

Installation Tools

TBM4BB Crimp Tool

- Installs lugs and splices over a wire range of #8 to #2 copper and #10 to #6 aluminum
- Also installs up to the green colour coded C-Taps and MD2 Series motor disconnect
- A colour coded die wheel is rotated into position and each die has die code embossing
- Shure Stake® tool



Gauging Procedure

1. Rotate wheel to the desired nest.
2. Squeeze handles with 5 to 15 lb. force.
3. Holding handles tightly closed, insert GO, NO-GO gauge into nest. GO gauge should enter freely. NO-GO gauge may enter partially, but not pass completely through the length of the nest area.
4. Equivalent to TBM25S.

	Conductor Size					
	#10	#8	#6	#4	#2	#1
Copper						
One hole, short		CTL8-10 CTL8-14 CTL8-516 54132	CTL6-10 CTL6-14 CTL6-516 CTL6-38	CTL4-10 CTL4-14 CTL4-516 CTL4-38	CTL2-14 CTL2-516 CTL2-38 CTL2-12	
Two hole, short		54204	CTL6-214	CTL4-214	54207	
Splice, short		CSP8	CSP6	CSP4	CSP2	
One hole, long		CTL8L-14	CTL6L-14	CTL4L-14	54942BE	
Two hole, short		LCN8-14	LCN6-14	LCN4-14	LCN2-516	
Splice, long		CU8	CU6	CU4	CU2	
Cable Joints			54610	54615	54620	
Narrow Tongue				55112	55116	
C-Taps		54705	54710	54715	54720	54725
Motor Disconnects		MD8 Series	MD6 Series	MD4 Series	MD2 Series	
Aluminum						
One hole	60096 60099	ATL8-10 ATL8-14 60103 60104	ATL6-10 ATL6-14 60108 60109			
Splices	60500	ASP8	ASP6			
Bi-Pins		61905A	61910A			
Equipment Lugs		61102	61107			

Cat. No.	Colour Code	Gauging Nom. – Tol.
TBM4BB	Red	0.183 ± 0.006
	Blue	0.220 ± 0.008
	Grey	0.273 ± 0.008
	Brown	0.332 ± 0.008
	Green	0.414 ± 0.008

TBM4S Dieless Crimp Tool

- Wide range of #8 to 250 kcmil for copper lugs and #8 to 4/0 for aluminum lugs
- Adjustable indenter eliminates the need to buy and maintain numerous individual dies
- Shure-Stake® mechanism ensures a properly completed crimp each time
- Easily adjusted by turning knurled adjusting wheel and aligning pointer with proper terminal size
- Dieless adjustable crimper for Color-Keyed® compression connectors



Creates Indent-style crimp



Cat. No.	Description	Pkg. Qty
TBM4S	Dieless crimp tool with Shure-Stake® mechanism for #8–250 kcmil copper and #8–4/0 aluminum lugs	1

JB12B — 12-Ton Manual Hydraulic Crimp Tool

- Self-contained hydraulic crimping tool for copper, aluminum and ACSR connectors
- Two-stage, rapid-ram advance mechanism for fast installation
- 180° head rotation
- Accepts all U-type dies used for Alcoa, Burndy, Thomas & Betts and Blackburn tools of equivalent tonnage
- Use standard T&B Color-Keyed® 15500 dies Series (refer to pages 111–117)

Specifications

- Installing Range:
 - Up to 750 kcmil copper lugs & splices
 - Up to 650 kcmil aluminum lugs & splices
 - CHT814-10 to CHT2502-6 copper H-taps
 - 63105 to 63148 aluminum H-taps
 - 54755 to 54770 C-taps
- Output Force: 12 tons
- Dimensions (L x W x H): 22-3/4" x 2-1/2" x 4-7/8"
- Weight without Dies: 13 lb.



Creates Hex-style crimp

Cat. No.	Description	Pkg. Qty
JB12B	12-Ton Compression Tool	1

TBM14M C 14-Ton Compact Manual Hydraulic Crimp Tool

- Improved ergonomic design requires less force
- 180° rotating head for use in tight spaces
- 1.65" jaw opening accommodates large compression terminals and joints
- Dual-speed action pump offers fast advancing speed for approach of die to connector and slower, more powerful speed for crimping
- Built-in safety valve bypasses oil supply at maximum pressure
- Pressure-release system can be activated at any stage of compression
- Uses standard T&B Blackburn® and Color-Keyed® 15500 dies series (refer to pages 112–117)



Creates Hex-style crimp



Specifications

- Installing Range:
 - Up to 900 kcmil copper lugs & splices
 - Up to 750 kcmil aluminum lugs & splices
- Output Force: 14 tons
- Length: 20-1/2"
- Weight without Dies: 14 lb.
- TBM14MG—Gauge and testing dies in carrying case

Cat. No.	Description	Pkg. Qty
TBM14MC	14-Ton Compact Hydraulic Crimp Tool	1

TBM840 Crimp Tool

- Wide range of #8 to 4/0 for copper connectors and splices
- Installs Blackburn® and Thomas & Betts lugs and splices
- 8-position colour coded rotatable die
- Comfort hand grip
- Die index embossed for permanent inspectability



Specifications

- Overall length: 23-3/4"
- Handle length: 16-1/2"
- Weight: 8.8 lb.

Cat. No.	Description	Pkg. Qty
TBM840	Crimp Tool for #8 to 4/0 Copper Lugs c/w Rotating Colour Coded Die Wheel	1

Installation Tools

OD581 Manual Compression Tool

- Patented, integral self-gaging system in tool head assures proper adjustment before each crimp
- Improved design reduces force to crimp by as much as 20%
- Teflon over bronze bearings greatly reduce wear at linkage and pins; far superior to steel bearing surfaces
- All standard insert dies available for OD58 tool: "O" and "D", 840, etc., 5/8" fixed die in nose
- ODF tool has fixed "O" and "D" dies
- ODB tool has fixed "O" and "D" dies; accepts standard insert dies designed for MD6 tool
- Distribution of weight over tool length gives better balance, results in easier handling and positioning
- Optional fiberglass handles for greater strength, lighter weight, better insulating properties and lower moisture absorption rate
- ODF and ODB tools with insulated heads available as an option
- Lever action tool with hot stick handles of Glastrux Fiberglass, rated and tested for 100Kv/ft/5 minutes
- Lever action results in minimum applied force to crimp



Cat. No.	Description	Handle Length (in.)	Weight (lb.)
OD58	Manual Tool with 5/8" Nose Die and Insert Die Cavity Straight Wooden handles	–	6.5
OD581	Manual Tool with 5/8" Nose Die and Insert Die Cavity Straight Fiberglass handles	–	6.0
OD583	Manual Tool with 5/8" Nose Die and Insert Die Cavity Curved Wooden handles	–	6.5
ODF1	Manual Tool with fixed O & D dies Fiberglass handles	–	6.0
ODB	Manual Tool with fixed O & D dies "D" die cavity accepts MD6 tool insert dies Straight Wooden handles	–	–
ODB1	Manual Tool with fixed O & D dies "D" die cavity accepts MD6 tool insert dies Fiberglass handles	–	6.0
ODB3	Manual Tool with fixed O & D dies "D" die cavity accepts MD6 tool insert dies Curved Wooden handles	–	6.5
OD58L72	Manual Tool with 5/8" Nose Die and Insert Die Cavity Hot Stick Handles – 1.5" x 72"	72	10.5
ODBL72	Manual Tool with 5/8" Nose Die and Insert Die Cavity Accepts MD6 tool insert dies Hot Stick Handles – 1.5" x 72"	–	–
BG1-BB	Canvas bag for OD58	–	1.00
ODH1	Insulating head cover	–	0.40

For Hand Tool with insulated head, add suffix 5 to catalogue number.

TBM6H — 6-Ton Hydraulic Crimping Head

- Lightweight design – weighs less than 7 lb., including dies
- Embosses die code on connection for easy inspection
- Uses 6-TON Series and Blackburn “O” & “D” dies Series and colour coded insert dies for easy matching with Blackburn® and Color-Keyed® connectors (refer to page 118)



Creates Hex-style crimp



Specifications

- Installing Range:
 - Up to 600 kcmil copper lugs & splices
 - Up to 400 kcmil aluminum lugs & splices
 - CHT814-10 to CHT214-9 copper H-taps
 - 63105 to 63148 aluminum H-taps
 - 54705 to 54750 C-taps
- Output Force: 6 tons
- Dimensions (L x W x H): 12" x 2-1/4" x 3-9/16"
- Battery: Ni-MH 14.4V 3.0Ah
- Weight: 6.5 lb.

Cat. No.	Description	Pkg. Qty
TBM6H	6-Ton Hydraulic Head with Steel Case	1
TBM6HD-1	Die Set for #8 thru 500 kcmil (6-TON21 thru 6-TON87)	

TBM6H — Application Information Connector Dies

Connector Size		TBM6H Hydraulic Head		BKB Die No.	Colour Code
Copper	Aluminum	Color-Keyed Die Cat. No.	Die Cat. No.		
8 AWG	10 AWG	6TON21	21	BY15C	Red
6 AWG	8 AWG	6TON24	24	BY17C	Blue
4 AWG	6 AWG	6TON29	29	BY19C	Grey
2 AWG		6TON33	33	BY21C	Brown
1 AWG	4 AWG	6TON37	37		Green
1/0 AWG	2 AWG	6TON42	42H	BY23C	Pink
2/0 AWG	1 AWG	6TON45	45	BY24C	Black/Gold
3/0 AWG	1/0 AWG	6TON50	50	BY25C	Orange/Tan
4/0 AWG	2/0 AWG	6TON54	54H	BY31C	Purple/Olive
	3/0 AWG	6TON60	60	BY32C	Ruby
250 kcmil		6TON62	62	BY27C	Yellow
300 kcmil	4/0 AWG	6TON66	66	BY35C	White
350 kcmil	250 kcmil	6TON71	71H	BY37C	Red
400 kcmil	300 kcmil	6TON76	76		Blue
925/24		6TON80	80	BY28C	Black
500 kcmil	350 kcmil	6TON87	87H		Brown

Consult Connector Stuffer Sheets for series 61900, 61100 & 61300.
Consult Connector Stuffer Sheet for Wire Ranges.

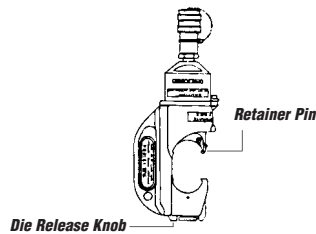
Installation Tools

13100A — 14-Ton Hydraulic Crimping Head

- Rugged design, made to last in field or on bench
- C-yoke provides maximum flexibility for crimping
- Uses standard T&B Color-Keyed® 15500 dies Series (refer to pages 111–112)
- Operates on 10,000 psi hydraulic pumps

Specifications

- Installing Range:
 - Up to 900 kcmil copper lugs & splices
 - Up to 750 kcmil aluminum lugs & splices
 - CHT814-10 to CHT2502-6 copper H-taps
 - 63105 to 63148 aluminum H-taps
 - 54755 to 54775 C-taps
- Output Force: 14 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H): 11-1/2" x 2-1/2" x 4-1/4"
- Weight: 10 lb.



Cat. No.	Description	Pkg. Qty
13100A	14-Ton Hydraulic Head with Steel Case	1

Installation Range for Connectors

	Lugs	Splices
Copper	No. 8 AWG to 900 kcmil	No. 8 AWG to 900 kcmil
Aluminum	No. 10 AWG to 750 kcmil	No. 10 AWG to 750 kcmil

Installation Tools

Smart® Tools From T&B to Crimp 17 Blackburn® Connector Sizes with No Die Changes



TBM8-750M-1



TBM8-750



Wire Barrel Before Compression



After Compression —the connector and conductor are formed into a solid mass.

Rugged Hydraulic Tool Gives You Uniform Dependable Connections — Lower Installed Costs

The new Smart® Tools are designed to give you uniform, high quality compression connections over a wide connector range. It easily installs copper and aluminum lugs and two-way connectors from #8 AWG through 750 kcmil—without changing dies. For the specified wire range, all you need is one hydraulic tool and one set of dies. You always have the right die size selection; mistakes are virtually eliminated. Productivity will be greatly improved especially when installing a variety of connector sizes or types. Initial investment is low and requires only a minimum tool/die inventory. These benefits add up to lower installed cost.

How It Works

The tool, which operates from a 9,800 psi hydraulic pump, has an engineered, built-in “intelligence*”. The tool will sense the connector barrel diameter and apply just the right amount of compression force. This eliminates virtually all air spaces and forms the connector and conductor strands into a solid mass resulting in a high quality, low resistance connection. In addition, the tool clearly embosses “T&B” with each compression for positive verification that the correct tool was used.

* System Novopress

“C”-Type Yoke Offers Installation Convenience

The “C”-type yoke configuration and the large die spacing allows the tool to slip directly over the connector. This means added speed and convenience when installing 2-way connectors, especially in confined spaces.

Rugged Construction

These ruggedly built tools are made from forged steel, and are well suited for both field and bench work. Their C-shaped heads, light weight, and compact size make it easy to use just about anywhere.

Specifications

TBM8-750

Remote Head tool

Weight: 9 lb. (approx.)
 Height: 14-1/2 in.
 Width: 4-7/32 in.
 Depth: 2-9/16 in.
 Wire Range: #8 AWG through 750 kcmil
 copper and aluminum
 Operating Pressure: 9,800 psi
 Output Pressure: 12 tons
 Coupler: Pioneer, female

TBM8-750M-1

Self-Contained Tool

Weight: 13 lb. (approx.)
 Height: 21-1/2 in.
 Width: 4-7/32 in.
 Wire Range: #8 AWG through 750 kcmil
 copper and aluminum
 Operating Pressure: 9,800 psi
 Output Pressure: 12 tons

Smart® Tool Range Taking Features

The following size copper Blackburn® lugs and 2-way connectors, when crimped with the Smart® Tools, Cat. Nos. TBM8-750 and TBM8-750-M1, produce these range taking capabilities:

Copper		Aluminum	
Standard Wire Size	Range Taking	Standard Wire Size	Range Taking
1/0-AWG	#6-1/0 AWG	1/0-AWG	#6-1/0 AWG
2/0-AWG	#1-2/0 AWG	2/0-AWG	#1-2/0 AWG
4/0-AWG	#2-4/0 AWG	4/0-AWG	#2-4/0 AWG
300 kcmil	#2/0-300 kcmil	300 kcmil	#2/0-300 kcmil
350 kcmil	250-350 kcmil	350 kcmil	250-350 kcmil
500 kcmil	250-500 kcmil	500 kcmil	4/0-500 kcmil
750 kcmil	500-750 kcmil	750 kcmil	500-750 kcmil

Installation Tools

TBM8-750M-1 — 12-Ton Dieless Manual Hydraulic SMART® Tool

 Creates Indent-style crimp



TBM8-750M-1

Specifications

- Installing Range:
Up to 900 kcmil copper lugs & splices
Up to 750 kcmil aluminum lugs & splices
- Output Force: 12 tons
- Dimensions (L x W): 21-1/2" x 4-7/32"

Hydraulic Smart® Tool

Cat. No.	Description
TBM8-750	Remote Head installs Blackburn® #8 AWG through 750 kcmil aluminum and copper lugs, 2 way connectors, and "D" through "M" bare Sta-Kon® terminals with no die change; the only additional die sets required are for "H" and "C" type compression taps; the tool weighs only 9 lb. and is 13 in. long; operates on standard 10,000 psi electric and manual pumps. UL and CSA Listed for T&B connectors and uninsulated terminals.
TBM8-750M-1	Self-contained head installs same connectors as above tool; "C" Head swivels 90° for easy crimp positioning in confined spaces
TBM8-750G	Field compression gauging kit for both above tools
TBM8-750C20	Die set installs Cat. No. 54720 copper "C" taps
TBM8-750C2530	Die set installs Cat. Nos. 54735, 54730 copper "C" taps
TBM8-750C3540	Die set installs Cat. Nos. 54735, 54740 copper "C" taps
TBM8-750C4550	Die set installs Cat. Nos. 54745, 54750 copper "C" taps
TBM8-750CL	Die set installs Cat. No. 54755 through 54775 copper "C" taps
TBM8-750HG	Die set installs Cat. No. 63110 through 63118 and 63125 "H" taps
TBM8-750HB	Die set installs Cat. No. 63140 through 63148 "H" taps
297-31804-6	TBM8-750 with insulated head
297-31804-4	TBM8-750M-1 with insulated head

TBM8-750 — 12-Ton Dieless SMART® Hydraulic Head Gauging Procedure

 Creates Indent-style crimp

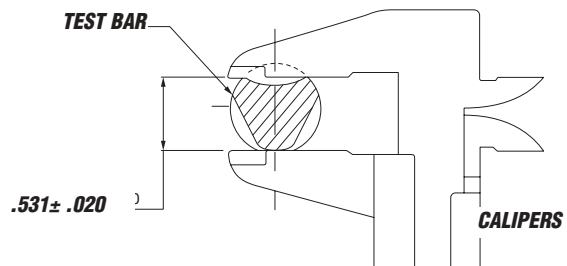


TBM8-750

Specifications

- Installing Range:
Up to 900 kcmil copper lugs & splices
Up to 750 kcmil aluminum lugs & splices
- Output Force: 12 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H):
14-1/2" x 4-7/32" x 2-9/16"
- Weight: 9 lb

1. Insert the test bar in the die opening; allow 3/4" from the end of the bar or the last crimp to prevent poor crimping.
2. Start the pump, holding pressure on the tool until full pressure is shown on the gauge.
3. Release the pressure.
4. Measure the crimped area of the test bar with a Vernier Caliper as shown in the sketch.
5. Accept the tool if the crimped bar is within the listed dimension and no leaks or functional problems are observed.
6. Tools not crimping the test bar to specification, that leak or have a functional problem should be returned to T&B Tool Service.



CSR750 Cable Cutter

- Special advance stroke mechanism requires less handle force
- Cuts copper or aluminum cables up to 750 kcmil
- Short handles (only 10" long) enable use in tight spaces



Contact Tool Service for replacement blades.

Cat. No.	Description	Pkg. Qty
CSR750	Cutter for up to 750 kcmil copper or aluminum	1

368-CK Cable Stripper



Cat. No.	Description	Pkg. Qty
368-CK	Cable stripper for #1 to 1,000 kcmil	1

U.S. Pat. Nos. 3,840,987, 3,919,877

CTR-1 — C-Tap Removal Tool



Cat. No.	Description	Pkg. Qty
CTR-1	C-Tap Removal Tool	1

Installation Tools

HM-250 TOOL — Mechanical Single Indent Dieless Crimper

- Manually operated single-indent compression tool
- For copper wire #8 to 250 kcmil
- For aluminum wire #8 to 4/0



Installation Dies
and Tools

Cat. No.	Description	Pkg. Qty
HM-250 TOOL	Mechanical Single Indent Dieless Crimper	1

Blackburn® Allen Wrench

Cat. No.	Description	Pkg. Qty
WA 516	PVC dipped handle – Hex size 5/16	1
WA 38	PVC dipped handle – Hex size 3/8	



PVC dipped handle