SERIAL NUMBER RECORD

Record the “Serial Number”, “Date of Purchase” and the “Purchased From” information in the spaces provided.

Date of Purchase: ______________________________
Serial Number: ________________________________
Purchased From: _______________________________

GERONIMO
MANUFACTURING, INC.
SUPPORT PROCEDURE

Notify Geronimo Manufacturing immediately of any malfunction or failure of the Geronimo Emergency Escape Device.

Always provide the unit’s Serial Number, Date of Purchase, and Purchased From information. This information should be recorded and placed on file by owner at time of purchase.

Return Geronimo unit in question to Manufacturer for inspection and warranty consideration.

RESOURCES

Publications

Contact Geronimo Manufacturing for additional copies of the Owner’s Manual, Dog House Flyer, or How to Inspect your Geronimo document.

Phone: 405-842-2023
Fax: 405-842-4496
Email: gm@geronimomanufacturing.com
Website: www.geronimomanufacturing.com

Geronimo Training

For information about our Training Video, use the contact information provided above.
The Geronimo Emergency Escape Device provides the quickest and safest method of controlled descent from a derrick or tower in the event of an emergency. Geronimo is carefully engineered and constructed of the finest materials. For years it has proven itself under all conditions on oil derricks around the world.

This manual is an important part of your Geronimo unit. Keep it on site and readily available at all times for future reference.

If you need a replacement copy or copies, use the contact information previously provided.

This manual covers the proper installation, operation and inspection/maintenance of your Geronimo unit. Please read it carefully. Whether you will personally be operating the unit or whether you are responsible for someone who will be operating the unit. It is critically important to know how to properly install, how to correctly operate, and how to perform the required inspection and maintenance of the Geronimo unit. Remember, lives may depend on this information.

Thank you for purchasing and using the Geronimo Emergency Escape Device.
CONTENTS

SERVICE ................................................................. 2
  Serial Number Record. ............................................. 2
  Support Procedure. ................................................. 3
  Resources. ........................................................... 3

FORWARD ................................................................. 4

EMPLOYER’S RESPONSIBILITY. ........................................ 7

USER’S RESPONSIBILITY. ............................................... 8

CABLE INSTALLATION. .................................................. 9
  Cable Type. .......................................................... 9
  Cable Length. ....................................................... 9
  Securing Upper End of Cable. ..................................... 10
  The Ground Anchor. ................................................ 11
  Cable Tension. ....................................................... 12
  Securing Lower End of Cable. ..................................... 12
  Additional Cable Related Safety Information. ................. 13

PLACING THE GERONIMO UNIT ONTO THE CABLE. ............. 14

OPERATING THE UNIT. .................................................. 18
  Mounting the Geronimo Unit. ..................................... 18
  Moving Down the Cable. .......................................... 19

INSPECTION AND MAINTENANCE ................................... 20

PARTS ................................................................. 24

WARRANTY ............................................................. 25
EMPLOYER’S RESPONSIBILITY

As an employer, **YOU** are responsible for the safety of your crew. This includes providing a safety engineer at the jobsite when necessary.

The Geronimo unit delivers fast, controlled, safe descent when needed. However, in order for it to do so, it **must** be installed correctly, it **must** be fit for use, and employees **must** know how to use it.

Make sure that **anyone** who will use this product understands the purpose of the unit (to be used **only** in emergencies), how to properly install and use the unit, and also, how and when to inspect the unit.

**Your failure to do this could cost a life.**

* * * * * * * *

Increasingly, State and Federal safety regulations require continuing employee education in how to perform jobs more safely. Geronimo Manufacturing, Inc, stands ready to assist you in that function. A movie outlining the Geronimo Emergency Escape Device’s features, proper installation, and use is available. This can be an invaluable tool in your company’s safety program. Use the contact information on page 2 in this manual to obtain your copy.

Make certain that you return the Warranty Card provided.
USER’S RESPONSIBILITY

If **YOU** are the end user of this product.
If **YOU** are the person who might need Geronimo
to someday save your own life.

Then, **YOU must not** rely on others to totally
assure your safety.

If you are that person, be proactive and take your own personal safety
seriously. **YOU must** know how to properly install, use, and inspect your
Geronimo Emergency Escape Device. **Do not rely on someone else to do that**
for you. Do it yourself.

**YOUR** life may depend on it!
INSTALLATION

Your safety depends upon the correct installation of the Geronimo Emergency Escape Device and its cable.

**Carefully** read this manual before attempting to install or operate the unit.

CABLE INSTALLATION

**Cable Type**

Geronimo Manufacturing recommends 7/16” – 1/2” steel-core cable, capable of withstanding at least 17,000 lbs. of pull. Six strand cable is preferred. Make sure the cable has no kinks or frayed areas. If any kind of damage is found, replace the entire cable immediately.

**Cable Length**

To determine the length of cable required, refer to illustration 1. In addition, take note of the reference to “Proper Tensioning” of the cable. This is visually indicated as slack.

**Illustration 1**

![Diagram of Cable Type](image-url)
Securing Upper End of Cable

On an oil rig, attach the upper end of the cable to one leg of the rig mast (see illustration #2) so that the Geronimo will hang over the work platform or walkway.

**DANGER:** Cable MUST be attached properly to the rig mast as shown in illustration #2. Clamp cable EXACTLY as shown. No other variation of attachment is approved.

The safest installation allows the user to mount the unit while standing on the work platform. This may require installing a gate in the work platform’s guard railing. However, this would best insure safe mounting and effective exiting from the work area. **DO NOT FORCE YOUR CREW TO HAVE TO CLimb OVER ANYTHING TO GAIN ACCESS TO THE GERONIMO UNIT!**

Turn back the end of the cable a minimum of nine inches and use at least three American Petroleum Institute approved cable clamps to secure it in place. See illustration #2.

**Illustration 2**
CAUTION: Make sure the U-bolts are on the dead tail side of the cable. Make sure that the clips (sometimes referred to as blocks) are on the side of the main cable run. The correct clamp orientation is very important and will prevent the clamps from cutting into and weakening the main cable run. Refer to illustration #3 to clarify the correct clamp orientation.

Illustration 3

The Ground Anchor

The anchor to which you secure the lower end of the cable must be able to withstand a pull of at least 3,000 pounds. THIS IS CRUCIAL!

WITHOUT A DOUBT, THE MOST COMMON CAUSE FOR INJURY WHILE USING THE GERONIMO ESCAPE DEVICE HAS BEEN DUE TO AN INADEQUATE GROUND ANCHOR!

Do not use a stake in the ground as an anchor.

Do not use a barrel full of sand or concrete as an anchor.

If you are not a safety engineer, do not guesstimate the adequacy of an intended ground anchor. Have your safety engineer confirm that any considered ground anchor will be able to withstand the REQUIRED 3,000 lb pull.

YOUR LIFE MAY DEPEND ON IT!
Cable Tension

Draw up the cable at the ground anchor end until there is from 6 to 12 feet of sag in the middle, depending upon the length of cable run. See Illustration #4.

Illustration 4

Cable Type

\[
L = 2 \times H
\]

Length of Cable Equals Twice the Height of Work Platform

Securing Lower End Of Cable

Now, secure the lower (ground anchor) end of the cable in the same manner used for the upper end. Turn back the end of the cable a minimum of nine inches and use at least three American Petroleum Institute approved cable clamps to secure it in place. See illustration #5.
Illustration 5

CAUTION: Make sure the U-bolts are on the dead tail side of the cable. Make sure that the clips (sometimes referred to as blocks) are on the side of the main cable run. The correct clamp orientation is very important and will prevent the clamps from cutting into and weakening the main cable run. Refer to illustration #3 to clarify the correct clamp orientation.

Additional Cable Related Safety Information

You may wish to mark the lower (ground) end of the cable for better visibility. We recommend using fluorescent paint for this purpose. Do not use red rags or any other material that could prevent the Geronimo unit from being able to move down the cable.

In the winter, ice may need to be removed from the cable. This can normally be easily accomplished by rapping on the cable with a hammer. A heavily iced cable can prevent the Geronimo unit from being able to travel down the cable to the ground.
PLACING THE GERONIMO UNIT ONTO THE CABLE

First, remove the clip pin on the left side of the unit’s head and pull out the hinge pin. See illustration #6

Illustration 6
Next, open the hinged head and place its pulleys onto the top of the cable. See illustration #7.

Illustration 7

When properly installed, the brake handle should be on the right side of the cable when looking toward the lower (ground) anchor. Also, the arrows on both the decal and registration plate should point toward the lower anchor or ground.
Finally, close the Geronimo unit’s head and replace the Latch pin. See illustration #8.

**Illustration 8**

Note: It may be necessary to move the brake lever slightly forward in order to be able to close the hinged head. An internal brake spring continually keeps the brake slightly engaged until released by hand by moving the brake handle forward.
Once the unit is mounted to the cable and the latch pin has been reinstalled, then, secure the latch pin with the clip pin. Insert the clip pin from above, and then twist it 180 degrees, to lock it in place. See illustration #9.

Illustration 9
OPERATING THE UNIT

In the event of an emergency, open guard railing gate (if installed) and then, immediately move to the Geronimo Emergency Escape Device.

MOUNTING THE GERONIMO UNIT

You should be looking down the cable when mounting the unit.

Steady the unit with your left hand by grasping the vertical extension tube which connects the Geronimo head to the T Bar Seat. Next, pull the brake lever toward you with your right hand. This will apply the brake and prevent the Geronimo unit from moving while you mount it.

CAUTION: Keep hands clear of cable and rollers. Hands or fingers caught between cable and rollers may be seriously injured.

Place your legs onto the seat saddle so the vertical extension tube is between your legs. See illustration #10. When properly mounted onto the unit you should be looking down the cable and facing toward the ground end of the cable.

Illustration 10
MOVING DOWN THE CABLE

Hold yourself close to the vertical extension tube with your left hand.

Keep your head forward and to the left of the vertical extension tube. See illustration #11.

CAUTION: Keep face to one side, angled down, and well forward when riding the unit. Friction between brake shoe and cable creates bronze shavings which may lodge in unprotected eyes.

Illustration 11

Use your right hand to move the brake lever forward and away from you. Moving the brake lever forward and away from you releases the brake and allows you to begin to descend down the cable to the ground.

Use the brake lever to slow your descent speed and to come to a controlled stop at the ground. Moving the brake lever toward you applies the brake.

CAUTION: Use only light pressure when applying brake. Applying too much pressure too quickly may cause a jerky stop which could cause you to lose your grip and fall.

Once on the ground, dismount from the Geronimo unit and move to safety immediately.
INSPECTION AND MAINTENANCE

YOU MUST READ AND CLEARLY UNDERSTAND THIS SECTION IF:

YOU WILL PERSONALLY BE OPERATING THE GERONIMO UNIT YOURSELF

OR

YOU ARE RESPONSIBLE FOR ANYONE WHO WILL BE OPERATING THE GERONIMO UNIT.

How to Inspect your Geronimo Emergency Escape Device

Much like the safety belt in your automobile, the Geronimo Emergency Escape Device is there to help save your life in the event of an emergency. And, just as you would not drive without using your safety belt, you should not work “above” without knowing that the unit is both installed correctly and also is in good working order. Previous sections of this manual describe how to properly install and operate the Geronimo. This section will show you how to inspect the unit to confirm whether it is in good working order and ready to be used.

The Geronimo unit, though ruggedly built and durable, is constantly exposed to the harsh drilling environment. It is therefore, crucial to the safety of the men who work “up high” to have a Geronimo unit that is properly maintained, routinely inspected and is functioning properly. Your life, or your men’s lives, may depend on it. Please give this the priority that it deserves!

If you are the employer, you are responsible for the safety of all of your employees. Make sure that anyone who will use this product understands the purpose of the unit (to be used only in emergencies), how to properly install and use the unit and also how and when to inspect the unit. Your failure to do this could cost a life.

If you are the end user of this product. If you are the person who might need Geronimo to someday save your own life. Then, you must not rely on others to totally assure your safety. If you are that person, be proactive and take your own personal safety seriously. You must know how to properly install, use, and inspect your Geronimo Emergency Escape Device. Do not rely on someone else to do that for you. Do it yourself.
The Geronimo Emergency Escape Device is not a complicated product and can therefore be easily and quickly inspected. The following inspection should be performed daily by each person who might directly need the unit in order to escape a life threatening situation.

1. Visually inspect all welds (on both the head and seat).
   a. There should be no visual indication of stress. Such indication would normally show up as visible “stress lines”.
   b. There should be no cracks in the welds. All welds should be free of excessive rust. They should look free of any damage. They should have continuity.
   c. Make sure that no field welding or other modifications have been made on the unit. Field modifications can weaken the unit and impair its operation. Do not attempt to repair or make field modifications to the Geronimo unit or any of its components.

2. Inspect the Geronimo Head (Body).
   a. The head should not be crushed, bent, or damaged in any way. Any case damage whatsoever could prevent the unit from functioning properly.
   b. Remove and inspect the hairpin clip and latch pin for any damage or deteriorization. They should not be worn, bent, excessively rusty, or should not have been replaced by a bolt or any other substitute. Obtain any needed replacement directly from Geronimo Manufacturing only. No exceptions!
   c. Inspect the non removable hinge side of the latch component for signs of wear, distortion or rust. Replace the entire unit if excessive evidence of any of these characteristics are found.
   d. Open the head and look inside the unit. It should be free and clear of excessive dirt, grease, oil, or anything that could impair or obstruct the free movement of the brake handle and the two rollers.
   e. Do not use the unit if the brake handle does not move freely and properly. The spring should attempt to force the handle back into a perpendicular position to the head. If the spring does not or cannot apply enough pressure to be able to move the handle back into a position perpendicular to the head, replace the Geronimo.
   f. The rollers must turn easily. Do not attempt to oil the rollers. They turn on an oil impregnated bronze bushing and do not require additional oiling. Additional oiling will cause excessive dirt buildup and can be detrimental to the units operation.
g. Inspect the bronze brake shoe and bronze cam lock (the bronze component attached to the handle) for wear. When the bronze pad is worn to less than 1/8" thickness. See illustration #12.

Illustration 12

h. There is a pin that locks the bronze cam lock to the handle on the inside of the Head. This pin goes through both the cam lock and the handle and can only be seen by looking inside the head. Visually confirm that this pin is in place and has not been lost or damaged. If this pin is gone, do not use the unit, do not attempt to replace it. Replace the entire Geronimo unit.

i. There should be a riveted “stop bolt” in the Geronimo head. This stop bolt prevents the unit from being installed with the brake handle in the wrong position. Look for and confirm the integrity of this stop bolt. Do not use the unit if the “stop bolt” is damaged or gone. Replace the unit.

3. Inspect the extension tube.
   a. Initially, the extension tube should be inspected to make sure that it is not bent, crushed, or damaged in any way. In addition, both ends of the tube should be specifically “looked at” to confirm that the holes through the tube are not damaged or show any signs of stress, cracking, or elongation. Both holes should be confirmed to be 3/8" diameter in size and should also be confirmed to be located 1-3/8" from the end of the extension tube (from end of tube to center of hole). Though seemingly insignificant, it is crucial that the holes be properly located from the end of the extension tube. This location makes attachment of the extension tube to the head and seat “foolproof”. Any other hole location could result in someone believing that they had secured the components together but, in reality, they might only be held together by friction and could come apart with the application of a man’s body weight.
b. **Do not** saw off the damaged end of an extension tube and re-drill the holes. Order a new tube from the Manufacturer. **Do not replace the tube with anything other than a replacement from the Manufacturer.** The extension tube is made from a special alloy material. The use of any other material will put people’s lives in danger.

4. **Inspect the seat.**
   a. Visually inspect the seat welds as explained in Step 1 above.
   b. Inspect the attachment holes in the seat tube. They should show no sign of stress, elongation, etc. as previously instructed. They should also be confirmed to be 3/8” diameter and to be 1-3/8” from the end of the attachment tube.
   c. **Replace immediately** if your seat is different or shows any signs of having been modified. Replace only with a seat from the Manufacturer.

5. **Inspect the attachment bolts.**
   a. Inspect both of the attachment bolts and nuts.
   b. Make sure that the bolts are not worn, cracked, bent, or excessively rusty.
   c. Also, make sure that the nuts are **locknuts** and therefore will stay in place. **The nut must be a locknut.** A standard nut is not acceptable.
   d. Replacement nuts and bolts are available from the Manufacturer. It is recommended that you obtain replacement nuts and bolts from the Manufacturer. However, nuts and bolts can be field replaced as long as they are the correct diameter, length, grade and type.
   e. Replacement bolts must be 3/8” diameter and 1-3/8” long. **They must be “Grade 5” bolts only. No other grade should be used.** “Grade 5” bolts can be identified by the markings on the head of the bolt. See illustration.

The above described inspection, though lengthy in appearance, will take only a few minutes to complete and **should be performed DAILY** by the person whose life may depend on the use of a properly functioning Geronimo Emergency Escape Device. Please call Geronimo Manufacturing at 405-842-2023 with any questions about your unit.
REPLACEMENT PARTS

Latch Pin Assembly
Part # 100193

T-Bar Seat & Extension Assembly
Part # 100195
WARRANTY

For a period of 90 days from the date of delivery by the dealer to the original purchaser, Geronimo Manufacturing, Inc. will provide free replacement of any unit containing a defect in material or workmanship.

This warranty is limited to the replacement of units returned to the dealer and determined defective upon inspection by Geronimo Manufacturing, Inc. This warranty does not include any cost of labor, transportation, freight, installation misuse, or neglect.

There are no warranties which extend beyond this description. Specifically excluded are the warranty of fitness for a particular purpose and the warranty of merchantability.

This equipment has been tested for satisfactory performance under a variety of conditions. This testing does not guarantee that the equipment will perform satisfactorily in all conditions or situations. Adequacy should be determined by operating the Geronimo Emergency Escape Device under anticipated field conditions prior to purchase.

Geronimo Manufacturing, Inc.
Oklahoma City, OK 73116
405-842-2023