

HARKEN®

INSTRUCTIONS

Loop Block

3195, 3196, 3199, 3201

1251 East Wisconsin Avenue • Pewaukee, WI 53072 U.S.A.
 Telephone: (262) 691-3320 • Fax: (262) 691-3008 Web: <http://www.harken.com> • E-mail: harken@harken.com

WARNING! Strictly follow all instructions to avoid an accident, damage to your vessel, personal injury or death. See www.harken.com/manuals for additional safety information.

 = Incorrect. Avoid to prevent accidents.

Parts



- 1) Head
- 2) Sideplates
- 3) Sheave
- 4) Dead-End Post
- 5) Block Mouth
- 6) Screw
- 7) Allen Wrench
- 8) Blue Loctite®



Specifications

Part No.	Sheave Ø	Maximum Working Load (MWL)		Breaking Load (BL)		Max line Ø that fits through mouth
		lb	kg	lb	kg	
3195	57mm	2500	1134	5,000	2268	5mm
3196	75mm	5,000	2,268	10,000	4536	8mm
3199	100mm	7,500	3,402	15,000	6804	11mm
3201	125mm	11,000	4,990	22,000	9977	14mm

You Must Supply

Loop and/or High Strength Lashing Line

Refer to chart above and choose loop and/or high strength lashing that matches or exceeds break strength (BS) of block. **Note:** See chart for maximum line diameter that will fit through mouth.



WARNING! Webbing or smaller lashings can be damaged by being pinched between post and sideplate. Damaged webbing or lashings can part suddenly under load. Use only loops when terminating at dead-end post.



WARNING! Knots weaken line considerably. Consult qualified rigger or line manufacturer for advice on securing line. Use high strength loops or consult rigger for recommendations on lashing. Using the wrong line or securing the line improperly can cause an accident.

Small Control Line Included

4' (1.2 m) line included for lashing to head.

Block Part No.	Replacement Part No.	Line Length	Block Part No.	Replacement Part No.	Line Length
3195	HCP1438	2 mm	3199	HCP1419	2.5 mm
3196	HCP1419	2.5 mm	3201	HCP392	3 mm

Loop Block Replacement Part Numbers

Part No.	Sheave Ø	Sideplate A	Sideplate B
3195	57mm	H-43623	H-43624
3196	75mm	H-43456	H-43457
3199	100mm	H-43757	H-43758
3201	125mm	H-43814	H-43815

Part No.	Sheave w/Side Balls	Roller Cage Assembly
3195	H-21635B	HBB85
3196	H-21550B	HBB86
3199	H-22123B	HBB87
3201	H-23750C	HBB88

Part No.	Screw	Dead-End Post
3195	HFS796	H-43625
3196	HFS806	H-43461
3199	HFS816	H-43759
3201	HFS814	H-43816



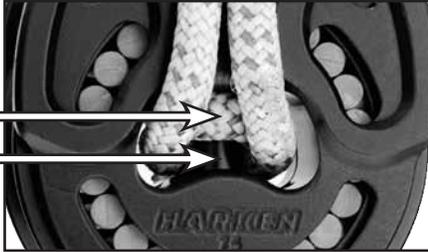
Terminating to Dead-End Post



WARNING! Webbing or smaller lashings can be damaged by being pinched between post and sideplate. Damaged webbing or lashings can part suddenly under load. Use only loops when terminating at dead-end post.

Terminating to dead-end post lets you attach block to a closed bail such as a padeye.

Loop
Dead-end post



1. Remove screw..



2. Remove dead-end post.



3. Insert loop into block mouth as shown.



4. Pass loop ends through mouth so loops extend beyond block's sideplates as shown.



5. Open sideplates without pulling line through block.



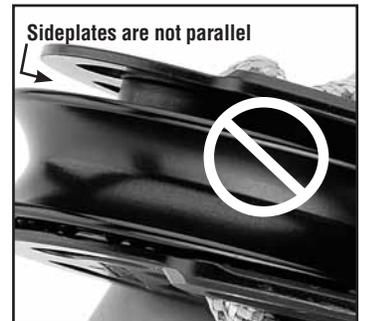
6 Part legs of loop and insert dead-end post. Make sure dead-end post is seated straight in sideplate. Put sideplates together.



Dead-end post



WARNING! If sideplates are angled to one another, dead-end post is not seated correctly. This will considerably weaken the block so it can easily break under load. Block sideplates must be parallel to one another when assembled.



7. Pull loops to seat ends on dead-end post.



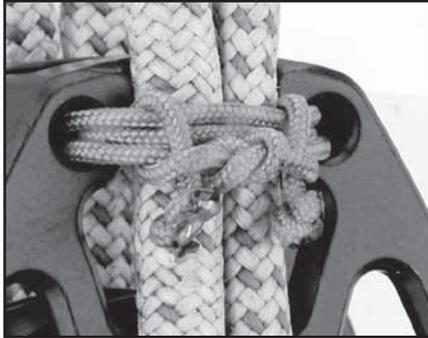
8. Reassemble block using blue Loctite® on screw.



9. Lash loop to head of block with small control line using a Carrick bend or a square knot and run tail up behind wrap, then down, and under itself on each side of knot. Pull tight to secure. For knot tying resources see www.harken.com/knots.



10. Further secure stop knot by carefully melting line ends with a hot knife.



WARNING! If lashing comes loose, block can flip and cause line to jam, resulting in loss of control. Inspect lashing often and redo if necessary.

If lashing comes loose block can flip so that sheet rides off sheave.



Terminating Loop Outside Block or Using Lashing

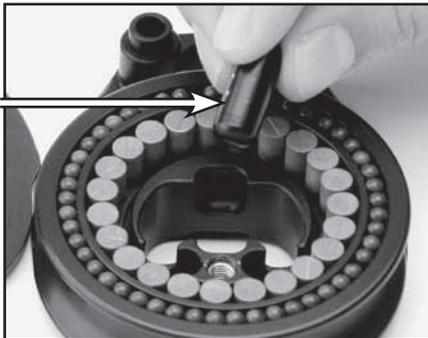
If terminating line outside block or lashing using multiple strands of smaller-diameter line you must remove the dead-end post.

1. Use allen wrench to remove screw.



2. Remove dead-end post.

Dead-end post



WARNING! Attaching line to block head will considerably weaken block so it can easily break under load. Attach loop/lashing only through mouth of sheave.



3. Re-assemble block. Use blue Loctite® on screw.



4. Lash loop to head of block with small control line using square knot. Run line ends up and behind lashing, then down and under itself on each side of knot. Pull tight to secure.



5. Secure stop knot by carefully melting line ends with a hot knife.





WARNING! Using a loop in a choker style weakens the loop connection. Do not use choker style connection.

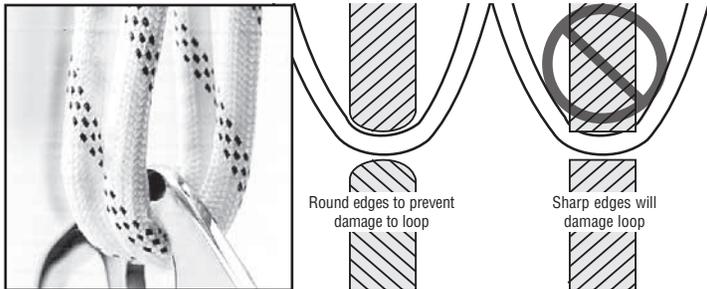


ALL INSTALLATIONS Anchor Point Chafing or Cutting



WARNING! Loops or lashings running over a sharp edge can cause part to break under load. Attach to fitting with a rounded edge.

Loops must be attached to round bails such as those found on padeyes or pins. Sharp edges on many perforated toerails will cut loop, severely weakening it. When loop is attached to a plate, it must be at least 1/4" thick and have rounded edges to keep loop from being damaged.



Inspect Parts Every Time you Sail



WARNING! Failure to inspect and correct block and loop or lashing may result in block breaking under load. Inspect parts each time you sail. If parts are under load during long passages it is important to inspect them carefully while in use.

1. Inspect block to make sure that screw is secure. If screw is loose, remove it, use blue Loctite® to hold it in place and retighten.



2. Inspect sideplates to make sure they are parallel to each other. If they are angled dead-end post may not be seated. Take block apart, install bail correctly and secure with screw and blue Loctite®.



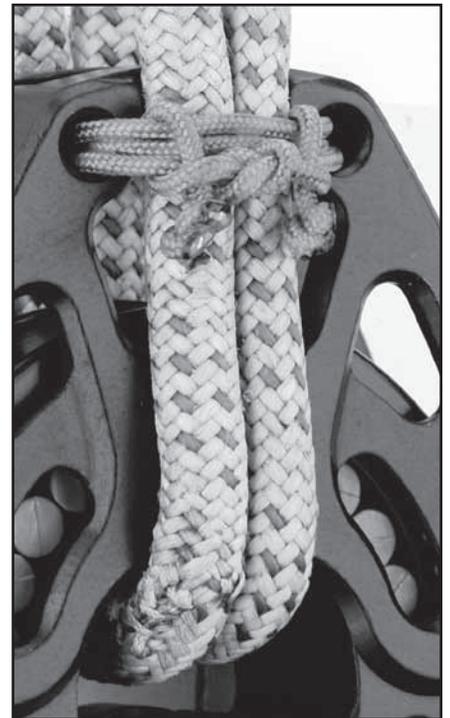
3. Inspect loops and lashings. Replace if there are signs of wear or if the colored tracer fades from UV damage. Pull loop out of mouth and inspect loop/lashing carefully for any signs of wear, UV-damage, fatigue or strand separation. Replace loop if it shows signs of UV-damage or wear.



WARNING! Failure to replace damaged or weakened parts can cause part to break under load. Replace all loops and lashings every year or if there is any sign of wear, UV damage, fatigue or strand separation. If in doubt replace. Consult chart to match strength of loop/lashing to block and load.



4. Inspect lashing at head of block to make sure knot is holding tightly.



Maintenance

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

Cleaning: Flush blocks and loops/high strength lashing lines thoroughly with fresh water. Periodically, disassemble the blocks and clean with detergent and fresh water. When assembling block, make sure screws and holes are dry. Use blue Loctite® to secure screw before assembling.

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.