WWF Motor Description
The WWF wiper system provides a totally self-contained oscillating shaft requiring no external linkage. The universal popularity of the WWF motor is enhanced by the fact that it gives the automotive user marine quality at no extra cost and is, consequently, ideal for any type of service. Parts exposed to weather are corrosion resistant. An “O” ring between the oscillating shaft and its bearing stud prevents water from entering. A worm gear on the armature shaft turns a large molded drive gear.

Construction

Adjustable Wipe Angle Capability

The WWF motor is set for a default 110º wipe angle that be adjusted at the time of installation to the angles shown. Quantity orders can be supplied set at 40º, 53º, 65º, 85º, 100º and 110º. Left or right hand park position is determined from view shown above and can be adjusted.

Applications
- Rear-window, motor homes
- Off-highway constructions Equipment
- Agricultural Equipment
- Marine

Features
- Left or Right hand park
- Easy to replace switch
- Optional two speed switch

<table>
<thead>
<tr>
<th>Wexco Part Number</th>
<th>Voltage</th>
<th>Shaft Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4R1.12.R110D</td>
<td>12</td>
<td>1”</td>
</tr>
<tr>
<td>4R1.24.R110D</td>
<td>24</td>
<td>1”</td>
</tr>
<tr>
<td>4R2.12.R110D</td>
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<td>2”</td>
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<tr>
<td>4R2.24.R110D</td>
<td>24</td>
<td>2”</td>
</tr>
<tr>
<td>4R3.12.R110D</td>
<td>12</td>
<td>3”</td>
</tr>
<tr>
<td>4R3.24.R110D</td>
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<td>3”</td>
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</table>
Specifications

Voltage: 12 or 24 Volts
Weight: Approximately 3 lbs.
Speed: 40/60 rpm ±10%
12V Current Draw: 2/3 Amps low/high, no load
12V Stall Current: 12 Amps
Terminals: 1/4” Male Blade
Hardware Kit: Wexco Part # 400300
Park Direction: CW/CCW
Shaft Length: 1”, 2” and 3”.

Acceptable WWF Motor Arm & Blade Combinations

<table>
<thead>
<tr>
<th>Wipe Angle</th>
<th>12”</th>
<th>14”</th>
<th>16”</th>
<th>18”</th>
<th>20”</th>
<th>Arm length</th>
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<tbody>
<tr>
<td>40°</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>15” - 25”</td>
<td>14” - 23”</td>
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</tr>
<tr>
<td>53°</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>15” - 25”</td>
<td>14” - 23”</td>
<td></td>
</tr>
<tr>
<td>65°</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>15” - 25”</td>
<td>14” - 23”</td>
<td></td>
</tr>
<tr>
<td>85°</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>15” - 25”</td>
<td>14” - 23”</td>
<td></td>
</tr>
<tr>
<td>100°</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110°</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>120°</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
<td>13” - 20”</td>
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</table>

Blade Lengths

Switch Kits

WWF switch kits are available stand alone or in large enough quantities pre installed by Wexco.

Two speed switch kit
Park/Low Speed/High Speed
Wexco Part # 200258

One speed switch kit
Park/Low Speed or High Speed
Wexco Part # 200257
WWF Motor Systems

WWF Motor Hardware Kit
Wexco Part # 400300

<table>
<thead>
<tr>
<th>Location</th>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>400297</td>
<td>M16x1 Nut</td>
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<tr>
<td>2</td>
<td>400298</td>
<td>Spacer</td>
</tr>
<tr>
<td>3</td>
<td>400299</td>
<td>Rubber Washer (2 X)</td>
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</table>

Wiring Diagram

- Wire motor using a coast to park switch, or use the Wexco supplied WWF motor switch kits.
- Must be grounded through vehicle chassis.
- 12V motor Requires 12 Amp external fuse
  24V motor Requires 6 Amp external fuse

Wipe angle Adjustments

The WWF motor wipe angle can be adjusted by removing the gear box cover and moving the lever plate pin to the correctly labeled hole. Left or right hand park can be achieved by changing the orientation of the gear plate with regard to pos 1 and pos 2, shown in the diagram.