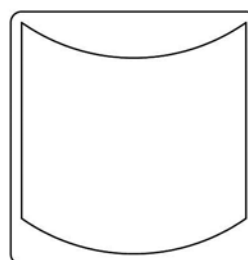




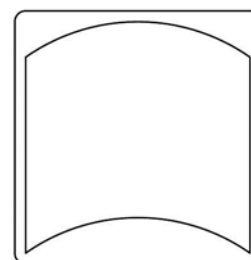
# 2D-1

## Double Driver Wiper System

### PANTOGRAPH



Top Mount



Bottom Mount

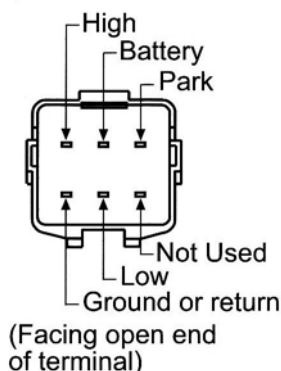
**Stainless Steel shafts and seals to IP55 available**

### Presenting the latest in single-motor, double-driver wiper technology!

AM Equipment's 2D Wiper System is built for superior durability. SAE tested to over 2.1 million cycles.

- Needle bearings and Igus link bushings for minimal energy loss to friction.
- 35Nm dynamic park 2-speed motor with RFI/EMI suppression.
- FMVSS Compliant.
- System installation requires no secondary adjustments.
- Integrated knurl on pivot shafts.

Wiring terminal for **dynamic park** applications:



#### Available System Options

Power	Available in 12 or 24 Volt configurations
Sweep Angles	Pantograph patterns from 50 to 90 degrees*
Pivot Shafts	73mm
Arms	Standard or Heavy Duty Double Driver

\* Sweep limited to 80 degrees with heavy duty arm



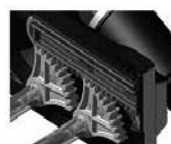
Mounting holes available for added mounting flexibility



78mm pivot shafts allow mounting through bulkheads up to 2"



High-efficiency 35Nm 2-speed motor with RFI/EMI suppression



US Patent #11/440.608

17mm pivot shafts provide improved torsional rigidity



30mm pivot body provides improved mounting strength

#### APPLICATIONS

- Bus & Coach
- Rail
- Marine
- Industrial Cab
- Commercial Vehicles
- Agricultural Vehicles

# HDP-1

## Heavy Duty Arm

For use with 2D-1 Assembly

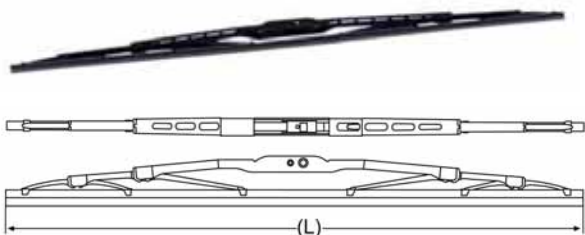


**Presenting the latest  
in wiper arm technology!**

AM Equipment's heavy duty arm is manufactured from steel, aluminium and composite materials offering superior durability

**Stainless Steel also available**

- EFEX Thermoplastic-coated spring for superior corrosion resistance.
- Compression spring tension is custom calibrated for each application.
- UV stabilized composites.
- Internally routed washer hose is hidden from view and reduces snagging.
- Integrated spray nozzle distributes fluid in an even spray pattern.
- Galvanised with black powdercoat.
- Flexible for flat or curved screens.



### Blade Chart

Length	Part #
500mm	302-1200*
550mm	302-1220*
600mm	302-1240*
650mm	302-1260*
700mm	302-1280*
800mm	302-1320*
900mm	302-1360
1000mm	302-1400

\* Requires an adaptor for use with 2D Heavy Duty arms

### Available Arm Options

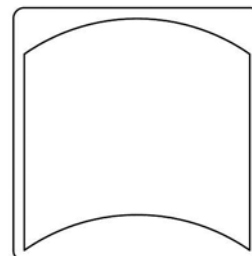
Length	560mm to 910mm (10mm increments)
Bend Angle	0 - 30 degree bends (1 degree increments)
Bend Direction	Left hand and right hand bends
Washer	Wet or dry
Blades	Framed Blades to 1300mm
Mounting	Heavy duty 16mm spline interface
Upgrades	Stainless steel extensions available

### Arm Length Chart

mm	inch	mm	inch	mm	inch
560	22	680	27	810	32
570		690		820	
580	23	700		830	
590		710	28	840	33
600		720		850	
610	24	730	29	860	34
620		740		870	
630	25	750		880	
640		760	30	890	35
650		770		900	
660	26	780	31	910	36
670		790			
		800			



### PANTOGRAPH



Dual Driven



Matte black finish



E-coated die-cast aluminium channel  
EFEX Thermoplastic coated spring for superior corrosion resistance

Custom length and bend for your application



Standard saddle connection



Service back feature for easy blade changes

### APPLICATIONS

- Bus & Coach
- Rail
- Marine
- Industrial Cab
- Commercial Vehicles
- Agricultural Vehicles

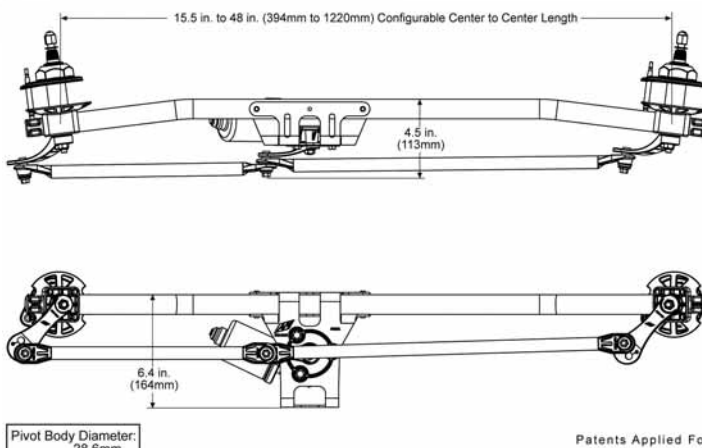


Integrated dual fan spray nozzle distributed fluid in an even pattern

# Two Pivot Radial Wiper System



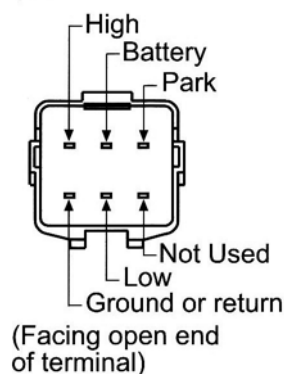
- Unique tubular tandem radial wiper system.
- Supports up to 30" (760mm) arms and 32" (800mm) blades.
- Sweep angles available from 73" to 106".
- Configurable for the majority of cap designs.
- Stringer angles made to accommodate cap radius.
- Exceeds SAE standard durability tests.
- Tubular steel stringer available from 15.5" (394mm) to 48" (1220mm) in centre to centre length.
- Adjustable support bracket.
- Cast steel motor-mount bracket can be positioned in different locations to circumvent obstacles.
- Bigger, stronger 17mm pivot shaft with needle bearings and cast aluminium housing.
- Cast steel pivot shaft lever and drive arm provide better control and minimize pattern growth.
- Stacking delrin link ends fit 16mm spherical bearings and cast aluminium housing.
- Disc mounting system allows ease of installation and minimizes distortion of fibreglass cap.
- 3.6" (91.5mm) self-adjusting inner support disc adapts to manufacturers' variations in cap radius.
- 3.84" (97.5mm) outer disc incorporates bulkhead fitting for cleaner appliances.
- Powered by a heavy-duty 38Nm dynamic park motor for less amp draw.
- Available in 12V or 24V and low or high side switched.



## APPLICATIONS

- Bus & Coach
- Rail
- Marine
- Industrial Cab
- Commercial Vehicles
- Agricultural Vehicles

Wiring terminal for **dynamic park** applications:



## 2P Radial Hookslot Arms

- For use with 2P tandem radial wiper system.
- Hookslot connector for quick blade installation.
- Heavy duty design.
- "Three-tower" adjustable washer nozzle.
- Available in 27" (685mm), 29" (735mm) and 30" (760mm) lengths.
- Arm bend available in 16" and 33".



Hookslot Arm with 16" Bend

Part #	Arm Length*
345-0227	27" (685mm)
345-0229	29" (735mm)
345-0230	30" (760mm)

Hookslot Arm with 33" Bend

Part #	Arm Length*
345-0127	27" (685mm)
345-0129	29" (735mm)
345-0130	30" (760mm)

\* Arm length is measured from centre of installed blade to centre of pivot shaft mounting hole.



## Frameless Blades

- For use with hookslot style arm.
- Aerodynamic, lightweight one-piece design.
- Corrosion resistant all-season blade.
- Available in up to 32" (800mm) lengths

# 238 Series Motor

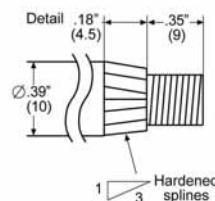
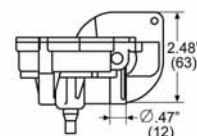
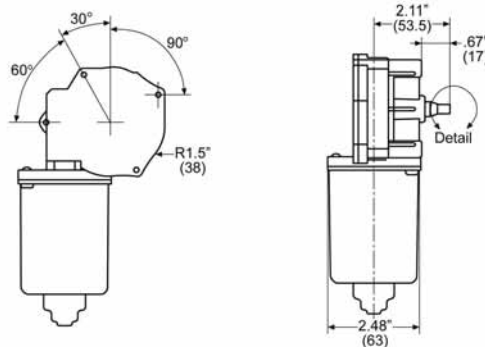
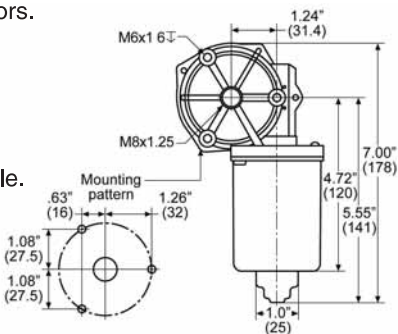
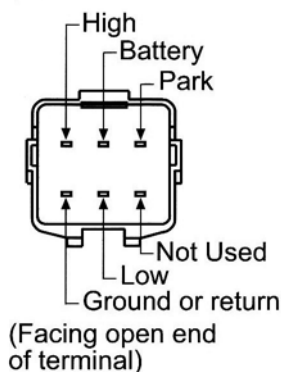
- 38 Nm.
- SAE standard durability tested.
- Compact size will retrofit into existing space.
- Standard RFI suppression.
- Water-resistant motor and plug connectors.
- Dynamic park.
- Available in 12V or 24V.
- Available in low or high side switched.
- A variety of pigtail adapter cords available.

## APPLICATIONS

- Rail
- Industrial Cab
- Commercial Vehicles
- Agricultural Vehicles



Wiring terminal for **dynamic park** applications:

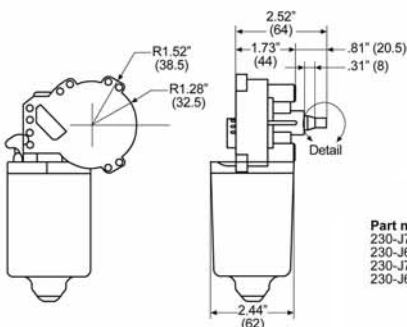
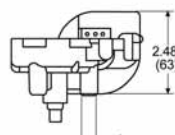
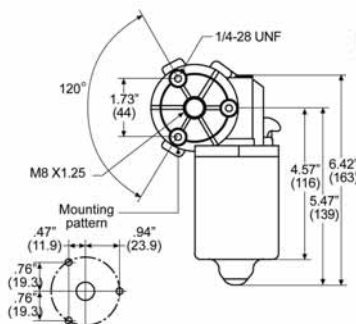


Part numbers:  
238-1002 12V  
238-1003 24V  
238-1004 12V, low side switched  
238-1005 24V, low side switched



# WJ Replacement 230 Series Left Hand Motor

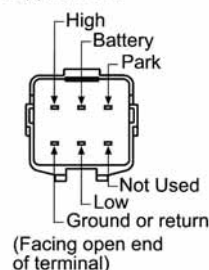
- 38 Nm.
- SAE standard durability tested.
- Will retrofit into existing WJ applications.
- Standard RFI suppression.
- Water-resistant motor and plug connectors.
- Available in dynamic park or coast to park.
- Available in 12V or 24V.
- Available in low or high side switched.
- A variety of pigtail adapter cords available.



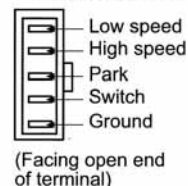
Part numbers:  
230-J791 12V, dynamic park  
230-J652 12V, coast to park  
230-J714 12V, coast to park, low side switched  
230-J661 24V, coast to park

Note: Coast to park and dynamic park motors are not interchangeable

Wiring terminal for **dynamic park** applications:



Wiring terminal for **coast to park** applications:

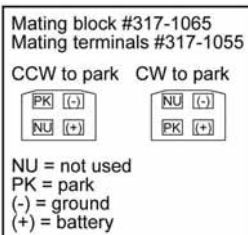
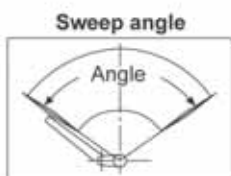
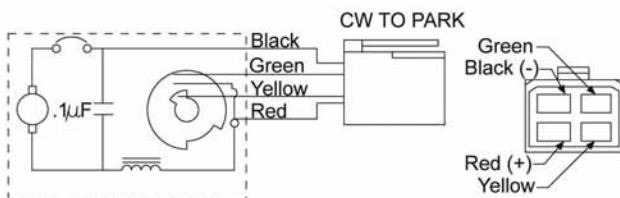
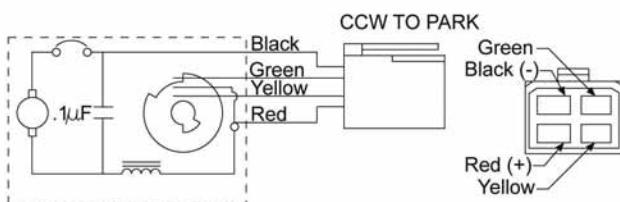
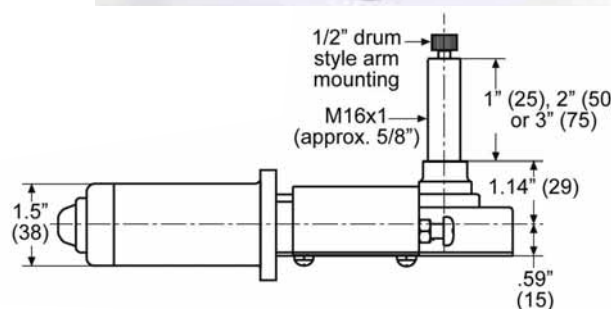
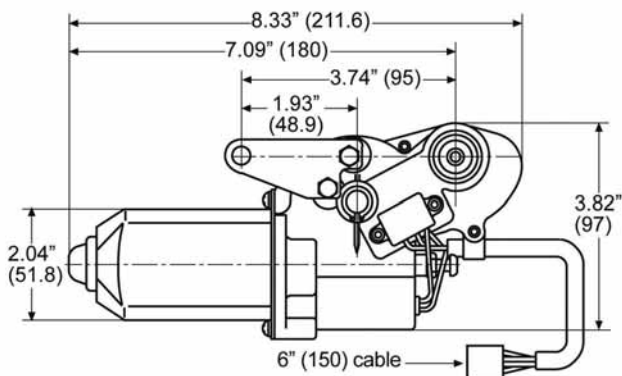


# 212 Series Oscillating Wiper Motor

- 12 Nm.
- Available in 65°, 85°, 100° or 110° sweep angles.
- Configurable for clockwise or counterclockwise park by changing the terminal location in the mating wiring harness.
- Standard RFI suppression and circuit breaker.
- 1" (25mm), 2" (50mm) and 3" (75mm) pivot shaft lengths available.
- Brass pivot body.
- Stainless steel pivot shaft.
- Marine grade specifications.
- Available in 12V and 24V.

## APPLICATIONS

- Marine
- Industrial Cab
- Agricultural Vehicles



Parts included with 212 motor listed below for replacement.

- # 407-1065 Brass nut
- # 407-1067 Rubber washer
- # 407-1066 Stainless washer
- # 315-1010 Hardware kit includes:
- # 407-1065
- # 407-1067
- # 407-1066

Terminal	Rated voltage	12V/24V
Voltage	Test voltage	13.5V/27.0V
No Load	Current	2.5 Max/1.25A
	Start voltage	10V Max
	Temp. rise	40°C Max
	Oper. speed	40-45 CPM
Load	Current	4A Max/2.0A
	Torque	12 ± 1Nm
Lock	Current	15 ± 0.5A

## 12V Motors

Part #	Shaft length	Sweep angle	Max arm/blade*
212-2003	1" (25mm)	110°	18" (460mm)/ 18" (460mm)
212-2203	2" (50mm)		
212-2403	3" (75mm)		
212-2002	1" (25mm)	100°	19" (480mm)/ 19" (480mm)
212-2202	2" (50mm)		
212-2402	3" (75mm)		
212-2001	1" (25mm)	85°	20" (500mm)/ 20" (500mm)
212-2201	2" (50mm)		
212-2401	3" (75mm)		
212-2000	1" (25mm)	65°	22" (550mm)/ 22" (550mm)
212-2200	2" (50mm)		
212-2400	3" (75mm)		

## 24V Motors (Special Order)

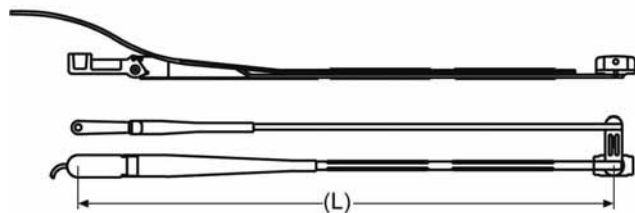
Part #	Shaft length	Sweep angle	Max arm/blade*
212-2103	1" (25mm)	110°	18" (460mm)/ 18" (460mm)
212-2303	2" (50mm)		
212-2503	3" (75mm)		
212-2102	1" (25mm)	100°	19" (480mm)/ 19" (480mm)
212-2302	2" (50mm)		
212-2502	3" (75mm)		
212-2101	1" (25mm)	85°	20" (500mm)/ 20" (500mm)
212-2301	2" (50mm)		
212-2501	3" (75mm)		
212-2100	1" (25mm)	65°	22" (550mm)/ 22" (550mm)
212-2300	2" (50mm)		
212-2500	3" (75mm)		

\* **WARNING:** Maximum arm and blade length combinations are based upon 1.5oz. of pressure per inch of blade length (0.17N/cm). Applications may vary. Arms may be radial or pantograph.

# 212 Series Pantograph Wiper Arms



- Made of corrosion-resistant stainless steel flatwire.
- Flip back for cleaning.
- Includes blade mounting bolt (402-1111) and nut (402-1112)

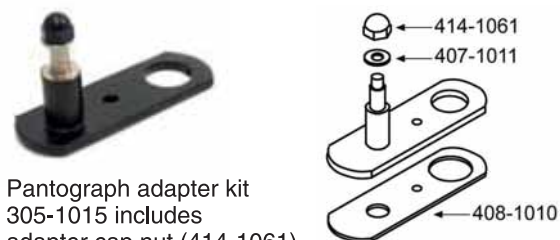


## Pantograph adapter for mounting with through-bolt in fibreglass and glass



Pantograph adapter kit 305-1021 includes adapter cap nut (414-1061), washer (407-1011), and gasket (408-1022).

## Pantograph adapter for mounting in metal with self-tapping screw



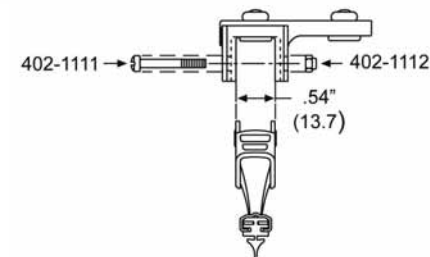
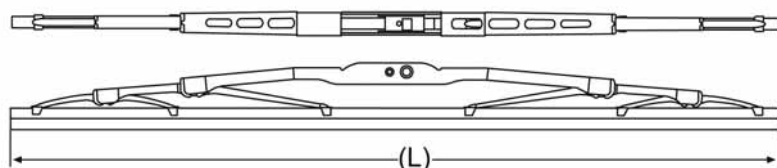
Pantograph adapter kit 305-1015 includes adapter cap nut (414-1061), washer (407-1011), and gasket (408-1010).

212 Pantograph arms, wet		212 Pantograph arms, dry	
Part #	Arm Length (L)	Part #	Arm Length (L)
341-3140	14" (355mm)	341-1140	14" (355mm)
341-3150	15" (380mm)	341-1150	15" (380mm)
341-3160	16" (405mm)	341-1160	16" (405mm)
341-3170	17" (430mm)	341-1170	17" (430mm)
341-3180	18" (455mm)	341-1180	18" (455mm)
341-3190	19" (483mm)	341-1190	19" (483mm)
341-3200	20" (508mm)	341-1200	20" (508mm)
341-3210	21" (533mm)	341-1210	21" (533mm)
341-3220	22" (559mm)	341-1220	22" (559mm)

# Standard Flex Wiper Blades



- Flexible for flat or curved glass.
- Refillable moulded wiper elements.
- Galvanised, powder coated frames for corrosion resistance.
- Compatible with 208, 212, 230 and Double Driver arms.



## Compatibility Chart

Motor Series	Max Blade L
208	18" (450mm)
212	22" (550mm)
230	28" (700mm)
Double Driver	32" (800mm)

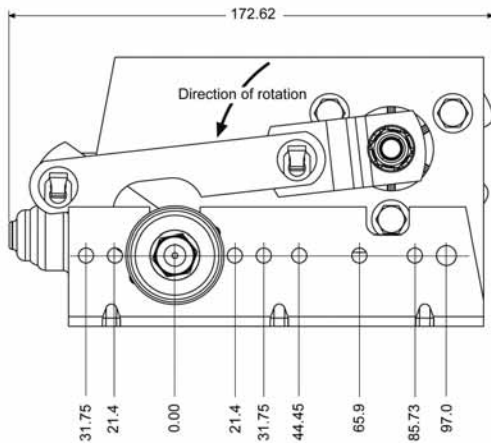
Part #	Arm Length*
302-1120	12" (300mm)
302-1130	13" (330mm)
302-1140	14" (350mm)
302-1150	15" (380mm)
302-1160	16" (400mm)
302-1170	17" (430mm)
302-1180	18" (450mm)
302-1190	19" (480mm)
302-1200	20" (500mm)
302-1210	21" (530mm)
302-1220	22" (550mm)
302-1240	24" (600mm)
302-1260	26" (650mm)
302-1280	28" (700mm)
302-1320	32" (800mm)

# 230 Series Standard Left Hand Unitized Assembly

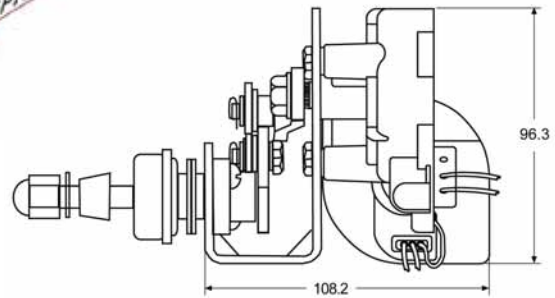
- Sweep angles available from 36° to 118°.
- Drives arms and blades up to 28" (700mm).
- Configurable for radial or pantograph arms.
- Available in 12V and 24V.
- Powerful, adaptable bolt-on unit.
- May be mounted up, down, sideways or diagonally.

## APPLICATIONS

- Rail
- Industrial Cab
- Commercial Vehicles
- Agricultural Vehicles



Shown in CCW to park position

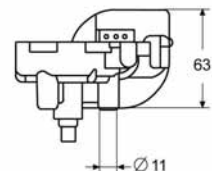
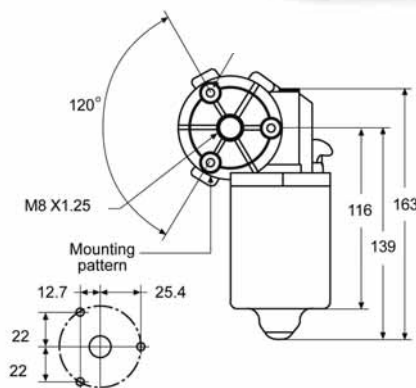
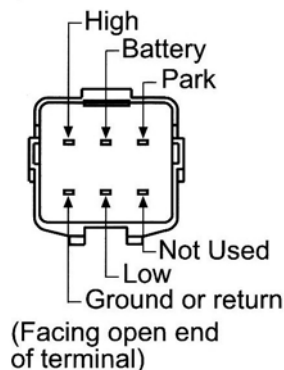


## 230 Series Standard Left Hand Motor

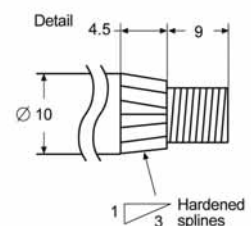
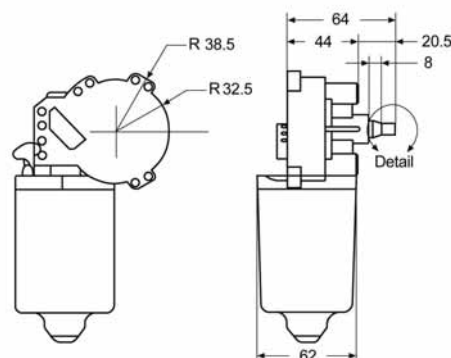
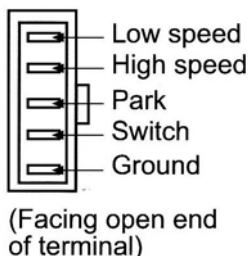
- 30Nm.
- SAE standard durability tested.
- Compact size will retrofit into existing space.
- RFI suppression standard.
- Water-resistant motor and plug connections.
- Available in dynamic park or coast to park.
- Available in 12V or 34V.
- Available in low or high side switched.
- A variety of pigtail adapter cords available.



Wiring terminal for **dynamic park** applications:

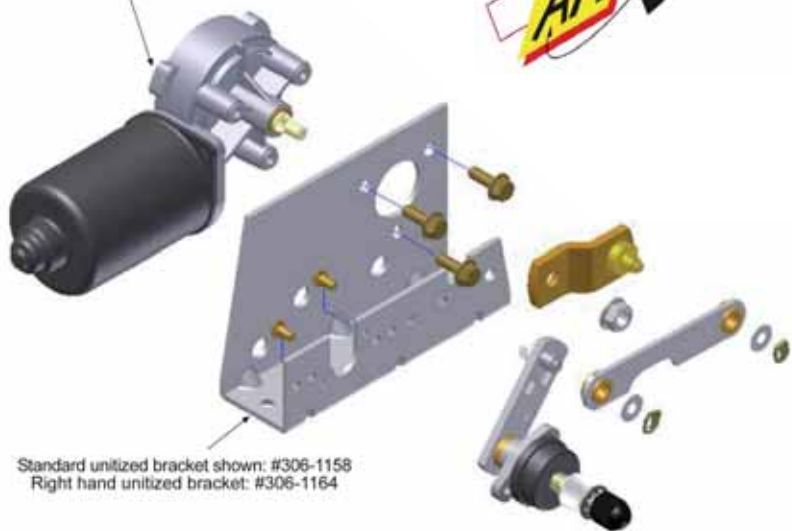


Wiring terminal for **coast to park** applications:



# 230 Series Hardware

See 230 wiper motors page



Hardware Kit #315-1007 (bracket and drive arm not included in kit)



Spring clips #407-1022



Washers #414-1005



Link #307-1022  
3.38" (86mm) center to center



Motor mounting screws #414-1131



10-32 UNF-2B  
Shaft screws #407-1064

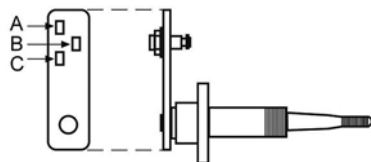


Motor shaft nut #414-1132

## 230 Series Pin-Type Pivot Shafts

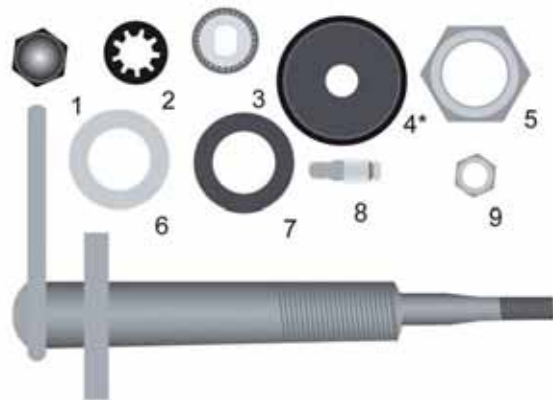
- 17.3mm shaft body diameter fits into 19mm bulkhead hole.
- Lengths determined by "A" reference dimension of shaft body.
- Three pin slots for different sweep angles (A, B and C).
- Stainless steel shaft and components for corrosive environments.

\* All hardware numbered below is included in your shaft assembly order and is available individually.

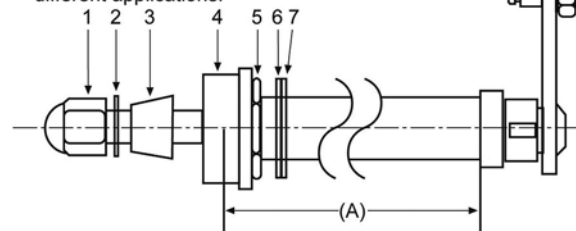


1. 407-1010 black cap nut
2. 407-1023 lockwasher
3. 407-1002 knurl
4. 407-1017 rubber cap\*
5. 407-1007 nut
6. 407-1015 metal washer
7. 407-1012 rubber washer
8. 407-1005 pin
9. 414-1124 locknut

\* Optional 25.4 inside height rubber cap #407-1072



To identify a shaft, measure the pivot body from the base of the mounting flange to the end that protrudes to the wiper arm attachment (A). When considering a new application, this section must pass through the bulkhead and allow mounting with item #5 nut. Items #8 and #9 can be mounted as shown or inverted for different applications.



### Complete Shaft Assemblies

304-1200	16mm
304-1201	25mm
304-1202	32mm
304-1203	51mm
304-1204	64mm
304-1205	76mm

### FAQ

**Q** How do i determine what shaft length I need?

**A** Measure the thickness of material the shaft must pass through on the vehicle. Add on 10mm for the outside holding nut and washers. If pantograph arms are used, add another 10mm. Add the measurements and use the next longer shaft.

**Example:** 12mm steel plate vehicle bulkhead + 10mm + nut and washers + 10mm pantograph = 32mm ~ means you would need the 50mm shaft. The stated shaft length is never the overall length, rather it refers to the portion of the shaft that passes through the vehicle (dimension A).

# Double Arm Wiper Assembly

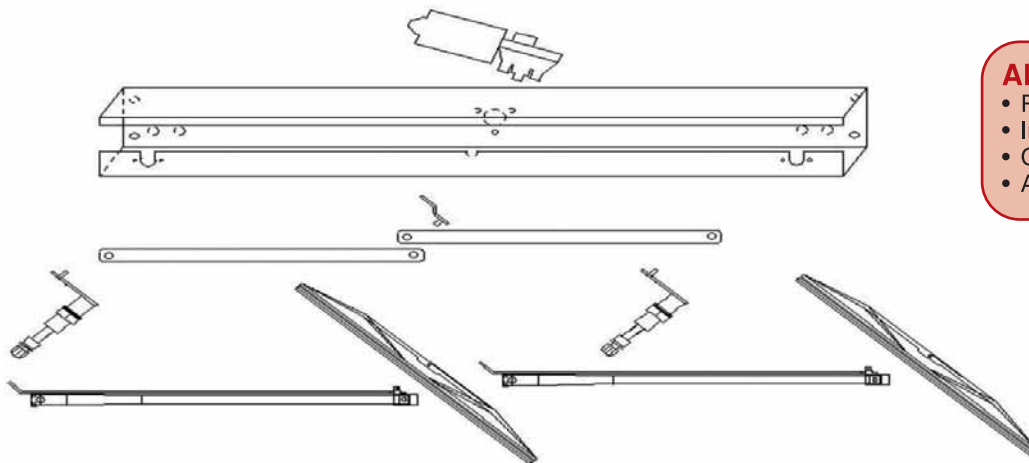
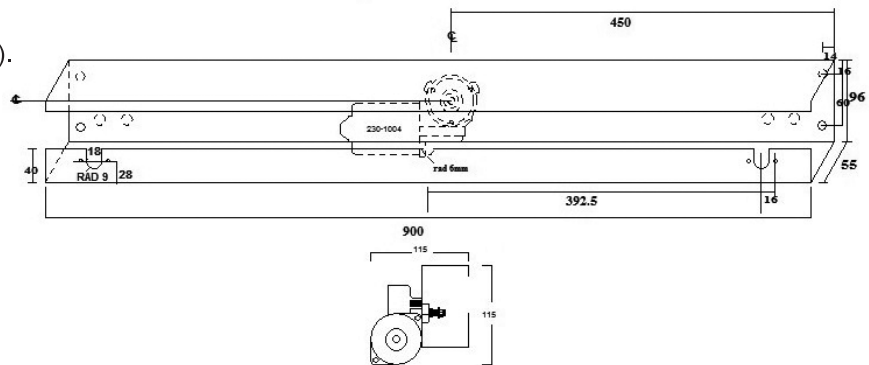
The Prime double arm assembly consists of a single motor mounted on a galvanised channel. The motor operates two arms and blades via linkages contained within the channel.

All that is required is drilling of holes, fitting the assembly and adding the arms and blades.



## Features

- Modular design allows easy fitting without further assembly.
- Parks away from drivers line of vision.
- Above ground motor is ideal for diesel-electric applications.
- Cost effective.
- Maximum screen coverage.
- 12 or 24 Volt available (24V standard).
- 3 assembly sizes available.
- **No hand access to moving parts.**
- Internal circuit breaker.



## APPLICATIONS

- Rail
- Industrial Cab
- Commercial Vehicles
- Agricultural Vehicles

### Technical Features per Screen Assembly

Available voltage	DC:12-24
Starting torque	30Nm
Cycles per minute (Nominal)	40 on low, 55 on high
Operating current draw (no load)	0.4 amps on low, 7 amps on high @ 27 VDC (no load)
Stall current draw	9.3 amps on low, 11.0 amps on high @ 27 VDC
Pivot shaft centres	485mm, 785mm or 890mm
Self Parking	Right or left

# 230 Series Radial and Pantograph Wiper Arms

- Made of corrosion-resistant stainless steel flatwire.

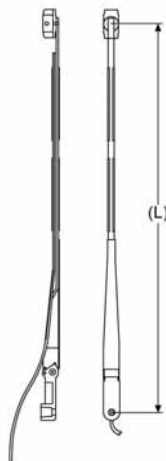
- Pantograph arms require a pantograph adapter and bridge.

- On all arms, specify length and wet or dry.



Radial Arms, Dry	
Part #	Length L
301-0140	14" (355mm)
301-0150	15" (380mm)
301-0160	16" (405mm)
301-0170	17" (430mm)
301-0180	18" (455mm)
301-0190	19" (485mm)
301-0200	20" (510mm)
301-0210	21" (535mm)
301-0220	22" (560mm)
301-0230	23" (585mm)
301-0240	24" (610mm)
301-0250	25" (635mm)
301-0260	26" (660mm)
301-0270	27" (685mm)
301-0280	28" (710mm)

Radial Arms, Wet	
Part #	Length L
301-7140	14" (355mm)
301-7150	15" (380mm)
301-7160	16" (405mm)
301-7170	17" (430mm)
301-7180	18" (455mm)
301-7190	19" (485mm)
301-7200	20" (510mm)
301-7210	21" (535mm)
301-7220	22" (560mm)
301-7230	23" (585mm)
301-7240	24" (610mm)
301-7250	25" (635mm)
301-7260	26" (660mm)
301-7270	27" (685mm)
301-7280	28" (710mm)



Pantograph Arms, Dry	
Part #	Arm Length L / Bridge Width W
301-1140	14" (355mm) / 1.25"
301-1150	15" (380mm) / 1.25"
301-1160	16" (405mm) / 1.25"
301-1170	17" (430mm) / 1.25"
301-1180	18" (455mm) / 1.25"
301-1190	19" (485mm) / 1.25"
301-1200	20" (510mm) / 1.25"
301-1210	21" (535mm) / 1.25"
301-1220	22" (560mm) / 1.25"
301-1230	23" (585mm) / 1.25"
301-1240	24" (610mm) / 1.25"
301-1250	25" (635mm) / 1.25"
301-1260	26" (660mm) / 1.25"
301-1270	27" (685mm) / 1.25"
301-1280	28" (710mm) / 1.25"
301-2240	24" (610mm) / 1.75"
301-2250	25" (635mm) / 1.75"
301-2260	26" (660mm) / 1.75"
301-2270	27" (685mm) / 1.75"
301-2280	28" (710mm) / 1.75"

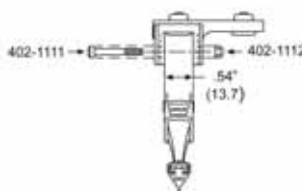
Pantograph Arms, Wet	
Part #	Arm Length L / Bridge Width W
301-3140	14" (355mm) / 1.25"
301-3150	15" (380mm) / 1.25"
301-3160	16" (405mm) / 1.25"
301-3170	17" (430mm) / 1.25"
301-3180	18" (455mm) / 1.25"
301-3190	19" (485mm) / 1.25"
301-3200	20" (510mm) / 1.25"
301-3210	21" (535mm) / 1.25"
301-3220	22" (560mm) / 1.25"
301-3230	23" (585mm) / 1.25"
301-3240	24" (610mm) / 1.25"
301-3250	25" (635mm) / 1.25"
301-3260	26" (660mm) / 1.25"
301-3270	27" (685mm) / 1.25"
301-3280	28" (710mm) / 1.25"
301-4240	24" (610mm) / 1.75"
301-4250	25" (635mm) / 1.75"
301-4260	26" (660mm) / 1.75"
301-4270	27" (685mm) / 1.75"
301-4280	28" (710mm) / 1.75"

## Standard Flex Wiper Blades

- Flexible for flat or curved glass.
- Refillable moulded wiper elements.
- Galvanised, powder-coated frames for corrosion resistance.
- Compatible with 208, 212, 230 and Double driver arms.



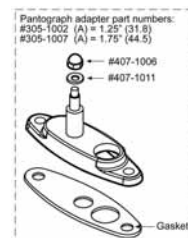
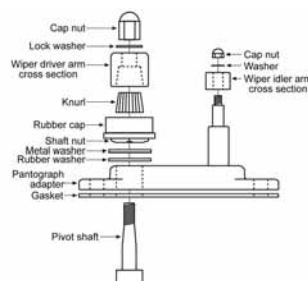
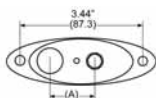
Compatibility Chart	
Motor Series	Max Blade L
208	18" (450mm)
212	22" (550mm)
230	28" (700mm)
Double Driver	32" (800mm)



Part #	Blade Length L
302-1120	12" (300mm)
302-1130	13" (335mm)
302-1140	14" (355mm)
302-1150	15" (380mm)
302-1160	16" (405mm)
302-1170	17" (430mm)
302-1180	18" (455mm)
302-1190	19" (485mm)
302-1200	20" (510mm)
302-1210	21" (535mm)
302-1220	22" (560mm)
302-1240	24" (610mm)
302-1260	26" (660mm)
302-1280	28" (710mm)
302-1320	32" (800mm)

## 230 Series Pantograph Adapters

- Allows the use of a pantograph wiper arm (double arm) on the 230 series unitised assembly.

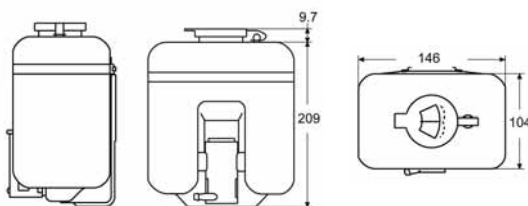


## 2 Litre Washer Bottle

- Available in 12V or 24V.
- Metal spade bracket mount on backside of bottle.
- Snap on lid.
- Uses 4mm inside diameter hose.
- 6.35mm terminals in "T" connector.
- Packaged individually.
- Conforms to SAEJ924B testing.

\* For 12V use part # 312-1038

\*\*For 24V use part # 312-1039.



Pump amp draw:  
Open line - 4.1 amps  
Blocked line - 2.8 amps

Recommended pump circuit protection  
12V - 5 amps  
24V - 3 amps

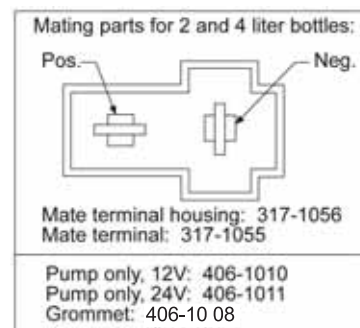


## 4 Litre Washer Bottle

- Available in 12V or 24V.
- 4-point surface mount.
- Snap on lid.
- Uses 4mm inside diameter hose.
- 6.35mm terminals in "T" connector.
- Pressure leak tested.
- Packaged individually.
- Conforms to SAEJ924B testing.

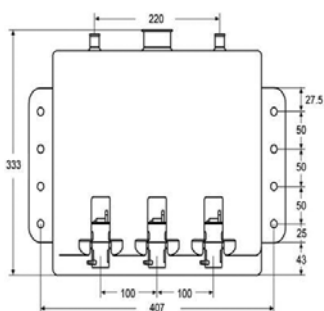
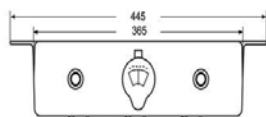
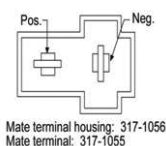
\* For 12V use part # 312-1035

\*\*For 24V use part # 312-1036



## 10 Litre Washer Bottle

- Available in 12V or 24V.
- Configurable for 1, 2 or 3 pumps.
- Multiple point surface mounting holes.
- Snap on lid.
- Uses 4mm inside diameter hose.
- 6.35mm terminals in "T" connector.
- Pressure leak tested.
- Packaged individually.



Pump amp draw:  
Open line - 4.1 amps  
Blocked line - 2.8 amps

Recommended pump circuit protection  
12V - 5 amps  
24V - 3 amps

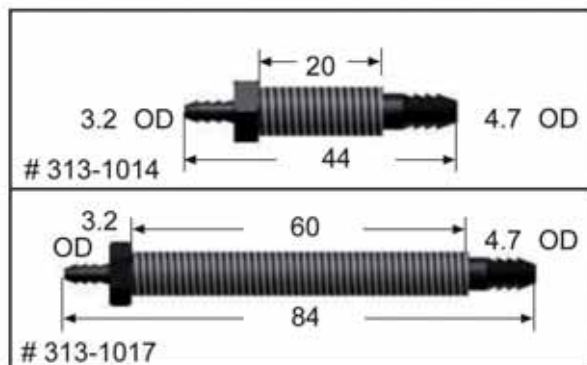


Part #	Volts	# of Pumps
312-1201	12	1
312-1202	12	2
312-1203	12	3
312-2401	24	1
312-2402	24	2
312-2403	24	3

Pump only - 12V: 406-1010  
Pump only - 24V: 406-1011  
Grommet: 406-1008

# Bulkhead Fittings and Hose Connectors

- Brass fittings to pass washer fluid through various bulkhead thickness.



# 404-1001 Hose T  
4.7 x 4.7 x 4.7



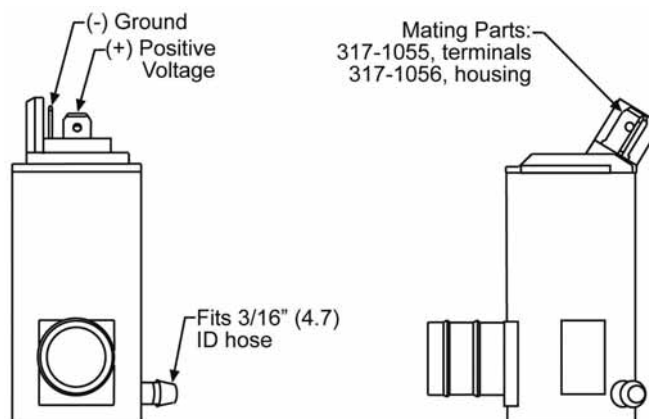
# 406-1014 Check valve  
For use with 4mm ID hose

# 313-1025 90° Bulkhead fitting, 20mm

## Pumps

- Available in 12V and 24V.
- Delivery volume (with free flow rate): 135mL displaced during 3 seconds of actuation.
- Delivery pressure of 30psi (2.11 kgf/cm²).

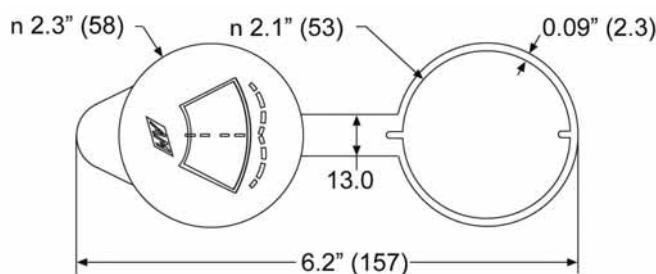
Part # 406-1010 12V Pump  
Part # 406-1011 24V Pump



## Lid

- Made of plastic.

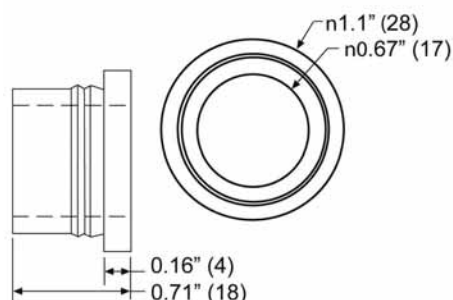
Part # 406-1009 Washer Bottle Lid



## Grommet

- Made of EPDM.

Part # 406-1008 Washer Bottle Grommet



# LP Series

## Marine Windscreen Wipers

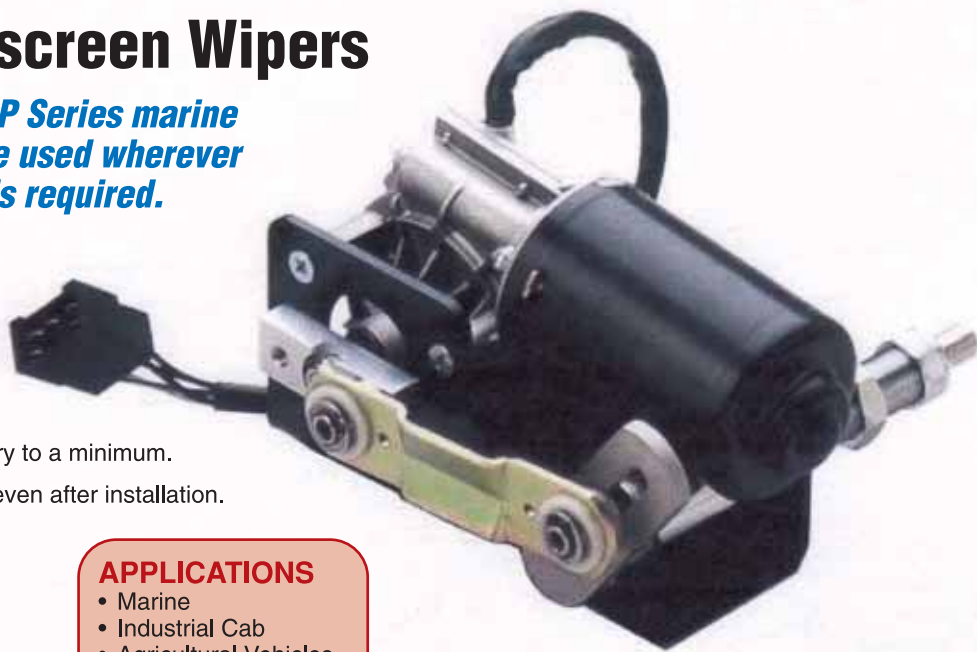
**APPLICATION:** Prime LP Series marine windscreen wipers are used wherever corrosion resistance is required.

### ADVANTAGES:

- 12 or 24 Volt.
- Low current draw.
- Quick and easy to install.
- Adjustable arm keeps inventory to a minimum.
- Wipe angle easily adjustable even after installation.
- Full system capability.
- 42Nm starting target.
- Self parking, left or right.
- CE certified.

### APPLICATIONS

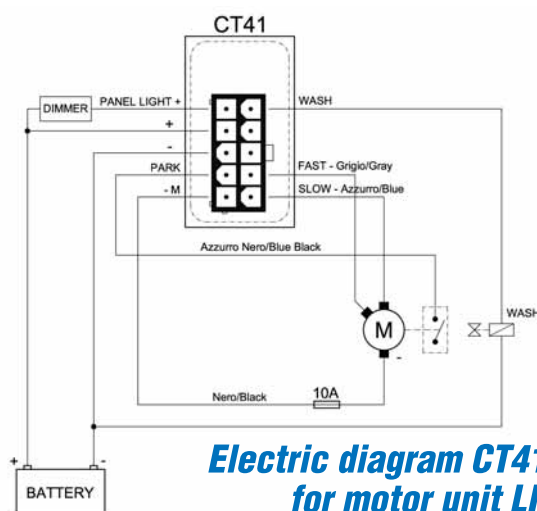
- Marine
- Industrial Cab
- Agricultural Vehicles



The motor and bracket assembly generates the alternating movement of the wiper arm via cranks and a linkage arrangement.

The motor has a high starting torque, two speed capability and an internal self parking device, which returns the arm and blade to the same position each time the unit is switched off, provided the correct switch is installed.

The arm length, park position and wiping angle can easily be changed, even after installation, without the need to remove the assembly from the vessel.



Type	For Wall Thickness	Voltage
LP1220	20mm ± 5mm	12V
LP1240	40mm ± 5mm	12V
LP1260	60mm ± 5mm	12V
LP1280	80mm ± 5mm	12V
LP12100	100mm ± 5mm	12V
LP2420	20mm ± 5mm	24V
LP2440	40mm ± 5mm	24V
LP2460	60mm ± 5mm	24V
LP2480	80mm ± 5mm	24V
LP24100	100mm ± 5mm	24V
Available Rated Voltage		DC: 12V & 24V
Power Consumption		Nominal: 85W on high (no load)
Wiping Angle Available		From 40 to 90 degrees
Starting Torque		42Nm
Cycles per Minute (Nominal)		70-90 (without load)
Length of Threaded Bushing		For wall thickness 20-100 ± 5mm
Weight		3.3Kg



LP Series	P/N	Length	Saddle Width
Pantograph arm	L97P	Adjustable from 550-800mm (supplied @ 800)	16mm
Radial arm	L97F	Adjustable from 550-800mm (supplied @ 800)	16mm
Blade 500mm	BH500	500mm	Suit 16mm Saddle
Blade 550mm	BH550	550mm	Suit 16mm Saddle
Blade 600mm	BH600	600mm	Suit 16mm Saddle
Blade 650mm	BH650	650mm	Suit 16mm Saddle
Blade 700mm	BH700	700mm	Suit 16mm Saddle
Blade 800mm	BH800	800mm	Suit 16mm Saddle

# E Series

speich

## Marine Windscreen Wipers

**APPLICATION:** *Speich Nautic marine windscreen wipers are used wherever corrosion resistance is required.*

### ADVANTAGES:

- 12 or 24 Volt.
- Low current draw.
- Quick and easy to install.
- Adjustable arm keeps inventory to a minimum.
- Wipe angle easily adjustable.
- Full system capability.
- CE certified.



### APPLICATIONS

- Marine
- Industrial Cab
- Agricultural Vehicles

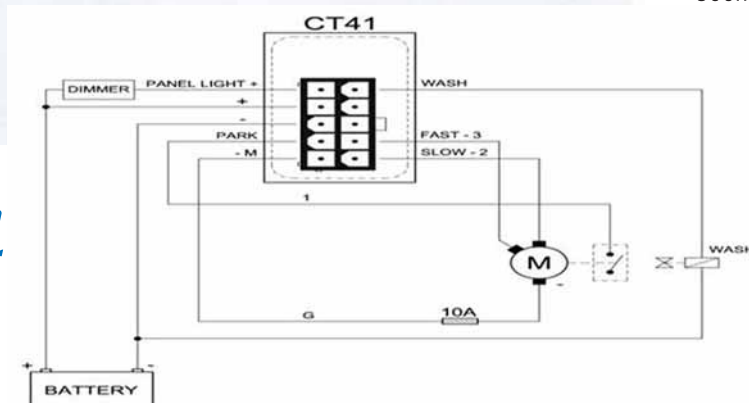
Type	For Wall Thickness	Voltage
E1238	5-12mm	12V
E1264	15-35mm	12V
E1290	38-60mm	12V
E2438	5-12mm	24V
E2464	15-35mm	24V
E2490	38-60mm	24V
Available Rated Voltage		DC: 12V & 24V
Power		Nominal: 40W on high speed (no load)
Wiping Angle Available		40, 50, 60, 70, 80, 90, 100 & 110 degrees
Starting Torque		10Nm
Cycles per Minute (Nominal)		40 fitted with 550mm arm + 510mm blade
Length of Threaded Bushing		For wall thickness 12-35-60mm
Weight		1.2Kg



Stainless steel arms are available in radial or pantograph wipe pattern and are adjustable from 280mm to 550mm.

Flexible blades are available in the following lengths: 280mm  
330mm  
400mm  
450mm  
500mm

**CT41 wiring diagram  
for E-Series motor**

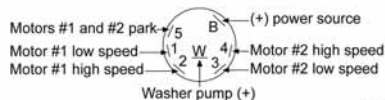


# Wiper Switches

- 2 speed.
- Twist knob.

## #311-1017

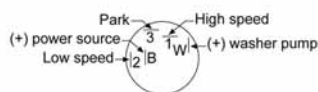
- To operate two coast to park motors.
- Push-to-wash.
- Without circuit breaker.



\*Ground the motor and washer pump

## #311-1022

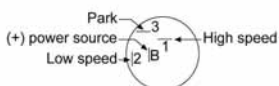
- To operate one coast to park motor.
- Push-to-wash.
- Internal circuit breaker.



\*Ground the motor and the washer pump

## #311-1023

- To operate one coast to park motor.
- Without circuit breaker.

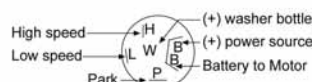


\*Ground the motor



## #311-1019

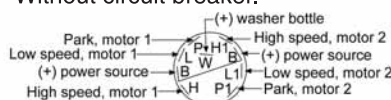
- To operate one dynamic park motor.
- Push-to-wash.
- Without circuit breaker.



\*Ground the motor and washer pump

## #311-1030

- To operate two dynamic park motors.
- Push-to-wash.
- Without circuit breaker.



\*Ground the motors and washer pump

**Note:** Coast to park and dynamic park switches are not interchangeable

# Delay Switches

- 2 speed, intermittent delay.
- Twist knob.
- Die-cast.
- Push to wash feature - 3 wipes after release of button.

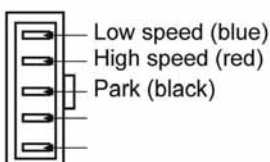
## #311-1006

- Operates one 12V dynamic park or coast to park motor.
- Operating range: 9VDC-16VDC.
- Rotary switch and push switch actuation: 20k cycles min.
- Motor drive" 15A per motor continuous, washer circuit: 3A.
- Short circuit proof.
- Microprocessor controlled, solid state relay, current limit sense circuit, reverse polarity protected.
- \* Ground the motor and washer pump.

### Switch connector - Coast to park motors

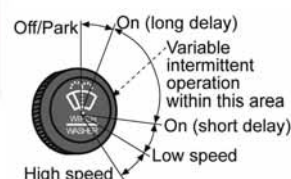
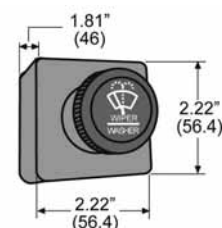
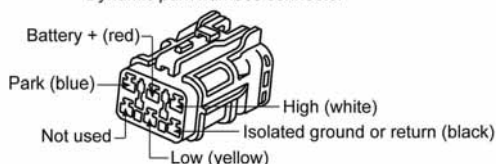
Yellow wire - low speed  
White wire - high speed  
Blue wire - park  
Black wire - case ground  
Red wire - pos. power source  
Brown wire - pos. washer pump

#### Coast to park motor connector



\*Case ground

#### Dynamic park harness connector



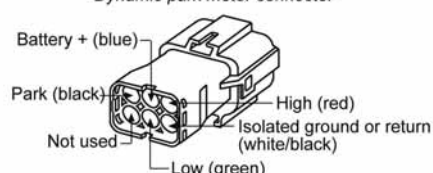
## #311-1009

- Same as 311-1006, only operates one 24V motor.
- Operating range: 18VDC-32VDC.

### Switch connector - Dynamic park motors

Yellow wire - low speed  
White wire - high speed  
Blue wire - park  
Black wire - ground  
Red wire - pos. power source  
Brown wire - pos. washer pump

#### Dynamic park motor connector

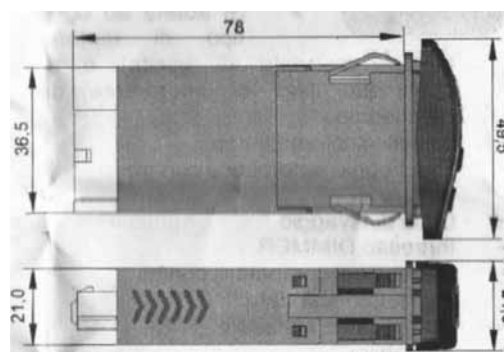
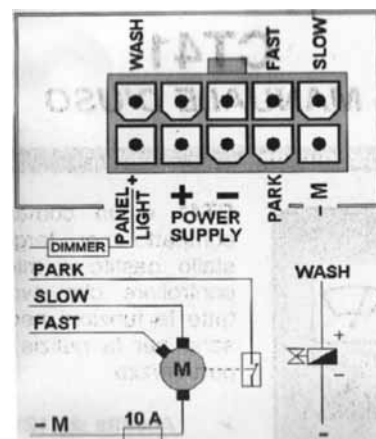


**Note:** Coast to park and dynamic park switches are not interchangeable

# CT41

CT41 is a microcontroller based wiper control for operating one wiper motor; it provides all the functions for a proper windscreen cleaning.

- Voltage supply: 12 or 24 Volt.
- It fits any DC motor (see output current) and any kind of parking switch.
- Three internal delays.
- Self parking with dynamic brake.
- Wipe/wash program.
- Dimmer input.
- Standard switch size compatible.
- Easy to install and to use.
- Reliable.

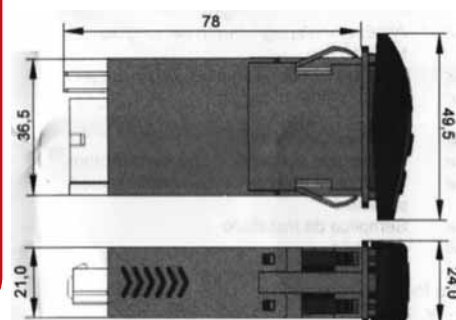
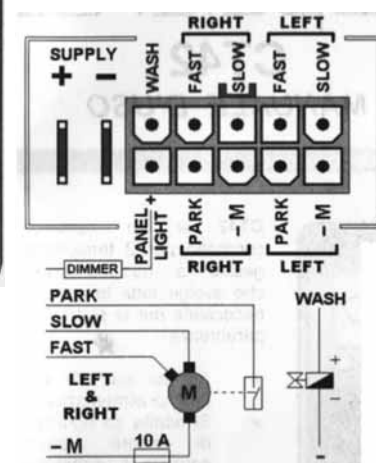


## SPEICH CT41

Voltage supply	10V to 30V DC
Protection	4 Amps PTC
Stand-by current	Less than 20 mA
Polarity inversion	Protected
Motor - output current	Single or double speed - 4 amps max
Input	1 parking switch (open in park position) Dimmer (connect to + supply if not used)
Output	1 slow speed - SLOW 1 high speed - FAST (if 2 speed motors) 1 wash pump (positive pole)
Functions	3 intermittent settings 2 continuous speeds, slow and high speed Wash / wipe program
Connections	10 poles connector
Case	ABS black
Working temperature	-10°C / +50°C
Storage temperature	-20°C / +70°C

# CT42

The same as CT41 but operates 2 motors in unison.



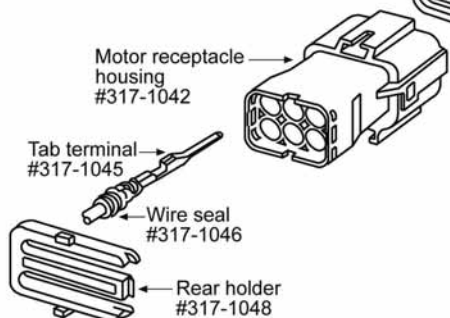
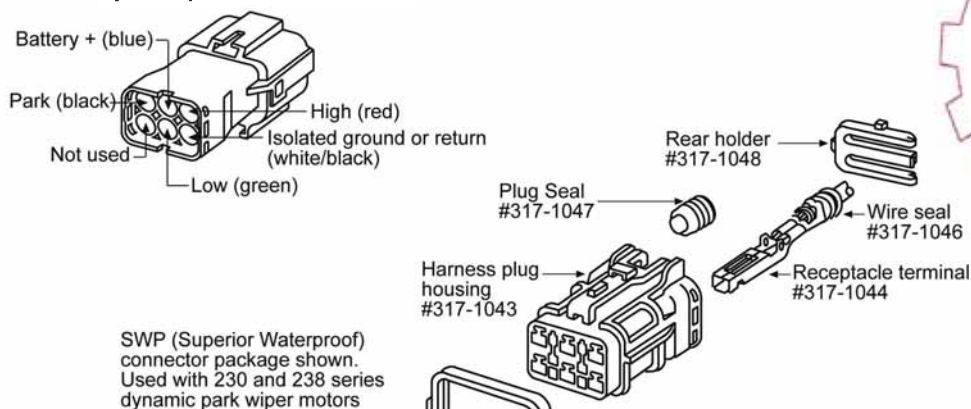
## SPEICH CT42

Voltage supply	10V to 30V DC
Protection	4 Amps PTC for each motor
Stand-by current	Less than 20 mA
Polarity inversion	Protected
Motor - output current	Single or double speed - each motor 4 amps max
Input	1 parking switch (open in park position) Dimmer (connect to + supply if not used)
Output	2 slow speed - L and R SLOW 2 high speed - L and R FAST (if 2 speed motors) 1 wash pump (positive pole)
Functions	3 intermittent settings 2 continuous speeds, slow and high speed Wash / wipe program
Connections	10 poles connector - 2 male 6.3mm fast-on
Case	ABS black
Working temperature	-10°C / +50°C
Storage temperature	-20°C / +70°C

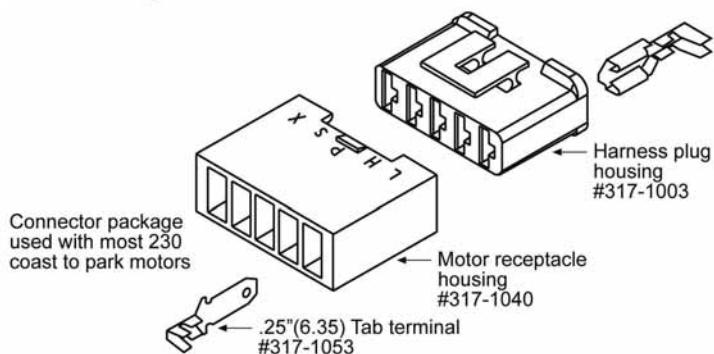
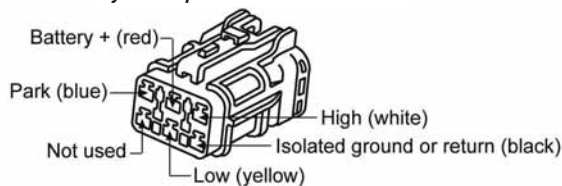
# 230 and 238 Motor Connectors



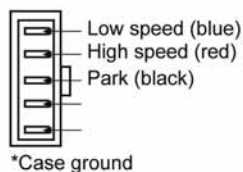
## Dynamic park motor connector



## Dynamic park harness connector



## Coast to park motor connector



## Which Switch Do I Need?

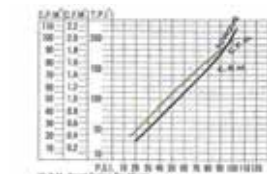
Motor #	2 Speed 1 Motor	2 Speed 2 Motors	Delay 1 Motor	Delay 2 Motors
E Series			CT41	CT 42
LP Series			CT41	CT42
212 Series	311-1022	311-1017	311-1006	311-1026
230-1001	311-1019	311-1030	311-1006	311-1027
230-1002	311-1022	311-1017	311-1006	311-1026
230-1003	311-1019	311-1030	311-1006	311-1028
230-1004	311-1019	311-1030	311-1009	311-1028
230-1005	311-1022	311-1017	311-1009	
230-1006	311-1019	311-1030	311-1009	311-1028
230-J791	311-1019	311-1030	311-1006	311-1027
230-J652	311-1022	311-1017	311-1006	311-1026
230-J714	311-1022	311-1017	311-1006	311-1026
230-J661	311-1022	311-1017	311-1009	311-1026
235/2D-1	311-1019	311-1030	311-1009	311-1028
238/2P Assembly	311-1019	311-1030	311-1009	311-1028
238-1002	311-1019	311-1030	311-1006	311-1027
238-1003	311-1019	311-1030	311-1009	311-1028
238-1004	311-1019	311-1030	311-1006	311-1027
238-1005	311-1019	311-1030	311-1009	311-1028

# Air Push Motor

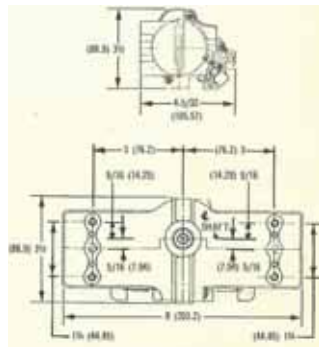
Here's the heavy-duty motor built to deliver powerful, dependable wiper action under severe operating conditions. Requires little maintenance. Designed for use with extra large windshields and for high speed travel. Non-corrosive cast-aluminium body with very few moving parts. Direct drive recommended generally for 25" arms, with 20" heavy duty blades. Additional power through linkage increases maximum to 32" arms and 25" blades. Arc or pantograph sweep pattern.

## FEATURES:

- Greater torque for the largest arms and blades.
- Smoother and quieter operation.
- Less maintenance.
- Longer life due to improved cylinder surfaces.
- More road time, less down time.



Bore: 2.125 in.  
Air Consumption: 2.2 CFM at 100 psi.  
Oscillation Range: 40° to 140°  
Torque (Calculated): 22 ft. lbs. at 100 psi.  
Increase in Torque Through Linkage: Approximately 50%  
Weight: 3 lbs.  
Operating Pressure: 30 to 105 psi.



## APPLICATIONS

- Rail
- Industrial Cab
- Commercial Vehicles
- Agricultural Vehicles

# HP-200 Air Wiper Motor



The Sprague HP-200 is the second in a series of a new generation of air wiper motors. Designed for high efficiency and dependability to provide long life performance for the most demanding wiper system.

The HP-200 had been durability tested for a minimum of 4.5 million cycles and employs the same valving circuitry as the HP-100 which has been field tested and in production for many years.

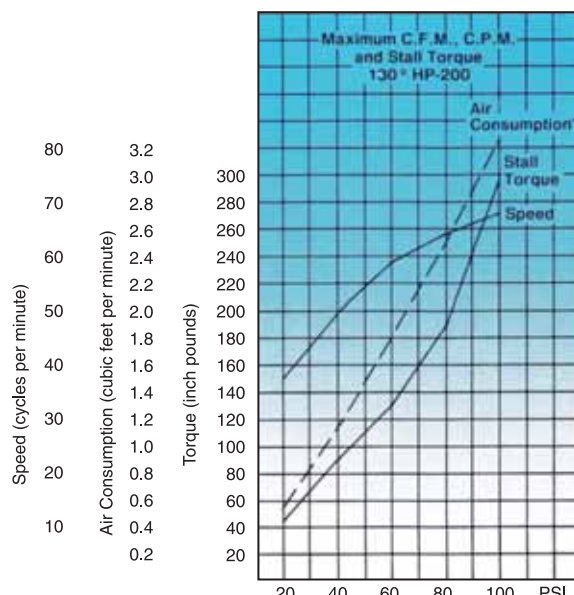
To ensure that Sprague motors will deliver peak performance, every motor is pre-qualified by a cycling period and is 100% tested for wiper angle, speed, park position and internal and external leakage in addition, the shaft to gear welments and torque tested.

The HP-200 motor will replace Sprague Super Challenger and Air Push II Series motors, as well as some specific Trico systems.

## FEATURES:

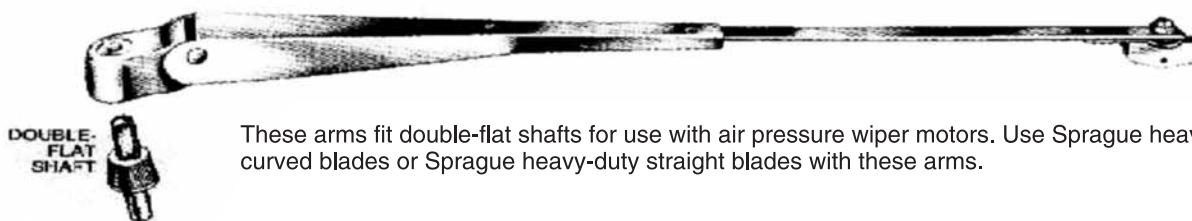
- Aluminium and zinc materials to add strength, durability, and less weight at 33oz.
- Only 4 moving parts for simplicity and maximum service life.
- Rack and pinion power train for maximum strength.
- Simplified valving for positive reversal through pneumatic mechanical action.
- Delrin\* and Teflon Acetyl internal valve parts for long life and resistance to contaminants.
- Intermittent wiper feature available.
- Available in 3/8" or 5/8" diameter motor shaft.

\* Trademark of DuPont Corporation



# Heavy-Duty Wiper Arm

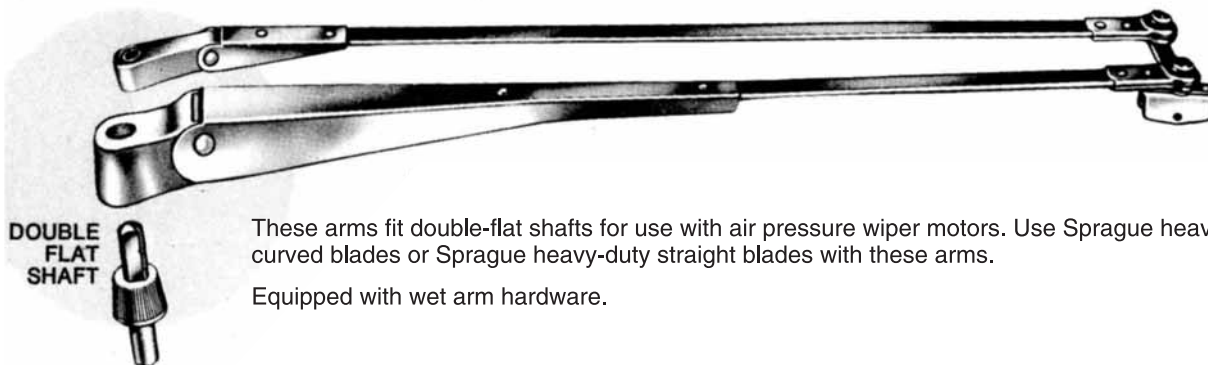
## (Standard Arc Type)



These arms fit double-flat shafts for use with air pressure wiper motors. Use Sprague heavy-duty curved blades or Sprague heavy-duty straight blades with these arms.

# Sprague Heavy-Duty Wiper Arms

## (Pantograph Type)

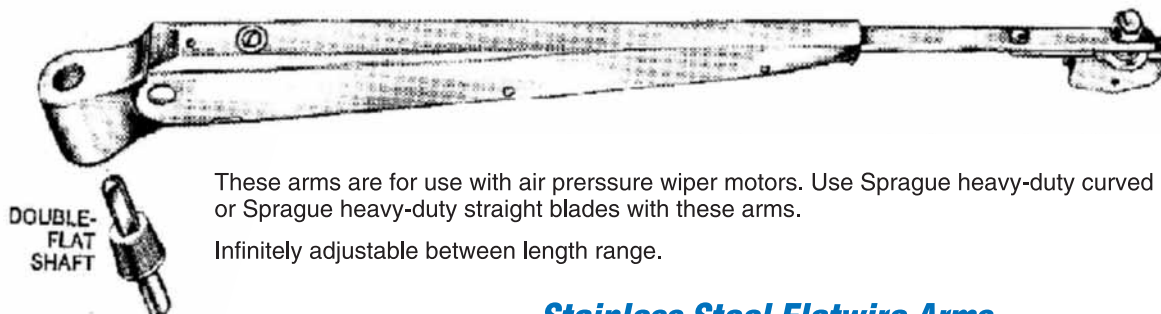


These arms fit double-flat shafts for use with air pressure wiper motors. Use Sprague heavy-duty curved blades or Sprague heavy-duty straight blades with these arms.

Equipped with wet arm hardware.

# Medium-Duty Wiper Arms

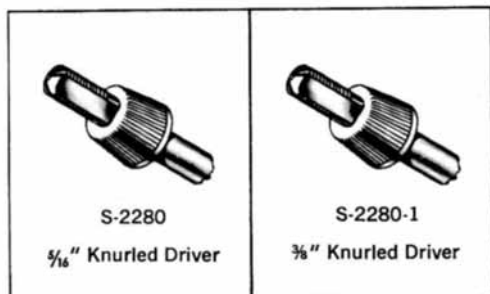
## (Adjustable Length Models)



These arms are for use with air pressure wiper motors. Use Sprague heavy-duty curved blades or Sprague heavy-duty straight blades with these arms.

Infinitely adjustable between length range.

### Stainless Steel Flatwire Arms



Part #	Description	Length
C-1503-14	Arc Type Arm	355mm
C-1503-16	Arc Type Arm	405mm
C-1503-18	Arc Type Arm	460mm
C-1503-20	Arc Type Arm	510mm
C-1503-22	Arc Type Arm	560mm
301-1140	Pantograph Arm	355mm
301-1018	Pantograph Arm	405mm
301-1022	Pantograph Arm	430mm
301-1019	Pantograph Arm	460mm
301-1020	Pantograph Arm	510mm
310-1024	Pantograph Arm	560mm
301-1030	Pantograph Arm	610mm
301-1031	Pantograph Arm	670mm
LE10342	Adjustable Arc Type	330-480mm
LE10421	Adjustable Arc Type	260-390mm

Also suitable for use with AM Equipment 230 Series assemblies

# Flat Blade



# Flexible Blade



## Stainless Steel Blades

Part #	Description	Length
C-1100-14	Flat Blade	355mm
C-1100-16	Flat Blade	405mm
C-1100-18	Flat Blade	460mm
C-1100-20	Flat Blade	510mm
C-1100-22	Flat Blade	560mm
C-1140-14	Flexible Blade	355mm
C-1140-16	Flexible Blade	405mm
C-1140-18	Flexible Blade	460mm
C-1140-20	Flexible Blade	510mm
C-1140-22	Flexible Blade	560mm

Suitable for use with 1/4" saddle arms

# Sprague Pneumatic Washer Systems

*Washer Kits & Accessories*



**Econo #9 & Bracket**



**Bulkhead Fittings**



**Econo #10**



**GW-58 Pump**

<b>Econo #9</b>	
Capacity	1 US Gallon
Round Reservoir	
Dimensions	6" Diam
	9.75" High
Bracket	GW7
Pump Assembly	GW58
Replacement Lid	GW123
<b>Econo #10</b>	
Capacity	3 US Quarts
Rectangular Reservoir	
Dimensions	5.5" Long x 4" Wide
	10.25" High
Bracket	GW85
Pump Assembly	GW58
Replacement Lid	GW123
<b>Spray Kleer #15</b>	
Capacity	5 US Gallons
Square Reservoir, Twin Outlets	
Dimensions	12" Long x 9" Wide
	13 1/16" High
Pump Assembly	GW58 - Two
<b>Parts &amp; Accessories</b>	
Washer Control Valve	K2
Round Reservoir	W97
Rectangular Reservoir	W407
Hose 3/16"	W22
Hose 1/4"	W78
Nozzle Assembly	GW103-1
Nozzle Assembly	GW103
Thru Skin Connector	GW24
Thru Skin Connector	GW24-1



## Heavy Duty Commercial Vehicle Range



Trico's brilliant new TBHD blades are the only true universal wiper blades made specifically for trucks and light commercial vehicles.

Available in 7 blade lengths from 400mm to 700mm.

Comprehensive range of adaptors included to cover 95% of trucks and light commercial vehicles.

100% natural rubber inserts.

The first true universal replacement wiper blades designed specifically for commercial vehicles.

High quality steel frame with 'dual electrostatic paint finish' for long life.

Range will assist in reducing inventory, increasing stock turns and reducing the risk of lost sales.



### Commercial Vehicle Range



**Light Commercial**



**Medium Commercial**



**Heavy Commercial**

**NEW**



### PRODUCT RANGE

TB400HD 400mm Multi-fit Assembly  
TB450HD 450mm Multi-fit Assembly  
TB500HD 500mm Multi-fit Assembly  
TB560HD 560mm Multi-fit Assembly  
TB610HD 610mm Multi-fit Assembly  
TB650HD 650mm Multi-fit Assembly  
TB700HD 700mm Multi-fit Assembly

### WIPER ARM TYPES



Large Hook (9x4)



Hook (8x3, 9x3)



Bayonet (7mm, 9.5mm)



Pin On Arm



Pin On Blade



Bridge (8mm, 14mm, 16mm)

# Trico TECH

**Trico TECH uses advanced flexible beam blade technology to give superior wiper performance and sleek look for your vehicle.**



Trico TECH is the next generation in flexible beam blade design, offering exceptional performance, durability and adaptability through the cleverly designed SWIFT™ Easy Connection Technology. All Trico TECH blades feature a UV stabilised, 100% natural rubber element which provides quiet operation and superior wipe quality. Trico TECH outshines all other blades in its category.

Trico TECH's patented SWIFT™ Easy Connection Technology provides a unique combination of simple part selection and ease of installation. The range consists of just 10 part numbers, so finding the right blade for any suitable vehicle is a breeze. Each Trico TECH blade is supplied with a range of multi-fit adapters, enabling fast and easy installation on hook, pinch tab, push button and side pin wiper arm mounts. The low profile off-set hook mounting adaptor can be reversed to suit above or below arm mounting. The flexible mounting system is a major advance, making it possible for many older vehicles to be updated to the latest technology whilst maintaining a low profile and correct arm-to-screen pressure.

## SPECIFICATIONS:

- Frameless design.
- Patented sprung steel beam.
- Swift easy connection technology.
- UV stabilised for longer life.

**SWIFT™**

SWIFT™ Easy Connection Technology provides a unique combination of simple part selection and ease of installation.

**B.** Suits both Pinch Tab & Push Button Mounting.

**C.** Suits Side Pin Mounting.

**D.** Suits all Hook Mount vehicles.  
Note: Low profile adaptor can be configured to sit above or below the wiper arm

**HOOK MOUNT ADAPTOR**

- Reversible hook adaptor can be switched to suit 'above' or 'below' arm mounting.
- Maintains correct arm attack angle for even pressure.
- Reduces wind lift at highway speeds.

Under Hook Mounting

Over Hook Mounting



Part #	Description	Pack
TEC400	Trico TECH Beam Blade 400mm (16")	Single
TEC425	Trico TECH Beam Blade 425mm (17")	Single
TEC450	Trico TECH Beam Blade 450mm (18")	Single
TEC475	Trico TECH Beam Blade 475mm (19")	Single
TEC500	Trico TECH Beam Blade 500mm (20")	Single
TEC525	Trico TECH Beam Blade 525mm (21")	Single
TEC560	Trico TECH Beam Blade 560mm (22")	Single
TEC610	Trico TECH Beam Blade 610mm (24")	Single
TEC650	Trico TECH Beam Blade 650mm (26")	Single
TEC700	Trico TECH Beam Blade 700mm (28")	Single

# TX Series Heavy Duty Wiper Blades



Part number & Length	Blades fit these arm types	Wiper Blade Illustration & Refill Part number
<b>TX450A</b> 18" (45cm)		
<b>TX500A</b> 20" (50cm)		Metal back & Plastic back refills to suit: TTR610 - 6mm Metal Refill TRN610 - 6mm Plastic Refill
<b>TX550A</b> 22" (55cm)		Metal back & Plastic back Refills to suit: A6031 - 9.5mm Metal Refill TRP1000 - 8 / 9.5 Multi-Fit Plastic Refill
<b>TX600A</b> 24" (60cm)		
<b>TX650A</b> 26" (65cm)		
<b>TX700A</b> 28" (70cm)		
<b>TX900H</b> 36" (90cm)		
<b>TX600</b> 24" (60cm)		
<b>TX650</b> 26" (65cm)		
<b>TX700</b> 28" (70cm)		Metal back & Plastic back Refills to suit: A6031 - 9.5mm Metal Refill TRP1000 - 8 / 9.5 Multi-Fit Plastic Refill
<b>TX801</b> 32" (80cm)		
<b>TX800</b> 32" (80cm)		
<b>TX900</b> 36" (90cm)		
<b>TX1000</b> 40" (100cm)		Metal back & Plastic back Refills to suit: A6034 - 9.5mm Metal Refill TRP1000 - 8 / 9.5 Multi-Fit Plastic Refill

# THD600 Series Heavy Duty Wiper Blades



Trico heavy duty wiper blades are built to withstand heavy commercial usage and are available in sizes up to 71cm (28") long. Refills for curved screen blades are available in a complete range of sizes. All Trico heavy duty blades and refills use 100% natural rubber.

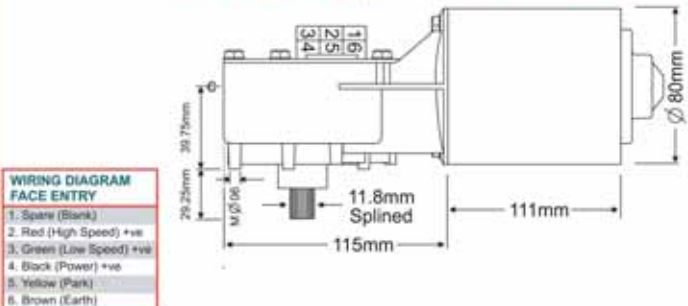
	To Suit 14mm Clip Width. 
<b>THD602 SERIES</b> Part Numbers: <b>THD602-56</b> ( 56cm/22"), & <b>THD602-71</b> (71cm/28").	
	To Suit 6mm Clip Width. 
<b>THD612 SERIES</b> Part Numbers: <b>THD612-56</b> ( 56cm/22"), <b>THD612-61</b> (61cm/(24").	
<b>Refills to suit THD602 &amp; THD612 SERIES:</b>	
8mm Metal Back break-off refills - (71cm (28") long, break of to 53cm 21")	<b>Part No: TRM710</b> (Pair pack) <b>Part No: MB1028</b> (Box of 10)
8mm Plastic Back cut-off refills - (71cm (28") long, cut-off to any size)	<b>Part No: TRP710</b> (Pair pack) <b>Part No: TRP710-10</b> (Box of 10)
	To Suit 6mm Clip Width. 
<b>THD609 SERIES</b> Part Numbers - <b>THD609-36</b> (36cm/14"), <b>THD609-41</b> (41cm/16"), <b>THD609-46</b> (46cm/18") & <b>THD609-51</b> (51cm/20").	
	To Suit 14mm Clip Width. 
<b>THD610 SERIES</b> Part Numbers - <b>THD610-36</b> (36cm/14"), <b>THD610-41</b> (41cm/16"), <b>THD610-46</b> (46cm/18") & <b>THD610-51</b> (51cm/20").	
<b>Refills to suit THD609 &amp; THD610 SERIES:</b>	
Metal back refills 12.5mm wide - fixed length -	<b>P/N: 6136</b> = 36cm (14") <b>P/N: 6141</b> = 41cm (16") <b>P/N: 6146</b> = 46cm (18") <b>P/N: 6151</b> = 51cm (20")
<b>100%</b> Natural Rubber ✓	

# Electric Motors

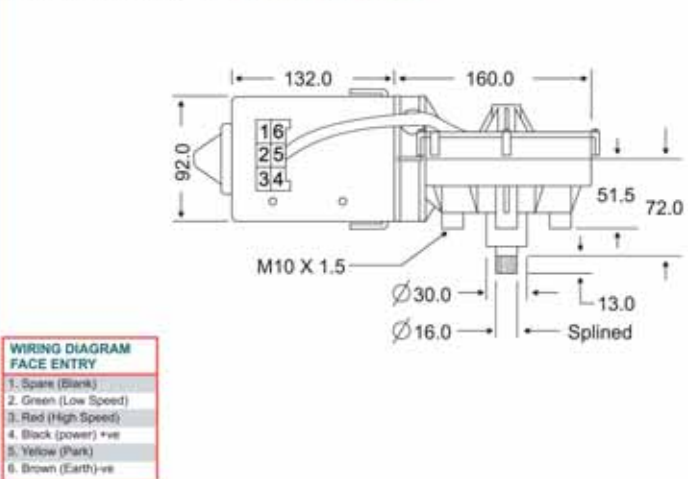


P/N 75325 "Colt" 24V Motor - 65Nm Torque

P/N 75365 "Colt" 24V Motor - 65Nm Torque complete with 75367 Motor Crank



P/N 78018 "Brumby" 24V Motor 105NM Torque



## APPLICATIONS

- Bus & Coach
- Rail
- Marine
- Industrial Cab
- Commercial Vehicles
- Agricultural Vehicles

## Trico Premium Blade & Refill Merchandiser for Truck & LCV

**New from Trico - Part # TRR-02HD**

Australia's first '1-stop-shop' for fast moving commercial vehicle wiper blades & refills.

Trico's new ultra compact merchandiser rack is just 460mm wide and can be mounted on peg board or fixed directly to a wall.

Featuring Trico's brilliant new 'TB-HD' blade range with comprehensive adaptor package.

### STOCK INCLUDED:

- 1 x TTR610-20 Twin Rail 6mm refills (PK20).
- 1 x TTR710-10 Twin Rail 8mm refills (PK10).
- 2 x TB400HD Blade Assemblies.
- 2 x TB450HD Blade Assemblies.
- 2 x TB500HD Blade Assemblies.
- 2 x TB560HD Blade Assemblies.
- 2 x TB610HD Blade Assemblies.
- 2 x TB650HD Blade Assemblies.
- 2 x TB700HD Blade Assemblies.

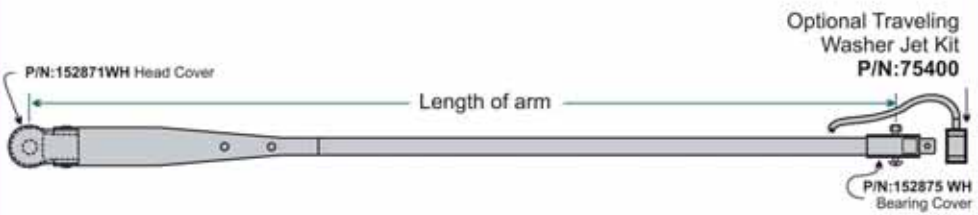
**Trico TB-HD Blades are the only truly universal wiper blades designed specifically for Trucks and Light Commercial Vehicles**



# Heavy Duty Conventional Wiper Arms

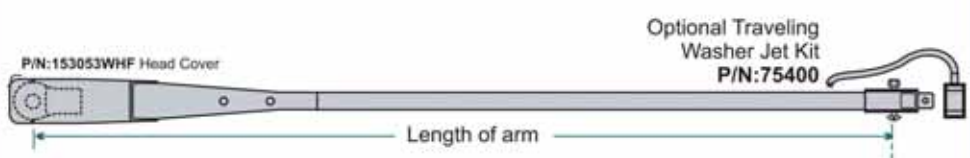


## TCA620 Series - Knurled Driver Head



Part Number	Length	Suits 16 mm tapered Knurled Driver with clamp down nut.	14mm Blade Saddle	Adjustable to Left or right Crank to 17° Maximum
TCA620-41	46cm Long			
TCA620-46	51cm Long			
TCA620-51	56cm Long			
TCA620-56	61cm Long			
TCA620-61				

## 63000 Series - DIN Tapered Head



Available Lengths  
 63000-710-3.5L, 63000-710-3.5R, 63000-750-3.5L, 63000-750-3.5R  
 63001-56, 63001-71, 63001-75

Part No:	Suits DIN tapered shaft	DIN Taper	Blade Saddle	Also available with a crank
63000		12 DIN	22mm	
63001		12 DIN	14mm	



# Flat Screen Wiper Blades

Trico heavy duty flat screen wiper blades are built to withstand heavy commercial use and are available in a number of lengths.  
 Flat screen blades cannot be serviced with a refill.  
 All Trico flat screen blades use 100% natural rubber.



## THD607 SERIES

Part Numbers -  
 THD607-25 (25cm/10"), THD607-28 (28cm/11"), THD607-30 (30cm/12"),  
 THD607-33 (33cm/13"), THD607-36 (36cm/14"), THD607-38 (38cm/15"),  
 THD607-43 (43cm/17"), THD607-46 (46cm/18"), THD607-51 (51cm/20"),  
 THD607-56 (56cm/22"), THD607-61 (61cm/24").



## THD605 SERIES

Part Numbers - THD605-46 (46cm/18"), THD605-51 (51cm/20"),  
 THD605-56 (56cm/22"), & THD605-61 (61cm/24").  
 Also available THD604 series to suit 10mm Clip Width. Available lengths - 25cm (10"), 28cm (11"), 30cm (12"), 36cm (14"), 38cm (15"), 41cm (16"), 43cm (17"), 46cm (18"), 51cm (20"), 56cm (22"), & 61cm (24").



# Heavy Duty Pantograph Wiper Arms

TRICO



### Pantograph Arms - DIN Tapered Head

Part Number	Arm Length	Main Arm suits	Slave / Idler Arm suits	Arm centres	Blade saddle
TPA682	71cm (28") (Fixed Length)	12 DIN tapered shaft	10 DIN tapered shaft	= 60 mm	= 14 mm

### Pantograph Arms

Part Number	Length	Main Arm suits	Slave / Idler Arm suits	Arm centres	Blade saddle
TPA952-46	46cm Long	12 DIN tapered shaft	Collet & Clamp	= 60 mm	= 14 mm
TPA952-51	51cm Long				
TPA952-56	56cm Long				
TPA952-61	61cm Long				
TPA952-66	66cm Long				
TPA952-71	71cm Long				

Part Number	Length	Main Arm suits	Slave / Idler Arm suits	Arm centres	Blade saddle
TPA670-51	51cm Long	Knurled Driver & clamp down nut	Collet & Clamp	= 44 mm	= 14 mm
TPA670-56	56cm Long				
TPA670-61	61cm Long				
TPA670-66	66cm Long				
TPA670-71	71cm Long				

### Knurled Driver

Suits the following Wiper Arms:  
TPA620 Series  
TPA670 Series

Tapered knurled driver for flattened shaft end.

# Windscreen Washer Accessories & Parts



### Washer Hose Tubing

(Available in 50m lengths only)

P/N 600/0022 - P.V.C. Tubing 2.8mm I.D.  
P/N 600/005 - P.V.C. Tubing 3.9mm I.D.  
P/N 500/017 - Rubber Hose 2mm I.D.  
P/N 500/018 - Rubber Hose 4mm I.D.

### Part No: 75400 Traveling Jet Kit

### Part No: WP10 Non-return Valve

### Part No: WP9 In Line Non-return Valve

### Part No: 80825 12V Pump Part No: 80826 24V Pump

### Part No: 80828 Through Body Connector

### In Line Joiners

### "T" Pieces

### Fixed Washer Jets

#### Bug Eye Jet P/N: 80182

#### Jet P/N: A86022-4

#### Jet P/N: A86022-4

# Heavy Duty "Mustang" Series Wiper Arms



Passenger Side - Part No: 69005  
736mm  
Driver Side - Part No: 69006  
720mm  
Optional Traveling Washer Jet Kit P/N: 75400

Black Chrome Dome Nut Part No: 69030

Suits 16 mm DIN tapered shaft

M12

Blade Saddle

18 mm

22mm

Passenger Side - Part No: TMA68992  
742mm  
Driver Side - Part No: TMA68990  
736mm  
14 deg crank  
20 deg crank  
Optional Traveling Washer Jet Kit P/N: 75400

Use existing nut

Suits 16 mm DIN tapered shaft

M12

Blade Saddle

18 mm

22mm

Passenger Side - Part No: TMA68986  
811mm  
Driver Side - Part No: TMA68986  
811mm  
19.5 deg crank  
11.3 deg crank  
Optional Traveling Washer Jet Kit P/N: 75400

Use existing nut

Suits 16 mm DIN tapered shaft

M12

Blade Saddle

18 mm

22mm

# Heavy Duty Pantograph Wiper Arms



**Pantograph Arms - DIN Tapered Head**

PIN: 136976 WH Head Cover  
Length of arm  
PIN: 152876 WH Arm End Socket  
PIN: 153053 WH Head Cover  
PIN: 152875 WH Bearing Cover  
Optional Traveling Washer Jet Kit P/N: 75400

Part Number <b>TPA682</b>	Arm Length 71cm (28") (Fixed Length)	Main Arm suits 12 DIN tapered shaft	Slave / Idler Arm suits 10 DIN tapered shaft	Arm centres = 60 mm	Blade saddle = 14 mm
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**Pantograph Arms**

PIN: 152871 WH Head Cover  
Length of arm  
PIN: 152876 WH Arm End Socket  
PIN: 152875 WH Bearing Cover  
Optional Traveling Washer Jet Kit P/N: 75400

Part Number TPA952-46 TPA952-51 TPA952-56 TPA952-61 TPA952-66 TPA952-71	Length 46cm Long 51cm Long 56cm Long 61cm Long 66cm Long 71cm Long	Main Arm suits 12 DIN tapered shaft	Slave / Idler Arm suits Collet & Clamp	Arm centres = 60 mm	Blade saddle = 14 mm
-------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	----------------------------------------	-------------------------------------------	------------------------	-------------------------

Part Number TPA670-51 TPA670-56 TPA670-61 TPA670-66 TPA670-71	Length 51cm Long 56cm Long 61cm Long 66cm Long 71cm Long	Main Arm suits Knurled Driver & clamp down nut	Slave / Idler Arm suits Collet & Clamp	Arm centres = 44 mm	Blade saddle = 14 mm
------------------------------------------------------------------------------	-------------------------------------------------------------------------	---------------------------------------------------	-------------------------------------------	------------------------	-------------------------

**Knurled Driver**

Suits the following Wiper Arms:  
TPA620 Series  
TPA670 Series

Tapered knurled driver for flatted shaft end.  
P/N: 101569JB