

**FORT WAYNE
TACTICAL LLC**



TEST RESULTS AND EVALUATION REPORT

Ruger LC9 Test & Evaluation

Fort Wayne Tactical LLC

July 9th 2015

Revision Sheet

Release No.	Date	Revision Description
Rev. 1	9 JUL 2015	Test Results Published

Disclaimer:

Fort Wayne Tactical LLC testing data provided for reference only. This data should not be used as conclusive evidence of any material trait or property. Tested articles were not furnished by any manufacturer and were purchased off the shelf from local suppliers. Consequently many variables in this test remain uncontrolled. Numerical data should be only used as reference.

The opinions in this report are those of Fort Wayne Tactical LLC alone and not those of any third party or manufacturer.

None of the information provided should be interpreted to imply a warranty or guarantee.

*Altering any product comes with risks, Fort Wayne Tactical LLC and it's agents assume no liability for injury to the buyer or anyone residing with or operating with the buyer. The buyer is solely responsible party for the use of their firearm.

* Modifying a firearm may nullify the manufacturer's warranty. You are solely responsible for the safe use and keeping of a firearm.

* Pistols, with or without modifications should be carried only in a holster designed to protect the trigger. Failure to do so may result in injury or death to the user or individuals around the user.



Test Results and Evaluation Report

1.0 BACKGROUND

1.1 Purpose

The purpose of this test report is to document the acceptability and verification testing of the Fort Wayne Tactical LLC Ruger LC9 Mission Select Trigger Kit FTW-RU0003.

1.2 Scope

The scope of this document includes testing and acceptability for the Fort Wayne Tactical LLC Ruger LC9 Mission Select Trigger Kit FTW-RU0003:

- Establishes Acceptability of 6.0lb trigger pull weight through analysis of Publicly Available US Military Specifications.
- Establish Testing Rationale for Firing and Primer Interface Testing.

1.2 References

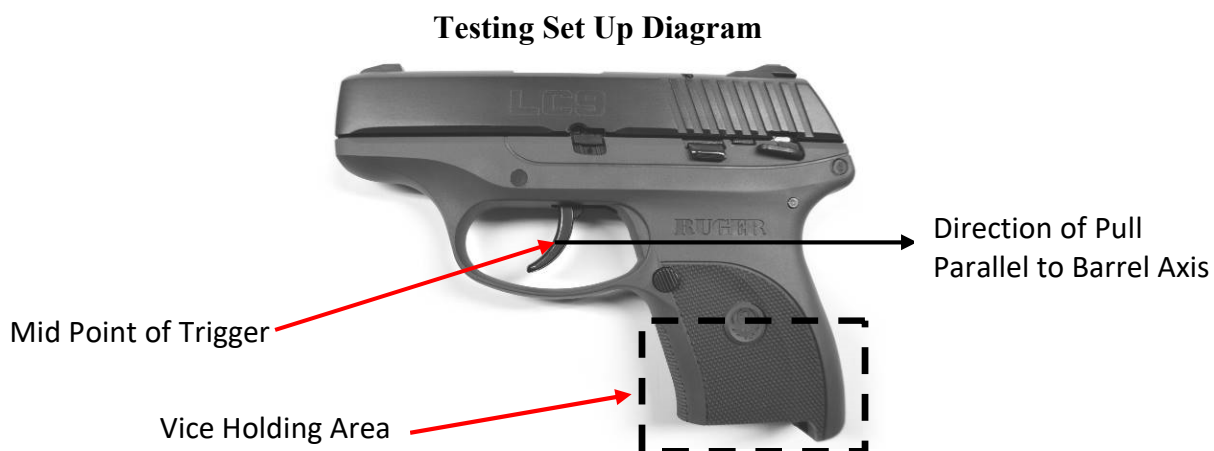
Trigger Weight Table (Min/Max) Mil-Spec

Pistol	Single Action	Double Action	Specification
Match Grade 22 Cal	(2lb / 3.75lb)	Not Specified	MIL-P-45592
22 Cal General	(2.25lb / 3.25lb)	Not Specified	MIL-P-45575
M9	(4lb / 6.4 lb)	(9.9lb /16.1lb)	MIL-P-48655
.38 Special Revolver	(2.75lb / 3.5lb)	<14lb	MIL-R-9979A
X - M11	(4lb / 6.4lb)	(8.8lb/16.1lb)	MIL-P-71012

2.0 TESTING AND RESULTS

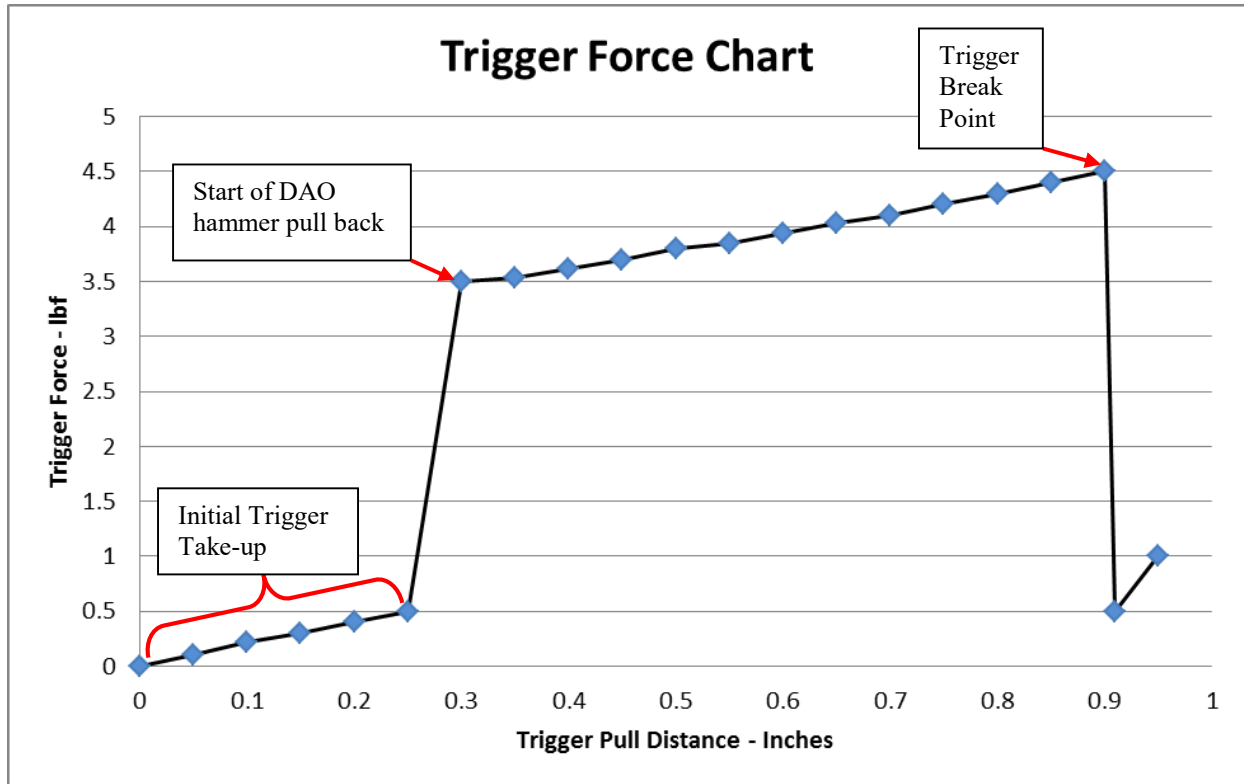
2.1.1 Test Methodology

The pistol will be held in a padded vice. Load shall be applied parallel to barrel bore axis in the middle of trigger bar. Measurements for the force at which with trigger breaks shall be recorded. This test is similar to protocols for military test specifications. Tests will be performed with a test scale; gridded camera analysis will be utilized to determine distance (X Axis).



2.1.2 Test Results

Stock		FWT LC9 Kit Installed	
AVG lbf	STD Dev.	AVG lbf	STD Dev.
8.1	.23	6.0	.17



2.1.3 Test Analysis

Test results indicate an approximate 6.0lb trigger pull was accomplished. Analysis of Mil-Specs indicate 6.0lbs is an acceptable trigger weight for pistols. Design intent for a reduced trigger pull was met (~2lb reduction accomplished).

2.2.1 Test Methodology

Due to Mil-Spec shift of test acceptability from firing pin indent to binomial data (Pass/Fail) ref. MIL-P-71012, the methodology utilized mirrored acceptance testing for MIL-P-71012 (M11) methodology.

A Fort Wayne Tactical LLC Ruger LC9 Mission Select Trigger Kit (FWT-RU0003) was installed on a Ruger LC9 pistol and fired with 400 rounds reloaded with CCI primers. This ammunition were determined to be worst case in terms of hardness (CCI) (see Primer Hardness Testing Report). Winchester ammunition was also utilized for testing, as a negative control (and because testing is fun).

Primer	Rounds Prepared	Reload or Factory
CCI Small Pistol	400	Reload
Winchester	100	Factory

The following images are of ammunitions utilized in this test which have been included in this report to document primer indent size.

CCI Small Pistol Primers (Reloads)



Winchester (Factory Ammunition)



2.2.2 Test Results

Primer	# Fired	# Failed	% Reliability
CCI Small Pistol	400	0	100%
PPU	100	0	100%

2.2.3 Test Analysis

Testing indicates the design is accepted for requirements for reliability (100% as determined by test methodology).

SUMMARY AND CONCLUSIONS

3.1 Summary

Test results indicate an acceptable level of performance in terms of trigger weight reduction (approximately 2lbs reduction) and Reliability (tested 100%).

3.2 Deficiencies

Variability in distance pull measurements via recording camera and image analysis will have variability versus force gaging. However, the variability is well within limits and considered acceptable for test purposes.

3.3 Conclusions

Test results are passing, and indicate an acceptable level of confidence for performance and reliability in previously determined worst case ammunition.

3.4 Future Testing

No future development testing is necessitated. Testing will be conducted only on a receiving inspection basis to ensure performance of product.