

T.E.S.T.S. - Tool & Equipment Safety Tether System

Falling object hazards from elevated locations is a serious jobsite safety concern. Reliance recognizes this hazard, and developed T.E.S.T.S. to assist in jobsite dropped object protection.

A 15 lb (6.8kg) tool dropped a distance of 6 ft (1.8m) can generate forces greater than 1000 lbs (4.4kN) when arrested with no energy absorption. To combat this issue, Reliance has developed a tool lanyard technology (patent pending) that can limit a fallen tool's arresting forces to 450 lbs (2kN) or less. Tools and equipment weighing up to 50 lbs (22.6kg) can be accommodated with this technology.



Not all tools and equipment have adequate connection points for lanyard connection. The Reliance Tool Lanyard Series provides several field installable tool/equipment connectors that can withstand the potential forces that heavier dropped tools can generate. See below for details.

Lanyards and Anchor Connectors



799955 Tool Lanyard: (Fig.1) Lanyard is designed to arrest dropped tools weighing up to 50 lbs (23kg). Lanyard is elasticized and contains an energy absorber that limits forces to 450 lbs (2 kN). Includes spring hooks on each end.

799953 Tool Lanyard: (Fig. 2) Lanyard is designed to arrest dropped tools weighing up to 15 lbs (7kg). Lanyard is elasticized and contains an energy absorber that limits forces to 225 Lbs (1 kN). Includes spring hooks on each end.

799971 Light Duty Anchor Ring: (Fig. 3) Designed to be installed on tools and equipment that do not include a means for connecting the tool lanyard or one of adequate strength or size. Can be used on tools weighing up to 20 lbs (9kg) in weight. Ring is installed using the 799960 3/8" (9.6mm) banding. Sold in bags of 10.

799973 Heavy Duty Anchor Ring: (Fig. 4) Designed to be installed on tools and equipment that do not include a means for connecting the tool lanyard or one of adequate strength or size. Can be used on tools weighing up to 50 lbs (23kg) in weight. Ring can be installed using the 799962 1/2" (13mm) banding. Sold in bags of 10.

799980 Anchor Loop: (Fig. 5) For use on tools or equipment that have an anchor hole or slot, but is too small or positioned in such a place that the standard spring hook cannot be inserted.

799960 3/8" (9.6mm) Banding: Used to secure the 799970 Anchor Ring to tools or equipment. Can be used on tools weighing up to 20 lbs (9kg). Banding is tensioned using the 799990 Tension Tool (Page 2) and locked in place with the 799961 3/8" (9.6mm) Screw Loc Buckle. Available in 100' (30m) rolls.

799962 1/2" (13mm) Banding: Used to secure the 799972 Anchor Ring to tools or equipment. Can be used on tools up to 30 lbs (13kg) with a single wrap and up to 50 lbs (23kg) with a double wrap of banding. Banding is tensioned using the 799990 Tension Tool (Page 2) and locked in place with the 799963 1/2" (13mm) Scru-Lok Buckle. Available in 100' (30m) rolls.

799963 : 1/2" (12.7mm) Scru-Lok Buckles Box of 25

799961 : 3/8" (9.4mm) Scru-Lok Buckles Box of 50

Used to secure banding in place around tools. Allen wrench included in box



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Selecting the Proper Tool Connection

The method of lanyard connection to your tool or equipment is essential for safe use and operation. Reliance has tested and developed several methods for connection. The connection must have adequate strength to retain the tool or equipment when dropped. Connections may see forces as high as 450 lbs (2kN). Reliance recommends that connections be capable of withstanding forces of 1000 lbs (4.4kN) or higher to allow for a factor of safety. Anchor point must also be capable of withstanding 1000 lbs (4.4kN).

Direct Connect Method

Tools and equipment with connection points of adequate size and strength can be connected directly to the lanyard with the supplied spring hook. When using Tool Lanyards 799955, the label end should be connected to an acceptable anchor point.



Anchor Loop Method

Tools or equipment with holes or slots that are not sized to allow for the direct connect method may be accommodated by using the 799980 anchor loop. To use, insert loop through hole or slot and then pass the aluminum swage button through the loop. Pull button tight to choke wire rope around the tool or equipment. **The 799980 Anchor Loop may only be used on tools 30 lbs or less*



Anchor Ring Connect Method

Tools or equipment that do not have a built in method of connection can be retrofitted with an Anchor Ring. The 799971 Anchor ring utilizes the 799960 3/8" banding and can accommodate tools weighing up to 20 lbs (9 kg). The 799973 Anchor Ring utilizes the 799962 1/2" banding and can accommodate tools weighing up to 30 lbs (14kg) with single wrap and up to 50 lbs (23kg) with double wrap.



Anchor ring installation on an irregular shaped tool utilizing the 799990 tool. Consult instruction manual for use and installation details.

Quick Selection Guide

| Part # | Tool Equipment Weight | | | | |
|--------------------|-----------------------|------------|------------|------------|------------|
| | 0-5 lbs | 5-15 lbs | 15-20 lbs | 20-30 lbs | 30-50 lbs |
| 799950 | | Do Not Use | Do Not Use | Do Not Use | Do Not Use |
| 799952 | | Do Not Use | Do Not Use | Do Not Use | Do Not Use |
| 799953 | | | Do Not Use | Do Not Use | Do Not Use |
| 799955 | | | | | |
| 799960 | | | | Do Not Use | Do Not Use |
| 799962 Single Wrap | | | | | Do Not Use |
| 799962 Double Wrap | | | | | |
| 799971 | | | | Do Not Use | Do Not Use |
| 799973 | | | | | |
| 799980 | | | | | Do Not Use |

Shaded Cell Indicates Acceptable Use

Multiple Anchor Rings

In some cases more than one anchor ring may be needed and installed on the same tool. For example, cordless tools with removable battery packs need Anchor Rings on both the tool and battery pack. Items weighing 5 lbs (2.3kg) or less may be secured with the 799952 tool lanyard as shown.

