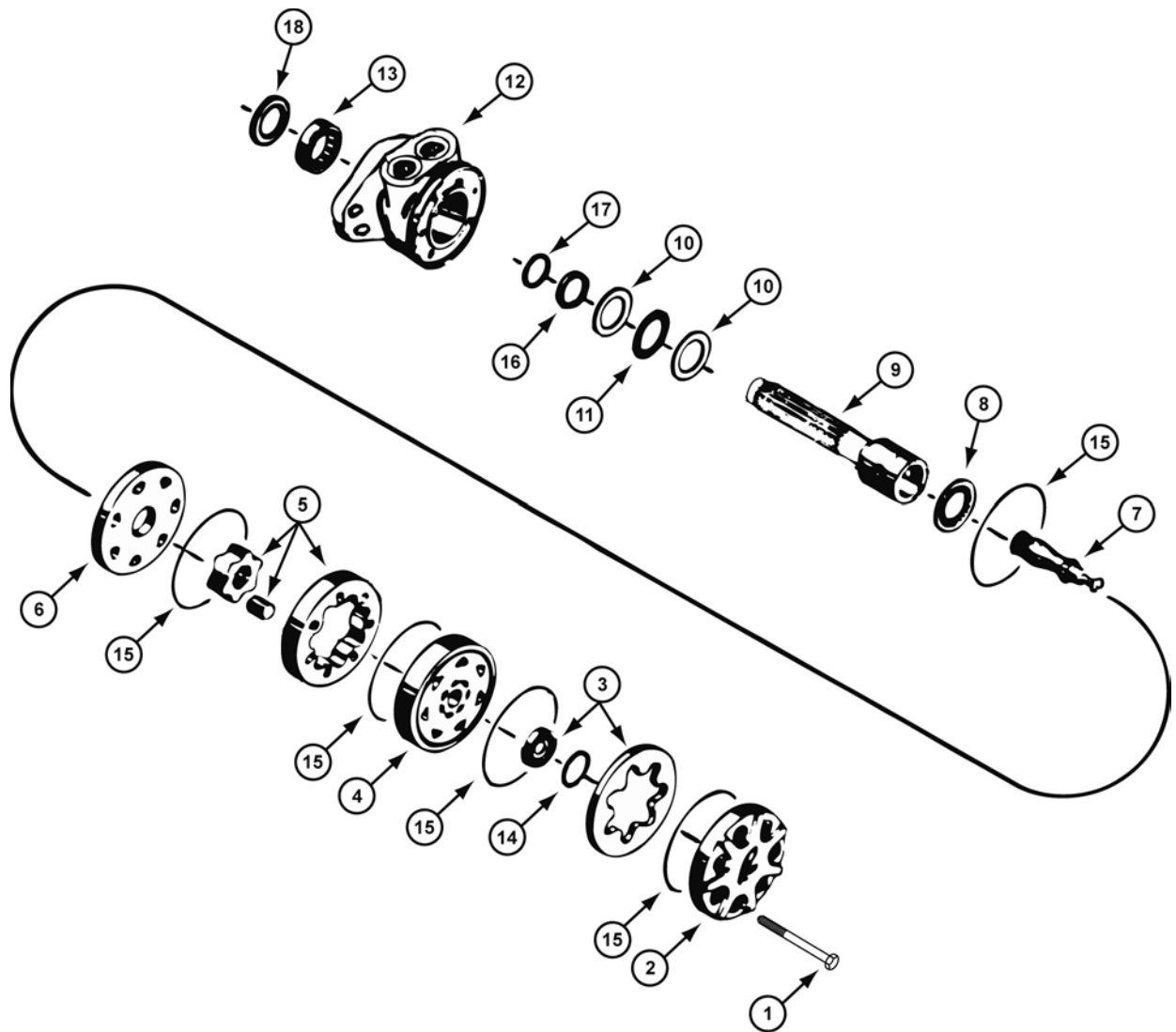
**INDEX****HYDRAULIC CONTROL VALVE (BUCKET)**

| REF. | PART NO. | DESCRIPTION                                                           | REQ'D |
|------|----------|-----------------------------------------------------------------------|-------|
| 1    | C18179   | VALVE - bucket control .....                                          | 1     |
| 2    | NSS      | BODY - valve (order C18179 valve) .....                               | 1     |
| 3    | NSS      | SPOOL - valve (order C18179 valve) .....                              | 1     |
| 4    | NSS      | SPOOL - valve (order C18179 valve) .....                              | 1     |
| 5    | C28989   | SEAL - "O" ring, spool .....                                          | 2     |
| 6    | C28856   | SEAL - "O" ring, spool .....                                          | 2     |
| 7    | 221-843  | PLUG - 3/8" .....                                                     | 1     |
| 8    | C26431   | SPRING - return .....                                                 | 1     |
| 9    | C13200   | SPACER .....                                                          | 1     |
| 10   | 195-510  | WASHER .....                                                          | 1     |
| 11   | 193-524  | SCREW .....                                                           | 1     |
| 12   | C18847   | COVER - centering .....                                               | 1     |
| 13   | 169-114  | SCREW - cover .....                                                   | 4     |
| 14   | C17440   | WASHER .....                                                          | 1     |
| 15   | C17441   | SPRING - return .....                                                 | 1     |
| 16   | C13200   | SPACER - detent .....                                                 | 1     |
| 17   | C17439   | DETENT - spool .....                                                  | 1     |
| 18   | C17438   | COVER - detent .....                                                  | 1     |
| 19   | 211-7    | BALL - steel 1/4" .....                                               | 2     |
| 20   | C17444   | SPRING - detent .....                                                 | 2     |
| 21   | C17443   | SCREW - detent .....                                                  | 2     |
| 22   | 195-521  | WASHER - return .....                                                 | 1     |
| 23   | 113-17   | BOLT - valve mounting 1/4" x 1-1/4" NC hex .....                      | 3     |
| 24   | 131-1102 | NUT - lock 1/4" NC hex .....                                          | 3     |
|      | C18846   | KIT - spring, center (includes items 22, 23, 24, 25, 26 and 27) ..... | 1     |
|      | C18851   | KIT - detent (includes items 14, 15, 16, 17, 18, 19, 20 and 22) ..... | 1     |

**INDEX****BUCKET CONTROL LINKAGE**

|    |         |                                    |   |
|----|---------|------------------------------------|---|
| 1  | C24445  | BRACKET - pivot .....              | 1 |
| 2  | C16714  | BUSHING - pivot bracket .....      | 1 |
| 3  | C46488  | LEVER - bucket control .....       | 1 |
| 4  | C46481  | GRIP - lever, bucket control ..... | 1 |
| 5  | 195-533 | WASHER - 1/2" .....                | 1 |
| 6  | 132-321 | PIN - cotter 3/32" x 1" .....      | 1 |
| 7  | C34744  | LINK - valve 4" .....              | 1 |
| 8  | C34745  | LINK - valve 3-3/4" .....          | 1 |
| 9  | 195-521 | WASHER - 5/16" .....               | 2 |
| 10 | 132-320 | PIN - cotter 3/32" x 3/4" .....    | 2 |
| 11 | 141-2   | PIN - clevis .....                 | 2 |
| 12 | 132-329 | PIN - cotter 1/16" x 3/4" .....    | 2 |

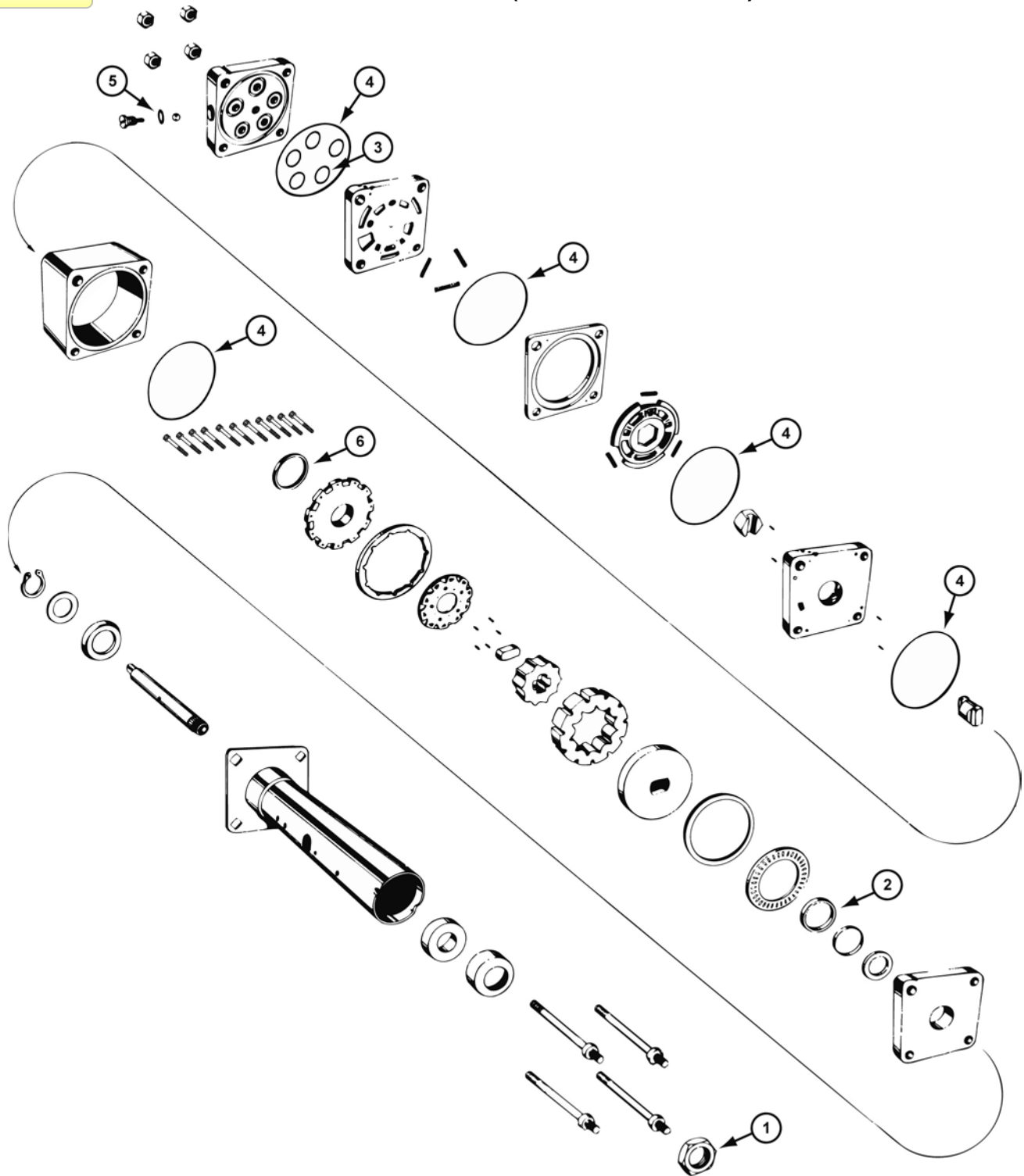
# HYDRAULIC DRIVE MOTOR



**INDEX****HYDRAULIC DRIVE MOTOR**

| REF. | PART NO. | DESCRIPTION                   | REQ'D |
|------|----------|-------------------------------|-------|
|      | C46957   | MOTOR - hydraulic .....       | 1     |
| 1    | C47089   | BOLT - 3/8" - 24 .....        | 7     |
| 2    | C31309   | COVER - end .....             | 1     |
| 3    | C31310   | COMMUTATOR AND RING SET ..... | 1     |
| 4    | C31311   | MANIFOLD .....                | 1     |
| 5    | C47090   | ROTOR ASSEMBLY .....          | 1     |
| 6    | C31314   | PLATE - wear .....            | 1     |
| 7    | C47091   | LINK - drive .....            | 1     |
| 8    | C31317   | BEARING - thrust .....        | 1     |
| 9    | C47092   | SHAFT - coupling .....        | 1     |
| 10   | C31319   | WASHER - thrust .....         | 2     |
| 11   | C31320   | BEARING - thrust .....        | 1     |
| 12   | C31321   | HOUSING - drive end .....     | 1     |
| 13   | C31322   | BEARING - outer .....         | 1     |
|      | C31323   | KIT - seal .....              | 1     |
| 14   | NSS      | SEAL - commutator ring .....  | 1     |
| 15   | NSS      | SEAL - ring .....             | 5     |
| 16   | NSS      | SEAL - ring .....             | 1     |
| 17   | NSS      | WASHER - backup .....         | 1     |
| 18   | NSS      | SEAL - dirt (not used) .....  | 1     |

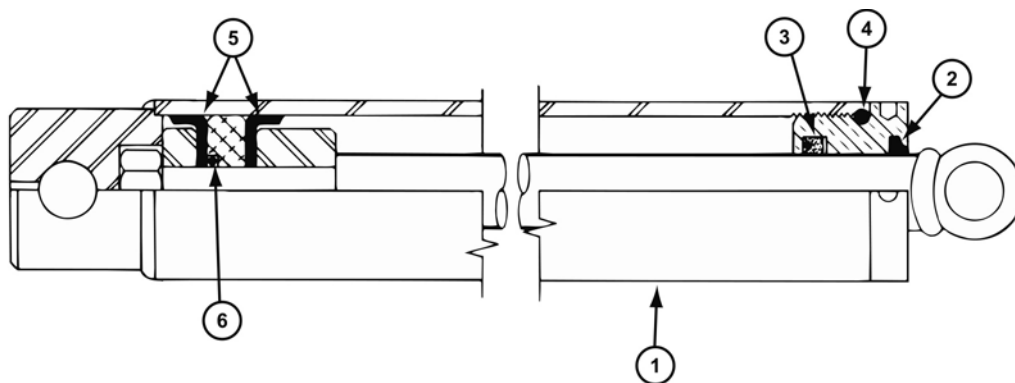
# MANUAL PUMP (POWER STEERING)



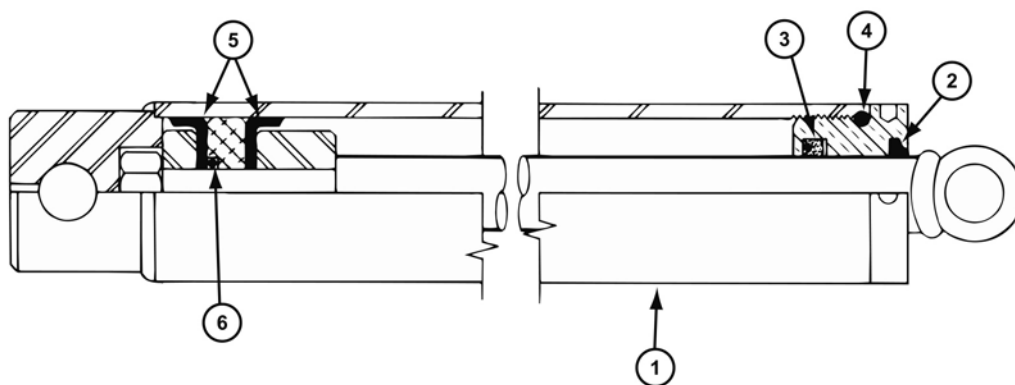
**INDEX****MANUAL PUMP (POWER STEERING)**

| REF. | PART NO. | DESCRIPTION                                      | REQ'D |
|------|----------|--------------------------------------------------|-------|
|      | C46447   | PUMP - steering, manual, five port (shown) ..... | 1     |
| 1    | 129-127  | NUT - 5/8" - 18 .....                            | 1     |
|      | C46453   | KIT - seal (for five port steering pump) .....   | 1     |
| 2    | NSS      | SEAL - face .....                                | 1     |
| 3    | NSS      | "O" RING .....                                   | UAR   |
| 4    | NSS      | RING - seal .....                                | 5     |
| 5    | NSS      | "O" RING .....                                   | 1     |
| 6    | NSS      | SEAL - commutator .....                          | 1     |

## CYLINDER - LIFT ARM



## CYLINDER - BUCKET



**INDEX****CYLINDER - LIFT ARM**

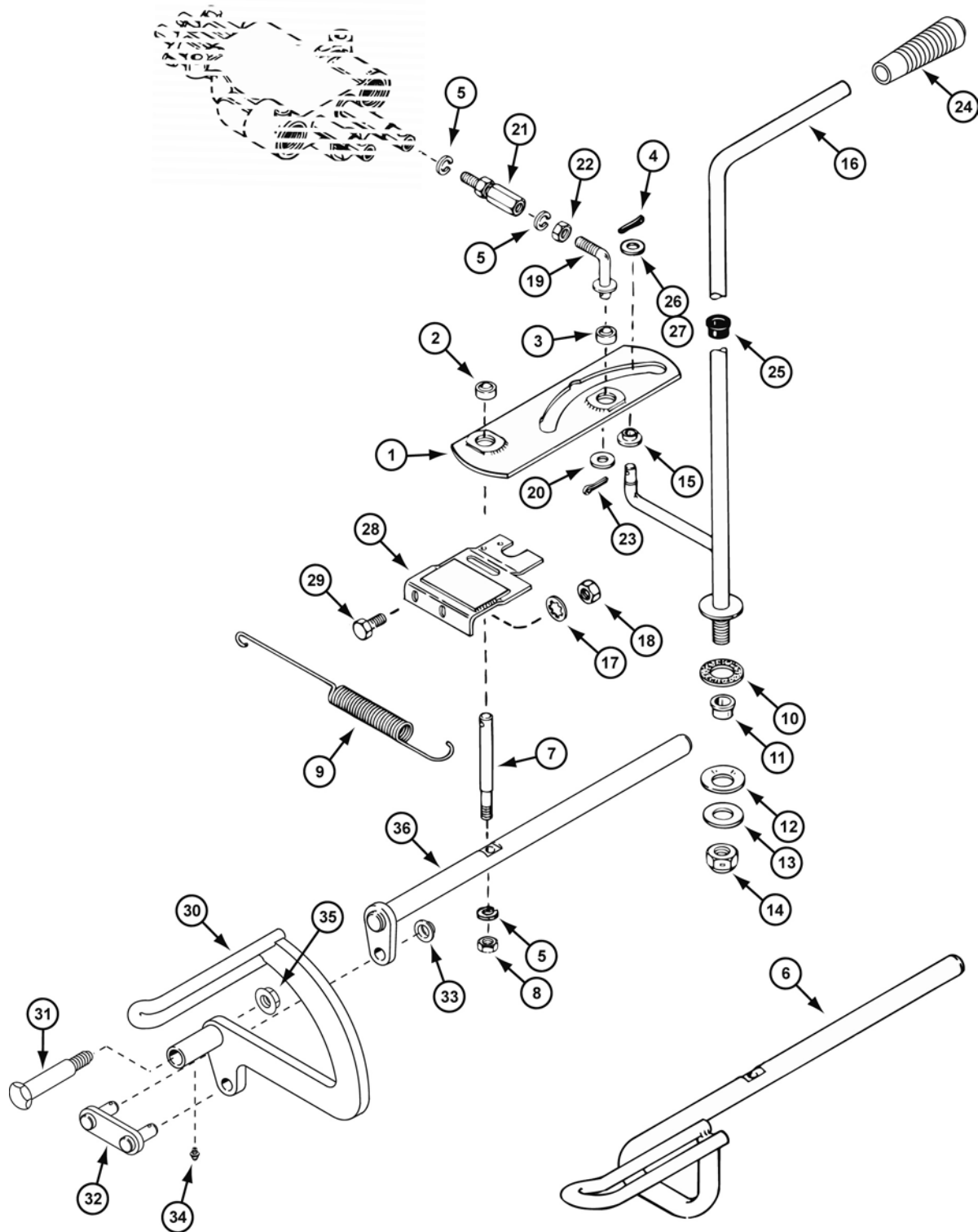
| REF. | PART NO. | DESCRIPTION                   | REQ'D |
|------|----------|-------------------------------|-------|
| 1    | C26433   | CYLINDER - lift arm .....     | 2     |
|      | C26445   | KIT - seal .....              | 1     |
| 2    | NSS      | SEAL - wiper .....            | 1     |
| 3    | NSS      | "O" RING AND SEAL - rod ..... | 1     |
| 4    | NSS      | "O" RING - body .....         | 1     |
| 5    | NSS      | SEAL - piston .....           | 2     |
| 6    | NSS      | "O" RING - piston .....       | 1     |

**CYLINDER - BUCKET**

|   |        |                               |   |
|---|--------|-------------------------------|---|
| 1 | C26432 | CYLINDER - bucket .....       | 1 |
|   | C26444 | KIT - seal .....              | 1 |
| 2 | NSS    | SEAL - wiper .....            | 1 |
| 3 | NSS    | "O" RING AND SEAL - rod ..... | 1 |
| 4 | NSS    | "O" RING - body .....         | 1 |
| 5 | NSS    | SEAL - piston .....           | 2 |
| 6 | NSS    | "O" RING - piston .....       | 1 |

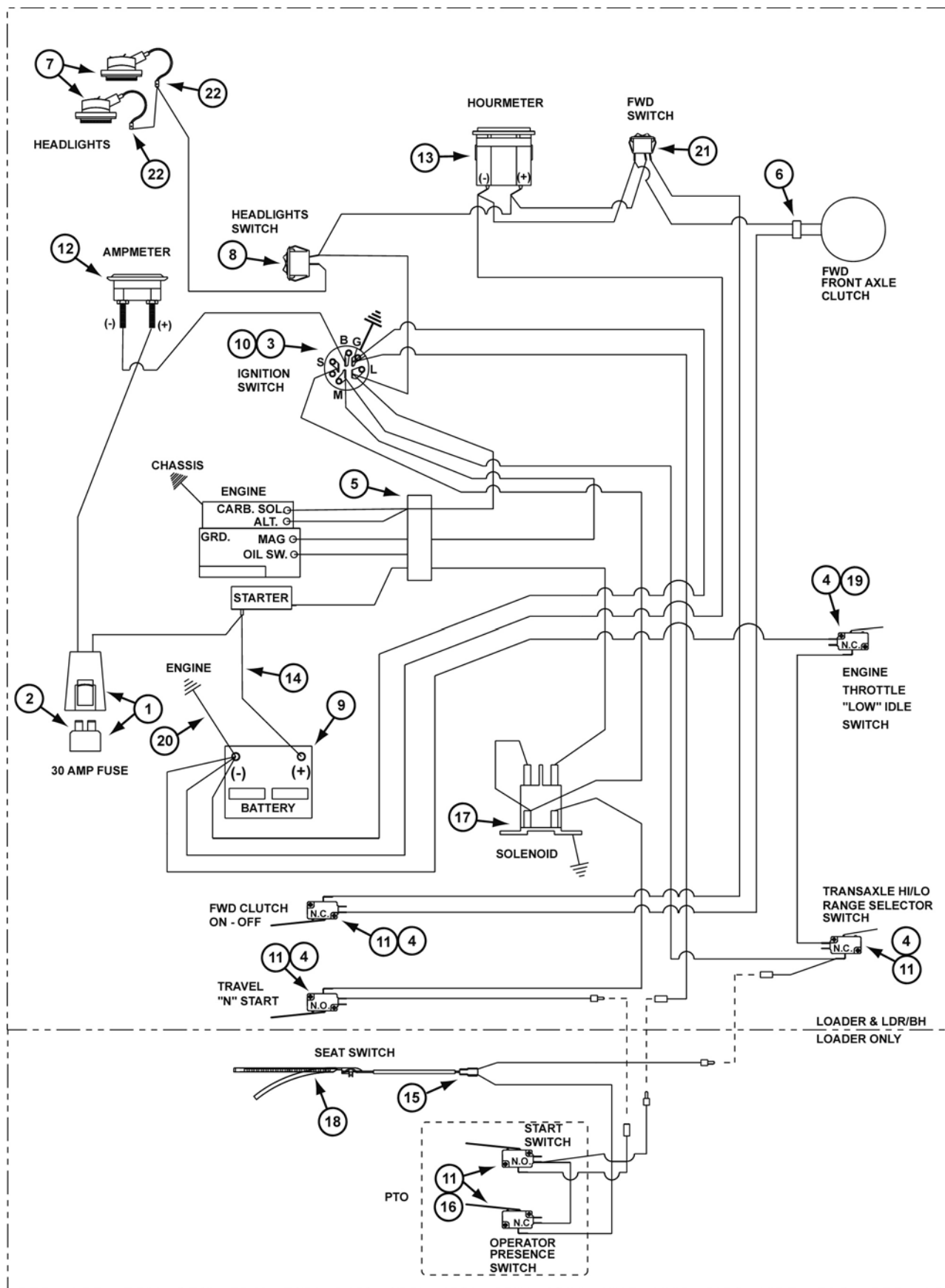
## INDEX

## TRAVEL CONTROL LINKAGE



## TRAVEL CONTROL LINKAGE

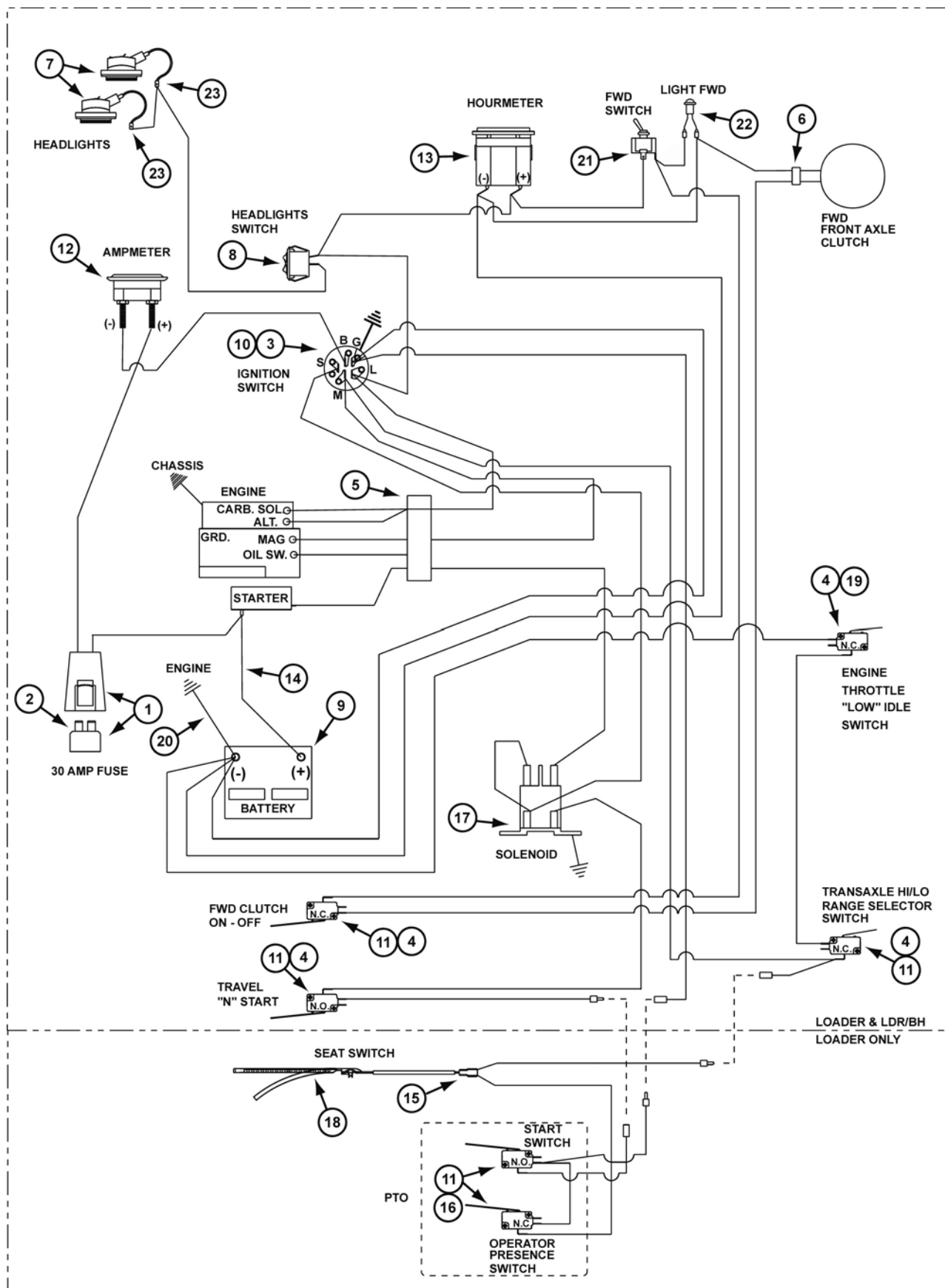
| REF. | PART NO. | DESCRIPTION                                                    | REQ'D |
|------|----------|----------------------------------------------------------------|-------|
| 1    | C29801   | ARM - control .....                                            | 1     |
| 2    | C29764   | BUSHING - ball .....                                           | 1     |
| 3    | C29800   | BUSHING - ball .....                                           | 1     |
| 4    | 132-334  | PIN - cotter 1/8" x 3/4" .....                                 | 1     |
| 5    | 192-20   | LOCKWASHER - 5/16" .....                                       | 3     |
| 6    | C26680   | PEDAL - travel control (use before PIN 17193801) .....         | 1     |
| 7    | C26424   | ROD - pedal control .....                                      | 1     |
| 8    | 129-102  | NUT - 5/16" NC hex .....                                       | 1     |
| 9    | C18277   | SPRING - pedal return .....                                    | 1     |
| 10   | C17551   | DISC - friction .....                                          | 1     |
| 11   | C26266   | BUSHING - nylon .....                                          | 1     |
| 12   | C18391   | WASHER - spring .....                                          | 1     |
| 13   | 195-533  | WASHER - 1/2" .....                                            | 3     |
| 14   | 131-165  | NUT - 1/2" NC hex lock .....                                   | 2     |
| 15   | C23514   | FOLLOWER - cam .....                                           | 1     |
| 16   | C46487   | LEVER - direction control .....                                | 1     |
| 17   | 193-29   | LOCKWASHER - 5/16" (internal tooth) .....                      | 2     |
| 18   | 129-102  | NUT - 5/16" - 18 N.C. hex .....                                | 2     |
| 19   | C29803   | ROD - valve control .....                                      | 1     |
| 20   | 195-521  | WASHER - 5/16" .....                                           | 1     |
| 21   | C19025   | BALLJOINT .....                                                | 1     |
| 22   | 129-122  | NUT - 5/16" NF hex .....                                       | 1     |
| 23   | 132-333  | PIN - cotter 1/8" x 5/8" .....                                 | 1     |
| 24   | C46481   | GRIP - control lever .....                                     | 1     |
| 25   | 353-442  | BUSHING - lever .....                                          | 1     |
| 26   | 195-520  | WASHER - spacer .....                                          | UAR   |
| 27   | C19377   | WASHER - spacer, 1/32" .....                                   | UAR   |
| 28   | C33315   | BRACKET - valve control .....                                  | 1     |
| 29   | 113-102  | BOLT - 5/16" x 3/4" N.C. hex .....                             | 2     |
| 30   | C47890   | PEDAL - travel control (use PIN 17193801 and after) .....      | 1     |
| 31   | C31499   | BOLT - shoulder (use PIN 17193801 and after) .....             | 1     |
| 32   | C47893   | LINK - travel pedal (use PIN 17193801 and after) .....         | 1     |
| 33   | C30817   | PUSHNUT - 3/8" (use PIN 17193801 and after) .....              | 2     |
| 34   | 219-403  | FITTING - grease (use PIN 17193801 and after) .....            | 1     |
| 35   | 131-930  | NUT - 1/2" - 13 flange lock (use PIN 17193801 and after) ..... | 1     |
| 36   | C47887   | ROD - travel (use PIN 17193801 and after) .....                | 1     |



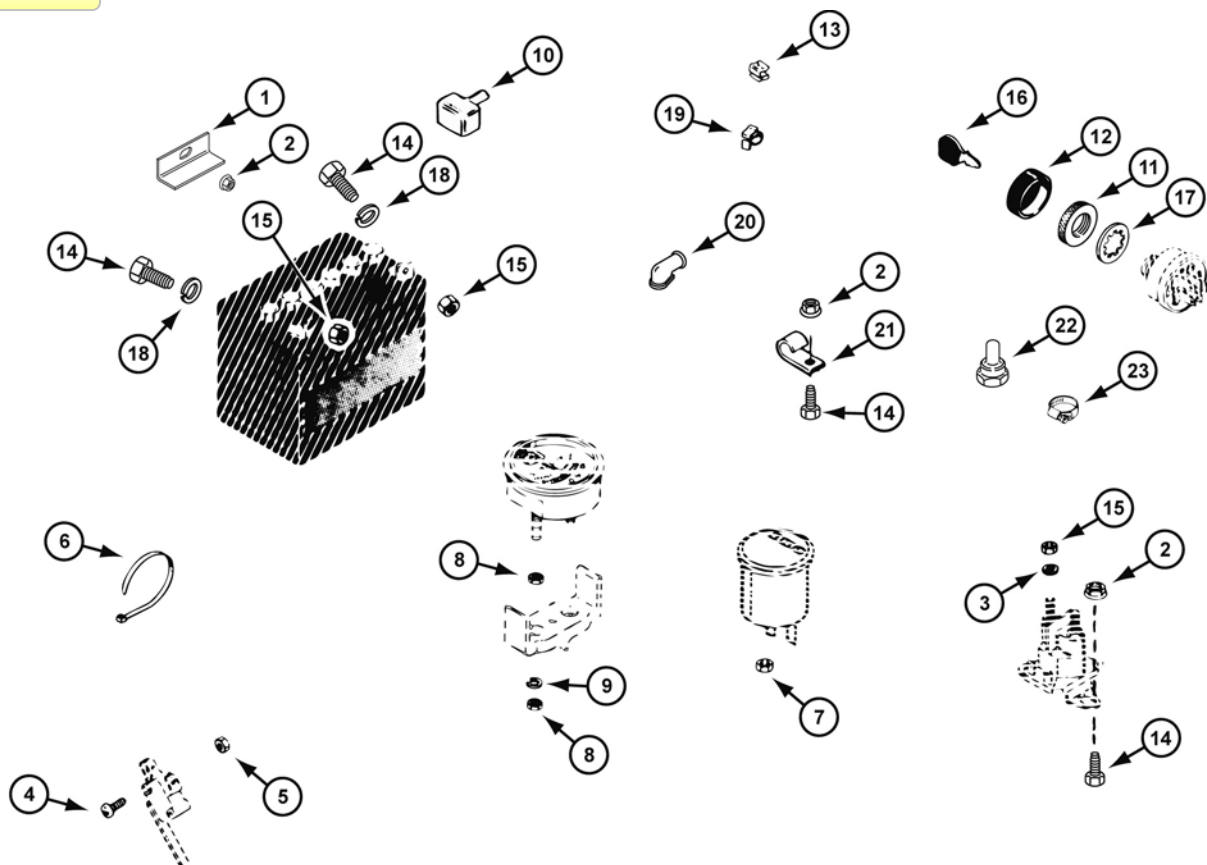
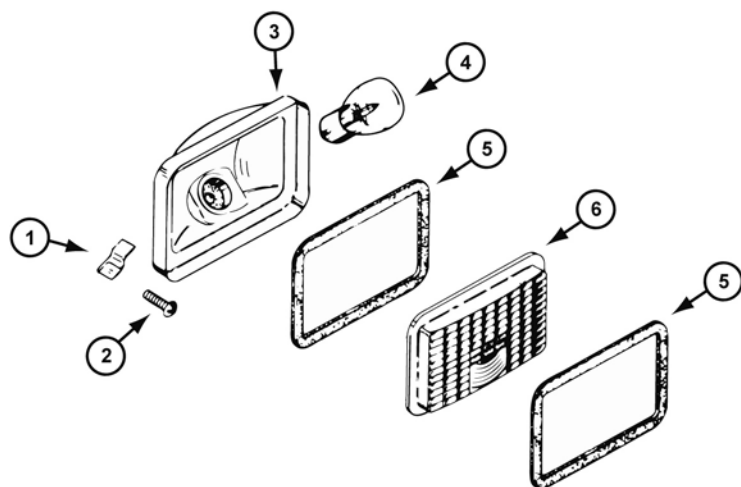
# **ELECTRICAL SYSTEM** **(Before PIN 17193801)**

**AFTER THIS PIN**

| REF. | PART NO. | DESCRIPTION                                                   | REQ'D |
|------|----------|---------------------------------------------------------------|-------|
|      | C47564   | HARNESS - wire, main .....                                    | 1     |
| 1    | C31947   | KIT - fuse holder .....                                       | 1     |
| 2    | C30260   | FUSE - 30 amp .....                                           | 1     |
| 3    | C24460   | CONNECTOR - ignition switch .....                             | 1     |
| 4    | C30279   | CONNECTOR - inter-lock switch .....                           | 3     |
| 5    | C46528   | CONNECTOR - engine .....                                      | 1     |
| 6    | C25243   | CONNECTOR - FWD clutch.....                                   | 1     |
| 7    | C32178   | HEADLIGHT - 12 volt ( <a href="#">repairs page 61</a> ) ..... | 2     |
| 8    | C43044   | SWITCH - headlight .....                                      | 1     |
| 9    | C41010   | BATTERY - 12 volt .....                                       | 1     |
| 10   | C30267   | SWITCH - ignition .....                                       | 1     |
|      | C32407   | KEY - ignition .....                                          | 2     |
| 11   | C30275   | SWITCH - inter-lock .....                                     | UAR   |
| 12   | C29413   | AMMETER - 12 volt .....                                       | 1     |
| 13   | C45917   | HOURLMETER - 12 volt .....                                    | 1     |
| 14   | C46875   | CABLE - battery to solenoid .....                             | 1     |
|      | C47565   | HARNESS - wire, rear PTO (7020) .....                         | 1     |
| 15   | C25338   | CONNECTOR - seat switch (7020) .....                          | 1     |
| 16   | C30279   | CONNECTOR - inter-lock switch (7020) .....                    | 2     |
| 17   | C33024   | SOLENOID - start .....                                        | 1     |
| 18   | C45537   | SWITCH - seat .....                                           | 1     |
| 19   | C47708   | SWITCH - inter-lock .....                                     | 1     |
| 20   | C31943   | CABLE - battery ground .....                                  | 2     |
| 21   | NSS      | SWITCH - FWD (use C47497 kit).....                            | 1     |
| 22   | C44169   | CONNECTOR - headlight .....                                   | 2     |



| REF. | PART NO. | DESCRIPTION                                                   | REQ'D |
|------|----------|---------------------------------------------------------------|-------|
|      | C47564   | HARNESS - wire, main .....                                    | 1     |
| 1    | C31947   | KIT - fuse holder .....                                       | 1     |
| 2    | C30260   | FUSE - 30 amp .....                                           | 1     |
| 3    | C24460   | CONNECTOR - ignition switch .....                             | 1     |
| 4    | C30279   | CONNECTOR - inter-lock switch .....                           | 3     |
| 5    | C46528   | CONNECTOR - engine .....                                      | 1     |
| 6    | C25243   | CONNECTOR - FWD clutch .....                                  | 1     |
| 7    | C32178   | HEADLIGHT - 12 volt ( <a href="#">repairs page 61</a> ) ..... | 2     |
| 8    | C43044   | SWITCH - headlight .....                                      | 1     |
| 9    | C41010   | BATTERY - 12 volt .....                                       | 1     |
| 10   | C30267   | SWITCH - ignition .....                                       | 1     |
|      | C32407   | KEY - ignition .....                                          | 2     |
| 11   | C30275   | SWITCH - inter-lock .....                                     | UAR   |
| 12   | C29413   | AMMETER - 12 volt .....                                       | 1     |
| 13   | C45917   | HOURLY METER - 12 volt .....                                  | 1     |
| 14   | C46875   | CABLE - battery to solenoid .....                             | 1     |
|      | C47565   | HARNESS - wire, rear PTO (7020) .....                         | 1     |
| 15   | C25338   | CONNECTOR - seat switch (7020) .....                          | 1     |
| 16   | C30279   | CONNECTOR - inter-lock switch (7020) .....                    | 2     |
| 17   | C33024   | SOLENOID - start .....                                        | 1     |
| 18   | C45537   | SWITCH - seat .....                                           | 1     |
| 19   | C47708   | SWITCH - inter-lock .....                                     | 1     |
| 20   | C31943   | CABLE - battery ground .....                                  | 2     |
| 21   | C47928   | SWITCH - FWD .....                                            | 1     |
| 22   | C45536   | LIGHT - indicator .....                                       | 1     |
| 23   | C44169   | CONNECTOR - headlight .....                                   | 2     |

**INDEX****ELECTRICAL SYSTEM HARDWARE****INDEX****HEADLIGHT ASSEMBLY**

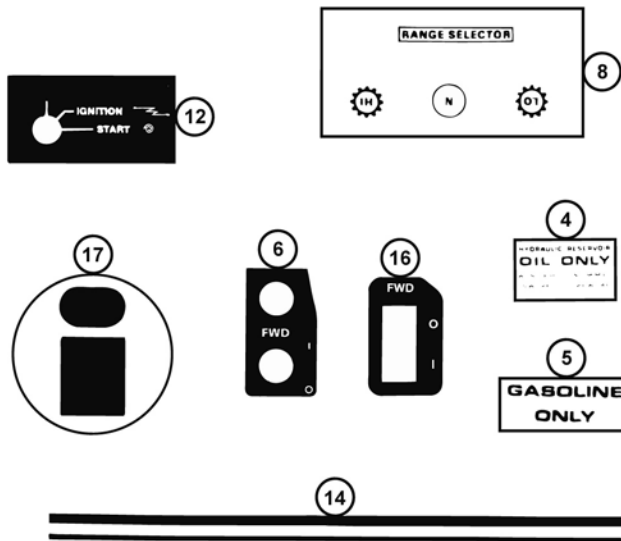
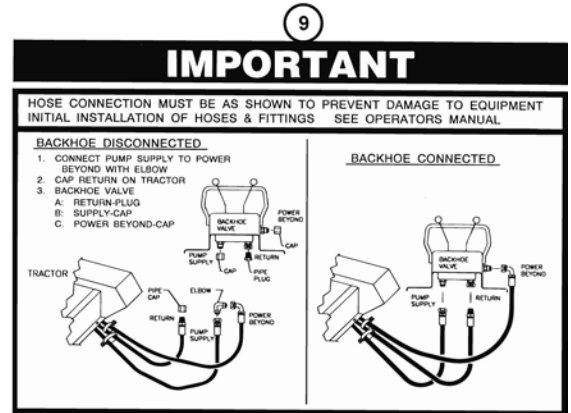
**INDEX****ELECTRICAL SYSTEM HARDWARE**

| REF. | PART NO. | DESCRIPTION                                                                   | REQ'D |
|------|----------|-------------------------------------------------------------------------------|-------|
| 1    | C33475   | RETAINER - battery .....                                                      | 1     |
| 2    | 131-934  | NUT - 1/4" - 20 flange lock .....                                             | 2     |
| 3    | 192-19   | LOCKWASHER - 1/4" .....                                                       | 2     |
| 4    | 182-10   | SCREW - #4 - 40 x 7/8" .....                                                  | 2     |
| 5    | C33697   | NUT - #4 - 40 .....                                                           | 2     |
| 6    | C22947   | TIE - wire .....                                                              | UAR   |
| 7    | 131-971  | NUT - #8 - 32 flange lock .....                                               | 2     |
| 8    | 129-27   | NUT - #10 NF .....                                                            | 4     |
| 9    | 192-18   | LOCKWASHER - #10 .....                                                        | 2     |
| 10   | C24069   | COVER - battery positive terminal .....                                       | 1     |
| 11   | C32396   | NUT - switch .....                                                            | 1     |
| 12   | C32397   | CAP - nut .....                                                               | 1     |
| 13   | C19521   | CLIP - wire .....                                                             | UAR   |
| 14   | 113-3    | BOLT - 1/4" - 20 x 3/4" .....                                                 | 4     |
| 15   | 129-101  | NUT - 1/4" - 20 .....                                                         | 4     |
| 16   | C32407   | KEY - ignition .....                                                          | 1     |
| 17   | 193-63   | LOCKWASHER - 5/8" .....                                                       | 1     |
| 18   | 195-518  | WASHER - 1/4" .....                                                           | 4     |
| 19   | C28962   | CLIP - wire .....                                                             | 1     |
| 20   | C44079   | INSULATOR - starter terminal .....                                            | 1     |
| 21   | C32455   | CLIP - "J" .....                                                              | UAR   |
| 22   | C47929   | BOOT - toggle switch (use PIN 17193801 and after) .....                       | 1     |
| 23   | 214-103  | CLAMP - hose, FWD indicator light retainer (use PIN 17193801 and after) ..... | 1     |

**INDEX****HEADLIGHT ASSEMBLY**

|   |          |                                                         |   |
|---|----------|---------------------------------------------------------|---|
| 1 | 131-629  | RETAINER - headlight .....                              | 4 |
| 2 | 187-1334 | SCREW - #8 x 1/2" .....                                 | 4 |
|   | C32178   | HEADLIGHT ASSEMBLY .....                                | 2 |
| 3 | NSS      | RECEPTACLE - headlight (order headlight assembly) ..... | 1 |
| 4 | C28932   | BULB - headlight .....                                  | 1 |
| 5 | C14304   | GASKET - headlight .....                                | 2 |
| 6 | C22573   | LENS - headlight .....                                  | 1 |

# INDEX

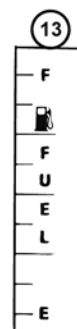


**7020**

**4WD**



**INGERSOLL**

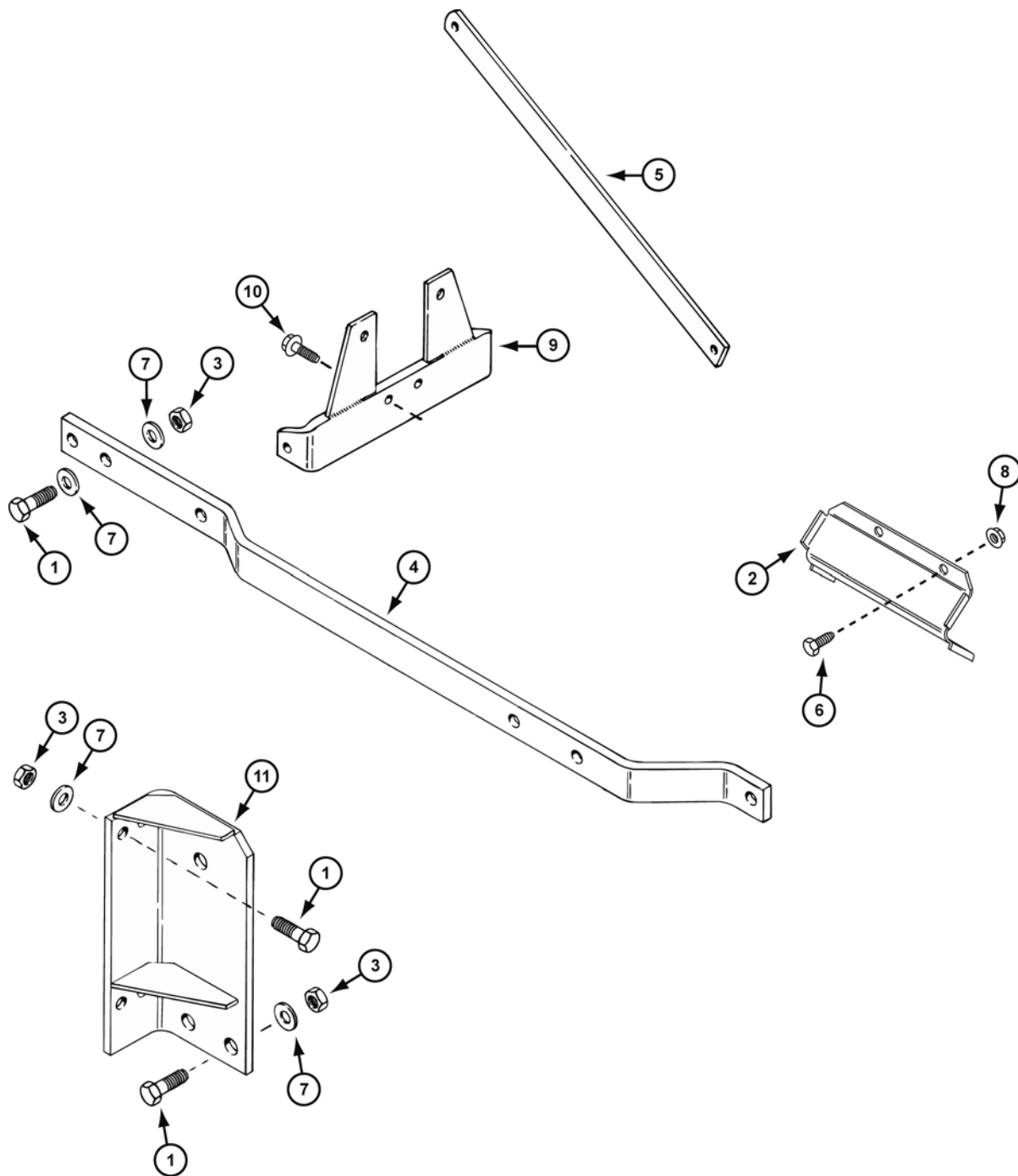


**INDEX****DECALS**

| REF. | PART NO. | DESCRIPTION                                                                          | REQ'D |
|------|----------|--------------------------------------------------------------------------------------|-------|
| 1    | C34747   | DECAL - instrument panel .....                                                       | 1     |
| 2    | C47606   | DECAL - "7020" .....                                                                 | 2     |
| 3    | C46326   | DECAL - "Warning" .....                                                              | 1     |
| 4    | C14539   | DECAL - oil, hydraulic reservoir .....                                               | 1     |
| 5    | C14066   | DECAL - gasoline .....                                                               | 1     |
| 6    | C47937   | DECAL - "FWD" switch (current production) (switch with separate warning light) ..... | 1     |
| 7    | C34775   | DECAL - travel control .....                                                         | 1     |
| 8    | C47147   | DECAL - range selector .....                                                         | 1     |
| 9    | C46958   | DECAL - "Important" hose routing (7020BH) .....                                      | 1     |
| 10   | C34750   | DECAL - fuse .....                                                                   | 1     |
| 11   | C34769   | DECAL - "INGERSOLL" loader arms and backhoe .....                                    | UAR   |
| 11   | C32093   | DECAL - "INGERSOLL" front skid pan and back of seat .....                            | 2     |
| 12   | C34749   | DECAL - ignition switch .....                                                        | 1     |
| 13   | C34777   | DECAL - fuel .....                                                                   | 1     |
| 14   | C34772   | DECAL - stripe (red and black) (7020BH) .....                                        | 4     |
| 14   | C34773   | DECAL - stripe (silver and black) (7020) .....                                       | 2     |
| 15   | C34184   | DECAL - flag .....                                                                   | 1     |
| 16   | NSS*     | DECAL - "FWD" use with illuminated switch (early production) .....                   | 1     |
| 17   | C37197   | DECAL - steering wheel center .....                                                  | 1     |
| 18   | C47757   | DECAL - FWD .....                                                                    | 2     |

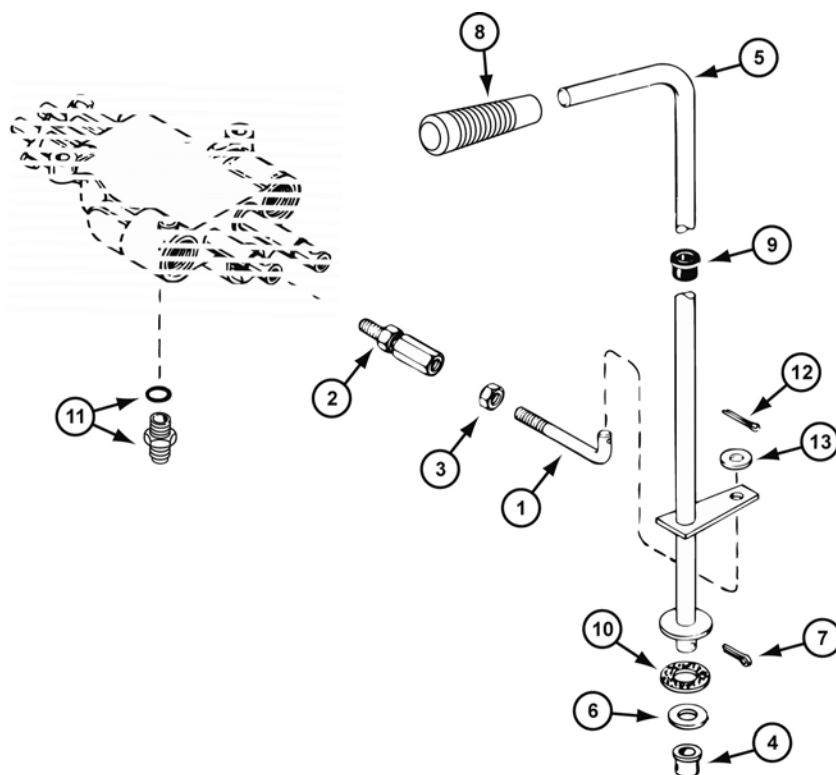
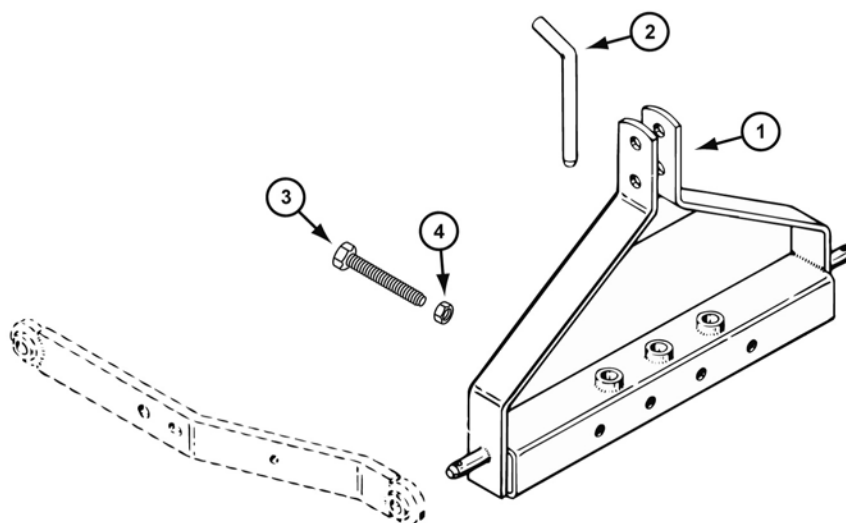
\* Use C47937 decal and modify to fit.

# BACKHOE MOUNTING COMPONENTS (7020BH)



**INDEX****BACKHOE MOUNTING COMPONENTS (7020BH)**

| REF. | PART NO. | DESCRIPTION                            | REQ'D |
|------|----------|----------------------------------------|-------|
| 1    | 113-705  | BOLT - 3/4" - 10 x 2-1/2" .....        | UAR   |
| 1    | 113-730  | BOLT - 3/4" - 10 x 2-3/4" .....        | UAR   |
| 2    | C46983   | SHIELD - hose .....                    | 1     |
| 3    | 131-C3   | NUT - 3/4" - 10 lock .....             | 10    |
| 4    | C32077   | ARM - lower R.H. (shown) .....         | 1     |
| 4    | C33164   | ARM - lower L.H. ....                  | 1     |
| 5    | C32079   | ARM - upper .....                      | 2     |
| 6    | 113-103  | BOLT - 5/16" - 18 x 1" .....           | 2     |
| 7    | C11906   | WASHER - 3/4" .....                    | 6     |
| 8    | 131-911  | NUT - 5/16" - 18 flange lock .....     | 2     |
| 9    | C32081   | PLATE - rear .....                     | 1     |
| 10   | C33270   | BOLT - 1/2" - 13 x 1-1/2" flange ..... | 4     |
| 11   | C46965   | BRACKET - mounting L. H. ....          | 1     |
| 11   | C46966   | BRACKET - mounting (shown) R. H. ....  | 1     |

**INDEX****HYDRAULIC LIFT CONTROL (7020)****INDEX****MODEL F27 HITCH ADAPTER**

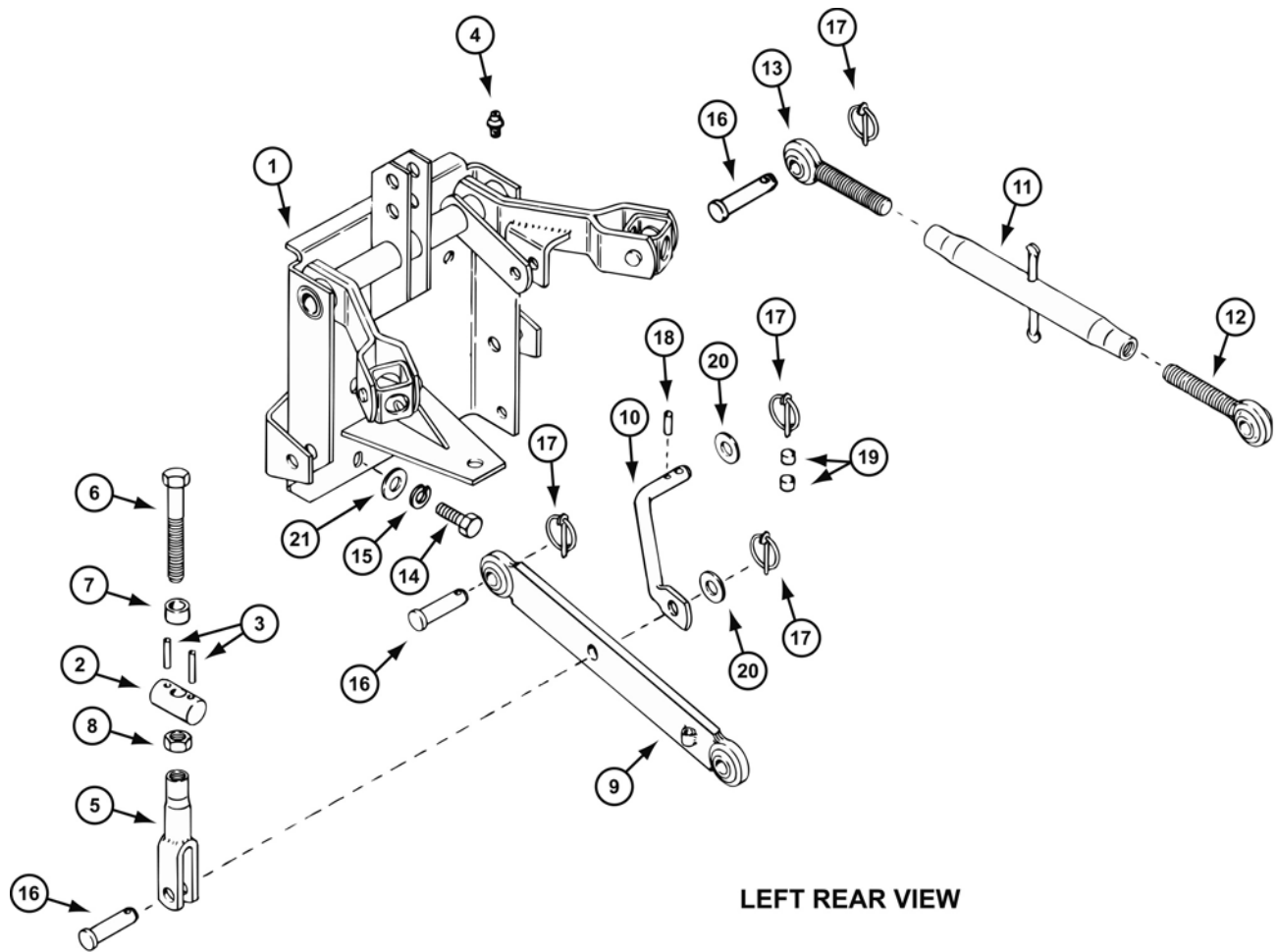
**INDEX****HYDRAULIC LIFT CONTROL (7020)**

| REF. | PART NO. | DESCRIPTION                            | REQ'D |
|------|----------|----------------------------------------|-------|
| 1    | C19384   | ROD - lift control .....               | 1     |
| 2    | C19025   | BALLJOINT .....                        | 1     |
| 3    | 129-122  | NUT - 5/16" NF hex .....               | 1     |
| 4    | C26266   | BUSHING - nylon .....                  | 1     |
| 5    | C46498   | LEVER - lift control .....             | 1     |
| 6    | 195-533  | WASHER - 5/8" .....                    | 1     |
| 7    | 132-310  | PIN - cotter 1/8" x 1" .....           | 1     |
| 8    | C46481   | GRIP - lift lever .....                | 1     |
| 9    | 353-442  | BUSHING - lever .....                  | 1     |
| 10   | C17551   | DISC - friction .....                  | 1     |
| 11   | 218-5056 | FITTING - 5/16" tube x 1/2" - 20 ..... | 2     |
| 12   | 132-320  | PIN - cotter 3/32" x 3/4" .....        | 1     |
| 13   | 195-518  | WASHER - 1/4" .....                    | 1     |

**INDEX****MODEL F27 HITCH ADAPTER**

|   |         |                                                         |   |
|---|---------|---------------------------------------------------------|---|
| 1 | NSS     | BRACKET - hitch adapter (order as machinery item) ..... | 1 |
| 2 | C14568  | PIN - drawbar .....                                     | 1 |
| 3 | 22-844  | BOLT - 1/2" x 2-3/4" NC hex .....                       | 2 |
| 4 | 129-105 | NUT - 1/2" - 13 .....                                   | 2 |

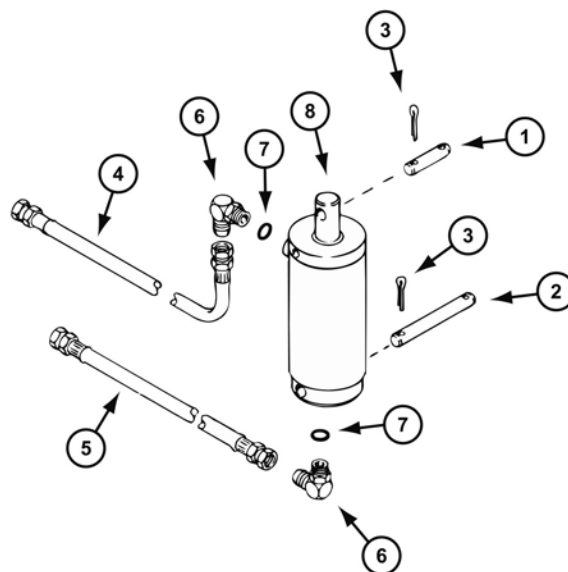
# THREE POINT HITCH



LEFT REAR VIEW

## THREE POINT HITCH CYLINDER

LEFT REAR VIEW



**INDEX****THREE POINT HITCH**

| REF. | PART NO. | DESCRIPTION                       | REQ'D |
|------|----------|-----------------------------------|-------|
| 1    | C46350   | PLATE - hitch .....               | 1     |
| 2    | C44058   | SWIVEL - lift link .....          | 2     |
| 3    | C32231   | PIN - spirol 3/16" x 1-1/2" ..... | 4     |
| 4    | 219-403  | FITTING - grease .....            | 2     |
| 5    | C32428   | LINK - adjusting .....            | 2     |
| 6    | C32235   | BOLT - 5/8" - 11 x 5" .....       | 2     |
| 7    | C32239   | SPACER - bolt .....               | 2     |
| 8    | 129-107  | NUT - 5/8" - 11 .....             | 2     |
| 9    | C32240   | ARM - lift .....                  | 2     |
| 10   | C32242   | ARM - stabilizer .....            | 1     |
| 11   | C32249   | TUBE - upper link .....           | 1     |
| 12   | C32426   | BALLJOINT - R.H. thread .....     | 1     |
| 13   | C32427   | BALLJOINT - L.H. thread .....     | 1     |
| 14   | 113-417  | BOLT - 1/2" - 13 x 1-1/4" .....   | 2     |
| 14   | 113-424  | BOLT - 1/2" - 13 x 1" .....       | 2     |
| 15   | 192-23   | LOCKWASHER - 1/2" .....           | 2     |
| 16   | C14717   | PIN - clevis 5/8" x 2-1/2" .....  | 6     |
| 17   | C28222   | PIN - klick .....                 | 9     |
| 18   | 138-2073 | PIN - spirol 3/16" x 1-1/4" ..... | 1     |
| 19   | C14768   | SPACER - klick pin .....          | 2     |
| 20   | 195-541  | WASHER - 5/8" .....               | 2     |
| 21   | 195-533  | WASHER - 1/2" .....               | 2     |

**INDEX****THREE POINT HITCH CYLINDER**

|   |          |                                                                    |   |
|---|----------|--------------------------------------------------------------------|---|
| 1 | C29693   | PIN - cylinder rod 1/2" x 1-3/4" .....                             | 1 |
| 2 | C32254   | PIN - cylinder foot 1/2" x 4-5/8" .....                            | 1 |
| 3 | 132-310  | PIN - cotter 1/8" x 1" .....                                       | 4 |
| 4 | C32247   | HOSE - hydraulic 1/4" x 33" (cylinder to forward valve port) ..... | 1 |
| 5 | C32246   | HOSE - hydraulic 1/4" x 24" (cylinder to rear valve port) .....    | 1 |
| 6 | 218-5104 | FITTING - 90° elbow 5/16" tube x 1/2" - 20.....                    | 2 |
| 7 | 218-5004 | "O" RING .....                                                     | 1 |
| 8 | C32245   | CYLINDER - lift .....                                              | 1 |
|   | C34533   | KIT - seal .....                                                   | 1 |