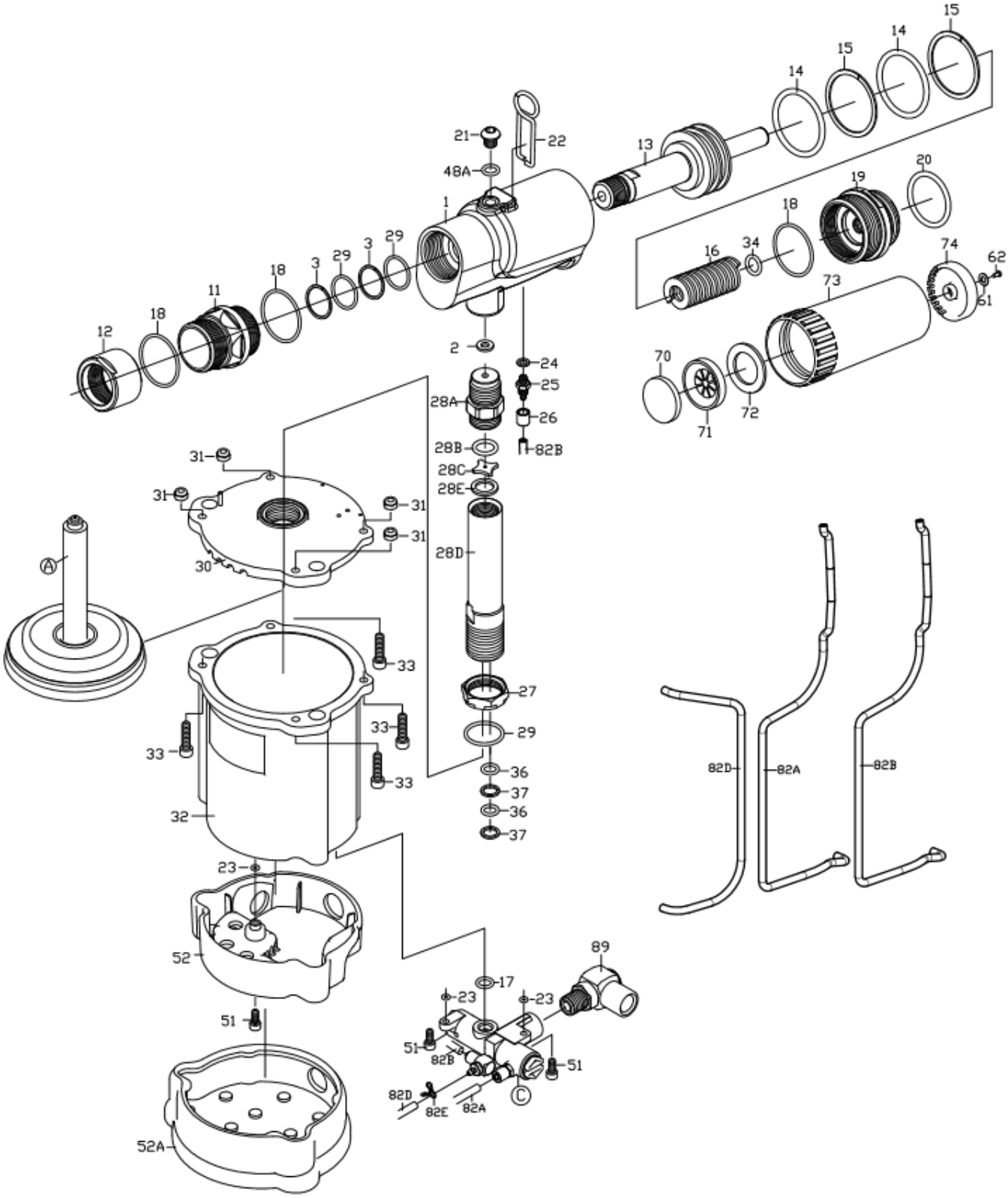
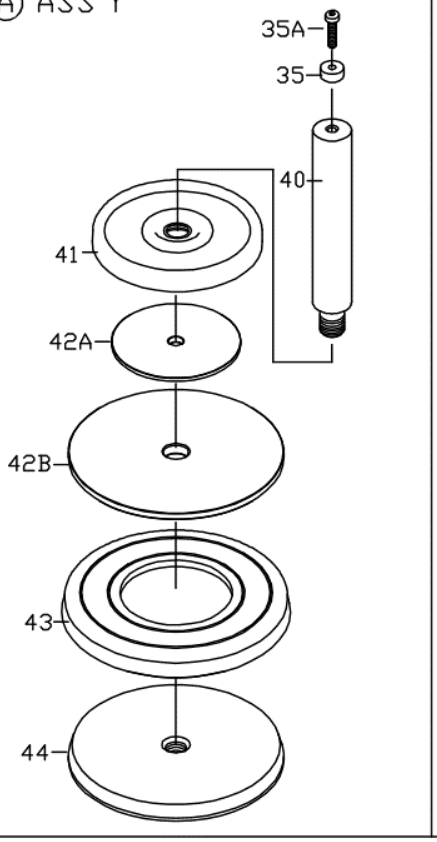
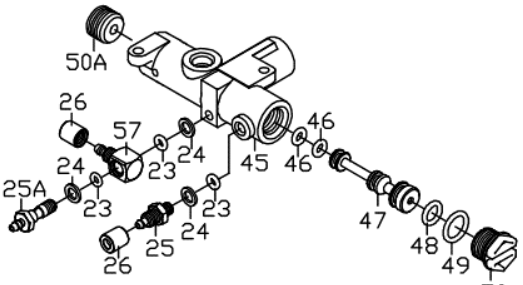
ZT3213D 3/8" Air Hydraulic Installation Tool

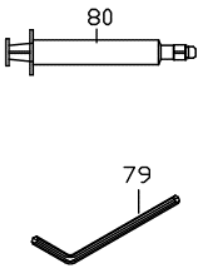


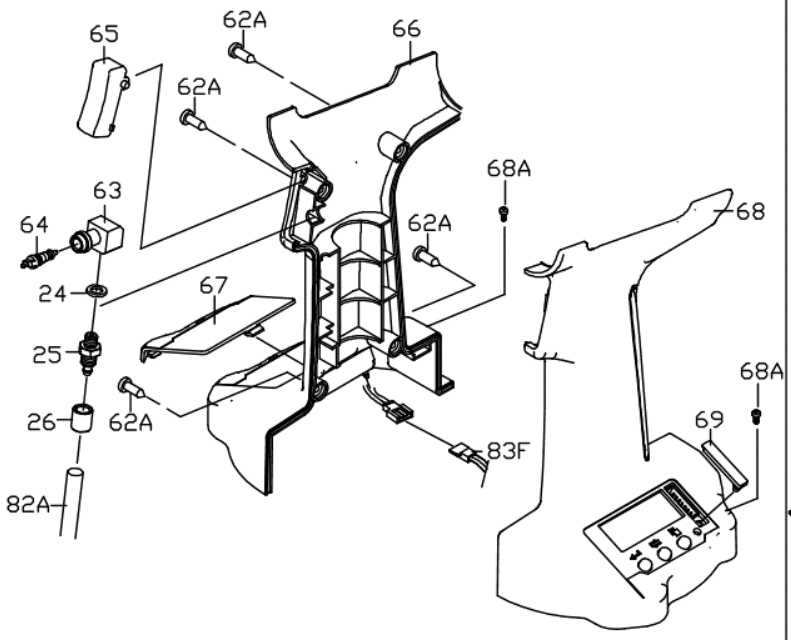
Ⓐ ASS'Y



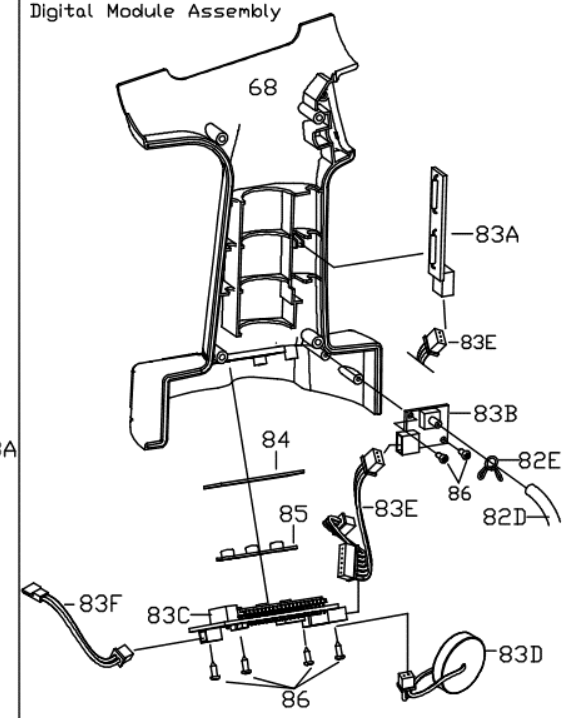
Ⓒ ASS'Y







Digital Module Assembly



ZT3213D 3/8" Air Hydraulic Installation Tool

TECHNICAL DATA

Traction Power	lbf(kgf)	:	(3200)
Stroke Length	mm	:	13
Net Weight	lbs(kgs)	:	5.6(2.5)
Nosepieces Equipped	inch(mm)	:	Need to purchase separately.
Max. Capacity		:	3/8" (10mm) steel monobolt / C6L lock bolts

PARTS LIST

Index	Part #	Description
1.	321101	Hydraulic Section
2.	318203	Rubber Washer
*3.	BR2025	Back-Up Ring (2)
11.	321105	Head
12.	321103	Front Cap
13.	321301	Hydraulic Plunger
*14.	OR3946	O-RING (2)
*15.	BR3946	Back-Up Ring (2)
16.	321319	Return Spring
17.	OR0812	O-RING
18.	OR3034	O-RING (3)
19.	321102	Rear Gland
20.	OR3542	O-RING
21.	HR00812508	Set Screw
22.	258801	Hanger
23.	OR0306	O-RING (6)
24.	612714	Washer (5)
25.	612717	Socket (3)
25A.	612713A	Socket
26.	612711	Cap (4)
27.	520106	Nut
28A.	3211082	Hydraulic Tube Connector-B
28B	OR1417	O-RING
28C	8211012	Hydraulic Tube Washer
28D	2021081	Hydraulic Tube Connector-A
28E	5201083	Washer
*29.	OR2025	O-RING (3)
30.	202401R	Upper Cover
31.	NN005080	Nut (4)
32.	202403RZ	Air Cylinder Body
33.	HC00508020	Set Screw (4)
34.	OR1419	O-RING
35.	258504	Magnet
35A.	TC00508010S	Set Screw
*36.	OR1621	O-RING (2)
*37.	BR1621	Back-Up Ring (2)
40.	202501	Plunger Rod
41.	202505	Bumper Ring
42A.	202504	Front Head Disc A
42B	202503	Front Head Disc B
43.	920505	Packing Ring
44.	202502	Lower Plate
45.	919211	Valve Case
*46.	OR0408AS	O-RING (2)
47.	919202A	Valve Stem
*48.	OR0711	O-RING
48A.	OR0711A	O-RING
*49.	OR1014	O-RING
50.	107409	Inlet Plug
50A	922409	Plug
51.	HC00407010	Set Screw (3)
52.	202402	Base
52A.	202404	Rubber Boot
61.	PW0306	Washer
62.	ST0310	Screw
62A.	HC00305006	Set Screw (4)
63.	107602	Valve Body
64.	107601	Bleeding Valve
65.	107201R	Trigger
66	202107RE	Plastic Grip-Right
67.	202107C	Battery Cap
68.	202107LE	Plastic Grip-Left
68A.	HR002504506	Set Screw (2)
69.	202E09	Dust Cover
70.	919904	Silencer
71.	919903	Muffler Seat
72.	919905	Silencer
73.	919901	Mandrel Collector
74.	919906	Muffler Cap
79.	314755	5mm Hex. Wrench
80.	922901	Oiler
82A	202704A	2.5x4 PU Hose(Black)
82B	321704B	2.5x4 PU Hose(Orange)
82D	202704D	2.5x4 PU Hose(Black)
82E	258804	4mm Hose Loop (2)
83A	202E01	Counter Sensor
83B	202E02	Pressure Sensor
83C	202E03	Digital Display
83D	202E04	Lithium Battery
83E	202E05	Signal Terminal
83F	202E06B	Power Cable - Display Terminal
84	202E07	Display
85	202E08	Button
86.	ST0206	Screw (6)
89.	92L2	Air Inlet Assembly
90	3213SK	Service Kit (opt.) (No.03.14.15.29.36.37.46. 48.48A.49)

Maintenance Schedule

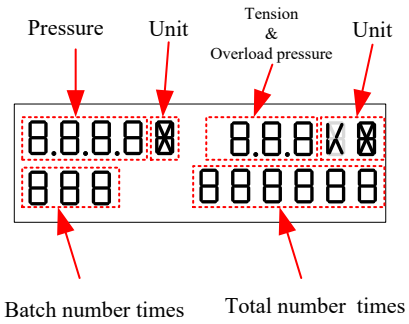
Frequency	Action
Daily after work or every **5,000 cycles**	Lubricate tool through **air inlet**. Clean inside of **Head**
Jaws will not grip rivet stem or **Every 20,000 cycles**	Replace new Jaws
When oil leakage occurs or every **50,000 cycles**	Replace **O-Rings** and **Back-Up-Rings** in **Hydraulic Section** and **Hydraulic Tube**.
every **100,000 cycles**	Replace **Packing Ring** in **Air Cylinder**

Troubleshooting

Symptom	Diagnosis	Remedy
Rivet cannot be set by a single pull	1. Low working air pressure 2. Tool requires re-priming 3. Worn **Jaws** or dirt in **Jaws** 4. Broken **Jaws**	1. Check air pressure at the tool. 2. Priming the tool correctly according to the instruction 3. Replace the **Jaws**
The tool can't do suction	The **Suction Switch** didn't open	Turn on the **Suction Switch**.
Jaws will not grip rivet mandrel	1. Worn **Jaws** or build up of dirt on **Jaws** 2. **Jaw Housing** loose 3. Weakened **Jaw Pusher Spring**	1. Clean before replace new **Jaws** 2. Tighten **Jaw Housing**, **Jaw Housing Coupler** and **Nut** 3. Replace new **Jaw Pusher Spring**
Broken **rivet mandrel** can't be released by **Jaws**	1. Dirty **Jaws** and **Jaw Housing** **2.** Weakened **Jaw Pusher Spring** 3. Hydraulic oil over primed.	1. Clean and re-lubricate **2.** Replace **Jaw Pusher Spring** 3. Remove **Plug Screw** and **O-Ring**, let it spill till stop by itself
Broken **rivet mandrel** jammed inside the **Head**	1. Damaged **Jaws** 2. Damaged or dirty **Jaw Pusher**	1. Replace **Jaws** 2. Replace or clean **Jaw Pusher**
The suction force is not strong enough to suck broken mandrel	1. Low air pressure **2.** Air leakage inside **Suction Switch**	1. Check and regulate proper air pressure 2. Check if exhaust air is stuck at rear end of **Collector** 3. Check and replace **O-Rings**
Digital monitor no display or show "Low"	Low battery power.	Replace new battery
Digital monitor show "Er1".	Inlet pressure is higher than 7.5kg/cm^2.	Adjust the inlet pressure to the pressure below 7.5kg/cm^2.
Digital monitor show "Er2".	1. Oil leaking causes insufficient hydraulic oil 2. Improper assembly of the tool	1. Check the cause of leakage and replace seals if necessary 2. Re-prime hydraulic oil.

Digital Module Operation

1. Digital monitor



2. Button explanation

There are three button on the plastic grip-left.

⧉：**Module button**. The button is used to choose unit or 0~9 number.

⇆：**Shift button**. The button is used to select the mode.

↵：**Enter button**. The button is used to confirm setting.

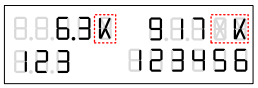
3. Turn on & turn off the monitor

Turn on：Push⧉ button or the tool is working.

Turn off：No actuating the tool within 30 seconds, the monitor will be shut down automatically

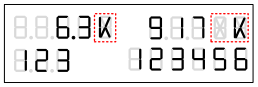
4. Unit Selection

a. Push↵ button 3 seconds. Enter mould function, the monitor begins to flash.



b. Push ⇆ button. Pressure and **pulling force** display begins to flash.

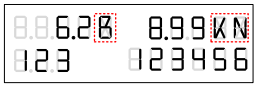
c. Push ⇆ button. Enter **Unit** choose mode, Air Pressure and **pulling force** unit display begins to flash.



d. Push ⧉ button. Change unit.



Push ⧉button again. Change unit.



Push ⧉ button again. Change unit.



e. Push ↵ button. Finish **Unit** setting. The monitor stop flashing.

Table 1 below is **Unit** selection of **Air Pressure** and **Pulling Force**.

Table 1. Unit displays

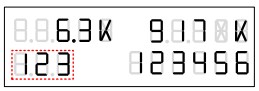
	Air Pressure unit	display	Pulling Force unit	display
ISO	Kg/Cm^2	K	KgF	K
ISO	MPa	M	NF	N
Newton	Bar	B	NF	N
ISS	Psi	P	LbF	B

5. Setting batch number

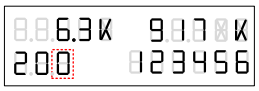
a. Push ↵ **button** 3 seconds. Enter module function, the monitor begins to flash.



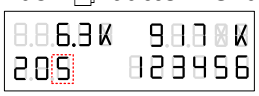
b. Push ⇆ **button.** The batch number display begins to flash.



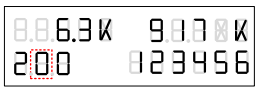
c. Push ↵ button. Enter batch number times function. The first number display begins to flash.



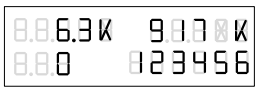
d. Push ⿻ button. Change number 0~9.



e. Push ⇆ button. Change numbers'.



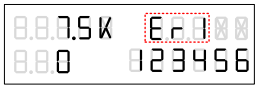
f. Push ↵ button. Finish batch number setting. The monitor is stop flashing. Batch number display will show "0".



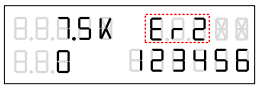
g. Push ↵ button twice, the batch number display will show "0"

6. **Error massage**：

a. If working air pressure is over 7.5 kg/ cm^2(107psi), the monitor will display "Er1".



b. Insufficient hydraulic oil inside Hydraulic Section, the monitor will display "Er2".



c. If battery is low power, the monitor will display "Low".

