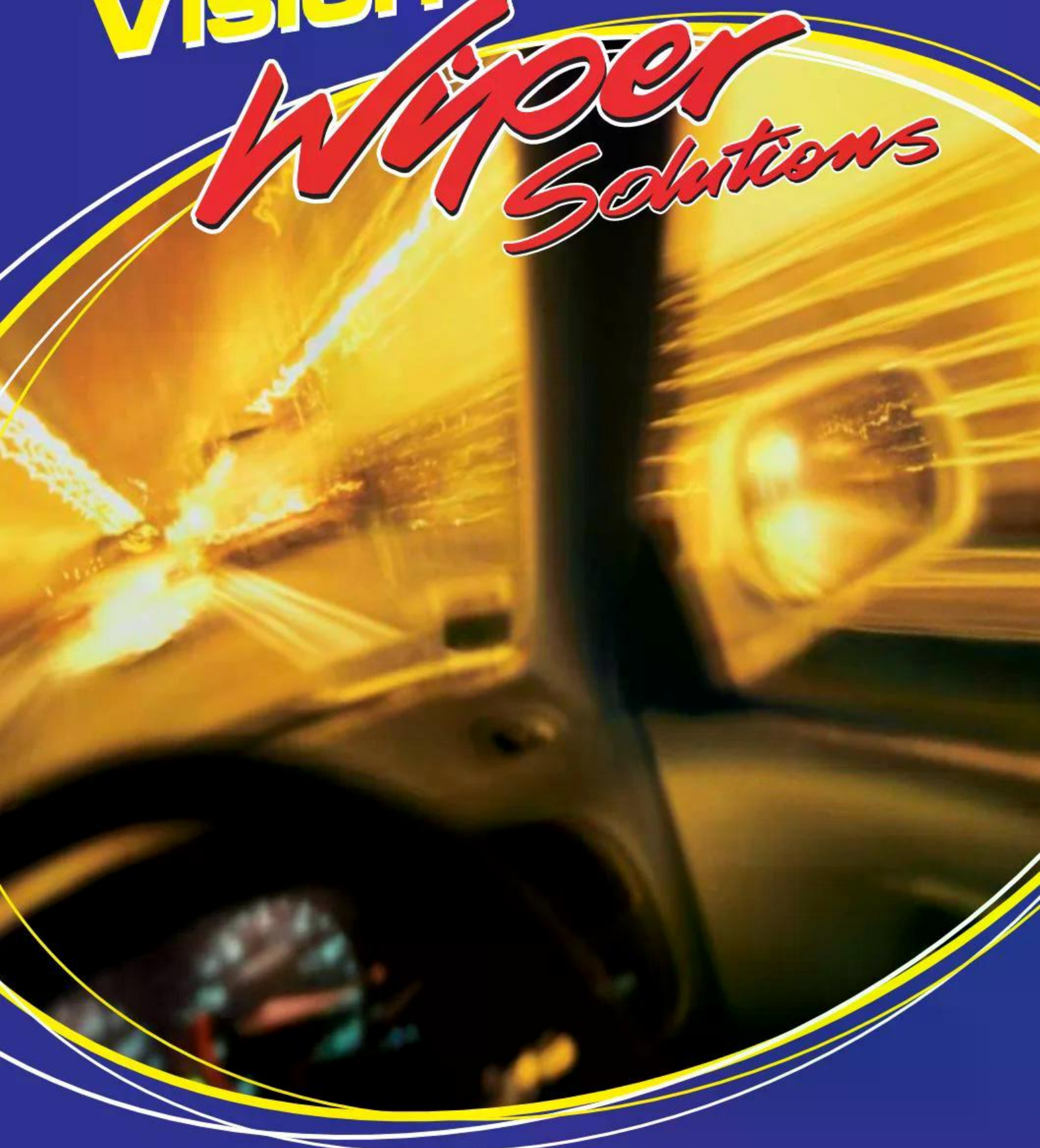


BUS - TRUCK  
INDUSTRIAL  
2020

TRU  
Vision

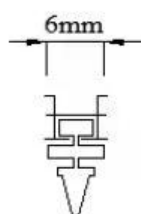
*Wiper  
Solutions*



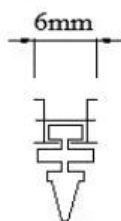
PREMIUM WIPER EQUIPMENT

# Refill Profiles

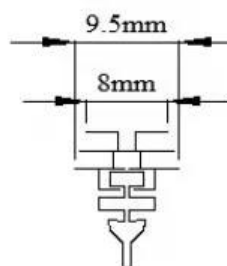
**WRPN610**



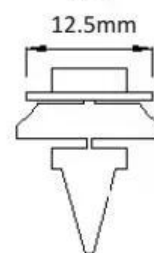
**WRPN710**



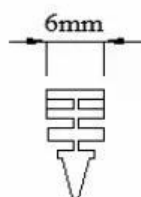
**TV1000**



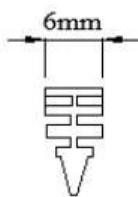
**TC**



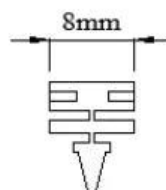
**WRMN610**



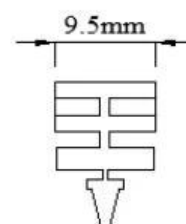
**WRMN710**



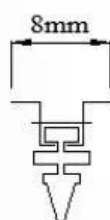
**TVWR-8-65**



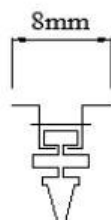
**TC60100**



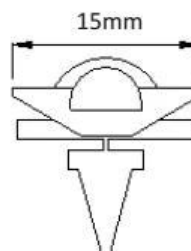
**WRPW610**



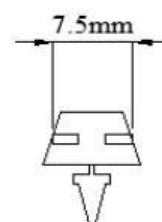
**WRPW710**



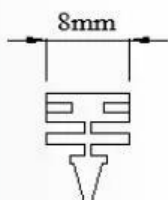
**TVA**



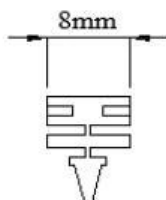
**TVT710**



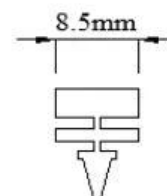
**WRMW610**



**WRMW710**



**WRHR710**



Robin Boyd started Tru Vision wiper systems in 1995 after 12 years as a sales agent for an international wiper systems brand. Long story short: he thought he could do a better job himself.

Tru Vision Wiper Solutions specializes in all types of window wiper products and systems. The business has an in-house design and engineering department based in Brisbane that works with trusted manufacturers from around the world to have custom products built to the highest quality and specification.

The focus of the business is heavy-duty bespoke systems, which takes into account truck windscreen wiper blades and motors, total bus wiper systems and spares, plus custom industrial jobs.



DESCRIPTION	PAGE
Automotive Wiper Blades	4
Hybrid Wiper Blades	5
Heavy Duty Wiper Blades	6-7
Wiper Blade Refills	8-9
Universal Adjustable Wiper Arms	10
Heavy Duty Wiper Arms	11-13
Pantograph Wiper Systems	14
Opposing Wipe Wiper Systems	15
Small Screen Wiper Systems	16-18
Large Screen Wiper Systems	19
Marine Large Screen Wiper Systems	20-22
Marine Arms & Blades	21
DC Electric Wiper Motors	23-25
TV5000 Series Wiper Systems	26-29
230 Series Wiper Kit Systems	30-32
Pivots & Linkages	33
Custom Pivot Order Form	34
More DC Electric Wiper Motors	35
Heavy Duty SWF Style Parts	36
Trico Style Pivots & Linkages	37
Washer Bottles & Pumps	38
Washer Parts & Switches	39
Washer Jets & Transom Mounts	40
Easy Adaptor Guide	42
Wiper Specification Request	43
General Warranty Statement	44
Notes	45



TRU VISION PTY LTD  
 P.O. Box 1148  
 Unit 1/62 Eastern Rd.  
 Browns Plains, QLD 4118 Australia  
 Phone: +61 (0) 7 3806 7822  
 E-mail: sales@truvision.com.au



Tru Vision

# Premium

## BLADES

The Tru-Vision Premium all metal wiper blade assemblies provide a precise wiping edge to ensure an effective wiping action with a minimum of noise.

All blade assemblies are supplied with universal adaptors to suit most arm applications and include simple fitting instructions on the back of the pack.

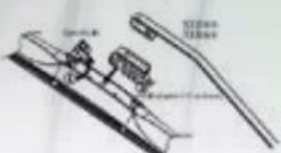
### Standard Metal Blades

SWB300	300mm/12"
SWB350	350mm/14"
SWB400	400mm/16"
SWB450	450mm/18"
SWB500	500mm/20"
SWB560	560mm/22"
SWB600	600mm/24"



### Flat Wiper Blades

TVF300	300mm/12"
TVF325	325mm/13"
TVF350	350mm/14"
TVF375	375mm/15"
TVF400	400mm/16"
TVF425	425mm/17"
TVF450	450mm/18"
TVF475	475mm/19"
TVF500	500mm/20"
TVF525	525mm/21"
TVF550	550mm/22"
TVF575	575mm/23"
TVF600	600mm/24"
TVF650	650mm/26"
TVF700	700mm/28"





# Hybrid Wiper Blade – TVH Series

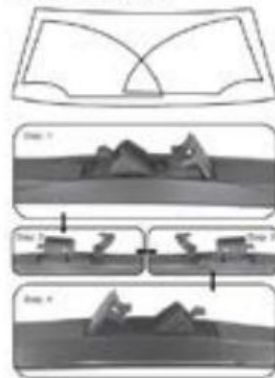
**TRU  
Vision**

**TO SUIT MOST JAPANESE VEHICLES**

- Natural rubber inserts
- Premium metal sub frame
- Polycarbonate outer
- Stainless steel rails
- Suit 9x3 and 9x4 hook arms



• If vehicle has "topwood" wiping pattern as shown, follow these instructions. **FOR PASSENGER SIDE BLADE INSTALLATION ONLY**

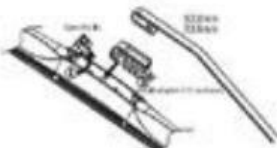


Part numbers available:

- TVH350
- TVH375
- TVH400
- TVH425
- TVH450
- TVH475
- TVH500
- TVH525
- TVH550
- TVH600
- TVH650
- TVH700



FOR CENTRAL HOOK ARMS



E & OE

**Wiper  
Solutions**

# Heavy Duty Wiper Blades

## PART NUMBER & LENGTH

TVCH700 - 28" ( 70cm )  
TVCH800 - 32" ( 80cm )  
TVCH900 - 36" ( 90cm )  
TVCH1000 - 40" ( 100cm )



## PART NUMBER & LENGTH

## KENWORTH BLADES

TVCS-15 - 15" ( 38cm )  
TVCS-16 - 16" ( 41cm )  
TVCS-18 - 18" ( 46cm )

TO SUIT 6mm CLIP WIDTH



Refills to suit TVA-15, TVA-16, TVA-18

## PART NUMBER & LENGTH

## KENWORTH REFILLS

TVA-15 - 15" ( 38cm )  
TVA-16 - 16" ( 41cm )  
TVA-18 - 18" ( 46cm )

15mm



## PART NUMBER & LENGTH

## UNDER HOOK BLADES

TVCH900H - 36" (90cm)  
TVCH1000H - 40" (100cm)



Part No: TV1000 ( Pair Pack )    Part No: TV1000-10 ( Box of 10 )



Universal Multi-Fit Truck and Bus Wiper Blade Refills -  
40" ( 1000mm ) are designed to fit both 8mm and 9.5mm wide wiper blades.

Part No: WRMW710 Metal Back ( Pair Pack )    Part No: WRMW710-10 Metal Back ( Box of 10 )



Wiper Blade Refills in Twin Pack or Bulk 10 Pack to suit most 8mm Wiper Blades.  
Available in either a Plastic or Metal Back.

E & OE



Tru Vision

## WIPER BLADE REFILLS

The Tru-Vision range of Heavy Duty Wiper Blade Refills are designed to withstand the rigours of commercial and industrial usage, and come in the most common range of sizes from 22" ( 55cm ) right through to the 40" ( 100cm ) refill, and are manufactured to our exact specifications using 100% natural rubber.

### TRU VISION WIPER BLADE REFILLS

BLADE PART No:	BLADE LENGTH	METAL REFILL No:	PLASTIC REFILL No:	BLADE PART No:	BLADE LENGTH	METAL REFILL No:	PLASTIC REFILL No:
				TC700	28" (70cm)	TC60100	TV1000
TC600A	24" (60cm)	WRMN610	WRPN610	TC800	32" (80cm)	TC60100	TV1000
TC650A	26" (65cm)	EVMN710	WRPN710	TC900	36" (90cm)	TC60100	TV1000
TC700A	28" (70cm)	EVMN710	WRPN710	TC1000	40" (100cm)	TC60100	TV1000

### 6MM, 7MM, 8MM and 6-8MM MULTI-FIT PLASTIC REFILLS

Plastic Back Wiper Blade Refills in Twin Pack or Bulk 20 Pack to suit most 6, 7 and 8mm Wiper Blades. 6-8mm Multi-Fit also available.

Part No: WRPN610-20 Narrow Back ( Box of 20 )  
Part No: WRPN610 Narrow Back ( Pair Pack )  
Part No: WRPW610-20 Wide Back ( Box of 20 )  
Part No: WRPW610 Wide Back ( Pair Pack )  
Part No: WRPMF610-20 Multi-Fit ( Box of 20 )  
Part No: WRPMF610 Multi-Fit ( Pair Pack )

### 6MM or 8MM METAL REFILLS

Metal Back Wiper Blade Refills in Twin Pack or Bulk 20 Pack to suit most 6mm and 8mm Wiper Blades.

Part No: WRMN610-20 Narrow Back ( Box of 20 )  
Part No: WRMN610 Narrow Back ( Pair Pack )  
Part No: WRMW610-20 Wide Back ( Box of 20 )  
Part No: WRMW610 Wide Back ( Pair Pack )



E & OE

# Wiper Blade Refills

**TRU  
Vision**

## 8-9.5MM PLASTIC MULTI-FIT REFILLS

Universal Multi-Fit Truck and Bus Wiper Blade Refills - 40" ( 1000mm ) are designed to fit both 8mm and 9.5mm wide wiper blades.

Part No: TV1000 ( Pair Pack )

Part No: TV1000-10 ( Box of 10 )

## 6MM & 8MM METAL AND PLASTIC REFILLS

Wiper Blade Refills in Twin Pack or Bulk 10 Pack to suit most 8mm Wiper Blades.

Available in either a Plastic or Metal Back.

Part No: EVMN710 Metal Back ( Pair Pack )

Part No: EVMN710-10 Metal Back ( Box of 10 )

Part No: WRPN710 Plastic Back ( Pair Pack )

Part No: WRPN710-10 Plastic Pack ( Box of 10 )

Part No: WRMW710 Metal Back ( Pair Pack )

Part No: WRMW710-10 Metal Back ( Box of 10 )

Part No: WRPW710 Plastic Back ( Pair Pack )

Part No: WRPW710-10 Plastic Back ( Box of 10 )



E & OE

**Wiper  
Solutions**

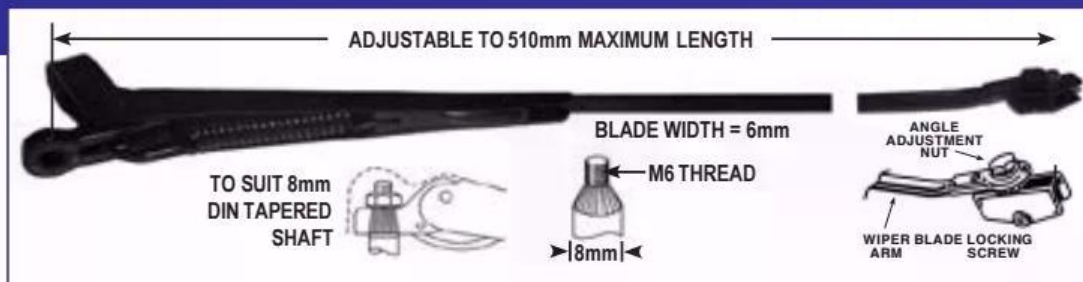


# Universal Adjustable Wiper Arms

PART No: TC034



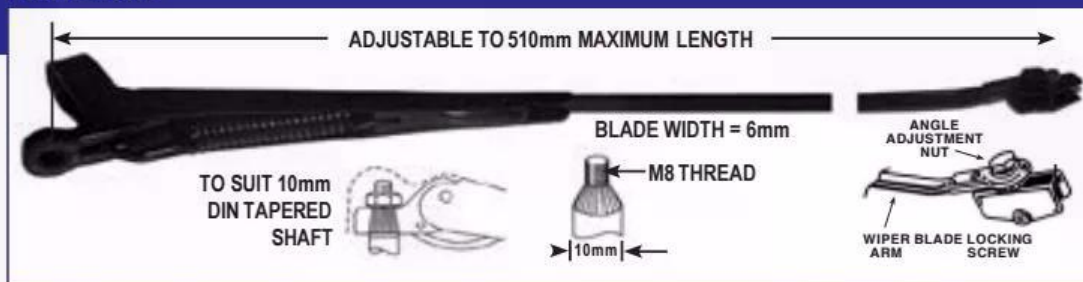
PART No: TC076



PART No: TC380



PART No: TC078



PART No: TC444-XX Radial Arm  
PART No: TC555-XX Pantograph Arm

ARMS HAVE 100mm OF LENGTH ADJUSTABILITY  
TO SUIT TC1233 and TC2233 WIPER MOTORS

**ALSO  
AVAILABLE IN  
MARINE  
GRADE  
STAINLESS  
STEEL**



E & OE

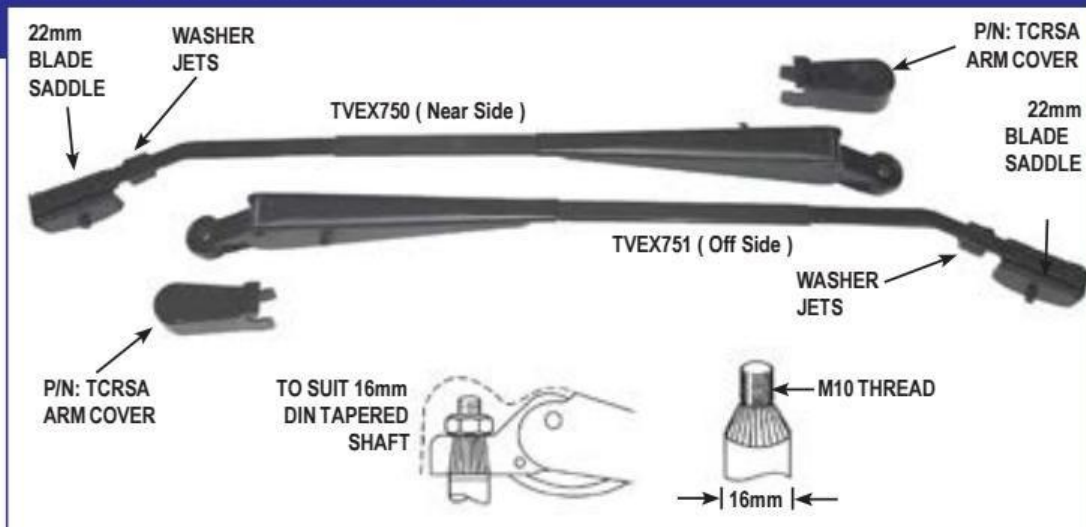
# Heavy Duty Wiper Arms

**TRU  
Vision**

## HEAVY DUTY WIPER ARMS

Quality Heavy Duty Single and Pantograph Wiper Arms, standard with washer jets for Bus and Industrial applications.

PART No: TVEX750 ( Near Side ) and TVEX751 ( Off Side )



PART No: TV68996-OS & TV68994-NS



E & OE

**Wiper  
Solutions**



# Heavy Duty Wiper Arms

PART No: TC881-XX ( where XX = Length of arm required in cm ) 70-75-80-85-90cm



PART No: TC777-XX ( where XX = Length of arm required in cm ) 70-75-80-85cm



PART No: TC999-XX ( where XX= Length of arm required in cm ) 70-75-80-85-87-90-100cm

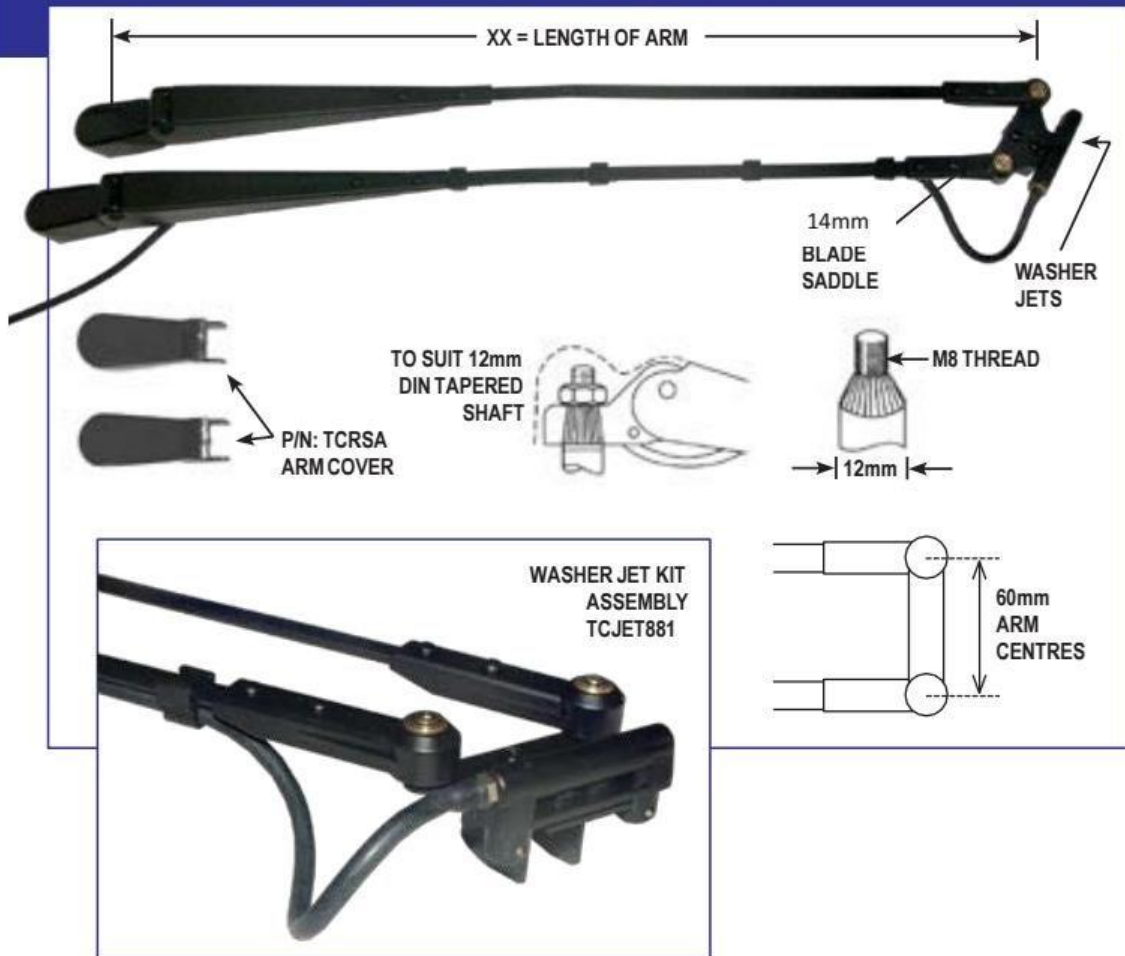


E & OE

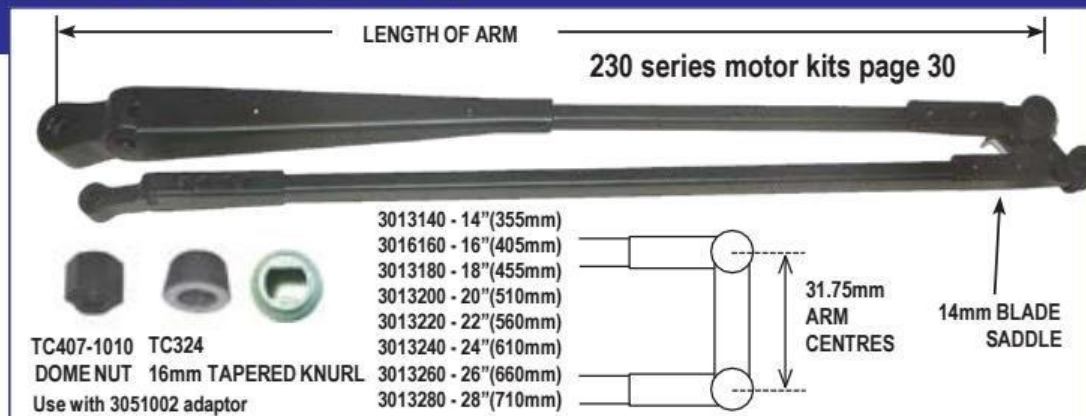
# Heavy Duty Wiper Arms

**TRU  
Vision**

PART No: TC666-XX ( where XX = Length of arm required in cm ) 50-55-61-65-70-75cm



PART No: 230 SERIES PANTOGRAPH WIPER ARMS



PART No: 230 SERIES RADIAL WIPER ARMS

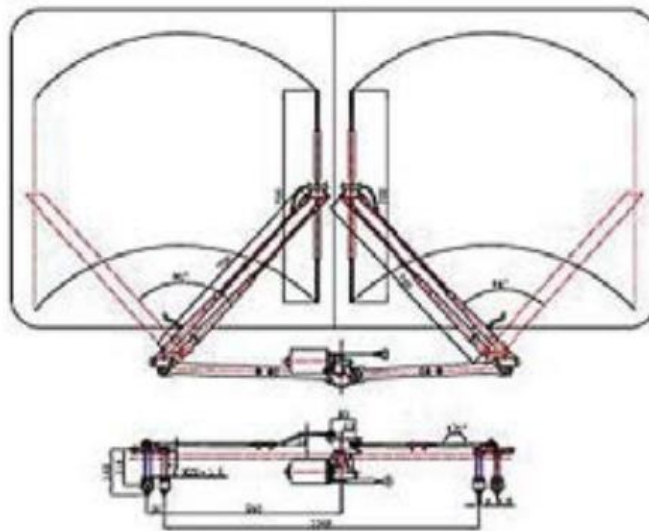


**Wiper  
Solutions**



## HEAVY DUTY PANTOGRAPH WIPER SYSTEMS

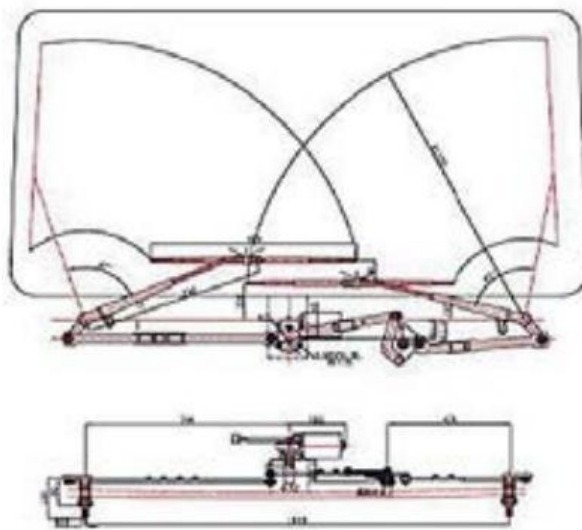
Quality Heavy Duty Pantograph Wiper Systems designed for long life use in the Bus and Industrial Vehicle market. These wiper systems come complete with heavy duty wiper motors, arms, adjustable tubular steel linkages, heavy duty anodised pivots and wet arm washer system.



FOR ILLUSTRATION  
PURPOSES ONLY

## HEAVY DUTY OPPOSING WIPE - WIPER SYSTEMS

Quality Heavy Duty 'Clap Hands' Wiper Systems designed for long life use in the Bus and Industrial Vehicle market. These wiper systems come complete with heavy duty wiper motors, arms, adjustable channel steel linkages, heavy duty anodised pivots and wet arm washer system.



FOR ILLUSTRATION  
PURPOSES ONLY



# Small Screen Wiper Systems

## BA series

ZD1230BA-12V-60°-48mm	ZD2230BA-24V-60°-48
ZD1230BA-12V-60°-68mm	ZD2230BA-24V-60°-68
ZD1230BA-12V-80°-48mm	ZD2230BA-24V-80°-48
ZD1230BA-12V-90°-48mm	ZD2230BA-24V-90°-48
ZD1230BA-12V-90°-68mm	ZD2230BA-24V-90°-68

Two speed, auto park. Supplied with short loom and switch. Parks to the left when mounted at the bottom of the windscreen, looking from outside to the operator. Right hand park is available upon request. M8 – 10DIN main shaft, 8mm slave pivot.



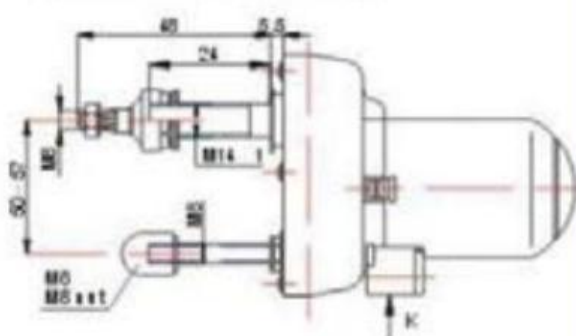
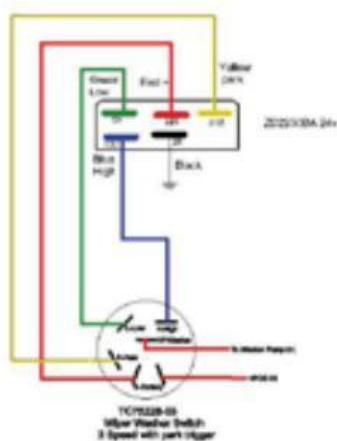
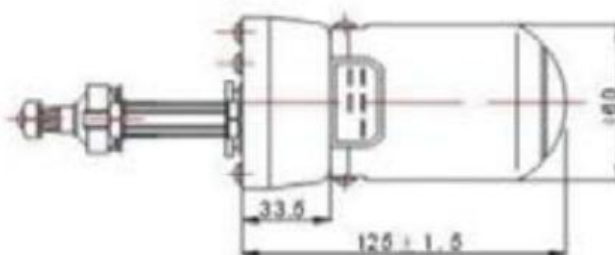
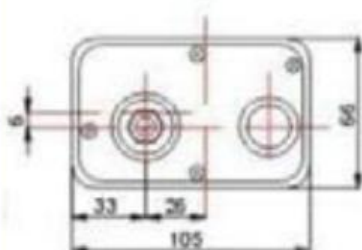
**Pantograph arms**  
ZD1230-400-P  
ZD1230-450-P  
ZD1230-500-P



**Radial arms**  
ZD1230-450  
ZD1230-500



**TC078**



E & OE

# Small Screen Wiper Systems

TRU  
Vision

## B series

ZD1230B-12V-60°-48mm	ZD2230B-24V-60°-48mm
ZD1230B-12V-60°-68mm	ZD2230B-24V-60°-68mm
ZD1230B-12V-90°-48mm	ZD2230B-24V-90°-48mm
ZD1230B-12V-90°-68mm	ZD2230B-24V-90°-68mm

A single speed motor with inbuilt rocker switch. No auto park. Parks to the left when mounted at the bottom of the windscreen, looking from outside to the operator. Right hand park is available upon request. M8 – 10DIN main shaft, 8mm slave pivot.



Arm and blades to suit are as per the “BA” series motor

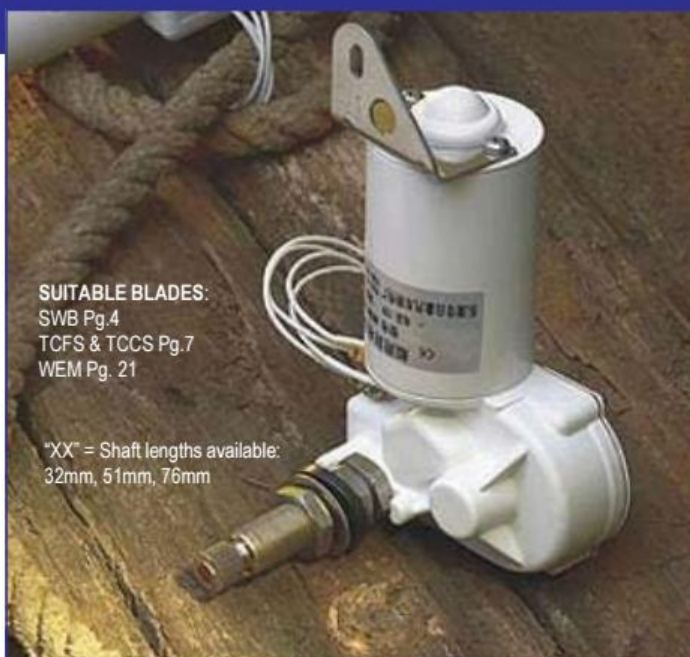
## TECHNICAL SPECIFICATIONS

VOLTAGE	12 VOLT / 24 VOLT
BRAKE TORQUE	9Nm
NOISE	< 50dB(A)
NO-LOAD SPEED ( HIGH )	55 ± 7 RPM
NO-LOAD CURRENT ( HIGH )	< 2A (12V) <1A (24V)
WORKING SPEED ( HIGH )	50 ± 5 RPM
WORKING CURRENT ( HIGH )	< 3.6A (12V) < 1.8A (24V)
WIPER ANGLE	45 - 110°
WORKING CURRENT ( LOW )	< 2.4A (12V) < 1.2A (24V)
WIPER SPECIFICATIONS	BLADE 500mm ARM 500mm

NOTE: Wiper specification, angle, output specification can be designed to suit customer request.



PART No: TCM1233-XX (12 volt) PART No: TCM2233-XX (24 volt)



**SUITABLE BLADES:**  
SWB Pg.4  
TCFS & TCCS Pg.7  
WEM Pg. 21

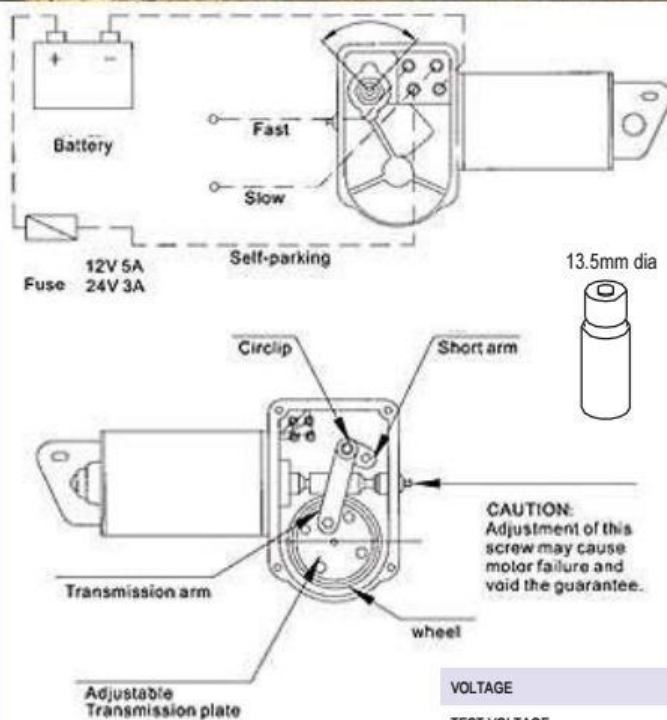
"XX" = Shaft lengths available:  
32mm, 51mm, 76mm

## TO CHANGE WIPING ANGLE AND SELF PARKING POSITION THE MOTOR IS PRESET TO 110° WIPING ANGLE AND RIGHT SELF PARKING POSITION

1. Remove cover plate.
2. Remove the circlip that connects shaft and transmission arm.
3. Lift off the transmission arm.
4. Unscrew the two screws that fasten the transmission plate.
5. Replace the transmission plate with the hole for the desired angle positioned directly over the grooves.

## TO CHANGE TO RIGHT SELF PARKING POSITION OR LEFT PARKING POSITION

- Change to left or right self parking position by positioning the transmission plate with the holes directly over the groove.
6. Reposition transmission arm and replace circlip back to the transmission plate. If lack of lubrication grease, add more.
  7. Available degrees of sweep are 45°-60°-80°-110°



### Pantograph Arms

TC555-35-45  
TC555-45-55  
TC555-50-60  
Stainless Steel  
TC555-35-45SS  
TC555-45-55SS  
TC555-50-60SS



### Radial Arms

TC444-34-45  
TC444-45-55  
TC444-50-60  
Stainless Steel  
TC444-35-45SS  
TC444-45-55SS  
TC444-50-60SS



## TECHNICAL SPECIFICATIONS

VOLTAGE	12 VOLT / 24VOLT
TEST VOLTAGE	13.5 VOLT / 27 VOLT
BRAKE TORQUE	18Nm
WORKING TORQUE	3.43Nm
NOISE	< 53dB(A)
NO-LOAD SPEED ( LOW )	35 ± 5RPM
NO-LOAD SPEED ( HIGH )	45 ± 5RPM
NO-LOAD CURRENT ( LOW )	< 2A (12V) < 1A (24V)
NO-LOAD CURRENT ( HIGH )	< 3A (12V) < 1.5A (24V)
WORKING SPEED ( LOW )	30 ± 4RPM
WORKING SPEED ( HIGH )	40 ± 4RPM
WORKING CURRENT ( LOW )	< 5A (12V) < 2.5A (24V)
WORKING CURRENT ( HIGH )	< 7A (12V) < 3.5A (24V)
WIPER SPECIFICATIONS	BLADE 500mm ARM 500mm
WIPER ANGLE	45 - 110°

# Large Screen Wiper Systems

**TRU  
Vision**

## LARGE SCREEN WIPER SYSTEMS

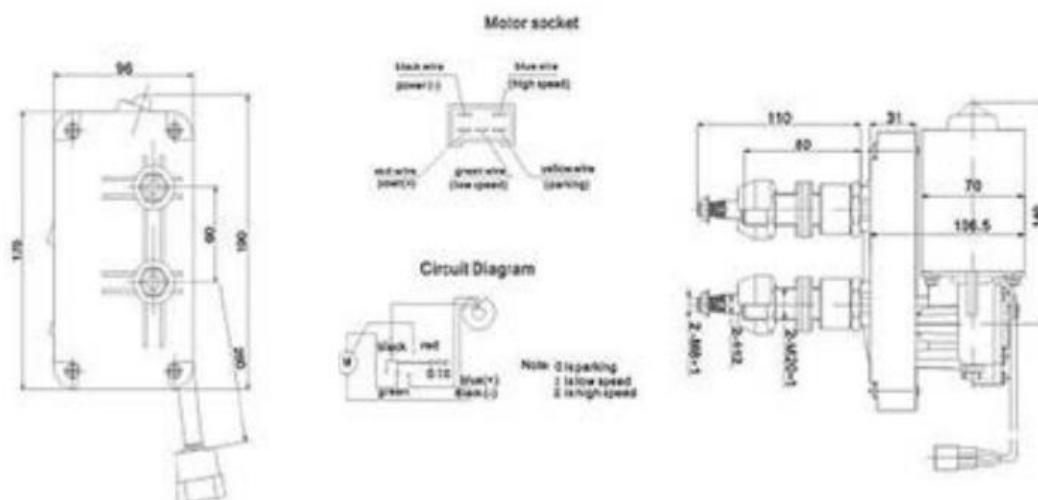
Quality Heavy Duty Pantograph Wiper Systems designed for long life use in the Bus and Industrial Vehicle market. These wiper systems come complete with heavy duty wiper motors, arms, steel linkages, heavy duty anodised pivots and wet arm washer system.

PART No: ZD1530 - 12 volt    PART No: ZD1530 - 24 volt



MOTOR MODEL	ZD1530B-TM/2530B-TM
NORMAL VOLTAGE / WATT	12 VOLT / 24 VOLT    50 Watt
WATTAGE / TORQUE	50W /36Nm
WIPER SPECIFICATION ( BLADE ) X ( ARM )	500-600 X600-700mm
ANGLE OF WIPING	50 - 90 DEGREES
FREQUENCY OF WIPING	35 - 45 TIMES / PER MINUTE
OPTIONAL WASHER KIT	XD 105/205 12 VOLT / 24VOLT

NOTE: Wiper specification, angle, output specification can be designed to suit customer request.



E & OE

**Wiper  
Solutions**



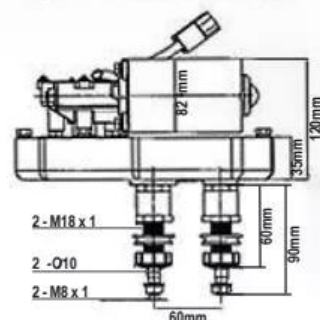
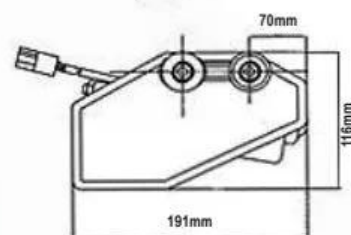
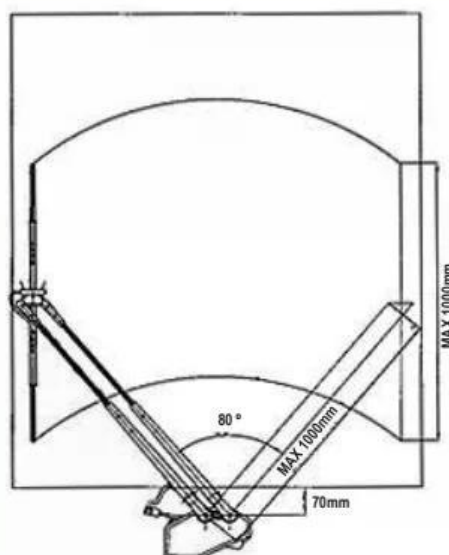
# Marine Large Screen Wiper Systems

## MARINE LARGE SCREEN WIPER SYSTEMS

Quality Heavy Duty Pantograph Wiper Systems designed for long life use in the Marine and Heavy Industrial Vehicle market. These wiper systems come complete with heavy duty wiper motors, arms, Stainless Steel Linkages, heavy duty Stainless Steel Pivots and wet arm washer system.

PART No: WEM1930-TM-60MM - 12 volt

PART No: WEM2930-TM-60MM - 24 volt



### TECHNICAL SPECIFICATIONS

VOLTAGE	12 VOLT / 24VOLT
TEST VOLTAGE	13.5 VOLT / 27 VOLT
BRAKE TORQUE	65Nm
WORKING TORQUE	12Nm
NOISE	< 62dB(A)
NO-LOAD SPEED ( LOW )	35 ± 5RPM
NO-LOAD SPEED ( HIGH )	45 ± 5RPM
NO-LOAD CURRENT ( LOW )	< 2A (12V) < 1A (24V)
NO-LOAD CURRENT ( HIGH )	< 3A (12V) < 1.5A (24V)
WORKING SPEED ( LOW )	30 ± 5RPM
WORKING SPEED ( HIGH )	45 ± 5RPM
WORKING CURRENT ( LOW )	< 10A (12V) < 5A (24V)
WORKING CURRENT ( HIGH )	< 13 A (12V) < 6.5A (24V)
WIPER SPECIFICATIONS	BLADE 1000mm ARM 1000mm
WIPER ANGLE	45 - 110°

NOTE: Wiper specification, angle, output specification can be designed to suit customer request.

## MOTORS 24 VOLT M8-DIN12

WEM2530B-TM-60-60  
WEM2530B-TM-60-75  
WEM2530B-TM-60-90  
WEM2530B-TM-80-60  
WEM2530B-TM-80-75

## MOTORS 24 VOLT M10-DIN12

WEM2930-24-60  
WEM2930-24-80  
WEM2930-TM-24V-90

## MOTORS 12 VOLT M8-DIN12

WEM1930-12V-50-75  
WEM1930-12V-60-75  
WEM1930-12V-80-75  
WEM1530B-TM-100-50  
WEM1530B-TM-60-60  
WEM1530B-TM-60-75  
WEM1530B-TM-80-50  
WEM1530B-TM-80-60  
WEM1530B-TM-80-72  
WEM1530B-TM-80-75

## PANTOGRAPH ARMS – M8-10DIN M8 SLAVE

WEM1230-P-450  
WEM1230-P-500

## PANTOGRAPH ARMS – M8-12DIN

WEM1530-P-450 S/S 14mm  
WEM1530-P-500 S/S 14mm  
WEM1530-P-550 S/S 14mm  
WEM1530-P-600 S/S 14mm  
WEM1530-P-650 S/S 14mm  
WEM1530-P-700 S/S 14mm  
ALSO AVAILABLE IN BLACK FINISH



## PANTOGRAPH ARMS – M10-12DIN

WEM2930-80-100 S/STEEL 26mm  
WEM2930B-80-100 S/STEEL BLACK 26mm

## BLADES

WEM400	S/STEEL FINISH	14mm
WEM450	S/STEEL FINISH	14mm
WEM500	S/STEEL FINISH	14mm
WEM550	S/STEEL FINISH	14mm
WEM600	S/STEEL FINISH	14mm
WEM700	S/STEEL FINISH	14/16mm
WEM700A		16MM HOOK 9X4
WEM700B	S/S BLACK	14/16mm
WEM800	S/STEEL FINISH	14/16mm
WEM800B	S/S BLACK	14/16mm
WEM900	S/STEEL FINISH	22/26mm
WEM900B	S/S BLACK	22/26mm
WEM1000	S/STEEL FINISH	22/26mm
WEM1000B	S/S BLACK	22/26mm

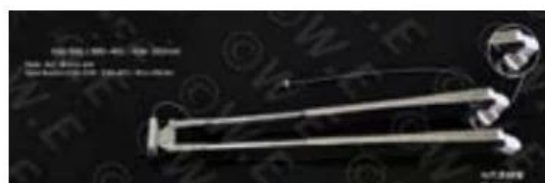
## RADIAL ARMS – 13.5mm DRUM

TC444-35-45SS – SS/  
TC444-45-55SS – S/S  
TC444-50-60BSS – S/S BLACK FINISH



## PANTOGRAPH ARMS – 13.5MM DRUM

TC555-35-45SS – S/S  
TC555-45-55SS – S/S  
TC555-50-60BSS – S/S BLACK FINISH

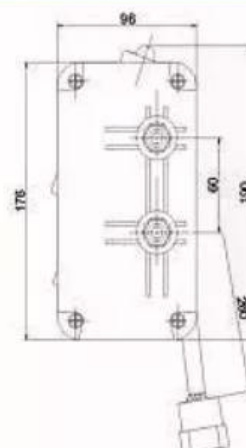




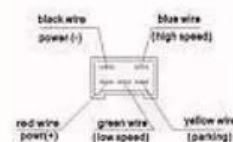
# Marine Large Screen Wiper Systems

PART No: WEM1530-TM-60MM - 12 volt

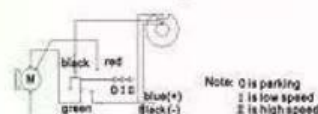
PART No: WEM2530-TM-60MM - 24 volt



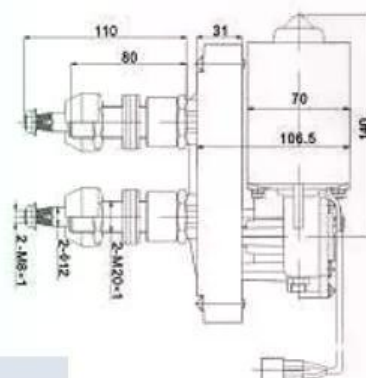
Motor socket



Circuit Diagram



Note: 0 is parking  
1 is low speed  
2 is high speed



## TECHNICAL SPECIFICATIONS

VOLTAGE	12 VOLT / 24VOLT
TEST VOLTAGE	13.5 VOLT / 27 VOLT
BRAKE TORQUE	30Nm
WORKING TORQUE	5Nm
NOISE	< 53dB(A)
NO-LOAD SPEED ( LOW )	37 ± 3RPM
NO-LOAD SPEED ( HIGH )	50 ± 5RPM
NO-LOAD CURRENT ( LOW )	< 3A (12V) < A1.5 (24V)
NO-LOAD CURRENT ( HIGH )	< 4 A (12V) < 2A (24V)
WORKING SPEED ( LOW )	33 ± 3RPM
WORKING SPEED ( HIGH )	48 ± 5RPM
WORKING CURRENT ( LOW )	< 7A (12V) < 3.5A (24V)
WORKING CURRENT ( HIGH )	< 9 A (12V) < 4.5A (24V)
WIPER SPECIFICATIONS	BLADE 550mm DOUBLE ARM 600mm
WIPER ANGLE	45 - 90°

NOTE: Wiper specification, angle, output specification can be designed to suit customer request.

# DC Electric Wiper Motors

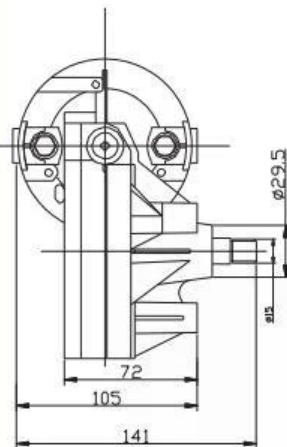
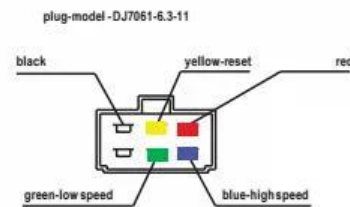
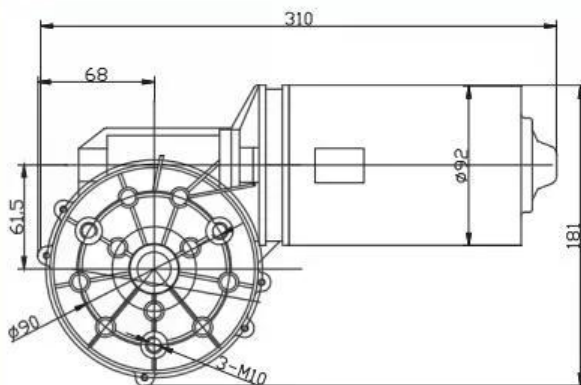
**TRU  
Vision**

PART No: TC180 - 12 volt

PART No: TC180 - 24 volt



TC180-24V-13MM  
TC180-24V-15.3C (COARSE SHAFT)  
TC180-24V-15.3F (FINE SHAFT)  
TC180-24V-15.7  
TC180-24V-16MM



## TECHNICAL SPECIFICATIONS

VOLTAGE	12 VOLT / 24VOLT
TEST VOLTAGE	13.5 VOLT / 27VOLT
BRAKE TORQUE	102Nm
WORKING TORQUE	17Nm
NOISE	< 53dB(A)
NO-LOAD SPEED ( LOW )	30 ± 3RPM
NO-LOAD SPEED ( HIGH )	50 ± 5RPM
NO-LOAD CURRENT ( LOW )	< 5A (12V) < A2.5 (24V)
NO-LOAD CURRENT ( HIGH )	< 10 A (12V) < 5A (24V)
WORKING SPEED ( LOW )	28 ± 3RPM
WORKING SPEED ( HIGH )	45 ± 5RPM
WORKING CURRENT ( LOW )	< 15A (12V) < 7.5A (24V)
WORKING CURRENT ( HIGH )	< 19A (12V) < 9.5A (24V)

**Wiper  
Schlösser**



# DC Electric Wiper Motors

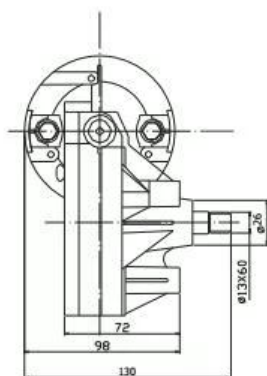
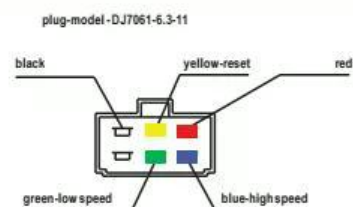
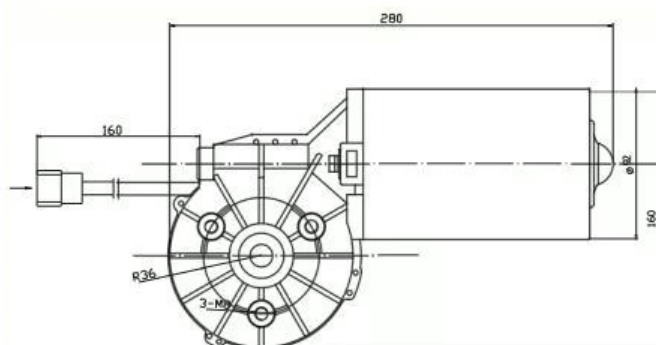
PART No: TC150 - 12 volt

PART No: TC150 - 24 volt



13MM DIA SHAFT

TC150-12V  
TC150-24V



## TECHNICAL SPECIFICATIONS

VOLTAGE	12 VOLT / 24VOLT
TEST VOLTAGE	13.5 VOLT / 27 VOLT
BRAKE TORQUE	85Nm
WORKING TORQUE	17Nm
NOISE	< 53dB(A)
NO-LOAD SPEED ( LOW )	30 ± 3RPM
NO-LOAD SPEED ( HIGH )	50 ± 5RPM
NO-LOAD CURRENT ( LOW )	< 4A (12V) < 2A (24V)
NO-LOAD CURRENT ( HIGH )	< 8A (12V) < 4A (24V)
WORKING SPEED ( LOW )	28 ± 3RPM
WORKING SPEED ( HIGH )	45 ± 5RPM
WORKING CURRENT ( LOW )	< 14A (12V) < 7A (24V)
WORKING CURRENT ( HIGH )	< 18A (12V) < 9A (24V)

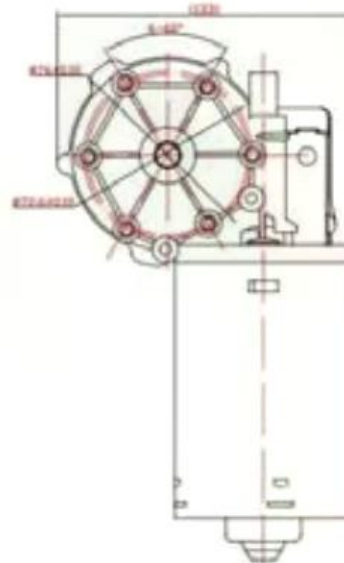
**TRU  
Vision**

**PART No: 230J661 - 24 volt**



## Coast to park

**11.8mm diameter x 16mm long shaft**



plug-model-DJ7061-6.3-11





## Product Description:

- Automotive and industrial
- 35Nm breaking torque
- 6.5Nm working torque
- 12v or 24v DC
- Motor drive M8 DIN10
- Dynamic park
- Ball and socket link
- Single screen coverage
- Sweep angles – 65° 72° 80° 100° (72° default)
- Two speed with park and screen washer function with TC75228-03 switch
- Radial or pantograph arm application
- 60mm pivot centres – M8 DIN12
- 6 pin terminal block – 5 active



Part number	TV5100		TV5200	
Rated voltage	12v		24v	
Test voltage	13.5v		27v	
Brake torque	35Nm		35Nm	
Working torque	6.5Nm		6.5Nm	
	Low	High	Low	High
No load current	1.8A	2.5A	1.2A	1.8A
No load speed	40±10%rpm	60±10%rpm	40±10%rpm	60±10%rpm
Working current	5A	6A	2.7A	3.0A
Noise	50dB(A)	55dB(A)	50dB(A)	55dB(A)

E & OE

# TV5000 Series Wiper System

**TRU  
Vision**

Component breakdown:

TV5100-12v motor

TV5200-24v motor

TV5210 bracket

TV5220 Drive arm and connector link

TV5301 25mm Drive pivot

TV5302 32mm Drive pivot

TV5303 50mm Drive pivot

TV5304 75mm Drive pivot

Use with panto or radial arm

TV5401 25mm Slave pivot

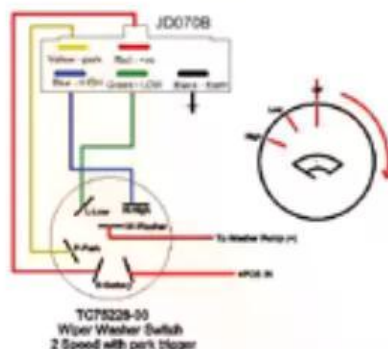
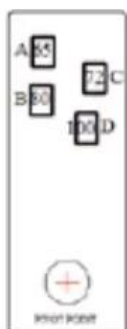
TV5402 32mm Slave pivot

TV5403 50mm Slave pivot

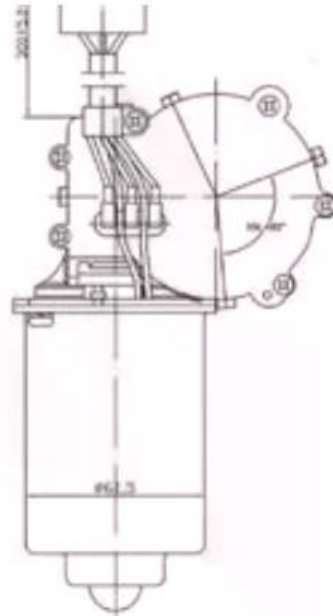
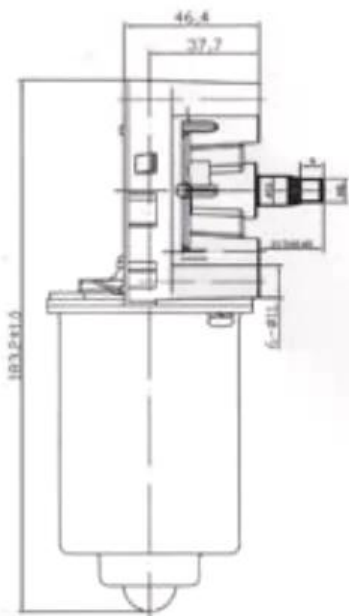
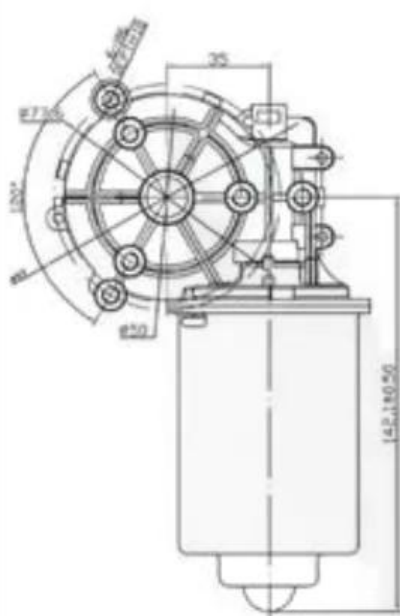
TV5404 75mm Slave pivot

Use with panto arm only

Four degree sweep options  
Default is 72°



Dynamic park



E & OE

**Wiper  
Solutions**



## Coast to park.

A motor that needs a power source to park the terminal. When the park circuit is energized the motor continues to run until it reaches its assigned park position. There, the power is disconnected on the motor's park-plate internally. The motor stops because the power is disconnected.

## Dynamic park.

A motor that is electrically locked in its park position. When the circuit is energized, the motor continues to run to its assigned park position. There, it stops very positively and will not move. This method of wiring is usually utilized where high winds or heavy snow can carry the momentum of longer arms and blades past the normal coast to park circuitry.

## Pivot mounting criteria.

DRIVE PIVOT	O/A	RANGE	NOMINAL MOUNT
TV5301 – A=25mm	91mm	9-15mm	12mm
TV5302 – A=32mm	100mm	15-22mm	20mm
TV5303 – A=50mm	117mm	33-39mm	35mm
TV5304 – A=75mm	140mm	56-62mm	60mm

### SLAVE PIVOT

TV5401 – B=25mm	60mm	7-12mm	12mm
TV5402 – B=32mm	66mm	13-19mm	20mm
TV5403 – B=50mm	85mm	30-36mm	35mm
TV5404 – B=75mm	110mm	56-62mm	60mm

## Arms-Panto

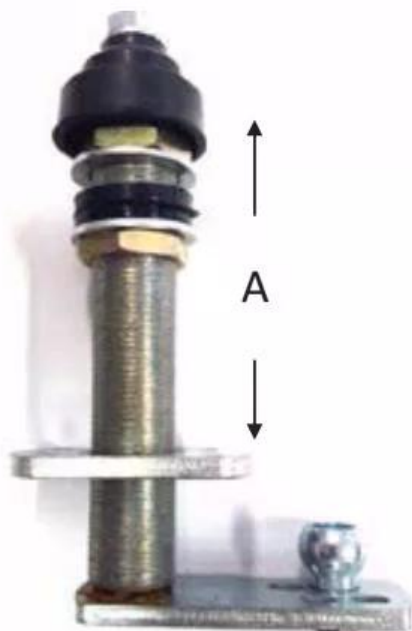
ZD1530-P-450 panto  
ZD1530-P-500 panto  
ZD1530-P-525 panto  
ZD1530-P-550 panto  
ZD1530-P-600 panto  
ZD1530-P-650 panto  
ZD1530-P-700 panto

## Arms-Radial

TC078  
ZD1230-450  
ZD1230-500

## Blades.

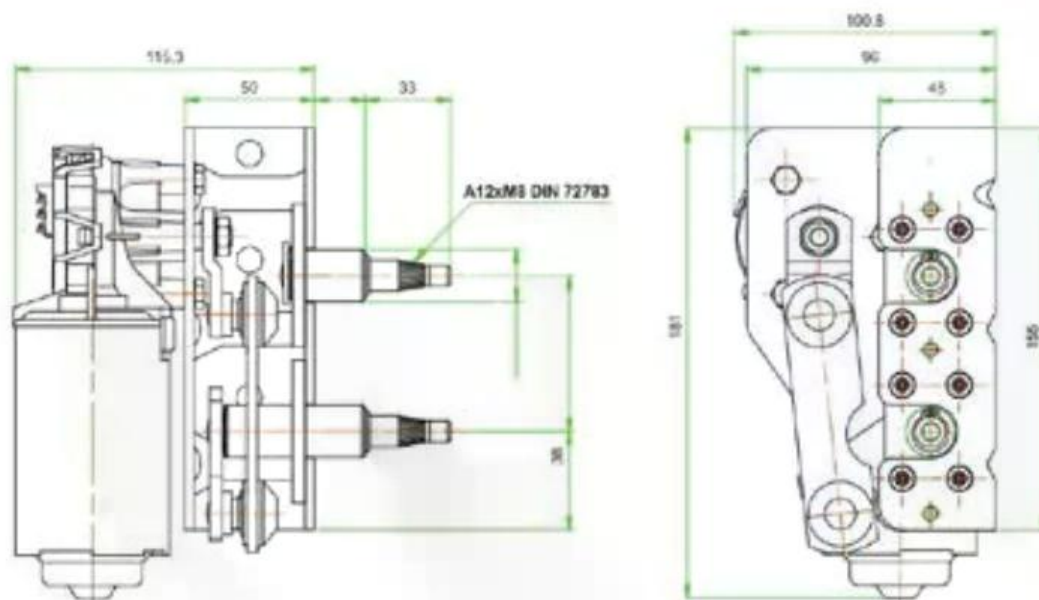
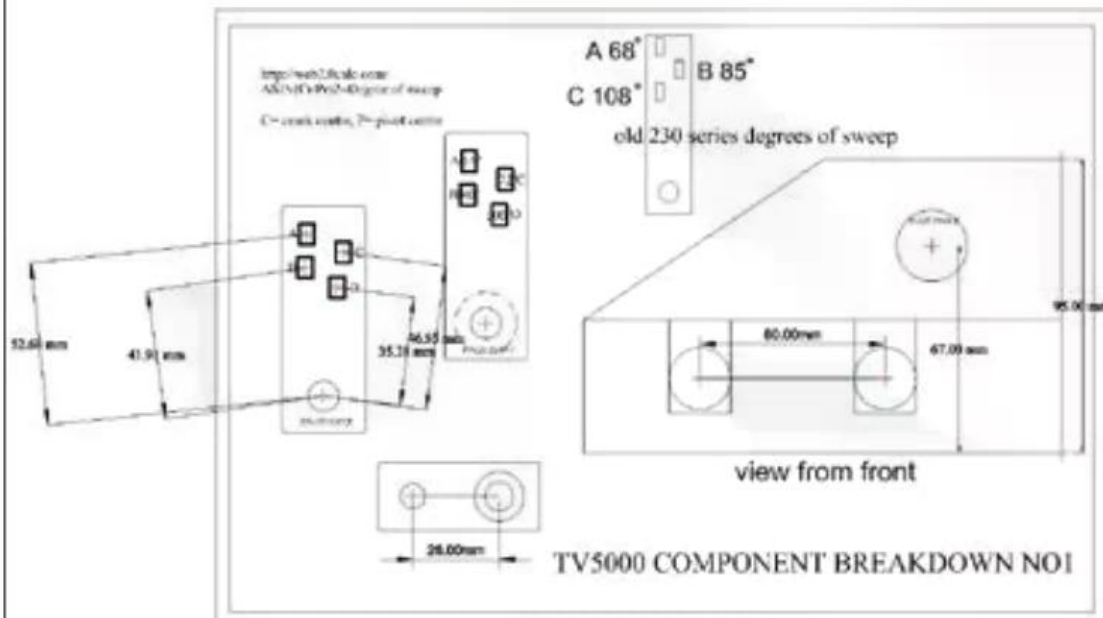
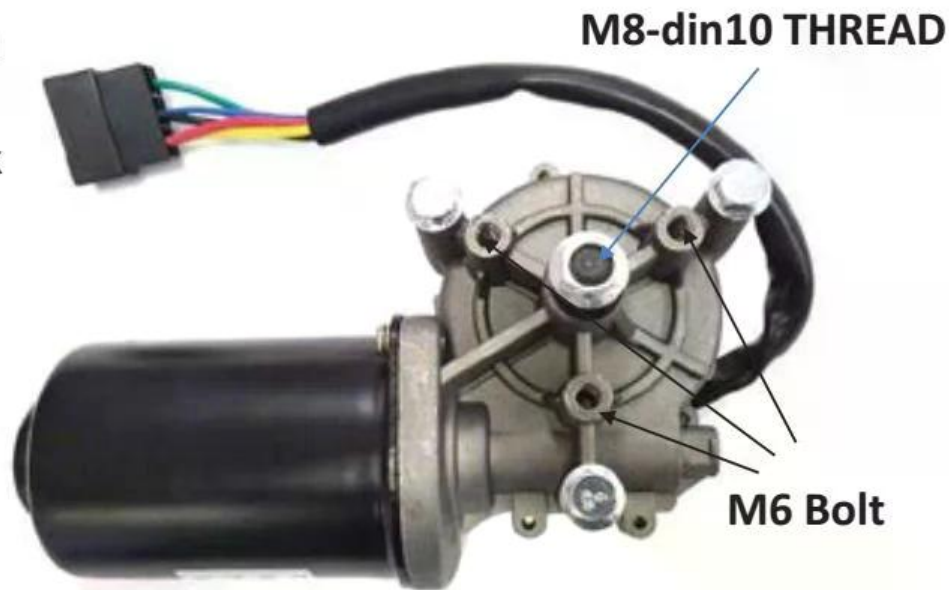
SWB blades – page 4  
TCFS flat blades – page 7  
TCCS curved blades – page 7



# TV5000 Series Wiper System

**TRU  
Vision**

Black = earth  
Red = +ve  
Yellow = Park  
Blue = High  
Green = Low



E & OE

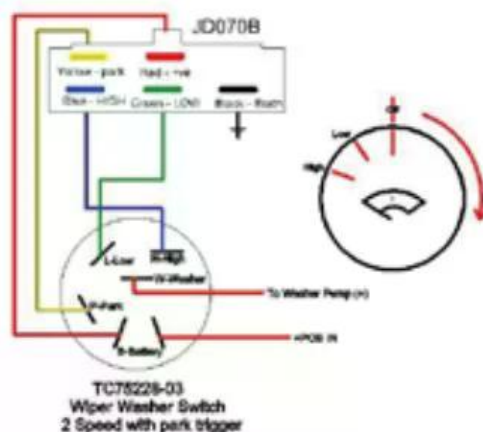
**Wiper  
Solutions**



UNITIZED ASSEMBLY PART No's: 2302015-12V 2302014-24V

## Product Description:

- Automotive and industrial
- Left Hand 230 Series Unitized Assembly
- 35Nm breaking torque
- 6.5Nm working torque
- 12v or 24v DC
- Motor drive M8-DIN10
- Dynamic park
- Single screen coverage (some twin screens possible)
- Sweep angles – 68° 85° 108° (68° default)
- Two speed with park and screen washer function with TC75228-03 switch (available separately)
- Radial or pantograph arm application
- 6 pin terminal block – 5 active
- **Suitable 230 series arms on page 13, blades 4&7.**



Hardware Kit: 3061158 (bracket, small parts and drive arm included in kit)



Spring clips #407-1022



Washers #414-1005



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



Motor mounting screws



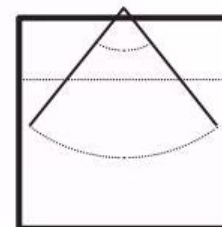
Shaft screws

10-32UNF-2B

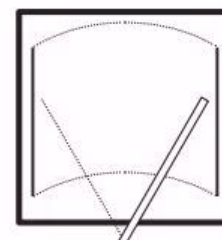


Motor shaft nut M8

Drive arm #3081051



CONVENTIONAL WIPE



PANTOGRAPH WIPE

Kit No:  
2302015 – 12Volt  
2302014 – 24Volt  
Pivot shaft shown is not included in kit.  
Hardware kit: 3061158 is included.  
All other parts ordered separately.



- **Suitable 230 series arms on page 13, blades 4&7.**

# 230 Series Wiper Kit Systems

TRU  
Vision

UNITIZED ASSEMBLY PART No's: 2302015-12V 2302014-24V

## Component breakdown:

TV5100-12v motor

TV5200-24v motor

## Fittings:

3061158 bracket and small parts  
with 3081051 drive arm

ORDER BELOW SEPERATELY AS REQUIRED.

## Other drive arms:

3081062 double length pin (used with twin/pivot screens)

3081063 double length pin (used with twin/pivot screens)

## Pivots:

3041201 A = 1" (25mm)

3041202 A = 1 1/4" (32mm )

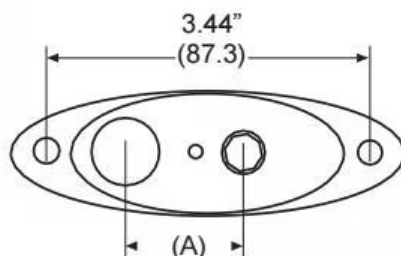
3041203 A = 2" (51mm)

3041206 A = 3" (76mm)

Arms to suit on page 13

## Pantograph adaptor:

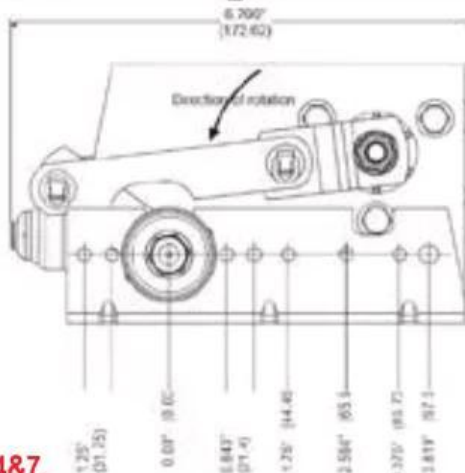
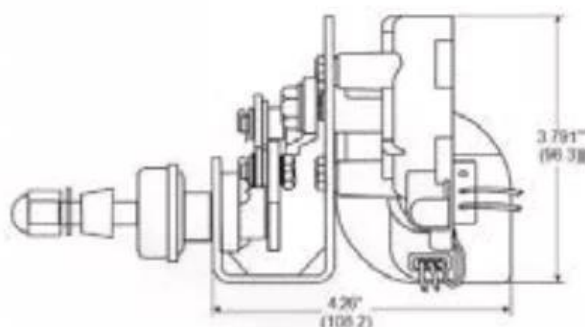
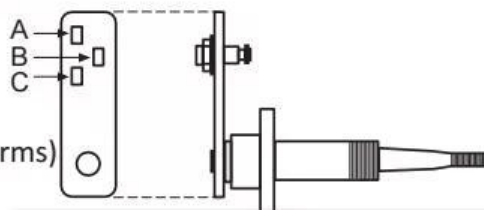
3051002 "A" = 31.75mm



A = 68°

B = 85°

C = 108° (Do not use with pantograph arms)



- Suitable 230 series arms on page 13, blades 4&7.

Wiper  
Solutions



## 230 Series Wiper Systems

## PIN LINKS AND DRIVE ARMS

**Product Type:** 230 SERIES PIN TYPE LINKS

**Make:** Tru Vision

**Application:** Automotive and Industrial

- Product Description:**
- Standard for unitized and multiple pivot wiper systems
  - Standard nylon bushings
  - Bronze bushings for heavy duty applications
  - Standard and custom lengths available
  - All bushings .31" (7.9) inside diameter
  - Typical styles shown below for identification when ordering, please list the (L) reference dimension

3071074 – adjustable 300mm - 400mm

3071075 – adjustable 450mm - 550mm

3071079 – 483mm

3071081 – 699mm

3071082 – 570mm

3071083 – adjustable 550mm - 650mm

TC02010-243mm



**Product Type:** 230 SERIES PIN TYPE DRIVE ARMS

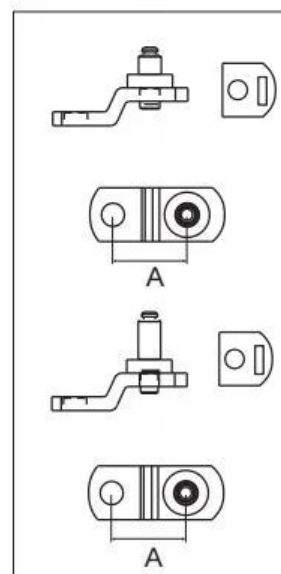
**Make:** Tru Vision

**Application:** Automotive and Industrial

3081051 "A" = 26.8mm

3081062 – double pin      "A" = 26.8mm

3081063 – double pin      "A" = 35.1mm

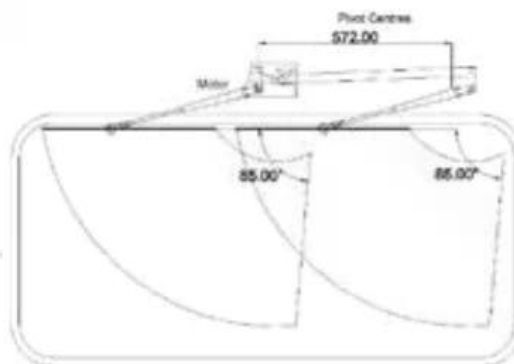
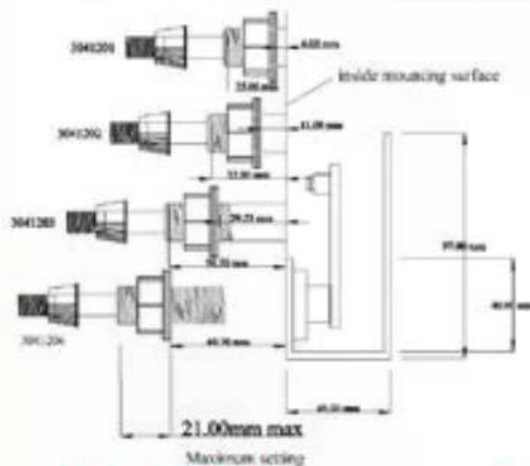


**NOTE!** 3081063 double pin sweeps

 $A = 85^\circ$ 

B = 103° (Do not use with pantograph arms)

C = 145° (Do not use with pantograph arms)



### Typical twin pivot setup

- Suitable 230 series arms on page 13, blades 4&7.

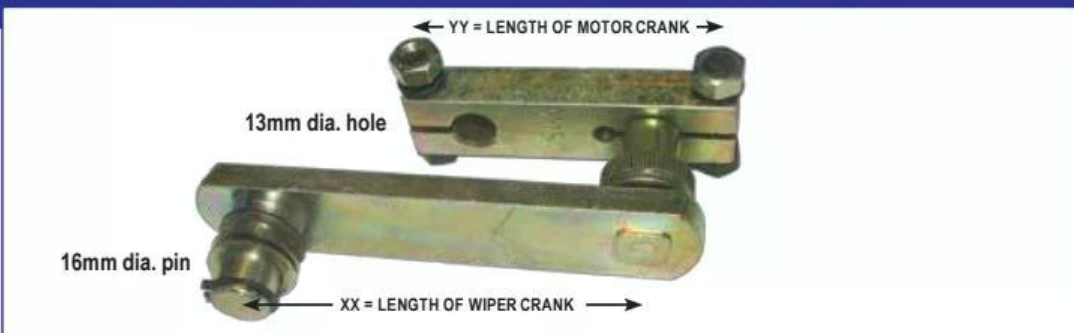
# Pivots and Linkages

**TRU  
Vision**

PART No: TC458-XXX Adjustable Linkage Series ( where XXX = Length of linkage required in mm )



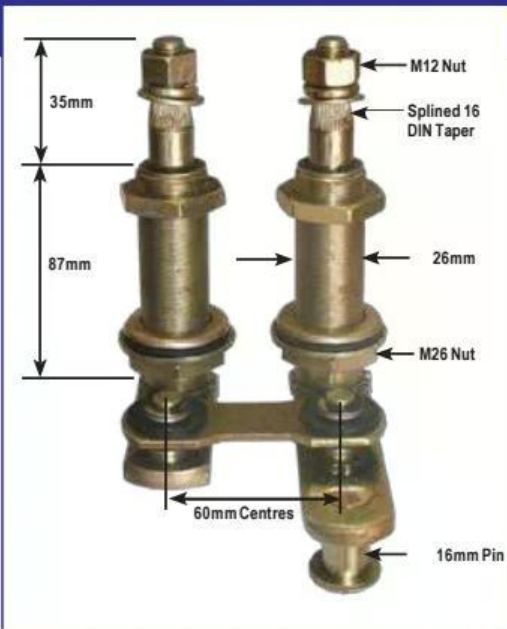
PART No: TC459-XX-YY Crank Assembly series  
( where XX = Length of wiper crank required in cm and YY = Length of motor crank required in cm )



PART No: TCxxx Crank Series Custom Made



PART No: TC456 Double Pivots



PART No: TC456-XX-YY Pivot  
REPLACEMENT FOR TRICO Part No: 75353-XX-YY



Pivots available with various length shafts in either 12 or 16 DIN tapered shafts

E & OE

*Wiper  
Solutions*



# Custom Pivot Order Form

Use this form to order custom pivots. Provide as much detail as possible. Use the numbered steps to record basic dimensional data. Also indicate whether a double or single pivot is required.

mm Thread size ①

mm Shaft diameter ②

mm Pivot diameter ③

mm ④

mm ⑤

Pin height ⑥

Pin or ball diameter ⑦

mm Pr ⑧

mm ⑨

60mm centres

In board ⑩ ☐

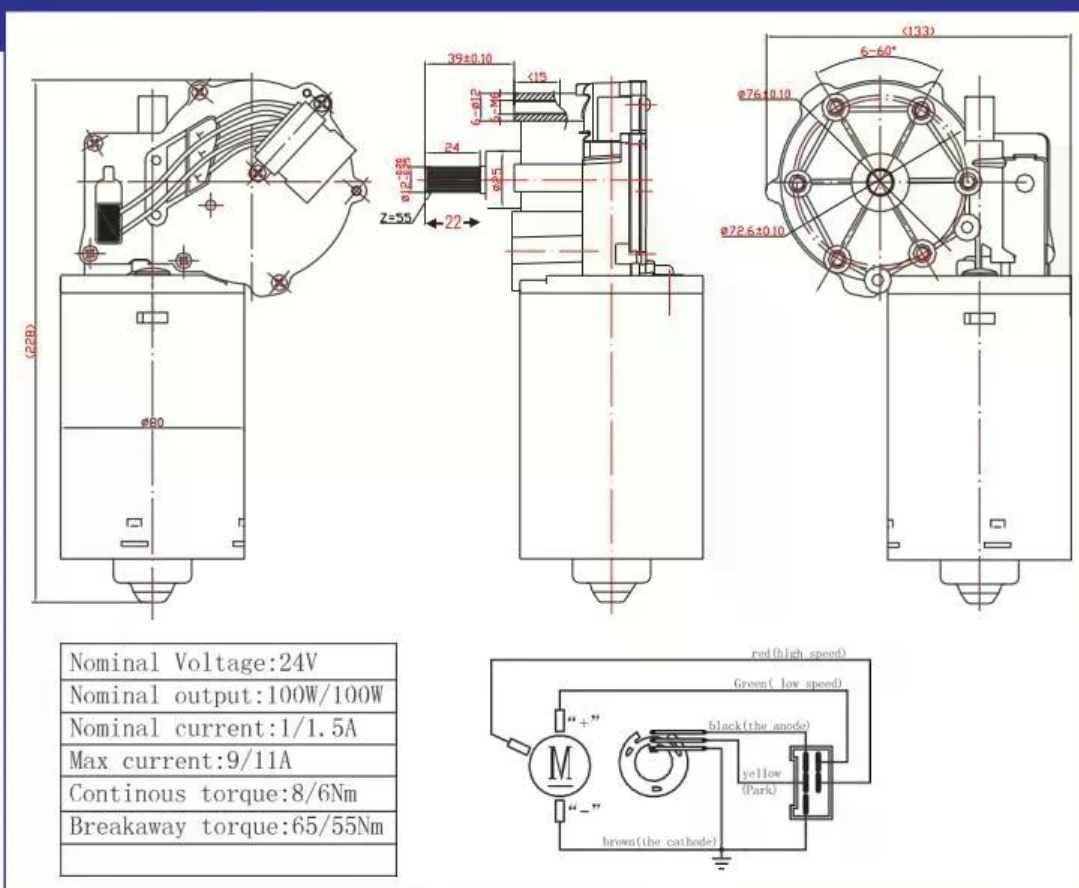
Pin or ball ⑪

or out board ☐ ⑩

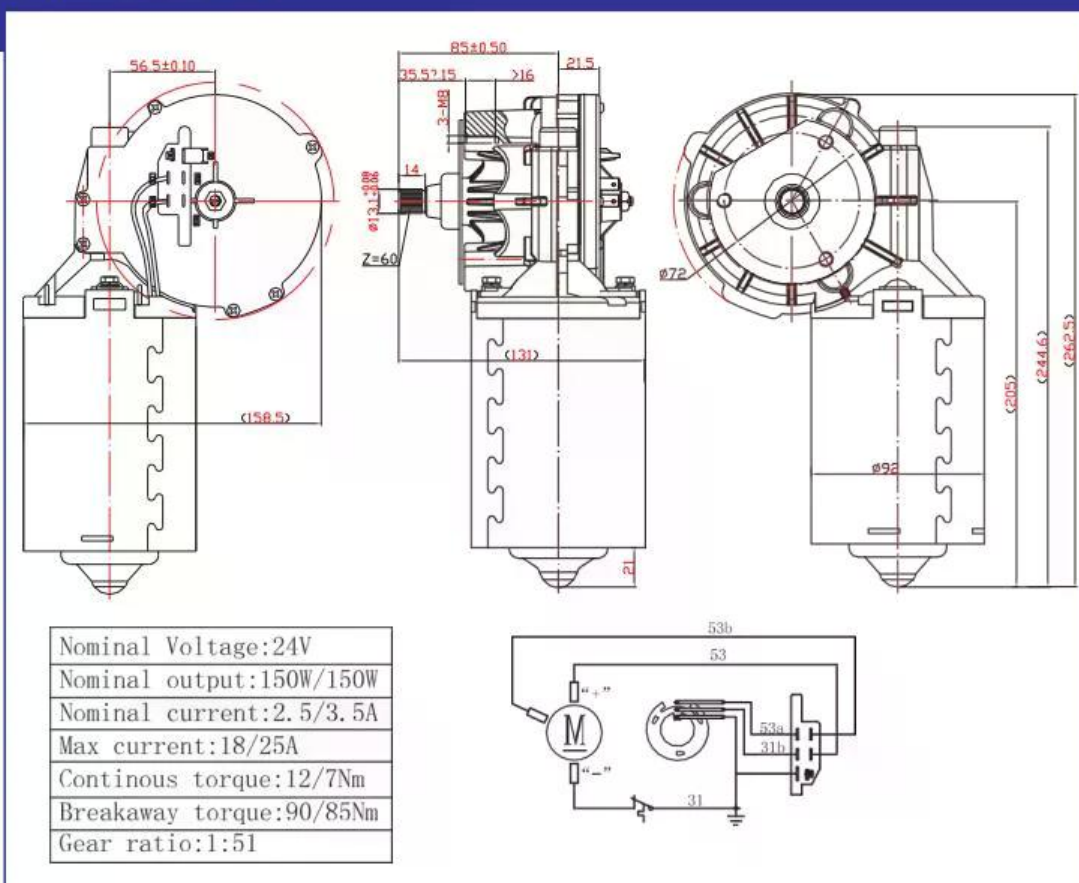
# More DC Electric Wiper Motors

TRU  
Vision

PART No: TC325 - 24 volt



PART No: TC401821 - 24 volt

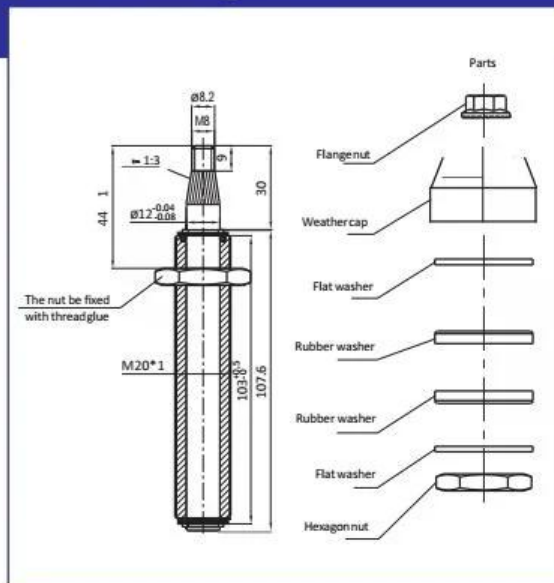


Wiper  
Solutions

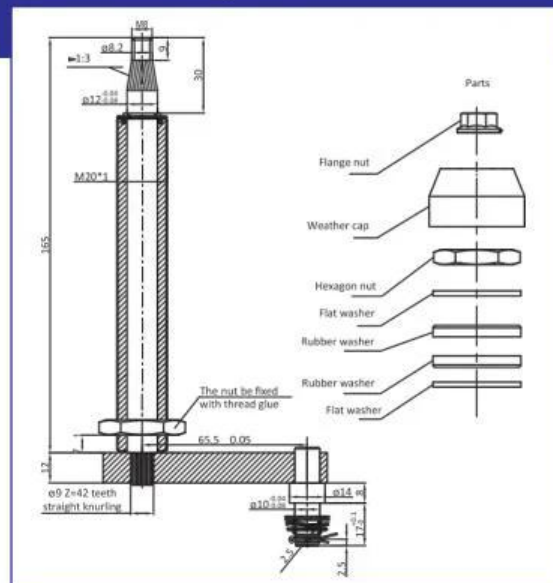


## Heavy Duty SWF Style Parts

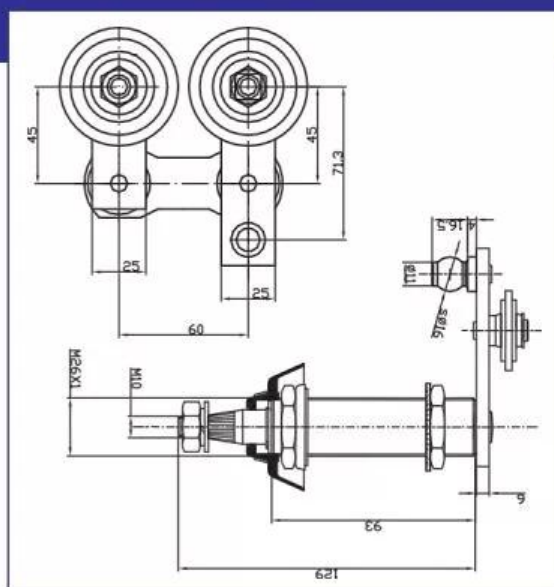
**PART No: TC102665 Single Pivot**



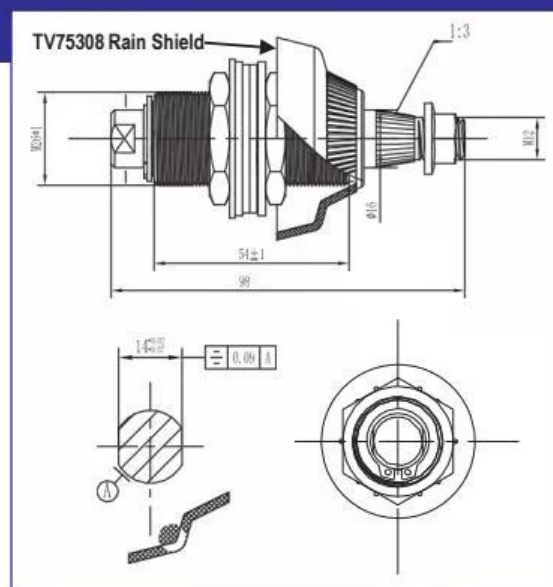
**PART No: TC102666 Single Pivot**



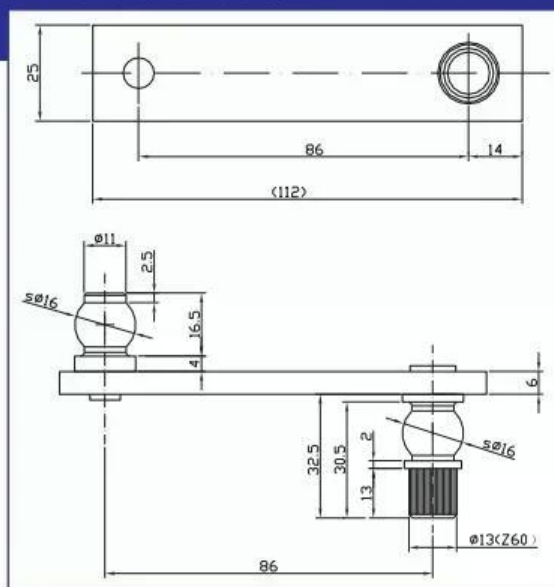
**PART No: TC107313 Double Pivot**



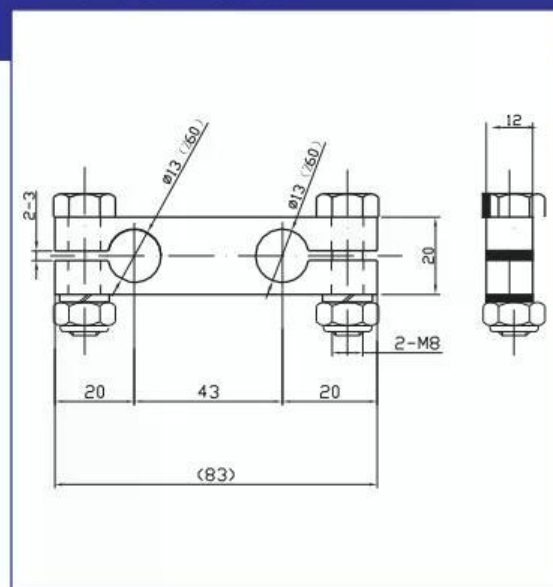
**PART No: TC106-669 Centre Pivot**



**PART No: TC189220K Lever Crank**



**PART No: TC189472 Motor Crank**



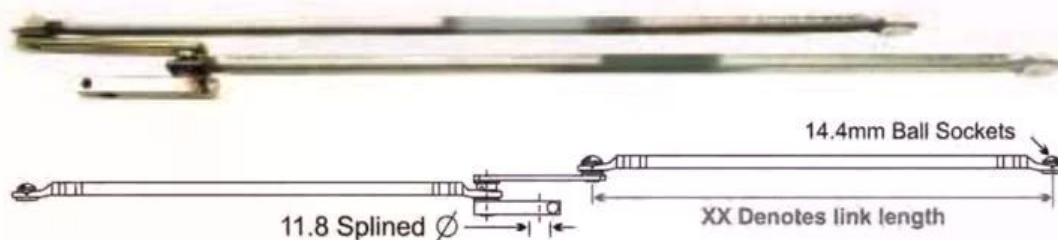
# Trico Style Pivots & Linkages

**TRU  
Vision**

PART No: TC456-XX-YY Pivot REPLACEMENT FOR TRICO Part No: 75353-XX-YY



PART No: TC75366-XXX Lengths available 465-500-525-530-550-565-585-595-630mm USE TC325T MOTOR



PART No: TV75661-12

Volgren/Trico City Bus Pivot and Linkage Assembly



PART No: DOGA LINKAGES VARIOUS



E & OE

**Wiper  
Solutions**



# Washer Bottles & Pumps

PART No: TCXD-4-12volt

PART No: TCXD-4-24volt

150mm wide  
x 190mm high  
x 90mm deep.

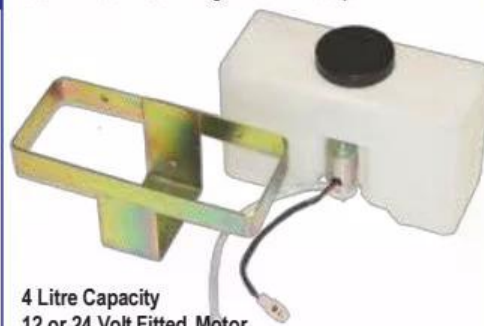


**2 Litre Capacity**  
12 or 24 Volt Fitted Motor

PART No: TCXD-2-12volt

PART No: TCXD-2-24volt

250mm wide x 160mm high x 104mm deep.



**4 Litre Capacity**  
12 or 24 Volt Fitted Motor

PART No: TCXD-5-12V

PART No: TCXD-5-24V

310mm wide  
x 280mm high  
x 130mm deep.



**5 Litre Capacity**  
12 or 24 Volt Fitted Motor

PART No: TCXD-15-12volt

PART No: TCXD-15-24volt



**15 Litre Capacity**  
12 or 24 Volt Fitted Motor

400mm wide x 190mm high  
x 240mm deep.

TCXD-6-12V TCXD-6-24V

250mm wide x 240mm high x 130mm deep.



**6 Litre Capacity**  
12 or 24 Volt Fitted Motor

PART No: TCWP15-12V

PART No: TCWP15-24V



PART No: TCWP-12V

PART No: TCWP-24V



PART No: TC109905-24V

PART No: TC109906-12V



# Washer Parts & Switches

**TRU  
Vision**

PART No: TV010-001-12V

PART No: TV010-001-12V

PART No: TCIL

PART No: TCTP 3



PART No: TVOWV

PART No: TCH4



One Way Valve



4.5mm ID Washer Hose – 6mm OD

PART No: TV284D 12V

PART No: TV100079



USE TV100079 GROMMET



PART No: TV75308

PART No: TC75228-03



16din Pivot Rain Shield



Heavy Duty Wiper Switch - 2 Speed Push To Wash  
Suits either 12 or 24 volt



# Washer Jets & Transom Mounts

PART No: TCJET777-P



PART No: TCJET777-D



PART No: TCJET881



PART No: TCWJ-01-02

PART No: TCWJ-03-04



PART No: TCWJ01

PART No: TCWJ02

PART No: TCB001



PART No: TBF01-02-03 Transom Mount

PART No: TCEC01-02-03 Elbow Connector



# Washer Jet Kits & Other Small Parts

**TRU  
Vision**

PART No: ZD1230JET-A



PART No: 301000



PART No: TV75400



PART No: ZD1230JET



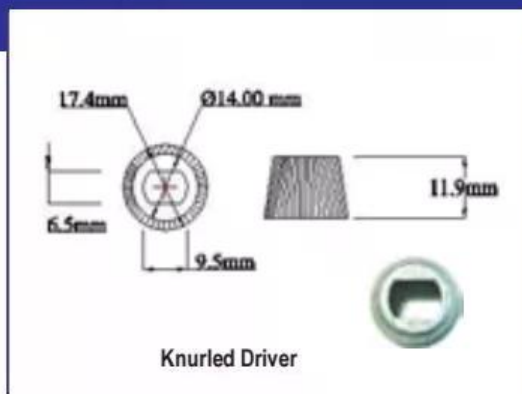
PART No: TV230J



PART No: 315-1007



PART No: TC324



PART No: TCWC-4L







**Wiper  
Solutions**



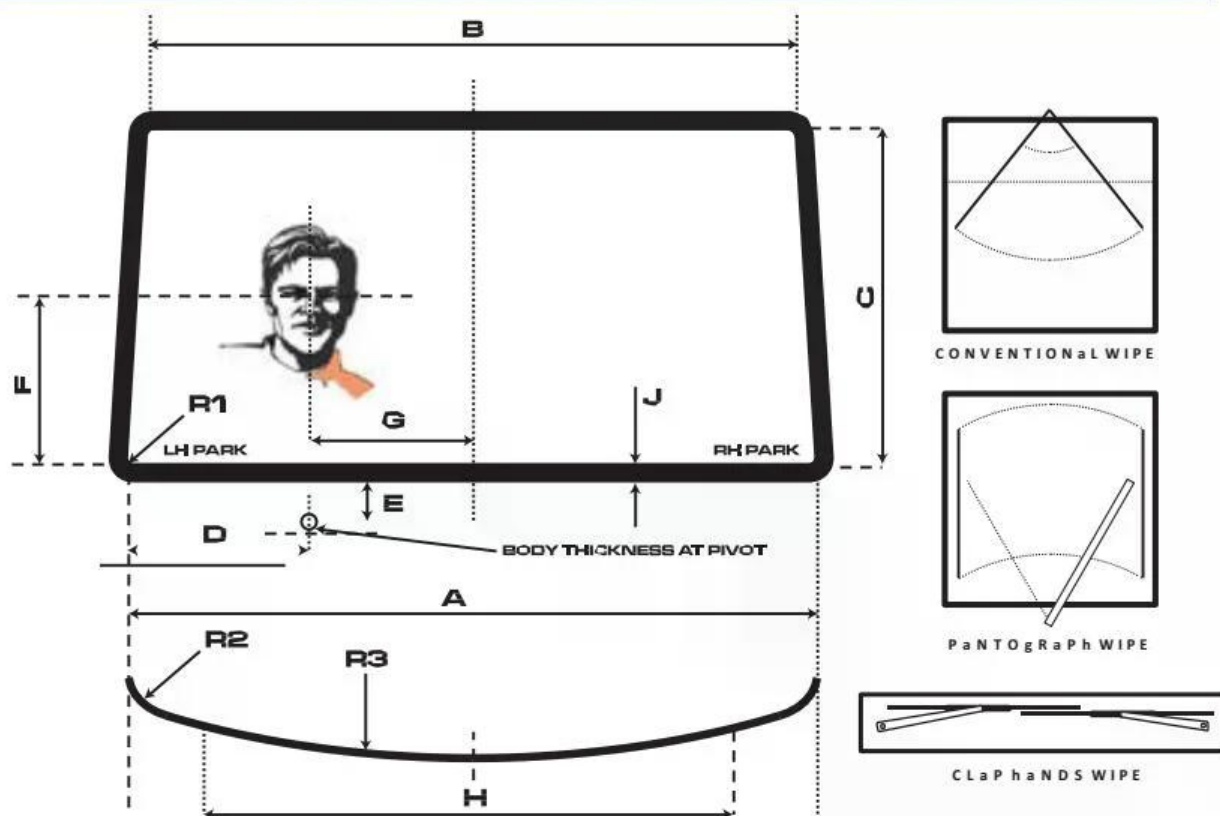
# Easy Adaptor Guide

Step One: Identify the existing wiper arm (numbers 1 to 6)  
 Step Two: Attach the necessary adaptors to the wiper arm

Existing Wiper Arm Identification	Adaptor Required
<p>1.</p>  <p>STANDARD BAYONET</p>	 <p>A1</p>
<p>2.</p>  <p>HOOK TYPE</p>	 <p>A2-1 or B-      7x9mm      6x8mm</p>
<p>3.</p>  <p>PIN TYPE - SIDE MOUNT</p>	 <p>A2-1 &amp; Pin      7x9mm</p>
 <p>STANDARD - SIDE MOUNT</p>	 <p>A2-1      7x9mm</p>
<p>5.</p>  <p>SCREW BAYONET - SIDE MOUNT</p>	 <p>T2 Front &amp; Side Views</p>
<p>6.</p> <p>PUSH-IN JAW TYPE</p>	<p>N/A</p>

# Wiper Specification Request

TRU  
Vision



## LOOKING FROM THE FRONT OF THE VEHICLE

### SPECIFICATION DETAILS

PLEASE CHOOSE MEASUREMENT DETAILS:

☐ CM ☐ MM

1. "A" Glass Width - BOTTOM: \_\_\_\_\_
2. "B" Glass Width - TOP: \_\_\_\_\_
3. "C" Glass Height: \_\_\_\_\_
4. "D" Shaft Position: \_\_\_\_\_
5. "E" Distance From Glass: \_\_\_\_\_
6. "F" Eye Level: \_\_\_\_\_
7. "G" Driver Position: \_\_\_\_\_
8. "H" Windscreen Curve: \_\_\_\_\_
9. "J" Rubber Surround Size: \_\_\_\_\_
10. "R1" Windscreen Radius: \_\_\_\_\_
11. "R2" Windscreen Radius: \_\_\_\_\_
12. "R3" Windscreen Radius: \_\_\_\_\_
13. VOLTAGE: ☐ 12 Volt ☐ 24 Volt
14. MOTOR LOCATION: ☐ TOP ☐ BOTTOM
15. BODY THICKNESS: \_\_\_\_\_
16. WIPE PATTERN: ☐ CONVENTIONAL ☐ PANTOGRAPH ☐ CLAP HANDS
17. PARK POSITION: ( see diagram ) ☐ LEFT HAND ☐ RIGHT HAND
18. IS SCREEN CURVED OR FLAT ☐ CURVED ☐ FLAT
19. IS WASHER KIT REQUIRED: ☐ YES ☐ NO
20. OTHER DETAILS: Vehicle Type, Sloped screen etc. If two blades are driven by one motor, please give relative screen position and motor location.

### COMPANY DETAILS

COMPANY NAME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CONTACT NAME: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 EMAIL: \_\_\_\_\_

Wiper  
Solutions



TRU VISION PTY LTD  
ABN: 59 065 925 126

## GENERAL WARRANTY STATEMENT

Tru Vision Pty. Ltd. (hereinafter called Tru Vision) warrants that the windscreen wiper products supplied by Tru Vision conform and perform with the published technical specifications and any accompanying written materials, and shall be free of defects in materials and workmanship, for the period of time herein indicated, such warranty period commencing upon receipt of the product.

This warranty is limited to the repair and/or replacement, at Tru Vision's discretion, of defective or non conforming product, and Tru Vision shall not be responsible for the failure of the product to perform specified functions, or any other non conformance caused by or attributable to:

- a) Any misapplication or misuse of the product.
- b) Failure of the customer to adhere to any of Tru Vision's specifications or instructions.
- c) Neglect of, abuse of, or accident to, the product.
- d) Any associated or complimentary equipment not furnished by Tru Vision.

Limited warranty service may be obtained by delivering the defective product to Tru Vision or the Distributor it was purchased through and providing proof of purchase.

Customer agrees to insure the product or assume the risk of loss or damage in transit, to prepay shipping charges to Tru Vision or it's distributor.

## LIMITATION OF LIABILITY

Except as expressly provided herein, Tru Vision makes no warranty of any kind, expressed or implied, with respect to any equipment, parts or services provided pursuant to this agreement, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. Neither Tru Vision nor it's distributor shall be liable for any other damages, including but not limited to direct, indirect, incidental, special or consequential damages, whether in an action or tort (including negligence and strict liability), such as, but not limited, loss of anticipated profits or benefits resulting from, or arising out of, or in connection with the use of furnishing of equipment, parts or services hereunder or the performance, use or inability to use the same, even if Tru Vision or it's distributor has been advised of the possibility of such damages, in no event will Tru Vision or it's distributor total liability exceed the price paid for the product.

## PRODUCT WARRANTY DETAIL

### WARRANTY PERIOD:

Tru Vision warrants all of its windscreen wiper products for one (1) year.

A extended warranty period of two (2) years can be made available under certain terms and conditions. (See Tru Vision Head Office)

### WARRANTY PROCEDURE:

Upon return of the product, Tru Vision will, at its option, repair or replace the product at no additional charge, freight prepaid, except as set forth below. Repair parts and replacement product will be furnished on an exchange basis and will either be reconditioned or new. All replaced parts or product become the property of Tru Vision.

If Tru Vision determines that the product or part is not covered by warranty, it will at the customer's option, repair the product or part using Tru Vision's standard rates for parts and labour and return the product or parts at no charge in or out of warranty.

### WARRANTY EXCLUSIVE: DAMAGES CASUED BY:

- Accidents, falls, objects striking the Tru Vision products.
- Operating the products in environments that exceed normal temperature and humidity specifications.
- Power fluctuation, high voltage discharges.
- Improper grounding, incorrect cabeling.
- Misuse, negligence by the customer or any other third party.
- Failure to install or operate the product(s) in accordance with Tru Vision manuals.
- Failure caused by improper or inadequate maintenance by the customer or any other third party.
- Floods, lightning, earthquakes.
- Water spills. (electric motors)
- Replacement of parts due to normal wear and tear.
- Product has been altered in any way.
- Product that has been exposed to repair attempts by a third party without Tru Vision's written consent.

## DISCLAIMER

Whilst all care has been taken in the preparation of the product catalogue, Tru Vision will not be responsible for any errors or ommissions contained within.

Products and specifications may be changed at any time without prior notice.

E & OE





This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





2020

Distributed by:

**TRU  
Vision**

**PREMIUM WIPER EQUIPMENT**

TRU VISION PTY LTD  
P.O. Box 1148  
Browns Plains, Qld 4118 Australia  
Ph: +61 (0)7 3806 7822  
Email: sales@truvision.com.au

PARTS OF THIS CATALOGUE ARE COPYRIGHT PROTECTED