

DATE REQUESTED 1-4-75 WORK ORDER E0262DESIGNER OR ENGINEER A. HUECKMODEL 700 CAL OR GAUGE 30/06 BARREL TYPE RDCTYPE OF TEST

NEW DESIGN _____ DESIGN CHANGE _____

DRY CYCLE _____ ACCURACY _____ HAND LOADING _____ STRESS _____

PRESSURE _____ MUZZLE VELOCITY _____ FUNCTION _____ PHOTOS _____

EVALUATION _____ BOLT VELOCITIES _____ OTHER Drop TestESTIMATED COMPLETION DATE 6-16-75REPORT REQUIREDFORMAL _____ INFORMAL X TEST RESULTS ONLY _____TEST OBJECTIVEDrop Test M700 RIFLE InvestigationGUNS REQUIRED6631671 - M700 30/06 RDC

TEST COMPLETION DATE _____ SIGNED _____

CONDITIONS :

- SAFE - ON
- PEN ON LUM DROP TEST
- CRUISER IN CHAMBER EACH TEST FOR NO.
- ONE PER HEIGHT
- ONE FIRE CONTROL & STRIKER PER PROB
- DROP HEIGHTS : 6, 12, 18, 24, 30, 36, inches
- M700 CONDOR GUN ASSEMBLY
- DROP SUCH THAT RIFLE HITS ON
EXPOSED PROJECTION OF STRIKER (EXTEN
STOP SURFACE VIA STEEL SURFACE.
- RECORD RIFLE WEIGHT
- NEW BOLT PLUG PER DROP.
- TRIGGER PULL AND SEAL ENGAGEMENT
SET TO MEAN,

WT: 7.50 lbs.

PICTURES

TO W.B. LEEK

CC: ED BARRETT

MODEL _____ CAL _____ SEV. "KO" _____ TRIGGER _____
 CAL. S.N. _____ DROP HEIGHT _____ DEADING _____

MODEL	IMPACT SPEED	6"	12"	18"	24"	30"	36"
IMPACT SPEED	~						
DEFINITE PIV. FALL?	YES NO						
INDICATE FALLING							
BEFORE							
DAMAGE TO							
IF SO, WHAT?							
$V_f = \sqrt{8AD}$							
$V_f = 13.4322 \sqrt{D}$							
$V_f = 16.0497 \sqrt{D}$							
$J = 11.3 \frac{CF}{\sqrt{K}}$							
12	16.0	5.6					
18	19.6	2.1					
24	22.7	2.7					
30	25.9						
36	27.0	2.4					

FIRING PIN INVESTIGATION

SAMPLE ORIGIN: FINAL ASS'Y TEST DATE: 6-23-75 TESTED: LHO - CJM

MODEL: 700 CALIBER: 30-06 BDL SER. NO.: 6031671 TRIGGER RVL3 SPEC.

DROP HEIGHT, IN.	6	12	18	24	30	36
KINETIC ENL., FT.-LBS	3.8	7.5	11.2	15.0	18.8	22.5
IMPACT SPEED, FT./SEC	11.3	16.0	19.6	22.7	25.4	27.8

GUN WEIGHT AS DROPPED: 7.50 POUNDS

SAFE POSITION AFTER ON ON ON ON ON ON

DID FIRING PIN FALL? NO NO NO NO NO NO

INDENT @ FALL 0.001" — — — — —

F. PIN FALL OK? YES YES YES YES NO NO

ANY PART DAMAGE? NONE

WHAT? ① ② ③ ④ ⑤ ⑥

PROCEDURE: NEW FIRING PIN ASS'Y FOR EACH DROP

NEW TRIGGER HOUSING " " " "

SEAR ENGAGEMENT FACTORY SET & SEALED

TRIGGER PULL: ADJUSTED TO MEAN OF 4 LB

TRIGGER OVERTRAVEL: 3/4 TURN PAST
DISENGAGEMENT

① DROP

② CHECK POSITION OF SAFETY

EXAMPLE F-PIN HEAD TO SEE IF
COCKED OR NOT

1. IF COCKED & SAFE

PULL TRIGGER, ~~THEY~~ ^{THEY} RELEASE

SAFE TO FIRE POSITION

IF, OK, THEN FIRE TO VERIFY THAT INDENT IS 0

2. IF UNCOCKED, EXAMPLE

COPPER CRUSHER FOR INDENT

THEN COCK GUN FOR

PROPER OPERATION.

MODERATE
STUCK

FALL
TO OFF
SAFE

FIRING
PIN
HEAD

FIRING
PIN

SEAZ

SAFETY

(NO)

VERY MINOR VERY MINOR VERY MINOR VERY MINOR
FIRING PIN HEAD IN ORIGINAL POSITION

(YES)

MINOR VERT MINOR MINOR VERT MINOR
SOME UPSET SOME UPSET
FIRING PIN HEAD IN ORIGINAL POSITION
TRIGGER BOUND TO REAR BY T. GUARD
F. PIN DID FALL FOR THIS REASON.

(YES)

MINOR MINOR MODERATE MODERATE
NO F.P. UPSET F.P. HEAD MINOR CRACKING
UPSET SAFE SAFE SUPPORTS

FIRING PIN PUSHED FORWARD
PLUS WITH BOLT PLUG.

(YES)

F.P.H. U³/₄ BOLT
MODERATE BENT SIDEWAYS. MINOR MODERATE
UPSET CORN. C B.M. F.P. HEAD CRACK P
SLIDING CONTACT DUTCH MODERATE SUPPORTS
BOLT PLUG. SOME BINDING.. OIL IN CHAM

~~1. WHEN SAFETY WAS MOVED
TO FIRE POSITION, TUGGER IS PULLED~~
REASON: TUGGER RUBS ON
RIGHT SIDE OF SLOT LIX
TR. GUARD ASS. OR BEFORE
PROP.

② First #18 was dis qualified because drop
height was unknown. The striker assembly did not
move freely

③ SAFETY COULD NOT BE MOVED
TO FIRE POSITION WITH ONLY
THUMB PRESSURE. LIGHTLY TAPPED
FORWARD & FIRED. THIS IS
A PROBLEM, BOLT STOP BINDS,

④ DITTO ABOVE. AFTER RECALL
& TUGGER PULL 1ST TIME F.D.
DID NOT FALL. CR. THEREAFTER
OIL INDENT AS SAFETY
MOVED TO CRF, GUN FUNCTIONED
OK AFTER INITIAL PROBLEMS.

⑤ F.D. ASSY FALL @ SAFETY RELEASE
OIL INDENT - LIGHT.
F.D. ASSY APPEARS TO BE BOUND &
BINDING IN BOLT PLW.
- F.D. ASSY DID NOT FALL
ON SUBSEQUENT CYCLING.
IN OPERATIVE

(C) FORMING PIN DID NOT FIT
AS ~~WELDED~~ WELDED BRIGAND
COULD NOT BE RELEASED IMMEDIATELY
SUSPECTED BEING R.D. BINDING
IN FOOT PLUG.

OFF GEAR

17/10/04

SEAR

SAFETY

5"

YES

SEVERE

BOUND

MODERATE

MODERATE

LIGHT IMPACT

BINDING

R.P.H.

CHANCE

.012 DUE TO R.P.H.

SIDE SIDE

VERY MINOR

SEAR CHAT

3 MONTHS

E SEAR

SURFACE

GUN IS INOPERATIVE F. PLUG
BOUND ON BOLT PLUG.

6"

NO

SEVERE

BINDING

MOD E.F.P.H.

MOD CHAT

MOD. SEAR

E SEAR CHAT

GUN IS INOPERATIVE F-PLUG
BOUND ON BOLT PLUG.

DAMAGED PARTS

FLYING PIN HEAD

BOLT PLUG

SEAR

SAFETY

TRIGGER FALL INVESTIGATION. SAMPLE _____

SAMPLE ORIGIN: _____ TEST DATE: _____ TESTER: _____

MODEL: _____ CALIBER: _____ SER. NO.: _____ TRIGGER POLL
SPEC.

DROP HEIGHT, IN.	6	12	18	24	30	36
KINETIC ENL. FT.-LBS						
IMPACT SPEED FT./SEC	11.3	16.0	19.6	22.7	25.4	27.8

GUN WEIGHT AS DROPPED: _____

DID FIRING PIN FALL?

INDENT @ FALL, 0.001"

ANY PART DAMAGE?

WHAT?

PROCEDURE: NEW FIRING PIN ASS'Y FOR EACH DROP

NEW TRIGGER HOUSING " " " "

SEAR ENGAGEMENT FACTORY SET & SEALED

TRIGGER POLL - ADJUSTED TO MEAN OF

MILL L. 10