

HARKEN®

T2™

Patent Pending

Carbo® Block

INSTRUCTIONS

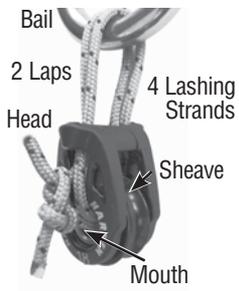
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Specifications

Part No.	Description	Sheave Ø	Max sheet line Ø		Max working load		Breaking load		Replacement Lashing Line
			in	mm	lb	kg	lb	kg	
2698	18 mm single	18 mm	3/16	5	275	125	992	450	HCP1438
2158	18 mm double	18 mm	3/16	5	450	204	1500	680	HCP1438
2161	18 mm single/narrow	18 mm	3/16	5	275	125	992	450	HCP1438

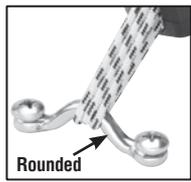
Terms

Planning Installation

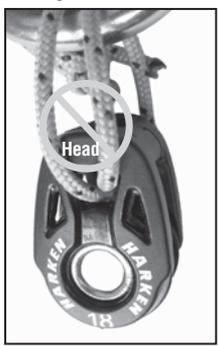
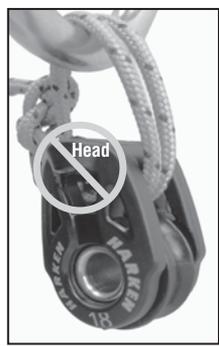


CAUTION! Avoid injury or damage to equipment. Follow these precautions:

1. Lash only to objects with rounded edges. Avoid sharp corners.



2. Always lash to mouth of the block. Head is not strong enough to secure line.



3. Use two laps of supplied line to create four strands to match the maximum working load of the block.

4. Block 2161: Use sailmaker's twine or small zip tie to secure lashing strands to head.



Tying Knots

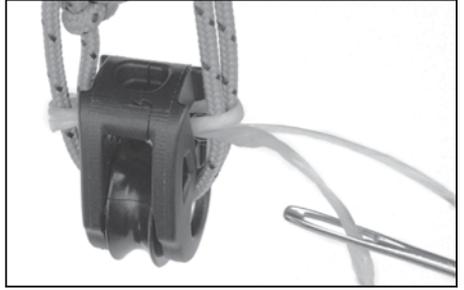
See www.harken.com/knots. Alternatively, consult a good knot tying book or consult a rigger.

Lashing at 0° – Block and Bail In-line

Run line through mouth, through head, around bail, and down on **other** side. Repeat so there are two laps.



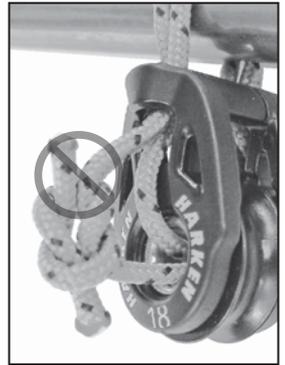
Block 2161: Use small zip tie or needle and sailmaker's twine to secure lashing strands to head.



Tie ends using a Carrick knot or other secure knot. Photo is not intended to teach this knot. Consult knot tying book or see www.harken.com/knots.



Do not tie square knot or "granny knot". These can loosen.



Lashing at 90° – Block 90° to Bail

Run line through mouth, head, around bail, and back on the **same** side.

Run line from mouth through head, around bail, and back on the **other** side for a second lap.

Secure with Carrick knot or other secure knot. Consult knot tying book or see www.harken.com/knots.



Block 2161: Use sailmaker's twine or small zip tie to secure lashing strands to head.

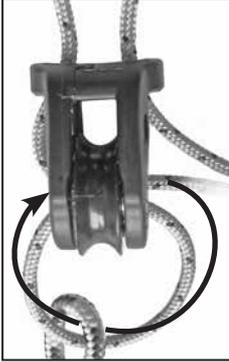


Becket Options

Using Lashing Line as Becket

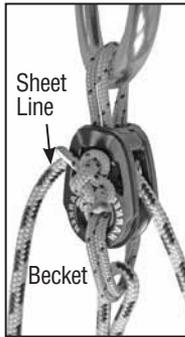
Starting through mouth, run line through head, around bail, through head, and through mouth. Loop line once below block. Loop line a second time forming a becket. Run line through head, around bail, and through mouth. Secure using Carrick knot or other secure knot. Consult knot tying book or see www.harken.com/knots.

Block 2161: Use sailmaker's twine or small zip tie to secure lashing strands to head.



Securing Sheet Directly to Mouth as Becket

Pass sheet through mouth and secure with bowline, splice, or whip line to itself. Consult knot tying book or see www.harken.com/knots.



Reeve sheet line.

Using Sheet as Lashing and Becket

Do not use supplied HCP1438 line. Use a larger, stronger line that exceeds the block's breaking load to account for loss of strength due to weakness of knots, UV damage or chafing. Run sheet through mouth, head, around bail, and back through head. Leave tail below for tying or whipping to long section of line. Run line back through mouth and secure to long section of line. Use bowline knot or whip lines together.

Block 2161: Use sailmaker's twine or small zip tie to secure lashing strands to head.



Securing Block to End of Larger Line

Do not use supplied HCP1438 line. Use a larger, stronger line that exceeds the block's breaking load to account for loss of strength due to weakness of knots, UV damage or chafing. Run line through head, through mouth, and out head.

Secure with a bowline with end whipped to loop so it stays secure. Consult knot tying book or see www.harken.com/knots.



Securing Block to Large Diameter Object

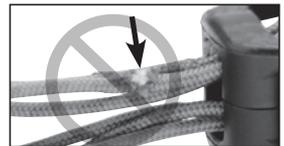
When running line around large-diameter object such as a boom, cross line each time you pass around the object. **Block 2161:** Use sailmaker's twine or small zip tie to secure lashing strands to head. Use twine or zip tie to hold lashing strands crossed.

Important! If lashing line is pushing outwards on head, it can break the block. Check to make sure each lap crosses separately as shown in the photo at left below.



Inspect Line Every Time You Sail

Inspect lashing line for chafe or UV damage every time you sail. **Replace damaged line immediately. Replace line with no visible damage every two-years.** Use Harken replacement line, but if using own line, see "Using Alternate Line, Knots and Splices" and chart on back page for important information to help you select the correct line.



Maintenance

Harken equipment is designed for minimal maintenance. However, some upkeep is required to give the best service and comply with the Harken limited warranty.

Keep your equipment clean and free-running by frequently flushing with fresh water. Periodically clean with mild detergent and water solution. Spin sheaves to distribute soap solution evenly. Flush with fresh water.

IMPORTANT! Exposure to some teak cleaners and other caustic solutions can result in discoloration of part and is not covered under the Harken warranty.

Warranty

For additional safety, maintenance and warranty information see www.harken.com/manuals or the Harken catalog.