



CROSMAN ARMS

980 Turk Hill Road, Fairport, New York 14450



MODEL 760 (HAMMER DROP) SERVICE

General operating instructions for this model are contained in the Owner's Manual and should be read thoroughly. The detailed drawings, repair instructions and Disassembly/Assembly procedures must be studied carefully before any repair work is started. This will insure quicker and more precise repair of gun.

It is not always necessary to disassemble the entire gun in repair work it is hoped that this section will assist you in diagnosing the repair problem and will speed up repair time.

TROUBLE SHOOTING

PROBLEM I - Gun Will Not Fire

POSSIBLE CAUSES	REPAIR PROCEDURES
Interlock 760-087 damaged or not working properly.	 See Disassembly/Assembly Procedures Receiver Group (VI) Inspect Interlock 760-087 for wear or damage. If necessary to replace, pry off Interlock Retainer 760A090 and remove Interlock Spring 760A088 Interlock 760-087 and Interlock Bushing 760-089.
Bolt Lever 760-091 is open or not completely in closed position.	 If Bolt Lever 760-091 is open or not completely closed it will inter- fere with Interlock 760A087 and prevent gun from firing.

PROBLEM II - Leaks

POSSIBLE CAUSES	1. See Disassembly/Assembly Procedures — Valve and Tube Group (X) 2. Valve Stem Assembly 1322-011, must be replaced if damaged or defective.
Defective Valve Stem Assembly 1322-011.	
2. Defective Check Valve 1400A029.	1. If Lever kicks back when pumping gun, it will indicate that the Check Valve 1400A029 is defective. 2. See Disassembly/Assembly Procedures — Valve and Tube Group (X). 3. Replace Check Valve 1400A029.

PROBLEM III - Low Power

POSSIBLE CAUSES	REPAIR PROCEDURES
Seal on Valve Stem Assembly 1322-011 is distorted allowing too little air pressure into Exhaust Hole.	See Disassembly/Assembly Procedures — Valve and Tube Group (X). Check Seal on Valve Stem Assembly 1322-011 and replace entire Assembly if necessary.
2. Valve Leaks	 See Problem I — Leaks — Trouble Shooting Section.
 Compressed or defective Pump Cup 766-035. 	1. See Disassembly/Assembly Procedures — Lever and Pump Group (III). 2. Inspect and replace Pump Cup 766-035 if necessary. 1. See Disassembly/Assembly Procedures — Valve and Tube Group (X). 2. Replace Breech Gasket 130-036 if necessary.
4. Defective or missing Gasket 130-036.	
5. Connecting Rod Assembly 1322-019 is too short and will not compress air in Valve Assembly.	1. One way to check for this cause is to pump gun two times and fire. If gun does not expel pellet, then connecting Rod Assembly 1322-019 may need to be replaced. 2. See Disassembly/Assembly Procedures — Lever and Pump Group (III).

PROBLEM IV — Gun Fails To Exhaust Air

POSSIBLE CAUSES	REPAIR PROCEDURES
1. Gun has been over - pumped.	1. If gun pumps very hard, compression build-up will indicate gun has been over-pumped, not allowing Hammer to exhaust any air. 2. See Disassembly/Assembly Procedures — Valve and Tube Group (X). NOTE: Place Valve Assembly 760A101 on bench with Valve Stem Assembly 1322-011 facing up and exhaust hole away from you. Then hit Valve Stem Assembly 1322-011, thereby expelling the air.

2. Distorted Seal or Compressed ring on Valve Stem Assembly 1322-011.

- 1. See Disassembly/Assembly Procedures Valve and Tube Group (X).
 - Inspect Seal on Valve Stem Assembly 1322-011 and replace if necessary.

NOTE: Before turning Valve Assembly **769A101** apart follow instructions as given in Repair Procedures of Problem IV, -1.

PROBLEM V — Lever Does Not Stay In Locked Position

POSSIBLE CAUSES		ES	REPAIR PROCEDURES
1. Worn 760-063.	Detent	Plug	1. See Disassembly/Assembly Procedures — Lever and Pump Group (III). 2. Inspect Detent Plug 760-063 and replace if necessary. 3. To replace Detent Plug 760-063, punch it out of Lever/Link Assembly 760A043. 4. If new Detent Plug 760-063 is not available, compress Lever/Link Assembly 760A043 opening with pliers so that inside of Lever/Link Assembly 760A043 will be tightened against Detent Plug 760-063.

PROBLEM VI — Fails To Shoot Pellets or BBs

POSSIBLE CAUSES	REPAIR PROCEDURES
Barrel 760-093 is jammed with BBs or Pellets.	See Disassembly/Assembly Procedures — Barrel Group (IV). Inspect inside of Barrel 760-093 to make sure that outer shells of Pellet is not in Barrel and that no other obstructions are visible. Inspect for jammed BBs. Oversized or reused BBs may be the
	cause of jamming. NOTE: Customer should be advised that Crosman Super BBs should be the only ammunition used and that reused BBs may jam gun.

PROBLEM VII — Gun Fails To Cock

POSSIBLE CAUSES	REPAIR PROCEDURES
1. Worn or defective Sear 760-084.	See Disassembly/Assembly Procedures — Trigger and Sear Group (VIII). Inspect Sear 760-084 and replace if necessary.
Disconnected or impro- perly installed Trigger Spring 761A005 .	See Disassembly/Assembly Procedures — Trigger and Sear Group (VIII). Inspect Trigger Spring 761A005 and replace Assembly if necessary.

PROBLEM VIII — BBs Fail To Drop Into Chambers

POSSIBLE CAUSES	REPAIR PROCEDURES	
1. Magnet on Bolt Assembly 760-098 is too long or loose.	See Bolt Lever Bolt Assembly and Hammer Group (IX). Inspect Bolt Assembly 760-098 and replace if necessary.	
 Foreign material or Pellets in BB Cham- ber or Magazine. 	See Disassembly/Assembly Procedures — Receiver Group (VI). Inspect Chamber and Magazine and clear areas.	

PROBLEM IX — BBs Roll Out Of Magazine When Bolt Is Pulled Back; BBs Roll Back Into Reservoir

POSSIBLE CAUSES	REPAIR PROCEDURES 1. See Disassembly/Assembly Procedures — Bolt Assembly and Hammer Group (IX). 2. Replace Bolt Assembly 760-098 if magnet is missing.
1. Magnet on Bolt Assembly 760-098 is missing.	
2. BB Retainer 760A021 is broken or worn.	See Disassembly/Assembly Procedures — BB Retainer Group (VII). Remove Right Hand Receiver 760-095 replace BB Retainer 760A021.

PROBLEM X — BBs Roll Out Of Barrel When Bolt Is Closed

POSSIBLE CAUSES	REPAIR PROCEDURES
1. Magnet on Bolt Assembly 760-098 is weak or missing.	See Disassembly/Assembly Procedures — Bolt Lever, Bolt Assembly and Hammer Group (IX). Replace Bolt Assembly 760-098 if magnet is weak or missing.

PROBLEM XI — Pellets Move Into Barrel Chamber With Difficulty

POSSIBLE CAUSES	REPAIR PROCEDURES 1. See Disassembly/Assembly Procedures — Barrel Group (IV). 2. Inspect Chamber of Barrel 760-093 for burrs, deformities and foreign matter. 3. Replace Barrel 760-093 if necessary.
1. Defective Barrel Chamber.	
2. Burrs on Exhaust hole on Barrel Support 760-074.	See Disassembly/Assembly Procedures — Barrel Group (IV). Inspect Barrel Support 760-074 and replace if necessary.

- 1. Put together Connecting Rod Assembly 1322-019 and Pump Cup 766-035.
- Place Pump Guide Pin 101-033 through Connecting Rod Assembly 1322-019 and Lever/Link Assembly 760A043.
- With Pump Assembly parts together, slide the unit into Pump Tube 760-094.
- 4. Test for compression before continuing assembly. Place ³/₁₆" punch through hole in Pump Tube 760-094 and Pivot Pin 760-071 hole on Lever. Remove Unit from vise, pump gun and fire to check for proper operation. If operation is correct continue to next step. Otherwise recheck steps 1-3.
- 5. With Lever open about 2", place Pump Tube **760-094** back in vise.
- Slide front Barrel Guide 760B008 back onto Pump Tube 760-094.
- Carefully drive Pivot Pin 760-071 through Pump Tube 760-094 and Lever/Link Assembly 760A043 and replace Pivot Pin Retainer 760-072.
- Remove from Vise and replace Front Set Screw 760A027.

IV BARREL GROUP

A. DISASSEMBLY

NOTE: Barrel 760-093 can be removed without disassembling Group I, II, and III.

- Remove two (2) Rear Sight Screws 160-029, Rear Sight 160-020 and Elevator 160-021.
- Remove rear and front Set Screws 760A027.
- Slide out Barrel 760-093 and unjam or replace if necessary.

B. ASSEMBLY

1. Replace Barrel 760-093.

NOTE: When replacing Barrel 760-093, be sure that detent spot in Barrel 760-093 is located properly over Set Screw holes for proper alignment.

- Replace rear and front Set Screws 760A027.
- Replace Rear Sight 160-020, Elevator 160-021 and Rear Sight Screws 160-029. NOTE: Rear Sight Assembly must be replaced before test firing.

V BB PORT COVER GROUP

A. DISASSEMBLY

 Turn BB Port Cover 760-082 counterclockwise and pry it out.

B. ASSEMBLY

 Place BB Port Cover 760-082 over hole and press into place.

VI RECEIVER GROUP

A. DISASSEMBLY

- 1. Remove Bolt Knob 760-050.
- Remove two (2) Receiver Screws 760-025 and one (1) Receiver Screw 110-049.
- 3. Place Bolt Lever 760-091 in upright posi-

tion and lift off Right Hand Receiver Assembly 760A102.

 Inspect parts inside Right Hand Receiver Assembly 760A102. If necessary pry off Interlock Retainer 760A090; and remove Interlock Spring 760A088, Interlock 760-087 and Interlock Bushing 760-089. Replace worn parts.

B. ASSEMBLY

- Replace Interlock Assembly into Right Hand Receiver 760-095 in reverse order of disassembly.
- NOTE: Before replacing Right Hand Receiver Assembly 760A102, make sure that all parts located in Left Hand Receiver 760-096 are in proper position. Pull back Bolt Lever 760-091 and Bolt Assembly 760-098 so that Sear 760-084 latches on last click in cocked position. This will move Bolt Assembly 760-098 away from Interlock 760-087.
- Replace Right Hand Receiver Assembly 760A102.

NOTE: If difficulty is encountered in assembling Right Hand Receiver 760A102, check to see if Barrel Support 760-074 is lined up with hole in Right Hand Receiver 760A102. It is helpful to put Lever Assembly in open position and to make sure that Bolt Assembly is back completely.

VII BB RETAINER GROUP

A. DISASSEMBLY

 NOTE: To repair this group, it is necessary to remove Receiver Group VI.
 Remove BB Retainer 760A021 (see Receiver Group (VI).

NOTE: If BB Retainer 760A021 moves back and forth too freely, this will indicate that detent button on BB Retainer 760A021 is broken or worn and part must be replaced.

VIII TRIGGER AND SEAR GROUP

A. DISASSEMBLY

NOTE: To repair this part of gun it is only necessary to remove Receiver Group (VI) and BB Retainer Group VII.

- Pry Trigger Spring 761A005 forward and remove Safety 760-017 from Left Hand Receiver 760-096.
- Lift Trigger Spring 761A005 from Trigger Assembly 760A100 and unhook from Sear 760-084.
- Pull out Trigger Pivot Pin 760-016 from Sear 760-084 and remove Sear 760-084.
- Lift out Trigger Pivot Pin 760-016 from Left Hand Receiver 760-096 and remove Trigger Assembly 760A100.
- 5. Remove Trigger Return Spring 760-104.

B. ASSEMBLY

 Replace Trigger Return Spring 760-104 over rear Trigger boss with hooked end down and to rear of casting as shown in E.V.P.

- Place Trigger Pivot Pin 760-016 in rear boss.
- Slide Trigger Assembly 760A100 over Trigger Pivot Pin 760-016 and hook Trigger Return Spring 760-104 on top rear of Trigger Assembly 760A100.

NOTE: Test Trigger Assembly 760A100 for spring tension.

- Place Trigger Pivot Pin 760-016 in hole forward of Trigger Assembly 760A100.
- Place Sear 760-084 over Pivot Pin 760-016 and make sure hole in Sear 760-084 is located over Pivot Pin 760-016 on Trigger Assembly 760A100.
- Hook Trigger Spring 760A005 in small hole in Sear 760-084 and at same time slide Trigger Spring 761A005 over Pivot Pin 760-016. Allow Trigger Spring 761A005 to rest against casting and over Safety hole.
- Slide Safety 760-017 in from left side of Left Hand Receiver 760-096, moving Trigger Spring 761A005 forward so that it will hold the Safety 760-017 in place.

IX BOLT LEVER AND BOLT ASSEMBLY AND HAMMER GROUP

A. DISASSEMBLY

NOTE: It is only necessary to remove Groups VI and VII to work on this group.

- Lift Barrel 760-093, Pump Tube 760-094, Lever/Link Assembly 76A043, Bolt Assembly 760-098 and Bolt Lever 760-091 as one unit from Left Hand Receiver 760-096.
- Remove Bolt Assembly 760-098 and Bolt Lever 760-091 from Pump Tube 760-094.
- Slide from rear of Pump Tube 760-094, the Tube Plug 760-081, Hammer Spring 760-080 and Hammer Assembly 760B099.
- NOTE: All parts should be inspected for damage, wear or any other defect and replace if necessary.

B. ASSEMBLY

- Slide Hammer Assembly 760B099, Hammer Spring 760-080 and Tube Plug 760-081 into rear of Pump Tube 760-094.
- 2. Properly line up Tube Plug 760-081 with Hole in Pump Tube 760-094.
- Place Bolt Lever 760-091 in slot on top of Bolt Assembly 760-098.
- 4. Place Bolt Assembly 760-098 on top of Pump Tube 760-094 and over Hammer cocking pin on Hammer Assembly 760B099. Cocking pin must be in slot of Bolt Assembly 760-098 so that Hammer Assembly 760B099 can cock properly.
- As one unit, place Pump Tube 760-094 and Bolt Assembly 760-098 into Left Hand Receiver 760-096 making sure locating hole in Pump Tube 760-094 is over boss on Left Hand Receiver 760-096.
- Pull Bolt Assembly 760-098 back slightly to check for tension and proper location.

 Assembly Trigger and Sear Group (VIII) and Receiver Group (VI) per Assembly instructions in those sections.

X VALVE AND TUBE GROUP

A. DISASSEMBLY

NOTE: Groups III, VI, VIII and IX must be removed to work on this unit.

- Remove Breech Gasket 130-036 from exhaust hole in Pump Tube 760-094.
- With ½" rod or dowel, gently push out from rear of the pump Tube 760-094, Valve Assembly 760A101.
- Disassemble Valve Assembly 760A101 as follows:

CAUTION: Be sure all air is exhausted from Valve Assembly **760A101**. Tap Valve Stem on bench to make sure all air is exhausted.

- a. Grip Valve Body 760-075 with a pair of vise grips.
- Apply a small amount of heat at center of Valve Assembly 760A101 to loosen Locktite.
- c. With a pair of pliers loosen two parts, 760-075 and 130B005, of the Valve Assembly 760A101 and separate.
- d. Remove Valve Stem Assembly 1322-011, check Valve Spring 760-103, Valve Spacer 760-086 and Check Valve 1400A029.
- Remove O Rings 130-034 and 130-035 from Check Valve Body 130B055.

B. ASSEMBLY

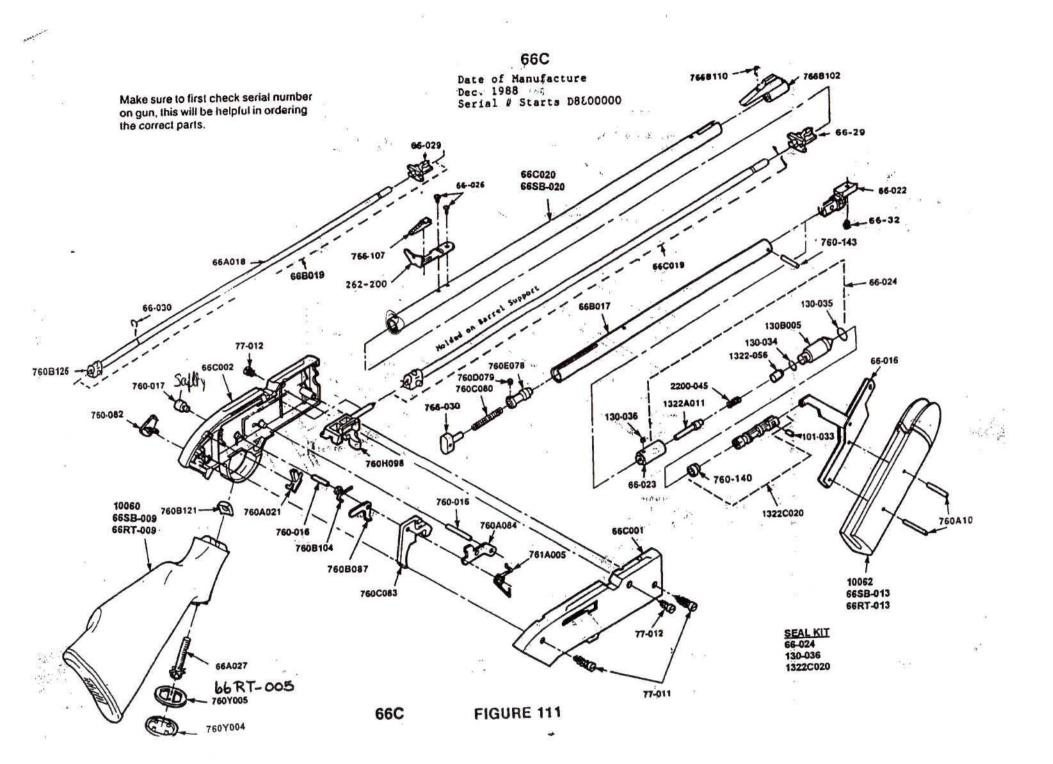
NOTE: Before reassembly, inspect all parts for wear or damage. It is recommended that O Ring 130-034 and 130-035, Check Valve 1400A029 and Valve Stem Assembly 1322-011 be replaced with new parts.

- Place O Rings 130-034 and 130-035 on Check Valve Body 130B005.
- Reassemble Valve Stem Assembly 1322-011, Check Valve Spring 760-103, Valve Spacer 760-086 and Check Valve 1400A029 into Valve Assembly 760A101 as shown on E.V.P.
- Apply a small amount of Locktite to thread on Check Valve Body 130B005 and turn two valve parts together and tighten with pliers.
- Slide Valve Assembly 760A101 into Pump Tube 760-094.

NOTE: Be sure to line up exhaust hole in Valve Assembly **760A101** with exhaust hole in Pump Tube **760-094**.

- Replace Breech Gasket 130-036 in exhause of Pump Tube 760-094.
- 6. Then put pump tube in vise upside down with about one inch of front end of the tube protruding from vise jaws. Slide pump piston and lever assembly as one unit into pump tube. Then place front barrel guide 760B008 in end of tube and properly line up all holes and replace pivot pin through tube, barrel guide and lever pivot hole.

- Slide Barrel 760-093 through Barrel Guide 760B008.
- 8. Place Barrel Support 760-074 as shown on E.V.P. on Barrel 760-093, making sure it is properly located over detent spot on Barrel. Replace Set Screw 760A027 and tighten.
- Place Barrel Support 760-074 in exhaust hole on top of Tube on Breech Gasket 130-036. Line up detent spot properly over hole in Front Barrel Guide 760B008, replace Set Screw 760A027 and tighten.
- Assemble as instructed in Bolt Lever and Bolt Assembly Group IX -B and then complete the reassembly of all the above groups.



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