

| DATES AND REASONS FOR REVISIONS |                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------|
| 3-22-73                         | - Item 4 revised to include M/552-572 & to clarify definition-NWM/hv - Revised & Retyped |
| 4-17-73                         | - Added Item #166-NWM/TL/hv -- 12-7-73 - Added Item #142 - NWM/TL/hv                     |
| 1-7-76                          | - Added Item #3 (BHS). NWM/GRB 9/30/80-Updated model listing for malf. #4- JJB/MAB/bdm   |
| 4/1/76                          | - Reviewed for feasibility - NWM/GRB /jc                                                 |
| DESCRIPTIVE INFORMATION         |                                                                                          |

MALFUNCTION INDEX - Explanation and Code Number to be used in reporting Functional Test Results

NOTES:

| <u>Code No.</u> | <u>Abbr.</u> | <u>Malfunction</u>               | <u>Model Involved</u>                                         | <u>Explanation</u>                                                                           |
|-----------------|--------------|----------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1               | AB           | Action Blinds                    | All                                                           | Action has a definite catching in either opening or closing on more than one (1) test round. |
| 1               | BB           | Bolt Blinds/Catches              | 40X, 540X, 541X<br>580, 1&2, 591&2<br>XP-100, 600, 700<br>788 | Bolt has a definite catching or bind in either forward or rearward motions.                  |
| 2               | ASPB         | Action Spring<br>Follower Blinds | 48 & 1100                                                     | Follower binds in Action Tube preventing Action Spring from going forward to close Action.   |
| 3               | BHS          | Bolt Hits Safe                   | 580, 581, 582<br>600, 700, 788                                | Bolt Strikes Safety Thumb Piece as operated to forward or rearward position.                 |
| 4               | BCOF         | Bolt Catches<br>on Follower      | 600, 700, 742,<br>760, 788, 552,<br>572, 7400, 7600           | In forward motion of Bolt, Bolt Head contacts & binds on end of Magazine Follower.           |
| 5               | BAC          | Burr at Chamber                  | All                                                           | S.E.                                                                                         |

|           |                                                   |                |           |              |
|-----------|---------------------------------------------------|----------------|-----------|--------------|
| PART NAME | MALFUNCTION INDEX                                 | SET UP<br>TIME | MODEL NO. | OPER. NO.    |
| TYPE      | Explanation & Code Nos. - Functional Test Results | MACH. HRS.     | DEPT. NO. | PAGE 1 OF 22 |
| MACHINE   |                                                   |                |           |              |

DATES AND REASONS FOR REVISIONS 3-22-73 - Revised & Retyped - NWM/hv

4/1/76 - Reviewed for feasibility - NWM/GRB /1p

9/30/80-Updated model listing for mal. #12-IJB/MAB/bdm

DESCRIPTIVE INFORMATION

| <u>Code No.</u> | <u>Abr.</u> | <u>Malfunction</u>                       | <u>Model Involved</u>                         | <u>Explanation</u>                                                                                                          |
|-----------------|-------------|------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 6               | BBB         | Barrel Blinds Back                       | 48                                            | After firing, Barrel fails to return to forward position properly.                                                          |
| 7               | BC          | Blows Cases                              | All                                           | Shells burst, split or blow out at any part of brass.                                                                       |
| 8               | BCOBS       | Bolt Catches on Bolt Stop                | (See #1-BB)                                   | When starting to move Bolt to rear position, corner of Bolt Stop catches on Bolt Stop.                                      |
| 9               | BCOE        | Bolt Catches on Ejector                  | 48, 870, 1100, 591, 592                       | In normal operation Bolt catches on Ejector due to lack of proper clearance.                                                |
| 10              | BCRS        | Bolt Catches Rlm of Shell                | 788                                           | On calibers which have rim heads (30-30, 44): The Bolt while being moved rearward, catches on the rim of shell in Magazine. |
| 11              | BDC         | Bolt doesn't cam                         | 742                                           | Bolt Latch does not release causing Action to jam.                                                                          |
| 12              | BLOP        | Bar Lock or Disconnecter out of position | 48, 870, 1100, 742, 760, 552, 572, 7400, 7600 | Disconnecter or Action Bar Lock drops off Action Bar causing possible 1-AB, 37-DFB, etc.                                    |
| 13              | BPO         | Bolt pulls out                           | All Bolt Action (See #1-BB)                   | Bolt Assembly fails to hold at stopping point and is pulled clear of Rifle during normal opening of Action.                 |

PART NAME \_\_\_\_\_ Malfunction Index \_\_\_\_\_ SET UP TIME \_\_\_\_\_ MODEL NO. \_\_\_\_\_ OPER. NO. \_\_\_\_\_  
 TYPE Explanation & Code Nos. - Functional Test Results MACH. HRS. \_\_\_\_\_ DEPT. No. \_\_\_\_\_ PAGE 2 OF 22  
 MACHINE \_\_\_\_\_

DATES AND REASONS FOR REVISIONS 3-22-73 - Revised & Retyped - NWM/hv  
 4/3/76 - Reviewed for feasibility - NWM/GRB/jc  
 9/30/80-Updated model listing for male #19-JJB/MAB/bdm

DESCRIPTIVE INFORMATION

| Code No. | Abr.  | Malfunction                            | Model Involved      | Explanation                                                                                          |
|----------|-------|----------------------------------------|---------------------|------------------------------------------------------------------------------------------------------|
| 14       | BSSM  | Bolt stems Shell in Magazine           | All Box Mag. Rifles | While feeding cartridge into chamber, Bolt digs into top cartridge in Magazine Box, stopping Action. |
| 15       | BSB   | Bolt Stop Blinds                       | (See #1-BB)         | S.E.                                                                                                 |
| 16       | BHR   | Bolt hits Receiver                     | (See #1-BB)         | Front of Bolt strikes Ejection Port in forward motion.                                               |
| 17       | BWCFM | Bolt won't close over full Magazine    | 600, 700, 788       | S.E.                                                                                                 |
| 18       | BSCO  | Barrel Support came out                | 870 & 1100          | S.E.                                                                                                 |
| 19       | BLSO  | Barrel Lug shot off                    | 742, 7400           | S.E.                                                                                                 |
| 20       | BRB   | Breach Ring broken                     | All C.F. Rifles     | Breach Ring shows break or hairline crack.                                                           |
| 21       | CBS-F | Shells catch on Barrel Support-Feeding | 870 & 1100          | After feeding from Magazine, front end of shell catches on Barrel Support preventing proper feed-up. |
| 22       | CBS-L | Shells catch on Barrel Support-Loading | 870 & 1100          | When loading shells into the Magazine, front end of shell catches on Barrel Support.                 |

PART NAME \_\_\_\_\_ Malfunction Index \_\_\_\_\_ SET UP TIME \_\_\_\_\_ MODEL No. \_\_\_\_\_ OPER. No. \_\_\_\_\_  
 TYPE Explanation & Code Nos. - Functional Test Results \_\_\_\_\_ MACH. HRS. \_\_\_\_\_ DEPT. No. \_\_\_\_\_ PAGE 3 OF 22  
 MACHINE \_\_\_\_\_

DATES AND REASONS FOR REVISIONS 3-22-73 - Revised & Retyped - NWM/hv  
 4/1/76 - Reviewed for feasibility - NWM/GRB/jc

DESCRIPTIVE INFORMATION

| Code No. | Abr. | Malfunction                                                      | Model Involved  | Explanation                                                                                                                                                       |
|----------|------|------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23       | CC   | Carrier catches (on shells in Magazine, on Latches, on Receiver) | 48, 870, 1100   | During operation, Carrier will catch at one of the points mentioned and prevent proper feed-up of shell.                                                          |
| 24       | CH   | Closes hard                                                      | All             | See #1-AB & #71-HUE. Should not be considered a malfunction on manually operated models unless more than normal closing speed is required on more than one shell. |
| 25       | CHAB | Carrier hits Action Bar                                          | 48, 870, 1100   | During operation, Carrier will catch on Action Bar and prevent proper feed-up from Magazine to Chamber.                                                           |
| 26       | CLM  | Can't load Magazine                                              | All W/ Magazine | In loading Magazine, shells will not go in or will not go in properly.                                                                                            |
| 27       | CO   | Cut-off                                                          | All             | Shotguns: Paper/Plastic of shell cuts off completely or partially at front of brass. Rifles: Brass case is completely severed or split at mid-periphery (100-MX)  |
| 28       | CR   | Cuts rim                                                         | All             | Rim of brass completely cut through by Ejector or Extractor without causing #47-DX.                                                                               |

PART NAME Malfunction Index SET UP TIME \_\_\_\_\_ MODEL No. \_\_\_\_\_ OPER. No. \_\_\_\_\_  
 TYPE Explanation & Code Nos. - Functional Test Results MACH. HRS. \_\_\_\_\_ DEPT. No. \_\_\_\_\_ PAGE 4 OF 22  
 MACHINE \_\_\_\_\_

DATE AND REASONS FOR REVISIONS 3-22-73 - Revised & Retyped - NWM/hv

3-22-74 - Item 31 - CTP added - NWM/TJL/hv

4/1/76 - Reviewed for Feasibility - NWM/GBB/jc

10/13/78 - Added Item #33-JJD/GRN/bdm

DESCRIPTIVE INFORMATION

| Code No. | Abr. | Malfunction                   | Model Involved            | Explanation                                                                                                     |
|----------|------|-------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------|
| 29       | CS   | Cases swell                   | All                       | Shells deformed; concaves or convexes Head.                                                                     |
| 30       | CWSB | Cams wrong side of Action Bar | 48, 870, 1100             | Shell/Feed Latch cams behind Action Bar and jams Action.                                                        |
| 31       | CTP  | Creepy Trigger Pull           | All                       | Movement is interrupted when Trigger is pulled to rearward position.                                            |
| 32       |      |                               |                           |                                                                                                                 |
| 33       | DXr. | Doesn't Extract Live Round    | All                       | When action is opened, Live round is not removed from chamber.                                                  |
| 34       | DBB  | Doesn't Blow Back             | All Autoloaders           | Action fails to open far enough after firing to eject empty case, cock hammer or feed next round.               |
| 35       | DE   | Doesn't Eject                 | All                       | The fired shell is extracted from Chamber but fails to leave the Ejection Port although the Action opens fully. |
| 36       | DEL  | Doesn't Eject Live Round      | All                       | When the Action is fully opened a live shell fails to leave the Receiver Ejection Port.                         |
| 37       | DFB  | Doesn't Feed Back             | All Tubular Magazine Guns | Shells fail to feed back far enough to position properly on Cartridge.                                          |

PART NAME Malfunction Index

TYPE Explanation and Code Nos. - Functional Test Results

COOLANT

SET UP TIME

MODEL NO.

OPER. NO.

DEPT. NO.

PAGE 5

OF 22

MACHINE

Form N. D. 6464

| DATES AND REASONS FOR REVISIONS    3-22-73 - Item #43 - added M/3200 -- Revised & Retyped Process - NWM/hv<br>12-5-74 - Revised Item #43 - Took out M/3200 - Put under separate code - GRB/hv<br>4/1/76 - Reviewed for feasibility - NWM/GRB /Jc<br>9/30/80-Updated model listing for Malf. #40-42-JJB/MAB/bdm |      |                                        |                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------|--------------------------------------------|
| DESCRIPTIVE INFORMATION                                                                                                                                                                                                                                                                                        |      |                                        |                                            |
| Code No.                                                                                                                                                                                                                                                                                                       | Abr. | Malfunction                            | Model Involved                             |
| 38                                                                                                                                                                                                                                                                                                             | DFU  | Doesn't Feed Up                        | 66,552,572,582,<br>592,48,870,1100         |
| 39                                                                                                                                                                                                                                                                                                             | DLB  | Doesn't Lock Back                      | 48                                         |
| 40                                                                                                                                                                                                                                                                                                             | DLO  | Doesn't lock open (Last Shell)         | 48,742,1100,<br>7400                       |
| 41                                                                                                                                                                                                                                                                                                             | DLU  | Doesn't lock-up                        | 572,742,760,<br>48,870,1100,<br>7400, 7600 |
| 42                                                                                                                                                                                                                                                                                                             | DCU  | Doesn't close-up                       | 48,742,1100,<br>7400                       |
| 43                                                                                                                                                                                                                                                                                                             | DO   | Doubles (Fires Automatic) (See #69-FA) | All Autoloaders                            |

  

| PART NAME                                             | Malfunction Index | SET UP TIME | MODEL No. | OPER. No.    |
|-------------------------------------------------------|-------------------|-------------|-----------|--------------|
| TYPE Explanation & Code Nos. -Functional Test Results | COOLANT           | MACH. HRS.  | DEPT. No. | PAGE 6 OF 22 |

Form R. D. 5466

| DATES AND REASONS FOR REVISIONS |                                                                   |                                                     |  |
|---------------------------------|-------------------------------------------------------------------|-----------------------------------------------------|--|
| 1/22/75                         | - Separated PC/Ff/TW to 50, 56, 145 for clarification- NWM/GRB/hf | 9/30/80-Updated model listing Malf. #46, 50-JJB/HAB |  |
| 2/10/75                         | - Revised wording in item #50 to clarify - NWM/GRB/hf             |                                                     |  |
| 10/13/75                        | - Added double click - Safety to list - NWM/GRB/jc                |                                                     |  |
| 4/1/76                          | - Reviewed for feasibility - NWM/GRB/jc                           |                                                     |  |

  

| DESCRIPTIVE INFORMATION |      |                         |                                                       |
|-------------------------|------|-------------------------|-------------------------------------------------------|
| Code No.                | ADR. | Malfunction             | Model Involved                                        |
| 44                      | DSM  | Drops Shell-Magazine    | 48, 870, 1100                                         |
| 45                      | DTL  | Doesn't trip Latch      | 1100                                                  |
| 46                      | DR   | Doesn't Release         | 742, 760,<br>7400, 7600                               |
| 47                      | DX   | Doesn't Extract         | All                                                   |
| 48                      | DCT  | Double Click in Trigger | All                                                   |
| 49                      | DCS  | Double Click in Safety  | All                                                   |
| 50                      | FC   | Fails to Connect        | 3200, 1100, 870,<br>742, 760, 552, 572,<br>7400, 7600 |
|                         |      |                         | 100                                                   |

  

| Malfunction Index |                                                   |             |              |
|-------------------|---------------------------------------------------|-------------|--------------|
| PART NAME         | COOLANT                                           | SET UP TIME | MODEL No.    |
| TYPE              | Explanation & Code Nos. - Functional Test Results | MACH. HRS.  | DEPT. No.    |
|                   |                                                   |             | PAGE 7 OF 22 |

**DATES AND REASONS FOR REVISIONS**

1/22/75 - Retyped - 1/22/75 - NWM/GRB/hf  
 1/22/75 - Separated FC/FF/TWW to 50, 56, 145 for clarification - NWM/GRB/hf  
 4/1/76 - Reviewed for feasibility - NWM/GRB/jc

**DESCRIPTIVE INFORMATION**

| <u>Code No.</u> | <u>Abbr.</u> | <u>Malfunction</u>           | <u>Model Involved</u>         | <u>Explanation</u>                                                                                                                                          |
|-----------------|--------------|------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 51              | EDS          | Extractor Drops Shell        | All                           | Fired shell drops down from Extractor during Extraction cycle.                                                                                              |
| 52              | ESB          | Ejector Sticks Back          | All C.F. Rifles               | When depressed, Ejector falls to return to full forward position.                                                                                           |
| 53              | ESCR         | Empty Shell catches Receiver | All C. F. Rifles and shotguns | At start of the Ejection Cycle, front of fired case hangs or catches a front of Receiver Ejection Port.                                                     |
| 54              | ESS          | Extractor Stems Shell        | All S.G.                      | The shell feeding up on Carrier jumps out of position & front of Extractor strikes inside rim. (Most often occurs on loading first shell into the Chamber.) |
| 55              | FB           | Follower Blinds              | All W/Magazine                | Follower blinds in Magazine preventing proper feeding of shells.                                                                                            |
| 56              | PF           | Falls to Fire                | All                           | When trigger is pulled, hammer or striker is released but firing pin fails to strike cartridge.                                                             |

PART NAME: Malfunction Index SET UP TIME: \_\_\_\_\_ COOLANT: \_\_\_\_\_  
 TYPE: Explanation & Code Nos. - Functional Test Results MODEL NO. \_\_\_\_\_ OPER. NO. \_\_\_\_\_  
 MACH. HRS. \_\_\_\_\_ DEPT. NO. \_\_\_\_\_ PAGE H 11 77

DATES AND REASONS FOR REVISIONS 1/22/75 - Separated FC/FF/TWW to 50, 56, 145 for clarification - NWM/GRB/hf  
 Retyped - 1/22/75 - NWM/GRB/hf  
 4/1/76 - Reviewed for feasibility - NWM/GRB - jg

DESCRIPTIVE INFORMATION

| Code No. | Abr. | Malfunction                 | Model Involved | Explanation                                                                                                         |
|----------|------|-----------------------------|----------------|---------------------------------------------------------------------------------------------------------------------|
| 57       | PFM  | Fails to feed from Magazine | All S.G.       | Live round falls to feed past Latches out of Magazine.                                                              |
| 58       | FFP  | Flat Firing Pin             | All C.F.       | S. E.                                                                                                               |
| 59       | FII  | Feeds High                  | All S. G.      | When feeding, Carrier lifts shell too high causing it to stem top of Receiver or top of Chamber. See also #135-STC. |
| 60       | FOS  | Fires on Safe               | All            | Gun fires with Safe in "ON" position when Trigger is pulled.                                                        |

PART NAME Malfunction Index  
 TYPE Explanation & Code Nos. - Functional Test Results

SET UP TIME

COOLANT

MODEL NO.

OPER. NO.

MACH. HRS

DEPT. NO.

PAGE 4

OF 17

| DATES AND REASONS FOR REVISIONS                                                                  |      |                             |                                                                                                                                                  |                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------|------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-22-73 - Revised & Retyped - NWM/hv                                                             |      |                             |                                                                                                                                                  |                                                                                                                                                                                                                                            |
| 6-24-74 - Item 67 - Added breakdown explanation of various models for clarification - NWM/TJL/hv |      |                             |                                                                                                                                                  |                                                                                                                                                                                                                                            |
| 4/1/76 - Reviewed for feasibility - NWM/GRB/jc                                                   |      |                             |                                                                                                                                                  |                                                                                                                                                                                                                                            |
| 9/30/80-Updated model listing for Malf. #65, 67-JJB/MAR/ladm                                     |      |                             |                                                                                                                                                  |                                                                                                                                                                                                                                            |
| DESCRIPTIVE INFORMATION                                                                          |      |                             |                                                                                                                                                  |                                                                                                                                                                                                                                            |
| Code No.                                                                                         | Abr. | Malfunction                 | Model Involved                                                                                                                                   | Explanation                                                                                                                                                                                                                                |
| 61                                                                                               | FPHB | Firing Pin hits Barrel      | All R.F.                                                                                                                                         | On its forward motion, Firing Pin strikes rear face of Barrel near Chamber.                                                                                                                                                                |
| 62                                                                                               | FPO  | Floor Plate Opens           | 700                                                                                                                                              | Floor Plate opens due to Insufficient spring tension on Latch.                                                                                                                                                                             |
| 63                                                                                               | FPOH | Floor Plate opens hard      | 700                                                                                                                                              | Requires more than normal pressure to open.                                                                                                                                                                                                |
| 64                                                                                               | FSR  | Fires when Safe is Released | All                                                                                                                                              | S.E.                                                                                                                                                                                                                                       |
| 65                                                                                               | FT   | Follower Tips               | 600, 700, 742,<br>760, 7400, 7600                                                                                                                | Follower (Magazine) tips sidewise, may or may not stick down.                                                                                                                                                                              |
| 66                                                                                               | FUII | Feeds up Hard               | 572, 582, 592                                                                                                                                    | More than normal pressure required to feed shells up.                                                                                                                                                                                      |
| 67                                                                                               | FD   | Follows Down                | A. 40, 1100, 870,<br>742, 760, 552,<br>572, N/66, 10C,<br>7400, 7600<br><br>B. 600, 700, 788,<br>580, 581, 582,<br>40X, 540X, 541,<br>and XP-100 | Hammer fails to properly engage with Sear and follows the forward motion of the Bolt to the fired position.<br><br>Cocking piece fails to properly engage with Sear and follows the cocking cam surface of the bolt to the fired position. |

| PART NAME                                        | Malfunction Index | SET UP TIME | MODEL No | OPER. No      |
|--------------------------------------------------|-------------------|-------------|----------|---------------|
| Explanation & Code Nos. -Functional Test Results | COOLANT           | MACH. HRS   | DEPT. No | PAGE 10 OF 22 |

Form R. D. 6100

DATES AND REASONS FOR REVISIONS 3-22-73 - Revised & Retyped - NWM/hv  
 6-24-74 - Item 67 - Added breakdown explanation of various models for clarification - NWM/TJL/hv  
 4/1/76 - Reviewed for feasibility - NWM/GRB/jc

DESCRIPTIVE INFORMATION

| Code No. | Abr. | Malfunction                | Models Involved | Explanation                                                                                                  |
|----------|------|----------------------------|-----------------|--------------------------------------------------------------------------------------------------------------|
| 67       | FD   | Follows Down               | C. 3200         | Hammer fails to properly engage with Sear and follows the cocking cam to the forward fired position.         |
| 68       | FPHI | Firing Pin hits inside Rim | All R.F.        | Firing Pin strikes completely inside periphery of rim leaving full imprint on Case Head. (May cause #56-FF). |

PART NAME \_\_\_\_\_ Malfunction Index \_\_\_\_\_ SET UP \_\_\_\_\_ MODEL NO. \_\_\_\_\_ OPER. NO. \_\_\_\_\_  
 TYPE \_\_\_\_\_ Explanation & Code Nos. - Functional Test Results \_\_\_\_\_ MACH. HRS. \_\_\_\_\_ DEPT. NO. \_\_\_\_\_ PAGE 11 OF 22  
 MACHINE

Form R. D. 0400

Pub. H. 11, 9460

DATES AND REASONS FOR REVISIONS

3-22-73 - Revised & Retyped - NWM/hiv  
 4/1/76 - Reviewed for feasibility and deleted item 80 as duplicate of item 13 - NWM/GRB/jc

DESCRIPTIVE INFORMATION

| Code No. | Abr. | Malfunction            | Model Involved           | Explanation                                                                             |
|----------|------|------------------------|--------------------------|-----------------------------------------------------------------------------------------|
| 77       | ILSB | Int. Latch Stud broken | 1100                     | S. E.                                                                                   |
| 78       |      | (Blank)                |                          |                                                                                         |
| 79       |      | (Blank)                |                          |                                                                                         |
| 80       |      | (Blank)                |                          |                                                                                         |
| 81       | JCS  | Jumps Cartridge Stop   | All R.F. w/Tube Magazine | After one shell is fed, next round jumps by cartridge stop resulting in double feed.    |
| 82       | JL   | Jumps Latch            | All S.G.                 | After one shell is fed, next round jumps by Latch resulting in double feed.             |
| 83       | JM   | Jumps Magazine         | All C.P. Rifles          | Shell jumps out of Magazine & Bolt picks up next shell resulting in double feed.        |
| 84       | JO   | Jars off               | All                      | Hammer falls to stay engaged with Sear and falls down when gun is jarred. (Not #67-F1). |
| 85       |      | (Blank)                |                          |                                                                                         |

PART NAME Malfunction Index

TYPE Explanation & Code Nos. - Functional Test Results

COOLANT

SET UP TIME

MODEL No.

OPER. No.

DEPT. No.

PAGE 13

OF 220

MACHINE

DATES AND REASONS FOR REVISIONS 3-22-73 - Revised & Retyped - NWM/hv  
 4/1/76 - Reviewed for feasibility - NWM/GRB/jc

DESCRIPTIVE INFORMATION

| Code No. | Abr. | Malfuction               | Model Involved           | Explanation                                                                                                                                             |
|----------|------|--------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 86       |      | (Blank)                  |                          |                                                                                                                                                         |
| 87       |      | (Blank)                  |                          |                                                                                                                                                         |
| 88       | LB   | Light Blow               | All                      | Firing Pin strikes Primer, but with insufficient force to make satisfactory indent and/or Primer is not detonated. (May cause #56-FF).                  |
| 89       |      | (Blank)                  |                          |                                                                                                                                                         |
| 90       |      | (Blank)                  |                          |                                                                                                                                                         |
| 91       |      | (Blank)                  |                          |                                                                                                                                                         |
| 92       | MAH  | Magazine assemblies hard | All w/Box-Type Magazines | Magazine will not assemble to gun freely with release or lock fully depressed & inserting straight upward                                               |
| 93       | MCW  | Magazine capacity wrong  | All w/Magazine           | Magazine fails to hold correct number of rounds. (more or less)                                                                                         |
| 94       | MF   | Misfires                 | All                      | Firing Pin strikes Primer with proper blow but fails to fire due to faulty ammunition. (This coding for ammunition failure only). Not #56-FF or #88-LB. |

PART NAME  
 TYPE

Malfuction Index

Explanation & Code Nos. - Functional Test Results

COOLANT

SET UP TIME

MODEL No.

MACH. HRS.

DEPT. No.

OPER No.

PAGE 14 OF 22

MACHINE

DATES AND REASONS FOR REVISIONS 3-22-73 - Revised & Retyped - NWM/hv  
4/1/76 - Reviewed for feasibility - NWM/GRB/jc

9/9/80-Updated model listing for Malf. #95-JJB/MAB-bdm

DESCRIPTIVE INFORMATION

| Code No. | Alr. | Malfunction                       | Model Involved                          | Explanation                                                                                                                                                                                                            |
|----------|------|-----------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95       | MPOP | Magazine Follower out of position | 742, 760, 7400, 7600                    | Follower jumps out of box at front.                                                                                                                                                                                    |
| 96       | MII  | MIn. Header                       | All                                     | Insufficient Cartridge headspace to close Bolt over shell. (May be the cause of #1-AB/BB).                                                                                                                             |
| 97       | ML   | Magazine loose (Falls out)        | All w/Box-Type Magazine                 | Magazine Latch or Lock fails to hold Magazine Box properly in place.                                                                                                                                                   |
| 98       | MLH  | Magazine loads hard               | All w/Magazine                          | More than normal pressure is required to load live rounds in Magazine.                                                                                                                                                 |
| 99       | MRH  | Magazine removes hard (Binds)     | All w/Magazine Not fixed<br>A) Box Type | A) Magazine will not remove from gun freely pulling straight downward with Release or Lock fully depressed (R.F. Boxes remove - 20° toward muzzle).<br>B) Inner Magazine Tube catches or binds when removing from gun. |
| 100      | MX   | Max. Header                       | All                                     | Excessive Cartridge headspace between Bolt Face & Bbl. Bolt gives insufficient support to Cartridge Head. (May cause #7-BC, #27-CO, #29-CS, #112-PI, etc.)                                                             |

PART NAME Malfunction Index SET UP TIME MODEL No. OPER. No.  
TYPE Explanation & Code Nos. - Functional Test Results MACH. HRS. DEPT. No. PAGE 15 OF 22  
MACHINE

Form B. D. 6466

| DATES AND REASONS FOR REVISIONS                                                                                                                                                                                                                                                                                                           |      |                       |                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-22-73 - Revised & Retyped - NWM/hv                                                                                                                                                                                                                                                                                                      |      |                       |                                                                                                                                                                                                                    |
| 4/1/76 - Reviewed for Feasibility - NWM/GRB/jc                                                                                                                                                                                                                                                                                            |      |                       |                                                                                                                                                                                                                    |
| 9/30/80 - Updated model listing for Malf. #108-JJB/MAB/bdm                                                                                                                                                                                                                                                                                |      |                       |                                                                                                                                                                                                                    |
| DESCRIPTIVE INFORMATION                                                                                                                                                                                                                                                                                                                   |      |                       |                                                                                                                                                                                                                    |
| Code No.                                                                                                                                                                                                                                                                                                                                  | Abr. | Malfunction           | Model Involved                                                                                                                                                                                                     |
| 101                                                                                                                                                                                                                                                                                                                                       | MCSO | Magazine Cap shot off | All S.G.                                                                                                                                                                                                           |
| 102                                                                                                                                                                                                                                                                                                                                       |      | (Blank)               |                                                                                                                                                                                                                    |
| 103                                                                                                                                                                                                                                                                                                                                       | NBP  | No Barrel Pin         | 500, 590 Series, 540X S.E.                                                                                                                                                                                         |
| 104                                                                                                                                                                                                                                                                                                                                       |      | (Blank)               |                                                                                                                                                                                                                    |
| 105                                                                                                                                                                                                                                                                                                                                       |      | (Blank)               |                                                                                                                                                                                                                    |
| 106                                                                                                                                                                                                                                                                                                                                       | OH   | Opens hard            | All                                                                                                                                                                                                                |
| 107                                                                                                                                                                                                                                                                                                                                       | OOS  | Opens on Safe         | 600, 700,                                                                                                                                                                                                          |
| 108                                                                                                                                                                                                                                                                                                                                       | OR   | Over-Rides            | All Repeating Rifles except 742, 7400 (See #113-POR, 132-SOR)                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                           |      |                       | Abnormal pressure is required to open Action by hand. (On manually operated guns this is not to be considered a malfunction if Action can be opened with one hand). I.e. M/870, 760, 572.                          |
|                                                                                                                                                                                                                                                                                                                                           |      |                       | Action can be opened with Safe in "S" (ON) position.                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                           |      |                       | Bolt fails to pick up next shell in Magazine resulting in Action closing over an empty chamber. The Bullet Nose may be out of the Magazine in which case, the Bolt over-rides the rear of the Case, causing a jam. |
| <div> <div>PART NAME</div> <div>Malfunction Index</div> </div> <div> <div>TYPE</div> <div>Explanation &amp; Code Nos. - Functional Test Results</div> </div> <div> <div>SET UP TIME</div> <div>MACH. HRS.</div> </div> <div> <div>MODEL NO.</div> <div>DEPT. NO.</div> </div> <div> <div>OPER. NO.</div> <div>PAGE 16 OF 220</div> </div> |      |                       |                                                                                                                                                                                                                    |

DATES AND REASONS FOR REVISIONS 3-22-73 - Revised & Retyped - NWM/hv  
 4/1/76 - Reviewed for feasibility - NWM/GRB/jc  
 9/30/80-Updated model listing for malf. #113,118-JJB/MAB/bdm

DESCRIPTIVE INFORMATION

| Code No. | Abr. | Malfunction                   | Model Involved                                      | Explanation                                                                                                        |
|----------|------|-------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 109      |      | (Blank)                       |                                                     |                                                                                                                    |
| 110      |      | (Blank)                       |                                                     |                                                                                                                    |
| 111      |      | (Blank)                       |                                                     |                                                                                                                    |
| 112      | PH   | Pulls Head                    | All S.G.                                            | Paper or plastic of shell is pulled completely or partially out of the brass. (Not #27-CO).                        |
| 113      | POR  | Power Over-Rides              | 742 , 7400                                          | After firing, Bolt closes over empty chamber, doesn't pick up next round.                                          |
| 114      |      | (Blank)                       |                                                     |                                                                                                                    |
| 115      |      | (Blank)                       |                                                     |                                                                                                                    |
| 116      |      | (Blank)                       |                                                     |                                                                                                                    |
| 117      | RC   | Rough Chamber                 | All                                                 | Chamber walls show dlgs, including rings, rust, tool marks, etc. usually evidenced by marks on fired cases in C.F. |
| 118      | RDW  | (Action) Release doesn't work | 552, 572, 742, 760,<br>48, 870, 1100, 7400,<br>7600 | Action fails to function manually.                                                                                 |

PART NAME \_\_\_\_\_  
 TYPE \_\_\_\_\_

Malfunction Index

Explanation & Code Nos. - Functional Test Results

COOLANT

SET UP TIME

MODEL No.

OPER. No.

MACH. HRS.

DEPT. No.

PAGE 17

OF 22

MACHINE

DATE AND REASONS FOR REVISIONS 3-22-73 - Revised & retyped - NWM/hv  
 3-22-74 - Item 121, SHTL added - NWM/TJ/hv  
 4/1/76 - Reviewed for feasibility - NWM/GHB/jc  
 9/30/80 - Updated model listing for Malf. #125-JJB/MAB/bdm

DESCRIPTIVE INFORMATION

| Code No. | Abr. | Malfunction              | Model Involved         | Explanation                                                                                                                                                 |
|----------|------|--------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 119      | RS   | Rim Stem                 | 552, 572               | Shell Rim binds or catches in Feeding Groove in Barrel preventing proper feed-up.                                                                           |
| 120      |      | Blank                    |                        |                                                                                                                                                             |
| 121      | SHTL | Shell hits Top Lock      | 3200                   | When Action is opened slowly after firing, Ejector functions to remove low base shell from bottom barrel but shell hits Top Lock & is not ejected from Gun. |
| 122      | SCX  | Shell catches extracting | All                    | Shell binds on an obstruction in Breech end of Barrel or in Receiver during extraction cycle. (May cause #1-AB).                                            |
| 123      | SHI  | Short Indent             | All R.F.               | Firing Pin Indent appears as a small nick at rim of case with little or no coverage on shell head. (May cause #56-FF).                                      |
| 124      | SBC  | Stems Bottom Chamber     | All                    | Forward motion on closing the Action is stopped as a result of the bullet tip jamming on the bottom edge of Chamber.                                        |
| 125      | SBE  | Stems Barrel Extension   | 742, 760<br>7400, 7600 | Forward motion of the Action is stopped as a result of the bullet tip jamming into the Barrel Extension.                                                    |

PART NAME \_\_\_\_\_ Malfunction Index \_\_\_\_\_ SET UP TIME \_\_\_\_\_ MODEL No. \_\_\_\_\_ OPER. No. \_\_\_\_\_  
 TYPE \_\_\_\_\_ Explanation & Code Nos. - Functional Test Results \_\_\_\_\_ MACH. HRS. \_\_\_\_\_ DEPT. No. \_\_\_\_\_ PAGE 18 of 22  
 MACHINE \_\_\_\_\_

| DATES AND REASONS FOR REVISIONS                                                                                              |                                            |                        |                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 3-22-73 - Items 137-138 - Revised to include 0/4 3200 Selector - NMM/hv - Retyped                                            |                                            |                        |                                                                                                                                       |
| 12-7-73 - Added Item #142 - NMM/TLL/hv 5/9/75 - Added explanation to item 139 for clarification NMM/GRB/hf                   |                                            |                        |                                                                                                                                       |
| 5/28/75 Added information to items 134 & 135 and reworded item 138 for clarification - Also retyped from 5/9/75 - NMM/GRB/hf |                                            |                        |                                                                                                                                       |
| 4/1/76 - Reviewed for feasibility - NMM - URB/jc                                                                             |                                            |                        |                                                                                                                                       |
| DESCRIPTIVE INFORMATION                                                                                                      |                                            |                        |                                                                                                                                       |
| Code No.                                                                                                                     | Malfunction                                | Model Involved         | Explanation                                                                                                                           |
| 134                                                                                                                          | SRC<br>Stems right side of Chamber         | All                    | The forward motion of the Action is stopped as a result of the bullet tip or nose of shell jamming on the right side edge of chamber. |
| 135                                                                                                                          | STC<br>Stems Top Chamber                   | All                    | The forward motion of the Action is stopped as a result of the bullet tip or nose of shell jamming on the top edge of chamber.        |
| 136                                                                                                                          | SSC<br>Shells stem Carrier                 | All w/Tubular Magazine | Shell feeding from Magazine catches on front end of Carrier.                                                                          |
| 137                                                                                                                          | SME<br>Safety or Selector works too easily | All                    | Safety or Selector doesn't have enough tension or "snap" to engage in specified positions properly.                                   |
| 138                                                                                                                          | SMH<br>Safety or Selector works too hard   | All                    | Safety or Selector has too much tension to move from one position to another properly.                                                |
| 139                                                                                                                          | SMW<br>Safety won't work                   | All                    | Safety won't go on or off                                                                                                             |
| 140                                                                                                                          | (Blank)                                    |                        |                                                                                                                                       |
| 141                                                                                                                          | (Blank)                                    |                        |                                                                                                                                       |
| 142                                                                                                                          | TIDL<br>Top Lock doesn't latch             | 3200                   | Top Lock goes forward after opening gun - doesn't latch open in rear position.                                                        |

  

|           |                                                   |             |           |               |
|-----------|---------------------------------------------------|-------------|-----------|---------------|
| PART NAME | Malfunction Index                                 | SET UP TIME | MODEL No. | OPER. No.     |
| TYPE      | Explanation & Code Nos. - Functional Test Results | MACH. HRS.  | DEPT. No. | PAGE 20 OF 22 |
| MACHINE   |                                                   |             |           |               |

| DATES AND REASONS FOR REVISIONS                                                                                                                                                                                                                                                                                                                                        |      |                       |                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Retyped - 1/22/75 - NWM/GRB/hf                                                                                                                                                                                                                                                                                                                                         |      |                       |                                                                                                                                                            |
| 1/22/75 - Separated FC/FF/TWW to 50, 56, 145 for clarification - NWM/GRB/Lf                                                                                                                                                                                                                                                                                            |      |                       |                                                                                                                                                            |
| 6/1/86 - Reviewed for feasibility - NWM/GRB/jc                                                                                                                                                                                                                                                                                                                         |      |                       |                                                                                                                                                            |
| DESCRIPTIVE INFORMATION                                                                                                                                                                                                                                                                                                                                                |      |                       |                                                                                                                                                            |
| Code No.                                                                                                                                                                                                                                                                                                                                                               | Abr. | Malfunction           | Model Involved                                                                                                                                             |
| 143                                                                                                                                                                                                                                                                                                                                                                    | TD   | Tips Down             | All R.F.<br>w/Magazine                                                                                                                                     |
| 144                                                                                                                                                                                                                                                                                                                                                                    | TU   | Tips Up               | 552, 572                                                                                                                                                   |
| 145                                                                                                                                                                                                                                                                                                                                                                    | TWW  | Trigger Won't work    | All                                                                                                                                                        |
| 146                                                                                                                                                                                                                                                                                                                                                                    |      | (Blank)               |                                                                                                                                                            |
| 147                                                                                                                                                                                                                                                                                                                                                                    | XII  | Extracts hard         | All                                                                                                                                                        |
| 148                                                                                                                                                                                                                                                                                                                                                                    | XHB  | Extractor Hits Barrel | All except<br>C.F. Rifle                                                                                                                                   |
| 149                                                                                                                                                                                                                                                                                                                                                                    |      | (Blank)               |                                                                                                                                                            |
| 150                                                                                                                                                                                                                                                                                                                                                                    |      | Uncoded Defects       | All                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                        |      |                       | Explanation                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                        |      |                       | Front end of shell is not supported, permitting nose of bullet to tip down when feeding (May cause #124-SUC)                                               |
|                                                                                                                                                                                                                                                                                                                                                                        |      |                       | When feeding toward chamber, live round falls to align properly. Front end of shell is tipped upward causing Bolt to jam against it. (May cause #135-STC). |
|                                                                                                                                                                                                                                                                                                                                                                        |      |                       | Trigger won't move when pulled or won't retract after pulling.                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                        |      |                       | Shell or cartridge extracts but requires more than normal pressure (Not #106-OH).                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                        |      |                       | Forward motion of the Action is stopped as a result of the Extractor jamming Breech area of Barrel. Action need not be feeding cartridge at time.          |
|                                                                                                                                                                                                                                                                                                                                                                        |      |                       | Any defect not currently included in above list.                                                                                                           |
| PART NAME <u>Malfunction Index</u> COOLANT <u>                    </u> SET UP <u>                    </u> MODEL No. <u>                    </u> OPER. No. <u>                    </u><br>TYPE <u>Explanation &amp; Code Nos.</u> - Functional Test Results    MACH. HRS. <u>                    </u> DEPT. No. <u>                    </u> PAGE <u>21</u> OF <u>22</u> |      |                       |                                                                                                                                                            |

DATES AND REASONS FOR REVISIONS 3-22-73 - Added Items 165 thru 173 - New - NWM/hv  
4-17-73 - Added Item 166 - NWM/TL/hv  
4/1/76 - Reviewed for feasibility - NWM/GRB/jc

DESCRIPTIVE INFORMATION

| Code No. | Abr. | Malfunction             | Model Involved | Explanation                                                                                    |
|----------|------|-------------------------|----------------|------------------------------------------------------------------------------------------------|
| 165      | BOE  | Burr on Ejector         | 3200           | Burr on Ejector marks base of shell.                                                           |
| 166      | EHR  | Ejector Hammer releases | 3200           | Ejector Hammer releases when taking Fore-End off or opening action.                            |
| 167      | FELI | Fore End loose on Iron  | 3200           | Fore End not securely fastened on Fore End Iron, allows Fore End to show separation when shot. |
| 168      |      |                         |                |                                                                                                |
| 169      | FESO | Fore End shoots off     | 3200           | Fore End does not latch properly and shoots off in test.                                       |
| 170      |      |                         |                |                                                                                                |
| 171      | FPP  | Firing Pin protrudes    | 3200           | Firing Pin protrudes beyond face of block and catches on shell when closing Action.            |
| 172      |      |                         |                |                                                                                                |
| 173      | TLB  | Top Lock binds          | 3200           | Top Lock requires more than normal force to disengage.                                         |

PART NAME Malfunction Index

COOLANT

TYPE Explanation & Code Nos. - Functional Test Results

SET UP TIME

MODEL No.

OPER. No.

DEPT. No.

PAGE 22 OF 22

MACH. HRS.

MACHINE