

BPLT62BSCR and BPLT62500BSCR
Battery Operated Hydraulic Crimping Tool
Operating Instruction Manual



IMPORTANT: Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

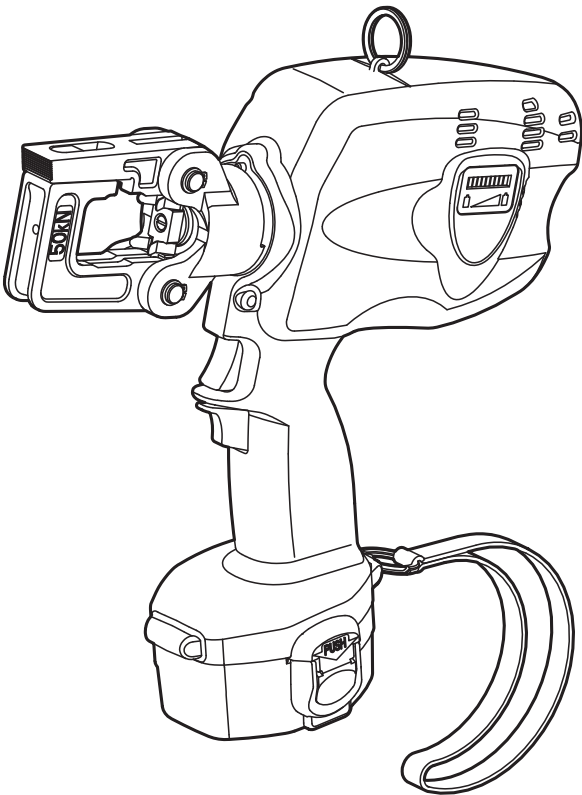


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WARNING

1. BEFORE USING THE TOOL, CAREFULLY READ INSTRUCTIONS IN THIS MANUAL.
2. WHEN OPERATING THE TOOL, KEEP HANDS AND OTHER BODY PARTS AWAY FROM THE DANGER ZONE.
3. DO NOT USE IN WATER OR IN THE RAIN.
4. ALWAYS ENSURE CORRECT LATCHING AND SECURENESS OF THE TOOL HEAD.
5. DO NOT SHORT THE BATTERIES.
6. ALWAYS RECYCLE THE BATTERIES.
7. DO NOT DISCARD BATTERIES INTO DOMESTIC REFUSE OR WASTE DISPOSAL.



1.1 BATTERY OPERATED HYDRAULIC CRIMPING TOOL

This "BPLT62BSCR" hydraulic tool is powered by 14.4 V DC Ni-MH battery. The tool is well balanced for optimum control, quiet operation, very little vibration and lightweight construction enabling the operator to hold the tool in one hand while positioning the connector with the other hand. The tool has a two speed operation which provides automatic shifting from a rapid ram advance mode to a slow powerful crimping mode. The residual battery capacity level is automatically displayed after every cycle.

BPLT62BSCR Includes the following:

- Battery
- Wrist Strap
- Tool Strap
- Spare Battery
- Battery Charger
- Carrying Case

BPLT62500BSCR Includes the following:

- Battery
- Wrist Strap
- Tool Strap
- Spare Battery
- Battery Charger
- Die Set
- Carrying Case

1.2 APPLICATION RANGE

Suitable for installing electric compression connectors for conductors from 8 AWG up to 500 MCM CU, 350 MCM AL.

Crimping Force Nominal.....6 Tons

Rated Operating Pressure.....8600 psi

Dimensions:

Length.....11.7"

Width.....3.7"

Height.....11.9"

Weight (with battery).....8.8 lbs

Motor.....14.4V DC

Battery - direct current.....14.4 V - 3.0 Ah Ni-MH

Oil Recommended.....AGIP ARNICA 32 or SHELL TELLUS TX32 or equivalent

Safety.....the tool is provided with a maximum pressure relief safety valve.

1.3 ACOUSTIC NOISE

(Directive 2006/42/EC, annexe 1, point 1.7.4.2 letter u)

The weighted continuous acoustic pressure level equivalent

A at the work place L_{PA} is equal to.....75 dB (A)

The maximum value of the weighted acoustic displacement pressure

C at the work place L_{pCPeak} is.....<130 dB (C)

The acoustic power level emitted by the machine

L_{WA} is equal to.....85,3 dB (A)

1.4 RISK DUE TO VIBRATION

(Directive 2006/42/EC, annexe 1, point 2.2.1.1)

Test carried out in compliance with the indications contained in UNI ENV 25349 and UNI EN 28662 part 1st Standards, and under operating conditions much more severe than those normally found, certify that the **weighted root mean square in frequency of the acceleration the upper limbs are exposed to for each biodynamic reference axis does not exceed 2.5 m/sec².**

1.5 OVERALL VIEW

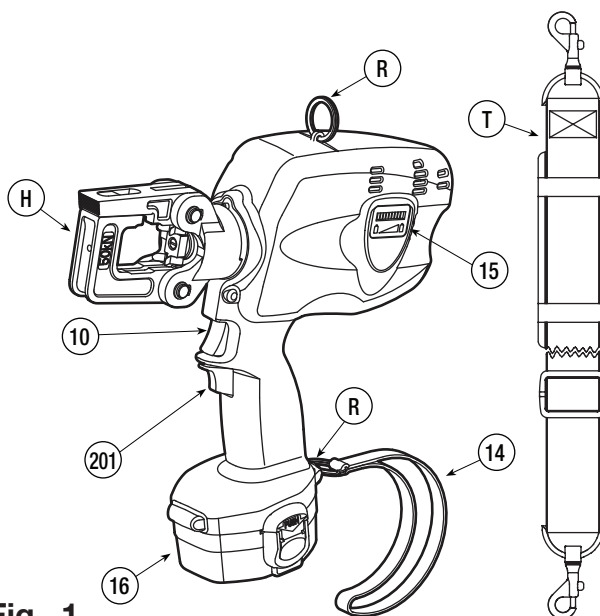


Fig. 1

10	Operating Button	201	Pressure Release Lever
14	Wrist Strap	H	Head
15	Battery Capacity Indicator	R	Ring for Shoulder Strap
16	Battery	T	Shoulder Strap

2.1

PREPARATION (Refer to Figs. 1, 2 & 3)

The tool can be easily carried using either the handle or shoulder strap (T) attached to the rings (R), see Fig. 1 on page 2.

With the tool at rest, proceed as follows:

- Select the appropriate die set for the connector.
(Ref: Check Thomas & Betts instruction sheet for the connector and make sure color code of die matches color code of connector.)
- Open the latch (41) and release the upper die holder (42).
- Insert one die into the upper die holder (42) and one die into the lower die support (49).
- Close the latch (41).
- Insert the conductor in connector.
- Position the connector between the dies and ensure the correct location of the crimp. (See connectors instruction sheet for number of crimps.)

Ensure that the latch and upper die holder are fully secured, otherwise damage may occur during tool operation.

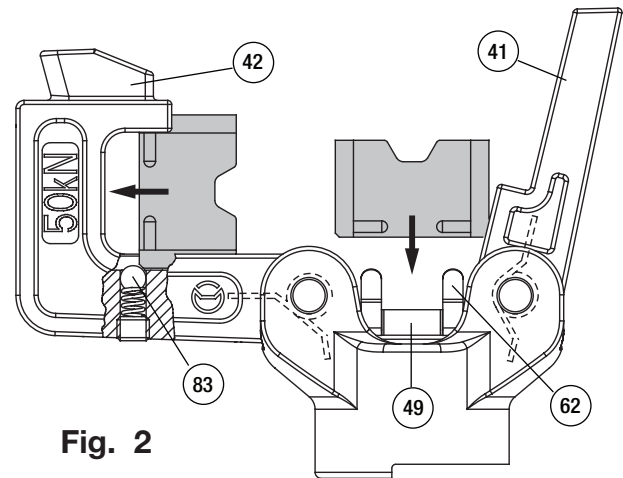


Fig. 2

⚠ WARNING

When operating the tool, keep hands and other body parts away from the danger zone.

2.2 DIE ADVANCEMENT (Refer to Fig. 3)

- Press the operating button (10) to activate the motor-pump and advance the lower die. To halt the advancement, release the operating button (10) and the motor will stop.

Make sure the dies are exactly positioned on desired crimp point, otherwise re-open dies following instructions as per Step 2.5 and position the connector again.

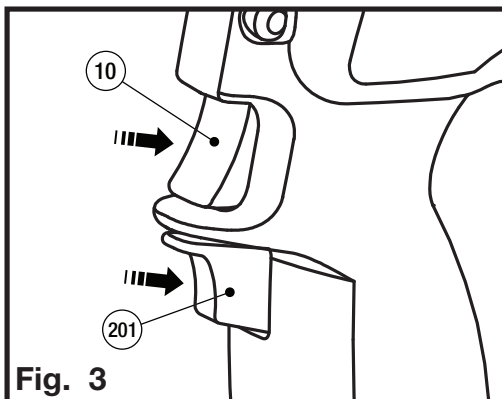


Fig. 3

2.3 COMPRESSION

- By keeping operating button (10) pressed, the motor continues to operate: the ram will gradually move forward until the two dies touch.
- It is recommended to continue pumping until the maximum pressure relief valve is activated and a "click" is heard.
- The motor will continue to operate after the maximum pressure relief valve has activated. No further crimping force is applied, the oil is bypassed and returned to reservoir.

2.4

HEAD ROTATION

- For ease of operation, the tool head can be rotated through 180°, allowing the operator to work in the most comfortable position.

⚠ WARNING

Do not attempt to rotate the head when the hydraulic circuit is pressurized.

2.5

RELEASE OF DIES

- By pressing the pressure release lever (201) located below operating button (10), the ram will retract and open the dies.

⚠ DANGER

DO NOT USE THIS TOOL ON OR NEAR ENERGIZED CONDUCTORS WITHOUT PROPER PERSONAL PROTECTIVE EQUIPMENT.

FAILURE TO OBSERVE THIS WARNING COULD RESULT IN SEVERE INJURY OR DEATH.

3.0

BATTERY USE

The tool is supplied with the batteries completely discharged; before use, fully charge the batteries using the charger supplied.

3.1 BATTERY STATUS (Refer to Fig. 4)

- After releasing the operating button, the residual battery capacity is automatically displayed for 5 seconds on the indicator (15).

The number of LEDs illuminated indicates the residual capacity:

- 10 LEDs illuminated: Fully Charged
- 5 LEDs illuminated: 50% capacity
- 1 LED illuminated: Minimum charge

When replacing the battery, press the two points marked with the word "PUSH" at the same time, remove the flat battery from its housing and insert the new one.

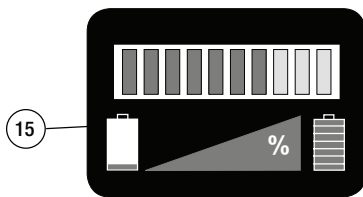


Fig. 4

3.2 USING THE BATTERY CHARGER

Carefully follow the instructions in the battery charger manual.

3.3 USING BATTERIES

In order to use the batteries correctly, please follow these rules:

- Use the battery until the automatic residual energy display still has 1-2 LEDs showing: this means the battery is almost completely discharged and no loss in the life of the battery has been produced.
- Be particularly careful when charging a new battery the first 2-3 times in order to maximize the available energy level.
- Allow the battery to cool down to ambient temperature prior to recharging.
- Rest the battery charger for at least 15 minutes between charges.

4.0

MAINTENANCE

The tool is robust, completely sealed, and requires very little daily maintenance. Compliance with the following points, should help to maintain the optimum performance of the tool:

4.1 THOROUGH CLEANING

Dust, sand and dirt are a danger for any hydraulic device. Every day, after use, the tool must be wiped with a clean cloth taking care to remove any residue, especially close to pivots and moveable parts. Protect the tool from rain and moisture. Water will damage the tool and battery.

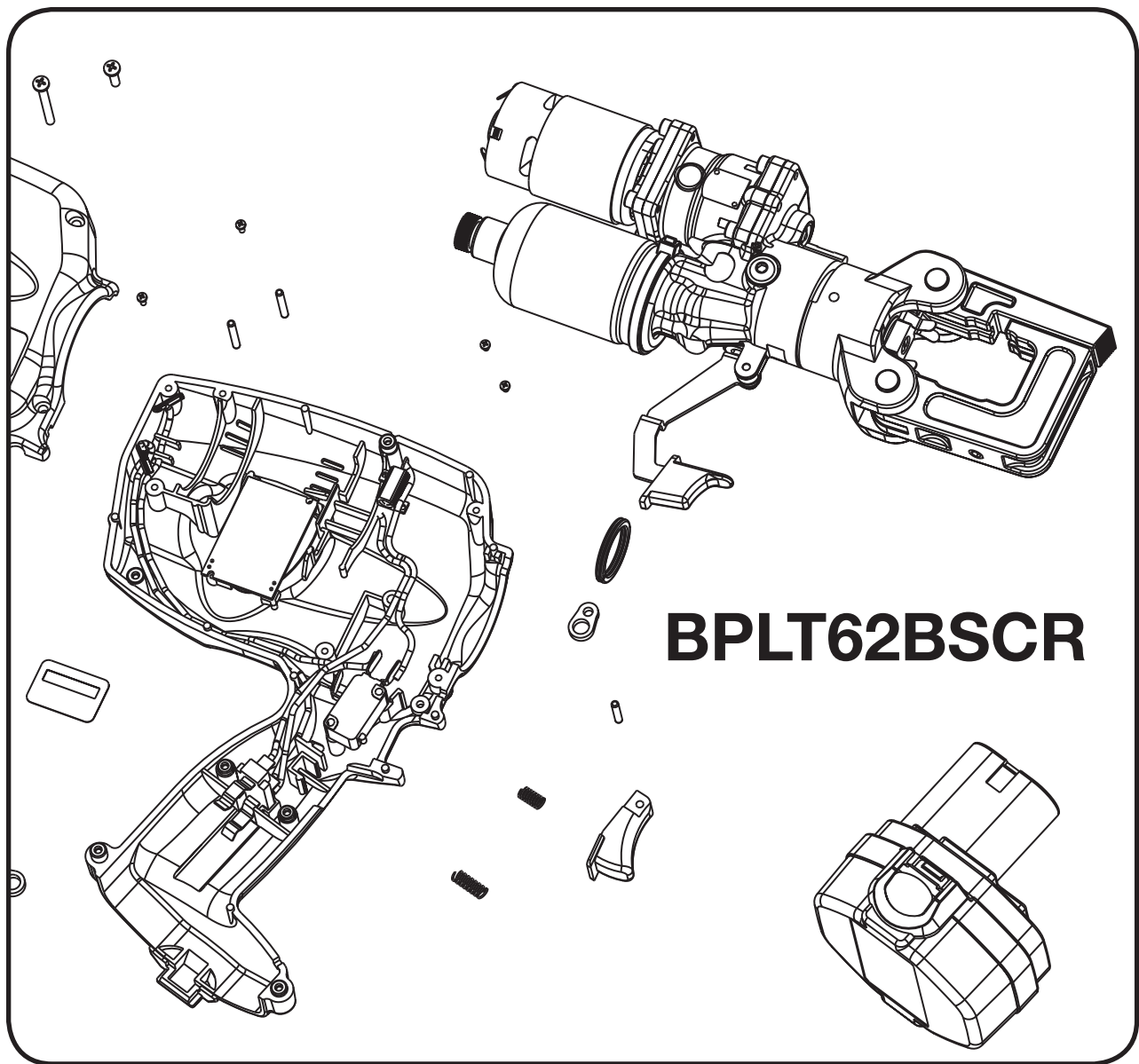
4.2 STORAGE (Refer to Fig 5)

When not in use, the tool should be stored and transported in the plastic case, to prevent damage. This case is suitable for storing the tool, the accessories and up to 21 die sets and pre-prepared compression connectors.

Plastic Case: size 24.1x16.2x5.1 inches, (543x412x130 mm) weighs 5 lbs. (2,3 kg).



Fig. 5



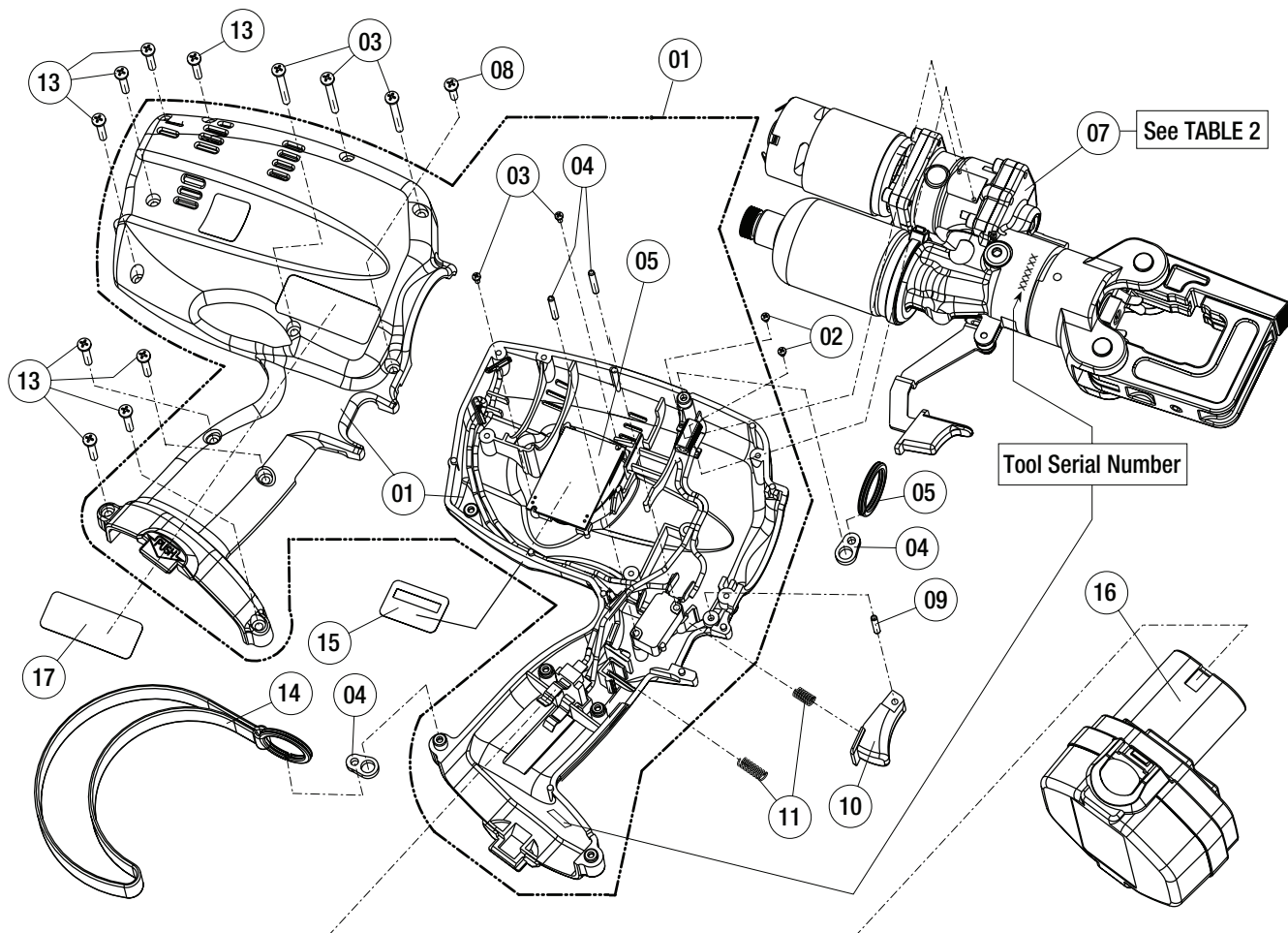
Spare parts kit code no. 6000057 includes items marked “K” in table, available on request.

When ordering spare parts always specify the following:

- Code number of item
- Name of item
- Type of tool
- Tool serial number

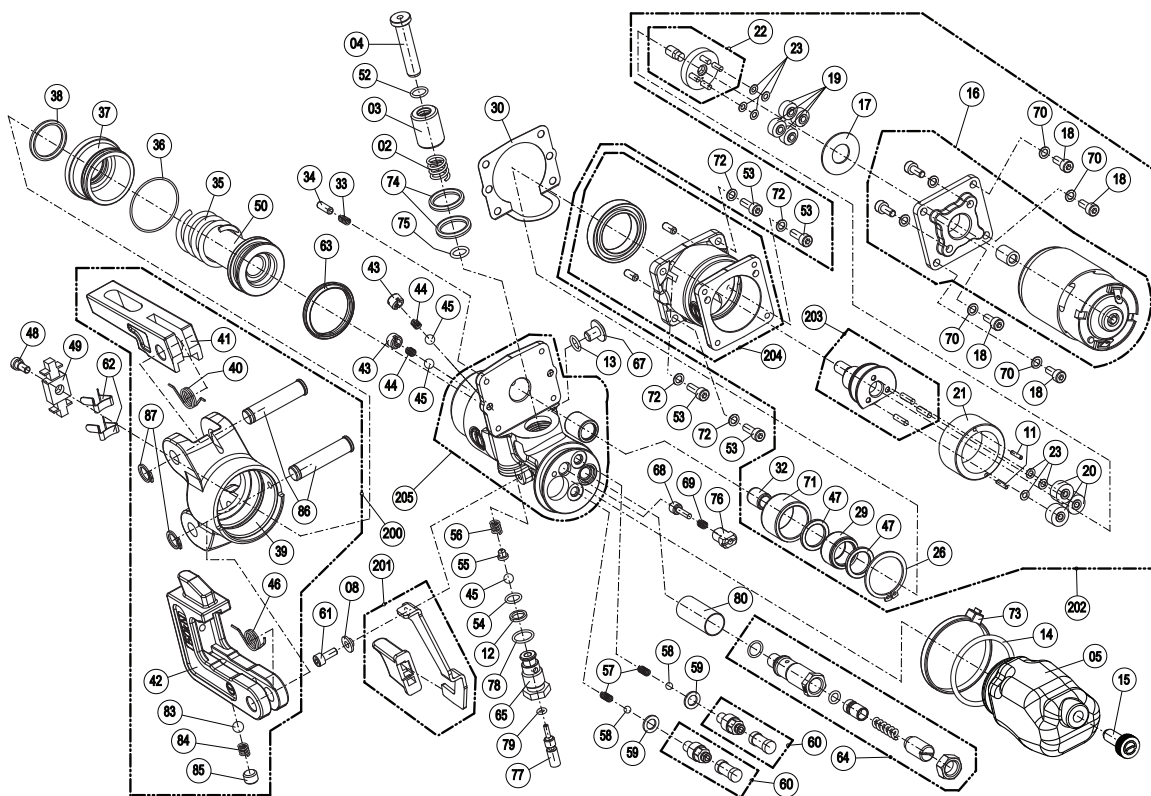
The Guarantee is void if parts are not Thomas & Betts original replacement parts.

For parts or service, contact the tool service center at 1-800-284-TOOL (8665).



Code N°	ITEMS			DESCRIPTION	QTY
	Main	1st Sub	2nd Sub		
6000512	01	-	-	Electric Circuit+Shells	1
6000658	01	01	-	Right + Left Shell	1
6900646	01	03	-	Screw 2,2x6,5	2
6760144	01	04	-	Pin D.3x22	2
6000240	01	05	-	Compl. Electr. Circuit	1
6000649	02	-	-	Screw 2,2 x 4,5	2
6900655	03	-	-	Screw 3,5x38	3
6000304	04	-	-	Ring	2
6040427	05	-	-	Ring	1
6000544	07	-	-	Mechanical Group	1
6900650	08	-	-	Screw	1
6760149	09	-	-	Pin d.3x16	1
6000237	10	-	-	Button	1
6520531	11	-	-	Spring	2
6900651	13	-	-	Screw 3,5x22	8
6000447	14	-	-	Wrist	1
6232095	15	-	-	Label Strap	1
8502001	16	-	-	Battery	1
6232497	17	-	-	Label Strap	1

TABLE 2 (Item 07 from table 1)



Code N°	ITEMS			DESCRIPTION	QTY
	Main	1st Sub	2nd Sub		
6520532	02	-	-	Spring	1 -
6620113	03	-	-	H.S. RAM	1 -
6620109	04	-	-	Pumping Ram	1 -
6720073	05	-	-	Reservoir	1 -
6000330	08	-	-	Spacer	1 -
6040080	12	-	-	Back-Up Ring	1 K
6360022	13	-	-	O-Ring	1 K
6360260	14	-	-	O-Ring	1 K
6800040	15	-	-	Cap	1 -
6361999	30	-	-	Seal	1 K
6520601	33	-	-	Spring	1 K
6760230	34	-	-	Pin	1 -
6520030	35	-	-	Spring	1 -
6361900	36	-	-	O-Ring	1 -
6040556	37	-	-	Ram Guide Ring	1 -
6362020	38	-	-	Seal	1 -
6340590	43	-	-	Grub Screw	2
6520200	44	-	-	Spring	2 K
6740120	45	-	-	Ball	3 K
6900629	48	-	-	Screw	1 -
6780252	49	-	-	Die Support	1 -
6620490	50	-	-	Ram	-
6360161	52	-	-	O-Ring	1 K
6900090	53	-	-	Screw	4
6360140	54	-	-	O-Ring	1 K
6600100	55	-	-	Dowel	1
6520520	56	-	-	Spring	1 K
6520160	57	-	-	Spring	2 K
6740100	58	-	-	Ball	2 K
6641020	59	-	-	Washer	2 K
6900601	60	-	-	Suct. Screw	2 -
6900181	61	-	-	Screw M4x10	1 -
6520382	62	-	-	Die Stop Spring	2 -
6362098	63	-	-	Seal	1 -
6895049	64	-	-	Compl. Valve	1 -
6900640	65	-	-	Press. Release Screw	1 -
6900306	67	-	-	Screw	1 -
6635011	68	-	-	Pin	1 K
6520861	69	-	-	Spring	1 K
6640205	72	-	-	Washer	4 K

Code N°	ITEMS			DESCRIPTION	QTY
	Main	1st Sub	2nd Sub		
6250084	73	-	-	Tie	1 -
6362021	74	-	-	Seal	2 K
6362007	75	-	-	Seal	1 K
6340720	76	-	-	Grub Screw	1 -
6020020	77	-	-	Pin	1 -
6361881	78	-	-	O-Ring	1 K
6360120	79	-	-	O-Ring	1 K
6000385	80	-	-	Bush	1 -
6860012	200	-	-	Compl. Head	1 -
6780150	200	39	-	Head Support	1 -
6520482	200	40	-	Spring	1 -
6370270	200	41	-	Latch	1 -
6780133	200	42	-	Upper Die Holder	1 -
6520403	200	45	-	Spring	1 -
6740020	200	83	-	Ball	1 -
6520942	200	84	-	Spring	1 -
6340138	200	85	-	Grub Screw	1 -
6560370	200	86	-	Pin	2 -
6040725	200	87	-	Circlip	2 -
6440117	201	-	-	Pres. Release Lever	1 -
6000523	202	-	-	Complete Housing	1 -
6760001	202	11	-	Pin	2 -
6000310	202	16	-	Comp. Motor	1 -
6000328	202	17	-	Washer	1 -
6900181	202	18	-	Screw	4 -
6000364	202	19	-	Gear	4 -
6000363	202	20	-	Gear	3 -
6000323	202	21	-	Gear	1 -
6000196	202	22	-	Gear	1 -
6000315	202	23	-	Washer	7 -
6700520	202	26	-	Circlip	1 -
6000392	202	29	-	Bearing	1 -
6040682	202	32	-	Ring	1 -
6220198	202	47	-	Spacer	2 -
6640205	202	70	-	Washer	4 -
6040686	202	71	-	Ring	1 -
6000336	202	203	-	Eccentric	1 -
6000525	202	204	-	Housing	1 -
6160054	205	-	-	Body	1 -

For parts or service, contact the tool service center at 1-800-284-TOOL (8665).

WARRANTY: Thomas & Betts sells this product with the understanding that the user will perform all necessary tests to determine the suitability of this product for the user's intended application. Thomas & Betts warrants that this product will be free from defects in materials and workmanship for the period stated on the enclosed warranty card. Upon prompt notification of any warranted defect, Thomas & Betts will, at its option, repair or replace the defective product. Misuse, misapplication or modification of Thomas & Betts products immediately voids all warranties.

Limitations and Exclusions: THE ABOVE WARRANTY IS THE SOLE WARRANTY CONCERNING THIS PRODUCT, AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED. LIABILITY FOR BREACH OF THE ABOVE WARRANTY IS LIMITED TO COST OF REPAIR OR REPLACEMENT OF THE PRODUCT, AND UNDER NO CIRCUMSTANCES WILL THOMAS & BETTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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