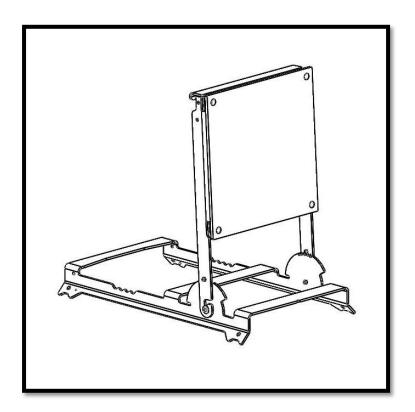


# Pacifica Target Instruction Manual



**Mason Target Systems, LLC** 

**Patent Pending** 



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#### Warranty/Limitations on Liability

Mason Target Systems, LLC (the "Company" or "MTS") warrants that all components of the product, except the computer and base station, to be free from defects in material or manufacturing until the earlier of i) 90-days from the date of purchase or ii) until the product is impacted by a bullet or comparable projectile. MTS warrants the computer and base station to be free from defects in material or manufacturing for 90 days from the date of purchase. This warranty does not apply to: (1) uses not in compliance with the instructions for use included with the product and that are available on our website at www.masontargetsystems.com; (2) modified products; or (3) normal deterioration due to use of the product.

All warranty obligations of the Company shall be limited, at the discretion of the Company to repair or replacement of the defective part. These remedies shall constitute the Company's sole obligation and sole remedy of purchaser under this warranty. IN NO EVENT WILL THE COMPANY BE RESPONSIBLE FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL LOSS OR DAMAGE, HOWEVER CAUSED.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE, ALL SUCH WARRANTIES BEING HEREBY EXPRESSLY EXCLUDED. THE FOREGOING DOES NOT AFFECT ANY WARRANTIES THAT CANNOT BE EXCLUDED OR LIMITED UNDER APPLICABLE LAW. This warranty may change periodically -- consult our website at www.masontargetsystems.com for current information.



#### Warnings

- 1) Improper use of target may result in property damage, serious injury or death
- 2) Do not attempt to use a damaged target as it may result in injury or death to user or others
- 3) Obey all gun and steel safety rules
- 4) Do not attempt to move, lift or setup the target by yourself since target is heavy and can result in serious injury or death
- 5) Edges are sharp, keep all fingers and toes away from moving and rotating parts
- 6) The target is not a toy and is not suitable for children under the age of 18
- 7) Do not shoot any surface except for the front of the target plate
- 8) Avoid shooting protruding carriage bolts on target face
- 9) No steel core ammo as it may penetrate target or ricochet back to the user
- 10) Damaged frames may not be structurally sound and should not be used
- 11) Only use the Pacifica target for its intended purpose
- 12) Only use target in approved shooting ranges and training facilities
- 13) Fragmentation from bullet impact is dangerous. Do not put target near anything that would not survive an impact from a bullet
- 14) Residual lead left on target from bullets is toxic. Thoroughly wash hands and clothes after contact. Proposition 65 Warning – Targets with lead residue contain a chemical known to the State of California to cause birth defects, reproductive harm, or cancer
- 15) Always know what is behind and around your target before shooting



- 16) The electronics of the target system use a Lithium Ion (Li-ion) battery. Li-ion batteries are volatile. Failure to read and follow the below instructions may result in fire, electric shock, personal injury and damage to the target system or other property
- 17) Only use the li-ion specific charger included with the target system
- 18) There are no user serviceable parts in the target system electronics. Do not attempt to replace the battery yourself damage to the battery could occur, which could cause overheating and injury
- 19) Do not use damaged cables or chargers, or charge the battery when moisture is present, as doing so may cause a fire, electric shock, or damage to the target system or other property
- 20) When charging the battery, make sure the USB cable is fully inserted into the power adapter before plugging the adapter into a power outlet
- 21) Keep the target system and power adapter in a well-ventilated area when charging. Charging the target system electronics in any area with a potentially explosive atmosphere, such as areas where the air contains high levels of flammable chemicals, vapors, or particles (such as grain, dust, or powders) may be hazardous
- 22) Restrictions related to the transport of target system may apply due to the use of the Li-ion battery in the electronics. Check with your local transportation services to determine whether any such restrictions apply to your manner of transport



#### **FCC Compliance Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

**Important:** Changes or modifications to the electronics not authorized by Mason Target Systems could void your authority to operate the equipment. This product has been tested and approved under its current design. It is important that you use Mason Target System approved antennas and cables to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

**CAUTION!** This equipment is approved only for mobile and base station transmitting devices. Antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC ID: 2AHVD-100LR01A CONTAINS FCC ID: MCO-XB900HP



## **Pacifica Target Set**

Quantity	Item	
1	Pacifica Target Frame	
1	AR500 Target Plate	
1	Target Computer	
1	Base Station	
1	USB Charging Cable	
5	Sensor Modules	

### **Pacifica Schematic**

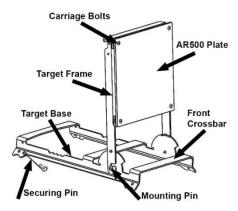


Figure 1

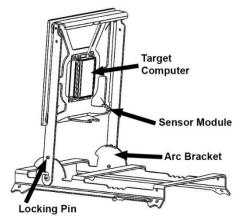
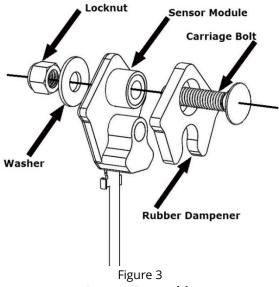
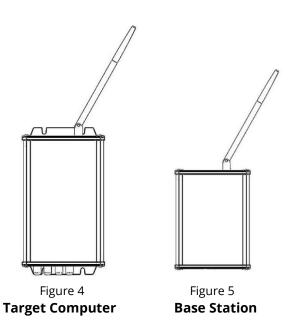


Figure 2





Sensor Assembly



**Patent Pending** 



#### **Target Specifications**

#### **Product Specifications**

- Shooting configuration: H 29.5" x W 19.75"x L 31.50"
- Storage position: H 6.5"x W 19.75" x L 33.25"
- Weight: 80 lbs.
- Tilt: Adjustable up to 16° forward or backward from vertical Recommended Calibers
- Pistol calibers with power greater than .22
- Rifles the Pacifica model is designed for pistol calibers
   Rifles will significantly decrease system's life
- Standard AR500 steel shooting rules apply do not shoot rifle at steel closer than 150 yards and pistol closer than 15 yards Shooting at closer distances will reduce the longevity of the AR500 target plate, related components, and will increase risk of injury/death from ricochet and bullet fragmentation
- Magnum should be used at distances greater than 25 yards
- Bullet types no steel core rounds

#### **Operating Tolerances**

- Estimated temperature: 32°F 113°F
- Recommended maximum target range: 1,500 yards (distance depends on shooters environment)
- Minimum safe distance:
  - o Pistol 15 yards (magnum 25 yards or further)
  - Rifle 150 yards (not recommend on Pacifica target)
- Recommended distance: To maximize the target's longevity, shoot from longer distances when using larger calibers

#### Electronics

- Rechargeable lithium-ion battery
- Estimated active battery life: 16 hours
- Estimated idle battery life: 20 hours
- Charging voltage: 5V
- Bluetooth 4.0: Requires iPad Gen 3 or higher

### Additional Features (Sold Separately)

- MTS Wheel & Handle Set
- MTS 2x4 Mount



#### **Safety Warnings**

- 1) Instructions contain information crucial to the safe operation of the Pacifica
- 2) Safe set up, maintenance, and target transportation always requires two people
- 3) Read included Steel Safety Sheet and 10 Commandments of Gun Safety
- 4) Do not dispose of instructions or safety material
- Inspect all components before use. If parts are damaged or missing, do not use and contact us at support@masontargetsystems.com
- 6) Failure to follow the safe operating procedures described herein and the other materials referenced above may result in property damage, severe injury or death

# **Target Warning Labels**

Keep hands and feet clear from area. Properly lock target in place before servicing



Figure 6

ACAUTION

Heavy object.
Two person lift required.

Figure 7

Pinch point. Keep hands clear of moving joints at all times

Object is heavy. Always lift and move with two people



Figure 8

Keep hands and fingers away from sharp edges and pinch points



Figure 9



### **Setting Up Your Pacific Target**

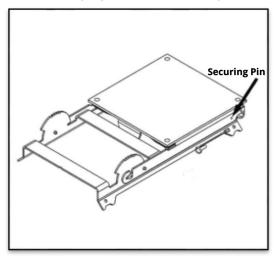


Figure 10

- 1) With two people handling the target, place target with the AR500 steel plate facing up
- 2) Pull rings to remove securing pins located on both sides of the target

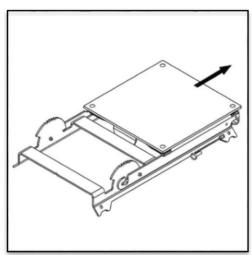


Figure 11

3) Slide the AR500 plate laterally to disengage the target frame from the storage position



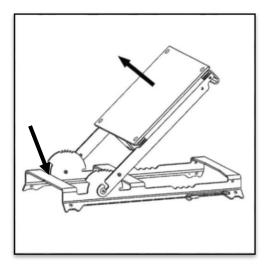


Figure 12

4) With two people, lift and rotate the target frame to the desired angle while applying downward pressure with your foot on a crossbar

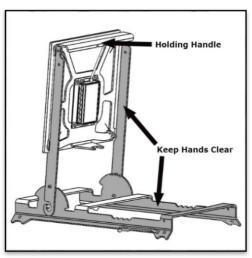


Figure 13

5) Keep hand and fingers clear of shaded areas shown above



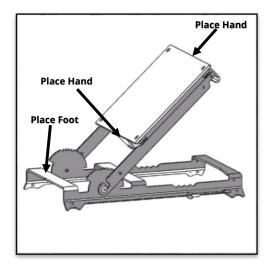


Figure 14

6) Hold target in proper locations to avoid serious injury

Moving parts. Keep hands and fingers away from shaded

areas where they may get caught resulting in serious injury

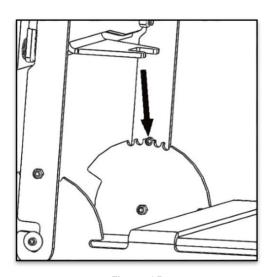


Figure 15

7) While applying pressure to target base with your foot, with a partner, lower the target frame so that the locking pin rests securely in the arc bracket



#### **Setting Up Target Computer**

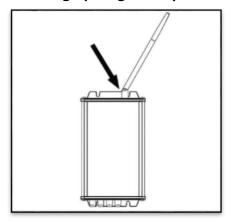


Figure 16

1) Screw radio antennas onto target computer and base station. Hand tighten without tools to prevent damaging antenna

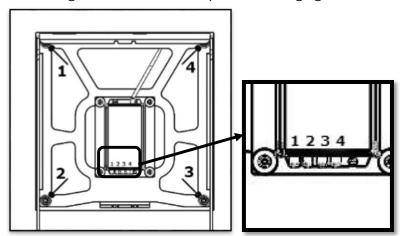


Figure 17 Figure 18

- 2) Velcro target computer on back of target frame, antenna up, as shown in Figure 17
- 3) While target computer is off, screw in the following cables

Top Left Cable	Connector 1
Bottom Left Cable	Connector 2
Bottom Right Cable	Connector 3
Top Right Cable	Connector 4



### **Storing Your Pacifica Target**

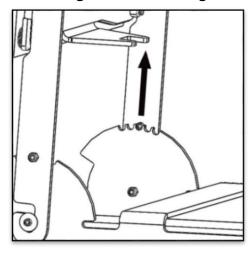


Figure 19

- 1) Apply downward pressure to a crossbar with your foot
- 2) With two people, lift the target frame to disengage the locking pin from the arc bracket

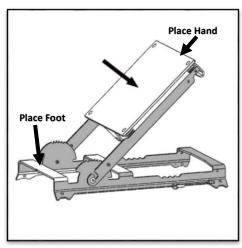


Figure 20

3) With two people, slowly lower target frame so that it lies flat on the base frame of the Pacifica



Target is heavy, do not drop and keep hands and fingers clear from shaded areas at all times



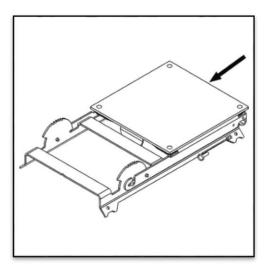


Figure 21

4) While holding the target base still with your foot, slide the AR500 plate down to engage the target frame into its storage position

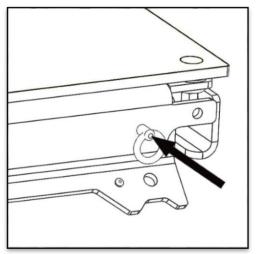


Figure 22

5) Push both securing pins completely into target to lock the Pacifica into its storage position



#### Replacing AR500 Steel Plate and/or Carriage Bolts

#### **Required Tools:**

- AR500 Plate
- 9/16" Wrench or Ratchet Set
- Assistant/Another Person



Plate is heavy and can cause injury if dropped. Do not change plate by yourself. Service target in a safe area away from live firing zones

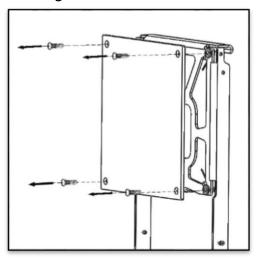
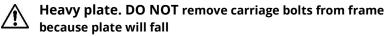


Figure 23

- 1) Power off target computer and base station
- 2) Lock Pacifica into a shooting position
- 3) While a partner is holding the AR500 plate, loosen carriage bolts by removing the locknuts and washers ONLY, from the back of the target frame



- 4) Pull old AR500 plate away from frame. Plate is heavy, use two people to remove plate
- 5) Insert carriage bolts into new AR500 plate and carefully lift onto the target frame



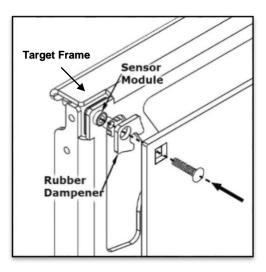


Figure 24

- 6) When attaching a new target plate to target frame, make sure all the components are lined up in the following order\*:
  - a. Carriage Bolt
  - b. AR500 Plate
  - c. Rubber Dampener
  - d. Target Frame
  - e. Sensor Module
  - f. Washer
  - g. Locknut
    - \*Refer to Figure 3 for sensor schematic
- 7) Torque locknuts to 20 ft/lbs. Over tightening carriage bolts will introduce additional stress and strain in the system



#### **Replacing Sensor Modules**

### **Required Tools:**

- Replacement Sensor Module
- 9/16" Wrench or Ratchet Set



#### Service target in a safe area away from live firing zones

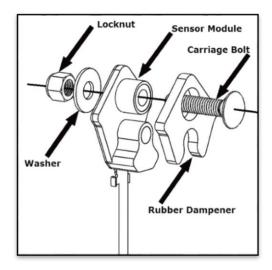


Figure 25

- 1) Lock Pacifica into an upright shooting position
- 2) Make sure target computer is turned off
- 3) Unscrew cable of sensor you are replacing from target computer



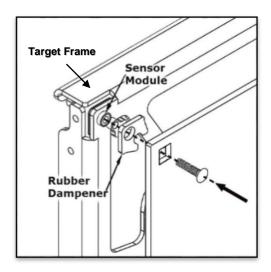


Figure 26

- 4) Remove locknut from carriage bolt of the sensor that you are replacing
- Loosen, but **do not remove** other locknuts. This is to allow you to adjust the plate while keeping it attached to target frame
- 6) Remove old sensor module and insert the new one
- 7) Secure new sensor module in place with bolt, nut and washer
- 8) When attaching new sensor module to target, make sure the components are lined up in the following order\*:
  - a. Carriage Bolt
  - b. AR500 Plate
  - c. Rubber Dampener
  - d. Target Frame
  - e. Sensor Module
  - f. Washer
  - g. Locknut\*Refer to Figure 25 for sensor schematic
- 9) Torque locknut to 20 ft/lbs. Over tightening carriage bolts will introduce additional stress and strain in the system
- 10) Screw cable to corresponding connector on target computer (refer to Figure 17)



#### **Electronics**

#### **Turning On/Off Electronics**

Turning on – toggle power switch so that green LED turns on Turning off – hold power switch until green power LED turns off

#### **Charging Electronics**

Plug the included USB charging cable into target computer or base station and plug into any USB compatible charger. Only use provided MTS charging cable

#### **LED Light Indicators**

**Base Station** 

No lights - off

Solid green - powered on

Blinking green - charging

Rapid blinking blue - no Bluetooth connection

Slow blinking blue - Bluetooth connected

#### **Target Computer**

No lights - off

Solid green - powered on

Blinking green - charging

No blue - not connected to base station

Blinking blue - paired with a base station but not

connected

Solid blue – paired and connected to a base station

### **Forced Unpairing of Electronics**

Unpairing should be done through the app, but can be done by holding down power button on both base station and target computer for 10-12 seconds

### Warnings

- Target computer and base station are not water resistant.
   Moisture will damage electronics if exposed
- 2) Do not open target computer or base station. Electronics are highly sensitive and may be damaged
- 3) Opening of electronics may result in electrical shock
- 4) Do not leave electronics outside when not in use



#### **Troubleshooting Target**

(See Electronics page for LED light indicators)

- 1) iPad isn't connecting to base station
  - i. Restart all electronics by turning on/off
  - ii. Check that both base station and iPad are charged and turned on
  - iii. Check that base station is within 10 feet of iPad
  - iv. Check that the base station is available for pairing and not paired with a different device
- 2) Base station isn't connecting to target computer
  - i. Restart all electronics by turning on/off
  - ii. Make sure you have line of sight to the target and are in operating range
  - iii. Check that both base station and target computer are charged and turned on
  - iv. Check target computer status LEDs for pairing state. Target computer might be paired to a different nearby base station. Disconnect other base station from target computer through app. Otherwise force unpair
- 3) You aren't receiving any feedback or random shot feedback
  - i. Shooting faster than 2 bullets per second may cause false readings due to excessive vibration
  - ii. Restart all electronics by turning on/off
  - iii. Check that you are connected to the correct base station and target computer
  - iv. Make sure your mobile device is Bluetooth paired with your base station
  - v. Check that sensors are connected to the proper target computer port
  - vi. Check for bolt damage due to direct bullet impacts
  - vii. Check that you are in an active firing session within the app



#### **Disposal Information**

#### **Electronics**

The lithium-ion battery in the target computer and base station should be removed by Mason Target Systems or a professional provider of battery disposal services and/or recycling services. Dispose of this product and/or its battery separately from household waste, and in accordance with local environmental laws and guidelines.