

## Full Bore Shift Up Tubing Release Procedures

### Running Procedure:

The LRI Fully Opening Shift-Up Tubing Release is used when dropping of the gun assembly to the bottom of the well bore is desired. Hole depth and tubing string will determine placement of shifting tool, however a minimum of 10m (32ft.) is recommended.

Make up and run the perforating assembly to the point of the Fully Opening Mechanical Tubing Release.

The Fully Opening Mechanical Tubing Release should be made up independently from the string and tightened only with the pipe wrenches insuring the wrenches are placed on the bottom half of the tool on the knurl and the tubing upset. (Power tongs should not be used)

**Note:** Do not apply torque through the Fully Opening Tubing Release when making up tubing onto the tool.

Make up the next pup joint in the assembly. Placing the back up wrench on the knurl on top of the Mechanical Tubing Release tighten the pup joint in with pipe wrenches only. (Again, power tongs should not be used)

To ensure the Fully Opening Mechanical Tubing Release will hold the weight of the perforating assembly before removing the slips pick up the string 2 – 3 ft.

Remove slips and continue running assembly in the hole.

### Precautions:

To avoid accidental/premature shifting of the guns LRI recommends spacing the Mechanical Tubing Release at least 10m from the Firing Head, as the drop bar can be jarred up and accidentally shift the tool when the carriers are fired.

Any openings in the assembly if possible should be kept above the Mechanical Tubing Release as well flow could wash open the shifting sleeve prematurely dropping the carriers.

The fluid cushion should be kept well above the Mechanical Tubing Release to prevent the rush of fluid from shifting the tool string prematurely when the drop bar hits the fluid.

Always insure that there are no restrictions smaller than the shifting sleeve I.D. above the Mechanical Tubing Release. Restrictions will prevent the shifting tools from reaching the Mechanical Tubing Release.

If swedging down to smaller tubing (i.e. 2 7/8 to 2 3/8) the tubing joint directly below the Mechanical Tubing Release should be the same size as the shifting tool needs to pass through the Release then back up to shift the string.

Insure that all tools run inside the tubing string (logging, swabbing, ect.) are kept well away from the Mechanical Tubing Release to prevent them from getting stuck in the shifting tool causing accidental dropping of the guns.

### Releasing Procedures:

If possible the drop bar should be retrieved prior to shifting the release, this is not necessary, however is a good reference for depth control. Be sure to run the proper overshot, LRI drop bars have 1 inch fish necks.



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Use an Otis type “B” shifting tool with selective keys corresponding to the I.D. of the shifting latch.

The shifting tool should pass all the way through the Mechanical Tubing Release then pick up to engage the shifting latch, gently jar up to shear the screws that hold the latch in place and shift the tool.

After jarring proceed down hole to verify that the guns have dropped off, if the guns have not dropped continue jarring until guns drop.

Once the guns have dropped, the shifting tool can then be returned to surface.