



GENERAL Inflatable Product Manual

General Safety Rules- All rules must be followed for rider's safety.

(Check with your local government for any specific rules related to inflatable ride safety.)

- * Before the inflatable unit is securely anchored and fully inflated, do not allow anyone to get inside or on the inflatable.
- * In case of power failure or if unit begins to lose air, empty the inflatable ride immediately.
- * Do not use in high wind, rain, snow or lightning conditions. If wind exceeds 15 MPH, empty the inflatable and deflate.
- * Use an adequate three wire extension cord, min. 12 gauge for 50ft. Never cut or remove the round grounding pin from the cord. Check with your local regulation and blower's manufacturer user manual for the use of the blower and the extension cord.
 - * Always connect a GFI extension cord adaptor to any extension cord before plugging into a power source to reduce the possibility of shock in damp environments.
 - * Check the GFI operation at least once per event
- * Frequently check the connection of GFI extension cord and any extension cord when using the inflatable. All extension cords and straps should be placed in such a manner that no one can trip on them. No electrical cords should run through puddles or near a pool.
 - * Get the map of underground utilities before driving in any stakes.
- * Do not allow any children or adults in the rear of the ride or near the blower at any time. No climbing on the exterior of the inflatable is allowed.
 - * Make sure the players wear safety headgear in use of the Joust Arena and Boxing Ring
- * No head-down play on any inflatable amusement devices. No play or jump on the safety step or near the entrance/exit. No play flip-upside-down on Velcro Wall. No head-down slide on any slide or safety step. No play or jump on the top platform of any slide.

- * Ground stakes should follow the specification stated in this manual. If the ground is loose, use longer stakes accordingly. Cover the stake heads properly to avoid falling. Check regularly to ensure they are tight when the inflatable is in use.
 - * Do not put fingers or hands into blower when running
 - * Always leave enough space around and above the inflatable.
- * Use proper barriers to prevent crowds from being close to the inflatable device other than the designated entrance and exit.
 - * Follow and sign the "Pre Operation Inspection Checklist" with each installation and setup of any inflatable

Additional Safety Rules

- Rider Height Requirements: Minimum Height-- 36", Maximum Height-- 70"
- Adult Supervision is required at all times while inflatable is in use. Minimum required operator/attendant: one by the entrance/ exit.
 - Do not set up inflatables near a swimming pool.
 - Exercise caution when lifting and handling the equipment.

ASTM RECOMMENDATIONS AND GUIDELINES

BounceWave Inflatable Sales supplies products that follow ASTM Guidelines and recommendations. Below are the following guidelines:

- ASTM 2374 Standard practice for design, manufacture, operation, and maintenance of inflatable amusement devices
- ASTM F770-18 Standard Practice for Ownership, Operations, Maintenance, and Inspection of Amusement Rides and Devices
- ASTM F1193-18 Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices
- ASTM F2291-18 Standard Practice for Design of Amusement Rides and Devices
 - NFPA 701 Compliant

Installation and Set-up

Please make sure that the inflatable is operated by trained operator(s), a trained operator is one that has been instructed in the safe operation of a particular inflation device and has completely read all instructions provided by the manufacturer of the ASTM recommended operations of inflatable structure devices

Tie Downs (ASTM recommendation)

1. All air supported devices shall be anchored per manufacturer's requirements.
2. All ground stakes/anchors shall be of sufficient depth to prevent movement of the device at the maximum allowed operational wind speed.
3. No more than two tie down ropes shall be attached to any one tie down stake/anchor.
4. All tie down ropes/straps attached to the device must be used.
5. In lieu of tie down stakes/anchors, a minimum of 75 lbs weight must be attached to each tie down. The weight used shall be of sufficient amount to prevent movement of the device at the maximum allowed operational wind speed.
6. In lieu of tie down stakes/anchors, sand bags, water barrels, metal weights may be used. No concrete or cinder blocks will be allowed.
7. No tie downs to motor vehicles shall be allowed.
8. Ropes, tethers and tie downs shall be sufficiently strong enough to prevent breakage.
9. The recommended size is 1/2 " solid-braided polypropylene with a tensile strength of 3700 or 370 lb test rated.

Survey the site you plan to install

A. Verify that the dimensions (inflated size) do not interfere with power lines or other overhead obstructions. The site selected for set-up should be clear of debris, sharp objects, sticks, stones, etc. Select an area in which you will have a 3' clearance on all sides. Set up on a level area, not one that is hilly or slanted.

B. Verify, before deciding on location, that driving stakes into the ground will not create a shock hazard by violating utility lines such as gas or power. Contact your local utility company for information if you are not sure.

Ground Tarp

A. Lay out ground tarp in the area you have chosen for installation. Tarp should be left on the ground during the entire time the inflatable is in use. Roll inflatable onto the tarp, and decide the direction of the entrance into the inflatable.

Face inflatable with a slide away from direct sun. Facing your inflatable slide towards the north or northeast will keep the unit cooler.

B. Unroll the inflatable to locate the front or back. Locate the blower tubes on rolled inflatables for location of front or back. Point the inflatable in the direction you have chosen for your set-up.



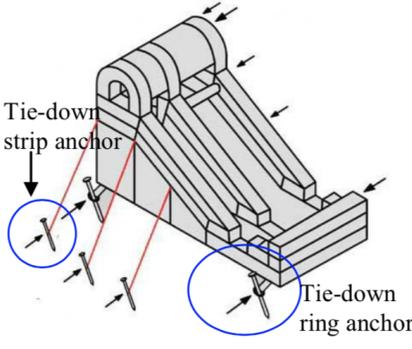
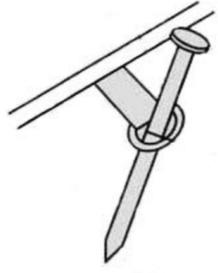
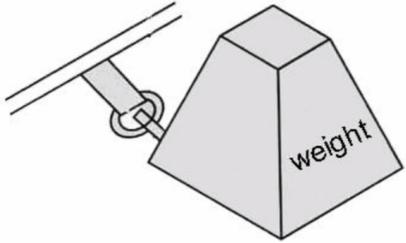
C. Unfold inflatable and locate zippers. Close all zippers and seal flap over zippers completely to make sure air is sealed.

D. Stake the inflatable or tie the sand bags to the inflatable before inflating (see Table of the anchor requirement). Be sure the stake heads are away from the inflatable to avoid damaging the inflatable while hammering (Check with local government and your insurance company for any specific requirements on how to secure the inflatable).

Always cover the stake head to prevent tripping hazard. Properly anchor and secure all the anchors (anchor rings and tie-down straps) provided on each inflatable device using required stakes or sand bags. Operational automotive equipment or other transportation devices shall not be used as anchorage for any inflatable devices. All the anchor points provided on the inflatable

device must be anchored properly before any use of the device. All the stakes must be covered properly to prevent any tripping hazard.

Table of the anchor requirement

	Tie-Down Ring Anchor		Tie-Down Strap Anchor	
	with Stake	with Weight	with Stake	with Weight
Device under 15' Tall	Min 24" stake with 6" above ground	200 lb	Min 24" stake with 6" above ground	200 lb
Device 15' and taller but less than 20' tall	Min 24" stake with 6" above ground	200 lb	Min 40" stake with 10" above ground	300 lb
Device 20' and taller	Min 40" stake with 10" above ground	300 lb	Min 40" stake with 10" above ground	300 lb
*** If the inflatable device set up on loose soil condition, use minimum 40" stake on all anchor points for any size of inflatable***				
 <p>Tie-down strip anchor</p> <p>Tie-down ring anchor</p>		Anchor with stake 	Anchor with Weight  <p>weight</p>	



Note: Anchoring weights and stakes are intended to keep inflatable device from shifting during normal operation. They are not intended to anchor inflatable during high winds. DO NOT operate inflatable in winds above 15 mph. If winds exceed 15 mph during operation, evacuate and deflate immediately.

Blowers (ASTM recommendation)

1. Each device shall have the proper number of blowers and proper horse power as stated in the manufacturers specifications. Always use a 1hp blower with a minimum of 700 and a maximum of 900 CFM. Always plug the blower into a 115v outlet 20 amp circuit.

2. All blowers, extension cords, electrical boxes shall meet the requirements of the most current National Electrical Code.

3. All blowers shall have a Ground Fault Interrupters (GFI) in the circuit.

< Do Not Connect to Timer outlet

If you are using two blowers, each one needs to have its own 20 amp circuit. If using a generator keep the generator 15 feet from the blower system. Exhaust fumes can cause carbon monoxide poisoning inside inflatable.

If using a generator, follow all instructions listed on the generator, such as grounding instructions. Ensure the electric cord is tied to the generator, so it will not pull out by accident .

Connecting Blower.

1. Locate the blower on a flat and dry surface in an area away from pathway. Connect the fan cone to the air tube, tie tight with the strap. Adjust the blower's position to let the air tube straighten. If the inflatable unit has two tubes, use the one that is most convenient, and cost the least obstruction. Fold over the unused tube, secure it with the strap.
2. Plug the blower power cord into the GFI (Ground Fault Protected Circuit) extension, and then plug the GFI extension into the extension cord. Plug the extension cord into the power source. Check the GFI to ensure operation.
3. Turn the blower on. Observe the inflation of the inflatable as it rises. Guide the unit up. For Slides make sure tether lines are not restricting inflation.
4. After inflatable is completely inflated, straighten blower tubes as they may have become kinked during inflation.
5. Check the air tubes to make certain there is no large air leakage. Do not place fingers or hands into the fan intake or outlet when the fan is in operation. Do not allow any children or adults in the rear of the ride or near the electric blower at any time.

Operating Instruction While in Use

In the majority of circumstances an inflatable is rented from an Operator (Operator = Individual or company renting out the inflatable) . The Operator will generally deliver the inflatable and may inflate it. Operators may supply Attendants whose role/function is to supervise users and ensure safe operation and use of the inflatable.

However, the contract may make the Renter responsible for supervision of the inflatable while the inflatable is in use. If so it is essential that the Operator supplies clear guidance and instructions for safe use. In such circumstances the renter should appoint a sufficient number of suitable i.e. mature and responsible persons, to act as Attendants.

It is the responsibility of the Operator to provide training for the Attendants (Renter, or a person over the age of 18 assigned by the renter)

It is particularly important that a responsible person, capable of exercising some authority over users, especially children, supervises the use of the inflatable unit(s) at all times.

A “safe system of work” must be established to ensure that the users are admitted to the inflatable bouncer in a controlled and safe manner.

Divide the players in groups by similar age and height. Maximum weight per passenger is 200 lbs for all inflatable units. Maximum number of riders of each group that should play in the inflatable devices at one time is:

	Size of the Device	Age 8 and under	Age 9 to 12
BOUNCER	11'x11'	6, or max weight of 600 lb	4, or max weight of 600 lb
	13'x13'	8, or max weight of 800 lb	5 to 6, or max weight of 800 lb
	15'x15'	10, or max weight of 1000 lb	6 to 8, or max weight of 1000 lb
	13'x15'	9, or max weight of 900 lb	6 to 7, or max weight of 900 lb
	15'x19'	12, or max weight of 1200 lb	8 to 10, or max weight of 1200 lb
	20'x20'	16, or max weight of 1600 lb	10-12, or max weight of 1600 lb
COMBO	13'x15', slide on the side of the combo	6, or max weight of 600 lb	4, or max weight of 600 lb
	13'x17', 13'x18' slide on the side of the combo(Type I)	8, or max weight of 800 lb	5 to 6, or max weight of 800 lb
	Slide on the front of the combo(Type II), and the base of the bouncer is 13'x13', such as: 13'x20' 13'x23', 13'x27', 13'x28'	8, or max weight of 800 lb	5 to 6, or max weight of 800 lb
	15'x22' slide on the front of the combo(Type II)	10, or max weight of 1000 lb	6 to 8, or max weight of 1000 lb
	 Type I: Slide on the side of the combo		 Type II: Slide on the front of the combo
SLIDE	OBSTACLE COURSE	BUNGEE RUN	One player per lane at a time

The operator must:

- ✓ Ensure that the ride does not operate if the wind exceeds 25 mph.
- ✓ Ensure that all users remove their footwear (except socks) and any other hard, sharp or dangerous objects from their person, such as buckles, pens, purses etc. It is advised that spectacles be removed;
- ✓ Ensure that users are not consuming food/drink or chewing gum in the inflatable
- ✓ Ensure no one bounces on the step (entry ramp). The step is only to be used to assist the users on or off;
- ✓ Not allow anyone to climb or hang from the outside walls;
- ✓ Not allow users who are taller than the outside walls of inflated bouncing surface to use the inflatable.
- ✓ Watch the activity on the inflatable constantly.
- ✓ They should use a whistle or other device to obtain attention and take action at the first sight of any misbehavior, keeping an eye on the safety and well-being of all the users, particularly children and especially the smaller, more timid ones. Rough horseplay must not be allowed.
- ✓ It is the responsibility of the operator to ensure that the equipment is not overloaded, therefore, creating possible danger to the users.
- ✓ Sort riders by size. Only riders of the same size should be allowed on the ride at the same time, larger / older children should, where possible, be segregated from smaller children.
- ✓ Ensure the number of users at any one time are limited to a number which allows each user enough room to play safely.
- ✓ Ensure the weight capacity of the inflatable is never exceeded. The capacity of the ride can be found in the chart on the previous page.
- ✓ Ensure the rules posted on the warning sign are strictly enforced.
- ✓ Assist the riders while they exit the ride.
- ✓ For slides, the operator must be aware that elbows, knees and backs of legs can become burned if the unit is too hot due to extreme hot temperatures. To avoid friction burn, operators should instruct riders of slides to cross arms over their chests to avoid elbow and arm contact.

Operator should check frequently to make sure all buckles on the fans and tie-downs are attached properly and in good condition while operating.

Operator should observe the users of the inflatable device at all times.

Divide children by ages and give each group their own time to bounce, jump or slide. No children 3 year old and under, or less than 42" tall should play on any inflatable device. The allowed player's minimum age for Obstacle Course is 6, minimum age for Velcro Wall is 8, minimum age for Joust Arena is 16, minimum age for Bungee Run is 16, and minimum age for Boxing Ring is 6.

If the inflatable is deflated accidentally (i.e. power outage), have all children exit orderly through the door, or emergency roof/ceiling release, or alternate exit. Do not panic, you will have time to get everyone out safely! Deflation time is approximately 45 seconds.

Minimum Inspection Requirements

Inspection of your units is critical and it should be conducted every time you set up a unit for customer use. *Keep a log of inspections.*

For all inflatables inspect for the following

→Inspect each anchor point to ensure it is snug. Inspect for worn or cut straps, missing D rings. →Inspect the blower tubes and retaining strap and buckle to ensure they are in good condition, and the blower/inflation tube connection is tight.

→Inspect the blower flaps; the flaps should fall free, the blower has no exposed wires or loose bolts, screws etc. and that the mesh guards over the air inlet and outlet are secure and intact; electric cables are not worn or chafed and that plugs, sockets and switches are not damaged; →When fully inflated, all walls are firm and upright, and the pressure in the bed and step is sufficient to give a reliable and firm footing.

→Inspect the surfaces of the platform for debris, rips, holes, and seams that may be stressed. Inspect the velcro flaps and deflation zippers to ensure proper function.

→Inspect the netting for any tear. If a child's head can fit through the tear the child can choke.

Additional Inspection points

→For Slides and Combos: Check Steps, handrails, and any climbing surface to ensure webbing and stitching are intact. Ensure the slippery surface has sufficient lubricity.

→For Slides and Combos: Ensure the Velcro and both the top and bottom surfaces of the slide are in good condition and there is no signs of cracking, peeling.

→Obstacle courses: Inspect insides of tunnels, tubes, and crawl spaces for excessive wear, or rips.

Deflation Procedures

Before deflating any unit, make sure you remove any debris that may have been left behind. Check to make sure no objects (pens, pencils, sticks, etc) have fallen into the seams of the unit.

1. Make sure there are no riders inside or around the unit before you turn the switch off and unplug the blower.
2. Disconnect the air tube from the blower and untie the second air tube. Let both air tubes lie parallel so the air can escape freely.
3. As the unit deflates, arrange the columns to fall on top of the base making sure the deflated unit is evenly spread out.
4. Standing in front of the unit (entrance), fold the left side and the right side so they meet in the middle and then fold one side over the other.
5. Roll the unit towards the air tubes and then tuck the air tubes into the roll.
6. Secure the roll with each strap tied into a slip knot and dolly the unit into a dry area for storage.

Cleaning and Maintenance

* Clean the inside and outside carefully after each operation. It is easier to clean the units in an inflated position.

* Never use a chlorine based cleanser or bleach, as they may damage the thread or vinyl.

* Never use M.E.K.(Methyl Ethyl Ketone) to clean the inflatable, as this will damage the vinyl.

* Let it dry before rolling up. If water has been accumulated inside the inflatable mattress and other inaccessible areas, the unit should be inflated outdoors for as long as needed to let it dry thoroughly.

* For long time storage, clean carefully and let the inflatable dry thoroughly.

* Roll up the inflatable tight and store the inflatable on a dry surface.

Repairs

Use the repair kit provided with each unit. To repair holes and tears smaller than 12”, follow the “single patch method”:

- **Cut an oval or round shape vinyl patch, approximately 2” larger than the hole.**
- **Clean around the hole area**
- **Apply glue on the patch and around the hole area**
- **Let the glue dry for 3 minutes**
- **Place the patch covering the damaged area under pressure (with your palm, or put under heavy objects) for 1 min. Let the glue dry for at least 15 minutes before rolling up or inflating.**

To repair large hole or tears:

- **Put a patch inside the torn area, repair as described above in “single patch method”**
- **After the inside or torn area is repaired, apply another patch to the outside surface, repair using “single patch method” as described above again.**

Pre Operation Inspection Checklist

The following checklist is to be performed together in the presence of the Owner/Operator and the Renter upon each installation and set up of each inflatable ride and game sold by BounceWave Inflatable Sales. Failure to read, understand, and follow these rules could result in injury.

Renter Initials	Owner/ Rep. Initials	Inspection Areas	Comments/ Action Taken
		Inflatable Game(s)	
		Weather conditions are safe for operation of all games	
		Vinyl/patterns clean and free of stains	
		Seams and mesh are secure and in good condition	
		Tie down straps are strong with on breakage	
		Inflatable is staked in place, and will be anchored at all time	
		Inflatable is secured by sand bags, and will be anchored at all time	
		Entrance safety net is secure and in place	
		Entrance/Exits clear of obstructions and will remain clear	
		Warning signs are clear and visible	
		Internal air pressure is sufficient to give a firm footing	
		No debris or sharp objects are present	
		Passageways are clear of obstructions	
		Ropes and footholds are strong and intact	
		Slide area is controlled by overhanging cover	
		Inflatable is clear of any utility	
		If the game is multi pieces connected together, make sure all connections are tight and secured	
		Accessories (If Applicable)	
		Blower is clean, and firmly attached to the inflatable	
		Blower is working and plugged into a GFCI 110V outlet	
		If using a generator, user all manufacturer's guidelines for operation	
		Electrical cords are free from wear and do not pose any trip hazards to patrons or guests	
		Misters are firmly attached and working securely	
		Water source is clean and free of debris and odor	
		Exiting water will drain away from the inflatable unit	
		Boxing gloves are clean inside and out	
		Jousting poles are clean, strong, and secure	
		Fencing is secure and in place	

I have inspected the inflatable unit(s) and find all items satisfactory and acceptable.
Renter Name: _____ **Date:** _____

Operator/ Attendant Responsibility Checklist

The following checklist is to be performed together in the presence of the Owner/Operator and the Renter upon each installation and set up of each inflatable ride and game sold by BounceWave Inflatable Sales. Failure to read, understand, and follow these rules could result in injury.

Date _____ Serial Number(s) _____
 Game(s) _____
 Renter Name _____ Driver/Attendant Name _____

Renter Initials	Owner/ Rep. Initials	Operator/Attendant Responsibilities	Comments/ Action Taken
		*Supervision by adult trained attendant is required at all time	
		The Operator/Attendant should point out and make all riders aware of the Rules posted on the game	
		The inflatable MUST BE securely anchored at all time	
		Entry into the inflatable device should be orderly and in a controlled manner	
		Riders should be of similar age range, height, and weight. Do not put older children or adults with younger children.	
		Persons with mental or physical impairment should not be allowed to use any of the inflatable devices.	
		NO: Riders under the age of 3 years old, or less than 42" tall	
		NO: Shoes, eyeglasses, jewelry, or other sharp objects	
		NO: Somersaults, diving, wrestling, rough play, or flips	
		NO: Food, drinks, gum, pets, or silly string	
		Do not jump onto or off of the ride	
		Use of whistles and signaling devices	
		Keep patrons away from the blower at all time	
		DO NOT USE: Immediately deflate the inflatable if wind conditions exceed 15 MPH and or it rains.	
		For Riders with Climbs and Slides	
		Go down the slide feet first only, one rider per lane at one time	
		NO: climbing up the slide the wrong way	
		NO: jumping onto the slide area	
Renter Initials	Owner/ Rep. Initials	Emergency Procedures	Comments/ Action Taken
		In the unlikely event of a severe Weather Alert, Power Failure, or a Medical Emergency:	
		Exit patrons in and orderly fashion away from the game	
		Turn off the blower and unplug from the outlet	
		Keep patrons and guests away from the inflatable	
		Call the appropriate emergency responders if necessary	

I have been instructed in and understand the Operator/Attendant Responsibilities and the Emergency Procedures listed above.

Renter Name _____ Date _____
 Owner/Rep. Name _____ Date _____

