

Darrell Harp Enterprises, Inc.

PO Box 140 • 819 4th Street NW

Red Bay, AL 35582

Phone: 256-356-4424 • Fax: 256-356-8300

Email: darrellh@bellsouth.net • Website: www.darrellharp.com

USER MANUAL & PARTS BREAKDOWN

RIGID SHANK CULTIVATOR MODEL DHC-1R & DHC-2R

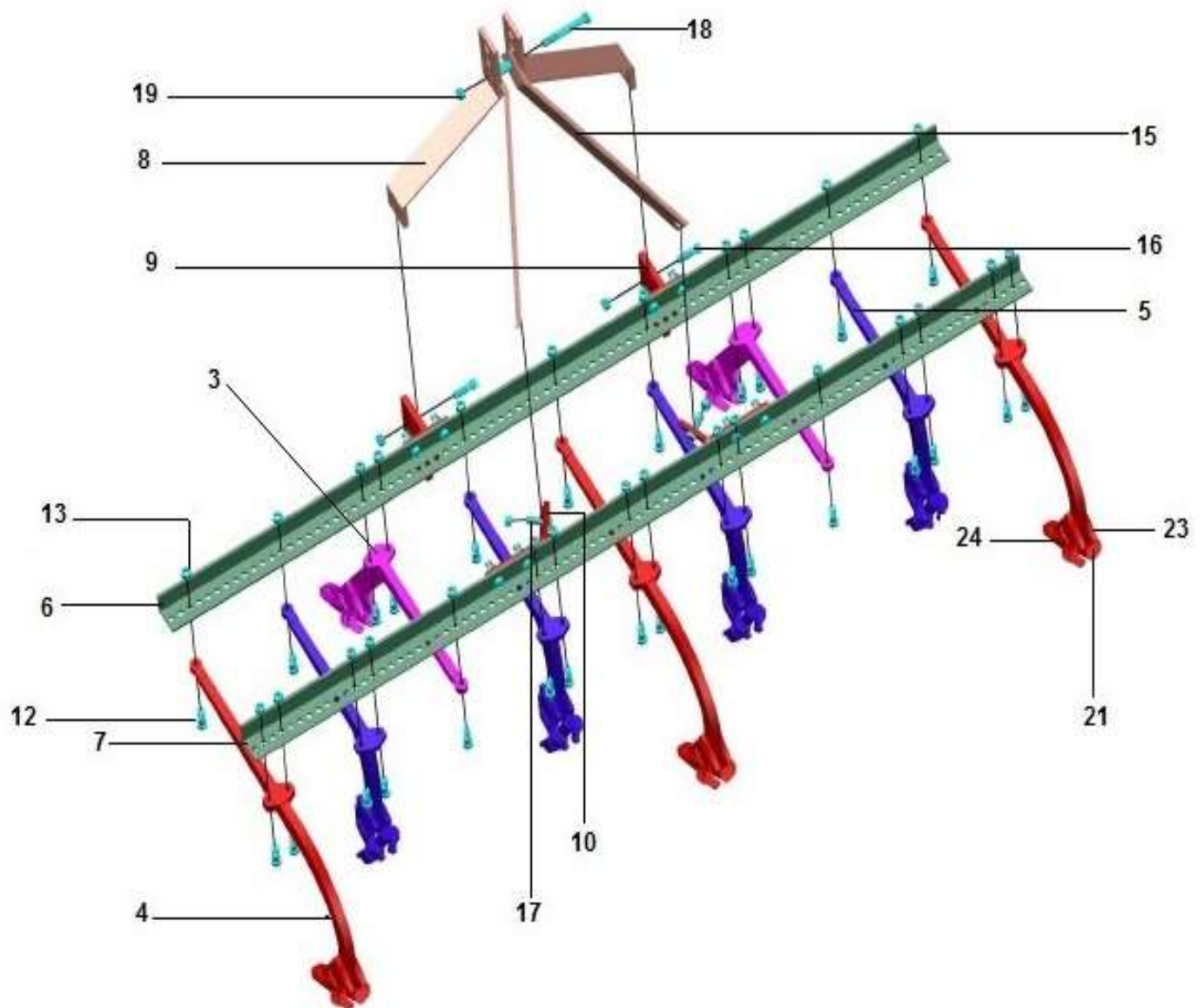


The DH Rigid Shank Cultivator comes with 5-shank (1-row), 9-shank (2-row). On these rigid cultivators you can install fertilizer & seed drill attachments. The rows are adjustable to choose the right working space. The shanks are not for tillage purpose as they are not long enough and can be broken on hard surfaces. This rigid shank cultivator does not come with points but you can fix any kind of points according to your requirement. Typically used points are 7"x10" and 2 ½"x6". Covington planter & fertilizer spreader can be attached with this cultivator.

SAFETY INSTRUCTIONS:

- **The DH Rigid Shank Cultivator** is intended for normal agricultural use and may be operated by any person with a general knowledge of using agricultural machinery. On these rigid cultivators you can install fertilizer & seed drill attachments.
- Before starting to use the cultivator, familiarize yourself with the machine, its operation and the instruction manual. The cultivator must not be operated until you have familiarized yourself with its operating and safety instructions and ensured that you completely understand them.
- Follow all warning and operational instructions affixed to the cultivator. These will help you avoid accidents during the usage.
- Beware of getting crushed between moving parts of the machine while connecting the cultivator to the tractor or when lifting or lowering it.
- Stay clear of the cultivator and in particular its side-block, while the cultivator is connected to the tractor.
- During usage, make sure no one is near the operating area.
- Riding on the top of machine during transportation or use is strictly prohibited.
- Before you begin to use the cultivator, make sure that both side-blocks have been lowered to their extreme positions.
- Never use the cultivator if it is broken as a broken structure can easily collapse and cause a risk of injury.
- Raising or lowering the side-blocks of the cultivator is only allowed when the machine is standing in position.
- While driving the machine on public roads, follow all regulations. Before setting out, make sure that all items of equipment required such as reflectors, warning triangles, and lights are properly in place and operational.
- Do not allow anyone to use the cultivator without familiarizing themselves with its safety and operating instructions and ensuring that these instructions have been correctly understood.
- Before beginning any maintenance, cleaning, lubrication, installation or adjustment work, always make sure that the power take-off and the hydraulics have been switched off and that the engine has been stopped. Remove the ignition key to prevent the tractor or the implement from setting out inadvertently.
- During maintenance work, the side-blocks must be in their lowest position and the machine must be firmly supported on an even surface.

DH RIGID SHANK CULTIVATOR



RIGID SHANK CULTIVATOR

S.NO	PART #	DESCRIPTION	DHC-1R	DHC-2R
1	DHC-1R	1 ROW RIGID SHANK CULTIVATOR	5 SHANKS	-
2	DHC-2R	2 ROW RIGID SHANK CULTIVATOR	-	9 SHANKS
3	DHC-S1-MSA	MEDIUM SHANK ASSEMBLY	1. Pcs	2. Pcs
4	DHC-S1-LSA	LONG SHANK ASSEMBLY	2. Pcs	3. Pcs
5	DHC-S1-SSA	SHORT SHANK ASSEMBLY	2. Pcs	4. Pcs
6	DHC-SI-C001	FRONT FRAME	ANGLE 65 x 8 mm	ANGLE 65 x 8 mm
7	DHC-S2-C001	REAR FRAME	ANGLE 65 x 8 mm	ANGLE 65 x 8 mm
8	DHC-C002	FRONT LINKAGE	FLAT 75 x 12	FLAT 75 x 12
9	DHC-C003	FRONT BRACKET	FLAT 125 x 12 mm & FLAT 100 x 16 mm	FLAT 125 x 12 mm & FLAT 100 x 16 mm
10	DHC-C004	REAR BRACKET	FLAT 50 x 16 mm	FLAT 50 x 16 mm
11	DHC-C005	CARRIAGE BOLT 7/16" x 3"	15. Pcs	27. Pcs
12	DHC-C006	BOLT 7/16" x 2"	15. Pcs	27. Pcs
13	DHC-C007	NUT 7/16"	30. Pcs	54. Pcs
14	DHC-C008	WASHER 7/16"	25. Pcs	45. Pcs
15	DHC-C009	REAR LINKAGE	FLAT 50 x 12 mm	FLAT 50 x 12 mm
16	DHC-C010	BOLT 5/8 x 2"	8. Pcs	8. Pcs
17	DHC-C011	BOLT 5/8 x 1.5"	4. Pcs	4. Pcs
18	DHC-C012	BOLT 5/8 x 4.5"	1. Pcs	1. Pcs
19	DHC-C013	NUT 5/8"	13. Pcs	13. Pcs
20	DHC-C014	WASHER 5/8"	13. Pcs	13. Pcs
21	DHC-C015	STEM	5. Pcs	9. Pcs
22	DHC-C016	SPECIAL WASHER	10. Pcs	18. Pcs
23	DHC-C017	RIGHT CUFF	5. Pcs	9. Pcs
24	DHC-C018	LEFT CUFF	5. Pcs	9. Pcs

ATTACHING THE CULTIVATOR TO THE TRACTOR

Attach the planter & the fertilizer spreader with the rigid cultivator as per the instructions of the supplier company.

1. Place the cultivator properly levelled on the flat piece of the land.
2. Reverse the tractor to the cultivator (Do not drag the cultivator to the tractor).
3. Attach the left arm of the tractor to the cultivator first.
4. Attach the central arm to the cultivator. To attach, turn the screws on both side to an equal length. If the arm is too short or too long, turn the screw to adjust both at the same time until aligned with the hole on the central arm.
5. Attach the lower right arm; Turn the screw until the mounting pin is at the same level as the hole on the tractor arm. If the gap between the hole and the mounting pin is too close or too distant, turn the control arm in or pull it away to an appropriate distance. You may have to adjust both height and distance at the same time. When the hole at the tractor arm and mounting pin are even, insert the pin in the hole and lock it with the lynch pin.
6. After attaching the cultivator, lift it and adjust the control arm parallel to the ground. When you look from both rear and sideways the points should all be touching the ground uniformly.

OPERATION CARE & MAINTANANCE OF CULTIVATORS

All the teeth of the tines should be set at equal depth. To do this, place the cultivator on level ground and see that all the teeth touch the ground. If they are not touching, then shank by shank loosen & fasten the bolts.

Before commencing work with cultivator, check it for loose bolts and nuts and fasten them properly. After having taken all these precautions, run the cultivator for one hour and then inspect it once more for any loose parts.

Never turn or reverse your tractor while cultivator is plowed deep in field. This will twist the assemblies out of alignment and damage them extensively.

Reverse or replace the shovel point when worn out. Delay may result in wearing out of the tines which will result in expensive repair/replacement. Avoid use of extra wide shovels as they do not improve tillage quality but only put extra load on the tractor and also result in extra fuel consumption.

Before storage, thoroughly wash down and clean all the dirt from the implement or rust will form under. Also, apply a thin layer of used oil or grease.