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Table of Contents

Introducti	on	1
Section 1:	General Description	1
	Dimensions	1
Section 2:	Features of the Machine	1
Section 3:	Galaxy 3 Basics	2
3.1	Assembly	2 2
3.2	Basic Terms	2
3.3	Standby Switch and Communication Ports	2 3 3
3.4	Motherboard Ports	3
3.5	IOB Basics	3
3.6	Power Cycling Board	4
3.7	Target Interface Board	5
3.8	Switching from a 15" Darthead to a 13" Darthead	6
3.9	Remote Play	7
Section 4:	Operation	6
4.1	Power Up	6
4.2	Game Play	6
4.3	Service Mode	8
Section 5:	Technical Description	12
	Monitor	12
5.2	Power Supply	12
5.3	Hardware	12
5.4	Operating Conditions at 120VAC	12
5.5	Darthead	12
5.6	Target Interface Board	12
5.7	Missed Dart Detector	12
Section 6:	Internet Communications	13
6.1	LeagueLeader Setup	13
6.2	Setting up a Wired Network	13
6.3	Setting up a Wireless Network	13
6.4	Setting up a Dialup Modem	14
Section 7:	Network Communication	14
7.1	Connecting to a Galaxy II/Galaxy II.5	14
7.2	Other Methods of Connecting Multiple Galaxy 3's	15
Section 8:	Maintenance	15

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Introduction

This manual contains assembly, operation and troubleshooting information for Arachnid's Galaxy 3 dart machine.

If you encounter a problem that is not covered in this manual, or if you have any questions, contact Arachnid at 800-435-8319 from 8 a.m. to 5 p.m. CST.

Section 1 General Description

The dart machine is a coin operated unit offering players a wide variety of game choices to challenge all skill levels.

1.1 Dimensions

Weight Boxed: 225 LBS

Weight Unboxed: 190 LBS

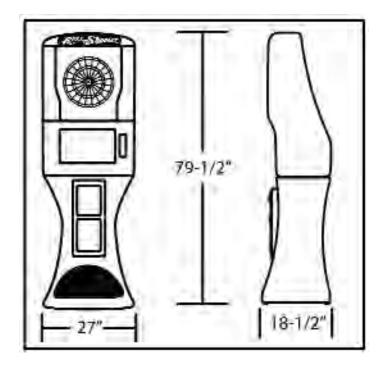
Boxed Dimensions: 44x29.5x39

Game Height: 79-1/2"

Game Width: 27"

Game Depth: 18-1/2"

For details on the electrical systems see Chapter **5 Technical Description.**



Section 2 Features of the Machine

This section lists the features and games available on the machine.

A. All the Familiar Features of the Galaxy 2

All the features you liked about the Galaxy II have been carried over to the Galaxy 3.

- •Happy Hour times and Pricing
- Automatic Player Change
- Casual Mode Player Stats
- •Adjustable Hours of Operation
- Missed Dart Detector
- Color Flat Screen Monitor

B. Brand New Player Feats and Graphics

New dartboard means new Graphics! All of the feats and game screens have had a major overhaul.

C. Adjustable Darthead

The game comes with the traditional 15" darthead and the European 13" darthead. Both of which are mounted on a rotating back board. Flip the latch and switch Dartheads. Easy!

D. LED Target Illumination and Marquee

Along with the new target comes new ways to light the dartboard. Strips of LED lights line the side of the cabinet giving the player a clear and well lit darthead to throw at. These same LED's can be configured to display patterns of color to attract players to the game.

E. Internet Communications

The Galaxy 3 can communicate with the Internet via Ethernet Cable or WiFi. No more phone lines!

F. League Play!

Thats right! Paperless Leagues! We are the leader of league play and intend to stay that way.

G. Remote Play!

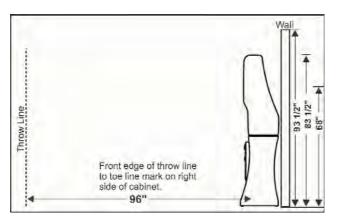
The Galaxy 3 is capable of playing across the internet. This means someone in your bar can play against someone in another country!

Section 3 Galaxy 3 Basics

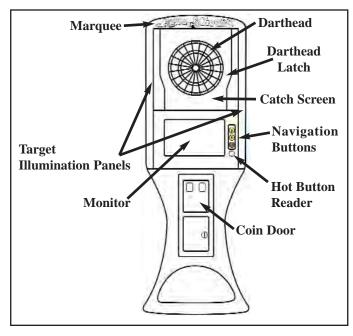
This section instructs you how to assemble your Galaxy 3 once it is unpacked. This section also explains some basic terms and explains the layout of several important areas of the Galaxy 3.

3.1 Assembly

- 1. Insert the four set screws provided into the top of the lower cabinet.
- 2. Place the upper cabinet assembly on the lower cabinet.
- 3. Unlock the bezel.
- 4. Flip down the monitor and monitor bezel.
- 5. Secure the upper cabinet to the lower cabinet using the four wing nuts provided.
- 6. Feed the wiring harness and connector through the hole in the upper cabinet to the lower cabinet and connect to the coin door harness.
- 7. Close and secure the monitor and monitor bezel.



IMPORTANT: The Galaxy 3 should not be operated until it is placed with its back against a wall in an area where bystanders will not get struck by a dart.



3.2 Basic Terms

Marquee - The Marquee is designed to catch the eye of the player and entice them into playing the game.

Darthead - The target at which players throw their darts at the Galaxy 3 has a 15" darthead and a 13" darthead.

Catch Screen - The part around the target that catches any missed darts.

Target Illumination Panels - These LED panels illuminate the target in clear white light. They are also used in attarct mode to catch the players eye.

Navigation Buttons - Use the Up, Down and Enter buttons to navigate the menus of the Galaxy 3.

Monitor - A 19" widescreen HD Monitor.

Coin Door - This is where the Coin Mechanisms and Dollar Bill Acceptors are installed.

Darthead Latch - Use this to unlock the darthead and flip to the other side.

3.3 Standby Switch and Reset Button

This section describes the functions of the Standby switch.



- 1. **Standby Switch** This switch controls Monitor and Target Illumination Panels. Toggle this switch to put the Galaxy 3 in standby mode. This will leave the main board on but everything else will be turned off.
- 2. **Reset Button** Restores power to the game if AC power is lost.

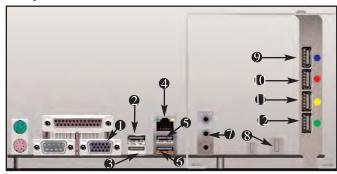


3.4 Power Inlet and Fuse

- 1. **Power Inlet** Is where the power plugs in to the machine.
- 2. Fuse Is a 3.5A Slo-Blo.

3.4 Mother Board Ports

This section describes the functions of the various ports on the back of the game as well as the function for the Stand By switch.



Caution: The Target Camera, Play Camera, Left LED, Right LED and the Marquee will not function if they are not plugged into the correct ports. (See Mother Board Color Code Diagram on page 4.)

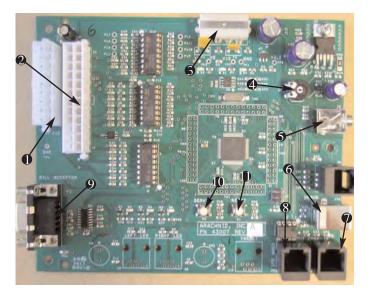
- 1. This is the VGA port that your monitor is plugged into.
- 2. The IOB is plugged into this port and controls various functions like the navigation buttons and coin switches.
- 3. Controls camera pointed towards the player.
- 4. Used to set up a wired network with a router. It is already plugged into its counterpart on the back of the machine.
- 5. This port is used to update machine information, leagues, and software.
- 6. Controls camera pointed towards the target.
- 8. Use this PCI slot to plug in a modem or a WiFi card.
- 7. Controls the speakers.
- 9. This port controls the Target Interface Board. All signals coming from the darthead flow into this port.
- 10.Controls the right Target Illumination Panel.
- 11.Controls the left Target Illumination Panel.
- 12.Controls the Marquee on the top of the machine.

3.5 IOB Basics

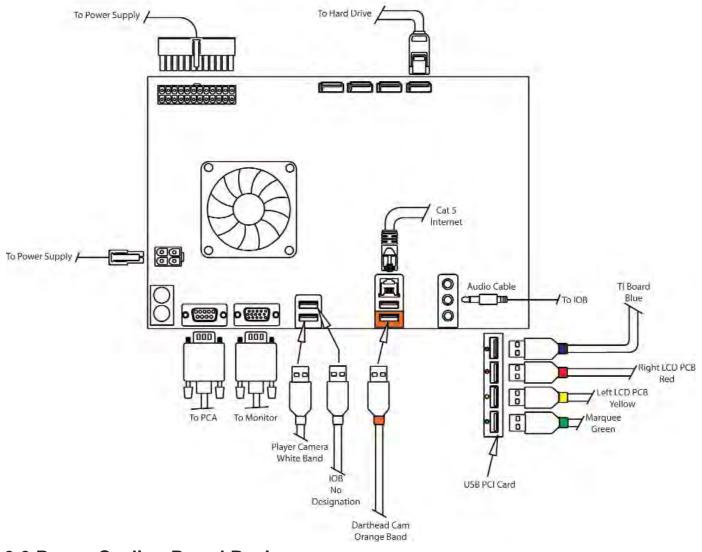
This section describes the basic layout of the IOB. The IOB or Input/Output board controlls the various external devices in the dartboard such as the Target Interface Board, the target LED's and the Marquee.

- 1. Plug for the Coin Door Wire Harness
- 2. Plug for the Main Wire Harness.

- 3. This is the power connector for the IOB.
- 4. This is the manual volume control.
- 5. This is the audio jack for the Galaxy 3.
- 6. This USB B-Type port is used to connect the IOB to the motherboard (see Section 3.4).
- 7. The Comm In port is used when setting up a Legacy Arachnet (see Sections 7.1 and 7.2).
- 8. The Comm Out port is used when setting up a Legacy Arachnet (see Sections 7.1 and 7.2).
- 9. This is for a future feature dealing with the bill accepter.
- 10. The Reset Button will reset the IOB.
- 11. The Service Button will bring you into the Service Mode (see section 4.3).



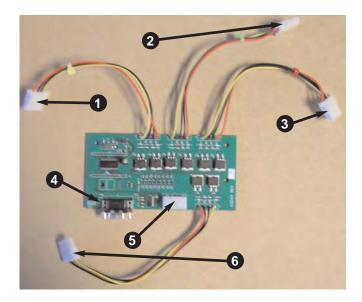
Mother Board Color Code Diagram



3.6 Power Cycling Board Basics

This board sits on top of your power supply and helps distribute power to the LED boards, Marquee and IOB.

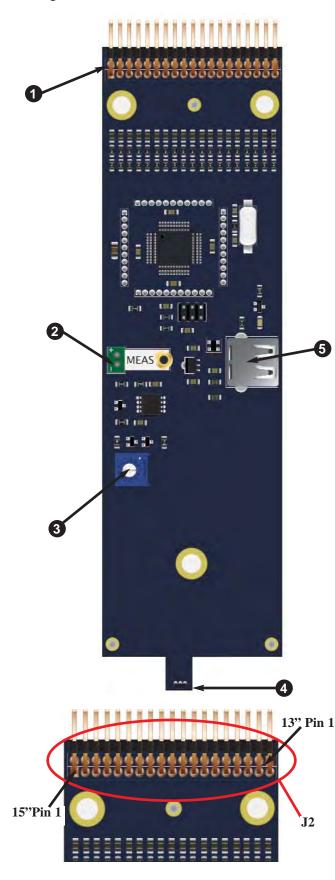
- 1. Supplies power to the Left LED board.
- 2. Supplies power to the Marquee board.
- 3. Supplies power to the Right LED board.
- 4. Connects to the parallel port on the mother board.
- 5. Supplies power from the power supply to the Power Cycling Board.
- 6. Supplies power to the IOB.



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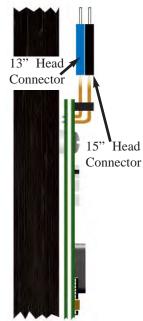
3.7 Target Interface Board Basics

The Target Interface Board (TI Board) controls the sensors for the darthead as well as the Missed Dart Detector (MDD). It also tells the IOB which darthead is currently being used.



 The connector, designated J2, is where the two Darthead Switch Matrix Membranes are plugged into the Target Interface Board.

The 13" Matrix Membrane is plugged into the bottom row while the 15" is plugged into the top row.



TI Board Side View



When connecting up the Switch Matrix Membranes to the TI Board, make sure the 13" darthead is plugged in to the bottom pins on the J2 connector and the 15" darthead is plugged into the top pins of the J2 connector.

- 2. The Missed Dart Detector senses if a dart mises the darthead.
- 3. Use to adjust the sensitivity of the Missed Dart Detector.



Turning it clockwise will increase the sensitivity and counter-clockwise will decrease the sensitivity. **This is a single revolution pot, there are no stops when turning it.**

- 4. The technical term is Hall Effect Sensor. Basically it senses magnetic fields. This little transducer senses when the door is flipped to the other darthead.
- 5. This USB port connects to the USB card on the motherboard.

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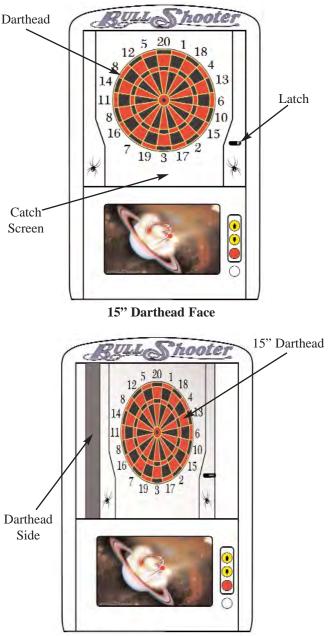
3.8 Switching from a 15" Darthead to a 13" Darthead and Back

The Galaxy 3 is unique in that it has both a 15" and 13" darthead on the same game. Why two dartheads? Why not? The idea was to give you one more choice in playing darts.

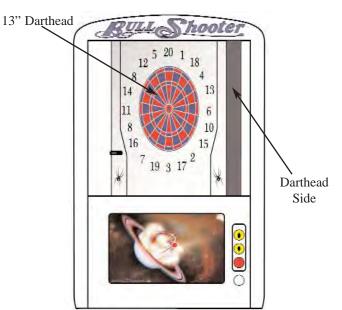
The 15" darthead is common in the United States but the 13" is more common in European nations. The 13" is a smaller head so it tends to make the game more challangeing.

Note: When flipping dartheads you **<u>DO NOT</u>** *need to turn off the game.*

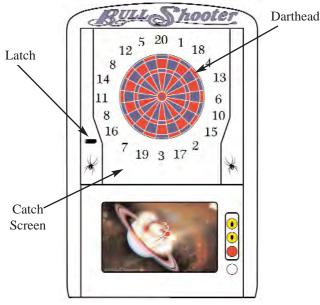
1. Push the Darthead Latch toward the darthead and push on the catch screen near the latch.



15" Darthead Pushed Forward



Pushing the 13" Darthead Forward



13" Darthead Face

By pushing the darthead back into place, the latch will automatically lock into place.

It is perfectly safe to switch dartheads while power is on. It is even possible to switch dartheads in the middle of a game. We did this as a way of adding an extra handicapping element to the game.

Example: Ken is a very bad dart player. His points per dart is around 10.0 or maybe less. Bill on the other hand is a fair shot but doesn't like the casual mode handicapping system. They decide to use the Galaxy 3's darthead as a handicapping system. Ken will throw on the 15" darthead while Bill will throw on the 13" darthead.

Note: This feature is only available in casual mode and not Remote Play or League Play.

3.9 Remote Play

This feature is an optional kit that can be purchased preinstalled or as a kit later.

Remote play allows players to play from their home bar against other players or teams over the internet. The two players can be on opposite sides of the Earth and still play against each other.

The Galaxy 3 has a camera in the upper left hand side of the top cabinet (as you are looking at it) and a camera hidden in the marquee.

The upper left hand camera is angled toward to the dart face so that the other player can see every dart hit.

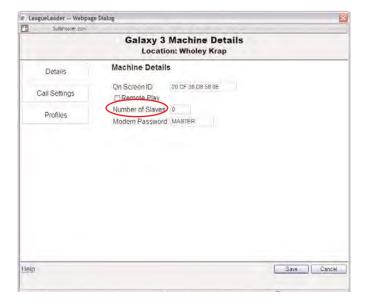
The camera in the marquee is pointed toward the player.

An operator needs to have an active LeagueLeader account for this to work and the Galaxy 3 needs to be configured properly with LeagueLeader.

A. Setting up Remote Play in LeagueLeader

As was stated above, the Remote Play option needs to be turned on in LeagueLeader. If you are unable to get Remote Play to work, try looking in LeagueLeader to make sure that the Galaxy 3 is properly configured and the Remote Play option is turned on.

- 1. Click on Master.
- 2. Under the Locations column, select Modify.
- 3. Choose the location that you want to have Remote Play at.
- 4. Click on the Galaxy 3.
 - •If there are no Galaxy 3's at this location, add them in. (See the LeagueLeader Manual).
 - •If this location has multiple Galaxy 3's you will need to activate the option on all of them.



- 5. Click on the check box next to **Remote Play**.
- 6. Click **OK** when finished.

B. Using Remote Play

Players can access Remote Play directly from the main menu. From here they can access or challenge other online players.

Note: Remember this option needs to be turned on in LeagueLeader. If not the player won't even be able to access this menu.

- 1. Select Remote Play.
- 2. Choose one (1) or two (2) players. These are the players that will be playing the online game in the same bar.
- The Galaxy 3 will then give you the option to change your name. Default names are Player 1 and Player 2.
 •Select Change Name.
 - •Follow the instructions on the screen and use the darthead to enter in a name.

Note: You can use your Player HotButton to enter your name as well.

- 4. Press **Continue**. This will take the player to the **Choose A Game** menu. From here you can see:
 - Games in Progress- This shows the number of Remote Games that are currently in progress. You can not join these games.
 - Waiting for Opponent-This shows you the number of players that have selected that game and are waiting for people to play aginst.
 - Waiting to Choose a Game-This is the number of people in the Choose A Game screen (the screen the player is currently in.)
- 5. Choose a game to play. There will be a list of Locations that have players waiting to play.
- 7. Select a Location and opponent. This will send a "Challange" to that location.
 - While in this screen, you may be challenged yourself. You may choose to ignore the challenge or accept it and play against that bar instead.
- 8. Pay the game cost and play the game.

7

Section 4 Operation

4.1 Power Up

Once the machine is assembled and set in place, connect the power cord to a wall outlet. **Note: The outlet must have an earth ground and be wired for the correct polarity.** The monitor and target lights are controlled by the switch on the back of the machine.

4.2 Game Play

Upon power-up, the machine is ready for play. Players select their game and options using the on screen menus.

A. 01 Games

The 01 family of games are count-down games for 1 to 8 players. Each player starts with 301, 501 or 701 points, depending on the game chosen. The first player to reach exactly zero, or the lowest score when the round limit is reached is declared the winner.

The 01 games are available with the following opening round options:

- **Open In:** A hit on any numbered segment will begin the count-down process.
- **Double In:** The player must hit any double or the bullseye to begin the count-down process.
- Master In: The player must hit any double, triple or the bullseye to begin the count-down process.

The 01 games are available with the following final round options:

- **Open Out:** Any segment that will bring the players score to exactly zero can be used to "take the game out."
- **Double Out:** Any double that will bring the player to exactly zero must be used to "take the game out."
- Master Out: Any double, triple or the bullseye that will bring the players score to exactly zero must be used to "take the game out."

Note: Under the 501 menu there is 501 Open In/Open Out Quickie and 501 Open In/Master Out Quickie. These games play the same as a normal 501 game with the same round options. The only difference is they have a round limit of 10.

B. Cricket Games

Cricket Games are all based off the traditional steel tip game of the same name. In most cases, the games in this family use numbers 15 through 20 and the bullseye. Read the descriptions to learn how each game is played.

Cricket/200

1 to 8 players

Cricket is a game of skill and strategy played with the numbers 15 through 20 and the bullseye. A player must "mark" each number three times before that number is "closed." A single counts one mark, a double two, and a triple three. Points are scored every time a player hits a number he has closed. Once all players have a number closed, no one can score points on that number. The first player to close all the numbers and the bullseye and have equal to or more points than all his opponents is declared the winner.

Maximum points scored by players may be governed by a preset spread limit in some games. Spread limits control the point spread between players in an effort to keep the better player from running up the score and over-extending the game. For example: If player "A" has 89 points, then player "B" cannot score more than 289 points under a 200 point spread limit. When a player reaches the spread limit, he is forced to try and close another number, as no further scoring is possible until the other player(s) add points to their score. Spread limits can be toggled off or on in the test/setup mode.

Hammer Cricket

2 to 4 players

Hammer Cricket is a count-up game using a different Cricket number each round. There are two "Wild" rounds that display a random number between 12-20 or the Bull. Each round, the first dart scored is worth the segment hit, the second is worth two times the segment scored, and the third dart is worth three times the segment scored. If you miss all three darts the hammer falls and reduces your score by a triple of the segment for that round! During the final round the second and third darts are worth 3 and 5 times the number scored! In the event of a tie game there will be a final tie breaker round. If scores are still tied, the highest MPR wins the game. Hammer Cricket can be configured Masters (Triples only), or Open (Singles, Doubles or Triples).

Team Hammer

4 players

Team Hammer plays like Hammer Cricket with one major difference, four players compete as two separate teams. Each player tries to get as many points as possible. Points from both team members are added together into one score. When a player misses all three darts, his score and that of his team is reduced by a triple of the segment for that round! Team Hammer can be configured as Masters (Triples only), or Open (Singles, Doubles or Triples).

Cut-Throat Cricket

2 to 8 players G

The object is to close all the numbers and have the lowest score. Once a player closes a number, additional marks will score points for opponents who have not closed that number. There is no point spread limit for this game.

Team Cricket

4 players

Team Cricket has two different sets of rules that can be used to play. To turn on the New Team Cricket rules, you will need to configure that option in the Setup Mode (see page 6 of this manual).

Both sets of rules are played with four players playing as two teams. Each player marks individually; however, team partners score together as a team. Both partners must have a number closed before either can score on that number.

In the **Traditional Rules**, to win, both teammates must have all the numbers and the bullseye closed and the team must have equal to or more points than their opponents.

In the **New Rules,** to win, a team needs only one player to have all the numbers and the bullseye closed. They still must have equal to or more points than their opponents.

A 400 point spread limit is the default for both sets of rules.

Wild Card Cricket

1 to 8 Players

Instead of the traditional numbers, this game will start with a random selection of six numbers from 7 through 20 (the bullseye will always be present). All numbers are "Wild" and will change at the end of each player's turn if not marked. Once a number is marked, it will remain the same throughout the rest of the game. A 200 point spread limit is the default.

Cricket Quickie

1 to 8 players

This game plays exactly like Cricket except this game only has a round limit of 10. Because of its short round limit it is also less expensive than regular Cricket. The final difference is that this game has no spread limit.

C. Other Games

Here are some other fun games to play. Each one has a different set of rules so please read their individual entries.

Count Up

1 to 8 Players

Count Up is a good game to begin learning darts, allowing the player to develop throwing technique without being distracted by strategy. Each player begins with zero points and tries to score the most points to win the game. All segments will score points and a winner is declared at the end of 8 rounds.

Gotcha! Open/Open

2 to 4 players

The object of the game is to be the first player to go from zero to exactly 301 points. Players may try to match their opponent(s) score at which time a bomb is detonated destroying the opponents score and setting it back to zero. If someone exceeds 301, the amount exceeded will be deducted from your original score for that turn. No matching bombs will be detonated.

There is also a "Master Out" option, requiring a double, triple, or bull to reach exactly 301 points and win the game.

Gotcha! Open/Master

2 to 4 players

Gotcha! Open/Master playes exactly as above except that it requires a double, triple, or bull to reach exactly 301 points and win the game.

Bermuda Triangle

1 to 8 players

Players shoot at a new number each round. The numbers used are 12, 13, 14, Double, 15, 16, 17, Triple, 18, 19, 20, Bull, and Double Bull. Hitting any segment of the current number accumulates points for the player. For example: The first number is 12. A single will score 12 points, a double 24, and a triple 36. When "Double" is the current target, any double will score. The same applies to "Triple" when it is the current target. When a player misses the current number with all three darts, their current total score is cut in half! The highest score at the end of the game wins.

Tic Tac Darts

2 Players

This is a variation of traditional Tic Tac Toe. The same nine square grid is used. The machine places the bullseye in the center square with randomly selected numbers in the other eight squares. Player "X" or player "O" claim a square by marking the number four times. Singles score 1 mark, doubles 2, and triples 3. The bullseye scores 1 mark; double bull (if used) will score 1 for the outer and 2 for the inner. The first player to get three squares in a row is declared the winner. In the event of a "Cats" game, where it is not possible to have three squares in a row, the game ends with player with the most points being declared the winner.

4.3 Service Mode

Service Mode is where you configure all the options that the Galaxy 3 has to offer.

To enter the Service Mode, press the Service Button on the IOB Card.

A. Machine Setup Menu.

Language Setup: Used to set the display language on the machine.

Time Settings Menu: Used to access current date and time, Happy Hour and Hours of Operation time settings.

Set Time/Date: Used to set the machine's clock and internal calendar.

Set Happy Hour Times: Allows the operator to offer reduced game pricing for a set period each day. To activate this feature, the time period must be set on this screen and the reduced credits (Happy Hour) set in the Price Settings screen.

Set Hours of Operation Times: Setting the location's Hours of Operation will allow the machine to enter **Sleep Mode** outside normal business hours. In Sleep Mode, the target lights will dim and the monitor screen will blank out. While in Sleep Mode, inserting a coin or pressing any button will return the machine to Normal Mode.

Coin Slot Assignment: Used to set coins per credit and credits per coin. Adjust the number of coins that have to be inserted to register the number of credits shown or adjust the number of credits that will register for the number of coins shown. Default: 1 coin = 1 credit.

View/Edit Machine Name: Used to input a "human friendly" name for each machine.

Free Play: Used to set free play on or off.

Coinbox Button: Allows you to switch the Coinbox Service button from Service Menu (full access) or Collector Mode (Collection screens only).

More Machine Setup: Contains the following setup options.

Reset Menu:

Reset All: A one-step method of activating all the resets listed on this menu.

Reset to Factory Defaults: Resets all options to the original factory setting.

Reset Popularity Counters: Resets all the counters back to zero.

Reset League Stats: Clears all stored match statistics. Warning: Once they have been cleared they cannot be retrieved. Make sure all stats have been collected from the machine prior to using this function!

Clear Machine Credits: Clears any accumulated credits from the machine.

Clear Top Ten Score Lists: This menu lets you reset the top ten score screens.

Clear Bermuda Top Ten List: Clears information stored in this list.

Reset Team Hammer Cricket Top Ten List: Clears information stored in this list.

Reset Hammer Cricket Top Ten List: Clears information stored in this list.

Reset Count Up Top Ten List: Clears information stored in this list.

League Attract Menu:

List League Files: Lists the league and graphic files currently on the machine and includes memory size information.

View Attract Files: Displays all operator ads on the board. This is good for troubleshooting.

Delete League/Attract Files: Allows league and graphic files to be selectively deleted.

Delete All League/Attract Files: Used to delete ALL the league and graphic files from the machine.

One Liners: This Option turns on and off the One Liners (little jokes and quotes that scroll through the Attract Mode)

View Stats: Allows you view new data that has been put on the Galaxy 3.

View Recollect Stats: Allows you view old data that is on the Galaxy 3.

Adjust Volume: Allows the operator to adjust the speaker volume.

HotButton Menu:

Create HotButton: Allows the Operator to create Player, Operator and Collector HotButtons.

Erase HotButton: Erases the data stored on a HotButton.

View HotButton Configuration: Used to view the settings that were setup in Dartman, like Minimum Credits allowed and HotButton promotions.

Delete HotButton Configuration: Deletes the HotButton configuration off of the board.

Write Settings to HotButton: Writes the machine configuration to an Operator HotButton.

Read Settings from a HotButton: Loads the settings to the Galaxy 3 from an Operator HotButton.

B. Game Setup Menu

Price Settings: Used to set the number of credits required by each player in normal game mode and happy hour mode, for each individual game.

Bull Setting: Used to set the single or double bull for each individual game.

Round Limit Setting: Used to set round limits for each individual game.

Spread Limit Setting: Used to set Spread Limits on or off for Cricket games.

Feat Settings: This option lets you turn on/off feats for everything or specific modes.

Global Feats: Turns on/off feats for everything.

League Mode Feats: Turns on/off feats for League Mode.

Remote Play Feats: Turns on/off feats for Remote Play.

Stat Ticker: The **Stat Ticker** keeps track of every players average for the game they are playing.

X01 Stat: The **Stat Ticker** for X01 games can be configured to display PPD (Points Per Dart) or PPR (Points Per Round).

More Game Setup: Used to access the following items:

Auto Player Change: Used to set auto player change on or off.

Player Change Delay: Used to set the time, in seconds, allowed to remove darts between player turns.

Cheater Alarm: Used to set free dart sound on or off. When set to ON, the machine will make an alarm sound when players throw darts without inserting any credits. Used to discourage free play. **Team Fees:** Used to have the machine automatically collect league dues from each team prior to a match. Can be turned "ON" or "OFF" The amount to collect is determined and sent by Arachnid's League Management Software.

Casual Freeze Rule: Turns off and on the freeze rule for casual play.

Freeze Rule Bust: When this option is set to on, it will allow a player breaking the freeze rule to go bust instead of losing the game.

Backup Dart: Turns off and on the unthrow option in casual mode.

Casual Mode Handicap (**X01**): Turns off and on handicapping for casual mode. The percentage is used to determine the minimum starting score for the lowest player. (i.e., 40% of 301 is 121 or 60% of 301 is 181).

Casual Mode Handicap (**Cricket**): Turns off and on handicapping for casual mode. You can choose how many spot marks to give the less skilled player.

Show 'Up Next' Stats: Toggles on and off the Next Up Stats feature. This feature shows the MPR or PPD of the person shooting next during a player change.

League Round Limits: Turns off and on the round limits for leagues. This uses the round limits set up for casual play.

League Freeze Display: Turns off and on the Freeze Rule display in leagues.

League Pay Ahead: Turns on and off the Game Fees Screen. With this option on, your players pay for the night's games up front.

League Cancel Button: Turns on and off the Exit League Play feature. When turned on, you have the option to exit league play before starting the next game.

New Team Cricket Rules: Turns on and off the New rules for Team Cricket. If the New Team Cricket rules is switched on, both casual and league play will use the new rules that were detailed earlier in this manual.

Enable Top Ten Lists: Turns on or off the Top Ten Lists. The Top Ten Lists display the top ten players that have played that game. The current Top Ten Games are:

Bermuda Team Hammer Cricket Hammer Cricket Count Up

C. Communications

Connections Setup: This section is where we choose the type of device we are using to communicate with the league system.

Arachnet2 Setup: Arachnet2 is what we are calling a Galaxy 3 network.

View Galaxy 3 Network: Shows you all the machines in your network.

Reconfigure Galaxy 3 Network: Looks for other Galaxy 3 boards to be in your network.

Ethernet Setup: This setup is for using an ethernet cable and plugging directly into a router or the high-speed internet modem.

Enabled: Toggle this on or off to enable or disable ethernet communications.

Use Internet: Toggled to YES, you are informing the Galaxy 3 that you want to use the etherenet to talk to LeagueLeader.

IP Setting: This option allows you to choose whether to manually enter in Internet information or let it automatically find it for you.

IP Address: This is the address that your Galaxy 3 uses to access the Internet. If you chose **Manual** under **Auto/Manual**, you will need to set an IP Address manually.

Netmask: Provided by your Internet provider.

Gateway: Provided by your Internet provider.

DNS Server 1: Provided by your Internet provider.

DNS Server 2: Provided by your Internet provider.

WIFI Setup: If you have installed a WIFI Modem, this menu allows you to change the settings of your wireless network.

Access Point: This is the name of the wireless access point connected to your Galaxy 3 machine.

Security Type: This is the security type for your wireless access point. You can choose either WEP, WPA TKIP, WPA2 AES or None. Note: The Galaxy 3 will only work with the listed Security types. If the router isn't set to one of the security types listed, it will not work.

Security Key: This is the "password" used when connecting to a secure wireless network. Both access point and Galaxy 3 must have the same key in order to work.

Use Internet: Toggled to YES, you are informing the Galaxy 3 that you want to use the ethernet to talk to LeagueLeader.

IP Setting: This option allows you to choose whether to manually enter in Internet information or let it automatically find it for you.

IP Address: This is the address that your Galaxy 3 uses to access the Internet. If you chose **Manual** under **Auto/Manual**, you will need to set an IP Address manually.

Netmask: Provided by your Internet provider.

Gateway: Provided by your Internet provider.

DNS Server 1: Provided by your Internet provider.

DNS Server 2: Provided by your Internet provider.

Modem Setup: If you have installed an Analog Modem, this menu allows you to change the settings of your wireless network.

ISP Dumb Mode: Some Internet Service Providers might require this to be turned on. It's just a different mode of communication.

LeagueLeader Setup: This menu provides information concerning connecting with LeagueLeader.

Connection Method: This is the type of communication you use to communicate with LeagueLeader.

Ethernet: Used to communicate to LeagueLeader using a digital modem.

Modem (Internet): This method is used with analog modems calling a dial up network.

Modem (LeagueComm): This method means that your computer communicates directly with the Galaxy 3 by analog modem.

Ethernet Device Settings: This option will only display if Ethernet is chosen. It will open **Ethernet Setup**.

Modem Settings: This option will only display if **Modem (Internet)** or **Modem (LeagueComm)** is chosen. It will open **Modem Setup**.

ISP Phone Number: This the dial up number that the Galaxy 3 will use to call the internet. This option will only appear if **Modem (Internet)** is selected.

ISP Username: Input your LeagueLeader ISP user name here. This option will only appear if **Modem** (**Internet**) is selected.

ISP Password: Input your LeagueLeader ISP Password here. This option will only appear if **Modem (Internet)** is selected.

LeagueLeader Account Settings: This section is where you enter in your LeagueLeader FTP Username and Password.

View Outgoing Call Window: Used to set the number of rings within the call window and outside the call window, after which the modem will pick up an incoming call. The call window is defined by the beginning time and ending time set on this screen. This feature is contingent on the machine having the correct time set.

View Last Update: From this menu, you can see the last Galaxy 3's last communication.

View Call Log: This will display a report of what happened during the last communication to LeagueLeader.

Clear Last Update Time: Clears the call log.

Galaxy 2 Network: Use this if you are connecting multiple Galaxy II machines to this Galaxy 3.

Reconfigure Legacy Network: Is used to examine the entire network of machines and configure network machine node numbers. Shows the status of each node on the network. This step is required to be done from the modem machine.

View Network Configuration: Shows the last known status of all machines on the network.

Adjust Network Speed: Used to set the network transmission speed. If Galaxy or Black Widow machines are networked with Galaxy 3 machines, the network speed must be set to 9600. If only Galaxy 3 and Galaxy II machines are networked, any speed can be used, but <u>they all must be set to the same speed</u>.

Network Monitor: Displays all network data sent by the machine in yellow and all network data received in white.

Network Send Test: Tests the ability of the machine to send data across the network. (Displays the alphabet in yellow as the characters are being sent.) Used in conjunction with another machine running the Network Receive Test (see below) to verify network communications. Red characters indicate a problem.

Network Receive Test: Tests the ability of a machine to receive data across the network. (See Network Send Test above.) When another machine is set up to send the receiving machine will display the alphabet in white letters as they are being received. Red characters indicate a problem.

Repropagate: Sends League Files and Machine settings to the Galaxy II's on the network.

Network Help: Displays frequently used information on network setup for the technician.

Perform Update: Used to force the machine to call out immediately.

D. Reports

Game Popularity Counter: Displays a history of machine usage. Shows all games on the machine, the number of times each game was played and the number of credits collected toward each game.

Coin Slot Report: Displays the number of credits taken in by each of the coin slots - individually.

Credits Collection Report: Used by the collector to display credits taken in (since last reset) for game play and league dues.

E. Diagnostics

Abort In Progress League: Stops any league that is currently running.

Target Test: Starting with the Double 20, this will ask you to tap various segments. The segment you hit will make a positive sound if it is the correct segment and a negative sound if it is wrong. This will help you find stuck segments as well as making sure all the segments score properly.

LED Test: Technicians can use this to test the LED's on the side panels. It wll scroll through the various colors.

Restart Software: Used to exit the Software Update Menu and reboot the Galaxy 3 software.

Section 5 Technical Description

Below are technical descriptions of the many parts within the Galaxy 3.

5.1 Monitor

19" Wide LCD Monitor

5.2 Power Supply

ATX Switchable Power Supply: 12 VDC, Switchable between 120 and 230 VAC

5.3 Hardware

PC Board: SATA 3GB/s DDR2 1066 **RAM:** 1024MB DDR2 **Hard Drive:** SATA 2.5" 40GB Make it what it should be. Verified and updated if needed.

5.4 Operating Conditions

The Galaxy 3 can be operated at 115~VAC or 220-240~VAC. There is a switch on the power supply to change between 115 Volts and 220-240 Volts.

Power consumption is 175 Watts at 50/60Hz.

<u>Warning: Make sure the voltage on the power sup-</u> ply is set correctly for the area you are in.

5.5 Darthead

The Galaxy 3 is unique in that it has both a 15" and 13" darthead on the same game. The targets use the same backboard but have separate matrixes and matrix cushions.

A latch on the side of the catch ring allows you to flip the darthead. Pull the lever toward the target and push.

The darthead assembly for both sides consists of (from front to back): the spider and segments, a matrix cushion, and the switch matrix. This assembly is resting on two screws at the bottom and is secured to the door (backboard) by means of five spider retaining latches.

5.6. Target Interface Board

The switch matrixes are connected to the Target Interface Board via the 38 pins of J1. For troubleshooting purposes, it is important to know which pins on J1 will give a particular score. Check **Section 8 Maintenance** for more information.

5.7. Missed Dart Detector

Built directly onto the Target Interface Board, the Missed Dart Detector detects any "missed" dart. In more technical terms, the missed dart detector senses any dart that hits the catch screen that surrounds the darthead.

If a missed dart is detected, the machine will record a dart thrown and no score will be given.

See Section 3.7 Target Interface Board Basics for instructions on adjusting the missed dart sensitivity.

Section 6 Internet Communications

There are three ways to communicate with the internet from the Galaxy 3. For highspeed internet, you will need a working router, Ethernet and/or WiFi Communications.

6.1 LeagueLeader Setup

The only reason to set up the Galaxy 3 to use the internet is to send leagues to it. The only way to send leagues to it is through LeagueLeader.

Note: You can set up the **Connections Method** from this menu or by going into their respective menus.

- 1. Go into the setup mode by pressing the Service Button on the IOB.
- 2. Select Communications.
- 3. Select LeagueLeader Setup.
- 4. Choose the **Communications Method.** You have three choices: Ethernet, WiFi, or Modem (Internet). Each **Communications Method** will have different settings. You can set them up now by going into their respective settings menu right below Communications Method.
- 5. Enter in your **LeagueLeader Account Settings**. Here you will enter in your FTP Username and Password.
- 6. Once all settings are entered, including the Device Settings, click on **Perform Update** to test the connection.

6.2 Setting up a Wired Network (Ethernet)

Setting up a wired network, or ethernet, is fairly straight forward. The Galaxy 3's mainboard has a built in network card. You will need to have a properly set up router first.



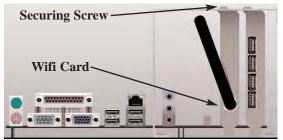
- 1. Run an Ethernet cable from the router to the Galaxy 3.
- 2. Slide the Ethernet cable between the upper and lower cabines in the back of the Galaxy 3.
- 3. Plug the Ethernet cable into the motherboard.
- 4. Go into the setup mode by pressing the Service Button on the IOB.
- 5. Select Communications.
- 6. Select Connections Setup. Choose Ethernet.
- 7. Make sure **Enabled** is toggled "YES".
- 8. Make sure Internet is toggled "YES".

- 9. For ease of use, make sure **IP Setting** is set to "Auto (DHCP)". This will configure all the other Internet settings for you.
- 10. Once setup, Return to Previous Menu.
- 11.Select LeagueLeader Setup.
- 12. Connection Method should be already selected for you, select LeagueLeader Account Settings.
- 13.Input your LeagueLeader FTP Settings.
- 14.Once all finished, select **Return to Previous Menu**. 15.Select **Perform Update**.

6.3 Setting up a Wireless Network

Setting up a wireless network is different than a wired network. You will need to have a properly set up router first.

- 1. Unplug the Galaxy 3.
- 2. Unlock and open the bezel and monitor.
- Plug in the wireless card on to the motherboard. See A1 (page 19) for our list of recommended Wireless Cards.
- 4. Secure the PCI Card to the bracket with a screw.



- 5. Plug in the Galaxy 3.
- 6. Go into the setup mode by pressing the Service Button on the IOB.
- 7. Select Communications.
- 8. Select Connection Setup. Choose WiFi Setup.
- 9. Make sure Enabled is toggled "YES".
- 10. Make sure Internet is toggled "YES".
- 11.Click on Access Point. This will scan the local area for any wireless access points.
- 12.Choose the access point you intend to use. Depending on the area, more than one access point may be displayed. The signal strength and the security type will be listed by each access point.

13. The **Security Type** should be automatically assigned.

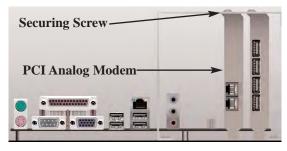
- 14.Enter in the Security Key or Pass Phrase.
 - •WEP uses an **Encryption Key**. The key is ten (10) characters long and made out of the numbers 0-9 and the letters a-h.
 - •WPA and WPA2 can use an **Encryption Key** like WEP, but they also have access to a **Passphrase**. This Passphrase can be any combination of letters (upper and lowercase) and numbers.
- 15.Select IP Setting.
 - •Auto (DHCP) will automatically find all the internet settings it needs.
 - •Manual will require you to get the I.P. Address, Net Mask and other internet settings yourself.

- 16. Select Return to Previous Menu once finished.
- 17. Select Return to Previous Menu again.
- 18. Select LeagueLeader Settings.
- 19. Connection Method should be already selected for you, select LeagueLeader Account Settings.
- 20. Input your LeagueLeader FTP Settings.
- 21. Once all finished, select Return to Previous Menu.
- 22. Select Perform Update.

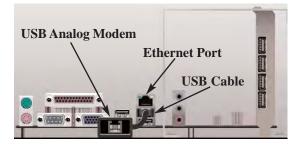
6.4 Setting up a Dialup Modem

The Galaxy 3's can be set up to call out using a dialup modem. The Galaxy 3 will use a normal analog phone line to send and retrieve data from LeagueLeader.

- 1. Unplug the Galaxy 3.
- 2. Unlock and open the bezel and monitor.
- 3. Plug in the modem on to the motherboard. See A1 (page 19) for our list of recommended Modems.
 - a. If it's a PCI modem secure the PCI Card to the bracket with a screw.
 - b. If its a USB modem, plug the USB cable into the open USB port underneath the ethernet port.



Galaxy 3 Ground Plane With a PCI Analog Modem



Galaxy 3 Ground Plane With a USB Analog Modem

- 4. Open the Service Menu.
- 5. Select Communications.
- 6. Select LeagueLeader Setup.
- 7. Select Modem (Internet) for the Connection Method.
- 8. Select LeagueLeader Account Settings. In this menu, enter in your FTP Username and Password.
- 9. Enter in your ISP Phone Number. This can be gotten from www.dialupusa.net.
- 10. Enter in your ISP Username and Password. These you were given after you signed up for LeagueLeader.
- 11. Click Return to Previous Menu.
- 12. Click Perform Update to test the connection. This will force a call to LeagueLeader and download any files ready to be downloaded.

Section 7 Network Communications

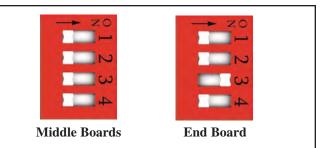
A network can be set up between multiple boards in a location so that you only need to use one board to communicate with LeagueLeader. There are several ways this can be done.

7.1 Connecting to a Galaxy II

The Galaxy 3 can be connected to a Galaxy II/Galaxy II.5 network using a crossover phone line. Galaxy 3's should always be the master of the network.

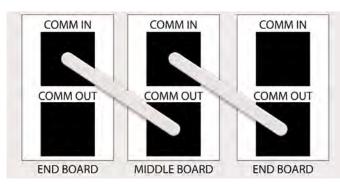


- 1. The Galaxy 3 has to be the master.
- 2. Set the dip switches on the end dart machine so that 3 is on.
- 3. Set all of the dip switches on any middle boards to OFF.



- 4. Use a regular flat phone line as the network cable for boards less that 15' away.
 - ➡ For dart machines that are more than 15' away use round phone line with modular jacks. Use a flat phone line to go from the modular jacks to the dart machines.
- The "network line" must alternate between COMM IN to COMM OUT between dart machines. See Section 3.5.

Note: If this is not done your network will not function properly.



6. Make sure the network speeds are the same.

The network speed on the Galaxy 3 can be found under Communications>Legacy Arachnet Setup>Adjust Network Speed.

- The network speed on the Galaxy II/Galaxy II.5 can be found under Communications>Network> Adjust Network Speed.
- 7. Configure the network. This is located in the Setup Menu under Communications>Legacy Arachnet Setup>Reconfigure Legacy Network.

 \Rightarrow Configure the network <u>only</u> from the Galaxy 3.

- All Galaxy II slaves will display a message stating "Detecting Galaxy II nodes. Press any button to configure." Once you see this message press any button to configure that node. After all slaves have been configured, press **Done** on the Galaxy 3.
- 8. Make sure the network is configured properly by going to the Setup Menu and selecting View Network Configuration under Communications>Legacy Arachnet Setup
 - ⇒ A yellow light is displayed for the board you are currently on. A green light is used for any networked boards.
- 9. Perform Network Send and Receive Tests throughout the network if necessary. These tests are located in the under Communications>Legacy Arachnet Setup. The Send Test should display a yellow alphabet and the Receive Test should display a white alphabet.

Note: If any red letters appear then there is a problem with the network. If problems occur, retrace your steps.

It is possible to have multiple Galaxy 3's controlling multiple Galaxy II networks in one location. Add the Galaxy II's into LeagueLeader both as masters with the Galaxy II's as slaves. The Galaxy 3's should be setup as described in Section 6.

7.2 Connecting Multiple Galaxy 3's Together

While it is true you can connect multiple Galaxy 3's to a "Master" machine (like in a Galaxy 3 network), it will be much easier to just make each machine it's own master.

This means you will need to input multiple masters into LeagueLeader along with every boards screen ID. It also makes communication and collecting boards much faster.

Section 8 Maintenance

This section is basic information on maintenance for your Galaxy 3 and how to perform some simple maintenance tasks at the machine.

8.1 Cleaning the Darthead

Inevitably, during the course of several months of play, a tip from a dart will get broken and lodged into the dart board. Owners of previous Arachnid Dartboards know how to fix and maintain their dartboards.

This section will explain how to remove broken dart tips, clean the matrix and segments and how to test the Target Interface Board (TI).

A. Removing Broken Tips

Each segment of either darthead on the Galaxy 3 has a back to it. So when a player gets a broken tip or a tech goes to service a board, all they have to do is push the tip through the hole. Because the segment is capped, the broken tip can't fall anywhere and interfere with the electronics. To do this, you will need a sturdy tool that will fit through the segment hole. A dart tip won't work.

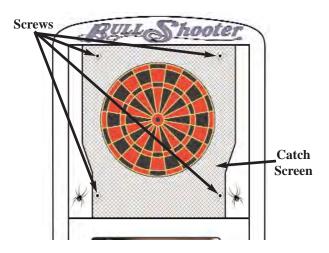
A lot of times the tip has enough material sticking out of the hole where you can simply pull out the tip with a pair of pliers.

B. Disassembling the Darthead

Maintaining dartheads means that sometimes you will need to get at the inner workings of the darthead: the segments, the rubber mat and matrix.

Start by making sure the 15" darthead is in front.

1. Remove the four (4) Screws holding the catch screen in place.



Knurled Knurled oote Nut Nut Latch Latch Assembly Assembly **TI Board** Knurled Knurled Nut Nut Latch Latch Assembly Assembly Head 13 Connector 3. Unplug the Matrix ribbon cables from the Target Head 15' Interface (TI) Board. Connector

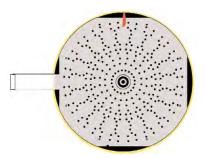
Remove catch screen from the darthead.

2.

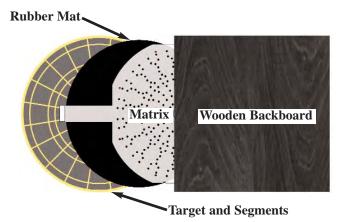
4. Turn the Latch Assemblies so that they are no longer holding the darthead to the back board. Start with the upper left Latch Assembly and end with the lower left Latch Assembly

Note: You will want to hold the darthead to the backboard while you perform step four (4). The darthead could be damaged if it were to fall.

- 5. Carefully remove the darthead.
- 6. Lay the darthead on a flat surface. At this point you may want to mark which end is the 20.



7. Use a clean damp cloth to wipe down the matrix and rubber mat.



- 8. Remove the backs of each segment and dump its contents (if any) into the garbage.
- 9. Check over the segments and clean up any broken plastic.
- 10. Wipe down the sides of the segments. Make sure they are completely free of debris and are dry before replacing them in the web.
- 11. Reassemble the darthead and do the opposite side.

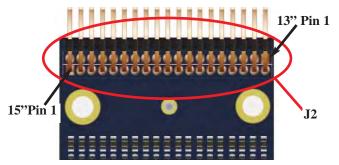
Note: Make sure you get the darthead in the correct order. If any of the pieces are misaligned or out of sequence, the players will have difficulty scoring.

We suggest performing darthead maintenance before each season. This will reduce the amount of service calls you are likely to get. However, it really all depends on the amount of play the dartboard receives at each location.

If its a location that is heavy into dart leagues, you might want to perform maintenance more often.

C. Testing the Target Interface Board

Both the 15" and the 13" switch matrix are connected to the Target Interface Board (TI Board) at the 38 pin connector J2. The front nineten (19) pins are used for the 15" darthead and the back nineteen (19) pins are for the 13" darthead.

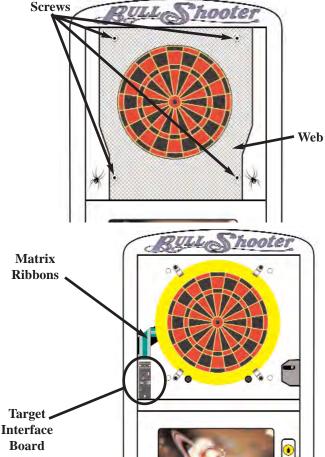


You can only access the Target Interface board from the 15" side of the darthead. The first step is to remove the web on the darthead.

1. Remove the four (4) Screws holding the web in place.

To Purchase This Item, Visit BMI Gaming | www.bmigaming.com | 1-800-746-2255 | + 1-561-391-7200

2. Remove catch screen from the darthead.



Note: You can only do this test from the 15" side. There is no way to easily access the Target Interface Board from the 13" side. This instructional will show you how to test both sides from the 15" side.

3. Unplug the matrix ribbon cables from the Target Interface (TI) Board.

Warning: The pins on the Target Interface board can be bent when excessive force is used to remove the matrix ribbons.

Don't unplug either matrix by pulling on the ribbon. Unplug them using the connectors.



- 4. Go into the **Service** menu on the Galaxy 3.
- 5. Select **Diagnostics**.
- 6. Select Target Test.
- 7. Use a jumper and the chart below to test the individual pin combinations.

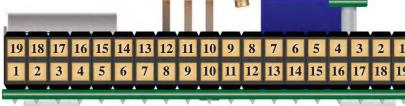
Note: As stated earlier, this test can only be performed from the 15" side.

If you follow the chart below, keeping in mind where the Pin 1 positions for each target are, you will get the results you are looking for. More information on where pin 1 is for each matrix connector is, refer to the diagram **TI Board Top View** on this page or **Section 3.6** on page 5.

Pin #	13	12	11	10	9	8	7	6
1	D3	03	Т3	13	D1	01	T1	I1
2	D17	017	T17	I17	D18	018	T18	I18
3	D2	02	T2	I2	D4	04	Т4	I 4
4	D15	015	T15	I15	D13	013	T13	I13
5	D10	O10	T10	I10	D6	06	T6	I 6
14			OB	IB				
15	D19	019	T19	I19	D5	05	Т5	15
16	D7	07	T7	I7	D12	012	T12	I12
17	D16	016	T16	I16	D9	09	Т9	19
18	D8	08	T8	I 8	D20	O20	T20	I20
19	D11	011	T11	I11	D14	014	T14	I14

Galaxy 3 Matrix Pinout

Note: Only use the pins in the same row when testing the Target Interface Board. Nothing bad will happen. Your readings will just be inaccurate.



15" Darthead Pins

13" Darthead Pins

TI Board Top View

Section 9 Parts Listing

The numbers listed are Arachnid part numbers. Please use the Arachnid numbers when placing an order. Some descriptions are followed by a number in parentheses. This number is the quantity used in that assembly.



A) 43295 Upper Cabinet Assembly YRB/RWB Camera Ready



Part#	Ref#	Description
43017	1	Upper Cabinet G3
43316	1	Cooling Fan (Not Shown)
43116	1	Magnet (2) (Not Shown)
43146	1	Access Cover (Not Shown)
43075	1	Speaker
43308	2	Marquee Assembly
43125	3	Dual Target Assembly YRB/RWB
43325	3	Dual Target Assembly INT/RWB
43185	4	Dartboard LED PCB W/Bracket (2)
43130	4	Dartboard LED Diffuser
41676	5	Push Button - Up/Down (black/yellow) (2)
34811	6	Push Button Lamp GE 658 Bulb (3)
19131	6	Push Button - Player Change (black/red)
43213	7	Monitor with Bracket Assembly
42710	7	LCD Monitor
43166	7	Monitor Bracket
41821	7	Monitor Power Cable (Not Shown)
43236	7	Monitor VGA Cable (Not Shown)
42115	8	Hot Button Probe
43314	9	Bezel w/Logo
43165		Ground Plane Assembly 120V (Inside Cabinet)
43165		Ground Plane Assembly 230V (Inside Cabinet)

43125 Dual Target Assembly

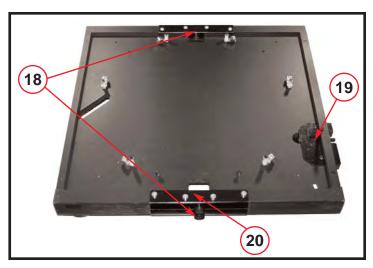
Ref# Description

Part#

10	15" Web Mounting Screws (4)
11	15" Yellow/Black/Red Spider and Segments Assembly
11	15" International Spider (White) and Segments Assembly
11	15" Rubber Matt Damper
11	15" Switch Matrix
12	15" Web
13	15" Darthead Retaining Bracket Assembly
14	Target Back Assembly
15	Knurled Nut (4)
16	TI (Target Interface) Board
17	TI Board USB Cable
18	Upper Pivot Bracket 15" Side
18	Pivot Tube (2)

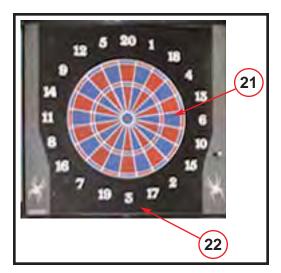
Galaxy 3 Dual Head Latch Assembly

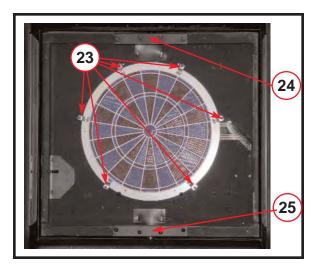
Lower Pivit Bracket 15" Side





Part#	Ref#	Description
42582	21	13" Red/White/Blue Spider and Segments Assembly
35881	21	13" Rubber Matt Damper
17015	21	13" Switch Matrix
43123	22	13" Web
43180	23	13" Darthead Retaining Bracket Assembly
43150	24	Upper Pivot Bracket 13" Side
43151	25	Lower Pivot Bracket 13" Side

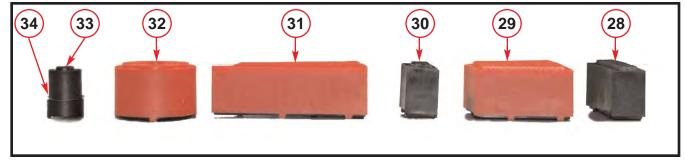






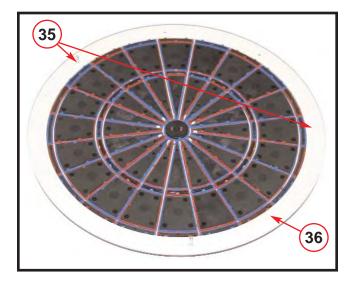
37376 Yellow/Black/Red (YBR) Spider and Segments Assembly

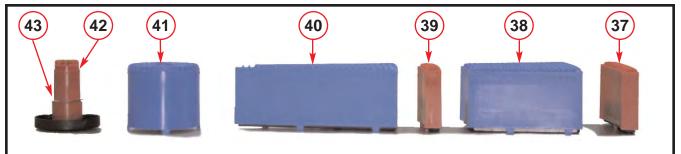
Part#	Ref#	Description	26 (27)
41590	26	Alignment Pin (2)	
42036	26	Alignment Pin Screw (2)	
29268	27	15" Spider	
18069	28	15" Segment, Double Red (10)	A XX XX XX
19079	28	15" Segment, Double Black (10)	
21408	29	15" Segment, Outer Single Red (10)	
22518	29	15" Segment, Outer Single Black (10)	
23628	30	15" Segment, Triple Red (10)	
24738	30	15" Segment, Triple Black (10)	
25848	31	15" Segment, Inner Single Red (10)	X XX IXX I
26958	31	15" Segment, Inner Single Black (10)	
29078	32	15" Segment, Outer Bull Red	
27148	33	15" Segment, Inner Bull Black	
35845	34	15" Spring, Inner Bull	



42582 Red/White/Blue (RWB) Spider and Segments Assembly

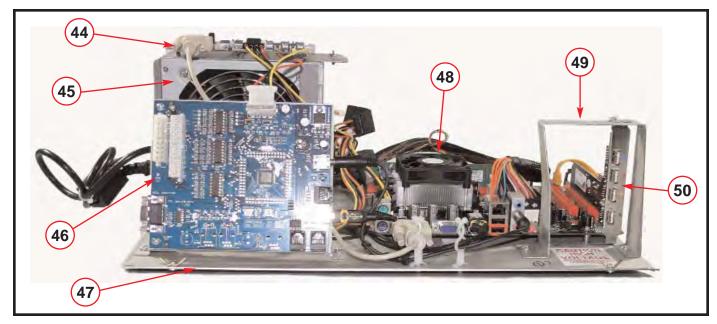
Part#	Ref#	Description
41590	35	Alignment Pin (2)
42036	35	Alignment Pin Screw (2)
42575	36	13" Spider
42616	37	13" Segment, Double Red (10)
42617	37	13" Segment, Double Blue (10)
42618	38	13" Segment, Outer Single Red (10)
42619	38	13" Segment, Outer Single Blue (10)
42620	39	13" Segment, Triple Red (10)
42621	39	13" Segment, Triple Blue (10)
42622	40	13" Segment, Inner Single Red (10)
42623	40	13" Segment, Inner Single Blue (10)
42580	41	13" Segment, Outer Bull Blue
42624	42	13" Segment, Inner Bull Red
36250	43	13" Spring, Inner Bull





43165 Ground Plane Assembly

Part#	Ref#	Description
43301	44	Power Cycling Board
42746	45	Power Supply
43299	46	Input/Output Board (IOB)
43086	47	Ground Plane Bracket
43357	48	Motherboard Assembly with Ram, Processor, and Processor Fan
43148	49	PCI Card Mounting Bracket
43147	50	5 Port USB PCI Card



B) 43102 USA Base Assembly 120VAC



Part#	Ref#	Description
43014 41790 41883 43065 43119	51 52 53 53 54	Lower Cabinet G3 League Chute Coin Door, USA, Bill Ready, Over/Under Coin Door Harness, USA, 120VAC Leveler Spacers (4)
42416	54	Leveler (4)

Appendix 1 Recommended WiFi and Dialup Modems

These are the current recommended Wifi PCI Modems for the Galaxy 3. As we test more modems this list will change.

Brand	Model	B/G/N (Communication Speed)	Note
EnGenius	EPI 360IS	G	High Powered Card
Trendnet	423p	G	
Dlink	DWA 552	N+	
Dlink	DWL G520	G	
Sabrent	PCI G802	G	
Linksys	wmp600n	N	
TP-LINK	TL-WN75!ND	N	
Imicro	Int-pci	G	

Below is the list of Dialup Modems we've tested. This list may also get bigger as we test more.

Note: Remote Play cannot be done over a Dialup Modem.

Brand	Model	Туре
Zoom	3095 USB	USB
Multitech	PCZPX MT9234ZPX-UPCI	PCI