

excel



Wiper Systems Handbook



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It's what we do.

EDITION 4

WIPER SYSTEM HANDBOOK




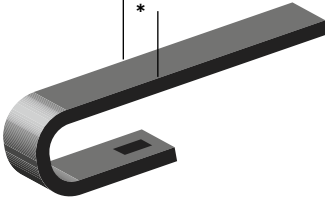
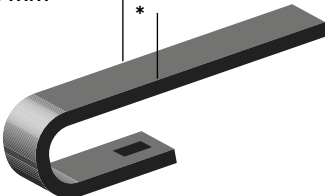



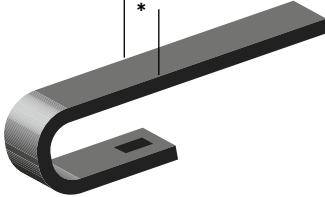

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Attachment and shaft identification

<p>S6</p> <p>6mm Straight</p>	<p>S10</p> <p>10mm Straight</p>	<p>S13</p> <p>13mm Knurl</p>
<p>S14</p> <p>14mm Knurl</p>	<p>S15.5</p> <p>15.5mm Knurl</p>	
<p>M8</p> <p>8mm Metric thread</p>	<p>These abbreviations are used throughout this catalogue to identify shaft attachment types</p>	
<p>T6</p> <p>M6 8mm</p>	<p>T8</p> <p>M8 10mm</p>	<p>T10</p> <p>M10 12 or 14mm</p>

Attachment and shaft identification

<p>A1</p> <p>* = 27mm</p> 	<p>A2</p> <p>* = 25mm</p> 	<p>A3</p> <p>* = 22mm</p> 
<p>B3</p> <p>* = 13.6mm</p> 	<p>B4</p> <p>* = 16.5mm</p> 	<p>C</p> <p>* = 7mm</p> 
<p>D</p> <p>* = 9mm</p> 	<p>F</p> <p>* = 7.2mm</p> 	<p>H</p> <p>* = 6.5mm</p> 
<p>K</p> <p>* = 14.5mm</p> 	<p>L</p> <p>* = 10.3mm</p> 	<p>P</p>  <p>5mm Pin</p>
<p>T</p> <p>* = 12mm</p> 	<p>Z</p> <p>"Hook"</p> 	

These abbreviations are used throughout this catalogue to identify blade attachment types.

System 100

WM23024.

24V

WM23112.

12V

WM23212.

12V



Sweep=85°
Shaft=100mm



Sweep=110°
Shaft=100mm



Sweep=110°
Shaft=50mm

System 100 motors are a light duty motor suited to small screens.

WM53012.

12V

WM53024.

24V



Sweep=110°
Stainless Steel



Sweep=110°
Stainless Steel

**See page 11
for more marine
type motors**


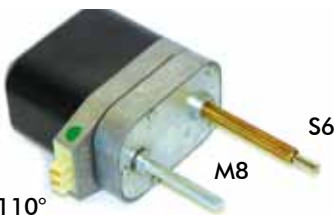



As above, but with corrosion resistant housings.

See page 4 for shaft type abbreviations.

See page 13 for arms to suit these motors.

See pages 16–17 for blades to suit.

System 200

WM23612.	12V	WM23624.	24V		
 <p>Sweep=110° With built-in switch</p>		 <p>Sweep=110° With built-in switch</p>			
WM23712.	12V	WM23812.	12V	WM23824.	24V
 <p>Sweep=90° With built-in switch</p>		 <p>Sweep=95° With self park</p>		 <p>Sweep=95° With self park</p>	






**System 200 motors can be used with pantograph or conventional arms.
These motors are suited to small and mid-size screens**

See page 4 for shaft type abbreviations.

See pages 13–15 for arms to suit these motors.

See pages 16–18 for blades to suit.

System 300

WM30012. 12V	WM30024. 24V	WM30112. 12V
 <p>Sweep=90° 2 Speed</p>	 <p>Sweep=90° 2 Speed</p>	 <p>Sweep=65° 2 Speed</p>
WM30124. 24V	WM30212. 12V	
 <p>Sweep=65° 2 Speed</p>	 <p>Sweep=105° With built-in switch</p>	

System 300 motors can be used with pantograph or conventional arms. These motors suit small to mid-size screens and feature a moulded cover. For greater mounting flexibility, the M8 idler support can be removed.

See page 4 for shaft type abbreviations.

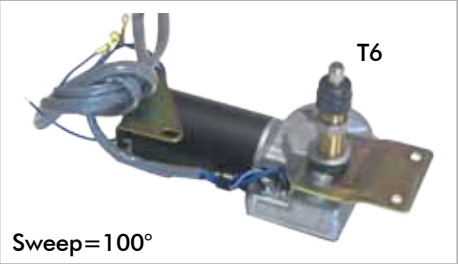
See pages 14-15 for arms to suit these motors.

See pages 16-18 for blades to suit.

See page 22 for wiring diagrams.

System 400

WM10112. 12V WM10124. 24V WM10024. 24V



WX11065. WX11080. WX11099.



System 400 motors are heavy duty motors made to replace the OEM 'ASMO' type. These motors suit mid to large size screen. They can be used with pantograph or conventional arms.









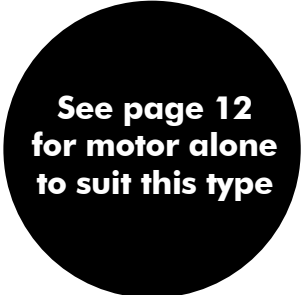
See page 4 for shaft type abbreviations.

See pages 13–14 for arms to suit these motors.

See pages 16–18 for blades to suit.

See page 22 for wiring diagrams.

System 500

<p>WM32012. 12V</p>  <p>Sweep=64° 2 Speed with intermittent T8</p>	<p>WM32024. 24V</p>  <p>Sweep=64° 2 Speed with intermittent T8</p>	<p>WM32112. 12V</p>  <p>Sweep=78° 2 Speed with intermittent T8</p>
<p>WM32124. 24V</p>  <p>Sweep=78° 2 Speed with intermittent T8</p>	<p>WM32212. 12V</p>  <p>Sweep=95° 2 Speed with intermittent T8</p>	<p>WM32224. 24V</p>  <p>Sweep=95° 2 Speed with intermittent T8</p>
<p>WM32312. 12V</p>  <p>Sweep=45° 2 Speed with intermittent T8</p>	<p>WM32324. 24V</p>  <p>Sweep=45° 2 Speed with intermittent T8</p>	

System 500 motors are heavy duty workhorses with capacity to handle larger screen sizes

- See page 4 for shaft type abbreviations.**
- See pages 14–15 for arms to suit these motors.**
- See pages 16–18 for blades to suit.**
- See page 22 for wiring diagrams.**

System 600

WM53012.

12V

WM53024.

24V



Sweep=110°
Stainless steel for marine use



Sweep=110°
Stainless steel for marine use

System 600 motors are corrosion resistant to suit the marine market

WM50012.

12V

WM50024.

24V

S14



Sweep=80° – Adjustable
Stainless steel for marine use

S14





Sweep=80° – Adjustable
Stainless steel for marine use

See page 4 for shaft type abbreviations.

See page 13 for arms to suit these motors.

See pages 16–18 for blades to suit.

OEM Styles































<p>WM21212. 12V</p>  <p>S10</p> <p>Mounts=62x62x62mm</p>	<p>WM21224. 24V</p>  <p>S10</p> <p>Mounts=62x62x62mm</p>	<p>WM21324. 24V</p>  <p>S13</p> <p>Mounts=62x62x62mm</p>
<p>WM22224. 24V</p>  <p>T8</p> <p>Mounts=62x62x62mm</p>	<p>WM11024. 24V</p>  <p>T8</p> <p>Mounts=55x55x55mm</p>	<p>WM21012. 212V</p>  <p>T8</p> <p>Dual mount centres: 44x44x44mm 67x74x74mm</p>
<p>WM21024. 24V</p>  <p>T8</p> <p>Dual mount centres: 44x44x44mm 67x74x74mm</p>	<p>WM21112. 12V</p>  <p>T8</p> <p>Dual mount centres: 44x44x44mm 67x74x74mm</p>	<p>WM21124. 24V</p>  <p>T8</p> <p>Dual mount centres: 44x44x44mm 67x74x74mm</p>
<p>WM10024. 24V</p>  <p>Replaces ASMO Type</p>  <p>T6</p> <p>Sweep=100°</p>	<p>WM11124. 24V</p>  <p>"LH"</p> <p>T8</p> <p>70x70x70mm mount * Cable synchronised</p>	<p>WM11224. 24V</p>  <p>"RH"</p> <p>T8</p> <p>70x70x70mm mount * Cable synchronised</p>
<p>WM10224. 24V</p>  <p>T6</p> <p>Mounts 67x90x133mm Sweep=105°</p>	<p>WM31012. 12V</p>  <p>T8</p> <p>Mounts=44x44x44mm</p>	<p>WM31024. 24V</p>  <p>T8</p> <p>Mounts=44x44x44mm</p>

See page 4 for shaft type abbreviations.

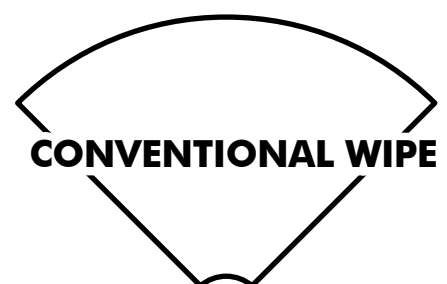
See pages 14-15 for arms.

See pages 16-18 for blades.
















Wiper arms – single

<p>WA90028.</p>  <p>Z S6</p> <p>Length = 280mm</p> 	<p>WA90035.</p>  <p>Z S6</p> <p>Length = 350mm</p> 	<p>WA20039.</p>  <p>K S6</p> <p>Length = 390mm</p> 
<p>WA20040.</p>  <p>K S6</p> <p>Length = 400mm</p> 	<p>WA20042.</p>  <p>K S6</p> <p>Length = 420mm</p> 	<p>WA20045.</p>  <p>K S6</p> <p>Length = 450mm</p> 
<p>WA30033-42.</p>  <p>K S6</p> <p>Length = 330-420mm</p> 	<p>WA30042-51.</p>  <p>K S6</p> <p>Length = 420-510mm</p> 	<p>WA90128.</p>  <p>K F S6</p> <p>Length = 280mm</p> 
<p>WA90135.</p>  <p>K F S6</p> <p>Length = 350mm</p> 	<p>WA10040.</p>  <p>H S10</p> <p>Length = 400mm</p> 	<p>WA10045.</p>  <p>H S10</p> <p>Length = 450mm</p> 
<p>WA10050.</p>  <p>H S10</p> <p>Length = 500mm</p> 	<p>WA90030-40.</p>  <p>K F S15.5</p> <p>Length = 300mm</p> 	<p>WA90040.</p>  <p>K F S15.5</p> <p>Length = 400mm</p> 

See pages 4 & 5 for attachment abbreviations

































Wiper arms – single

<p>WA11140.</p>  <p>H</p> <p>T6</p> <p>Length = 400mm</p> 	<p>WA11155.</p>  <p>H</p> <p>T6</p> <p>Length = 550mm</p> 	<p>WA31042-51.</p>  <p>K F</p> <p>Length = 410-510mm</p> 
<p>WA91037.</p>  <p>P See below*</p> <p>T8</p> <p>Length = 370mm</p> 	<p>WA91047.</p>  <p>P See below*</p> <p>T8</p> <p>Length = 470mm</p> 	<p>WA31133-42.</p>  <p>K F</p> <p>T8</p> <p>Length = 330-420mm</p> 
<p>WA33142-50.</p>  <p>K F</p> <p>T8</p> <p>Length = 420-500mm</p> 	<p>WA11063L.</p>  <p>L</p> <p>T10</p> <p>Length = 630mm</p> 	<p>WA11068L.</p>  <p>L</p> <p>T10</p> <p>Length = 680mm</p> 
<p>WA11063R.</p>  <p>L</p> <p>T10</p> <p>Length = 630mm</p> 	<p>WA11068R.</p>  <p>T10</p> <p>L</p> <p>Length = 680mm</p> 	
<p>WX9600.</p>  <p>P</p> <p>*P adaptor kit – see page 19</p> 		

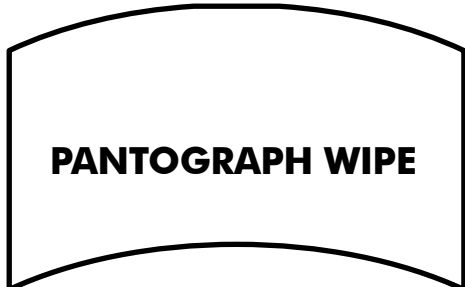
See pages 4 & 5 for attachment abbreviations













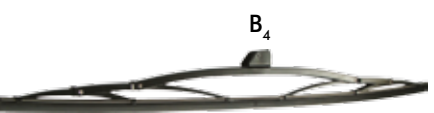
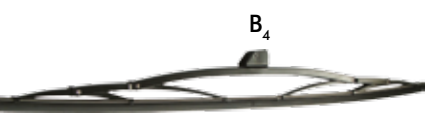



Wiper arms – double

<p>WA22040.</p>  <p>K S6 M8</p> <p>Length = 400mm</p> 	<p>WA12050.</p>  <p>H Idler</p> <p>Length = 550mm</p> 	<p>WA12069.</p>  <p>H Idler</p> <p>Length = 690mm</p> 
<p>WA33042-50.</p>  <p>K T8 M8</p> <p>Length = 420-500mm</p> 	<p>WA33136-44.</p>  <p>K T8</p> 	<p>WA33145-53.</p>  <p>K T8</p> 
<p>WA33152-60.</p>  <p>K T8 T8</p> 	<p>WA34012-50.</p>  <p>K T8 T8</p> 	<p>WA34060.</p>  <p>K T8 T8</p> 
<p>WA34070.</p>  <p>K T8 T8</p> 	<p>WA34080.</p>  <p>K T8 T8</p> 	<p>WA34099.</p>  <p>K T8 T8</p> 
<p>WA13060.</p>  <p>H Idler S10</p> <p>Length = 600mm</p> 	<p>WA13169.</p>  <p>B3 T10 Idler</p> <p>Length = 690mm</p> 	<p>WA13175.</p>  <p>B3 T10 Idler</p> <p>Length = 750mm</p> 

See pages 4 & 5 for attachment abbreviations



Wiper blades

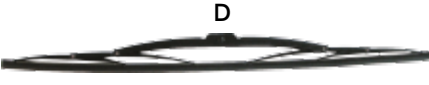


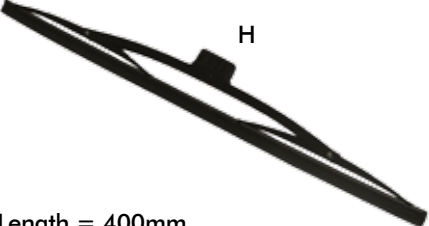
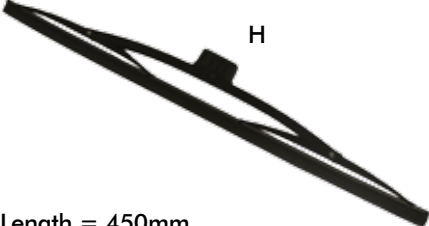
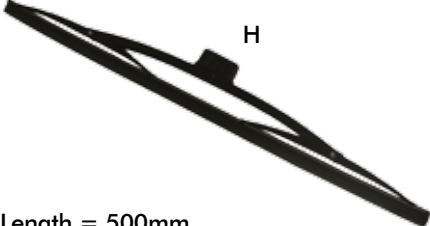
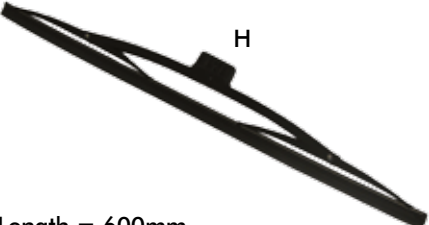








<p>WB90435.</p> <p>Flat screens only</p>  <p>Length = 350mm</p>	<p>WB10140.</p> <p>Flat screens only</p>  <p>Length = 400mm</p>	<p>WB10145.</p> <p>Flat screens only</p>  <p>Length = 450mm</p>
<p>WB20330.</p> <p>Flat screens only</p>  <p>Length = 330mm</p>	<p>WB20336.</p> <p>Flat screens only</p>  <p>Length = 360mm</p>	<p>WB20340.</p> <p>Flat screens only</p>  <p>Length = 400mm</p>
<p>WB22080.</p>  <p>Length = 800mm</p>	<p>WB22090.</p>  <p>Length = 900mm</p>	<p>WB22099.</p>  <p>Length = 1000mm</p>
<p>WB22060.</p>  <p>Length = 600mm</p>	<p>WB22065-1.</p>  <p>Length = 650mm</p>	<p>WB22070-1.</p>  <p>Length = 450mm</p>
<p>WB22040.</p>  <p>Length = 400mm</p>	<p>WB22045.</p>  <p>Length = 450mm</p>	<p>WB22050.</p>  <p>Length = 500mm</p>

See pages 4 & 5 for attachment abbreviations.

See pages 13-15 for arms to suit these blades.

See page 19 for adaptors.

Wiper blades

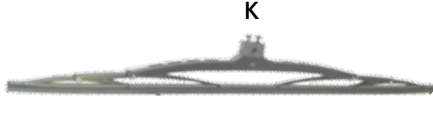




<p>WB22060D.</p>  <p>Length = 600mm</p>	<p>WB22040.</p>  <p>Length = 400mm</p>	<p>WB12245.</p>  <p>Length = 450mm</p>
<p>WB22040H.</p>  <p>Length = 400mm</p>	<p>WB22045H.</p>  <p>Length = 450mm</p>	<p>WB22050H.</p>  <p>Length = 500mm</p>
<p>WB22060H.</p>  <p>Length = 600mm</p>	<p>WB22040.</p>  <p>Length = 400mm</p>	<p>WB22045.</p>  <p>Length = 450mm</p>
<p>WB22050.</p>  <p>Length = 500mm</p>	<p>WB22060.</p>  <p>Length = 600mm</p>	<p>WB22065-1.</p>  <p>Length = 650mm</p>
<p>WB22070-1.</p>  <p>Length = 700mm</p>	<p>WB2208086.</p>  <p>Length = 800mm</p>	<p>WB22090.</p>  <p>Length = 900mm</p>

See pages 4 & 5 for attachment abbreviations.

See pages 13-15 for arms to suit these blades.

See page 19 for adaptors.

Wiper blades

<p>WB22099.</p>  <p>K</p> <p>Length = 1000mm</p>	<p>WB12250.</p>  <p>L</p> <p>Length = 300mm</p>	<p>WB12256.</p>  <p>L</p> <p>Length = 560mm</p>
<p>WB22005-2.</p>  <p>T V</p> <p>Length = 650mm</p>	<p>WB22070-2.</p>  <p>T V</p> <p>Length = 700mm</p>	


















Wiper blade refills

<p>WR90670.</p>  <p>Refill</p> <p>6mm Plastic Back</p> <p>Length = 700mm</p>	<p>WR90855.</p>  <p>Refill</p> <p>8mm Plastic Back</p> <p>Length = 550mm</p>	<p>WR90870.</p>  <p>Refill</p> <p>8mm Plastic Back</p> <p>Length = 700mm</p>
<p>See pages 4 & 5 for attachment abbreviations. See pages 13-15 for arms to suit these blades. See page 19 for adaptors.</p>		<p>WR91270.</p>  <p>Refill</p> <p>12mm Plastic Back</p> <p>Length = 700mm</p>

Adaptors

<p>WX12016.</p> <p>B3, B4, K</p> 	<p>WX12018.</p> <p>B6, K</p> 	<p>WX12015.</p> <p>H</p> 
<p>WX12017.</p> <p>K F</p> 	<p>WX9600.</p> <p>P</p> 	<p>WX31000.</p> <p>T8 S10</p>  <p>Universal Crank</p>
<p>WX12001.</p> <p>S14</p>  <p>Suits 6mm straight shaft</p>	<p>WX12002.</p> <p>S15.5</p>  <p>Suits 6mm straight shaft</p>	<p>WX12000.</p> <p>Wiper linkage bush</p>  <p>20mm suits 16mm ball</p>
<p>WX12720.</p> <p>16mm ball</p>  <p>Adjustable M20 T10</p>	<p>WX160614.</p> <p>Wiper Shaft Kit M20 x 1.0</p> 	<p>WX160616.</p> <p>Wiper Shaft Kit M20 x 0.75</p> 
<p>WX160617.</p> <p>Wiper Shaft Kit M14 x 1.0</p> 	<p>WX160618.</p> <p>Wiper Shaft Kit M16 x 1.0</p> 	<p>Other pivots etc available on request</p>

Washer pumps

<p>WP160197. 12V</p>  <p>8mm</p> <p>Common Euro</p>	<p>WP160198. 24V</p>  <p>8mm</p> <p>Euro trucks</p>	<p>WP160381. 12V</p>  <p>for front/rear screen</p> <p>8mm</p> <p>Common Euro</p>
<p>WP501. 12V</p>  <p>18mm</p> <p>Common</p>	<p>WP124. 24V</p>  <p>18mm</p> <p>Common</p>	<p>WP160360. 12V</p>  <p>18mm</p>
<p>WP200. 12V</p>  <p>18mm</p>	<p>WP500. 12V</p>  <p>7mm</p>	<p>WP160223. 12V</p>  <p>4mm</p>
<p>WP160507. 24V</p>  <p>4mm</p>	<p>WP160332. 12V</p>  <p>4mm</p> <p>High flow</p>	<p>WP160289 24V</p>  <p>4mm</p> <p>High flow</p>
<p>WP160535. 12V</p> <p>for front/rear screen</p>   <p>4mm</p> <p>Japanese</p>	<p>WP160629. 12V</p> <p>for front/rear screen</p>   <p>4mm</p> <p>European</p>	<p>WP160679. 12V</p>  <p>4mm</p> <p>Mercedes</p> <p>Round connection pins</p>

Washer kits etc

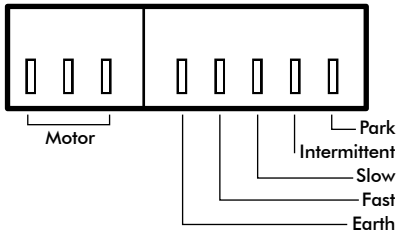
<p>WK4-00. 12V</p> <p>1.2L capacity Complete kit</p>  <p>Bottle size: 80mmH x 120mmW x 100mmD</p>	<p>WK4-01. 24V</p> <p>1.2L capacity Complete kit</p>  <p>Bottle size: 80mmH x 120mmW x 100mmD</p>	<p>WK4-02 12V</p> <p>1L capacity Complete kit</p>  <p>Bag size: 290mmH x 200mmW</p>
<p>WK4-03.</p> <p>1L capacity Complete kit</p>  <p>Bottle size: 100mmH x 210mmW x 100mmD</p>	<p>WK4-04. 12V</p> <p>3L capacity Bottle and pump only</p>  <p>Bottle size: 200mmH x 200mmW x 100mmD</p>	<p>WK4-05 24V</p> <p>3L capacity Bottle and pump only</p>  <p>Bottle size: 200mmH x 200mmW x 100mmD</p>
<p>WX160412.</p>  <p>Tubing Joiner</p>	<p>WX160413.</p>  <p>One-way valve</p>	<p>WX160195.</p>  <p>Tee connector</p>
<p>WX160190.</p>  <p>Twin Nozzle</p>	<p>WX160192.</p>  <p>Twin Nozzle</p>	<p>WX160685.</p>  <p>Tall twin nozzle</p>
<p>WX160686.</p>  <p>Single nozzle</p>	<p>For switches see our Excel Switch World Handbook.</p>	<p>WX190094.</p>  <p>4mm tubing</p>

Wiring Diagrams

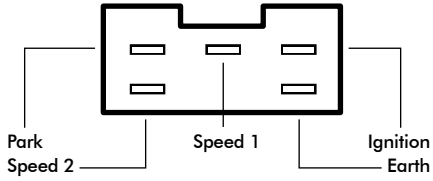
WX31001.

Plug available to suit

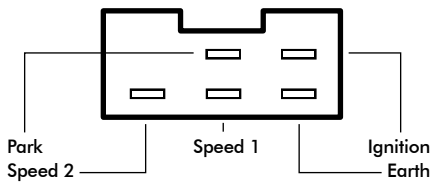
**Image not available
at time of print**



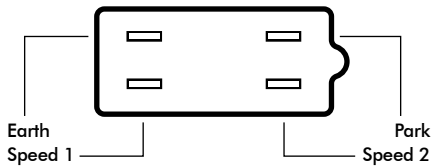
Applies to
WM31012.
WM31024.
System 500.



Applies to
System 300.

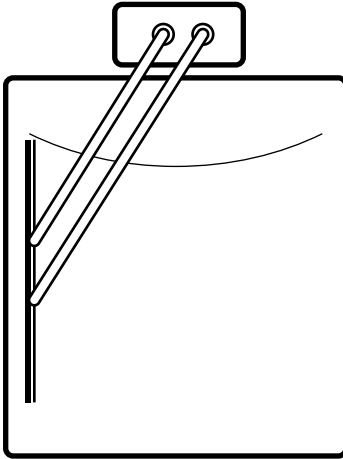


Applies to
WM21012.
WM21024.
WM21112.
WM21124.



Applies to
Various DOGA motors

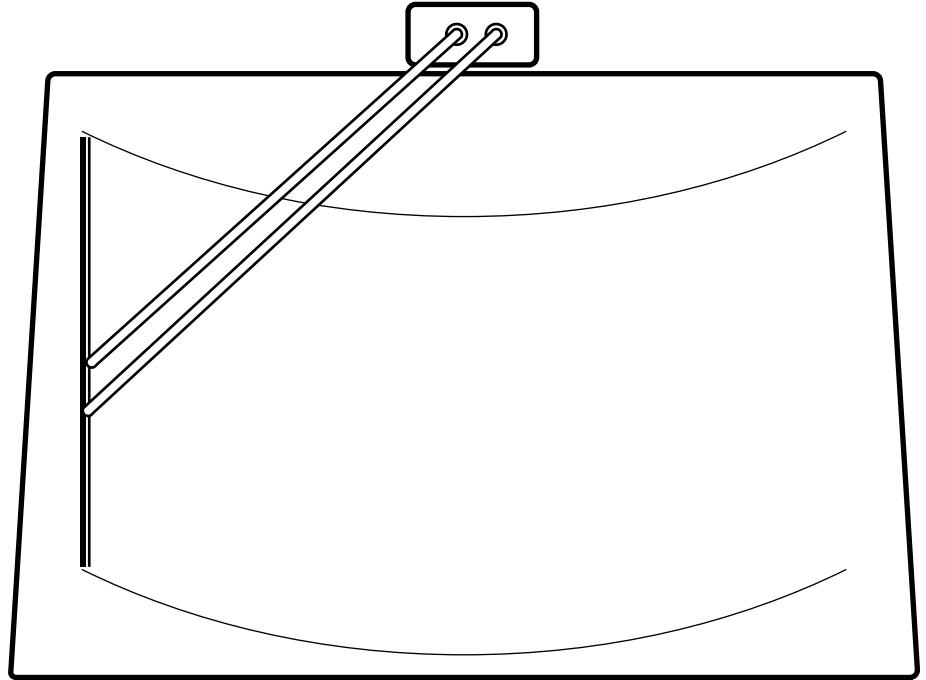
Suggested sets



Screen Size: 450W x 500H

Wiper Kit: **WMK001**

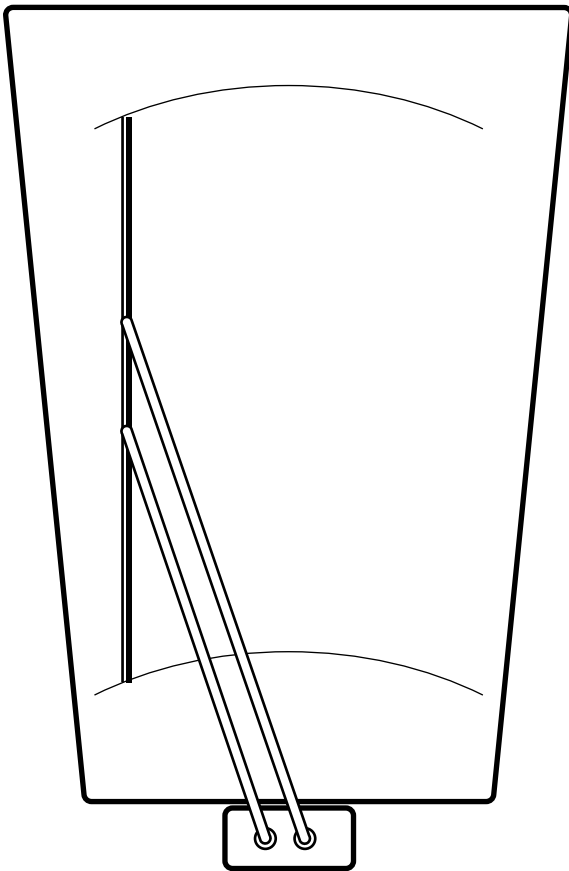
- Kit includes:
- Wiper motor **WM30124** (24v)
- Wiper arm **WA33136-44**
- Wiper blade **WB20340**



Screen Size: 1200W/B x 1100W/T x 500H

Wiper Kit: **WMK003**

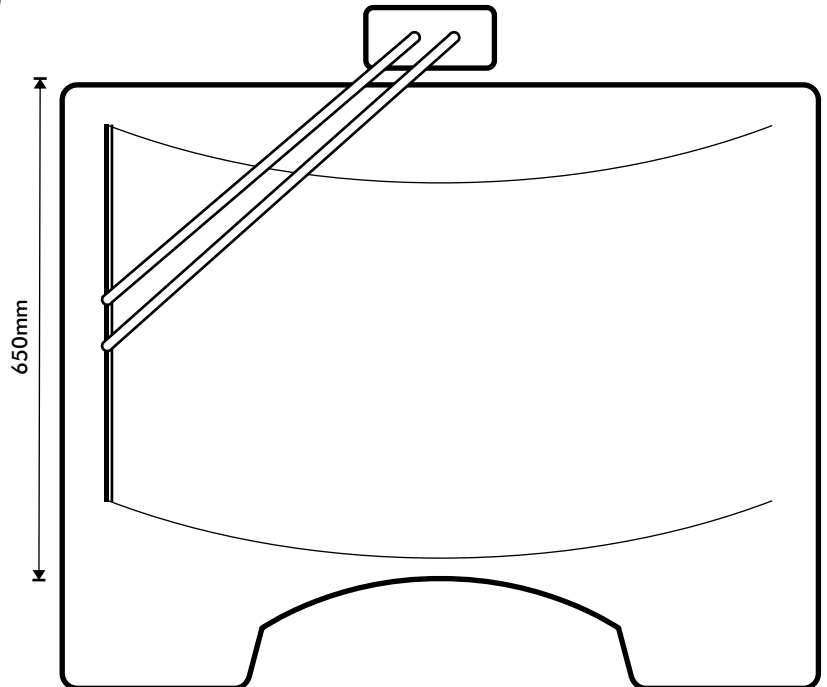
- Kit includes:
- Wiper motor **WM10112** (12v)
- Wiper arm **WA12050**
- Wiper blade **WB22050-H**



Screen Size: 570W/B x 750W/T x 1050H

Wiper Kit: **WMK002**

- Kit includes:
- Wiper motor **WM32324** (24v)
- Wiper arm **WA34070**
- Wiper blade **WB22070**



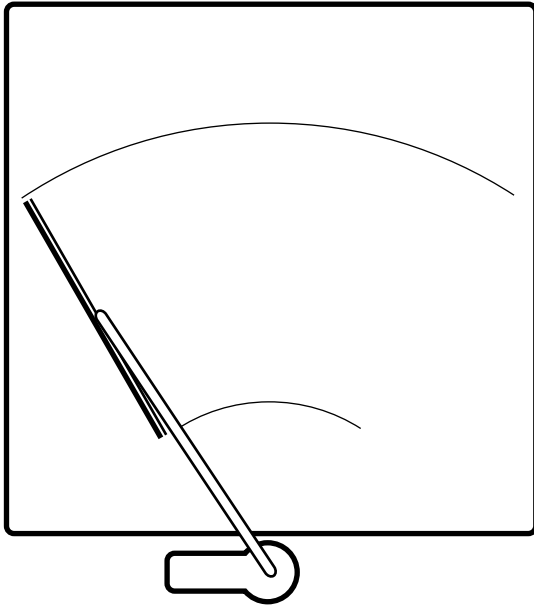
Screen Size: 1000W x 650H

Wiper Kit: **WMK004**

- Kit includes:
- Wiper motor **WM23612** (12v)
- Wiper arm **WA33042-50**
- Wiper blade **WB 2204**

*Diagrams on this page are indicative only and are not to scale

Suggested sets



Screen Size: 700W x 700H

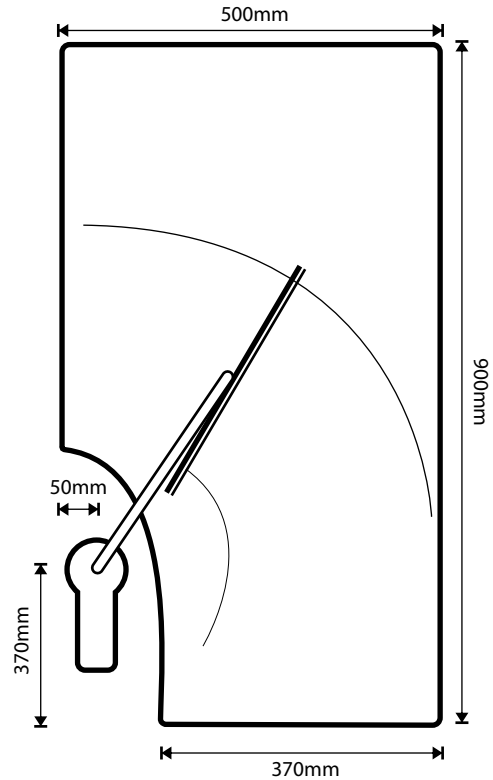
Wiper Kit: **WMK005** (Light Duty)

Kit includes:

Wiper motor **WM23112** (12v)

Wiper arm **WA20042**

Wiper blade **WB20336**



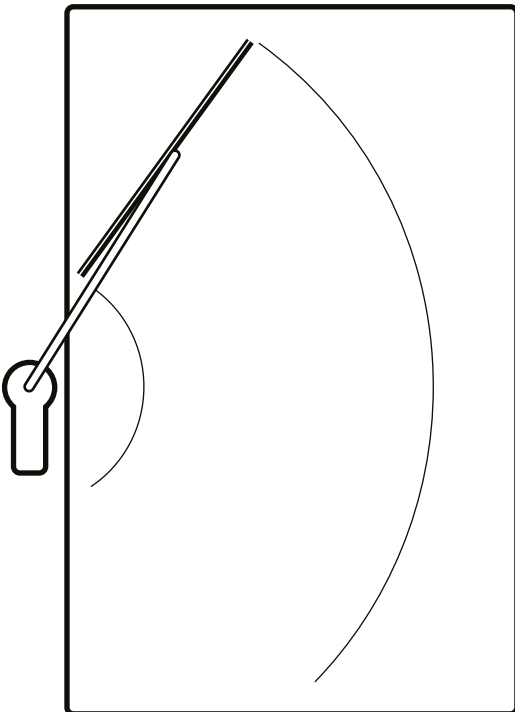
Wiper Kit: **WMK007** (Light Duty)

Kit includes:

Wiper motor **WM23112** (12v)

Wiper arm **WA20042**

Wiper blade **WB20336**



Screen Size: 700W x 1100H

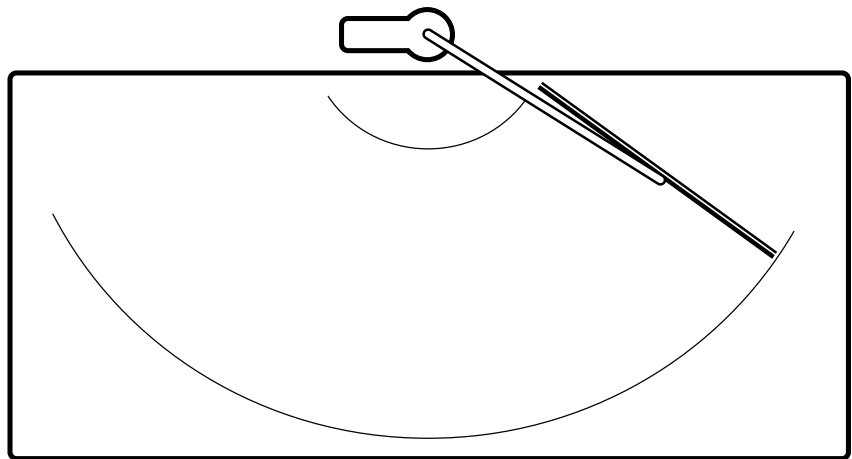
Wiper Kit: **WMK006**

Kit includes:

Wiper motor **WM30212** (12v)

Wiper arm **WA31133-42**

Wiper blade **WB22050-1**



Screen Size: 1300W x 600H

Wiper Kit: **WMK008**

Kit includes:

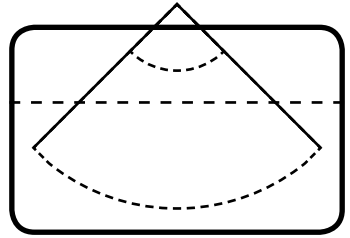
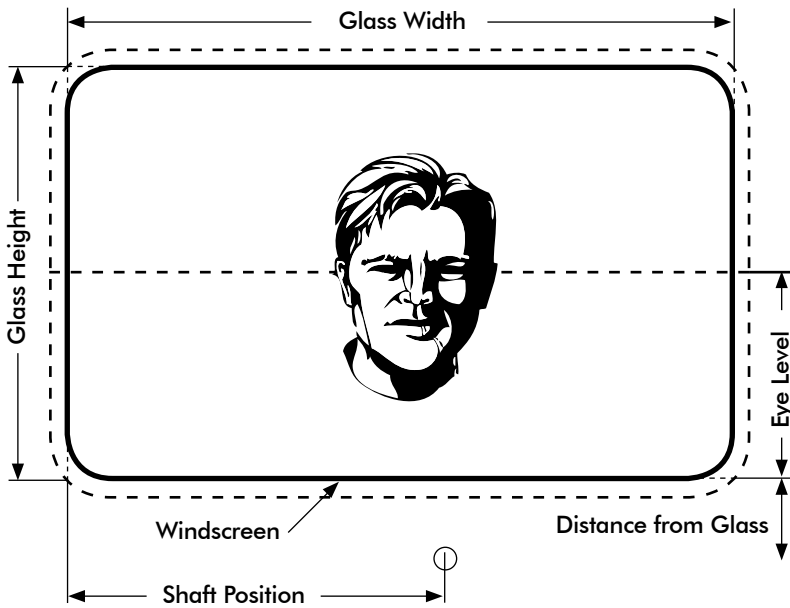
Wiper motor **WM23112** (12v)

Wiper arm **WA20045**

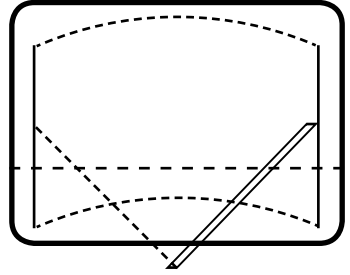
Wiper blade **WB22045**



WIPER SYSTEMS CUSTOM DESIGN REQUEST



CONVENTIONAL WIPE



PANTOGRAPH WIPE

AS VIEWED FROM THE EXTERIOR OF THE SCREEN

VOLTAGE: 12 VOLT: or 24 Volt

GLASS WIDTH: _____ mm

GLASS HEIGHT: _____ mm

SHAFT POSITION: _____ mm

DISTANCE FROM GLASS: _____ mm

EYE LEVEL: _____ mm

IS SCREEN CURVED: or FLAT:

IS WASHER KIT REQUIRED: YES: or NO:

Special Comments: _____

COMPANY NAME: _____

CONTACT PHONE: (0__) _____

FAX TO:
09 442 1552

DASKO USE ONLY

Recommended:

MOTOR: _____

ARM: _____

BLADE: _____

OTHER: _____

PH: 0508 432 756

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