

Predator Cheetah Board 10.2 for Halo

Thank you for your purchase and support of Predator Electronics. Our goal is to provide you, the customer, with the best possible products and customer service available in the paintball industry to date.

The Predator Cheetah board is designed to be the best performing board that you can put in your Halo. The Cheetah with a more intelligent logic system and Automatic Unjam will out perform any competitor's board even ones with RF capability. In our testing a stock Halo with a Cheetah board compared to a Halo installed with an RF board, the Cheetah not only will go through a hopper of paint faster but will also be more reliable due to its Automatic Unjam. The Cheetah's Automatic Unjam is faster then any player could possibly recognize a jam and clear it with a Rip Drive. When a Cheetah is compared to a Halo with a magnetic clutch system, the clutch system will indeed ratchet and help prevent paint from breaking but in most cases the jam will still occur and the Player must use a manual method to unjam it. We do not recommend that the Cheetah be used with a magnetic clutch system because the clutch will only slow down the Cheetah in its superior Automatic Unjam process.

INSTALATION

Parts Included:

- (1) Predator Cheetah board
 - i. Compatible with Halo B, V35, Reloader B*, B2*, and Magna*

Getting Started:

- 1.) Remove any paintballs you might have loaded in your hopper as well as remove your hopper from your marker.
- 2.) Remove the Battery pack cover by unscrewing the battery door with a Phillips screw driver. Remove the battery block (Holds the Batteries) and place it aside.
- 3.) Open the hopper lid.
- 4.) With a Phillips screwdriver loosen and remove the screws in the right side shell. Make sure to pay attention to where each screw goes in the shell for re-assembly.
- 5.) With all the screws now removed slowly and carefully separate the two shell halves. Make sure to keep the back control plate of the hopper (has the power button) in the left side of the shell along with all other components. If the back plate is not held in place it is possible for the Power button on the Cheetah board to break off. In the case that the button does break off it is NOT covered under warranty but is repairable at the Predator Electronics Service Center.
- 6.) With all the components of the hopper resting in the left side of the shell slowly remove your old board and back plate together. Unplug the board from the wire harness on both sides being careful to pull from the plastic plug and not the wires and place the old board aside. Your old board is no longer required for operation.
- 7.) Plug your new Predator Cheetah board into your wire harness making sure the metal contacts of the plugs are visible and facing up. If you are looking at the back of the board the eye wires will plug into the right and the battery plug into the left.
- 8.) With the drive assembly of the hopper still removed from the hopper attach the battery pack and press the Cheetah's power button for 3 seconds and release. The hopper should spin and reverse repeatedly if the eyes are working properly. If the hopper does not repeatedly spin you will need to remove tape around the eyes and replace it with black electrical tape moderately tight.
- 9.) Seat your back plate into the upper and lower grooves in the left side shell and then gently fit the Cheetah board under the back plate. Continue by sliding both the back plate and the Cheetah board until the back plate is fully seated in its front groove and the Cheetah board is snug in the corner grooves.
- 10.) Place the right shell now over the left shell and begin to fit both sides together. Make sure that the lid pin lines up and fits into its hole on the right shell of the hopper. Make

sure that the two sides of the hopper fit snugly together and there are no gaps or pinched wires. Also make sure that the battery connector gets placed through the window that leads to the battery compartment.

- 11.) Insert the shell screws back into the right side of the shell and tighten them into the left shell.
- 12.) When all the screws are tightened reinstall the battery pack into the battery compartment and slide the battery door back onto the shell. Be careful not to pinch the battery wires during this point in the installation.
- 13.) Insert the final battery door screw and tighten.

POWERING ON

To turn on your cheetah hold the power button for 3 seconds and then release. The LED will first turn pink and then transition to blue and then yellow and the motor will begin to spin. If there are paintballs present the motor should stop once the eyes become blocked. If there are no paintballs in the loader the motor will continue to spin and reverse until paintballs are loaded and the eyes become blocked. (If un-calibrated)

After every new installation of batteries it is important that you power the loader on and then off again right after the installation. Doing this makes sure the eyes reset so there is no initial battery drain. If this is not done the user may notice if using laser eyes the eyes will remain on when the board is not powered on. This is not normal operation, and turning the loader on and off once will fix this.

MODES

Mode 1 Automatic Un-Jam (Blue):

This is the mode the hopper is put into when you first start it up. The LED will be red and the motor will run until the eye is blocked by paint at which point the LED will turn blue.

LED Key:

Yellow: No Paint in Feedneck, Motor Running

Blue: Paint in Feedneck, Motor Stopped

Mode 2 Manual Un-Jam (Purple):

This is the second mode on the Predator Cheetah board. To access this mode once the hopper has been started hold down the button for 4 seconds until the LED turns purple, then release the button. In this mode the hopper will not feed unless it detects movement in the feedneck from the paint. The hopper will also not automatically reverse the motor and run the Automatic Unjam sequence so if a jam occurs you must press the button to activate unjam.

LED Key:

Light Purple: No Movement in feedneck, Motor Stopped

Blinking Green: Movement in feedneck, Motor Running

Unjam Sequence (Automatic Rip):

At anytime while in either mode if you tap the power button for less than 4 seconds and release the board will go into an Unjam sequence which reverses the motor and clears any jams that may be occurring.

CALIBRATION

This must be done without paint in the HALO

Calibration is not required to run the Cheetah board but is recommended for BEST performance

- 1) Hold switch down until the light turns white then release. The light will then turn yellow.

- 2) Hopper assumes no paint is in it and begins spinning the motor with settings that will continuously reverse
- 3) Tap the button until the reversing stops and the hoppers drive cone runs continuously as it would when feeding paint. This could be several taps (10-50) depending on how the motor is working to turn the drive cone. This tells the Cheetah what an empty hopper looks like so it can anti-jam and run correctly.
- 4) Press and hold until the hopper turns off to end calibration.

USING THE CHEETAH WITH AFTERMARKET UPGRADES

Battery Packs:

We recommend Duracell, Energizer, Lithium, or any other name brand battery. Dollar store batteries DO NOT, in most cases provide enough power to run the Cheetah effectively. We have found that Code rechargeable battery packs do perform well with the Cheetah. Other aftermarket battery packs can be used but at the risk of the customer and damages caused by excessive voltage is not covered in the warranty.

Motors:

The Cheetah has been designed to work with a greater variety of motors. Not all motors have been tested, but feel free to experiment different motors. Using other motors will not void your board's warranty, but the cheetah may void your motors warranty.

Drive Cones:

We do not recommend that the Cheetah be used with a Magnetic Clutch/Drive cone system because the Clutch through its ratcheting will only slow down the Cheetah in its superior Automatic Unjam process. Other aftermarket drive cones test well including ones made of aluminum, delrin, etc.

Eyes:

We highly recommend use of Predator Halo eyes with the installation of the Cheetah. Predator laser eyes help you make sure that the eyes in your hopper are working correctly and are built with a stronger and thicker gauge wire to outlast pinches and crimps that can destroy stock eyes during installation and cleaning of your Halo. Halo eyes are available from our eBay store which you can reach from going to www.theangelguy.com.

Marker Boards:

The Cheetah was built to feed at high speeds consistently and reliably, complementing the performance achieved in all of our marker boards you will see the best performance when you pair your Cheetah board with a Predator board in your gun. When you have Predator in both your gun and loader you will dominate the field.

Warranty

The Cheetah board carries our Lifetime protection against manufacturer defects. If at anytime your Cheetah board fails due to an error on our side we will fix/replace your board for no charge. We only charge the cost ship your board back to you, nothing more. This warranty does not cover damage caused by the user due to error or negligence. Violation of this warranty agreement with installation of non approved aftermarket modification also disqualifies any warranty agreement. Warranty is valid for original owner, and only with valid proof of purchase and valid warranty registration.

Lifetime Code Upgrades

Original owners of Predator boards received after 7/01/2009 carry free lifetime upgrades to the newest version of code. The customer is only obligated to pay for the shipping cost to return the board to them. Only valid for original owner, must have valid warranty registration.

Contact

If you have further questions please feel free to contact us at any of the following addresses.

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