



Advanced Training Systems

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PT-51 “Dummy Dumper” Reactive Target

Operations Manual



Read and fully understand the operations manual before using PT-51 Target

PT-51 “Dummy Dumper” Reactive Target

Quick Start Guide and Manual

Your new system will come in one box. It will contain the following.

1. Battery compartment skid
2. Target holder bracket
3. Column assembly
4. Length of PVC pipe
5. Hit sensor and cable

Before you Shoot, Charge your unit fully and inspect for any signs of damage. Check the 2 nuts that hold the battery skid in place. Due to the harmonic vibration in the plate they may need to be tightened from time to time.

1. Remove Manikin Tube Bracket, Battery Box and Frame, Column assembly with Rubber protective cover from shipping box.
2. Remove the two nuts/washers from the studs on the Battery Box Frame.
3. Lift and align the two rear holes on the Column base plate with the studs on the Battery Box Frame, lower the Column over the studs. Attach with washers/nuts. (Note: Battery box should be on the same side as the control panel on the Column)
4. Connect the battery box plug with the mating plug cord from the control panel.
5. Open the battery box and attach the connector ends onto the battery terminals. (Note: be sure to connect black to (-) and red to (+) battery terminals.)
6. Attach the Manikin Tube Bracket to the Column by pushing the Tube Bracket into the latch on the Column.
7. Connect Manikin Mike™ hit sensor to connector on face of column.
8. Rotate the control switch to the test location. The unit will “eject” the Tube Bracket after a few seconds. Re-attach the Tube Bracket.
9. Your unit is now ready for use. Attach the Manikin on the Tube Bracket, wrap the cable tether around the left leg of the Manikin and clip it back to itself, connect the hit sensor cable to the control panel, adjust the switch for the desired number of hits.
10. (Note: See the Manikin Instructions for proper assembly of the Manikin)

Storing the unit after use

1. Turn the power Off
2. Open the Battery Cover and disconnect both Red and Black wires from the Battery.
3. Charge the unit fully or place on Charger/ Maintainer (see charging section)
4. Store in a sheltered location. The PT-51 is not designed to be left outdoors in the elements on a continual basis. Although all items are resistant to most environmental conditions while in use, prolonged exposure to the elements will cause premature failure and is not covered under warranty.
5. The user may store the unit completely assembled.

Charging the Battery

1. Open the battery Cover
2. Disconnect the Positive and Negative wires from the battery
3. Connect a 12VDC battery charger/maintainer with a current rating of 2A or less. Over-charging the battery will shorten its life and cause premature failure.

Note: To maximize battery life, Charge the unit after use and store with a fully charged battery. The user should also “top off” the battery before use of the ST-71. If using a maintainer it is acceptable to leave it connected until the ST-71 is ready to use.

Periodic Inspection and Maintenance

The ST-71 is designed to be a service-free device. There is no scheduled service items or serviceable points within the actuator. If the user desires a small amount of lubricant such as WD-40 can be applied to the latch mechanism. It would be good practice to wipe clean any excess oil and grease to prevent dust and dirt buildup.

Trouble shooting:

If the unit fails to operate check the battery voltage with a voltmeter. The battery should read between 11V and 13.5V. If the battery is low recharge it and test again.

Any 12VDC 7.5AH sealed lead acid battery with ¼” terminals will work. They are available at most battery suppliers. ATS offers these batteries as a service part. Please call 651-429-8091 or email info@atstargets.com to order.