RESTRICTED

ORDNANCE FIELD SERVICE

BASE SHOP DATA



Carbine, Cal. .30, M1 & M1A1

PREPARED UNDER THE DIRECTION OF THE CHIEF OF ORDNANCE

ROCK ISLAND ARSENAL - SEPT., 1942

Carbine, Cal. .30, M1 & M1A1

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<u>Item</u>	B.S.D. No.
Assembling	 1
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NOTE

Base Shop Data Units which are used on more than one assembly are incorporated under their original marking and are, in addition, identified by the words "Common to two or more assemblies" under the title of the unit affected.

RESTRICTED

ORDNANCE FIELD SERVICE

BASE SHOP DATA



Carbine, Cal. .30, M1 & M1A1

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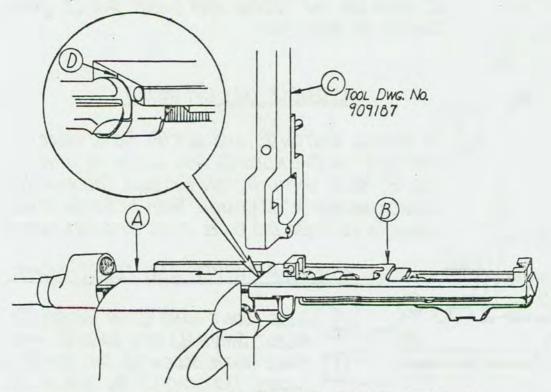
ROCK ISLAND ARSENAL - SEPT., 1942

SMALL ARMS CARBINE, CAL30 M1 AND M1A1

ASSEMBLING

SHEET OF8

NOTE: INSPECT EACH COMPONENT PART OF
THE CARBINE FOR EXCESSIVE WEAR
OR BREAKAGE. REPLACE ANY PARTS
IF NECESSARY. LUBRICATE THOROUGHLY
DURING ASSEMBLY.



ASSEMBLE RECEIVER TO BARREL

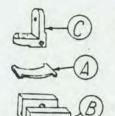
DLACE THE BARREL (A) IN A VISE
AND SCREW ON RECEIVER (B). DRAW
UP RECEIVER WITH BOX WRENCH
(C) UNTIL POSITION LINES (D) ARE
ALIGNED.

SMALL ARMS CADBINE, CAL30 M1 AND M1A1

ASSEMBLING

SHEET 2 OF 8

ASSEMBLE REAR SIGHT



TO ASSEMBLE THE REAR SIGHT, PLACE SPRING (A) IN
THE BASE (B) IN CONCAVE POSITION. PRESS SIGHT LEAF
(C) DOWN ON THE SPRING AND INSERT PIN (D). STAKE
PIN (D) ON BOTH ENDS.



ASSEMBLE GAS CYLINDER

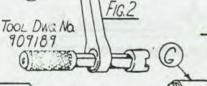
TO INSTALL PISTON (E) AND NUT (F), FIG. 3, INSERT

PISTON (E) IN CYLINDER (G) AND SCREW IN, USING

TOOL (H); FIG. 2, UNTIL PISTON EXTENDS THROUGH NUT

APPROXIMATELY 4" MAXIMUM. PUSH IN PISTON; STAND

CARBINE ON RECEIVER END TO SEE IF PISTON SLIDES FREELY.

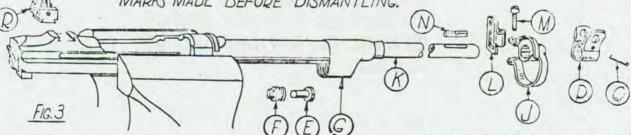


ASSEMBLE SWIVEL AND FRONT SIGHT

SLIDE FRONT BAND () ON BARREL ().
INSERT SWIVEL () INTO BAND () AND
HINGE WITH SCREW (). TAD KEY () INTO
BARREL TAD SIGHT () ON BARREL AND

OVER KEY W UNTIL IT IS FLUSH ON BOTH ENDS WITH KEY W. INSERT PIN W THROUGH SIGHT W AND KEY W. STAKE KEY W AT THE REAR AND PIN W AT BOTH ENDS.

TAD READ SIGHT @ INTO RECEIVED FROM LEFT TO RIGHT. ALIGN SCRIBE



CARBINE-30-M1-ASSEM-2(8)

CARBINE, CAL.30 M1 AND M1A1

ASSEMBLING

SHEET

ASSEMBLE BOLT GROUP

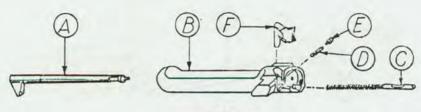
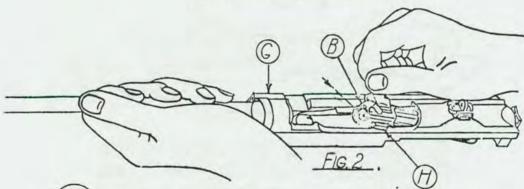


FIG. 1

(6) INSERT FIRING PIN (A) INTO BOLT (B). SLIDE EJECTOR AND SPRING (C) INTO BOLT. INSERT SPRING (D) AND PLUNGER (E). PRESS EJECTOR BACK INTO BOLT AND TAP IN EXTRACTOR (E) UNTIL IT IS LOCKED IN PLACE BY PLUNGER (E).

INSTALL BOLT GROUP



GRASP BOLT ® BY LOCKING LUG ® AS SHOWN AND INSERT THE REAR OF BOLT ® IN AN UPRIGHT POSITION INTO REAR OF OPENING IN RECEIVER ©. LOWER THE BOLT, TURNING IT TO THE RIGHT UNTIL LUG ® ENGAGES THE GROOVE INSIDE THE LEFT SIDE OF RECEIVER. SLIDE THE BOLT ® FORWARD TO LOCKED POSITION TO BE SURE IT WORKS FREELY.

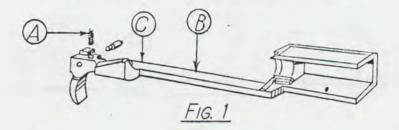
CARBINE -30 - M1 -ASSEM:-3(8)

SMALL ARMS CARBINE, CAL. 30 MI AND MIAI

ASSEMBLING

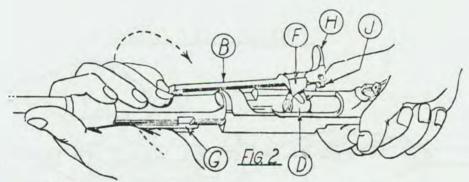
SHEET A OF 8

ASSEMBLE OPERATING SLIDE



INSERT SPRING (A) INTO THE OPERATING HANDLE (B). PRESS SPRING (A) DOWN AND INSERT OPERATING SLIDE STOP (C).

INSTALL OPERATING SLIDE

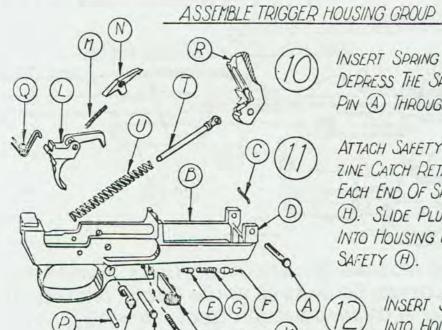


DEMOVE BOLT D FROM LOCKED POSITION
AND SLIDE IT ABOUT HALF WAY. TO REAR
OF OPENING. GRASP. OPERATING SLIDE B) IN
LEFT HAND AND PLACE CAMMED PART F) OVER
LOCKING LUG OF BOLT D. TURN SLIDE B) TO
LEFT. ENGAGE THE LEFT LUG AT G. PULL
OPERATING HANDLE B) TO THE REAR UNTIL
LUG DENTERS GROOVE IN RIGHT SIDE OF
RECEIVER, SLIDE OPERATING HANDLE B) FORWARD UNTIL BOLT D IS IN LOCKED POSITION.

SMALL ARMS CARBINE, CAL 30 M1 AND M1A1

ASSEMBLING

SHEET 5



INSERT SPRING © IN PIN (A), AND STAKE.
DEPRESS THE SPRING (C) AND INSERT THE
PIN (A) THROUGH LUG (D).

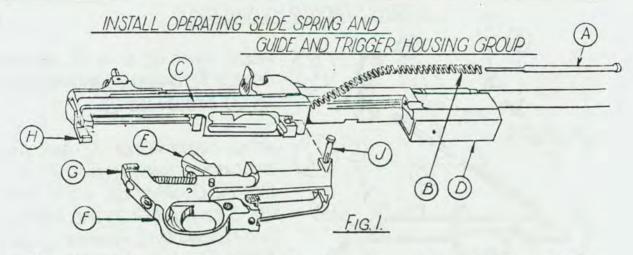
ATTACH SAFETY PLUNGER (E) AND MAGAZINE CATCH RETAINER PLUNGER (F) ON EACH END OF SPRING (G). INSERT SAFETY (H). SLIDE PLUNGER (E) AND ASSEMBLY INTO HOUSING UNTIL PLUNGER (E) LOCKS SAFETY (H).

- INSERT SPRING AND PLUNGER (1)
 INTO HOUSING. DEPRESS PLUNGER
 (F) AND SLIDE IN MAGAZINE CATCH
 (K). BE SURE THE PLUNGER (1) IS
 PUSHING OUT ON MAGAZINE CATCH (K).
- PLACE TRIGGER () IN HOUSING. PLACE SPRING () IN ITS SEATS IN TRIGGER AND IN BOTTOM OF SEAR (). INSERT PIN () THROUGH TRIGGER AND SEAR (). PUSH SPRING () INTO HOUSING UNTIL THE CLOSED ARM IS SEATED IN REAR OF TRIGGER (). PLACE HAMMER () ON SEAR () AND INSERT PIN ().
- INSTALL HAMMER SPRING PLUNGER TO TO HAMMER SPRING W. HOLD FREE END OF SPRING W AGAINST FACE OF TRIGGER HOUSING, CENTERED IN HAMMER SPRING PLUNGER RECESS, WITH PLUNGER TO LYING TO THE RIGHT SIDE OF HAMMER R.
- INSERT SMALL PUNCH INTO HOLE IN PLUNGER (T) AND PULL BACK PLUNGER AGAINST THE FORCE OF SPRING, GUIDING REAR END OF PLUNGER INTO RECESS IN TRIGGER HOUSING. WHEN FORWARD END OF PLUNGER (T) IS EVEN WITH REAR FACE OF HAMMER (R), PRESS PLUNGER TO LEFT AND SEAT IN RETAINING GROOVES IN BASE OF HAMMER.

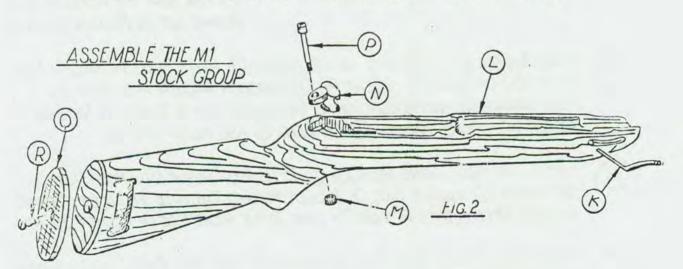
SMALL ARMS CARBINE, CAL: 30 MI AND MIAI

ASSEMBLING

SHEET 6 0F8



INSERT GUIDE. (A) INTO SPRING (B). SLIDE OPPOSITE END OF SPRING (B) INTO RECEIVER (C). COMPRESS THE SPRING (B) WITH THE GUIDE (A) UNTIL GUIDE (A) IS SEATED IN HOLE IN OPERATING SLIDE (D). COCK THE HAMMER (E). PLACE TRIGGER HOUSING GROUP (F) ON BOTTOM OF RECEIVER (C) AND SLIDE GROUP (F) TO THE REAR SO THAT CATCH (G) ENGAGES SLOTS (H). PUSH IN PIN (O).



TAP SPRING (B) INTO STOCK (L). TAP SERRATED NUT (M) INTO BOTTOM OF STOCK (L).
PLACE RECOIL PLATE (M) IN STOCK AND INSTALL SCREW (P). FIT BUTT PLATE
(P) ON REAR OF STOCK (L) AND APPLY SCREW (R).

SMALL ARMS CARBINE, CAL.30 MI AND MIAI

ASSEMBLING

SHEET 7

ASSEMBLE THE MIAI STOCK GROUP

ASSEMBLE GRIP AND PLATE OTO STOCK B WITH SCREW D.

DINSERT WASHER (DAND SPRING (F) IN SIDE
OPENING IN BOTTOM OF GRIP (A). PLACE
HINGE (G) ON PLATE (C) AND LOCK (H) OVER
OPENING IN BOTTOM OF GRIP (A).

OPLACE CAPO OVER PLATE AND INSERT SCREW & THROUGH ASSEMBLY.

INSERT NUT (INTO OPENING IN SHELL (M).

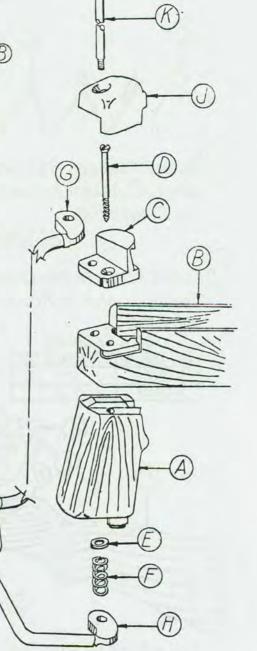
PLACE SHELL (M) ON BOTTOM OF GRIP (A).

TIGHTEN SCREW (B) INTO NUT (L). OPERATE

THE FOLDING MECHANISM (P) SEVERAL TIMES

TO BE SURE IT FOLDS CORRECTLY AND

LOCKS INTO REAR POSITION.



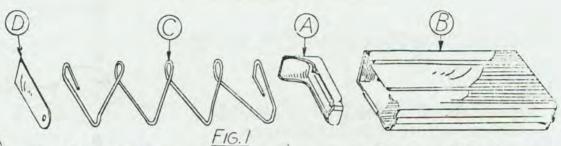
CARBINE-30-M1-ASSEM-7(8)

SMALL ARMS CARBINE, CAL. 30 M1 AND M1A1

ASSEMBLING

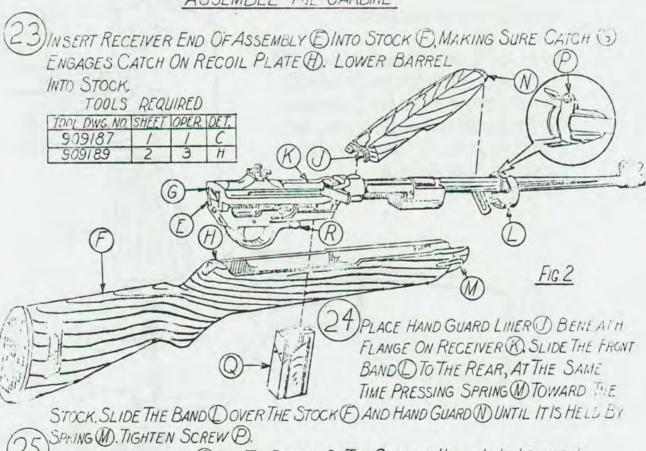
SHEET OF 3

ASSEMBLE THE MAGAZINE



22)INSTALL MAGAZINE FOLLOWER (A) INTO BOTTOM OF MAGAZINE TUBE (B). INSERT SPRING (C) AGAINST FOLLOWER AND SLIDE BASE (C) INTO BOTTOM OF TUBE (B) FROM THE CURVED END.

ASSEMBLE THE CARBINE



DINSERT THE MAGAZINE @INTOTHE BOTTOM OF THE CARBINE UNTIL IT IS LOCKED IN POSITION BY THE MAGAZINE CATCH .

CARBINE-30-M1-ASSEME

RESTRICTED

ORDNANCE FIELD SERVICE

BASE SHOP DATA



Carbine, Cal. .30, M1 & M1A1

PREPARED UNDER THE DIRECTION OF THE CHIEF OF ORDNANCE

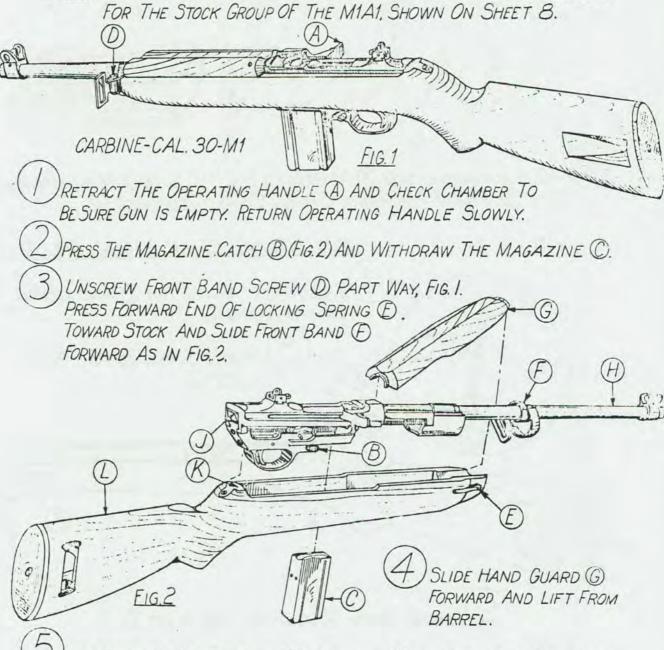
ROCK ISLAND ARSENAL - SEPT., 1942

SMALL ARMS CARBINE, CAL 30 M1 AND M1A1

DISMANTLING

SHEET OF 8

NOTE: THE CARBINES MI AND MIAI ARE DISMANTLED SIMILIARLY, EXCEPT FOR THE STOCK GROUP OF THE MIAI, SHOWN ON SHEET 8.



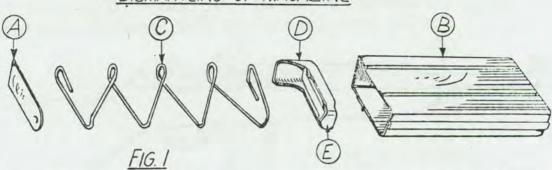
DISENGAGED FROM RECOIL PLATE B. LIFT BARREL AND RECEIVER GROUP FROM STOCK D.

SMALL ARMS CARBINE,CAL30 M1 AND M1A1

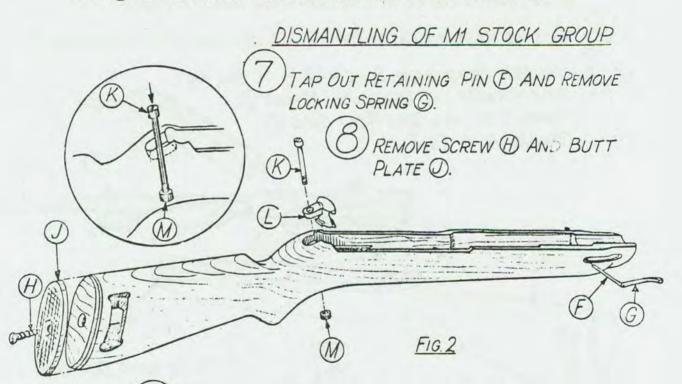
DISMANTLING

SHEET 2 OF 8

DISMANTLING OF MAGAZINE



PRESS MAGAZINE BASE A AT ROUNDED END, AND SLIDE IT FROM MAGAZINE TUBE B. REMOVE MAGAZINE SPRING AND FOLLOWER D.



PREMOVE SCREW & AND LIFT OUT PLATE .

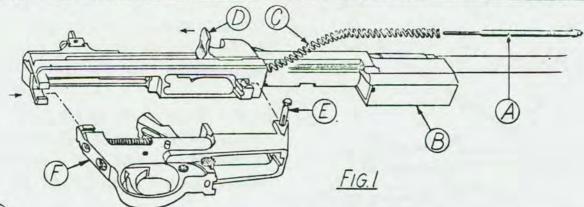
(10) PRESS OUT NUT M WITH SCREW B AS SHOWN IN INSET.

SMALL ARMS CARBINE,CAL,30 M1 AND M1AI

DISMANTLING

SHEET 3 OF 8

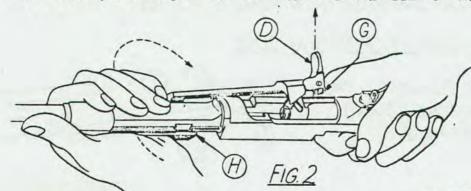
REMOVAL OF OPERATING SLIDE SPRING AND GUIDE AND TRIGGER GUARD GROUP



- Push Operating Slide Spring Guide (A) To The Rear, Releasing It From
 Its Seat In The Operating Slide (B). Pull Guide (A) Clear Of The
 Slide And Remove It With Spring (C).
- (2) PULL THE OPERATING HANDLE (D) TO THE REAR, COCKING THE HAMMER.
 RETURN OPERATING HANDLE TO FORWARD POSITION.
- (13) PULL OUT PIN (AND TRIGGER GUARD ().

REMOVAL OF OPERATING SLIDE

(4) SLIDE OPERATING HANDLE (1) TO THE REAR, AND PULL IT OUT UNTIL LUG (3) IS FREE. MOVE OPERATING SLIDE FORWARD WITH LEFT HAND, CANTING IT TO THE RIGHT UNTIL LUG IS FREE AT (3).

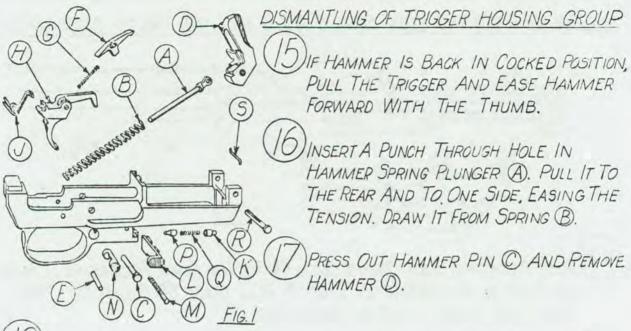


CARBINE-30-M1-DISM-3(8)

SMALL ARMS CARBINE, CAL 30 M1 AND M1A1

DISMANTLING

SHEET OF 8



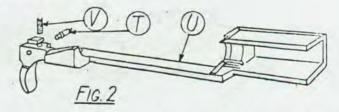
PRESS OUT TRIGGER PIN (E), RELEASING SEAR (E), SEAR SPRING (G),
TRIGGER (E) AND TRIGGER SPRING (I).

DITHROUGH A HOLE IN THE BOTTOM OF THE TRIGGER HOUSING, DEPRESS
THE MAGAZINE CATCH RETAINER PLUNGER & AND SLIDE OUT MAGAZINE
CATCH D, RELEASING THE MAGAZINE CATCH PLUNGER AND SPRING .
REMOVE SAFETY D. SHAKE OUT SAFETY PLUNGER D, SPRING QAND
PLUNGER & AND SEPARATE.

20) IF IT IS NECESSARY TO REMOVE THE TRIGGER HOUSING RETAINING PIN®, FIRST PRY OUT SPRING S, THEN REMOVE PIN ®.

DISMANTLING OF OPERATING SLIDE

2) PUSH THE PLUNGER TO FROM OPERATING SLIDE TO AND REMOVE SPRING V.

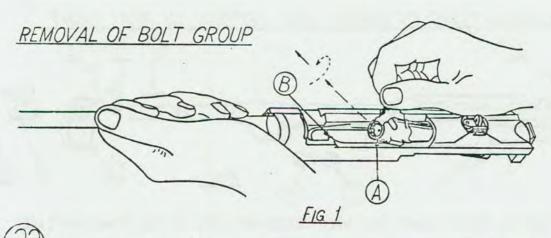


CARBINE-30-M1-DISM-4(8)

SMALL ARMS CARBINE, CAL30 M1 AND M1A1

DISMANTLING

SHEET 5



GRASP BOLT (A) BY CAMLUG AS SHOWN AND SLIDE IT TO REAR UNTIL FRONT OF BOLT IS BEHIND. LOCKING SHOULDER (B) IN RECEIVER. ROTATE THE BOLT TO THE LEFT AND PULL IT UP UNTIL IT STOPS. TURN BOLT TO THE RIGHT AND LIFT FROM RECEIVER.

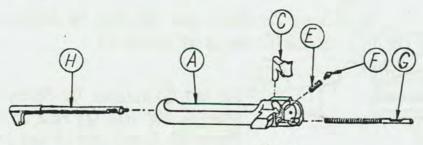


FIG. 2

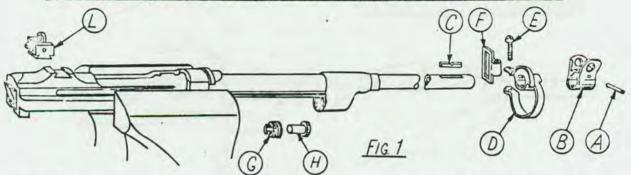
THE EXTRACTOR © LOCKS ALL THE COMPONENTS IN THE BOLT GROUP. HOLD
THE THUMB OVER FACE OF BOLT (A) TO PREVENT THE EJECTOR (G) AND
EXTRACTOR SPRING (E) AND PLUNGER (F) FROM FLYING OUT WHEN RELEASED.
PUNCH OUT THE EXTRACTOR (C). WITHDRAW THE EJECTOR (G), EXTRACTOR
SPRING (E), PLUNGER (E) AND FIRING PIN (E).

SMALL ARMS CARBINE, CAL,30 M1 AND M1A1

DISMANTLING

SHEET OF 8

DISMANTLING OF BARREL AND REMOVAL OF REAR SIGHT



NOTE: REMOVE FRONT SIGHT ONLY WHEN NECESSARY BECAUSE IT IS STAKED IN PLACE.

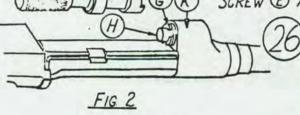
PUNCH OUT PIN (A) AND TAP SIGHT (B) OFF BARREL WITH HARDWOOD BLOCK OR

A BRASS DRIFT. THE KEY (C) IS STAKED AT THE REAR. USING A

BRASS DRIFT, TAP KEY TO REAR TO RELEASE STAKING AND

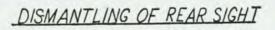
REMOVE KEY.

Screw (D) AND SLING SWIVEL (D).



THE NUT © HOLDING THE PISTON (H) IS STAKED: USE TOOL (D), FIG. 2, ON NUT (G). PISTON (H) SLIDES OUT OF GAS CYL-INDER (R)

MARK POSITION OF REAR SIGHT © FOR FUTURE ASSEMBLY
BEFORE REMOVING FROM RECEIVER. DRIVE OUT REAR
SIGHT, USING A HARDWOOD BLOCK OR BRASS DRIFT, FROM
RIGHT TO LEFT.



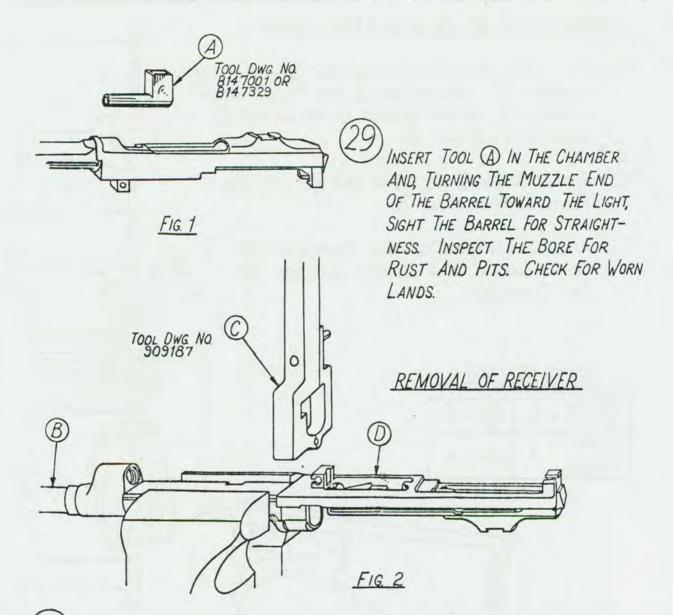
PUNCH OUT PIN M, RELEASING SIGHT LEAF W AND SPRING P FROM BASE Q.

CARBINE-30-MI-DISM-6 (8)

SMALL ARMS CARBINE, CAL30 M1 ANDM1A1

DISMANTLING

SHEET 7 OF 8



(30) IF A NEW BARREL OR RECEIVER IS TO BE USED, HOLD THE BARREL (B) FIRMLY IN A VISE WITH COPPER JAWS. PLACE THE HINGED BOX WRENCH (C) AROUND RECEIVER (D) AS NEAR BARREL AS POSSIBLE AND UNSCREW RECEIVER FROM BARREL (RECEIVER HAS STANDARD RIGHT HAND THREADS.)

BASE SHOP DATA-ISSUE OF 1-22-43 P

SMALL ARMS SHEET DISMANTLING CARBINE, CAL30 MI AND MIAI OF 8 DISMANTLING OF THE MIAI STOCK GROUP REMOVE THE SCREW (A) RELEASING NUT (B) AND EYELET AND SHELL C. REMOVE CAP D AND FOLDING STOCK ASSEMBLY (E). REMOVE SPRING (F) AND WASHER (G). FROM BOTTOM OF GRIP (H) REMOVE SCREW (1) RELEASING GRIP (A) LIFT OUT PLATE (1) FROM STOCK (R). AFTER DISMANTLING CLEAN ALL COMPONENT PARTS OF THE CARBINE IN A SOLVENT SOLUTION AND DRY THOROUGHLY. TOOLS REQUIRED TOOL DIAGAD SHEET OPER DET. 909189 30 909187 B147001 29 A BI47329 FIG. 1