

Test Lab Work Request Form

Rev.3 -20 April, 2000

Date Submitted: 6/25/04	Tracking # : TLW 1541
Project # : 241402	Engineer: Franz
Test Objective: Conduct E-town's part of the DAT test protocol for the 870 MCS. Tests to include all four Thermal Tests (Cold, Hot, Heat & Humidity, and Thermal Cycle), Salt Fog and Solvent testing.	
Test Description: <ul style="list-style-type: none"> ➤ Complete the four Thermal Tests as outlined in the M/870 MCS DAT Test Plan. A copy of each test procedure from this plan will accompany this TLW Request. ➤ Complete the Salt Fog Test as per Test Plan procedures. See attached document. ➤ Complete Solvent testing on the Fore-end, Pistol Grip, Stock? and Ammo Carrier using the list of solvents typically used in previous test plans. For the Ammo Carrier we want to access the attachment to the side panel of the receiver only. (Todd Cook to handle this test) 	
NOTE: Use the two complete MCS Systems received on 6/24/04. Use new parts for each test except for Receiver Assembly, Bolt Assembly and barrel. Additional parts will be supplied.	
Resource Usage: Manpower Requirements -1 Technician Facility Requirements -Environmental, F&C, Salt Fog, Metallurgical Lab	Test Results Required: Formal Report: X Data Only: Requested Completion Date: 7/9/04
Required Materials/Parts/Equipment (include quantities): 2 MCS systems, 6 sets of accessory parts(stocks, extensions, magazine springs, accessory brackets, etc.)	
Test Parts Availability Date: On Hand	
Start Date: 6/28/06 Completion Date: 7/28/04 Report Date: 7/29/04	Test Assigned To: Steve Wade Assignment Date: 06/28/04

ET20073

PROJECT # 241402
ENG: SCOTT FRANZ

M/870 MCS MODULAR COMBAT SHOTGUN

TRACKING # TLW 1541
7/29/2004

SERIAL # HEADSPACE PROOF RD HEADSPACE
LM001025 MIN + .004 OK MIN + .004

TRIGGER
PULL

6.00

6.00

6.25

6.00

6.00

AVG
6.05

DUMMY
ROUNDS

CYCLED 2 3/4" AND 3" DUMMY ROUNDS 3-TIMES (OK).

REGULAR STOCK

TLW1541A

ASSEMBLY / DISASSEMBLY OF (STOCK, BARREL, MAGAZINE
EXTENSION) AFTER 24 HOURS AT 120 F IN ENVIRONMENTAL
CABINET. GUN WAS EASIER TO ASSEMBLE AND DISASSEMBLE
AT 120 F.

DUMMY
ROUNDS

CYCLED 2 3/4" AND 3" DUMMY ROUNDS 3-TIMES (OK).

TLW1541A

HOT FUNCTION TEST. FIRED 100 RDS OK.

TLW1541B

ASSEMBLY / DISASSEMBLY OF (STOCK, BARREL, MAGAZINE
EXTENSION) AFTER 24 HOURS AT -20 F IN ENVIRONMENTAL
CABINET. RUBBER ON PISTOL GRIP AT -20 F VERY STIFF MAK-
ING IT VERY HARD TO GET OFF AND ON TO DISASSEMBLE AND
ASSEMBLE.

DUMMY
ROUNDS

CYCLED 2 3/4" AND 3" DUMMY ROUNDS 3-TIMES (OK).

TLW1541B

COLD FUNCTION TEST. FIRED 100 RDS (ACTION HARD TO
CYCLE FIRST ROUND AFTER TAKING GUN FROM FREEZER.)

TLW1541D

ASSEMBLY / DISASSEMBLY OF (STOCK, BARREL, MAGAZINE
EXTENSION) AFTER 17 HOURS AT + 120 F AND 80 % RELATIVE
HUMIDITY IN ENVIRONMENTAL CABINET. (GUNS EASY TO
ASSEMBLE / DISASSEMBLE.)

DUMMY
ROUNDS

CYCLED 2 3/4" AND 3" DUMMY ROUNDS 3-TIMES (OK).

TLW1541D

HEAT AND HUMIDITY TEST. FIRED 100 RDS (OK)

TLW1541C

THERMAL CYCLE TEST. (SHOT 100 RDS BEFORE TEST). OK
CYCLED BEWEN A TEMPERATURE OF 120 F AND -20 F IN 24
HOUR INCREMENTS FOR 3 COMPLETE CYCLES.

TLW1541C

ASSEMBLY / DISASSEMBLY OF (STOCK, BARREL, MAGAZINE
EXTENSION) AFTER THERMAL CYCLE GUNS EASY TO
ASSEMBLE / DISASSEMBLE

DUMMY
ROUNDS

CYCLED 2 3/4" AND 3" DUMMY ROUNDS 3-TIMES (OK).

ET20074

PROJECT # 241402
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M/870 MCS MODULAR COMBAT SHOTGUN

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TRACKING # TLW 1541
7/29/2004

TLW1541C THERMAL CYCLE TEST (SHOT 100 RDS AFTER TEST). OK

CLEANED AND INSPECTED (OK).

TLW1541E SALT FOG TEST.
ASSEMBLY / DISASSEMBLY OF (STOCK, BARREL, MAGAZINE
EXTENSION) AFTER 24 HOURS IN SALT FOG TEST. GUN A LITTLE
HARD TO DISASSEMBLE AND ASSEMBLE.
PICTURE TAKEN (JS).

CLEANED AND OILED.

ET20075

PROJECT # 241402
ENG: SCOTT FRANZ

M/870 MCS MODULAR COMBAT SHOTGUN

TRACKING # TLW 1541
7/29/2004

SERIAL #	HEADSPACE	PROOF RD	HEADSPACE					AVG
LM001064	MIN + .002	OK	MIN + .003					
	TRIGGER PULL	6.50	6.75	6.50	6.75	6.50		6.60
	DUMMY ROUNDS	CYCLED 2 3/4" AND 3" DUMMY ROUNDS 3-TIMES (OK).						
PISTOL GRIP STOCK								
TLW1541A	ASSEMBLY / DISASSEMBLY OF (STOCK, BARREL, MAGAZINE EXTENSION) AFTER 24 HOURS AT 120 F IN ENVIRONMENTAL CABINET. GUN WAS EASIER TO ASSEMBLE AND DISASSEMBLE AT 120 F.							
	DUMMY ROUNDS	CYCLED 2 3/4" AND 3" DUMMY ROUNDS 3-TIMES (OK).						
TLW1541A	HOT FUNCTION TEST. (PISTOL GRIP BROKE AT 35 RDS. BOLT THAT HOLDS PISTOL GRIP ON POSITION OF PISTOL GRIP IN SHOOTING JACK CAUSED IT TO BRAKE.) JODY CARSON MADE FIXTURE TO SUPPORT PISTOL GRIP IN SHOOTING JACK. FIRED 65 RDS WITH FIXTURE EVERYTHING OK.							
TLW1541B	ASSEMBLY / DISASSEMBLY OF (STOCK, BARREL, MAGAZINE EXTENSION) AFTER 24 HOURS AT -20 F IN ENVIRONMENTAL CABINET. RUBBER ON PISTOL GRIP AT -20 F VERY STIFF MAKING IT VERY HARD TO GET OFF AND ON TO DISASSEMBLE AND ASSEMBLE.							
	DUMMY ROUNDS	CYCLED 2 3/4" AND 3" DUMMY ROUNDS 3-TIMES (OK).						
TLW1541B	COLD FUNCTION TEST. FIRED 100 RDS (ACTION HARD TO CYCLE FIRST ROUND AFTER TAKING GUN FROM FREEZER.)							
TLW1541D	ASSEMBLY / DISASSEMBLY OF (STOCK, BARREL, MAGAZINE EXTENSION) AFTER 17 HOURS AT + 120 F AND 80 % RELATIVE HUMIDITY IN ENVIRONMENTAL CABINET. (GUN EASY TO ASSEMBLE / DISASSEMBLE.)							
	DUMMY ROUNDS	CYCLED 2 3/4" AND 3" DUMMY ROUNDS 3-TIMES (OK).						
TLW1541D	HEAT AND HUMIDITY TEST. FIRED 100 RDS (OK)							
TLW1541C	THERMAL CYCLE TEST. (SHOT 100 RDS BEFORE TEST). OK CYCLED BETWEEN A TEMPERATURE OF 120 F AND -20 F IN 24 HOUR INCREMENTS FOR 3 COMPLETE CYCLES.							
TLW1541C	ASSEMBLY / DISASSEMBLY OF (STOCK, BARREL, MAGAZINE EXTENSION) AFTER THERMAL CYCLE GUNS EASY TO ASSEMBLE / DISASSEMBLE							

ET20076

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M/870 MCS MODULAR COMBAT SHOTGUN

83
TRACKING # TLW1541
7/29/2004

DUMMY CYCLED 2 3/4" AND 3" DUMMY ROUNDS 3-TIMES (OK).
ROUNDS

TLW1541C THERMAL CYCLE TEST. (SHOT 100 RDS AFTER TEST). OK
CLEANED AND INSPECTED (OK)

TLW1541E SALT FOG TEST.
ASSEMBLY / DISASSEMBLY OF (STOCKS, BARRELS, MAGAZINE
EXTENSIONS) AFTER 24 HOURS IN SALT FOG TEST. GUN A LITTLE
HARD TO DISASSEMBLE AND ASSEMBLE. PISTOL GRIP HARD
TO ASSEMBLE ON RECIEVER.
PICTURE TAKEN (JS).

CLEANED AND OILED.

ET20077