

Rescue Options Continued...

Drag Rescue Devices

Morning Pride offers four different DRDs, with three different hand hold systems.

The new 2007 edition of NFPA 1971 (which covers BOTH Structural and Proximity garments) **REQUIRES** that a certified Drag Rescue Device be installed in every coat. Our Price List (and all that follows) includes the cost of our standard Articulating Drag Rescue Device in the basic model cost. But there are options and upgrades available and these pages explain those options. All upgrades are priced in the price list at the upcharge over standard. The price list includes individual and retrofit pricing as well.

DRDs store between the coat's outer shell and lining. All are sized loose enough to give total freedom of movement, yet are virtually undetectable during fire fighting. In use, it slides between the shell and liner to firmly grip the upper torso of the wearer and offer better leverage to the rescuer. The Hand Hold is attached by hook and loop via a flap on the underside of the collar and is barely visible when the coat is worn.



ALL DRDs extend approximately 9" from garment when deployed. Custom deployment lengths are also available. Contact our Customer Service Department for details.

Note: DRD #4 (FDNY Metro DRD Package) style has a unique standard Hand Hold (see discussion of this Metro DRD for details) that includes a Suitcase Hand Hold, Tissue Box Handle and an Extended Deployment Tab.

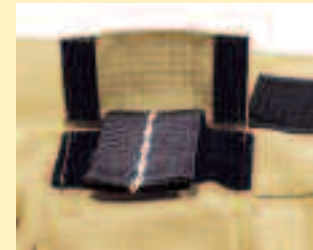
Three Hand Hold Systems:

1. Standard Looped Hand Hold System

The Looped Hand Hold System is standard on DRDs 1, 2, and 3.



DRD Not Deployed, Flap Closed



Flap Open to Allow DRD Deployment



DRD at Start of Deployment

2. Optional Suitcase Hand Hold System

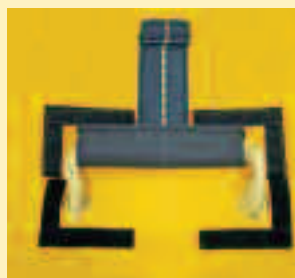
The Optional Suitcase Hand Hold System is available only on DRDs 2 and 3 as a custom option.



DRD Not Deployed, Flap Closed



Flap Open to Allow DRD Deployment



DRD at Start of Deployment

3. Optional 6" Extended Tab and Optional Reflective Trim on Extended Tab on Suitcase Hand Hold

(as shown on Optional Suitcase Hand Hold System above)

This Custom Option is Available on:

Model:	Structural	Proximity	Technical Rescue and Recovery	EMS
Prefix ID:	<input checked="" type="checkbox"/> BPR	<input checked="" type="checkbox"/> BPR	<input checked="" type="checkbox"/> USR	<input checked="" type="checkbox"/> EMS
	<input checked="" type="checkbox"/> LTO	<input checked="" type="checkbox"/> LTO	(Also EMS, Liquid Splash/HazMat, Wildland Certified)	
	<input checked="" type="checkbox"/> TAC	<input checked="" type="checkbox"/> PRH		
	<input checked="" type="checkbox"/> PRH			

1. Our First DRD Design

Rapid Rescue Strap

(Patented)

This was our first drag rescue device offering and is most similar to the other drag rescue designs on the market. The photo below shows the system with the outer shell removed.



Rapid Rescue Strap Standard Looped Hand Hold

Rapid Rescue Strap shown not installed

Note: No options are available on this bulkier, earlier technology DRD.

2. Our Current Standard DRD Design (included in base system pricing)

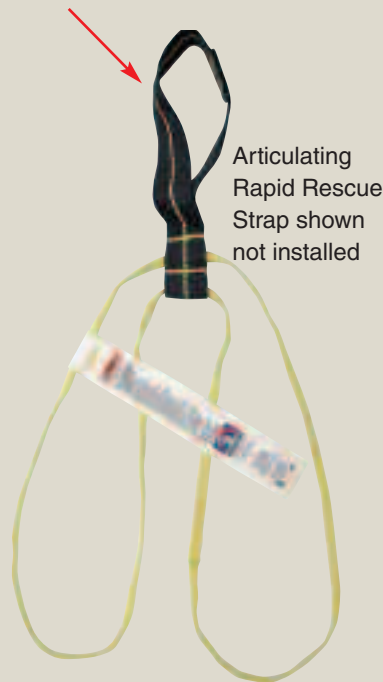
Articulating Rapid Rescue Strap

(Patent Pending)

There are two main advantages to this new design:

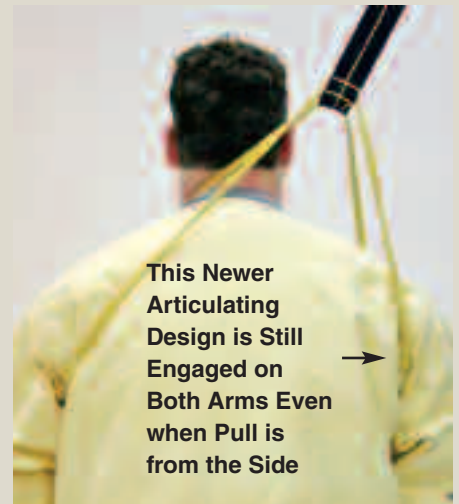
1. As the photos to the right show, the articulating nature of this newer design means that both underarms are engaged when the rescuer must pull from an angle. In contrast, non-articulating designs will only pull on both underarm areas if the rescuer can make a straight pull. Engaging both sides of the downed firefighter should help minimize the chance of pulling the coat off or failing to gain effective leverage on the victim.

Articulating Rapid Rescue Strap with Standard Looped Hand Hold



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	<input checked="" type="checkbox"/> PRH			



2. The rolled edges of the articulating system also present far less of a rough edge that could lead to moisture barrier abrasion.

Rescue Options Continue...

Rescue Options Continued...

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	<input type="checkbox"/> TAC	<input checked="" type="checkbox"/> PRH		
	<input type="checkbox"/> PRH			

3. Our Recommended Positive Closure DRD Design

Positive Closure Articulating DRD

(Patented)

Anyone who has had the unfortunate duty of trying to move an unconscious downed firefighter knows the dead weight and body limpness that complicate the rescue. This new positive closure rapid rescue strap engages the strap to positively circle the chest as the coat is closed. The extra leverage of a completely closed system (rather than simple underarm positioning of other drag rescue devices) could be a significant aid to rescue.

While this system is slightly more expensive than less positive DRDs (the front D-Ring and Reverse Hook must be certified to provide 1,573 foot-pounds of strength and is hence somewhat expensive), this is the DRD that Morning Pride recommends as offering the most reliable leverage in an emergency situation.



Note: Positive Closure Articulating DRDs are not available on TAC or other coats with narrow front closures.

Positive Closure Articulating DRD Shown with Standard Looped Hand Hold



Optional Suitcase Hand Hold and Optional 6" Extended Tab



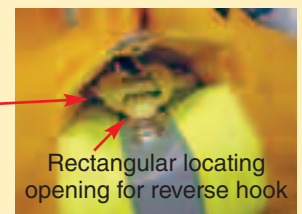
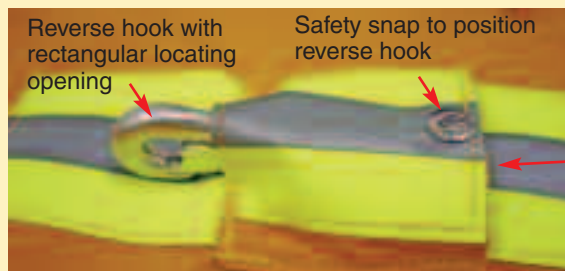
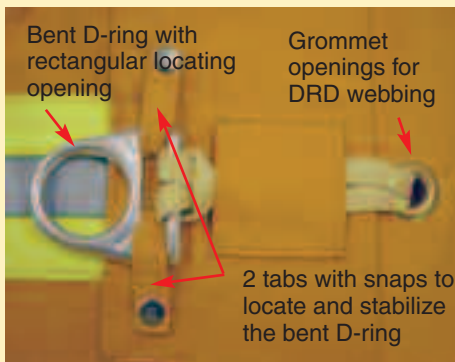
Optional Suitcase Hand Hold, Optional 6" Extended Tab and Optional Reflective Trim



Positive Closure Articulating DRD shown not installed

Note Positive Closure Bent D-ring and Reverse Hook

All Positive Closure Articulating DRDs ordered on new coats/tails will include the following design elements:



Note: Left chest pocket and clip options are limited due to the Positive Closure hardware. See page 145 for more details.

4. Our Recommended, Most Fully Featured Positive Closure DRD Design

FDNY Metro DRD Package

(Patented)

NYC's FDNY has conducted a rigorous examination of the various DRD technologies. They have spent over 9 months and completed over 2,500 drags in various conditions. They have selected our Positive Closure Articulating Drag Rescue Device with certain optional upgrades. We feel their package of DRD designs and options represents the best in available technologies and so we are offering an FDNY Metro DRD Package that conveniently includes all their selected options.

Specifically, the FDNY Metro DRD Package includes the following features in addition to the standard Positive Closure features:



Tissue Box Handle Garage (Patent Pending): Designed to facilitate easy access while simultaneously minimizing accidental deployments. 2 snaps on cover to allow easy DRD insertion and

DRD channeling during use (as well as hook and pile tape).



Extended Deployment Tab (Patent Pending) with reflective trim and rolled end. FDNY enhanced our suitcase handle design to add a high visibility deployment tab with a rolled end for no-visibility location.



Velcro® under collar holds deployment tab when not in use.

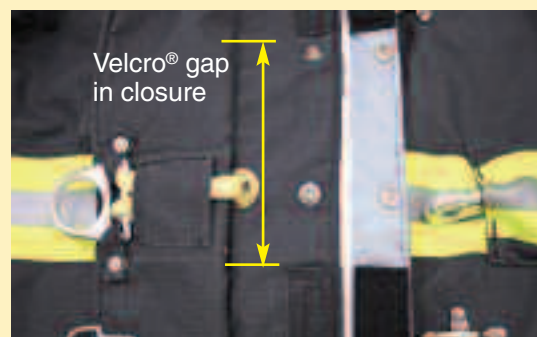
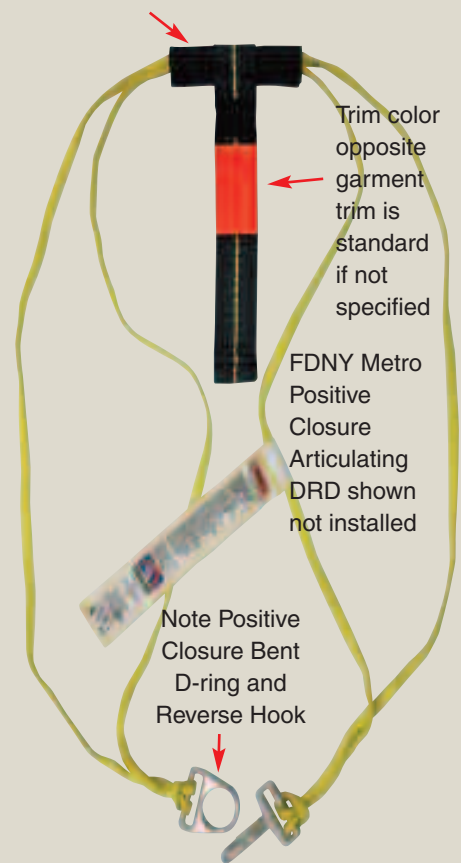


Velcro® retaining tabs. FDNY felt this stabilized the DRD during normal wear and tear, so that it was in optimal placement for emergency use.

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	<input checked="" type="checkbox"/> LTO	<input checked="" type="checkbox"/> LTO	(Also EMS, Liquid Splash/HazMat, Wildland Certified)	
	<input checked="" type="checkbox"/> TAC	<input type="checkbox"/> PRH		
	<input type="checkbox"/> PRH			

FDNY Metro DRD Package includes Suitcase Hand Hold and Extended Deployment Tab, Rolled End, and Reflective Trim (Orange Reflective is Standard for FDNY. Alternative Colors can be Requested at No Extra Charge)



Rescue Options Continue...

Note: The Positive Closure Bent D-ring and Reverse Hook will replace one standard Hook & D and is always placed in the center of the trim. In addition, standard coat closures will now be constructed using 3 evenly spaced Hook & Ds.

Rescue Options Continued...

5. The latest DRD for Even More Ease of Rescue

Configurable 5 Person Drag System

Also Configurable as a 4, 3, 2 or 1 Person Drag System

Patented and Patent Pending

Some customers have indicated a preference for even more flexibility and available “pull force” in their Drag Rescue Systems. In conjunction with an experienced metro rescue firefighter, we have developed a configurable (up to 5 person) drag system. **THIS IS THE ONLY SUCH SYSTEM AVAILABLE ON THE MARKET.**



So, how does it work?

The system is basically invisible when not deployed, as the full torso photo illustrates.

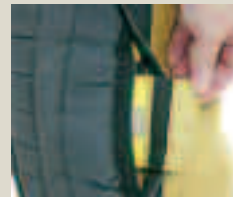
The normal top of the back opening is used, as in all DRDs. You can get any hand hold, as with any DRD.



The loop hand hold is standard but many prefer the optional extended deployment tab, as in the metro system (see page 154) with/or an optional suitcase hand hold.

Behind each knee pad, Kevlar® webbing is accessible to lift the legs (detachable picture frame knees of any kind are required when the 5 person drag system is specified). Photo shows the optional Scotchlite™ trimmed deployment tab for the knee.

These photos show when the knee tab is pulled, the knee detaches, and a hand hold is exposed. The hand hold is connected to Kevlar® webbing that runs behind the knee and allows lower torso support when moving a downed firefighter. The pants knee area system is not connected to the coat DRD. It operates independently and does not need to be connected to the coat when both pieces are donned. Morning Pride owns separate patents that cover connected coat/pants systems, which will allow NFPA, Level 3 Harness certification but require pants to coat connection with each donning.

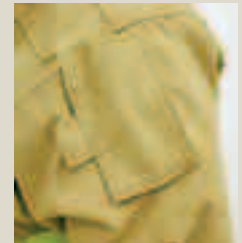


Photos show optional knee leg lift, and optional Scotchlite™ trimmed deployment tab

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	<input checked="" type="checkbox"/> LTO	<input checked="" type="checkbox"/> LTO	(Also EMS, Liquid Splash/HazMat, Wildland Certified)	
	<input type="checkbox"/> TAC	<input checked="" type="checkbox"/> PRH		
	<input type="checkbox"/> PRH			

Similarly, flaps on each shoulder hide portions of the DRD that can be grasped when the flap is opened.



As a result the system is configurable to 1, 2, 3, 4 or 5 drags based on available manpower and ability to more quickly extract an incapacitated firefighter.



Below, a traditional 1 person pull is always available with the mid-back hand hold.



With 2 members available to pull, both shoulder straps can be used (or the back hand hold and one available shoulder could be used).

Alternately with **2 members**, the lower and upper torso could be lifted behind the knees and at each shoulder.



With **3 members**, both shoulders and the mid-back hand hold could be deployed (say if the lower torso was not available to be easily grasped). It would also be possible with 3 members to have a rescuer on each shoulder and holding the knees once the legs were freed.



With **4 members**, all 3 coat hand holds could be used (mid-back and both shoulders), while one rescuer could handle both knees.



With **5 members**, all 3 coat hand holds could be used and 2 rescuers could each handle one knee for the quickest egress possible (and balanced load carrying).



Configurable 5 Person Drag System Models and Options:

- RS-DRD5M** 5 Person Drag System (Does not include additional recommended Positive Closure DRD option, spec separately)
- RS-DRD2S** 2 Extra shoulder DRD flaps and longer DRD to allow 2 extra hand holds (Does not include additional recommended Positive Closure DRD option, spec separately)
- RS-DRDLL** Knee DRD set, includes webbing hand holds, etc. (only available when replaceable knees are also specified)
- RS-DRDLT** Knee Leg Lift Scotchlite™ trimmed deployment tab (optional)

Note: All normal DRD options are also available and should be considered when these configurable DRD options are specified (i.e., Positive Closure coat DRD, Metro Style coat DRD, etc.).

Configurable 5 Person Drag System is available on Structural and Proximity LTO and BPR, as well as USR and EMS models.

It is strongly recommended that the Positive Closure DRD option be chosen with the Configurable 5 Person Drag System to make the coat more stable on the body with shoulder hand hold use.

Rescue Options Continue...

Rescue Options Continued...

Full Body Harness Coat

(Patented) NFPA 1983 Class III Certified (Anti-Inversion)

NFPA 1983 Class III certified harness (also ANSI 81014-91 and Z359.1-92 and CSA Z259.10-M90 compliant).

Class III harnesses are anti-inversion systems elements. As such, placement integration has presented unique design challenges. Our new approach makes donning/doffing easy and allows efficient deployment of the harness when desired.

This Custom Option is Available on:

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	<input type="checkbox"/> PRH			



Photo 1 – From exterior, a Class III harness equipped system is visually indistinguishable.



Photo 3– Lower torso portion of the harness is stored in a releasable pocket on the interior outer shell (note “grap” hooks on each lower corners).



Photo 6 – Here the clip hardware stored in the pockets is more clearly shown. Some fire departments also use this fall protection attachment for confined space rescue work. Also, please see our optional work positioning straps and attaching carabiners.



Photo 4 – When the flap is pulled, the lower torso portion of the harness is free to fall loose.



Photo 7 – Short and long work positioners are also available (long is standard).



Photo 2 – The upper chest harness strap closes with a bayonet clip that is engaged as the coat is closed. The bayonet clip is a quick, easy, yet secure closure. The storm flap then covers the clip as the first photo shows.



Photo 5 – Once the lower torso portion of the harness falls loose, the ends can be bayonet clip attached to the mating pieces that are stored in the coat pockets.



Photo 8 – Finally, the deployed harness with standard work positioner and carabiners in use.

Harness Bunker Pants

(Patented)

NFPA 1983 Class II Certified Harness

- Secure, comfortable ladder lock capabilities built into pants
- Emergency escape rappelling capabilities for every firefighter
- 1 step donning of NFPA 1971 certified bunker pants and NFPA 1983 certified class #2 safety harness
- Harness straps protected by storage inside outer shell of bunker pants
- Harness usable WITHOUT removal of bunker pants
- Harness does not reduce comfort or mobility during normal fire fighting activities



Increasingly, progressive fire departments (especially in the larger cities) are requiring individual firefighter escape/security systems. However, the use of these systems combined with the use of bunker pants has always been time consuming, bulky and frequently non-compatible.

This HARNESS PANTS SYSTEM integrates these two safety items into an effectively functioning package. The Harness is a specially designed NFPA 1983-Class 2 certified product. The pants are Morning Pride, NFPA 1971 (and Project FIRES in appropriate materials) certified bunker pants. The harness straps are stored between the outer shell and liners of the pants, so the straps are protected from the fire environment and the firefighter's body is cushioned from the ride of the harness straps. The harness weighs only 2½ pounds and is carried at the least stressful body point: the waist/hips (i.e. body center of gravity). One motion will close BOTH the bunker pants and the harness. Bunker pants with the harness installed still can be stored over fire boots. When the harness is not installed, the bunker pants may still be closed and used as traditional bunker pants.



Minimum appearance difference when harness is not being used. Our new standard narrow fly is shown; the older wider fly is also available.

This Custom Option is Available on:

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Prefix ID:	<input checked="" type="checkbox"/> BPR	<input checked="" type="checkbox"/> BPR	<input type="checkbox"/> USR	<input type="checkbox"/> EMS
	<input checked="" type="checkbox"/> LTO	<input checked="" type="checkbox"/> LTO	(Also EMS, Liquid Splash/HazMat, Wildland Certified)	
	<input type="checkbox"/> TAC	<input type="checkbox"/> PRH		
	<input type="checkbox"/> PRH			

The HARNESS PANTS CONCEPT was developed to be used only in combination with the Tailed Turnout Coat design concept (shown on page 1). The shortened front of the Tails concept allows easy access, attachment and use of the harness. Use of harness bunker pants with the bulky full length fronts of traditionally styled coats is specifically and strongly warned against!

Another Harness to Pant Interface System



Shows FDNY style loops for exterior (customer owned) harness placement and requires a wide fly.

FDNY pants and harness close non-standard right over left. Also available left over right (please specify preference on your order or you will receive FDNY right over left closure). Either closure method requires the wider fly shown. This FDNY style loop system works well with Gemtor brand (FDNY style) harnesses. If you utilize a different harness, please contact our Order Entry Group.

Rescue Options Continued...

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Prefix ID:	<input checked="" type="checkbox"/> BPR	<input checked="" type="checkbox"/> BPR	<input checked="" type="checkbox"/> USR	<input checked="" type="checkbox"/> EMS
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	<input checked="" type="checkbox"/> TAC	<input checked="" type="checkbox"/> PRH		
	<input checked="" type="checkbox"/> PRH			

BiFlex Heat Channel Shoulders

Patented and Patent Pending

During normal shoulder motion, body flexion occurs across the top of the shoulder and along planes of the upper chest and upper back. The varying hinge points of the BiFlex shoulder recreate and facilitate unopposed motion while still allowing unparallelled insulation.



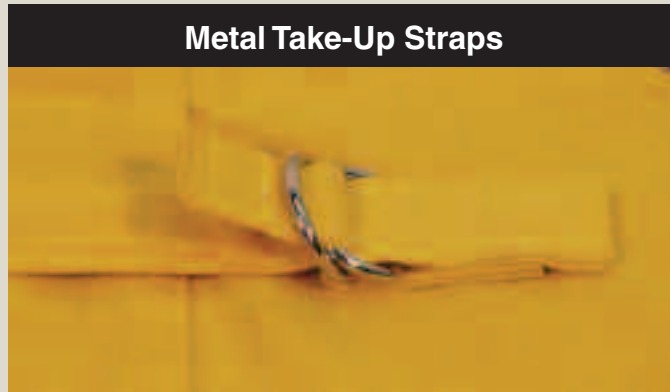
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Take-Up Straps

Take-up straps allow several inches of waist adjustment. They can also be used to transfer pants weight from shoulders (i.e. suspenders) to waist (the take-ups). Since the waist is closer to

the body's center of gravity (where it is less stressful to carry weight), this can reduce the stress load on the firefighter.



Metal Take-Up Straps

D-Ring Style Offers Economy



Our Metal Recommendation

Postman Slide Style Offers More Secure "Set"

Hi-Temp Nylon Take-Up Straps

Designed for Technical Rescue and Recovery gear, since users have asked us to minimize use of metal on these garments due to sparking concerns, we utilize hi-temp Nylon when take-up straps are optioned on both Technical Rescue and EMS garments.



Quick Release Hi-Temp Nylon