

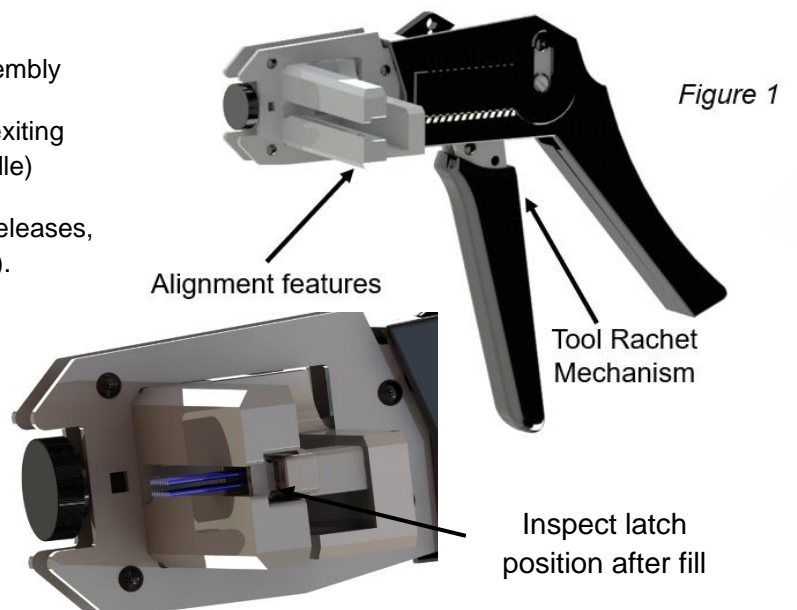
## Introduction

Marry Shield Hand Tool CAT-IN-B1SD-01-12 was designed to marry SH149-XX-N with B1SDR-XX.

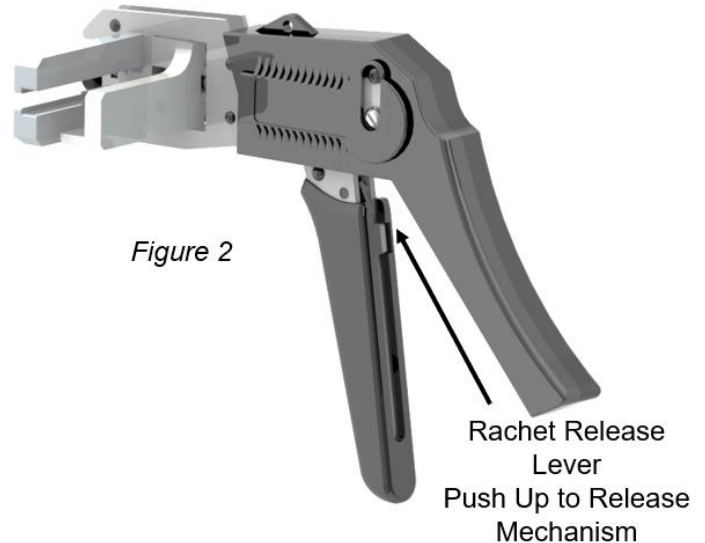
This tool should only be used for the shields and bodies specified on this document. The tool is not adjustable. Variation in production batches of tools, connectors, shields, and body types may affect marry parameters.

## Marrying Procedure

1. Pre-load shield & rear body over cable assembly
2. Load pre-loaded cable into tool with cable exiting toward the front of the tool (away from handle)
3. Squeeze the handles until the tool ratchet releases, allowing the handles to fully open (Figure 1).
4. Unload cable and verify latch position



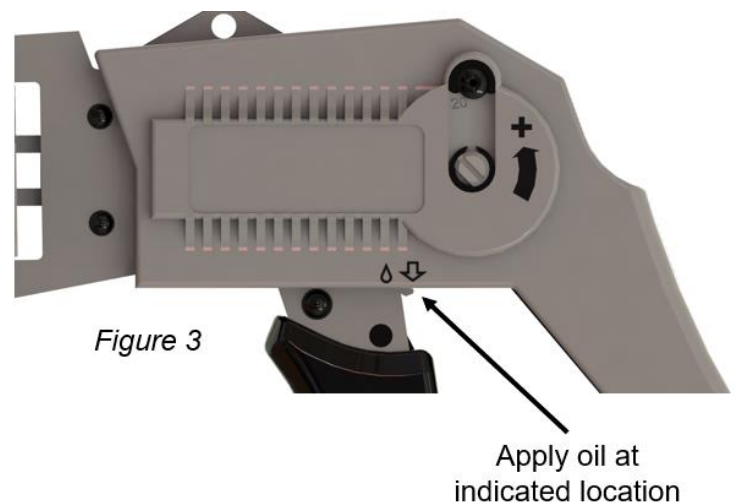
**CAUTION:** Should a cable become stuck or jammed in a partially closed position, DO NOT use force to open or close the handles. The tool will easily open by pushing the ratchet release lever up (Figure 2).



### Tool Maintenance

It is recommended that each operator of the tool be made aware of, and be responsible for, following these maintenance steps:

- The tool was engineered for durability. However, for maximum service life and trouble-free use, establish a good process of scheduled maintenance and lubrication.
- Remove dust, moisture and other contaminants with a clean brush or soft, lint-free cloth ONLY.
- Make certain all pins, pivot points and bearing surfaces are protected with a thin coat of high quality machine oil. Do NOT oil excessively (Figure 3).
- Wipe excess oil from the hand tool, particularly from the marrying area.
- It is recommended to use light oil on all pivot points every 5000 cycles, or every 3 months.
- When tool is not in use, keep the handles closed to prevent objects from becoming lodged in the marrying area.
- Store the tool in a clean dry place.



## Adjusting the Handle Pre-Load

The tool is calibrated at the factory to the optimum pre-load required to achieve a proper marry. It may become necessary, over the life of the tool, to adjust the handle pre-load force.

Follow the steps below to adjust the marrying force of the hand tool to obtain proper assembly parameters (Figure 4):

- Remove 2mm locking screw from the adjustment wheel using TORX head wrench.
- Using a small screwdriver, turn the adjustment wheel to the next marked position.
- The tool uses an eccentric axle linkage mechanism. To increase the handle pre-load, move the wheel clockwise to the next highest odd number, or counterclockwise to the next highest even number.
- Turn the wheel until the desired number is located over the 2mm tapped hole.
- Replace the 2mm locking screw, aligning the nearest notch in the setting wheel.
- Conduct a pull test after the tool handle pre-load force is adjusted. Repeat the steps until the desired marry performance is obtained.

