# BTB Auto Glass & Body Shop Tools

# Flexible Adhesive Cutting System





# One System Any Glass, Panel or Part Servicing Every Industry







- Construction
- Public Transport
- Marine & Aviation
- Heavy Commercial
- Mining & Agriculture















# BTB Tools is Australia's One Stop Shop for specialised tools, accessories and consumables to the auto glass repair & replacement, collision repair, and a variety of other industries.

#### A Family Business with Customer Service at its Heart

From his early days in the collision repair and windscreen repair & replacement industry, the company founder, Trevor Lock, identified a need for better tools to service the industry. The company's flagship BTB Glass & Panel Removal System was born in the mid 1980's and has evolved to the world class tool it is today. BTB spans two generations with Trevor's daughter Kylie, and son Craig who also began his career in the auto body repair industry.

#### Industry Knowledge & Training

With over 60 years hands on professional experience in the auto glass & collision repair industry, BTB are qualified industry experts. BTB are technological leaders for the safe removal of adhesive fitted auto glass, bonded panels & components, have in-house training facilities and provide technical support for the tools we sell.

#### **On-Site Manufacturing**

BTB's patented and unique specialised products, including the BTB Glass & Panel Removal Power Tools and Cutting blades, are manufactured on site at our BTB Head Office in Bendigo, Victoria, Australia.

### **Extensive Product Range**

Offering a comprehensive range of specialised hand tools, power tools and accessory products, BTB's warehouse carries over 1000 tool and accessory line items dedicated to auto glass and collision repair specialists.

### Servicing Every Industry

BTB's unique cutting system is used in every industry requiring cutting tools to remove adhesive fitted glass, panels and parts.

#### National and International Reputation

BTB Tools products are distributed nationally through our dedicated distribution network. We have an international reputation and export our BTB adhesive cutting system to over 50 countries worldwide.

#### **Prompt Service and Delivery**

BTB prides itself on its high standard in Customer Service. Responding to product enquiries is given top priority. BTB manufactured products are also backed by our in-house tool service / repair centre.

#### New Products & Continuous Improvement

BTB continuously reviews its product range and looks for products to meet new and existing needs in the industry. New products are frequently added to the range.

Improvements and enhancements are also made to our BTB adhesive cutting system tool and blades, to take advantage of new breakthroughs in manufacturing and materials technology, and to cater for new vehicle models and industry trends.

#### **Terms & Conditions**

All product returns must be approved prior by BTB and be within fourteen (14) days from receipt of delivery. Incorrectly ordered product returns may be subject to a restocking fee. Returned goods shall be in their original and unmarked condition, complete with any instruction sheets supplied.

The following goods cannot be returned for credit under any conditions:

- Any goods specially made, including items cut to length
- Any goods used, altered or damaged by the purchaser
- All product returns must be freight prepaid by the sender.

All orders are to be prepaid unless trading terms are agreed prior by BTB. Prices and availability are subject to change without notice.

The supply of items may vary from time to time from the actual images shown in this catalogue.

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Note that BTB's distributors may have additional terms and conditions to the above.



# BTB TOOLS are your one stop shop for auto glass & body shop tools.

# **CONTENTS**

# THE BTB SYSTEM

ABOUT THE BTB SYSTEM	page 4
TOOL POWER OPTIONS	page 5
TOOL SPECIFICATIONS	page 5
APPLICATIONS	pages 6 - 7







Windshield & Other Glass Removal

Challenging Body Shop Glass Removal

Bus, Truck, Rail & Other Industries

# **TOOL KITS**

**AUTO GLASS** MOBILE 12 V **E-TOOL** KITS Pages 8 - 9

**AUTO GLASS** AIR TOOL KITS Pages 10 - 11



**BODY SHOP** AIR TOOL KITS Pages 12 - 13



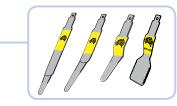
**BUS, TRUCK** & RAIL AIR TOOL KIT Page 14



# **BLADES**

**BLADE DESIGN SUMMARY** Page 15

**STANDARD BLADES** Pages 16 - 18



**STANDARD** REVERSE **BLADES** Page 18

SAFETY 'V' EDGE **BLADES** Page 19

POWERED **COLD KNIFE BLADES** Page 20

**PINCHWELD** TRIMMING **BLADES** Page 21

BACKFILL REMOVAL **BLADES** Page 22





# **TOOL & KIT ACCESSORIES**

**BLADE CUTTING DEPTH CONTROL** Pages 24 - 25

**RESUPPLY ITEMS** Pages 26 - 27



# ABOUT THE BTB SYSTEM

# INTRODUCTION

BTB's unique and patented system has been designed to remove all types of adhesive fitted glass and components. Its speciality is Automotive glass, including those with encapsulated or bonded mouldings and/or where adhesive is difficult to reach or hidden far below the dashboard. Equally it is superior in removing adhesive fitted body panels and side/body mouldings. All without damage to painted panel, glass or component.

# Versatility

The BTB system's **versatility** allows you to cut from inside or outside of the vehicle, against the glass surface, or in the case of an encapsulated glass, the reverse 'R' blades will safely cut against the pinchweld or body panel and away from the encapsulation.

# **Two Power Tool Options**

BTB's renowned Air Powered Tool or our new 12 Volt Battery Powered **E-TOOL**.

# **Precision and Control**

Cutting blade precision and control for both tools comes from their short and fast in-line reciprocal (in-out) stroke, adjustable speed and power, and the adjustable **cutting depth control** system. The **non-aggressive action** of both tools also minimises risk of vehicle damage or operator injury. **Force is eliminated** and expensive undamaged glasses and mouldings can be re-used.

# Intelligent Design

- All blades can be used in the BTB Air Tool or the **ETOOL** and can also be used in BTB's manual handles.
- Blades can be quickly interchanged in less than 10 seconds.
- The controller cap on both power tools is made from nylon, designed to rest on the glass while cutting from inside the vehicle, correctly aligning the blade and avoiding scratching glass or painted panels.
- Both power tools also operate as a very powerful and effective power hack-saw.



**One System**, two power tool options. Servicing any Industry, Any Vehicle, Any Glass, Any make or model, Every Time!

# Low Hand - Arm Vibration (HAV)

Both the Air Powered Tool and 12 Volt Battery Powered **€ TOOL** conform to ISO5349, ISO8662 and **C** € standards.

# Quality Manufacture by BTB

Both the Air Powered Tool and 12 Volt Battery Powered **E-TOOL** are unique, custom built tools providing quality, power, precision and low vibration. They are small, compact, light-weight and user-friendly, with proven reliability and long life, requiring minimal maintenance.

# Training Package & User Manuals

Every **ETOOL** and Air Tool comes with a Training Video and detailed User Manual, providing excellent and valuable guidelines, hints and tips for most cut-out and glass types. A level of skill and proficiency quickly develops from applying the system to a range of cut-out applications.



# **Tool Kits & Individual Components**

BTB offer a range of industry-specific tool kits. Also any power tool, blade, or tool kit accessory can be purchased separately.



Professional Tool Kits



**Blades for All Applications** 



Cutting Depth Control



Pinchweld Trimming Blades

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# TOOL POWER OPTIONS & SPECIFICATIONS

Both versions of the power tool:

- use the same blade cutting depth control arms,
- have low noise and vibration levels,
- have precise & powerful cutting performance,

## BTB **ETOOL** 12V Power Options

Along with its total portability, the E-Tool:

- has a faster and shorter stroke, eliminating hot blades and smoke, also avoiding kickback from incidental blade contact.
- allows Power Cold Knife blades to also be pulled backwards (eg. Up an 'A' pillar).

The BTB E-Tool is available with a small portable 12 volt battery pack, however you can use your own 12 volt power supply.

BTB's Shoulder Battery Pack

6 Ah Battery: ▶ 6 to 8 cut-outs 12V Carry Pack or Vehicle Battery 12 to 40 Ah Battery:

15 to 40 cut-outs



via Vehicle Battery

An AC Transformer Supplying 12 Volt Power

Unlimited 12V power: • Unlimited cut-outs

# **BTB Air Tool Air Supply Options**

The BTB **WK10HD** Air Tool consumes a small volume of air and is generally powered via a workshop air supply,

**OR** for portable use in a mobile repair van, simply use a small fully portable air compressor,

**OR** for quiet and total portability, use a bottle of Carbon Dioxide (CO<sub>2</sub>) fitted with a pre-set pressure regulator.

The WK10HD is a small but superior powered air tool for every-day use and recommended for

are compact and light weight,

use the same blades and accessories,

• are available in industry-specific tool kits.

The 12 Volt Battery Powered

**ETOOL** is specifically

designed for Mobile

Installations.

workshop or heavy duty use.



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# **E-TOOL**<sup>®</sup>

### **Tool Specifications**

	•
Free Speed (Cycles Per Minute)	6,400
Reciprocal Stroke Length	4 mm [ 1/8" ] (fixed)
Noise at 1 metre	80 dBA
Vibration Emission Value A <sub>hv</sub>	8.03 m/s <sup>2</sup>
Tool Weight	1.3 kg [ 2.87 lb ]
Overall Length (Excluding Lead)	280mm [ 11" ]
Warranty (on Tool)	1 year
Motor Power Output	112 W
Voltage Input	12 V DC
Battery Charger Voltage Input	110-240 V AC

Free Speed (Cycles Per Minute)	6,500
Reciprocal Stroke Length	0 - 6mm [ 1/4" ] (variable)
Noise at 1 metre	77 – 79 dBA
Vibration Emission Value A <sub>hv</sub>	7.6 m/s <sup>2</sup>
Tool Weight	1.15kg [ 2.53 lb ]
Overall Length Excluding Hose	260mm [ 10 ¼" ]
Warranty (on Tool)	2 years
Air Inlet	[ 1/4" NPT ]
Max. Air Pressure	6.2 Bar [ 90 PSI ]
Air Consumption [ Free Air Delivery ]	60 - 140 Litres /min [ 2 - 5 CFM ]



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BTB's Power Tools, Control System & Selected

Cutting Blades have Registered Patents/Designs Extending Worldwide

### **Auto Glass Removal Applications**



Many glass removals, most specifically if undamaged and to be re-installed, may require different or a combination of cut-out techniques. BTB's precise, smart and versatile air or battery powered system allows you to cut the adhesive:

- using no stress or force,
- from outside the vehicle,
- against the glass surface, or
- against the pinchweld/panel surface, avoiding contact with the encansulat
- from inside of the vehicle,
- avoiding contact with the encapsulation

Long flexible blades easily **REACH URETHANE BELOW DASHBOARDS** including double beads and difficult adhesives on side and back glasses.



Cut from outside vehicle with **POWERED COLD KNIFE BLADES** for a fast cut-out without physical force to the glass or technician's limbs.



PRECISE CUTTING from INSIDE VEHICLE with BLADE DEPTH CONTROL ARMS for user confidence and protection of painted surfaces.



For **ANY CURVED GLASSES**, thin flexible blades follow the contour of the curved glass.



Small light-weight and versatile power tool is excellent for removing SMALL & DIFFICULT GLASSES.



CUT AGAINST PINCHWELD from inside vehicle and underneath the moulding to save and RE-USE EXPENSIVE ENCAPSULATED GLASSES.



Quick and easy ANTI-SCRATCH PINCHWELD SCRAPER blades leave a thin even layer of adhesive for re-bonding.



CUT UNDER EDGE OF EXPOSED GLASS OR ENCAPSULATION from outside using a standard blade to cut against either the glass or body panel.





# BTB SYSTEM APPLICATIONS

# **Body Shop Additional Removal Applications**

See the tool in action at btbtools.com/videos

Removal of a broken front windscreen is easy. The challenges to auto body repairers are removal and re-installation of unbroken, expensive or encapsulated front, side and rear glasses, panoramic glass roofs and bonded panels. The BTB tool specialises in all applications.

Gain control of workshop job-flow times by adopting IN-HOUSE GLASS REMOVAL.



Safely remove difficult and expensive quarter & hatch glasses and PANORAMIC GLASS ROOF & FRAME ASSEMBLIES for re-installation.



Powerful tool & strong blades cut tough adhesive to **REMOVE ADHESIVE BONDED PANELS** or panel sections.

Quickly and SAFELY REMOVE BODY MOULDS, bump strips, badges, nameplates, decals and emblems. The blade's smooth surface slides freely against a painted panel, resulting in no damage to paint or part.







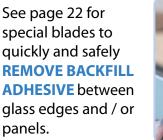
# Bus, Truck, Rail & Heavy Vehicle Applications

Glass, panel and bonded component removal in large vehicles is similar but involves harder and wider beads of adhesive. BTB's robust air tool is designed for heavy duty applications.

#### CUT FROM OUTSIDE

with PCK blades or combine inside and outside cuts for large and difficult glasses.







CUT FROM INSIDE with standard blades for WIDE, HARD, DOUBLE or HIDDEN ADHESIVE BEADS No need to remove interior trims with BTB's thin smooth blades which safely reciprocate between the trim seal and glass.

**REMOVE BONDED PANELS** or accident damaged panel sections for repair from buses, trains and similar vehicles.







# AUTO GLASS MOBILE E-TOOL KITS

# **E-TOOL** BTB's 12 Volt Battery Powered **Auto Glass Cut-Out Tool**

# Designed and Built by **BTB** Technicians specifically for Mobile Installations

See the tool in action at btbtools.com/videos

8

### **E-TOOL** Technician Kit

### ETK12TEC 11 Blade **E-Tool TECHNICIAN** Auto Glass Specialist Kit

This comprehensive kit, designed for the Mobile Auto Glass Professional, contains a wider range of mostly serrated blades which are preferred for their faster cutout times. Includes adjustable cutting depth control arms. Safely remove any bonded glass from any vehicle!

# E-TOOL Classic Kit

### ETK12CLS 7 Blade E-Tool CLASSIC Auto Glass Kit

This Mobile E-Tool kit contains an assortment of serrated & non-serrated blades to easily remove modern vehicle glasses, including laminated & encapsulated style glasses. Includes adjustable cutting depth control arms.



#### **KIT CONTENTS:**

**Power Tool:** E-Tool, 12V Battery in Carry Bag, Charger

**Blades:** WK1-S, WK2-S, WK4-S, WK4R-S, WK4Z-S, WK4ZVR-S, WK24Z, WK24-S, WK27M, WK28M, WK6-M

#### **Cutting Depth Control Arms:**

WK11AW, WK11BW5, WK11CW, WK11EW, WK11FW

#### Accessories:

WK7, WK7L, WK8DSM, WK9, WK9B, WK11VEL, WK20, WKGA

Also see Spade Blades on Page 18

Packaging: Sturdy Plastic Carry Box Training Package: Intro & Training DVD, User Manual

#### **KIT CONTENTS:**

**Power Tool:** E-Tool, 12V Battery in

Carry Bag, Charger **Blades:** 

WK2-S, WK3, WK24Z-S, WK24ZR-S, WK27M, WK28M, WK6-M

#### WK11CW, WK11FW Accessories: WK7, WK8DSM, WK9,

WK11AW, WK11BW5,

**Cutting Depth** 

**Control Arms:** 

WK9B, WK11VEL, WK20, WKGA

#### Also see Spade Blades on Page 18

Packaging: Sturdy Plastic Carry Box

**Training Package:** Intro & Training DVD, User Manual

BTB's Air Tool and **ETOOL** have the same blades, blade applications, cutting depth control arms and accessories. See page 15 on for details.



btbtools.com

# AUTO GLASS MOBILE E-TOOL KITS

### ETOOL Starter Kit

#### ETK12STR 4 Blade E-Tool STARTER Introduction Kit

This Mobile E-Tool kit is ideal kit for introducing mobile auto glass technicians to the BTB removal system. Contains a small selection of BTB's most used blades and adjustable cutting depth control arms for modern style vehicle glass removals.



#### **KIT CONTENTS:**

**Power Tool:** E-Tool, 12V Battery in Carry Bag, Charger

#### Cutting Depth Control Arms: WK11BW5, WK11FW

**Blades:** WK2-S, WK4Z-S, WK27M, WK28M

Accessories : WK7, WK8DSM, WK9, WK11VEL, WKGA

Also see Spade Blades on Page 18

**Packaging:** Sturdy Plastic Carry Box

Training Package: Intro & Training DVD, User Manual

### **ETOOL** Power Tool with Battery Pack & Charger

ETK1205 E-Tool with 12 Volt Battery in Carry Bag and 110/240V Smart Charger

Ideal for existing BTB system users who already have cutting blades or a tool kit but would like to use it for mobile / on-road work. Includes power tool, battery pack and charger. No blades included.



#### **KIT CONTENTS**

Power Tool:

E-Tool, 12V Battery in Carry Bag, Charger

**Accessories:** WKGA

**Training Package:** Intro & Training DVD, User Manual

### **ETOOL** Power Tool Only

#### ETS1200 E-Tool Plus WKGA Tool Accessory Kit

**NOTE:** #ETS1200 power tool is conveniently powered using the #ETS12B5 Battery Pack or **alternate 12 volt power sources (See Page 5)** 



Additional blades can be purchased separately and easily be added to any kit as required



Every E-Tool and E-Tool kit comes with a detailed 16 page User Manual which provides excellent and valuable guidelines, hints and tips for most cut-out and glass types.

E-Tool battery chargers are supplied with a region-specific AC power cord.





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# AUTO GLASS AIR TOOL KITS

# **BTB's Famous Air Powered Auto Glass Cut-Out Tool**

A small but superior powered Air Tool for every-day use and recommended for workshop or heavy duty use in bus and train glass removal.

### Powerful, Precise, Versatile and Reliable

See the tool in action at btbtools.com/videos

### AIR TOOL Technician Kit

WKTEC-BX 11 Blade **Air Tool TECHNICIAN** Auto Glass Specialist Kit

10

This comprehensive kit designed for the Auto Glass Professional contains a wider range of mostly serrated blades, preferred for their faster cut-out times. Includes adjustable cutting depth control arms. Safely remove any bonded glass from any vehicle!

### AIR TOOL Classic Kit

### WKCLS-BX 7 Blade Air Tool CLASSIC Auto Glass Kit

This tool kit contains an assortment of serrated & non-serrated blades to easily remove modern vehicle glasses, including laminated & encapsulated style glasses. Includes adjustable cutting depth control arms.



### **KIT CONTENTS:**

**Power Tool:** WK10HD Heavy Duty Air Tool **Blades:** 

WK1-S, WK2-S,

WK4Z-S,

WK4-S, WK4R-S,

WK4ZVR-S, WK24Z,

WK24-S, WK27M,

WK28M, WK6-M

#### **Cutting Depth Control Arms:** WK11AW, WK11BW5,

WK11CW, WK11EW, WK11FW

#### Accessories:

WK7, WK7L, WK8DSM, WK9, WK9B, WK11VEL, WK20, WKGA

#### Also see Spade Blades on Page 18

Packaging: Sturdy Plastic Carry Box Training Package: Intro & Training DVD, User Manual

#### **KIT CONTENTS:**

**Power Tool:** WK10HD Heavy Duty Air Tool

WK24ZR-S, WK27M,

WK28M, WK6-M

#### **Cutting Depth Control Arms:** WK11AW, WK11BW5,

WK11CW, WK11FW Accessories:

WK7, WK8DSM, WK9, WK9B, WK11VEL, WK20, WKGA

#### Also see Spade Blades on Page 18

Packaging: Sturdy Plastic Carry Box Training Package:

Intro & Training DVD, User Manual

### See Page 6 for **Auto Glass Removal Applications**



Reach below dashboards

Blades for all applications



Cutting depth control



Pinchweld trimming blades



### btbtools.com

**Blades:** WK2-S, WK3, WK24Z-S,

# AUTO GLASS AIR TOOL KITS

## Air Tool Starter Kit

#### WKSTR-BX 4 Blade Air Tool STARTER Kit

The ideal kit for introducing workshop based auto glass technicians to the BTB removal system. Contains a small selection of BTB's most used blades and adjustable cutting depth control arms for modern style vehicle glass removals.

TIP

If a mobile air supply is required for your BTB air power tool, simply use a small air compressor powered by a vehicle power inverter system OR for quiet and total portability, use a bottle of Carbon Dioxide (CO<sub>2</sub>) fitted with a pre-set pressure regulator.

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Every Air Tool kit comes with a detailed User Manual which provides excellent and valuable guidelines, hints and tips for most cut-out and glass types.

**KIT CONTENTS:** 

Power Tool:	Cutting Depth
WK10HD Heavy	Control Arms:
Duty Air Tool	WK11BW5,
Blades:	WK11FW
WK2-S, WK4Z-S,	Accessories:
WK27M, WK28M	WK7, WK8DSM,
	WK9, WK11VEL,
	WKGA

(8DSM. (11VEL,

Also see Spade Blades on Page 18

Packaging: Sturdy Plastic Carry Box Training Package: Intro & Training DVD, User Manual

> Additional blades can be purchased separately and easily be added to any kit as required

NOTE !

# WK6 Non-Scratch Pinchweld Trimming Kit

#### WK6-SET 4 Blade **Pinchweld Trimming Set**

Remove excess adhesive easily and safely with BTB's exclusive pinchweld trimming set.

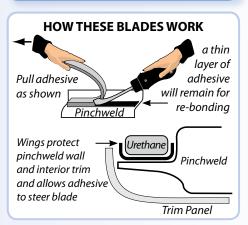


Intelligent design features of these blades include:

- A special wing on each side of the blade to eliminate scratching of paint including vertical pinchweld walls.
- A special grind which leaves a thin even layer of adhesive for re-bonding of replacement glass.
- TIP Auto Body repairers can use these for body deadener, hemlock and seam seals.



No more scratching or touching up paintwork!



#### **KIT CONTENTS:**

Blades: WK6-S, WK6-M, WK6-L, WK6-40 Accessories: WK7, WKKEY

WK6 blades are excellent for removing urethane embedded with shattered tempered glass.

NOTE!



BTB's WK6 blades can be used in the WK7 manual handles or power tools.



# BODY SHOP AIR TOOL KITS

# **BTB's Famous Air Powered**

# **Cut-Out Tool & Blade System** for all Auto Glass and:

- Precision removal of any difficult body shop glass for reinstallation.
- Bonded body panels & parts.

12

Mouldings, nameplates & badges.

The BTB system allows Auto Body repair shops to adopt IN-HOUSE GLASS REMOVALS and control workshop job flow times. Refer to glass, panel and moulding removal examples on pages 6 and 7.

### Powerful, Precise, Versatile and Reliable

See the tool in action at btbtools.com/videos

# NOTE !

Very Low vibration levels of BTB's Air Tool and E-Tool help avoid hand / arm vibration injuries.

# **Body Shop Tradesman Kit**

### WKTDM-BX 13 Blade Air Tool TRADESMAN **Body Shop Kit**

This professional Automotive body shop kit contains the most popular blades needed for the auto body repairer,

dealership workshop & auto dismantler/ recycler. Includes an assortment of nonserrated & serrated blades. Serrated blades are mostly used for glass and/or panel removal.

Non-serrated blades are for removing adhesive fitted side body mouldings, emblems and nameplates without damage to glass, moulding or painted panels.

If a mobile air supply is required for your BTB air power tool, simply use a small air compressor powered by a vehicle power inverter system **OR** for quiet and total portability, use a bottle of Carbon Dioxide (CO<sub>2</sub>) fitted with a pre-set pressure regulator.



Every Air Tool kit comes with a detailed User Manual which provides excellent and valuable guidelines, hints and tips for most cut-out and glass types.

### See Pages 6 & 7 for **Glass & Body Panel Removal Applications**



TIP



Curved and Hatch Glass

btbtools.com



Body moulds & badges



Precise depth control



Panoramic roof systems

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**KIT CONTENTS:** 

### **Power Tool:**

WK10HD Heavv

**Blades:** 

WK24-S, WK27S,

WK27M, WK28S,

WK28M, WK6-M

Duty Air Tool WK1-S, WK4, WK4R-S, WK4Z-S, WK4ZR-S, WK24Z, WK24ZVR-S,

**Cutting Depth Control Arms:** WK11AW,

WK11BW5, WK11CW, WK11EW, WK11FW

#### Accessories:

WK7, WK7L, WK8DSM, WK9, WK9B, WK11VEL, WK20, WKGA

Also see Spade Blades on Page 18

Packaging: Sturdy Plastic Carry Box Training Package:

Intro & Training DVD, User Manual

# BODY SHOP AIR TOOL KITS

# **Body Shop Craftsman Kit**

### WKCRA-BX 9 Blade Air Tool CRAFTSMAN Body Shop Kit

Contains a selection of blades needed for the auto body repairer, vehicle dealership workshop and automotive dismantler/recycler. Includes serrated, non-serrated and external cutting blades. Cutting depth control arms regulate cutting depth.

# Air Tool Starter Kit

#### WKSTR-BX 4 Blade Air Tool STARTER Kit

The ideal kit for introducing body repairers to the BTB removal system. Contains a small selection of BTB's most used blades and adjustable cutting depth control arms for modern style vehicle glass removals.



### WK10HD Air Tool with WKGA Tool Accessory Kit





#### **KIT CONTENTS:**

Power Tool:	Cutting Depth		
WK10HD Heavy	Control Arms:		
Duty Air Tool	WK11AW,		
Blades:	WK11BW5,		
2100000	WK11CW,		
WK1-S,	WK11EW		
WK4, WK4R-S, WK4Z-S, WK24Z,	Accessories:		
WK24ZR-S,	WK7, WK8DSM,		
WK27M,	WK9, WK9B,		
WK28M, WK6-M	WK11VEL, WK20,		
	WKGA		

#### Also see Spade Blades on Page 18

**Packaging:** Sturdy Plastic Carry Box **Training Package:** Intro & Training DVD, User Manual

#### **KIT CONTENTS:**

Power Tool: WK10HD Heavy Duty Air Tool Blades: WK2-S, WK4Z-S, WK27M, WK28M Cutting Depth Control Arms: WK11BW5, WK11FW

Accessories: WK7, WK8DSM, WK9, WK11VEL.

Also see Spade Blades on Page 18

WKGA

**Packaging:** Sturdy Plastic Carry Box **Training Package:** Intro & Training DVD, User Manual

### NOTE !

All BTB blades are designed for use in the BTB *E-TOOL* or Air Tool and Manual Handles.



Reach below dashboards



Blades for all applications



Access confined spaces



Pinchweld trimming blades

See Pages 6 & 7 for Glass & Body Panel Removal Applications



# BUS, TRUCK & RAIL TOOL KIT

# **BTB's Famous Air Powered** Glass & Panel Removal Tool

BTB's Air Tool is small but incredibly powerful and great for everyday jobs, or for prolonged heavy duty use in removal of glass and bonded panels from buses, trains and other similar vehicles.

See the tool in action at **btbtools.com/videos** 

### Bus, Truck and Rail Kit

WKBTR15-BX 15 Blade BUS TRUCK & RAIL Air Tool Kit

For the bus, truck, rail and commercial industries, this tool kit is suited to removal of adhesive bonded glass and bonded panels on today's transport fleets. The kit includes external and internal cutting blades, as well as blades to easily remove adhesive backfill from between glasses. Adjustable cutting depth control arms regulate cutting depth.

#### **KIT CONTENTS:**

**Power Tool:** WK10HD Heavy Duty Air Tool

#### Blades:

WK1-S, WK1X, WK2-S, WK4Z-S, WK4ZR-S, WK4-S, WK5-S, WK27S, WK27M, WK27L, WK28S, WK28M, WK28L, WK6-L, WK6-40

#### Cutting Depth Control Arms:

WK11BW5, WK11DW5, WK11EW

#### Accessories:

WK7, WK7L, WK8DSM, WK9, WK9B, WK11VEL, WK20, WKGA

#### Also see Spade Blades on Page 18

**Packaging:** Sturdy Plastic Carry Box **Training Package:** Intro & Training DVD, User Manual

Glass, panel and bonded component removal in large vehicles involves harder and wider beads of adhesive. BTB's robust air tool is designed for heavy duty applications.

#### **CUT FROM OUTSIDE**

with PCK blades or combine inside and outside cuts for large and difficult glasses.

**REMOVE BONDED PANELS** 

or accident damaged panel sections for repair from buses, trains and similar vehicles.





CUT FROM INSIDE with standard blades for WIDE, HARD, DOUBLE or HIDDEN ADHESIVE BEADS



No need to remove interior trims with BTB's thin smooth blades which safely reciprocate between the trim seal and glass.





e. sales@btbtools.com

14

# BLADE DESIGN

# **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,
- Standard Blades
- Pinchweld Trimming Blades.

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

**NOTE:** See colour coding below

non-serrated

serrated

# Non-Serrated vs Serrated Tips

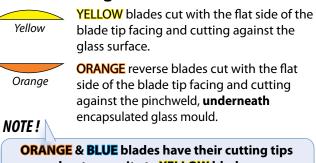
Non-Serrated blades can be used in all removal applications.

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



bent opposite to YELLOW blades.

**GREEN** and **BLUE** blades are a double Green bevelled safety-edge version of YELLOW and **ORANGE** blades respectively. See the V Blue 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**

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.



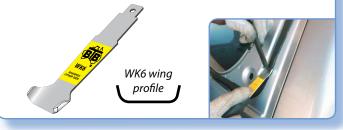
# Powered Cold Knife Blades

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.



# **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.



15

URETHANE

### **Standard Straight Blades**

#### Applications

16

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.



GLASS

YELLOW BLAD

PINCHWELD

Part /	ible	m				
Length	Flexible	C/Arm	Blade Image		Specific Appli	ications
<b>WK1</b> 300 mm		(11EW			0	Non-serrated for cutting below deep dashboards & long reach applications.
<b>WK1-S</b> 300 mm		WK1	Serrated		0	Cutting below deep dashboards & long reach applications.
<b>WK2</b> 240 mm		1FW		0	Non-serrated reach cutting.	for general medium
<b>WK2-S</b> 240 mm		WK1.	Serrated	0	Medium reach below dashbo	n blade and for cutting pards.
<b>WK5</b> 130 mm		1DW5		Rigid and non-se	errated short ge	eneral trimming blade.
<b>WK5-S</b> 130 mm		WK11	Serrated			lly suited for backfill 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.

Do not use long blades when a short NOTE! 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.



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







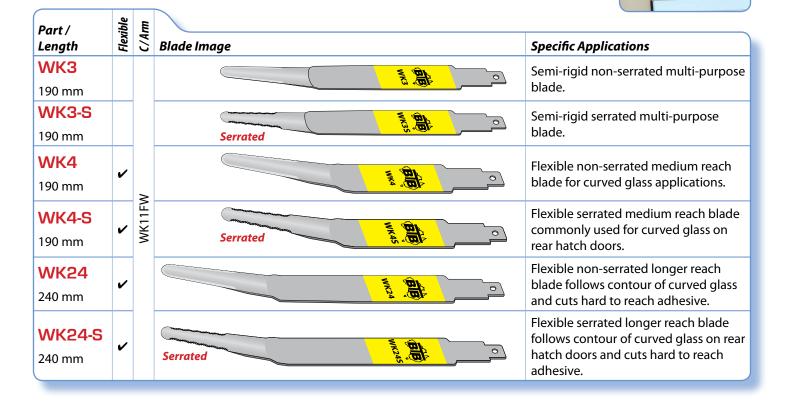
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# BLADES - STANDARD



#### 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.



# Standard 'Z' Blades

areas. Interior trims often do not need to be removed.

Mostly used for cutting from inside vehicle using cutting depth control arms to protect painted surfaces. Common applications are top and sides of windscreens and other interior cutting where working close to cutting area is possible and in confined work

Applications

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

	ible	m		
Part / Length	Flexible	C/Arm	Blade Image	Specific Applications
<b>WK4Z</b> 140 mm		5		Rigid non-serrated short blade for precise control. Can also be used to remove body moulds, badges, emblems and decals.
<b>WK4Z-S</b> 140 mm		WK11BW5	Serrated O	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	v	WK11AW //		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	~	3	Serrated O	Short blade with longer flexible serrated tip for curved glass removals.





GLASS

YELLOW BLAD

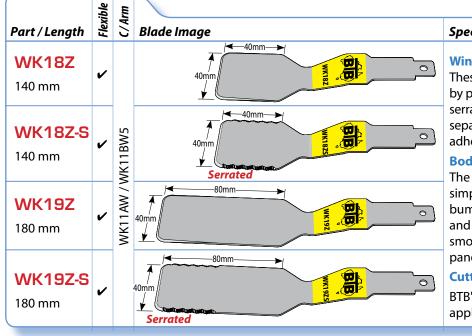
PINCHWELD

# Spade 'Z' Blades 🛛 🛞 🕅 🖅 😒

#### 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.





## Specific Applications

TIP Great for cutting/separating

hidden glass locator pins.

#### 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.

#### **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.

#### **Cutting Depth Control**

BTB's exclusive cutting depth control arms also apply to 'Z' Spade Blades.

# Reverse 'R' Blades For Encapsulated or Exposed Edge Glass

Applications ORANGE blades at removal of undar encapsulated glas adhesive against t panel surface from Also great to use f vehicle with flat si against exposed e	nage ses he p n ins rom de c edge	ed by c binc side of bl gla	oranoce BLADE WITH FLAT SIDE AGAINST hweld or vehicle. tside ade GLASS GLASS	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
<b>WK4ZR-S</b> 140 mm			Serrated	Rigid short reverse blade for precise control cutting of easy-to-reach adhesive.
WK24ZR-S 150 mm	~	der blade	Serrated	Flexible short reverse blade for precise cutting and is designed to follow contour of curved encapsulated glass.
<b>WK4R-S</b> 190 mm	v	WK11CW under	Serrated	Flexible medium reach reverse blade for accessing hidden adhesive and will follow contour of curved encapsulated glass.
WK24R-S 240 mm	~	Ŵ	Serrated	Flexible serrated longer reverse blade providing extra reach for hidden adhesives on curved encapsulated glasses.



# BLADES - SAFETY V EDGE

# '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.



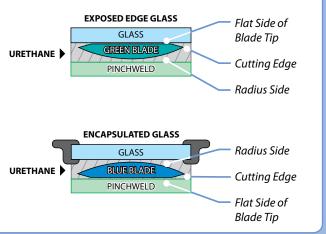
#### Applications

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.

	ble	m		
Part / Length	Flexible	C/Arm	Blade Image	Specific Applications
<b>WK4ZVR-S</b> 140 mm		1CW	Serrated	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	•	WK1	Serrated	Flexible serrated short blade used for cutting against pinchweld from inside vehicle in curved encapsulated glass removal applications.
<b>WK4ZV-S</b> 140 mm		1BW5	Serrated	Rigid serrated short blade most commonly used for cutting from inside vehicle along surfaces made of softer materials.
WK24ZV-S 150 mm	~	AW / WK1	Serrated O	Flexible serrated tip for removal of curved glasses and for cutting against softer materials.
WK24ZV 150 mm	~	WK114	MINOA ZU O	Flexible non-serrated short blade for removal of body moulds and emblems from concave panel surfaces.
<b>WK2V-S</b> 240 mm		WK11FW	Serrated	This straight blade can be used with its flat side facing either surface you want to cut against.



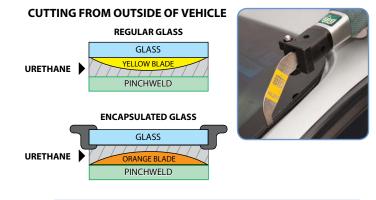


### Powered Cold Knife Blades

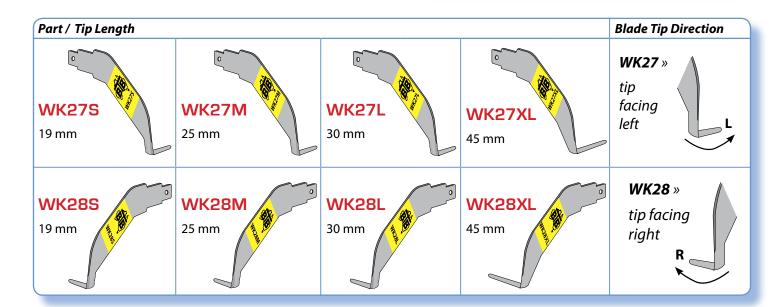
#### Applications

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.



- **TIP** 1. Always start using the shortest blade tip available, then progress to longer blade tip if required.
  - 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	Application	P	art / Tip Length		Application
WK27RM 25 mm	Reverse 'R' <b>ORANGE</b> blades have the flat side of cutting tip down and <b>cut underneath</b> <b>the encapsulation</b> from outside the		<b>NK29L</b> 0 mm	120° 30 mm	Wide angle allows blade to cut underneath panoramic roof frame. BLADE PANORAMIC SUNROOF FRAME FRAME BONDED TO VEHICLE BODY
VK28RM 25 mm	vehicle.		WK29AL 0 mm	50° WK3OAL 30 mm	Narrow angle allows too to operate where vehicl body restricts access. SUN VISOR BLADE POWER TOOL



#### btbtools.com

# BLADES - PINCHWELD TRIMMING

# Winged Non-Scratch Pinchweld Trimming Blades

#### **Applications**

No more

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

Part / Width	Blade Image	Specific Applications
WK6-S ← 20mm → I	Contraction of the second seco	This blade is best suited for trimming narrow beads of bonding adhesive.
WK6-M		This blade covers most pinchweld trimming applications.
WK6-L	Contraction of the second seco	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		This pinchweld trimming set will cater for ALL of your adhesive trimming
<b>Accessories:</b> WK7, WKKEY	]]]]]]]	requirements.

### **Radius Grind** underneath blade extends up the vertical wings to avoid scratching paintwork **HOW THESE BLADES WORK** a thin Pull adhesive ven layer as shown of adhesive remains for Pinchweld re-bonding Wings protect Urethane pinchweld wall and interior Pinchweld trim and allows adhesive to Trim Panel steer blade



Part / Width	Blade Image	Application
WK6-15		Like the winged blades,
15 mm		flat WK6 blades include
WK6-25	K A A A A A A A A A A A A A A A A A A A	an underside radius grind. They are good for general
25 mm		trimming applications.
WK6-40		The <b>WK6-40</b> blade is great for trimming wide adhesive
40 mm		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

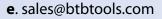
WK17 Blade

Part / **Cutting Technique** Result Blade Image Length **WK5-S** WK11DW5 ARM CONTROLS ADHESIVE CUTTING DEPTH 130 mm FLAT SIDE OF "V" CUT GLASS WK5-S BLADE MUST FACE GLASS EXPOSES **OPERATE AT 45° TO** GLASS FOR 1st CUT GLASS EDGE GLASS FOR BOTH 1st AND 2nd CUT റ Ø) 1st cut GLASS EDG **BUS OR** Ó **BUS OR** TRAIN TRAIN PANEL PANEL RADIUS SIDE OF WK5-S 2nd cut Serrated **BLADE MUST FACE** GLASS FOR 2nd CUT

Part /		
Channel	Blade Image	Cutting Technique
WK17-6 6 mm WK17-4 4 mm	MILL O	Use a rat tail (round) file to sharpen radiused side Adhesive Glass Adhesive in divisional joint











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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.

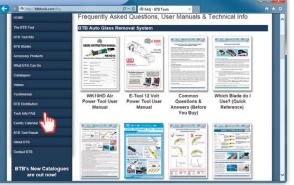
> See the tool in action at btbtools.com/videos



# **Technical Information Online**

The BTB Air Power Tool and 12 Volt Battery Powered **ETOOL** 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.

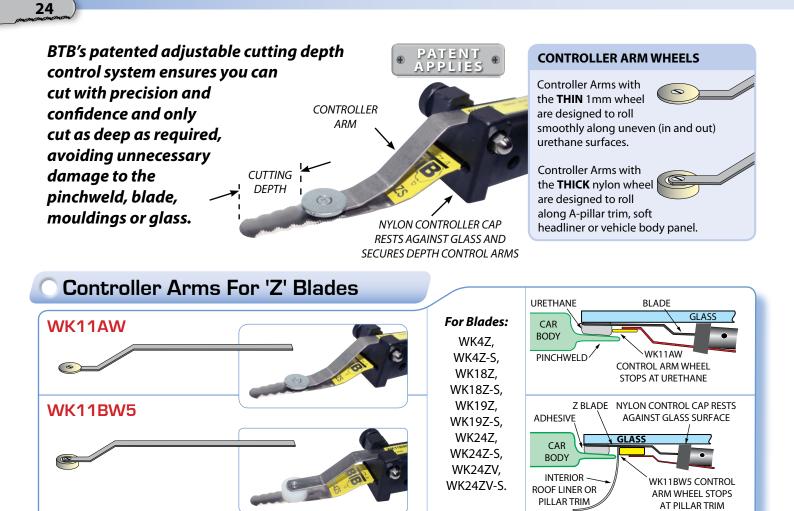




23



# BLADE GUTTING DEPTH GONTROL









# BLADE GUTTING DEPTH GONTROL





# 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.	<b>For Blades:</b> WK27 range, WK28 range, WK29 range, WK30 range.	

# Controller Arm For Backfill Removal Blades



btbtools.com

# RESUPPLY ITEMS



#### 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** 

Hacksaw Blade



24 Teeth/Inch







#### **KIT COMPONENTS**

**WK50** 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

BBAYTOBLE

#### **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

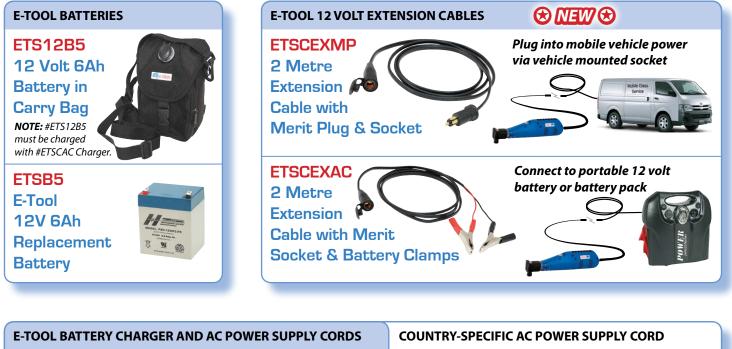


#### **CAT-UMA BTB Air Tool User Manual**

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USER	S INSTRUCTIO	Ν ΜΔΝΙΙΔΙ
	200	-
-		WILL A ALLE
-	ive Glass, Moulding & Pa	WK10HD
Automot	ive Glass, moulding & Pa	nel Kemoval 100
ENGLEM	MERSINGTRUCTION WARKING	
MANCAS	NHILEL STRETRUCTORS	1:
EBAÃO.	NINGAL BESLEVAS	
GERMAN DELITION	BOUTTERAINE SUNSEN	
нокторойя	NUMERAL DE RETRUCÕES DO UTILIDA INFORMAÇÕES SOBRE LEDIDAS DE S	
NECEPLANCS	GERRURZINS-WWOLEDING	w -
ITALIAND	NUMERALE DISTRUZIONE PER L'UTENTE DATI GUIDA DI SICUREZZA	·
EXPLORED PA	ATTE DRAMING	
	TENANCE & CAUNS PROCEDURE	

# RESUPPLY ITEMS

# **E-TOOL** Accessories



#### **ETSCAC** Battery Smart Charger

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

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



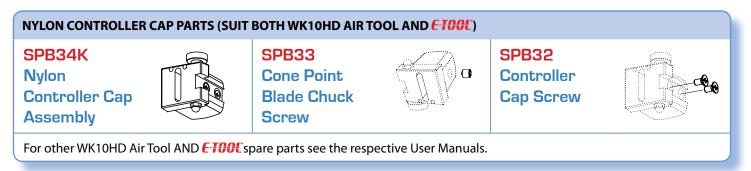
pure sine wave

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# **ETOOL** & AIR TOOL Spare Parts, Servicing & Repairs

For **ETOOL** and WK10HD servicing and repairs please contact your BTB supplier.



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