# **TAKEDOWN SCREW MOVEMENT TEST**

### Objective:

Measure the movement if any that occurs with the takedown screws when subjected to normal handling/shooting environments.

#### Tests 1:

- 1. Bias stock to center trigger. Set torque of front and middle screw to 40 ft/lbs.; hand tighten back screw.
  - Tap on gun stock in several locations on shooter's left and right
  - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.
- 2. Bias stock to center trigger. Set torque of front and middle screw to 60 ft/lhs; hand tighten back screw.
  - Tap on gun stock in several locations of shooter's felt and right
  - Measure torque w/ torque wrench-measurement should to taken from force needed to loosen screw.

#### Test 2:

- 3. Bigs stock to ceiffer trigger. Set torque of front and middle screw to 40 ft/lbs.; hand tighten back screw.
  - Tap on win stock in several locations on shooter's left and right
  - Retighten screws
  - Tap on gun stock in several locations on shooter's left and right
  - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.
- 4. Bias stock to center trigger. Set torque of front and middle screw to 60 ft/lbs.; hand tighten back screw.
  - Tap on gun stock in several locations on shooter's left and right
  - Retighten screws
  - Tap on gun stock in several locations on shooter's left and right
  - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.

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#### Tests 3:

- 5. Bias stock to center trigger. Set torque of front and middle screw to 40 ft/lbs.; hand tighten back screw.
  - Tap on gun stock in several locations on shooter's left and right
  - Retighten screws
  - Tap on gun stock in several locations on shooter's left and right
  - Retighten screws
  - Tap on gun stock in several locations on shooter's left and right
  - Retighten screws
  - Tap on gun stock in several locations on shooter's left and right
  - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.
- 6. Bias stock to center trigger. Set torque of front and middle screw to 60 ft/lbs.; hand tighten back screw.
  - Tap on gun stock in several locations on shooter's left and right
  - Retighten screws
  - Tap on gun stock in several locations on shooters left and right
  - Retighten screws
  - Tap on gun stock in several locations on shooter's left and right
  - Retighten screws
  - Tap on gun stock in several locations on shooter's left and right
  - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw

#### Tests 4

- 7. Bas stock to center trigger. Set torque of front and middle screw to 40 ft/lbs.; hand tighten back screw.
  - Tap on gun stock in several locations on shooter's left and right
  - Retighten Screws
  - Shoot (1) proof + (2) regular rounds
  - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.
- 8. Bias stock to center trigger. Set torque of front and middle screw to 60 ft/lbs.; hand tighten back screw.
  - Tap on gun stock in several locations on shooter's left and right
  - Retighten Screws
  - Shoot (1) proof + (2) regular rounds

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• Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.

#### Tests 5:

- 9. Seat stock in natural position before setting screws. Set torque of front and middle screw to 40 ft/lbs.; hand tighten back screw.
  - Shoot (2) regular rounds
  - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.
- 10. Seat stock in natural position before setting screws. Set torque of front and middle screw to 50 ft/lbs.; hand tighten back screw.
  - Shoot (2) regular rounds
  - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.
- 11. Seat stock in natural position before setting screws. Set torque of front and middle screw to 60 ft/lbs.; hand tighten back screw.
  - Shoot (2) regular rounds
  - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw

#### TEST 6:

- 12. Sear stock in natural position before setting screws. Set torque of front and middle screw to 40 ft/lbs. Torque back screw to 20 ft/lbs.
  - ---USE 4 guns
    - Shoot (5) magazines (20) regular rounds
    - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.
  - 13. Set stock in natural position before setting screws. Set torque of front and middle screw to 60 ft/lbs.; torque back screw to 20 ft/lbs.
  - --- USE 4 guns
    - Shoot (5) magazines (20) regular rounds
    - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.

#### **TEST 7:**

- 14. Seat stock in natural position before setting screws. Set torque of front and middle screw to 40 ft/lbs.; torque back screw to 20 ft/lbs.
- --- USED 2 guns

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- Shoot (5) magazines (20) regular rounds off shoulder
- Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.
- 15. Set stock in natural position before setting screws. Set torque of front and middle screw to 60 ft/lbs.; torque back screw to 20 ft/lbs.
- --- USED 2 guns
  - Shoot (5) magazines (20) regular rounds off shoulder
  - Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.

#### RESULTS:

#### **TEST 1.1**

	Before test	After Test	% Reduction
Front	40	32.5	18.75
Middle	40	38.5	3.75
Back	10	8	20

#### TEST 1.2

	Before test	After test	% Reduction
Front	60	્ર <sup>ાકે</sup> 45ે.	25
Middle	.60	42.5	29.2
Back	10	\$ 9 ° }.	10

### **TEST 2.3**

	<u> (1871 - 1871 - 1884 - 1</u>		
	Before test	After test	% Reduction
Front	40	30	25
Middle	40	35	12.5
Back	10	9	10

### **TEST 2.4**

	Before test	After test	% Reduction
Front	60	48	20
Middle	60	44	26.7
Back	10	8	20

**TEST 3.5** 

	Before test	After test	% Reduction
Front	40	35_	12.5
Middle	40	39	2.5
Back	10	10	0

**TEST 3.6** 

	Before test	After test	% Reduction
Front	60	45	25
Middle	60	48_	20.0
Back _	10	10	0

**TEST 4.7** 

	Before test	After test	% Reduction
Front	40	20	50
Middle	40	وي 28	30.0
Back	10	8 📆	20

TEST 4.8

42 Par.			ARIES.
1845). 1845).	Before test	After test	% Reduction
From:	60	32	46.7
Middle	60	40	33.3
Back #	10	9	10

TEST 5.9

	Before test	After test	% Reduction
Front	40 _	25	37,5
Middle	40	35	12.5
Back	10	5	50

**TEST 5.10** 

	Before test	After test	% Reduction
Front	50	25	50
Middle	50	32	36.0_
Back	10	0	100

# **TEST 5.11**

	Before test	After test	% Reduction
Front	60	53	11.6666667
Middle	60	50_	16.7
Back	10	10	0

# TEST 6.12-1

	Before test	After test	% Reduction
Front	40	10	75
Middle	40	28	30.0
Back	20	18	10

#### TEST 6.12-2

	Before test	After test	% Reduction
Front	40	20 <sup>يو</sup>	50
Middle	40	28	30.0
Back	20	14	30

# **TEST 6.12-3**

ENNIE	Before test	After test	% Reduction
Front	40	<u>1</u> 9	52.5
Middle	40	30	25.0
Back	20	14	30

## TEST 6.12-4

	Before test	After test	% Reduction
Front	40	18	55
Middle	40	30	25.0
Back	20	13	35

# AVERAGE TEST RESULT of 6-12:(1-4)

	Before Test	After test	% Reduction
FRONT:	40	16.75	58.2
MIDDLE:	40	29	27.5
BACK:	20	14.75	26.3

# TEST 6.13-1

	Before test	After test	% Reduction
Front	60	30	50_
Middle	60	32_	46.7
Back	20	15	25

### **TEST 6.13-2**

	Before test	After test	% Reduction
Front	60	18	70.0
Middle	60	42	30.0
Back	20	18	10 3

#### TEST 6:13-3

	Before test	After test	% Reduction
Front	40 😘	<b>.</b> 28 🧗	4 30 a d
Middle :::	40	40	0.0
Back	20	. 16	20
03340000 10.	17 CL/25 R/N TA	151	

## **TEST 6.13-4**

	Before test	After test	% Reduction
Front	60	25	58.3333333
Middle	60	38	36.7
Back	20	13	35

# AVERAGE TEST RESULT of 6-13:(1-4)

	Before Test	After test	% Reduction
FRONT:	60	25.25	57.91
MIDDLE:	60	38	36.67
BACK:	20	15.5	22.5

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**TEST 7.14-1** 

	Before Test	After test	% Reduction
Front	40	28	30
Middle	40	30	25.0
Back	20	10	50

### **TEST 7.14-2**

	Before Test	After test	% Reduction
Front	40	35	12.5
Middle	40	30	25.0
Back	20	13	35

### **AVERAGE TEST RESULT of 7-14(1-2)**

_	Before Test	After test	% Reduction
FRONT:	40	31:5	21.3
MIDDLE:	40	30	25
BACK:	20	11.5	42.5

#### TEST 7.15-1

	Before Test	After test	% Reduction
Front 💤 👢	60	42	30
Middle	60.	38	36.7
Back,	20	15	25
7. V			

## **TEST 7.15-2**

Carlos Carlos	Before Test	After test	% Reduction
Front	60	38	36.7
Middle	60	38	36.7
Back	20	16	20

# AVERAGE TEST RESULT of 7-15:(1-2)

	Before Test	After test	% Reduction
FRONT:	60	40	33.33
MIDDLE:	60	38	36.67
BACK:	20	15.5	22.5

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