# **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/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.

Test 2:

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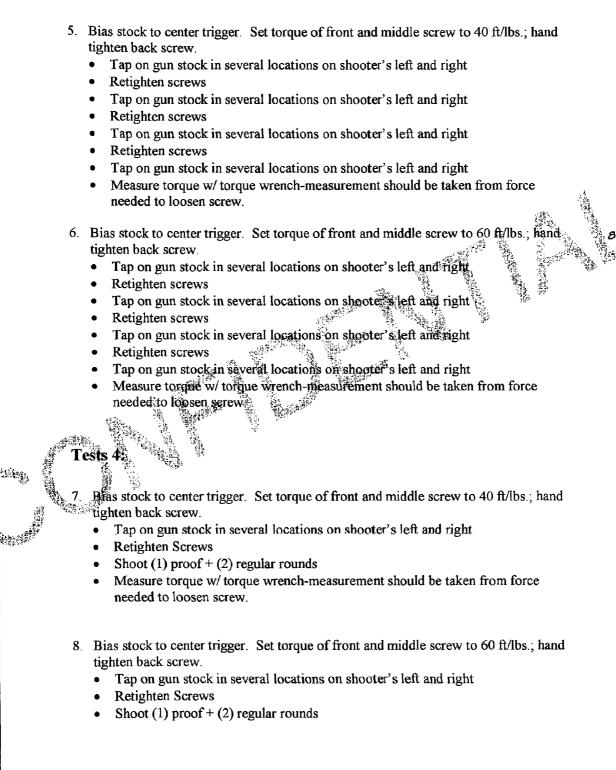
3. Bias stock to center trigger. Set torque of front and middle screw to 40 ft/lbs.; hand tighten back screw.

- Tap on 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:



• 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:

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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

- Shoot (5) magazines (20) regular rounds off shoulder
- Measure torque w/ torque wrench-measurement should be taken from force needed to loosen screw.

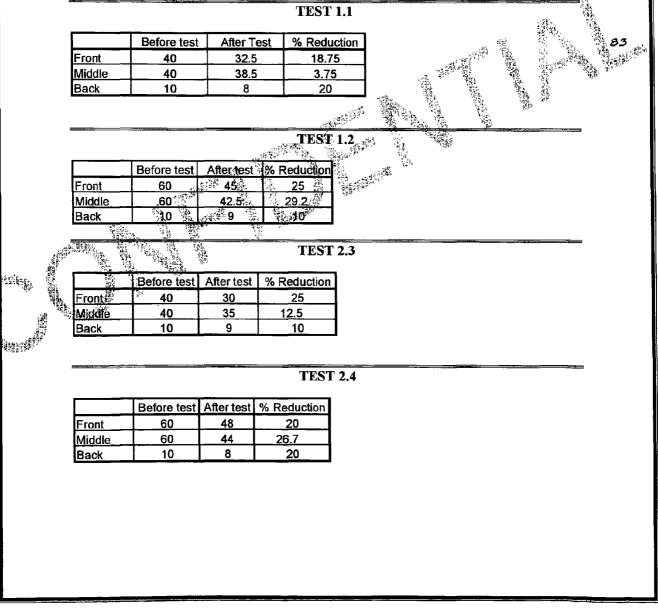
15. Set stock in natural position before setting screws. Set torque of front and middle screw to 60 ft/lbs.; torque back screw to 20 ft/lbs.

---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:

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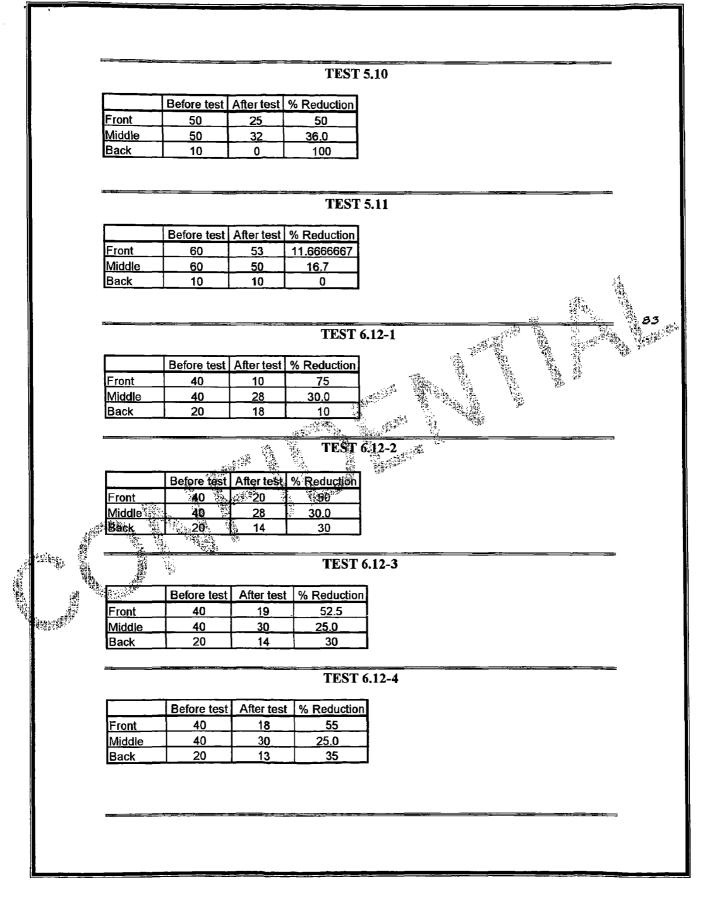
**TEST 3.5** 

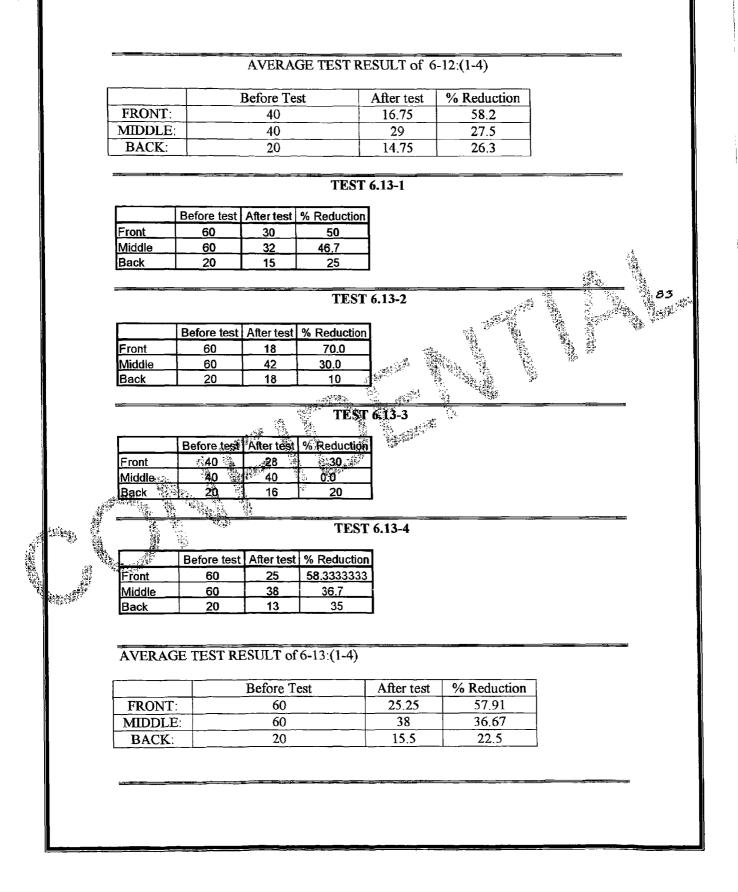
				TEST 3.5		
		Before test	Aftertest	% Reduction		
	Front	40	35	12.5		
	Middle	40	39	2.5		
	Back	10	10	0		
		<u></u>		TEST 3.6		
	<del>.</del>	Before test	After test	% Reduction		
	Front	60	45	25		2. 2.
	Middle	60		20.0		
	Back	10	10	0		
	TEST 4.7					
		Before test			<b>m</b> 職(1)33355 [張二 ]	
	Front	40	20	50		a
	<u>Middle</u> Back	<u>40</u> 10	<u>28</u> 8			
	DACK		L			
		<u></u>		TEST 4.8	100 mm	
					1	
નાવે	±3,755 2,18+355 2,18+355 2,18+355 2,18+355 2,18+15555 2,18+15555 2,18+15555 2,18+15555 2,18+155555 2,18+155555 2,18+1555555 2,18+1555555555 2,18+155555555555555555555555555555555555	Before test	M (10)			
- 500 - 500 - 500 - 500 - 500 - 600	Front		32	46.7	4	
	Middle Back	60	<u>40</u> 9	<u>33.3</u> 10	4	
164. 1997 164. 1997	Васк а	10	Га	1 10	1	
1528 (38)					<u></u>	
				TEST 5.9	)	
		Before test	After test	% Reduction		
	Front	40 _	25	37.5		
	Middle	40	35	12.5		
			5			

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	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)

AVERAGE TES	ST RESULT of 7-14(1-2)		405 405 405 405 405 405 405
	Before Test	After test	% Reductio
FRONT:	40	315	21.3
MIDDLE:	40	30	25
BACK:	20	11.5	42:5



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-		a reit and a second		TEST	7. <b>15-1</b>
		Before Test	After test	% Reduction	
	Front 🔬	60	42	30	]
	Middle 😚	60 🕺	<u>3</u> 8	36.7	
ġ.	Back 👯	20	15	25	
		1. 1993) 			
	37			TEST	7.15-2

and the second Before Test After test % Reduction Front 60 38 36.7 Middle 60 38 36.7 16 20 Back 20

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# 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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