OPERATION MANUAL

S-20

S-20: S-Series Handheld Hydraulic Cutter

Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

Huskie TOOLS
A SPARTACO COMPANY

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THANK YOU...

for purchasing a Huskie Tools product. Our mission is to supply the finest steel cable connecting and cutting tools and cable-related products to the transmission and distribution markets. Huskie Tools products represents the state-of-the-art tools and are dependable & safe. Trust, integrity, teamwork and mutual respect - these words are something we take to heart here at Huskie Tools.

Please take the time to read this manual carefully to learn how to correctly operate and maintain your tool.

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Warranty

Huskie Tools products carry a warranty that makes us a leader in the tool industry. No other manufacturer dares to back its tools as we do.

All Huskie REC-SERIES battery operated products carry a 5 year warranty. The ECO-SERIES battery operated products carry a 1 year warranty. The BP-80 & BP-84 batteries carry a 5 year warranty from the date stamped on the battery. The BP-82 battery carries a 1 year warranty.

PRODUCT WARRANTY

REC-Series battery operated products	5 Years
ECO-Series battery operated products	1 Years
Batteries (BP-80, BP-84)	5 years/ (BP-82) 1 year
Chargers (CH-90, CH-94)	5 Years

The warranty does not cover any damages incurred from a Huskie tool including damages to property, bodily injuries and lost wages resulting from such injuries. This warranty solely covers the repair or replacement of tools supplied by Huskie. These remedies are exclusive, and the total liability of Huskie Tools, LLC whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the tool. In no event shall Huskie Tools, LLC be liable for consequential, incidental or special damages.

HUSKIE TOOLS, LLC MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

Huskie reserves the right to determine all warranty claims. Huskie will not warranty tools containing parts or batteries not originally supplied by Huskie. Failure due to misuse, improper maintenance, misapplication, not following instructions or warnings, abuse or repairs attempted by anyone other than Huskie Tools, LLC, or an authorized service center renders this warranty null and void.
Repair and Warranty Claims
All claims must be sent to Huskie for inspection and authorization. A Return Goods Authorization (RGA) is required before shipping tools to Huskie. Secure the authorization by telephoning or writing to Huskie's main office with details of the claim. Non-warranty repairs are handled using the same procedure. Repairs exceeding 50 percent of the cost of a new tool will be advised before repairs are made.

Payment Terms
Upon credit approval Huskie's standard payment terms are net-30 days. Visa, Mastercard, Discover and American Express are also accepted.

Freight
All Huskie tools are FOB, Glendale Heights, Illinois. Goods will be shipped pre-paid and added, unless otherwise specified. Freight shipments over $17,000 are pre-paid.

Quotations
Special quantity quotations should be phoned in to discuss the scope of your tool requests.

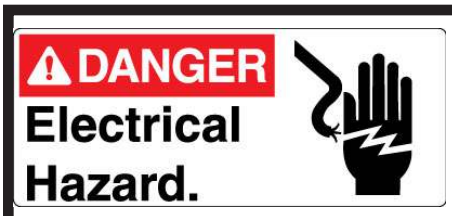
Complete Support Services
Our customers have direct access to us for training, service, and problem solving. As specialists in tools, we maintain a trained repair staff and a large stock of parts. This contrasts with many tool suppliers who carry tools as a sideline without offering support services. Here are some reasons why our customers love to do business with us:
- Quick delivery
- We maintain inventory at our headquarters.
- Training and troubleshooting services.
- Fast repair service.
- Design and engineering service for special tool needs.

Safety Alert Symbol:

This safety alert symbol indicates a potential personal injury hazard; it is not used for messages related to property damage only.

Wear eye protection:

when operating this tool. Failure to wear eye protection could result in serious eye injury from flying debris.



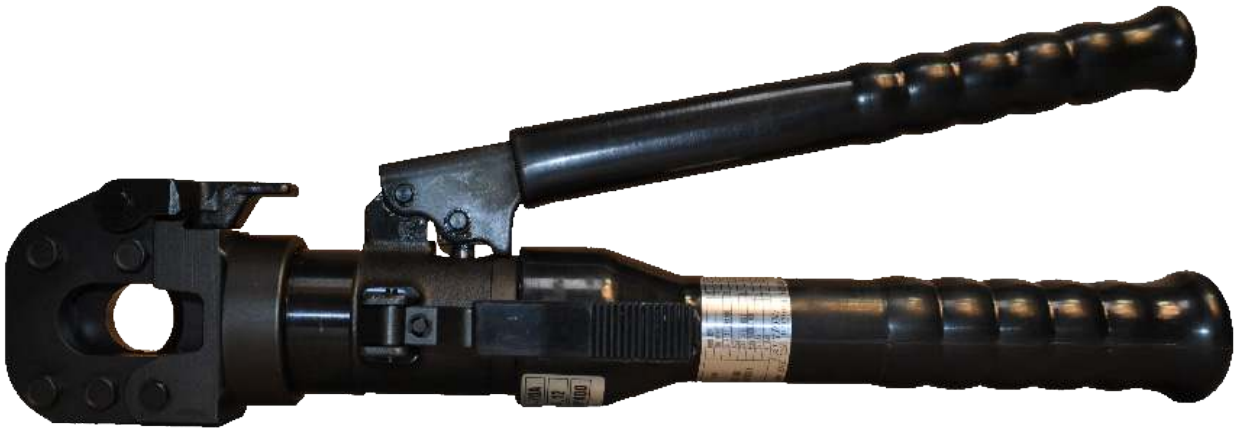
Electric Shock hazard:

Use proper personal protective equipment when using this unit on or near energized electrical lines.

Pinch Point Hazard:

Compression Dies at high force can cause severe personal injury. Keep all body parts away from moving parts of the tool while operating.

KIT INCLUDES



Huskie's **S-Series** tools cut anything from guy wire* to anchor rod and most overhead and underground cables. The S-series cutters are portable, lightweight, and made to last years under the toughest field conditions. The S-40B and S-85 feature a two stage pumping piston for rapid advance.

The new S-240CC, S-32CC and SP-24CC hydraulic cutters were specially engineered to cut the toughest EHS guy wire, ground and anchor rods. The SP-24CC is the remote head version, which requires an external 10,000 psi pump in order to operate. The anvil style, center cut blades eliminate jamming problems common to shear style cutters, and the blades are easily replaced in the field. The tools are made of high grade steel and have rubber handle grips. All tools are black zinc oxide coated to help reduce corrosion. A flip-top latch opens the tool jaw to easily accept cables and wires. The head can be rotated up to 180° to facilitate easy wire positioning and operator leverage.

Consult the chart below to pick the proper cutter for your needs. If there are any questions about capacities, or special applications please contact Huskie Tools.

***NOTE:** DO NOT CUT EHS GUY WIRE. FOR EHS GUY WIRE SPECIFY S-240CC, S-32CC OR THE REMOTE HEADS SP-24CC OR SP-32CC1.

S-20

Specifications	
Output	4.4 Ton
Weight	6 lbs
Size	15" L
Jaw Opening	.75"

Cutting Capabilities	
Wire Rope	20mm, 3/4"
Soft Steel Bolts	17mm, 11/16"
Reba, Ground & Anchor Rod	13mm, 1/2"
Cu & Al Wire	20mm, 3/4"
ACSR	20mm, 3/4"
Standard Guy Wire	14mm, 1/2"

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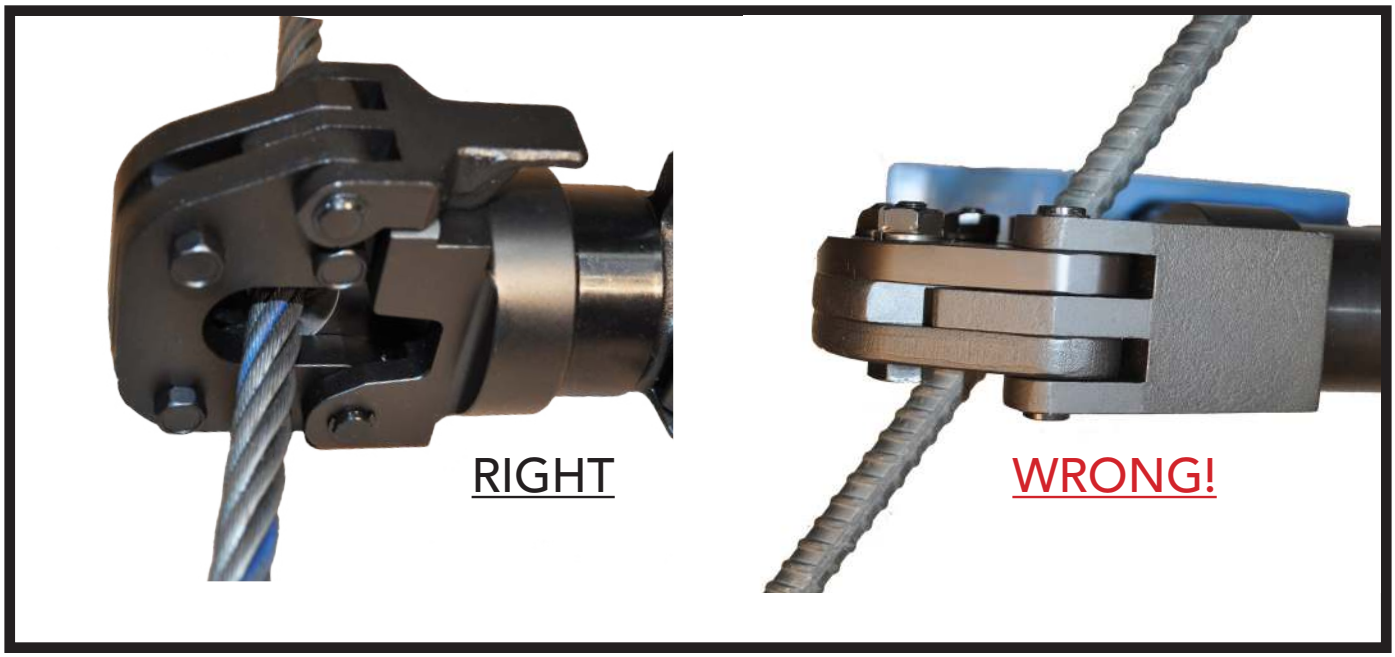
CUTTING

1. Before cutting, make sure the material being cut is within the proper cutting capacity of the tool being used.
2. Open cutter head by lifting latch or removing lock pin, depending on the model being used.
3. Insert material between cutter head and blade and secure latch. It is important that you check the latch for proper engagement before continuing with the cut. Failure to secure the latch can result in severe tool damage and personal injury.
4. Align the material at a 90 degree angle to the blade. This will ensure a proper cut with minimal distortion. If the material is cut at any other angle, severe blade damage may occur. Refer to dia gram on page two for proper alignment.
5. Proceed by pumping handle to advance blade. Once blade has made contact with the material, check alignment once again for proper angle. Continue to pump handle and cut material.
6. Once the cut is made, the release lever on the side of the tool body can be depressed to retract the blade. On the model S-85 cutter, the pump handle must be rotated 90 degrees clockwise and then closed to depress release pin located under the handle.
7. These cutters do not have a by-pass cartridge like our compression tools, so they should be released once the cut is made and not continued to be advanced. If the tool is advanced under pressure with no load, it is difficult to release the blade. Refer to the troubleshooting on page three if this condition occurs.
8. Always wear eye protection and any other specified safety equipment when cutting. Be sure surrounding area is clear, as hardened metals may fly apart when severed.



OPERATING PRECAUTIONS

1. Stay within the maximum limits of each tool as listed on page 6.

2. Try to keep the cutter head clean. When cleaning, use a spray lubricant to avoid a build up of dirt and sand which will damage the cutter head.

3. Stop pumping when the blade reaches the extreme end of its advance. If the material being cut (usually wire rope or soft cables) seems to be cut but does not break free of the tool, this indicates that the blade is jammed on a small piece of cable. Refer to the "Troubleshooting Guide".

4. All Huskie tools require proper care. Occasional cleaning and degreasing in solvent, and sharpening blade and cutter head, will keep these tools operating without problems.

5. The most common problem encountered is blade breakage. Ninety-nine percent of all breakage occurs because the cutter head is not securely latched before cutting. If the latch is not secured, the blade will push open the cutter head and damage both the body head and blade. This causes the outside ear of the blade to break on an angle. In some cases the whole cutter head may crack in half. Cutting material that is not specified may also cause blade damage. In time these blades will fatigue and crack and must then be replaced.

6. There may be a residue of oil present on new tools when they are removed from the original ship ping container. This is to protect the tool from corrosion during shipment and storage, and should not be considered defective. The tool can be cleaned with a spray degreaser or soapy water.

7. If tool is jammed, avoid beating directly on the tool with a hammer, especially avoid flattening the piston cylinder. Use a hammer in conjunction with a block of wood or soft material to free the blade.

8. All tools can be reconditioned and overhauled. Call factory and obtain an RGA # for returning tools.

9. If the cutters are used under water, wash them down and lubricate after each use. This whole operation takes less than five minutes. It may be helpful to paint new tools with a light color, corrosion resistant paint.

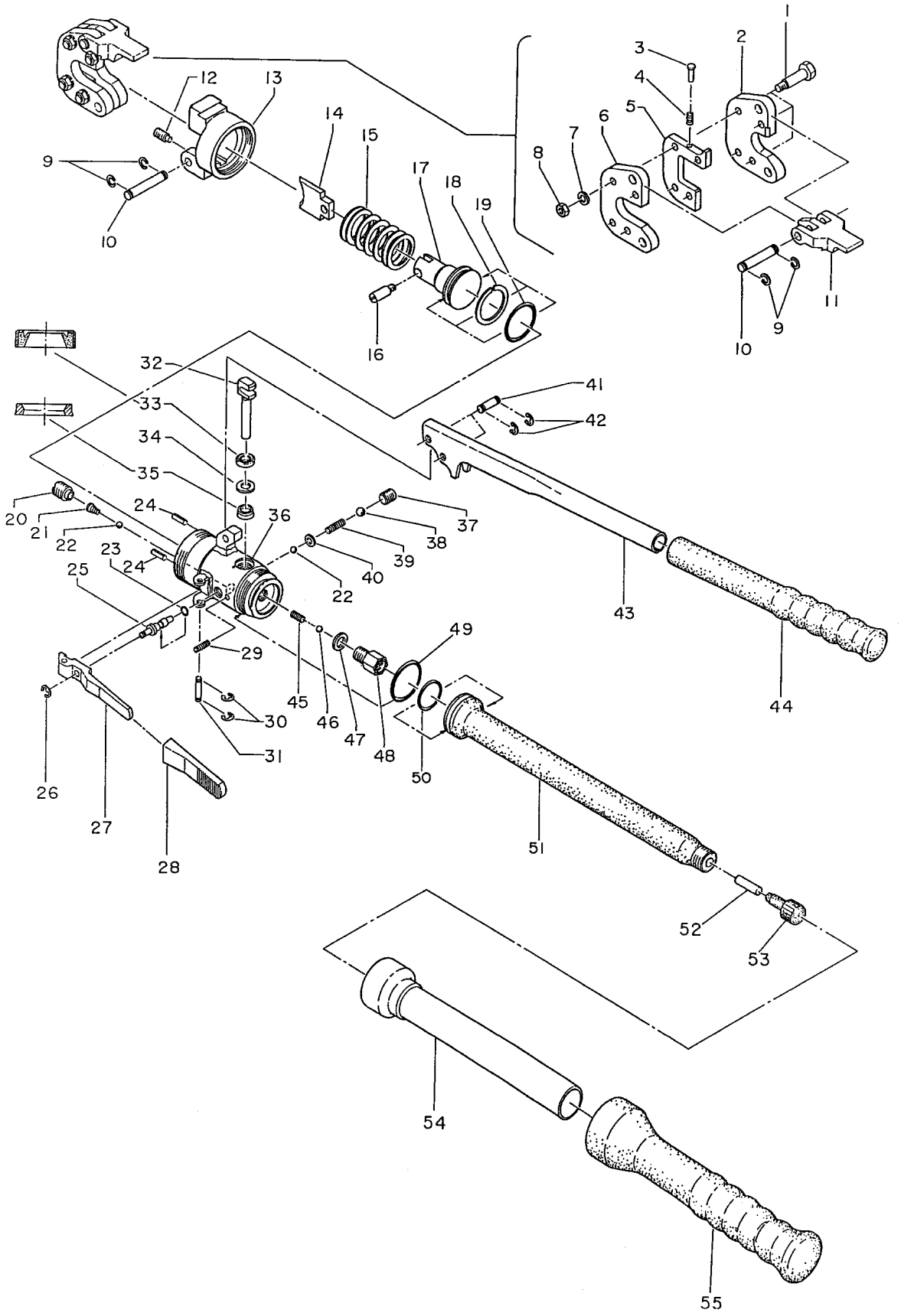
10. Always return tools to their carrying bag to protect them from sand and dirt. Extra bags can be purchased.

11. Always carry a spare blade, preferably attached to the carrying bag.

12. Use clear hydraulic fluid MV-32 available from your dealer or HTI.

13. When cutting, keep area clear of spectators as hardened metals may fly apart when severed.

14. Always cut the material at a 90 degree angle to the blade. Any other angle may cause the blade and head shear to fracture.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Huskie TOOLS

PARTSLIST

NO.	DESCRIPTION	CODE	QTY.
1	Shoulder Bolt	16-03B	4
2	Head Shear	20-02	1
3	Slide Pin	20-71	1
4	Spring (144)	85-37	1
5	Spacer	20-70	1
6	Main Head	20-04	1
7	M6 Lock Washer	16-02	4
8	M6 Hex. Nut	16-01	4
9	CE-8 Snap Ring	16-09	4
10	Pin (46)	16-10	2
11	Latch	16-11	1
12	M5 X 10 Screw (D.P.)	55A-11	1
13	Body Head	20A-01	1
14	Blade	20-07	1
15	Spring (75)	16-17	1
16	Blade Screw	16-19	1
17	Ram	16-21	1
18	P-29 Back-Up Ring (B.C.)	16-22	1
19	P-29 O-Ring	16-23	1
20	Valve Screw (3)	16-24	1
21	Spring (2)	16-25	1
22	7/32” Ball	16-26	2
23	P-3 O-Ring	16-36	1
24	2.5 X 10 Dowel Pin (D)	40A-03	2
25	Release Valve Stem	16-35	1
26	E-3.2 Snap Ring	16-33	1
27	Release Lever	20-08	1
28	Release Lever Insulation	20-09	1
29	Spring (77)	16-37	1
30	E-2.5 Snap Ring	16-28	2
31	Pin (26)	16-27	1
32	Pump Piston	16-47	1
33	VC8 Oil Seal	40A-05	1
34	P-8 Back-Up Ring (B.C.)	85-33	1
35	PS-8 Pent Seal	16-44	1
36	Body	20A-02	1
37	M10 X 10 Screw (F.P.)	16-41	1
38	9/32” Ball	16-40	1
39	Spring (76)	16-39	1
40	M3 Flat Washer	16-38	1
41	Pin (47)	16-29	2
42	CE-6 Snap Ring	16-30	4
43	Pump Handle	16-31	1
44	Pump Handle Grip	20-10	1
45	Spring (4)	16-48	1
46	3/16” Ball	16-49	1
47	Copper Gasket (6)	16-50	1
48	Suction Valve Screw Ass'y	16-51	1
49	S-36 O-Ring	85-51	1
50	P-26 O-Ring	16-55	1
51	Oil Reservoir (4)	20A-03	1
52	Magnet	ROB-25	1
53	Reservoir Cap	410-55	1
54	Body Handle	16-63	1
55	Body Handle Grip	20-11	1

1. Problem: Small wire strands or pieces of cable or debris get jammed between the cutter head and blade, not allowing the blade to retract.
Solution: A) Hold release lever down while tapping on the ram with a block of wood and a ham mer. If this does not work or tool continues to hang up, proceed to step B.
B) Remove blade screw and release the ram. Then disassemble cutter head and remove burs from both blade and head shear, using a flat grinding stone on the rolled edge. Do not sharpen like a knife - leave cutting edge flat!

2. Problem: Blade is advanced under pressure with no load and the release lever
Solution: A) Use both hands to depress lever using body weight and the ground or other strong surface for support. If this does not work, proceed to step B.
B) Lay tool flat on the ground or other strong surface and hit release lever with a block of wood and a hammer to release pressure.

3. Problem: Tool will not advance.
Solution: A) Remove body handle and check oil reservoir for proper fluid level. The oil should be the top of the reservoir when the cap is removed. Be sure the tool is fully retracted before removing cap.
B) After storing for a long period of time, or occasionally when the tool is new, a check ball may be stuck not allowing it to advance the blade. Invert the tool and rap the cutter head sharply on the ground. Do this several times, then pump handle to advance the blade.

MAINTENANCE AND INSPECTION

1. Daily maintenance is required to ensure that the tool is kept in good working condition.
2. Sharpen blades occasionally with a sharpening stone on the back side of the blades to remove any burrs that may occur.
3. Do not store the tool in a humid environment.
4. Wipe away any excess oil with a soapy cloth.
5. Provided that maintenance of the tool is carried out regularly, the tool should provide many years of service.
6. Should you experience any difficulty with the operation and maintenance of this tool, contact Huskie's technical support department at 1-800-860-6170.

NOTES

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