PARTS LIST AND INSTRUCTIONS FOR USE OF

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AUTOMATIC
HEAT-CONTROL

CALF DEHORNER

Catalog No.
X50 Dehorner
Supplied complete
with Soldering Tip
216 Watts,
110-120 volts AC only.
Shipping weight 23/4 lbs.

CAUTION - Do not use Copper or Steel Wool
so clean head. A short may be caused by particles
dropping into the instrument. Emery cloth, and paper
or a wire brush is recommended.

WHY CALVES SHOULD BE DEHORNED

Horns are dangerous and destructive. They cause enormous losses of meat and milk and are a constant threat
to the safety of humans and other animals. Dehorned
cattle require less room at feed bunks, feed better and are
more easily managed. All branches of the livestock indus-
try recognize that horns have NO BENEFICIAL value
but do present a lot of hazards and should be removed
while calves are young. Dairymen have been searching for years for a simple humane way to dehorn cattle. Many dairymen will not
milk cows that have horns, contending that horns cause
lowered milk production and numerous goring injuries
to bodies and udders. Dehorned dairy cattle look better
and are easier to manage, feed and milk. Cattlemen (Beef
and Dairy) throughout the country agree that the ideal
time to dehorn is during early calfhood. Dehorning of
mature animals causes losses in weight and production
due to shock, loss of blood, infection, going off feed, etc.
All these losses are eliminated when animals are de-
horned as calves with the new Rhinehart Electric Dehomer.

ADVANTAGES OF ELECTRIC DEHORNING

1. There is no loss of blood and no severe shock during
or after dehorning.
2. Calves show no ill effects from this method of dehorn-
ing, such as going off feed, scours or listlessness, etc.
3. Electric dehorning is safe, fast and certain. Only a few
minutes are required for the entire operation.
4. Electrically -dehorned calves do not have to be isolated.
There is no irritation causing calf to rub or bruise its
head, and no risk of injury to eyes, udders or other body
parts of other animals.
5. Dehoming with the Rhinehart Electric Dehomer can be
done any month of the year without danger of colds or screw
worm attack. There is no open "live flesh" wound.

GENERAL INFORMATION

The Rhinehart Electric Dehomer will do a good dehorning job
on any calf that does not have a horn larger at the base than
the inside diameter of the Dehoming ring (3e in. 12 in.
(See Other Side)

A dry scab will form over the seared area. The scab and horn button will later drop
off. This will take several weeks. Let it heal off-don't pull it of.

The Dehorner should be applied for at
least 10 seconds to make sure ALL horn
cells in hair line around the horn base are
killed.

Electric dehorning is preferred over other
methods. It is safe, fast, and efficient. De-
horn calves as soon as horn button can be
located—the younger the calf the better.

RHINEHART DEV. CORP.
5345 COUNTY ROAD 68 - SPENCERVILLE, IN 46788

We guarantee every item to give satisfactory service or we will replace or refund your money.
tapered inside diameter.) Dehorning should be done as soon as the horn button can be located. The younger the calf, the less effort and time required for a good dehorning job.

The X50 reaches the proper high temperature (over 1,000 degrees) in a few minutes after it is plugged into the electric outlet. It has automatic heat control for the correct, steady heat at all times. This high, controlled heat kills all the horn cells around the base of the horn. These cells extend out from the horn base \( \frac{1}{4} \) to \( \frac{3}{8} \) of an inch, depending on the age of the calf.

**CONTROL OF CALF WHILE MORNING**

There are several ways to hold the calf while dehorning: A calf two to four weeks old may be backed into a corner. Then straddle its neck, bending the head over your left knee to treat right horn, and over the right knee to treat left horn. The calf can be securely tied with halter or rope. A corner of the pen should be used to restrict the calf's movement. If more than one person is available, the calf can be thrown as when branding.

**HOW TO USE X50 DEHORNER**

First make certain that the heat control lever, located between the housing and the dehorning tip, is set at the letter "D" (see arrow, Fig. 1—lever should be set at "S" when soldering). Then plug Dehorner into any 110 volt AC outlet. IMPORTANT—Do not use Dehorner on DC (direct current). Allow from 6 to 7 minutes for dehorning ring to heat to cherry red color. It is not necessary to pause during dehorning. The thermostatically controlled element maintains the proper, even, steady heat at all times regardless of the number of calves dehorned in succession. The Thermostat also controls the heat during any period when the Dehorner is plugged into socket but not actually being used. Pen calves near the electric outlet so they can be reached without disconnecting dehorner cord from outlet during dehorning. (Use good quality 16 or 18 gauge extension cord if one is needed.) Apply Dehorner firmly, rotating handle of instrument slightly to make certain the high temperature is applied to ALL horn cells in hair line around the horn base for at least 10 seconds. Over-application is better than under-application. You can accurately check the time by counting from 1,000 and 1, 1,000 and 2, etc., up to 1,000 and 10. Then, remove the Dehorner. The area around the base of the horn should now be a dark copper color. If all the area around the base of the horn is not a dark copper color, apply the Dehorner again for a few seconds. Do not remove horn button, or apply medication of any type. A dry scab will form over the area treated. The scab and horn button will drop off in four to six weeks leaving a smooth, well-healed area.

**INTERCHANGEABLE SOLDERING TIP**

A \( \frac{7}{8} \) inch diameter soldering tip, Cat. No. 06824 is included with each X_50 unit. This attaches to the dehorning tip, making the X50 usable as a conventional soldering iron as well as a dehorner. The soldering tip included with this Dehorner is attached by means of a slide clip. To attach soldering tip to Dehorner insert round end of tip into ring. Then place slide over stud in end of soldering tip to lock it securely in place. When the iron is used as a dehorner, the heat control lever located between the housing and the dehorning tip, should be pushed to the position marked "D." When it is to be used for soldering, this lever should be pushed to the position marked "IS." (See arrow, Fig. 2.) This instrument is guaranteed for one year from date of purchase against defects in material and workmanship. The guarantee, however, does not cover damage due to careless handling, misuse, or lack of ordinary care.

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**PARTS LIST FOR X50 DEHORNER**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Name</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>02796</td>
<td>HOUSING ASSEMBLY AND BRACKET STAND</td>
<td>4 OZ.</td>
</tr>
<tr>
<td>27971</td>
<td>BURNING IRON ASSEMBLY</td>
<td>7 OZ.</td>
</tr>
<tr>
<td>101047</td>
<td>SCREWS (2 USED)</td>
<td>1 OZ.</td>
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<tr>
<td>02808</td>
<td>CLAMP</td>
<td>1 OZ.</td>
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<tr>
<td>02810</td>
<td>SWITCH ASSEMBLY</td>
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</tr>
<tr>
<td>28342</td>
<td>CORD ASSEMBLY (18&quot;)</td>
<td>7/2 OZ.</td>
</tr>
<tr>
<td>28322</td>
<td>HANDLE</td>
<td>7 OZ.</td>
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<tr>
<td>101023</td>
<td>SCREW, ROUND HEAD MACHINE (2)</td>
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<tr>
<td>01226</td>
<td>STRAIN RELIEF BUSHING</td>
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</tr>
<tr>
<td>02841</td>
<td>FIBER WASHERS (3 USED)</td>
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<tr>
<td>01075</td>
<td>SCREWS (3 USED)</td>
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<tr>
<td>06824</td>
<td>STUD AND SOLDERING TIP ASSEMBLY</td>
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<td>02845</td>
<td>STUD ONLY</td>
<td>1 OZ.</td>
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<td>101061</td>
<td>SCREW, FLAT POINT</td>
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<tr>
<td>02846</td>
<td>SLIDE</td>
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</tr>
<tr>
<td>101023</td>
<td>SCREW, ROUND HEAD MACHINE (2)</td>
<td>1 OZ.</td>
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ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE