

Blade Design Summary

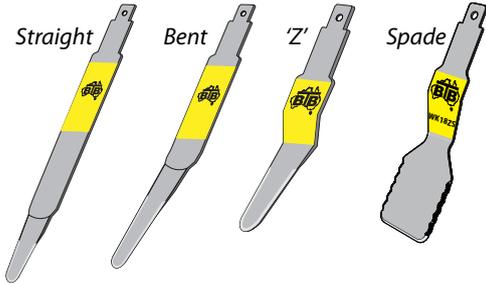
The BTB System incorporates SIX basic blade types:

- Standard Straight Blades,
- Standard Bent Blades,
- Standard 'Z' Blades,
- Standard 'Spade' Blades,
- Powered Cold Knife Blades,
- Pinchweld Trimming Blades.

BTB's Power Tools, Control System & Selected Cutting Blades have Registered Patents/Designs Extending Worldwide

Standard Blades

Straight, Bent, 'Z' and 'Spade' blades provide for a variety of lengths, flexibility, angles and blade tips.

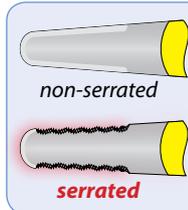


NOTE: See colour coding below

Non-Serrated vs Serrated Tips

Non-Serrated blades can be used in all removal applications.

Serrated "S" blades provide a faster and more aggressive cut for glass removal.



Blade Length

Extra blade length may be needed to reach adhesive deep below dashboards or in other long reach applications. However, in general, shorter blades provide more cutting control and a long blade should not be used if a short blade does the job.

Colour Coding

Yellow blades cut with the flat side of the blade tip facing and cutting against the glass surface.

Orange reverse blades cut with the flat side of the blade tip facing and cutting against the pinchweld, **underneath** encapsulated glass mould.

NOTE!

ORANGE & BLUE blades have their cutting tips bent opposite to **YELLOW** blades.

Green and **Blue** blades are a double bevelled safety-edge version of **YELLOW** and **ORANGE** blades respectively. See the V blades section on Page 19 for further details.

Flexibility

Flexible blades are simply ground thinner, allowing the blade to bend and follow the contour of curved glasses.

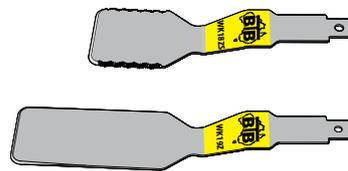
Spade Blades

NEW

BTB's new 'spade' blades provide **safe and superior control** with their **40mm wide blade and cutting edge** resting against the glass or panel surface.

Push them forward to cut with the wide face or **pull them backward** to cut with the serrated side.

Non-serrated versions are great for removing body side mouldings, emblems & nameplates.



Powered Cold Knife Blades

BTB's Powered Cold Knife Blades cut out a glass from outside the vehicle the same as a manual cold/pull knife. There is no strain on operator or physical force required because the BTB power tool does all the cutting work, more efficiently and safer for the vehicle and yourself.



NOTE: also available in reverse **Orange** grind for safely removing encapsulated glass. Refer Page 20



Pinchweld Trimming Blades

BTB's exclusive anti-scratch trimming blades are uniquely sharpened with special wings on each side, leaving a thin even layer of adhesive for re-bonding and eliminating damage to paintwork and vertical pinchweld walls.

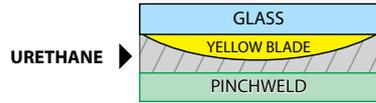


Standard Straight Blades

Applications

Standard Straight Blades are designed to cut adhesive very close to glass surface by placing the flat side of blade tip against the glass.

- Mostly used for cutting from inside vehicle,
- Easily reach urethane below dashboards or for long reach applications,
- For extra-long reach applications see WK1X and WK1ZX blades below.



Part / Length	Flexible C / Arm	Blade Image	Specific Applications
WK1 300 mm	WK1EW		Non-serrated for cutting below deep dashboards & long reach applications.
WK1-S 300 mm		<i>Serrated</i> 	Cutting below deep dashboards & long reach applications.
WK2 240 mm	WK1FW		Non-serrated for general medium reach cutting.
WK2-S 240 mm		<i>Serrated</i> 	Medium reach blade and for cutting below dashboards.
WK5 130 mm	WK1DW5		Rigid and non-serrated short general trimming blade.
WK5-S 130 mm		<i>Serrated</i> 	Rigid serrated short blade ideally suited for backfill adhesive removal in bus/truck/rail glass removals.

Extra Long Blades

Applications

These blades may be required in special and extra long reach applications to access adhesive where other blades may not reach.

NOTE! Do not use long blades when a short blade will do. A short blade brings the blade cutting tip closer to the nylon controller cap, resulting in more precise controlled cutting of adhesive.

Part / Length	Flexible C / Arm	Blade Image
WK1X 380 mm	N/A	
WK1ZX 380 mm		

All BTB Blades are designed for use in the BTB E-Tool, Air Tool and Manual Handles.



Standard Bent Blades

Applications

For general use and mostly for cutting from inside vehicle. These blades provide access to adhesive in mid-range reach applications and for curved glass where extra reach is required.

URETHANE ▶



Part / Length	Flexible C / Arm	Blade Image	Specific Applications
WK3 190 mm	WK11FW		Semi-rigid non-serrated multi-purpose blade.
WK3-S 190 mm			Semi-rigid serrated multi-purpose blade.
WK4 190 mm			Flexible non-serrated medium reach blade for curved glass applications.
WK4-S 190 mm			Flexible serrated medium reach blade commonly used for curved glass on rear hatch doors.
WK24 240 mm			Flexible non-serrated longer reach blade follows contour of curved glass and cuts hard to reach adhesive.
WK24-S 240 mm			Flexible serrated longer reach blade follows contour of curved glass on rear hatch doors and cuts hard to reach adhesive.

Standard 'Z' Blades

Applications

Mostly used for cutting from inside vehicle using cutting depth control arms to protect painted surfaces. Common applications are top and sides of windshields and other interior cutting where working close to cutting area is possible and in confined work areas. Interior trims often do not need to be removed.

TIP

Non-Serrated blades can also remove body side mouldings, emblems, decals and nameplates.



Part / Length	Flexible C / Arm	Blade Image	Specific Applications
WK4Z 140 mm	WK11AW / WK11BW5		Rigid non-serrated short blade for precise control. Can also be used to remove body moulds, badges, emblems and decals.
WK4Z-S 140 mm			Rigid serrated short blade for precise cutting from inside vehicle, along A-Pillars, top of windscreen and other flat or slightly curved glasses.
WK24Z 150 mm			Short blade with longer flexible non-serrated tip for curved glass removals. Can also be used to remove body moulds, badges, emblems and decals.
WK24Z-S 150 mm			Short blade with longer flexible serrated tip for curved glass removals.

Spade 'Z' Blades ★ NEW ★

TIP Great for cutting/separating hidden glass locator pins.



Applications

For cutting from inside vehicle, these blades provide precise stability and control with their 40mm wide flat surface resting on the glass or panel. These blades use the same depth control arms as other BTB blades.

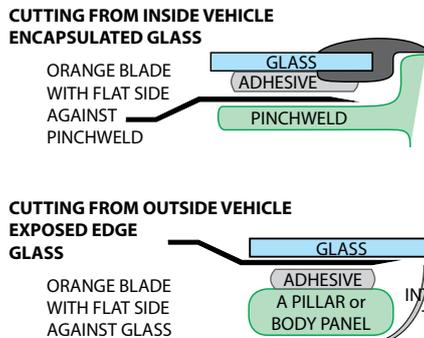
Part / Length	Flexible C / Arm	Blade Image	Specific Applications
WK18Z 140 mm	✓		<p>Windshields & Glass Removal These blades will cut in either direction either by pushing forward or pulling backward against serrated edges. Their wide tip is also great for separating glass locator pins and remaining adhesive stringers hidden behind black frit/band.</p> <p>Body Mouldings, Emblems & Badges The Non-serrated WK18Z & WK19Z allow quick, simple and damage free removal of mouldings, bump strips, decals and emblems, including thin and delicate nameplates. Their wide, flat, and smooth surface slides freely against a painted panel, causing no damage to paint or part.</p> <p>Cutting Depth Control BTB's exclusive cutting depth control arms also apply to 'Z' Spade Blades.</p>
WK18Z-S 140 mm	✓		
WK19Z 180 mm	✓		
WK19Z-S 180 mm	✓		

Reverse 'R' Blades For Encapsulated or Exposed Edge Glass

Applications

ORANGE blades are for safe removal of undamaged encapsulated glasses by cutting adhesive against the pinchweld or panel surface from inside vehicle.

Also great to use from outside vehicle with flat side of blade against exposed edge glass.



NOTE! Orange and Blue Reverse 'R' Blades have the cutting tip bent opposite to the Yellow blades



Part / Length	Flexible C / Arm	Blade Image	Specific Applications
WK4ZR-S 140 mm			Rigid short reverse blade for precise control cutting of easy-to-reach adhesive.
WK24ZR-S 150 mm	✓		Flexible short reverse blade for precise cutting and is designed to follow contour of curved encapsulated glass.
WK4R-S 190 mm	✓		Flexible medium reach reverse blade for accessing hidden adhesive and will follow contour of curved encapsulated glass.
WK24R-S 240 mm	✓		Flexible serrated longer reverse blade providing extra reach for hidden adhesives on curved encapsulated glasses.

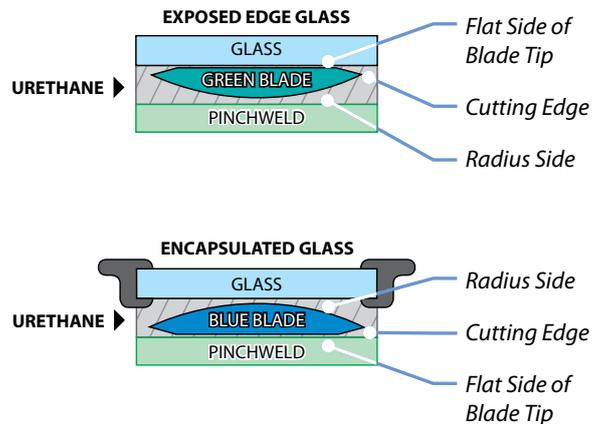


'V' & 'VR' Safety Edge Blade Design

As with the **YELLOW** and **ORANGE** blades, the flat side of these blades also steer toward the glass or panel. However, BTB's exclusive 'V' (**GREEN**) & 'VR' (**BLUE**) blades have the cutting edge suspended a small distance away from the flat surface to avoid potential damage to the painted surface or softer material panels (aluminium, fibreglass, polycarbonates). These surfaces are not flat and hard like glass, and often have high or low areas (panel joins, lap-overs or spot-welds). Like all BTB blades, the operator must select the blade that will allow the flat side of the cutting tip to face and hug the surface that you want to cut against.

Part Numbering

Safety Edge blades have a 'V' in their part number to identify them as Safety Edge Blades. eg. WK4ZV-S, WK24ZVR-S.



'V' & 'VR' Safety Edge Blades

Applications

The 'V' **GREEN** label **WK4ZV-S**, **WK2V-S** (rigid), and **WK24ZV-S**, **WK24ZV** (flexible) blades are a safety edge version of their equivalent **YELLOW** blades. They cut with the flat side against the glass. See Standard 'Z' Blades section on page 17.

The 'VR' **BLUE** label **WK4ZVR-S** (rigid) and **WK24ZVR-S** (flexible) blades are a safety edge version of their equivalent 'R' **ORANGE** blades. See Reverse 'R' Blades For Encapsulated and /or Exposed Edge Glass on page 18. They will safely remove undamaged encapsulated glass without scratching paintwork while still cutting close to the pinchweld. **BLUE** blades should be introduced into the adhesive with the flat side against the pinchweld.



Part / Length	Flexible C / Arm	Blade Image	Specific Applications
WK4ZVR-S 140 mm	✓ WK11CW	 <i>Serrated</i>	Rigid serrated short blade used for cutting against pinchweld from inside vehicle in flat or slightly curved encapsulated glass removal applications.
WK24ZVR-S 150 mm		 <i>Serrated</i>	Flexible serrated short blade used for cutting against pinchweld from inside vehicle in curved encapsulated glass removal applications.
WK4ZV-S 140 mm	✓ WK11AW / WK11BW5	 <i>Serrated</i>	Rigid serrated short blade most commonly used for cutting from inside vehicle along surfaces made of softer materials.
WK24ZV-S 150 mm		 <i>Serrated</i>	Flexible serrated tip for removal of curved glasses and for cutting against softer materials.
WK24ZV 150 mm		 <i>Serrated</i>	Flexible non-serrated short blade for removal of body moulds and emblems from concave panel surfaces.
WK2V-S 240 mm	WK11FW	 <i>Serrated</i>	This straight blade can be used with its flat side facing either surface you want to cut against.

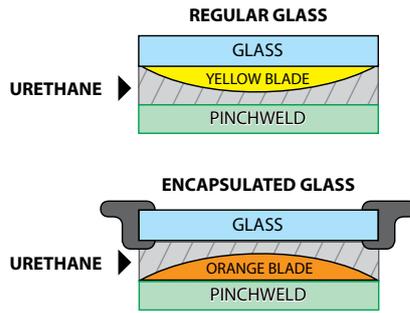
Powered Cold Knife Blades

Applications

BTB's Powered Cold Knife Blades cut underneath the glass edge **from outside the vehicle** for a fast cut-out similar to a manual cold/pull knife. However, there is no physical force, strain on operator or pressure on glass, because the BTB power tool does all the cutting work, more efficiently and far safer for the vehicle and yourself. Due to the reciprocating **in-line** blade action, these thin and smoothly polished blades can operate between most close fitted glass and pinchwelds without damage to painted pinchweld wall.

Reverse profile 'R' **ORANGE** blades are for saving expensive encapsulated glasses. They are designed to cut with the flat side of the blade against the pinchweld of vehicle body panel and underneath the encapsulated moulding.

CUTTING FROM OUTSIDE OF VEHICLE



- TIP**
1. Always start using the shortest blade tip available, then progress to longer blade tip if required.
 2. If the adhesive is set further back from the glass edge, BTB recommends an internal cut method using Standard Straight, 'Z' or Bent blades **OR** if exposed edge glass, use WK4ZR-S reverse blade from outside vehicle **as shown on page 18**.

Part / Tip Length				Blade Tip Direction
WK27S 19 mm	WK27M 25 mm	WK27L 30 mm	WK27XL 45 mm	WK27 » tip facing left
WK28S 19 mm	WK28M 25 mm	WK28L 30 mm	WK28XL 45 mm	
				WK28 » tip facing right

Part / Tip Length	Application
WK27RM 25 mm	Reverse 'R' ORANGE blades have the flat side of cutting tip down and cut underneath the encapsulation from outside the vehicle.
WK28RM 25 mm	



Part / Tip Length		Application
WK29L 30 mm	WK30L 30 mm	Wide angle allows blade to cut underneath panoramic roof frame.
WK29AL 30 mm	WK30AL 30 mm	

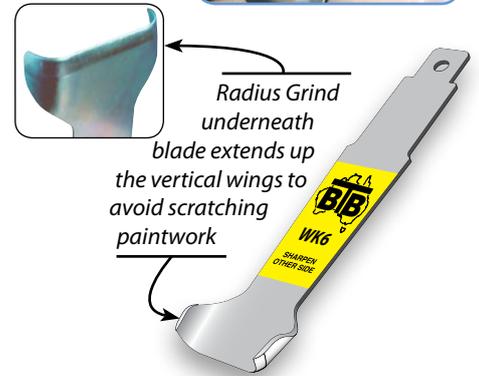


Winged Non-Scratch Pinchweld Trimming Blades

No more scratching or touching up paintwork!

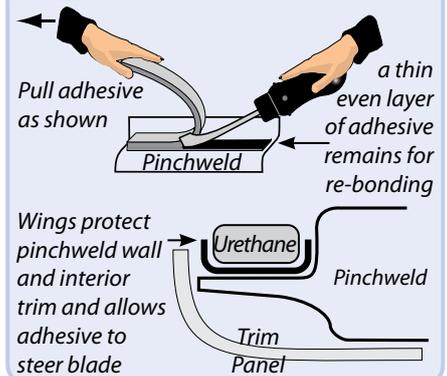
Applications

BTB's WK6 range of winged non-scratch Pinchweld Trimming Blades allow easy and safe removal of excess adhesive. They have a special and distinct radius grind cutting edge to the underside, extending up the vertical wing on each side, which avoids any damage to painted pinchwelds, including the vertical pinchweld wall, and which leaves a thin even layer of adhesive on the pinchweld for re-bonding.



Part / Width	Blade Image	Specific Applications
WK6-S 		This blade is best suited for trimming narrow beads of bonding adhesive.
WK6-M 		This blade covers most pinchweld trimming applications.
WK6-L 		This blade is best suited to trimming wider beads bonding adhesive.
WK6-SET 4 Blade Set Blades: WK6-S, WK6-M, WK6-L, WK6-40 Accessories: WK7, WKKEY		This pinchweld trimming set will cater for ALL of your adhesive trimming requirements.

HOW THESE BLADES WORK



Flat Pinchweld Trimming Blades

Part / Width	Blade Image	Application
WK6-15 15 mm		Like the winged blades, flat WK6 blades include an underside radius grind.
WK6-25 25 mm		They are good for general trimming applications.
WK6-40 40 mm		The WK6-40 blade is great for trimming wide adhesive beads on buses and trains.

NOTE!

✪ WK6 blades are excellent for removing urethane embedded with shattered glass. ✪ Auto Body repairers can use these for body deadener, hemlock and seam seals.



All BTB Blades are designed for use in the BTB E-Tool, Air Tool and Manual Handles.



Adhesive Backfill Removal Blades

Applications

Backfill removal blades are used to quickly remove adhesive backfill from between panel & glass edges and are excellent for buses, trains, RV's, marine (including decking removal) and a range of other backfill removal applications.

Select WK5-S blade or WK17 blade options below.



WK5-S Blade



WK17 Blade

Part / Length	Blade Image	Cutting Technique	Result
<p>WK5-S</p> <p>130 mm</p>	<p><i>Serrated</i></p>	<p>OPERATE AT 45° TO GLASS FOR BOTH 1st AND 2nd CUT</p>	

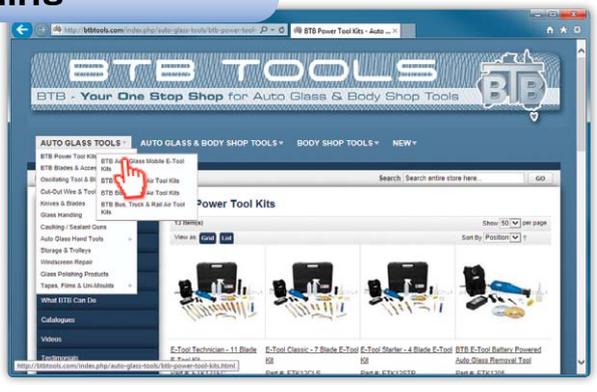
Part / Channel	Blade Image	Cutting Technique
<p>WK17-6</p> <p>6 mm</p>		
<p>WK17-4</p> <p>4 mm</p>		

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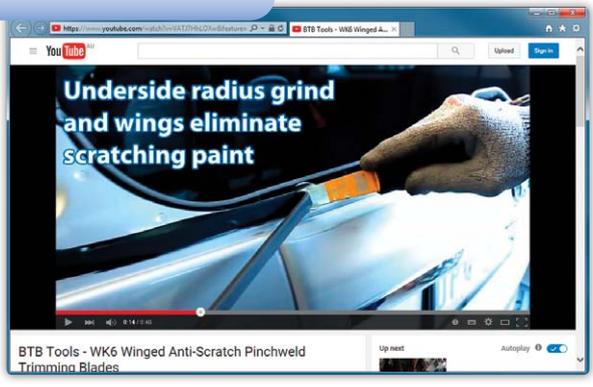
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Videos Online

BTB Tools have an extensive collection of product videos online to provide greater insight into features, benefits and use of the tools. Wherever you see the video symbol throughout this catalogue you can go online and experience the product for yourself.

 See the tool in action at btbtools.com/videos



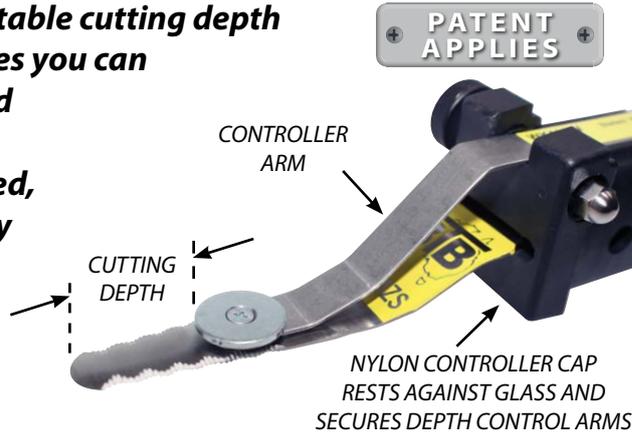
Technical Information Online

The BTB Air Power Tool and 12 Volt Battery Powered **E-TOOL** are both supplied with a training DVD and comprehensive User Manual which includes valuable technical information, hints, tips.

The btbtools.com website also covers a range of additional technical information for the BTB system and other tools.

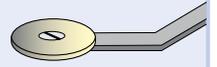


BTB's patented adjustable cutting depth control system ensures you can cut with precision and confidence and only cut as deep as required, avoiding unnecessary damage to the pinchweld, blade, mouldings or glass.

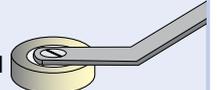


CONTROLLER ARM WHEELS

Controller Arms with the **THIN** 1mm wheel are designed to roll smoothly along uneven (in and out) urethane surfaces.

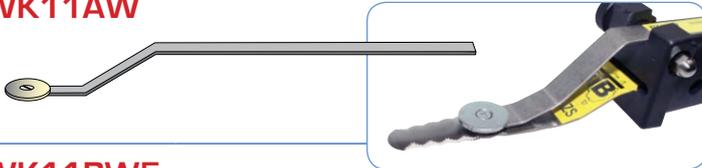


Controller Arms with the **THICK** nylon wheel are designed to roll along A-pillar trim, soft headliner or vehicle body panel.

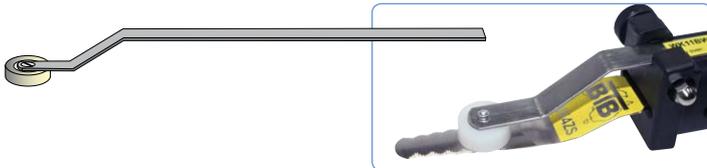


Controller Arms For 'Z' Blades

WK11AW

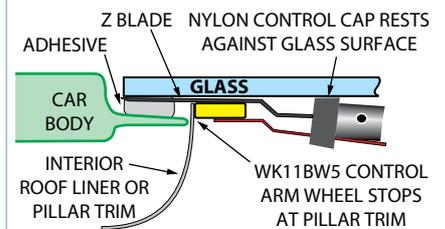
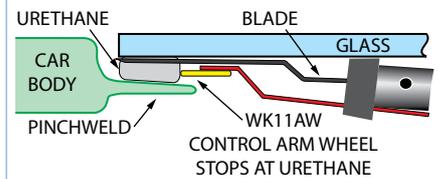


WK11BW5



For Blades:

- WK4Z,
- WK4Z-S,
- WK18Z,
- WK18Z-S,
- WK19Z,
- WK19Z-S,
- WK24Z,
- WK24Z-S,
- WK24ZV,
- WK24ZV-S.



Controller Arm For Reverse Blades

WK11CW



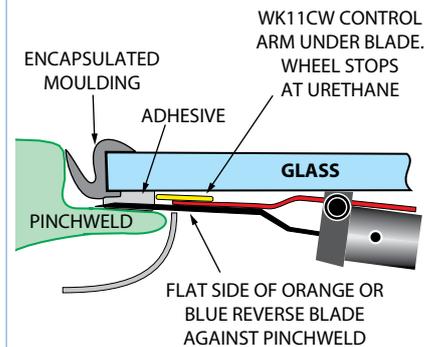
While cutting against pinchweld (**not against the glass**), use the WK11CW control arm underneath all **ORANGE** and **BLUE** reverse blades, to provide support to reciprocating blade and avoiding flapping.

IMPORTANT!



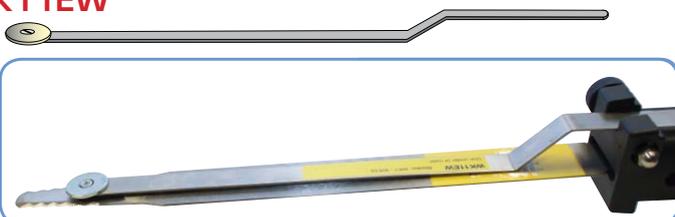
For Blades:

- Long end for:
 WK24ZR-S,
 WK24ZVR-S,
 WK24R-S.
- Short end for:
 WK4ZR-S,
 WK4ZVR-S,
 WK4R-S.



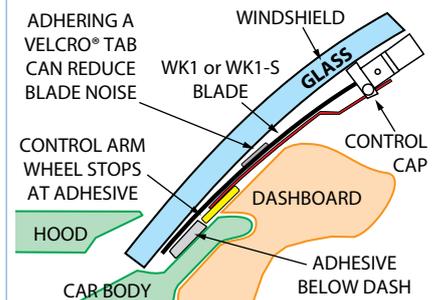
Controller Arm For Long Blades

WK11EW



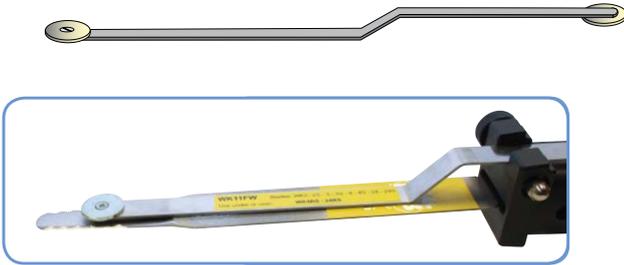
For Blades:

- WK1,
- WK1-S

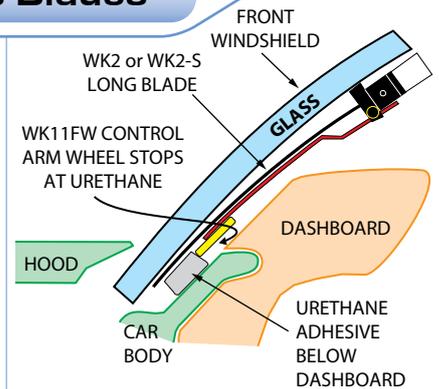


Controller Arm For Mid-Length Straight & Bent Blades

WK11FW



For Blades:
 Long end for:
 WK2, WK2-S,
 WK2V-S, WK24,
 WK24-S.
 Short end for:
 WK3, WK3-S,
 WK4, WK4-S.

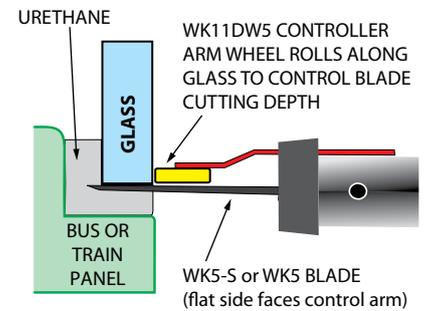


Controller Arm For Short Straight Blades

WK11DW5



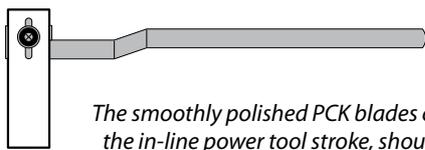
For Blades:
 WK5,
 WK5-S.



Paint Protector For Powered Cold Knife (PCK) Blades

WK11PP

Includes 2 x spare protection strips



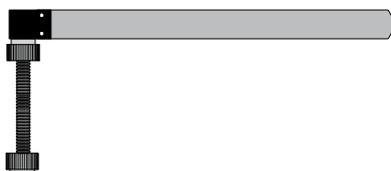
The smoothly polished PCK blades combined with the in-line power tool stroke, should not scratch paintwork. However the WK11PP provides additional paintwork protection and stops blade contacting pinchweld wall or panel corners.

For Blades:
 WK27 range,
 WK28 range,
 WK29 range,
 WK30 range.

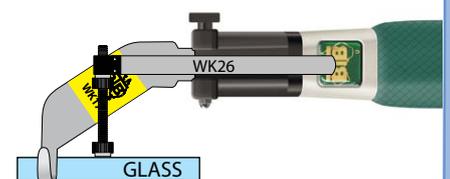


Controller Arm For Backfill Removal Blades

WK26



For Blades:
 WK17-6,
 WK17-4.



Tool Kit Accessories

WKGA KIT ACCESSORY PACK

All items below are in the WKGA kit and available separately. The WKGA kit is included with every BTB power tool.

WKKEY
4mm Allen Key



SPB34-5
Saw Guide



WK100B
Oil Bottle with Oil



SPB33F
Flat Nose Grub Screw



for use with
hack saw blade

24 Teeth/Inch
Hacksaw Blade



HACKSAW BLADES – PACKS OF 5

Part	Teeth / Inch
WK610	18
WK620	24
WK630	32



TOOL KIT PACKAGING

WKBX Replacement
Sturdy
Plastic
Tool Kit
Box



MANUAL HANDLES (for all blades)

WK7
Manual Blade Handle



WK7L
Manual Blade Double Handle



KIT COMPONENTS

WK20
Plastic Paddle/Lever Tool



WK8DSM
Diamond Grit
Blade Sharpening Stone



WK11VEL Velcro® Self
Adhesive Round Pads - Pkt 25



WK9
Cutting Lubricant
Spray Bottle with
Adjustable Nozzle



WK9B
Cutting Lubricant
Concentrate Bottle
for reserve supply



TRAINING MATERIAL

WK12DVD
Auto Glass Removal
Intro & Training DVD

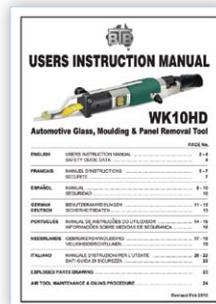


Training information and videos are also available at:
btbtools.com/videos

CAT-UME
BTB E-Tool
User Manual



CAT-UMA
BTB Air Tool
User Manual



E-TOOL Accessories

E-TOOL BATTERIES

ETS12B5
12 Volt 6Ah
Battery in
Carry Bag



NOTE: #ETS12B5 must be charged with #ETSCAC Charger.

ETSB5
E-Tool
12V 6Ah
Replacement
Battery

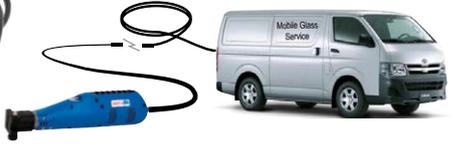


E-TOOL 12 VOLT EXTENSION CABLES ★ **NEW** ★

ETSCEXMP
2 Metre
Extension
Cable with
Merit Plug & Socket



Plug into mobile vehicle power via vehicle mounted socket



ETSCEXAC
2 Metre
Extension
Cable with Merit
Socket & Battery Clamps



Connect to portable 12 volt battery or battery pack



E-TOOL BATTERY CHARGER AND AC POWER SUPPLY CORDS

ETSCAC Battery Smart Charger

Includes an AC power supply cord. Please specify your preferred country-specific power supply cord when ordering.

Use only AC or pure sine wave input.



NOTE: #ETSCAC is used to charge ETS12B5, not ETSB5.

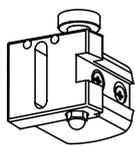
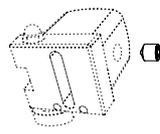
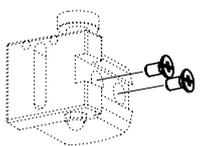
COUNTRY-SPECIFIC AC POWER SUPPLY CORD

<p>ETSCACAU</p> 	<p>ETSCACUK</p> 
<p>ETSCACUS</p> 	<p>ETSCACEU</p> 

E-TOOL™ & AIR TOOL Spare Parts, Servicing & Repairs

For **E-TOOL™** and **WK10HD** servicing and repairs please contact your **BTB** supplier.

NYLON CONTROLLER CAP PARTS (SUIT BOTH WK10HD AIR TOOL AND E-TOOL™)

<p>SPB34K Nylon Controller Cap Assembly</p> 	<p>SPB33 Cone Point Blade Chuck Screw</p> 	<p>SPB32 Controller Cap Screw</p> 
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For other WK10HD Air Tool AND **E-TOOL™** spare parts see the respective User Manuals.

