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## **JTC-LEVER DEVICE**

**Warning:** All operators must read the JTC-LEVER instructions and warnings prior to use. All operators should wear safety glasses and gloves while using the JTC-LEVER. The JTC-LEVER should be inspected for any damage and or debris prior to any training or use. The user should never place themselves between the lever and a hard pinch point. Failure to do so can result in serious bodily injury or death. Overloading the JTC-LEVER with added weight or forces can result in catastrophic failure of said product.

**Assembly:** The JTC-LEVER is a two part modular system that is created from a custom alloy that will not snap under pressure. The Lever is assembled with the T-Handle portion sliding into the lower larger receiver. The loops on the top and bottom portion should be facing out on the same side of the tool. Then secure said pieces together with the pin supplied. The entire process is accomplished in seconds

**JTC-CLAW Insertion:** The Lever is designed to work with the JTC-CLAW. Simply back off the T-Handle set screw at the bottom of the LEVER receiver and insert the entire CLAW into the receiver. Then tighten the T-Handle and your LEVER is full assembled ready to pry hundreds of pounds.

**Maintaining Of Lever:** This can be accomplished by inspection of the tool. The Lever can be cleaned with soap and water and dried off. The Lever should have a light coat of grease or oil applied to the threads of the T-Handle as well as the inside of the receiver and the main tube in order to ensure the parts are free of rust and move freely in an emergency situation.

**Application/Uses:** The Lever is designed to be used for USAR (Urban Search and Rescue)/OEM/Natural Disaster scenes. Its sole purpose is to increase the amount of weight a human can move through manual force only. The LEVER is positioned into a pile of debris and human force is added to the end of the Tee Handle to provide leverage resulting in the object being moved. Depending on the weight of the object being moved this may need more than one operator pushing down on the LEVER to raise the weighted objective. Once the object is lifted it can be secured through blocking, chalking, cradling, insertion of hydraulic jacks, or air bags (that now can fit) tie offs, or simply rolling object off the pile.

**Warning:** Do not place your facial area or body in front of or under the T-Handle while applying upward, sideward or downward pressures. Failure to do so can cause serious bodily injury or death in the event the Lever

becomes dislodged.

**Setting of JTC-LEVER:** In the event your target is a large object that is flush against a pad or other hard object and you can not get a purchase point to start your rescue efforts. Then you will have to make a purchase point. Simply set the teeth of the CLAW under the object by striking the rear portion of the CLAW and forcing the teeth under the hard object. Once this is set slide the LEVER over the top of the Claw tighten the T-Handle and add human force.

**Warning:** Enough space must be left between the hard object and the CLAW housing so that the LEVER receiver can slide freely over the housing. In some instances is easier to pre assemble the CLAW and LEVER and then force the teeth of the CLAW into the purchase point.

**Come Along Application:** This application was created from our experience on the 11<sup>th</sup> and the 9<sup>th</sup> Ward. There are two welded loops attached to the LEVER one on each portion. Yes the Loops are used for transportation and storage. But the intended use is for the application of a come along for single operator use or tie offs with ropes and straps in order to have added manual force while on top of a pile etc.

The LEVER is secured to its target you're trying to move. The operator then secures the come along to an immovable object such as a fire truck. The cable of the come along is attached to the top ring (T-Handle) direct or via tow straps etc. The operator now begins to operator the come along. This application allows one operator to move hundreds of pounds by them self. **This allows any operator no matter what their physical abilities are to move hundreds of pounds by them self.**

The same principal is applied with the use of ropes and human force except that there will be a need for mass manpower in order to provide enough force to move the weighted object.

**Warning:** While completing any of the above listed applications do not attach a rope, cable or strap like material to yourself and the LEVER this can cause serious bodily injury and or death in the event of the object shifting. Do not place your self over, under, to direct left or direct right of the cable, chain, rope, strap, or the weighted object while this application is being completed this can cause serious bodily injury and or death in the event of the object shifting.

**Compound Angles/Block & Tackle:** The use of a block and tackle can be applied to the LEVER applications. An example of this is to use a block and tackle in order to move the cable 90 degrees up, down, left, or right, around an object debris etc. in order to achieve the leverage desired.

**Warning:** Do not attempt to use a Block and Tackle and compound angles unless you are certified to do so and are using the correct industrial/emergency rated Block and Tackles. Failure to do so will result in serious bodily injury or death.

**Elevated Targets/Blocking:** In the event you're attempting to move a target such as vehicle that is elevated from the ground, then one will need to block the LEVER into place. This is in order to produce the correct leverage and compound angle to move the weighted object. This can be accomplished by using what every solid (all the way through) object can be located at the scene of the emergency. Objects such as 4X4, solid concrete blocks, steel beams etc. that can moved under the target are ideal for this application. Once you raise the area high enough under the objective you then can apply the same principals outlined prior in this set of instructions.

**Warning: All blocking must be done with extreme caution and with the use of solid objects. It may be necessary to shape the wood with saws due to grading of ground or attempt to level ground area with a CLAW prior to insertion of the block. This will ensure the block will not shift under pressure. Failure to do so can cause serious bodily injury or death.**