Broce Broom

PARTS MANUAL

MODELS
RJ-350 * CR-350
KR-350 * RC-350
RCT-350

Serial Numbers
404562 thru 404986

Revision Date: 01-01-04

THE LEADER

Broce Manufacturing Company
1460 SOUTH SECOND AVENUE • DODGE CITY, KS 67801 U.S.A.
(620) 227-8811 Fax (620) 227-3012
www.brocebroom.com
Broce Manufacturing Company, Inc.
WARRANTY REGISTRATION

Purchased From (Dealership)

Company: ___________________________________________________
Address:  ___________________________________________________
City:  _________________________ State: ____ ZIP: __________
Delivery Date to Dealer: ___ / ___ / ___ Unit Hours: ________________
Model Number: __________                        Serial Number: __________

Purchaser

Company: ___________________________________________________
Address:  ___________________________________________________
City:  _________________________ State: ____ ZIP: __________
Delivery Date to Owner: ___ / ___ / ___ Unit Hours: ________________

Purchaser - Type of Business

<table>
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<th>Construction/Highway</th>
<th>Rental</th>
<th>Asphalt Contractor</th>
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<td>Equipment Dealer</td>
<td>Municipality</td>
<td>Other</td>
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1. The Purchaser has been instructed and/or has read the manual and understands proper preventive maintenance, operation and safety precautions.

2. The Warranty and Limitations of Liability are found in the Warranty pages enclosed in the Parts and Operators Manuals.

3. Broce Manufacturing Co. Inc. reserves the right to make design changes or modifications to Broce products at any time without incurring any obligation to make similar changes or modifications to previously sold units.

4. If this Document is not signed and returned to Broce Manufacturing Co. Inc., the warranty begins at the date of delivery to the Dealership.

I hereby acknowledge acceptance of above and conditions in the Warranty Policy

Purchaser/Owner: _________________________________________________________
Dealer Representative: _____________________________________________________

Broce Manufacturing Co. Inc.
1460 South 2nd Avenue
Dodge City, KS 67801
(877) 227-8811
BROCE MANUFACTURING COMPANY

BROCE BROOM LIMITED TWELVE MONTH WARRANTY

For a period of twelve (12) months or 1,000 hours whichever comes first, from the date of delivery of product to the original user, Broce Manufacturing of Dodge City, Kansas warrants each product to be free from manufacturing defects, subject to the limitations contained in this policy. This limited warranty covers parts and labor.

This warranty does not apply to defect caused, in whole or in part, by unreasonable use while in the possession of the user, including, but not limited to, failure to properly set up product, failure to provide reasonable and necessary maintenance, normal wear, routine tune ups or adjustments, improper handling, accidents, operation at speed or load conditions contrary to published specifications, improper or insufficient lubrication, or improper storage. This warranty is not a guarantee that the performance of each product will meet the expectations of the purchaser.

Broce Manufacturing shall not be liable for consequential damage of any kind, including, but not limited to: consequential labor costs or transportation charges in connection with the replacement or repair of defective parts, lost time or expense which may have accrued because of said defects. In no event shall Broce Manufacturing’s total liability hereunder exceed the product purchase price.

Many components used by Broce Manufacturing are subject to the warranties of their respective manufacturers. These warranties will be considered void if the product is modified or repaired in any way not expressly authorized, or if closed components are disassembled prior to return. Closed components include, but are not limited to gearboxes, hydraulic pumps, motors, cylinders and actuators.

Our obligation under the warranty is expressly limited, at our option, to the replacement or repair at Broce Manufacturing of Dodge City, KS or at a service facility designated by us. We are not responsible for unauthorized repairs or replacements. Any implied or statutory warranties, including any warranty of merchantability or fitness for a particular purpose, are expressly limited to duration of this written warranty. We make no other express warranty. This warranty cannot be extended, broadened, or changed except in writing by an authorized officer of Broce Manufacturing.

Broce Manufacturing Co. Inc.
1460 South 2nd Avenue
Dodge City, KS 67801
(877) 227-8811
BROCE BROOM MODEL 350

ESTIMATED DIMENSIONS
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## SEAT AND SUSPENSION COMPONENTS

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## HYDROSTATIC CONTROL ASSEMBLIES

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CIRCLE FRAME & COMPONENTS
# CIRCLE FRAME & COMPONENTS

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# BROOM CORE WAFER & SPACERS

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<td>10” x 32” Poly Wafer</td>
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<td>10” x 32” Wire Wafer</td>
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<td>RW-500</td>
<td>8’ Set, Poly Wafers w/Spacers</td>
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<td>RW-502</td>
<td>8’ Set, ½ Poly, ½ Wire w/Spacers</td>
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<td>4</td>
<td>CS-01</td>
<td>Core Service Stand</td>
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<td>CS-02</td>
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<td>304289</td>
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<td>Strip Brush Poly Brush (8’ Set – 2 req’d)</td>
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BOLSTER ASSEMBLY

1

2

3

4

5

6

7

8
## BOLSTER ASSEMBLY

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4W BROOM FRONT AXLE ASSEMBLY

1
22
2
19
21

10
7b
6
7a
9
8
3

5
12
13
14
17
15
16
18

11

20
# 4W Broom Front Axle Assembly

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<td>BF4470</td>
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<td>BF4471</td>
<td>Jam Nut, LH Thread</td>
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<td>Tie Rod End, RH Thread</td>
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<td>Lock Nut</td>
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<td>BF4460</td>
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<td>Hub Assembly, (6 Lug x 5 1/2)</td>
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### 5200-6000 LB FRONT BRAKE ASSEMBLY

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<td>1/4” – 28 Brass Bleed Screw</td>
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<td>1/8” Brass Bleed Screw Adapter</td>
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<td>Guide Bolt Rubber Sleeve</td>
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<td>90° 1/8” NPT to 3/16” F.I.F.</td>
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Not Shown: Brake Hose for 5 or 6 wheel studs.
REAR AXLE & DRIVE ASSEMBLIES
# REAR AXLE & DRIVE ASSEMBLIES

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REAR BRAKE ASSEMBLY
## REAR BRAKE ASSEMBLY

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<td>Brake Drum (5 Lug)</td>
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<tr>
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<td>403082</td>
<td>Brake Drum (6 Lug)</td>
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<td>Wheel Cylinder Repair Kit</td>
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<td>4409</td>
<td>Kit (Contains Ref 4, 5, 13, 14, 15, 16, 17, 20)</td>
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<td>4400AL</td>
<td>Complete Assembly, (Left)</td>
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<tr>
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<td>4400AR</td>
<td>Complete Assembly, (Right)</td>
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TS-302-C TWO SPEED GEARBOX
## TS-302-C TWO SPEED GEARBOX

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
<td>2S-11A</td>
<td>Main Housing</td>
<td>1</td>
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<tr>
<td>2</td>
<td>2S-12</td>
<td>Housing Cover</td>
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<td>3</td>
<td>2S-13</td>
<td>Bearing Cap</td>
<td>1</td>
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<td>4</td>
<td>2S-14</td>
<td>Bearing &amp; Seal Cap</td>
<td>1</td>
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<td>5</td>
<td>2S-15</td>
<td>Vent Plug</td>
<td>1</td>
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<td>6</td>
<td>2S-16</td>
<td>Bearing Assembly</td>
<td>1</td>
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<td>7</td>
<td>2S-17</td>
<td>Pinion Gear w/ Key</td>
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<td>8</td>
<td>2S-18</td>
<td>Input Shaft</td>
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<td>9</td>
<td>2S-19</td>
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<td>3</td>
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<td>10</td>
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<td>Seal, Shift Rail</td>
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<td>13</td>
<td>2S-23</td>
<td>Gear, High Range</td>
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<td>2S-24</td>
<td>Sliding Collar</td>
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<td>Gear, Low Range</td>
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<td>16</td>
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<td>Output Shaft</td>
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<td>17</td>
<td>2S-27</td>
<td>Seal, Output Shaft</td>
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<td>18</td>
<td>2S-28</td>
<td>Output Flange</td>
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<td>Jam Nut</td>
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<td>20</td>
<td>2S-30</td>
<td>Detent Kit</td>
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<td>Not Shown</td>
<td>2S-31</td>
<td>Shim Kit</td>
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## MODEL 44 INDUSTRIAL AXLE

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<td>459109 C94</td>
<td>Axle Housing</td>
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<tr>
<td>2*</td>
<td>NSS</td>
<td>Gear &amp; Pinion Set</td>
<td>1</td>
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<tr>
<td>3*</td>
<td>706031X</td>
<td>Inner Pinion Bearing</td>
<td>1</td>
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<tr>
<td>4*</td>
<td>NSS</td>
<td>Shim – Drive Pinion</td>
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<td>5*</td>
<td>30765</td>
<td>Baffle – Pinion Bearing</td>
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<tr>
<td>6*</td>
<td>NSS</td>
<td>Shim – Pinion Bearing</td>
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<td>706030X</td>
<td>Outer Pinion Bearing</td>
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<td>30784</td>
<td>Slinger</td>
<td>1</td>
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<td>9*</td>
<td>35723</td>
<td>Pinion Seal</td>
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<td>3-4-5761X</td>
<td>End Yoke Assembly</td>
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<td>11*</td>
<td>30186</td>
<td>Washer – Pinion Nut</td>
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<td>30185</td>
<td>Pinion Nut</td>
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<td>Cover – Carrier</td>
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<td>Gasket – Carrier Cover</td>
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<td>36472</td>
<td>Plug – Cover</td>
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<td>Bolt – Cover (source locally)</td>
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<td>NSS</td>
<td>Cap – Differ Bearing</td>
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<td>Bolt – Differ Bearing Cap</td>
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<td>706032XA</td>
<td>Differ Bearing Kit</td>
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<td>NSS</td>
<td>Shim – Differ Bearing</td>
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<td>21</td>
<td>32684</td>
<td>Differ Case</td>
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<td>22</td>
<td>30187</td>
<td>Bolt – Drive Gear</td>
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<td>23**</td>
<td>NSS</td>
<td>Pinion – Differ</td>
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<td>24**</td>
<td>NSS</td>
<td>Differ – Gear</td>
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<td>25**</td>
<td>NSS</td>
<td>Thrust Washer – Differ Pinion</td>
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<td>26**</td>
<td>NSS</td>
<td>Thrust Washer – Differ Gear</td>
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<td>27**</td>
<td>NSS</td>
<td>Differ Shaft</td>
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<tr>
<td>28**</td>
<td>NSS</td>
<td>Lock – Differ Shaft</td>
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<td>29**</td>
<td>34616-1</td>
<td>Bolt – Brake Mounting</td>
<td>8</td>
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<td>30</td>
<td>35704</td>
<td>Nut – Brake Mounting</td>
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<td>31</td>
<td>34419</td>
<td>Seal – Shaft Inboard</td>
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<td>32</td>
<td>36797</td>
<td>Retaining Ring – Wheel Bearing</td>
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<td>33***</td>
<td>565903</td>
<td>Bearing Assembly</td>
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<td>34***</td>
<td>35239</td>
<td>Seal – Shaft Outboard</td>
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<tr>
<td>35***</td>
<td>35490A</td>
<td>Retainer – Oil Seal</td>
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<td>36***</td>
<td>26726A</td>
<td>Shaft – Axle Flange (5 Lug)</td>
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<tr>
<td>37***</td>
<td>403081</td>
<td>Shaft – Axle Flange (6 Lug)</td>
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<tr>
<td>38</td>
<td>35491A</td>
<td>Bolt – Wheel</td>
<td>5 or 6</td>
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</table>

* Included in Kit Number 7066139X

** Included in Kit Number 706027X

*** Included in Kit Number 26726A

*** Included in Kit Number 403081

NSS – Not Sold Separately
### TOW BAR ASSEMBLIES

<table>
<thead>
<tr>
<th>Reference</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>4201P</td>
<td>Tow Bar w/ 3” Pintle</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>4201B</td>
<td>Tow Bar w/ 2 5/16” Receiver</td>
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<tr>
<td>2</td>
<td>K00003</td>
<td>Hitch, Shutoff Assembly Kit (Valve, Hoses, and Fittings)</td>
<td>1</td>
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<tr>
<td>3</td>
<td>305025</td>
<td>Tow Valve</td>
<td>1</td>
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</table>

Note: Tow bars come as complete kit. Kit includes Mounts, Chains, and Pin. Hitch Shutoff Assembly is separate. The Hitch Shutoff is for a safer and easier way of towing the broom. All Broce Brooms are towable as long as the Gearbox is in neutral, the Parking Brake is released, and the Shutoff Valve is engaged.
CAB ASSEMBLY

View from inside of left door
### CAB ASSEMBLY

<table>
<thead>
<tr>
<th>Reference</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>P-315-B</td>
<td>Cab Assembly, Complete</td>
<td>1</td>
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<tr>
<td></td>
<td>P-344-K</td>
<td>Cab Keys, (Sold as a Pair)</td>
<td>1</td>
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<tr>
<td>2</td>
<td>202116</td>
<td>Mirror Bracket, (2 per Side)</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>P-353-R</td>
<td>West Coast Style Mirror (1 per Side)</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>P-352-B</td>
<td>Strut, (1 per Side)</td>
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<tr>
<td>5</td>
<td>P-352-BA</td>
<td>Ball &amp; Socket Assembly</td>
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<tr>
<td>6</td>
<td>P-344-R</td>
<td>Outside Door Handle</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>P-320-B</td>
<td>Striker Assembly</td>
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<td>8</td>
<td>P-342-BL</td>
<td>Latch Assembly, LH</td>
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<td>P-342-BR</td>
<td>Latch Assembly, RH</td>
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<tr>
<td>9</td>
<td>P-354-B</td>
<td>Inside Door Handle</td>
<td>2</td>
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<tr>
<td>10</td>
<td>304082</td>
<td>Door Seal, 14' per door</td>
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<tr>
<td>11</td>
<td>P-321-R</td>
<td>Offset Rubber Molding, (As Required)</td>
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<tr>
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<td>P-316-R</td>
<td>Floor Mat, 5’ x 4’ Blank</td>
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<td>12</td>
<td>K00002</td>
<td>Door Tether Strap, Inside (1 per Side)</td>
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<td>Not Shown</td>
<td>AC-708-R</td>
<td>Air Cleaner Assembly</td>
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<td>Not Shown</td>
<td>AC-785-R</td>
<td>Air Cleaner Bonnet (Top Cap)</td>
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<td>P10-3113</td>
<td>Air Cleaner End Cap</td>
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<td>Not Shown</td>
<td>P00-3951</td>
<td>Air Cleaner Clamp</td>
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<td>Not Shown</td>
<td>110-20027</td>
<td>Air Cleaner Flex Hose</td>
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<td>Not Shown</td>
<td>P10-2114</td>
<td>Air Cleaner Vent</td>
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<tr>
<td>Not Shown</td>
<td>AC-709-R</td>
<td>Air Cleaner Filter</td>
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</table>

**Note:** Items 10 & 11 are sold by the foot. Floor mat is a “Cut to Fit” item.
ROLL OVER PROTECTION
STRUCTURE & RELATED PARTS
## ROLL OVER PROTECTION
### STRUCTURE & RELATED PARTS

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>P-310-R</td>
<td>Two-Post Roll Bar</td>
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<td>852057</td>
<td>Canopy</td>
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<tr>
<td>3</td>
<td>See Seat &amp;</td>
<td>Seat Belt w/ Shoulder Harness (Optional).... 1</td>
<td>Suspension</td>
</tr>
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<td>4</td>
<td>See Seat &amp;</td>
<td>Retractable Seat Belt (Standard)........................................ 1</td>
<td>Suspension</td>
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<tr>
<td>5</td>
<td>C-211-RT</td>
<td>Tether Strap Set (For use w/ Suspension Seat).................................... 1</td>
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<tr>
<td>6</td>
<td>P-312-R</td>
<td>Windshield Frame w/ Molding (Safety Glass Not Included. See Note)........... 1</td>
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<tr>
<td>7</td>
<td>P-356-R</td>
<td>Rear View Mirror</td>
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<td>P-325-R</td>
<td>Offset Rubber Molding</td>
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<tr>
<td>9</td>
<td>P-355-R</td>
<td>Rubber Trim</td>
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### Note:
1. Due to the abundant availability of automotive safety glass from local vendors and the likelihood of breakage during shipment, the windshield frame is sold w/o glass.
2. Seat belt tether straps MUST be used on suspension seats.
3. Items 8 & 9 are sold by the foot.
FUEL TANK ASSEMBLY
<table>
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<td>852454</td>
<td>Fuel &amp; Hydraulic Tank</td>
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<td>2</td>
<td>T-703-BA</td>
<td>Hydraulic Cap</td>
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<td>3</td>
<td>T-702-B</td>
<td>Fuel Cap</td>
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<td>T-805-R</td>
<td>Rubber Tank Pad</td>
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<td>5</td>
<td>550-5</td>
<td>Sight Glass</td>
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<td>6</td>
<td>344175</td>
<td>Fuel Gauge Assembly</td>
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## DECAL KIT

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<td>VL-833-R</td>
<td>Decal Kit w/ Stripes and Broce Logos*</td>
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4W BROOM HYDRAULIC SYSTEM DETAILS
## 4W BROOM HYDRAULIC SYSTEM COMPONENTS

**SERIAL NUMBER 404001+**

(Front Section)

<table>
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<td>203526</td>
<td>Steering Cylinder, 10&quot;</td>
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<td>208</td>
<td>Lift Cylinder</td>
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<td>305943</td>
<td>Core Motor, Direct Drive</td>
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<td>305972</td>
<td>Seal Kit for Direct Drive Core Motor</td>
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<td>MAB-16-B</td>
<td>Core Motor, Chain Drive</td>
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<td>SK000092</td>
<td>Seal Kit, Chain Drive Motor</td>
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<td>305944</td>
<td>Steering unit</td>
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<td>305525</td>
<td>Hydraulic Manifold</td>
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<td>HF-278-R</td>
<td>Filter Element</td>
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<td>HF-278-RAF25</td>
<td>Filter Assembly</td>
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<td>Shift Cylinder</td>
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<td>Hydraulic Fitting, FF1852T06-06</td>
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<td>Hydraulic Hose Assembly, 30&quot;-1AA6FR6 &amp; 1AA6FRB6</td>
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<td>Hydraulic Hose Assembly, 32&quot;-1AA4FRB4 &amp; 1AA4FRC4</td>
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<td>15</td>
<td>305818</td>
<td>Hydraulic Fitting, FF1852T04-06</td>
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<td>16</td>
<td>305871</td>
<td>Hydraulic Fitting, FF1852T12-10</td>
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<td>Hydraulic Hose Assembly, 94.5&quot;-1AA12FR12 (2)</td>
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<td>18</td>
<td>N/A</td>
<td>Hydraulic Hose Assembly, 94.5&quot;-1AA12FR12 (2)</td>
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<tr>
<td>19</td>
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<td>Hydraulic Fitting, Caterpillar 3E-7420</td>
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Not Shown ....RC-19 .......... Clevis Pin (Shift Cylinder) ............................................... 2
Not Shown ....D-21-R .......... Shock Pin (Lift Cylinder) .................................................. 2
Not Shown ....IC-4244 .......... Seal Kit, Replaces P/N RC-20 ............................................... 1
Not Shown ....203553 .......... Seal Kit – Steering Cylinder ............................................... 1

Note: If Steering Cylinder Rod becomes damaged or broken, it is not economically feasible to replace. Therefore the entire cylinder must be replaced.

Revision: 02/04/04
4W BROOM HYDRAULIC SYSTEM COMPONENTS
SERIAL NUMBER 404001+
(Cab-Valve Section)

<table>
<thead>
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Revision: 02/04/04
4W BROOM HYDRAULIC SYSTEM COMPONENTS

VARIABLE SPEED OPTION
(Cab-Valve Section)
# 4W BROOM HYDRAULIC SYSTEM COMPONENTS

## VARIABLE SPEED OPTION
(Cab-Valve Section)

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<td>Rotation Valve, Variable Speed, Complete</td>
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<td>30a</td>
<td>355003</td>
<td>Rotation Valve, Variable Speed, Block Only</td>
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<td>30b</td>
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<td>Rotation Valve, Variable Speed, Cartridge</td>
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<td>30c</td>
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<td>30d</td>
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**Note:** Item #30 Replaces Rotation Valve on standard broom and is located under cab. Hydraulic Hose Items #38, #42, and #46 replace Items #19, #38, and #72 of standard broom hydraulic illustrations shown in this section.
# 4W BROOM HYDRAULIC SYSTEM COMPONENTS
## SERIAL NUMBER 404001+
### (Rear Section)

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# HYDROSTATIC DRIVE SYSTEM

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<td>305996</td>
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<td>305999</td>
<td>Hydraulic Pump for Machines with Gutter Brooms</td>
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Note: Rebuilt Components Subject to Availability.
305901 ROTATION VALVE ASSEMBLY
### 305901 ROTATION VALVE ASSEMBLY

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<td>305961</td>
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<td>305052</td>
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305900 VALVE ASSEMBLY
## 305900 VALVE ASSEMBLY

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ELECTRICAL SYSTEM AND ACCESSORIES
# GAUGES AND SENDERS

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<td>I-221-R</td>
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<td>I-223-R</td>
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<td>I-220-V</td>
<td>Voltmeter</td>
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<td>I-219-R</td>
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<tr>
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<td>IS-221-WC</td>
<td>Pressure Sender w/ Contact</td>
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<td>Note: Use w/ warning or shutdown system</td>
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<td>Hydraulic Temperature Gauge</td>
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<td>Note: Mechanical 12' Capillary</td>
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<td>I-224-R35</td>
<td>Fuel Sender (35 gal. Tank)</td>
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## WINDSHIELD WIPERS & WASHER

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<td>1-182-54MO</td>
<td>Wiper Motor</td>
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<td>LE581022-1</td>
<td>Drive Arm</td>
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<td>3.</td>
<td>2-615-2218</td>
<td>18” Blade (Canopy Windshield)</td>
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<td>2-615-2214</td>
<td>14” Blade (Rear)</td>
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<td>1-182-54</td>
<td>Wiper Kit – Canopy Windshield</td>
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<td>1-182-54R</td>
<td>Rear Wiper Kit (Includes Motor, Blade, and Arm)</td>
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<td>2-615-15</td>
<td>Wiper Motor</td>
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<td>BK721005</td>
<td>Wiper Motor Mount</td>
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<td>2-615-19</td>
<td>Wiper Drive Arm (Tapered Motor Shaft)</td>
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<td>2-615-60</td>
<td>Wiper Shaft &amp; Arm Assembly</td>
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<td>2-615-17</td>
<td>Pantograph Adapter &amp; Gasket</td>
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<td>Link &amp; Bolt Kit (Includes Bolts, Washers, &amp; Clips to Mount Motor)</td>
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<td>Washer Pump &amp; Reservoir</td>
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<td>Washer Kit (Includes Tubing &amp; Hardware for New Installation)</td>
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MISC. SWITCHES, FUSES, ETC.
### MISC. SWITCHES, FUSES, ETC.

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<td>Warning Light</td>
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<td>46330</td>
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<td>Air Restrictor Sender (Air Cleaner Ind.)</td>
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<td>BLS-15</td>
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<td>Push Button Switch for Preheat (All Same)...</td>
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LIGHTS – HORNS

1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.  
9.  
10.  
11.  
12.  
13.  
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<td>Driving Light</td>
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<td>4-75001</td>
<td>Turn Signal</td>
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<td>6-70001</td>
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<td>550</td>
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<td>LG-100-SBA</td>
<td>Light Group Kit w/950004-SBA Driving Lights</td>
<td>See Note</td>
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<td>Amber Beacon</td>
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<td>Flush Mount Tail/Brake Lights (Starting w/ Serial Number 90044)</td>
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**Note:** Light Group Kit, Part Number LG-100-SBA, contains all signals, switches, lights, and wiring harness required for field installation.
4W BROOM HEATER/DEFROSTER
# 4W Broom Heater/Defroster

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<td>403154</td>
<td>Coil</td>
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<td>403155</td>
<td>Case, Top/Side</td>
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<td>4</td>
<td>403156</td>
<td>Panel, Blower</td>
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<td>403157</td>
<td>Resistor, 3 – Speed</td>
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<td>6</td>
<td>403158</td>
<td>Housing, Blower</td>
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<td>7</td>
<td>403159</td>
<td>Motor, CCW</td>
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<td>403160</td>
<td>Wheel, Blower</td>
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<td>403161</td>
<td>Ring, Venturi</td>
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<td>Hose, Vent Motor Blower</td>
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<td>Plenum, Heater</td>
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<td>403164</td>
<td>Louver, 3&quot; Round</td>
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<td>403165</td>
<td>Plenum, Defrost</td>
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<td>Hose, Flex, Wire, Metal, 2.5&quot; Dia.</td>
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<td>Harness, Wire, Heater</td>
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<td>403168</td>
<td>Switch, Rot 4 Position</td>
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<td>Knob, Switch, Rotary</td>
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<td>Heater/Defroster Kit (Kubota KR-350)</td>
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4W BROOM AIR CONDITIONING SYSTEM

Features:

- 255 CFM
- Heavy Duty Powder Coated Finish all steel case.
- Low Profile for maximum headroom.
- Filtered, recirculated air.
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<tr>
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<td>403184</td>
<td>Cover, Evaporator</td>
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<td>403180</td>
<td>Blower Assembly</td>
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<td>403175</td>
<td>Coil, Evaporator</td>
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<td>4</td>
<td>403174</td>
<td>Valve, Exp., Block, R134a</td>
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<td>Housing, Evaporator</td>
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<td>403164</td>
<td>Louver, 3” Round</td>
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<td>403177</td>
<td>Knob, Fan</td>
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<td>Decal, Fan</td>
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<td>403173</td>
<td>Switch, Rotary</td>
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<td>403187</td>
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## 4W BROOM AIR CONDITIONING SYSTEM

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<td>403179</td>
<td>Wiring Harness</td>
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<td>Dryer Clamp</td>
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<td>403171</td>
<td>Receiver Dryer</td>
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<td>Condenser</td>
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BROOM ACCESSORIES SYSTEMS
4W BROOM WATER SYSTEM
## 4W BROOM WATER SYSTEM

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<td>Tank Adapter (1 1/4&quot; Dia.)</td>
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<td>Nozzle Screen</td>
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Note: Hydraulic Hoses and Aeroquip fittings not available through Broce Mfg. Parts Dept.- Source Locally
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* Note: Hydraulic Hoses and Aeroquip fittings not available through Broce Mfg. Parts Dept. - Source Locally
## CURB SWEEPER ASSEMBLY

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Note: Hydraulic Hoses and Aeroquip fittings not available through Broce Mfg. Parts Dept. - Source Locally
# CURB BROOM HYDRAULICS ASSEMBLY

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*Note: Hydraulic Hoses and Aeroquip fittings not available through Broce Mfg. Parts Dept.- Source Locally
ENGINES AND RELATED PARTS
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<td>Rubber Elbow (2.5” x 2”)</td>
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<tr>
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<td>304111</td>
<td>Reducer (2” x 1.75”)</td>
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<td>203345</td>
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<td>29.</td>
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<tr>
<td>30.</td>
<td>P182059</td>
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<tr>
<td>31.</td>
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<tr>
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<td>34.</td>
<td>JR-724-G</td>
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<tr>
<td>36.</td>
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<td>37.</td>
<td>TT-771-R</td>
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<td>38.</td>
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<td>40.</td>
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<td>41.</td>
<td>852136</td>
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<tr>
<td>42.</td>
<td>203132</td>
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<tr>
<td>43.</td>
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<td>Bottom Radiator Support</td>
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<tr>
<td>44.</td>
<td>304096</td>
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<tr>
<td>45.</td>
<td>344121</td>
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<td>Right Side Oil Cooler Sleeve</td>
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<td>Kubota Fan</td>
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<td>Fan Spacer</td>
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<td>DESCRIPTION</td>
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<td>5</td>
<td>203601</td>
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<td>6</td>
<td>852042</td>
<td>Right Rear Motor Mount</td>
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<td>7</td>
<td>852043</td>
<td>Left Rear Motor Mount</td>
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<td>8</td>
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<td>Left Side Oil Cooler Seal</td>
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<td>15</td>
<td>203189</td>
<td>Upper Seal (Rubber)</td>
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<td>Tail Pipe</td>
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<td>17</td>
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<td>21</td>
<td>344031</td>
<td>Exhaust Gasket</td>
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<td>22</td>
<td>203105</td>
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<td>23</td>
<td>AC-760-R</td>
<td>Rubber Elbow, 3” x 3”</td>
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<td>24</td>
<td>AC-760-B</td>
<td>Rubber Elbow, 3.5” x 3”</td>
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<td>25</td>
<td>304195</td>
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<td>26</td>
<td>202152</td>
<td>Connecting Tube, Short</td>
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<tr>
<td>26a</td>
<td>202153</td>
<td>Connecting Tube, Long</td>
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<td>28</td>
<td>P182059</td>
<td>Service Element</td>
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<td>29</td>
<td>P119410</td>
<td>Safety Element</td>
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<td>Precleaner, 4”</td>
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<td>PC-765-R</td>
<td>Precleaner, Top</td>
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<td>PC-711-R</td>
<td>Precleaner Bowl</td>
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<td>Engine Isolator Kit</td>
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<td>34</td>
<td>P003951</td>
<td>Clamp</td>
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</tr>
<tr>
<td>35</td>
<td>AC-764-R</td>
<td>Strap</td>
<td>2</td>
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<tr>
<td>36</td>
<td>TT-771-R</td>
<td>Turbo II Precleaner</td>
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<tr>
<td>37</td>
<td>P103113</td>
<td>Cup</td>
<td>1</td>
</tr>
<tr>
<td>38</td>
<td>P102980</td>
<td>Air Cleaner Baffle</td>
<td>1</td>
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<tr>
<td>39</td>
<td>344509</td>
<td>Radiator Cap</td>
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<td>NS</td>
<td>101-3770</td>
<td>CAT Fan</td>
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<td>NS</td>
<td>5M8155</td>
<td>Fan Belt</td>
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<tr>
<td>NS</td>
<td>304196</td>
<td>Compressor Belt, A/C Only</td>
<td>1</td>
</tr>
</tbody>
</table>
Preventative Maintenance

A well maintained A/C system would save on downtime and premature component failures.

Weekly inspections or every 2 days in severe environments should include:

1. Inspect compressor clutch drive belts (tightness, wear).
2. Inspect compressor-mounting brackets (bolts, alignment).
3. Inspect mounting hardware on evaporator unit and condensers.
4. Inspect air intake filter. Clean or replace filter.
5. Inspect evaporator and condenser coils. Clean using air pressure. (DO NOT USE WATER OR PRESSURE WASHERS).

Helpful Hints

Make sure the evaporator air intake area is not obstructed (i.e. toolboxes, clothing, lunch box, etc.)

Manual thermostats on our systems, when rotated clockwise to the stop position will not allow the A/C compressor clutch to cycle. The compressor will run continuously and the evaporator coil will not defrost. REMEDY: Turn the manual thermostat knob clockwise to the stop position, and then turn the thermostat knob back counter clockwise ¼ turn.

Broce thanks you for purchasing our units. It is our endeavor to provide you with a quality A/C unit with trouble free service.
## HYDRAULIC COMPONENT SPECIFICATIONS

### Propel Pump

- **Displacement at MAX Angle:** 46 cc (2.8 CU IN)
- **Rated Speed:** 4000 RPM
- **MAX Speed:** 4100 RPM
- **MIN Speed:** 500 RPM
- **Case Pressure – Continuous:** 1.7 BAR (25 PSI)
- **Case Pressure – MAX:** 5.2 BAR (75 PSI)
- **System Pressure – Continuous:** 210 BAR (3000 PSI)
- **System Pressure – MAX:** 345 BAR (5000 PSI)
- **Inlet Vacuum – Continuous:** .8 BAR Absolute (5 IN Hg)
- **Inlet Vacuum – MAX:** .7 BAR Absolute (10 IN Hg)
- **Charge Pressure Setting:** 19.5 BAR (283 PSI)
- **System Pressure Setting:** 280 BAR (4060 PSI)
- **Approximate Flow at 2400 RPM:** 26 GPM

### Propel Motor

- **Displacement:** 46 cc (2.8 CU IN)
- **Rated Speed:** 3600 RPM
- **MAX Speed:** 3600 RPM
- **Case Pressure – Continuous:** 1.7 BAR (25 PSI)
- **Case Pressure – MAX:** 5.2 BAR (75 PSI)
- **System Pressure – Continuous:** 210 BAR (3000 PSI)
- **System Pressure – MAX:** 345 BAR (5000 PSI)

### Auxiliary Pump

- **Displacement:** 38 cc (2.32 CU IN)
- **MAX Speed:** 2500 RPM
- **MAX Continuous Pressure:** 3000 PSI
- **Approximate Flow at 2400 RPM**
  - Priority (Steering and Broom): 3 GPM
  - Secondary (Broom Rotation): 18 GPM
- **MAX Pressure Setting (Priority):** 1600 PSI
- **MAX Pressure Setting * (Secondary):** 3000 PSI

*Relief Valve in the Broom Rotation Valve
## FLUID CAPACITIES

<table>
<thead>
<tr>
<th>Component</th>
<th>Fluid Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic Tank</td>
<td>DYNA-PLEX 21C CURSA HYDRAULIC OIL</td>
<td>27 Gal.</td>
</tr>
<tr>
<td></td>
<td>Must meet Caterpillar spec. T02 or Allison C3</td>
<td></td>
</tr>
<tr>
<td>Fuel</td>
<td>#2 DIESEL</td>
<td>27 Gal.</td>
</tr>
<tr>
<td>Radiator</td>
<td>ETHYLENE GLYCOL 50/50 MIX</td>
<td>2.5 Gal</td>
</tr>
<tr>
<td>Engine Crankcase</td>
<td>API Classification CE or CD</td>
<td>10 Qts</td>
</tr>
<tr>
<td></td>
<td>CCMC Specification D4 or D5</td>
<td></td>
</tr>
<tr>
<td>Rear Axle</td>
<td>EP-90 GEAR LUBE</td>
<td>2 Qts*</td>
</tr>
<tr>
<td>2-Speed G-Box</td>
<td>EP-90 GEAR LUBE</td>
<td>2 Qts*</td>
</tr>
</tbody>
</table>

* 2 Quarts is approximate. Fill to the level of the filler plug.
Dyna-Plex 21C Cursa Hydraulic Oils are high quality; extra-inhibited oils designed with hydrocrack Group II base oils, for use in multi-functional applications where long oil life is required. These oils will give you steady, reliable performance as a hydraulic medium.

Dyna-Plex 21C Cursa Hydraulic Oils have been finely filtered to remove external contamination and contain special O-Ring conditioners to prolong hydraulic component life. Seal swell agents have been added to prevent leaks and Cursa’s demulsability characteristics enhance separation and removal of water. These oils will supply 5000 hours of service before extreme oxidation problems occur and also provide excellent resistance to foaming, rust and wear.

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>ASTM TEST</th>
<th>METHOD</th>
<th>MULTI-FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity @ 40°C,CST</td>
<td>D445</td>
<td></td>
<td>46.00</td>
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<td>Viscosity @ 100°C,CST</td>
<td>D445</td>
<td></td>
<td>9.75</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>D2270</td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>Flash Point, COC, °C</td>
<td>D92</td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>Flash Point, COC, °F</td>
<td>D92</td>
<td></td>
<td>392</td>
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<tr>
<td>Pour Point, °C (°F)</td>
<td>D97</td>
<td></td>
<td>-36 (-33)</td>
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<tr>
<td>Color</td>
<td>D1500</td>
<td></td>
<td>Orange</td>
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<td>Gravity, °API</td>
<td>D287</td>
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<td>32.0</td>
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<tr>
<td>Turbine Oil Oxidation</td>
<td>D943</td>
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<td>5000+</td>
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<tr>
<td>Copper Strip</td>
<td>D130</td>
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<td>LB</td>
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<tr>
<td>Rust Test</td>
<td>D665</td>
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<td>Pass</td>
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<tr>
<td>Vane Pump, Mgs. Wt. Loss</td>
<td>D2882</td>
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<td>RBOT, Minutes</td>
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<td>Demulsibility</td>
<td>D1401</td>
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Meets or exceeds the following tests and requirements:

AFNOR E 48-603
B.F. Goodrich – 0152
Cincinnati Milacron – P-68 (light hydraulic oils), P-69, P-70
Denison – HF-0, HF-1, HF-2
DIN – 51524, Part 2
FMC – High-Performance Hydraulic Oil
Ford – M-6C32
General Motors – LH-04-1, LH-06-1, LH-15-1
Jeffrey - #87
Lee Norse 100-1
Racine – Model S, variable volume vane pump
U.S. Steel – 136, 127
Vickers – I-286-S, M-2950-S, 35VQ25

HO-11/4-14-00
DYNA-PLEX 21C EXTENDED DRAIN ANTI-FREEZE/ENGINE COOLANT

Dyna-Plex 21C Extended Drain Anti-Freeze/Engine Coolant is a premium quality ethylene glycol based product. It is pre-diluted to a 50/50 mixture with de-ionized water to provide excellent corrosion control and a deduction of scale buildup. The corrosion inhibitor package eliminates the need for an initial charge of supplemental coolant additive (SCA). The 50/50 dilution with de-ionized water insures high water quality and eliminates the chance for error when mixing anti-freeze with water in the field.

Dyna-Plex 21C Extended Drain Anti-Freeze gives the maximum protection and performance available for heavy-duty diesel applications, while eliminating potential water related problems. Advantages of this product include the highest quality inhibitor package available and its ready to use convenience.

Universal recommends good maintenance practices to monitor inhibitor levels on a regular basis by utilizing coolant analysis, which is an important aspect of extending the life of this coolant/anti-freeze. This product meets or exceeds manufacturer specifications for use in both heavy-duty diesel and automotive applications.

<table>
<thead>
<tr>
<th>Physical and Chemical Properties</th>
<th>ASTM Test Method</th>
<th>Test Specifications</th>
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<tbody>
<tr>
<td>Specific Gravity @ 60°F</td>
<td>D-1122</td>
<td>1.110 – 1.145</td>
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<tr>
<td>pH 50% Dilution</td>
<td>D-1287</td>
<td>10.0 – 10.4</td>
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<td>Reserve Alkalinity</td>
<td>D-1121</td>
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<tr>
<td>Boiling Point</td>
<td>D-1120</td>
<td>320°F min.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>D-92</td>
<td>240°F min.</td>
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<td>Freeze Point</td>
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<td>-34°F max.</td>
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<td>Color</td>
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<td>Foaming – Foam Volume, ml</td>
<td>D-1881</td>
<td>50 max.</td>
</tr>
<tr>
<td>Break Time, sec.</td>
<td>D-1881</td>
<td>5 max.</td>
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<td>Composition (% by weight)</td>
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<tr>
<td>Total Glycols</td>
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<tr>
<td>Total De-ionized Water</td>
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<tr>
<td>Inhibitors and Dye</td>
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<td>2.0% min.</td>
</tr>
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</table>

Dyna-Plex 21C Extended Drain Anti-Freeze/Engine Coolant meets or exceeds the following specifications:

- American Society for Testing and Materials (ASTM)- D-33-6; D-4985; D-4656
- General Motors – GM 1899M; GM 1825M
- Society for Automotive Engineers – SAE J1941, J1034
- Cummins – 85T8-2; 90T8-4; Bulletin #3666132
- Ford Motor Corporation – ESE M97B44A; ESE-M97B18-C
- Chrysler Motors - MS7170
- Detroit Diesel 7SE298
- John Deere H24A2; H24C2
- ATA Maintenance Council – RP-329

AF-1/9-12-01
Broce Broom Wiring Diagram
Dash Wiring Diagram
For Brooms with Variable Brush Speed

02-10-06
Broce Broom Wiring Diagram
Engine Control Panel - RCT Model With Cab

To: Fuel level element
PLUG: To: Neutral Safety Switch

To: Starter
To: Water Temp Element
To: Oil Pressure Element
To: Starter Solenoid
To: Alternator ON
To: Alternator (Tach. terminal)
To: Oil Pressure Switch
To: Backup Alarm

Harness

(Red 4 GA.)
To: Star
To: Star

To: Starter
To: Starter

To: Oil Pressure Element
To: Condensor
To: Evaporator
To: Evaporator

To: Dash Fuse Block
To: Starter Solenoid

100A Breaker

R1 R2 R3

75A Relay

F1 30 87 87 87
86 85 87

20A Terminal Strip

2A 34 5 6 7 8

87 87 87 86 86 85 85 85

20A 20A 20A

25A 20A 40A

F2 F3 F4

To: Oil Gauge
To: Ignition Switch
To: Tach. Gauge
To: Ignition Switch
To: Hour Meter
To: Oil Pressure Switch
To: Backup Alarm PLUG

To: Oil Pressure Element

(White 16 GA.)
(Black 16 GA.)
(Brown 16 GA.)
(Lt. Blue 16 GA.)

(Orange 16 GA.)
(Gray 16 GA.)
(Brown 16 GA.)
(White 16 GA.)

(Pink 16 GA.)
(White 16 GA.)

(Yellow 16 GA.)

(White 16 GA.)

(Orange 16 GA.)

(Red 16 GA.)

To: Ignition Switch
To: Ignition Switch
To: Ignition Switch
To: Ignition Switch
To: Ignition Switch
To: Hour Meter
To: Backup Alarm PLUG

To: Alternator (Tach. terminal)
To: Alternator ON

(Black 16 GA.)
(Red 12 GA.)
(White 16 GA.)

Broce Broom Wiring Diagram
Engine Control Panel - CR Model With Cab

- To: Fuel level element (RED/WHITE 16 GA.)
- To: Neutral Safety Switch (ORANGE 16 GA.)
- To: Starter Solenoid (RED 12 GA.)
- To: Alternator and Battery (RED 8 GA.)
- To: Starter (ORANGE 16 GA.)
- To: Alternator ON (ORANGE 16 GA.)
- To: Alternator (Tach. terminal) (ORANGE 16 GA.)
- To: Oil Pressure Switch (RED 10 GA.)
- To: Backup Alarm (RED 10 GA.)
- To: Glow Plugs (RED/WHITE 8 GA.)
- To: Dash Fuse Block (RED/WHITE 8 GA.)
- To: Ignition Switch (RED 8 GA.)
- To: Fuel Gauge (RED/GREEN 16 GA.)
- To: Temp Gauge (BROWN 16 GA.)
- To: Oil Gauge (GRAY 16 GA.)
- To: Tach. Gauge (BLACK 16 GA.)
- To: Ignition Switch (WHITE 16 GA.)
- To: Hour Meter (LT. BLUE 16 GA.)
- To: Backup Alarm PLUG (RED 16 GA.)

Harness

To: Dash Fuse Block

To: Engine Control Panel - CR Model With Cab

R1 R2 R3

100A Breaker

75A Relay

F1

30

20A Terminal Strip

PLUG: To Neutral Safety Switch

To: Water Temp Element (WHITE 16 GA.)
To: Oil Pressure Element (WHITE 16 GA.)
To: Alternator ON (WHITE 16 GA.)
To: Alternator (Tach. terminal) (WHITE 16 GA.)
To: Heavy (LT. GREEN 16 GA.)
To: Light (BLACK 16 GA.)
To: Light (BROWN 16 GA.)
To: Light (LT. BLUE 16 GA.)
To: Light (RED 18 GA.)
To: Light (PINK 16 GA.)
To: Light (GRAY 16 GA.)
To: Light (YELLOW 16 GA.)
To: Light (RED 18 GA.)
To: Light (RED 8 GA.)
To: Light (RED 8 GA.)
To: Light (RED 18 GA.)
To: Ignition Switch (RED 12 GA.)
To: Backup Alarm PLUG (RED 16 GA.)
4-Wheel Broce Broom Wiring Diagram

Optional Safety Engine Shutdown System

[Diagram showing wiring connections and components like safety engine shutdown switch, terminal strip, water temp sender w/contact, oil pressure sender w/contact, and ignition switch.]