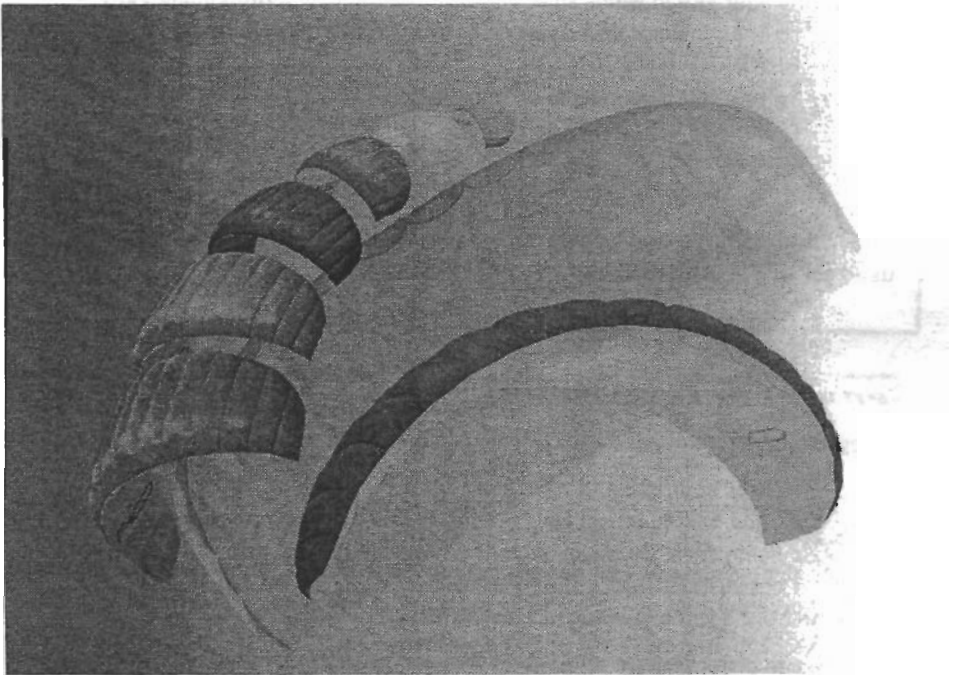


**PKD**  
PARACONTROL KITE DIVISION

# ***BUSTER***

***0.7 1.4 2.0 3.0 4.0 5.5 7.0***

## ***USER MANUAL***



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## ***Congratulations for purchasing your PKD BUSTER kite.***

**BUSTER** kites are made from PKD's own high quality 40D/70D ripstop nylon and SK75 Dyneema flying and bridle line materials. **BUSTERS** are very maneuverable and easy to fly and can be adjusted to suit a variety of flying styles.

**PLEASE NOTE** that the **BUSTER** can be extremely responsive, fast and powerful in strong wind conditions. We strongly recommend to make the first flights in light winds and safe flight conditions. Complete your pre-flight check, set up and carefully select your kite flying spot away from people and animals.

**This is for your safety and the safety of others!**

### ***!! Warning !!***

- !** Never fly near overhead power cables, roads, railways and airports.
- !** Never fly your kite in winds so strong that you are over powered and out of control.
- !** Never allow an inexperienced person to fly your kite without training and supervision.
- !** Never fly your kite over people or animals.
- !** Note the **BUSTER WIND RANGE**, on page 7 of this manual.

### ***Attention!***

**BUSTER kites have been designed as traction kites. They should NEVER be used for any AIRBORNE and MAN-LIFTING activities.**

## ***General safety rules***

1. Keep within recommended **BUSTER WIND RANGE**.
2. Regularly check your kite and when necessary, replace worn parts such as bridle, flying lines and handle ropes. For your safety and the safety of others, do use worn or damaged flying lines. Damage caused by crashing the kite or by exceeding the wind ranges is not included within the repair warranty. If you shock load the kite by crashing onto the front section, serious internal structural damage can occur.
3. Keep a safe distance from other kite flyers and spectators. Flying lines under tension can cut like cheese wire. Spectators should watch from behind you.
4. Nature reserves are areas where animals should not be disturbed.
5. Always be in control of your kite. Make sure that nobody is endangered if you let go of your kite.
6. Wear personal safety and protective equipment.

## ***Supplied "IRTF" Kit***

**BUSTER** kites have been individually set up and prepared to be "immediately ready to fly" (IRTF). The **BUSTER** kit includes kite, flying lines, winder, adjustable handles, nylon bag and manual.

## ***Preparation for flight / setup***

First, read the general safety rules.

Take the kite out of its bag and unfold it on the ground. The kite`s bottom surface (with the PKD logo on it) should be facing up. With the wind on your back, position the kite so that the flying lines are next to you and the air intakes are on the opposite side of the kite.

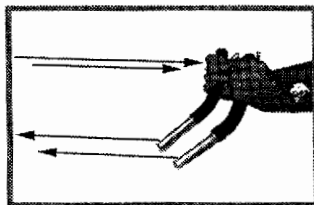
**If necessary, check the handles main rope screw for tight lock !**

Now, remove the two rubber bands and unwind the flying lines whilst walking away from the kite (into the wind). Make sure there are no twists in the lines or tangles in the bridle.

## ***Starting***

To launch your **BUSTER**, hold the handles as shown in the picture and give a powerful pull back.

**Important note:** Make sure that you point the bottom of the handles towards the kite so there is no tension on the bottom, thinner brake lines when you pull back. Otherwise the kite will not launch. For launching in stronger winds, it is recommended to get someone to help you.

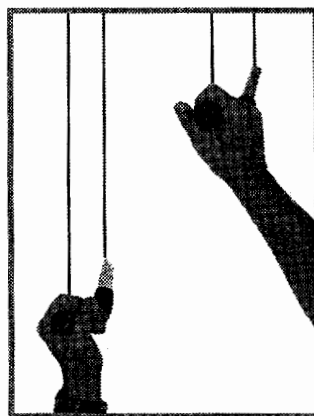


## ***How to fly***

Once the **BUSTER** has reached its highest point directly above you, it`s time to know about the turn maneuvers. Carefully turn the kite with sensitive but determined actions. Note: Most beginners turn the kite to the left or right side and then forget to counter steer. If there is no reaction, the kite will crash into the ground. Be ready for the pull to increase as the kite moves in the center of the power zone. Make your first moves slowly and get used to the reaction of the kite.

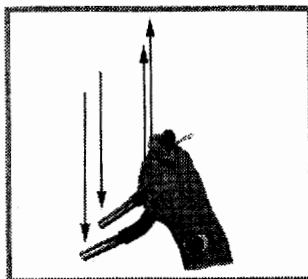
**Turn left:** pull the left handle down and push the right handle up as shown in the picture.

**Turn right:** same style but opposite way. To increase the turning speed, you can use the brake lines by tilting one handles forwards as you pull it down. For precise control, you can combine both turning styles like a pull/push/tilt action of the handles.



## ***Touch down***

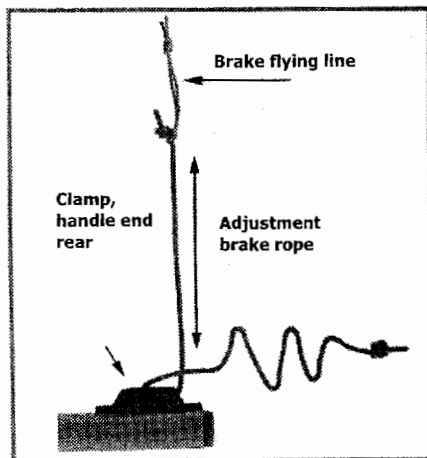
There are two ways to land your **BUSTER**. The first way is to fly it to the left or right outer wind edge until it loses all power and touches down. This procedure is recommended in higher winds and with the assistance of a kite catching person. The second way, for normal and lower wind speeds, tilt the handles slightly backwards and wait until the kite begins to fly backwards towards the ground. Do not tilt the handles excessively, as this will cause the kite to land in a rough and uncontrolled way. Always make sure that the landing area is safe and nobody endangered.



**Note:** Once landed, keep the handles locked in this position so that the kite doesn't relaunch. Hook the handles over a sand stake or tent peg to keep tension on the brake line ropes, and then put some sand, snow or small stones on the trailing edge of the kite to hold it securely on the ground.

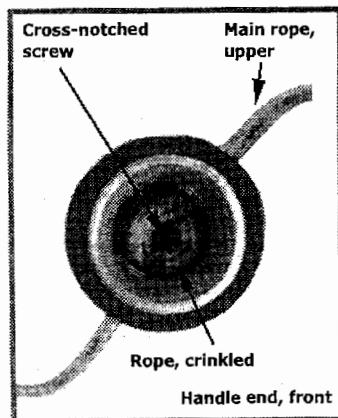
## ***Brake Line Adjustment***

As the main flying lines can stretch during flights, the **BUSTER** handles have special cleats to adjust the brake flying line length in relation to the length of the main flying lines. The brake lines should be slack enough for the kite to fly without creasing the trailing edge, but tight enough to stall the kite when the handles are tilted forward. With this feature, you can always fly with correct brake line tension:



## ***Exchange of Handle Main Rope***

If you want to adjust or renew the 5mm main rope, remove the PVC end cap on the top of each handle. Use a cross head screw driver to loosen the screw. Adjust or get rid of the old rope and sleeve in the new one (available at PKD). As shown in the picture, twist a loop into the rope inside the tube and insert the screw with the washer through the loop. Make sure that the washer is placed with the rounded edge towards the rope. Tighten the screw as much as possible and replace the end cap.



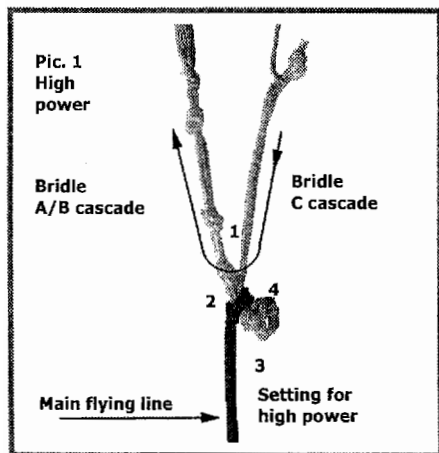
## Bridle Adjustment

The main flying lines attach to a special knotted line on the kite bridle, and depending upon which knot they are attached to, will change the Angle of Attack (AoA) and therefore also change the flight character of the **BUSTER**.

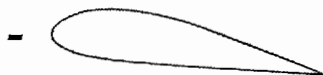
You have the option to select which of the 4 knots you use to attach the main flying lines, but you can also use 2 knots together to give finer adjustment.

The pictures show you the high force, medium force and low force settings for your kite.

**Please note:** It is important to use identical settings on the left and right bridles.

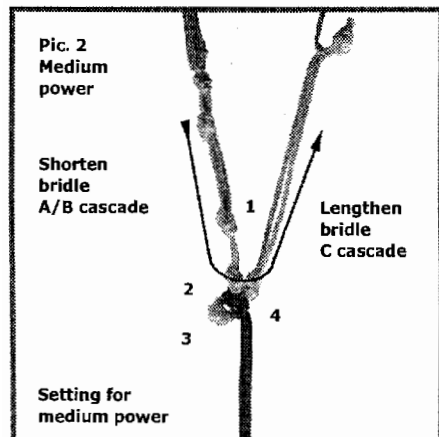


**pic. 1** high angle of attac, high power



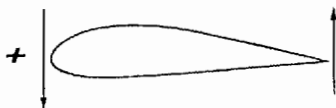
### High power

We recommend that you fly the **BUSTER** as it is trimmed in production. If you want to alter the way the kite flies, change the AoA in small steps in order to avoid any unexpected flight behavior. To set the **BUSTER** for high power, increase the AoA by lengthening the A/B cascades and shortening the C cascade - see the picture 1



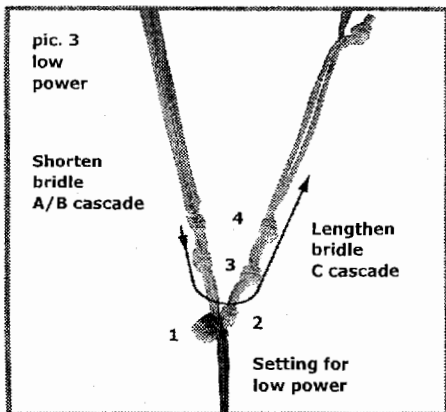
**pic. 2**

medium angle of attac, medium power



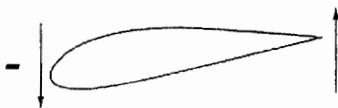
### Medium power

To set the **BUSTER** for medium power, decrease AoA by shortening the A/B cascades and lengthening the C cascade - see the picture 2



**pic. 3**

low angle of attac, low power



To set the **BUSTER** for low power, decrease AoA more by shortening the A/B cascades and lengthening the C cascade - see the picture 3.

Caution: this setting is not recommended in rough winds (danger of luffing)

### ***Caution!***

**By changing the bridle adjustment (AoA), the BUSTERS' S flight character will change and this will alter the "Buster Wind Range" chart.**

**Check out following rule:**

**High force:** wind range will increase by 1 bft. (caution !)

**Low force:** wind range will decrease by 1 bft.

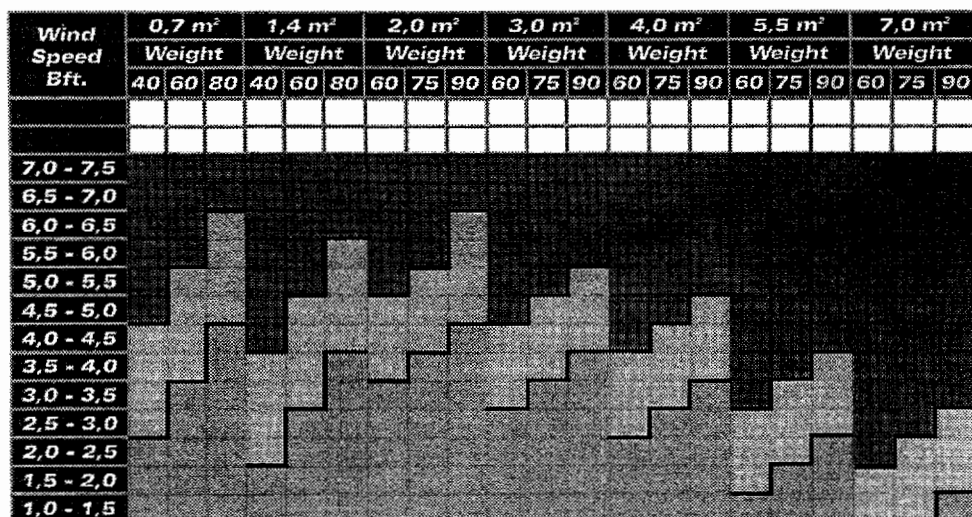
**Final note:** Basic laws of aerodynamics will limit the amount of bridle adjustment on your **BUSTER**. If your **BUSTER** is behaving strangely, land it and make adjustments as shown in picture 1, 2 or 3. This will ensure you and your best buddy have as much fun as possible!

***Enjoy your time, Your PKD Crew***

## Buster Technical Data

	area m <sup>2</sup>		span m		aspect ratio		cells
	open	proj.	open	proj.	open	proj.	
Buster 0.7	0,7	0,55	1,55	1,13	3,46	2,3	16
Buster 1.4	1,4	1,11	2,20	1,60	3,46	2,3	16
Buster 2.0	2,0	1,58	2,63	1,91	3,46	2,3	16
Buster 3.0	3,0	2,38	3,22	2,34	3,46	2,3	16
Buster 4.0	4,0	3,17	3,72	2,69	3,46	2,3	16
Buster 5.5	5,5	4,99	4,62	3,97	3,87	3,16	20
Buster 7.0	7,0	6,35	5,21	4,48	3,87	3,16	20

## Buster Wind Range



 Dangerous Application

 Best Application

 Low Power Application

# PKD

PARACONTROL KITE DIVISION



**Dealer**

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