



AccuBird Riveting Tool

PSM16

1. Riveting Tool

1.1. Work Capacity

Blind Rivets up to 5mm (3/16") diameter all materials
 BULB-TITE Rivets 4; 5,2 and 6,3 mm diameter. Aluminium and steel.
 BULB-TITE Series Numbers: RV6601 RV6602 RV6604
 RV6606 RV6671 RV6676

1.2. Equipment / Accessories

Nosepiece: 17/24 in working position
 17/27, 17/29, 17/32 in nosepiece-holder
 Wrench: SW 12 (cover for nosepiece holder)
 Suspension loop: Concealed in housing
 Battery (quick-change): 12Volt

1.3. Technical Data

Weight: 2,2kg (4,85lbs) w/ battery
 Stroke: 20mm (.787")
 Drive Unit: 12V direct current motor
 Traction Power: 8.500N(1.900lbs)
 Noise Emission: 78,5dB
 Vibrations: < 2,5m/s

1.4. Nosepiece table

Rivet Ø (mm)	Rivet body material	Nosepiece	Part No.
2,4	Alum	17/18*	725 2075
3,2	CAP-Alum, CAP-CU	17/18*	725 2075
3 and 3,2	Alum, CU, Steel, Stainless Steel, Stinox, Alum/Alum, PG-Alum, PG-Steel, PG-Stainless Steel	17/24	725 1583
4	Alum, CU, CAP-Alum, CAP-CU	17/24	725 1583
4	Steel, Alum/Alum, PG-Alum	17/27	725 2040
4	Stainless Steel, Stinox, PG-Steel, PG-Stainless Steel	17/29	725 2059
4,8 and 5	Alum, CAP-Alum, CAP-CU, PG-Alum	17/29	725 2059
4,8 and 5	Steel, Alum/Alum	17/32	725 2067
4,8 and 5	PG-Steel	17/36*	725 2083
6	Alum	17/36*	725 2083

BULB-TITE Ø (mm)	Rivet body material	Nosepiece	Part No
4	Alum/Alum	17/26 BT*	725 2202
5,2	Alum/Alum	17/32 BT*	725 2210
6,3	Alum/Alum, Steel/Steel	17/42 BT**	725 2229

BULB-TITE Ø (mm)	Rivet body material	Jaw Pusher BT	Part No	Jaws BT	Part No
6,3	Alum/Alum, Steel/Steel	54**	725 2245	55**	715 1527

* Available as special accessories. Elongated nosepieces and other special nosepieces are available upon request.
 ** Also Available as a complete set (#50) part no. 725 9290.

1.5. Safety Instructions

Blind rivet setting tool AccuBird

Caution: Following safety rules must be followed for adequate protection against electrical shock, injuries or fire hazards:

- The riveting tool should be used exclusively to set blind rivets.
- Do not overload the tool; Work within the prescribed work capacity.
- Do not expose the tool to humidity or rain, do operate the tool close to inflammable substances or gases: **Risk of explosion!**
- Ensure that the battery is properly secured in the tool handgrip.
- Remove the battery when the tool is not in use and for repair / servicing operations.
- Do not use the tool as a hammer.
- When not in use, keep the tool in a dry closed room, out of reach of children.
- When working with the tool, always carry protection goggles. Personal protection like clothes, gloves, safety helmet, non-slipping shoes, ear protectors and protection against fall are highly recommended.
- The air inlets for the engine should not be obstructed. Do not introduce anything into them.
- When depositing the tool, make sure that it cannot fall down.
- Use only genuine spare parts for repair.
- Repair work must be carried out by skilled personal. In case of doubt, always send the tool back to the supplier / manufacturer.
- Do not use the tool outside of riveting holes. The blind rivet could be ejected from the tool. Never turn the tool towards yourself or towards another person.
- Part No 39 (mandrel container) must be mounted on the tool during operation.

1.6. Starting Procedure

- Engage full charged battery in correct position into housing.
- Select correct nosepiece (according to table 1.4) and screw into head.
- Attention: Do not cover the vent holes and do not obstruct the vent holes.

1.7. Operating Procedure

- Depressing the switch starts the operation.
- When releasing the switch the jaw assembly returns to the start position automatically.
- Eject the spent mandrel by tilting to the rear into the spent mandrel container or to the front through the nosepiece.
- The riveting tool is equipped with an overload protection. In the event of an overload the operation will be stopped and the red light shows. Release the switch and the assembly will return to the start position.
- The battery will keep the power relatively stable until a sudden drop-off, resulting in only 2-3 more rivets being set. The jaw mechanism will automatically return to the starting position when the switch has been released

1.8. Maintenance

- Remove the battery (part no. 40) from tool housing.
- Unscrew the head (part no. 13) from the tool and clean. Look for deposits in the head.
- Unscrew the jaw housing (part no. 12) from the coupler (part no.7) using and open end wrench SW 17.
- Take out the jaws (part no. 11), clean and lubricate or replace them if worn.
- Re-assemble in reverse order ensuring that all parts are tightened.



2. Charger and Battery

2.1. Technical Characteristics

2.1.1. Battery Charger

Type: ETYEZ305SE-C
 Input voltage: 220-240VAC/50Hz
 Output voltage: 12VDC
 Output current: 3A max.
 Weight: 0,5kg

2.1.2. Battery

Nominal voltage: 12VDC
 Number of cells: 10
 Cell/Capacity: NiCd / 1,4Ah: 1,7Ah: 2,0Ah
 NiMH / 3,2Ah
 Weight: approx. 0,62k

2.2 Safety Instructions

2.2.1. Battery charger

- The charger must be exclusively used to charge GESIPA batteries.
- Check regularly cord, plug and device and have it fixed by skilled personal when damaged.
- Use exclusively genuine plugs and cords and genuine spare parts for repair.
- Never use the charger in humid or wet environments, or close to inflammable substances or gases: **Explosion Hazard!**
- Never try to charge non-rechargeable batteries.
- Store the charger in a dry closed room, out of reach of children.
- Never insert metallic parts into the charging bay: Short circuit hazard!
- When the charger is wall-mounted, make sure that the inserted battery cannot fall down.
- Do not operate this battery charger at altitudes exceeding 2,000 meters above sea level.
- Battery charger should not be operated by physically disabled or mentally affected people, or by untrained or unskilled people.

2.2.2. Battery

- Never try to charge a damaged battery.
- Do not insert a dirty or wet battery into the charger.
- Never throw batteries into the waste, into fire or into water.
- Do not charge a battery when the environment temperature is below 0°C

2.3. Charging Procedure

- Charge only GESIPA batteries when the environment temperature is between 0°C and 40°C.
- Take the charger out of its package and connect to mains. Check the input voltage on the type label before connecting.
- Insert the battery in the right way (pole+ to pole+) into the charger bay. Insertion should take place without noticeable effort.
- The charging operation starts automatically when the battery is inserted into the charging bay.

Function Lights:

Steady green: Battery is charged.
 Blinking green: Charging.
 Steady red: Charging temperature out of range (battery too hot or too cold)
 Blinking red: Battery is defective.

Typical Charging Cycles:

Type	Part Number	Charging Cycle *
1,4 Ah NiCd	725 1017	Approx. 35min
1,7 Ah NiCd	725 1092	Approx. 40min
3,0 Ah NiCd	725 1095	Approx. 45min
3,2 Ah NiMH	725 1030	Approx. 70min

* Charging cycles may vary according to the rest capacity and the battery temperature.

2.4. Battery Handling

- Use only cold batteries to obtain optimum charging.
- The GESIPA batteries can be charged approximately 1,000 times and reaches its maximum capacity after several charging cycles.
- Do not insert the battery into the charger after each use, but wait until the battery is fully discharged (tool cannot set the rivet).
- Recharge the battery after a long period of inactivity.
- Battery autonomy becoming shorter despite proper recharging means that the battery must be replaced.
- Keep the battery in dry and warm rooms. The optimum operating temperature range is 10°C to 50°C.

2.5. Environmental Protection

If batteries have to be replaced, the following instructions should be followed:

- Bring back discarded batteries to your GESIPA agent or to GESIPA for recycling.
- Never throw away discarded batteries into waste, fire or water.

3. Trouble Shooting

3.1. Blind Rivet Cannot Be Set

Causes

- Battery empty
- Jaws dirty or worn
- Jaw assembly loose
- Jaw pusher spring weak
- When trigger is pressed, non-function (red light)

Remedy

Charge (replace if necessary)
 Clean and lubricate or replace (see 1.8.)
 Tighten (see 1.8.)
 Replace
 (See par. 3.3.)

3.2. No Spent Mandrel Discharge

Causes

- Wrong nosepiece
- Nosepiece worn
- Mandrel jammed in jaws
- Dirt inside head
- Spent mandrel container full
- Mandrel guide tube blocked

Remedy

Exchange according to table 1.4.
 Replace
 Loosen the mandrel, clean jaws and jaw housing, lubricate surface, respectively replace jaws (see 1.8.)
 Clean (see 1.8.)
 Take off and empty
 Remove clogged mandrels and check for free ejection (see 1.8.)

3.3. Red Light Indicates Faults

3.3.1. When trigger is pressed

Causes

- Tool not in front position

Remedy

Release the trigger

3.3.2. While pulling the rivet

Causes

- Overloading
- Overheating of electronic control
- Battery empty

Remedy

Check working capacity according to table 1.4.
 Allow the tool to cool off in air
 Charge or replace

3.3.3. After releasing the trigger

Causes

- Jaw assembly does not reach the front position

Remedy

Screw on the jaw assembly tightly (see 1.8. and 3.2.)

3.3.4. Note

- In case of trouble indicated by the red light, which can't be eliminated as described above, the tool has to be repaired by trained personnel only or to be returned to the distributor or the manufacturer.