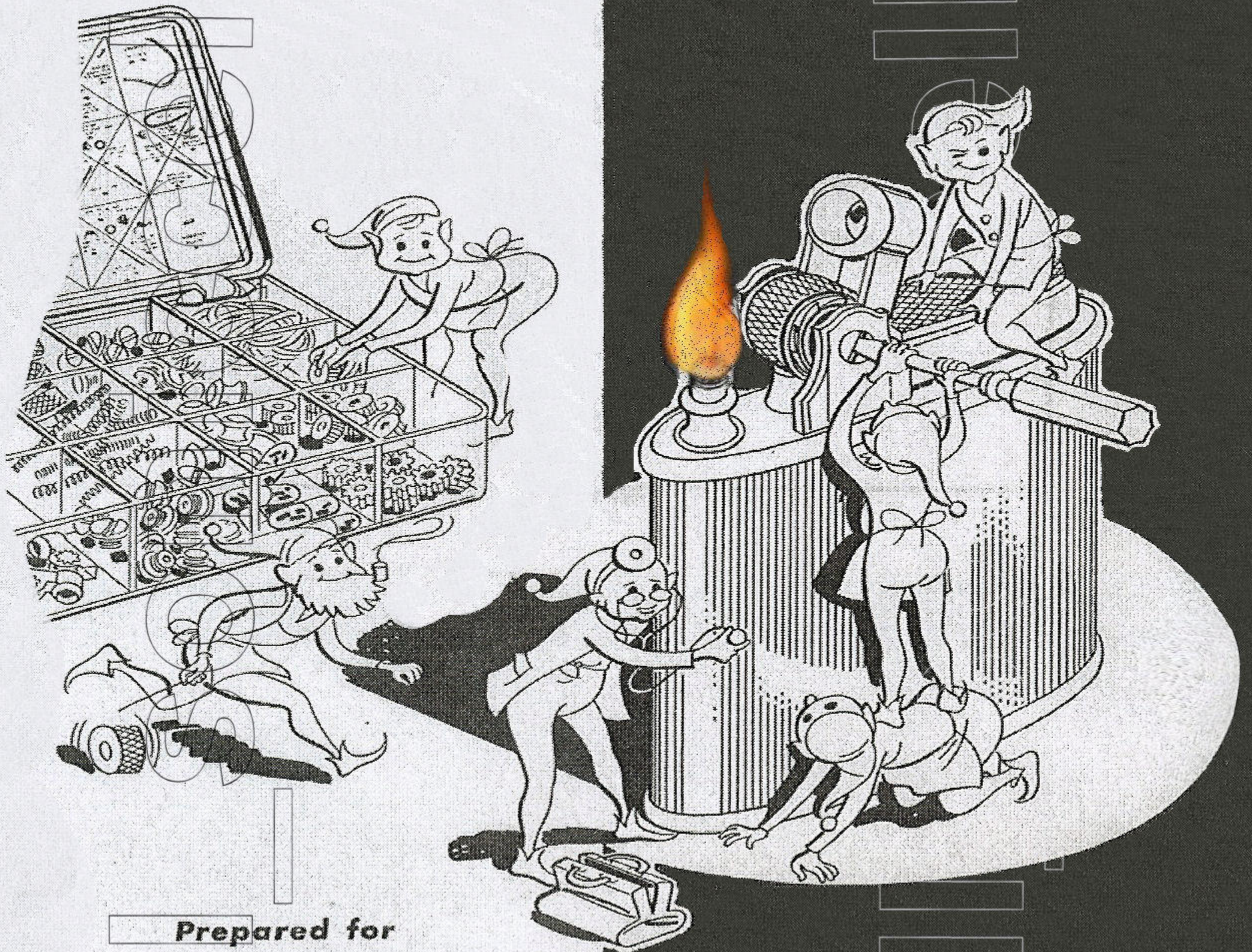


LIGHTER REPAIR MANUAL

For All Cigarette Lighters
(Foreign & Domestic)

1954



Prepared for

LIGHTER PARTS INC.

2-4 EAST STOCKTON AVENUE
PITTSBURGH 12, PA

by Gilbert J. Gaugler

An Industry Is Born

This is a true story about an industry. It may be small when compared with the giants of American Commerce, but it fills a vital need in today's living. This industry is Lighter Repair. We take great pride in truly being the "father" of this industry. Since our humble beginning, it has taken definite form and today stands alone on its merits.

Lighter Parts, Inc., had its beginning in the late 40's when Jack Levin, owner of several cigar stores, discovered that a great many of his customers were bringing cigarette lighters in and asking his smoking pipe repairmen to try and fix them. After checking around Mr. Levin found that there were no lighter repair stations in this city, and he decided to try to obtain parts and open a lighter repair department. The first stumbling block came when he was unable to secure parts from some of the lighter companies. This did not stop him, instead, after doing a little investigating he discovered that the lack of lighter repair stations was prevalent all over the United States. He decided to manufacture the parts to use in his own shop and to set up an organization to sell these parts all over the country.

To help him in organizing this new venture a corporation was formed, consisting of himself and his brothers Harry and Sol. Research by the three brothers brought to light that there were millions of lighters hidden in desk drawers of smokers. It was just too much trouble for the owners to return these lighters to the original factory for repair, so they just lay idle. Also, many of these same owners objected to the wait and postage expense, which might even exceed the original cost of the lighter.

After further research and discussion, the Levin brothers selected Mr. Gil Gaugler, their ace pipe repairman (a disabled veteran who was machine-gunned in action and still carries bullets in him) to spearhead their new Lighter Repair Company. He was sent to the various lighter manufacturers to study their methods. From what he learned through this study, and through first-hand working with hundreds of makes of lighters, he fast became one of America's foremost authorities on lighter repair. This book is the result of Mr. Gaugler's studies. He is now General Manager of Lighter Parts, Inc.

The employee roster of Lighter Parts, Inc. still includes, besides Mr. Gaugler, many disabled veterans who started with the Company in 1948. These loyal employees represent the foundation of Lighter Parts, Inc.

Lighter Parts, Inc. from a most humble beginning, now supplies hundreds of thousands of parts a week to more than 5000 firms and stores all over the world.

Stores all over the country, in every category of business, including Drug, Radio, Electrical Appliances . . . Locksmiths . . . even gift stores are now repairing all makes of lighters. They find that this lighter repair service, not only increases sales, but brings many new customers into their stores as well.

Research and working with stores all over the country, supplying them with parts, resulted in the original Kit Packet. With a kit packet for as little as \$10.00, a man can start in the lighter repair business. However, our factory still maintains a direct service on any lighters that are sent to us by repair firms that are too difficult for them to handle.

We would like to offer our sincere thanks to our many customers for their help and suggestions, which have greatly aided us in preparing this book.

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LIGHTER PARTS, INC.

2-4 East Stockton Ave. • Pittsburgh 12, Pa.

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PITTSBURGH, PA.

PREFACE

DO YOU KNOW?

- that in these United States, where free matches are so easily obtainable, Americans are spending over \$75 million dollars a year for lighters and gadgets!
- that just as World War I popularized the wrist watch, World War II has done the same thing for lighters!
- that a prominent American lighter manufacturer does over 7 million dollars yearly repairs and reconditioning of his own lighters!
- that the field of lighter repair, despite these amazing figures, has been barely scratched!
- that, if you own a jewelry store, cigar store, locksmith shop, hobby store, electrical shop, or any other small business, and *do not* do lighter repairing, you are missing a terrific opportunity!

These facts are vitally important to you, the reader, just as this manual is your guide to greater profit . . . with little expenditure, and no extra overhead, other than your time and interest!

The materials in this manual have been carefully prepared to help lighter repairmen better understand and solve the problems of a new and profitable business. The information has been gathered from many sources, and condensed to provide maximum help in a form that is easy to use.

This book contains a series of illustrations and descriptions concerning all the popular lighters, classified according to make, model, and style of movement. It should serve as an indispensable guide.

In recent years Americans have become "lighter repair conscious" because millions of expensive lighters have been sold without adequate service or repair provisions. A lack of facilities for making minor adjustments and repairs resulted in the discarding of many of these lighters.

The one big drawback to this new industry that prevented its further growth was the lack of any uniform set of repair instructions. Because of the hundreds of letters and requests made to us by the trade for a complete book of instructions, we began compiling the first Lighter Repair Manual.

After several years of study, correspondence, and hundreds of personal interviews using every contact, every experience we've had, this Lighter Repair Manual finally began to take shape. The results of this effort are represented in this complete book on Lighter Repair. It truly represents a job of "blood, sweat and tears" on the part of scores of people. This is, of course, aside from the tremendous amount of money expended on the preparation of this book.

Lighter Parts, because of its pioneering in the lighter repair field, was the logical firm to complete this project, which has resulted in the first complete lighter repair book that covers all makes of lighters. It is the repairman's index for every lighter repair need. It explains and instructs in minute but simple detail, the many lighter working movements, interchangeable parts and the simplest methods of repair.

In short, we feel and know that this book is destined to become the "Bible" for all lighter repairmen.

ABBREVIATIONS

OF TERMS USED IN THIS BOOK

Throughout this book you will notice that we have used a number of abbreviations.

These abbreviations are peculiar to cigarette lighters and their component parts.

In view of this we feel that an explanation of the terms and abbreviations used will be very helpful in using your book to the best advantage.

<u>Abbreviations</u>	<u>Explanation</u>	<u>Abbreviations</u>	<u>Explanation</u>
N/S	New Style	P/Liter	Penciliter
O/S	Old Style	M/Case	Mastercase
S/S	Sterling Silver	10/Case	Ten-a-case
S/P	Silver Plated	20/Case	Twenty-case
G/P	Gold Plated	Br	Brass
Ch	Chromium Plated	E.T	Engine Turned
Rh	Rhodium	R.G	Rose Gold
S/C	Side Cut	Y.G	Yellow Gold
T/C	Top Cut	E.L	Extra Long
W/W	Whirlwind	Comp	Complete
Brz	Bronze	G.F	Gold Filled
T.M	Table Model	G.T	Gold Tone

To overcome this, a new and extremely profitable field has been created, which blends neatly with the services already offered by jewelry stores, cigar stores, locksmiths, etc. In addition to supplementing their income, it is a means for creating more store traffic.

By providing basic kits designed to completely outfit prospective lighter repairmen, we have found that we can encourage many repairmen to get into this business at little cost.

In addition to kits, we carry a complete line of parts for all the popular lighters now on the market. We also maintain a **REPAIR SERVICE** to help the repairman with jobs **HE CANNOT OR DOES NOT WISH TO HANDLE HIMSELF.**

We are specially equipped to give fast service on parts orders. Repaired lighters are usually in the return mail within a few days after we receive them.

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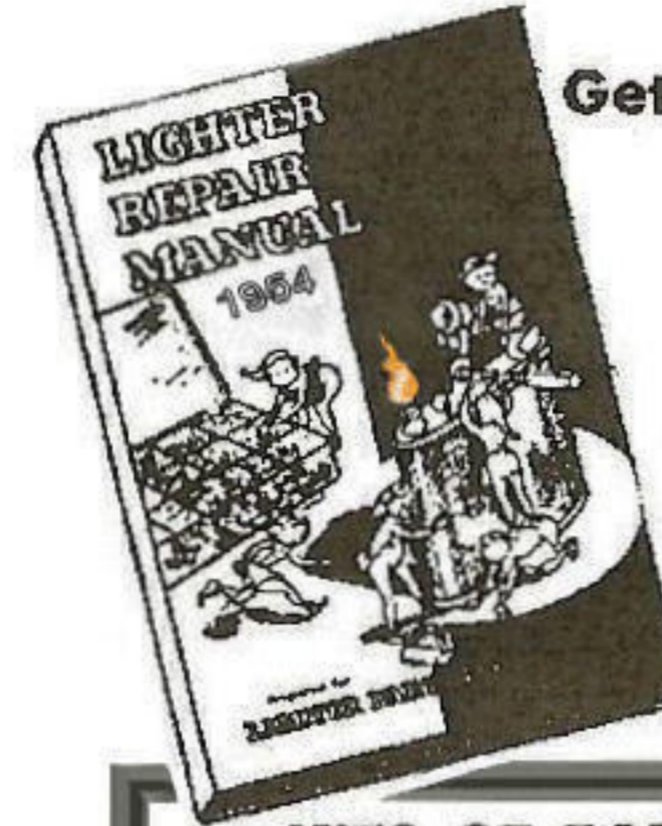
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How to Repair RONSON LIGHTERS

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Get YOUR Copy of the COMPLETE Repair Manual

FREE

(one to a customer)

1. With the purchase of a \$50.00 net kit
- Or
2. With the purchase of \$50.00 net in repair parts.

This offer subject to cancellation without notice at any time.

KITS OF PARTS TO FIT RONSON LIGHTERS ARE AVAILABLE FROM \$1000 to \$1,00000

KIT X-500

Contains 719 parts, to fit Ronson Standard, Whirlwind, Vanguard, Maximus, Triumph, Adonis, Princess, Crown, Pal, Queen Anne, Mastercase, Senator, Gem, Newport, Decanter, Mayfair, Ten-a-Case and many other models.

This Kit Will Bring \$250.00 to \$350.00 in Resales and Repairs

The List Price of This Kit is . . . **\$83.34**

You get a 40% discount . . . **33.34**

Your Cost is **\$50.00 net**

And at no extra charge you get:

1. The COMPLETE REPAIR MANUAL (one to a customer)
2. 60 compartment 6 1/2" x 11" plastic storage chest
3. 12 Window display streamers
4. S-800 Plastic counter display

NEW!

NEW!

NEW!

THE "TINY-KIT" 250 net

A small, compact, pocket-size Repair Kit, which contains an assortment of parts that list at \$4.45. Enough parts to repair up to 25 lighters. Best of all it costs you only \$2.50 net.

Kits Are Available for All Models of Ronson Lighters:
Standard Princess Whirlwind Adonis
And Many Others
(See Page 100 For Further Information)

INSTRUCTIONS FREE With Each Kit!

NOTE: Tiny-Kits Are Also Available For Evans, Thorens, A.S.R. etc. Please Specify Model Desired.

Send check in advance. Save Postage & C.O.D. Fees.

Parts to refill all kits are available from
LIGHTER PARTS, INC., 2 E. Stockton Ave., Pittsburgh 12, Pa.

RONSON LIGHTERS

There are three general sizes of parts which are used in Ronson lighters which might be classified as follows:

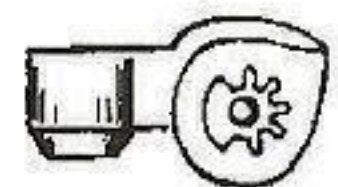





1. STANDARD MOVEMENT — Large
2. GEM MOVEMENT — Medium
3. PET MOVEMENT — Small

I. STANDARD NEW STYLE MOVEMENT

Listed below are the parts which go to make up the basic standard movement. There are variations which we will discuss later in the book:

Part No.	Description
RS-350.....	Std. N/S Snuffer
RS-700.....	Std. N/S Gear
RS-1	Std. N/S Clutch Wheel
RS-150.....	Std. N/S Clutch Spring
RS-300.....	Std. N/S Plunger
RS-100.....	Std. N/S Plunger Spring
RS-750.....	Std. N/S Male Screw
RS-600.....	Std. N/S Fulcrum
RS-250.....	Std. N/S Flint Screw
RS-101.....	Std. N/S Flint Spring
RS-810.....	Std. N/S Tip for Flint Spring
RS-200.....	Std. N/S Fuel Crew
RS-550.....	Std. N/S Washer
RS-811.....	Std. N/S Wick Holder
RS-812.....	Std. N/S Flint Tube
RS-813.....	Std. N/S Plunger Guide

These are also parts for the standard movement but are interchangeable as listed:

	RS-368 — Std. N/S Snuffer and gear unit. Sometimes used to replace RS-350 Snuffer and RS-700 Gears.
	RS-161 — Std. N/S Clutch Spring S./C. Can be used to replace RS-150 Clutch Spring.
	RS-701 — Std. N/S Half Gears. Can be used to replace RS-700 Gears.
	RS-809 — Std. N/S Cup for Snuffer. Fits in RS-350 Snuffer Shell
	RS-2 — Std. N/S Pawl Wheel. Used in older models instead of RS-1 Clutch Wheel. (Use only with pawl type spring).
	RS-151—Std. N/S Pawl Spring. Used with RS-2 or RS-3 Pawl wheels in older models. (Use only with Pawl type wheel).

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DIAGRAM 1

Component Parts of RS-350 snuffer group assembled.

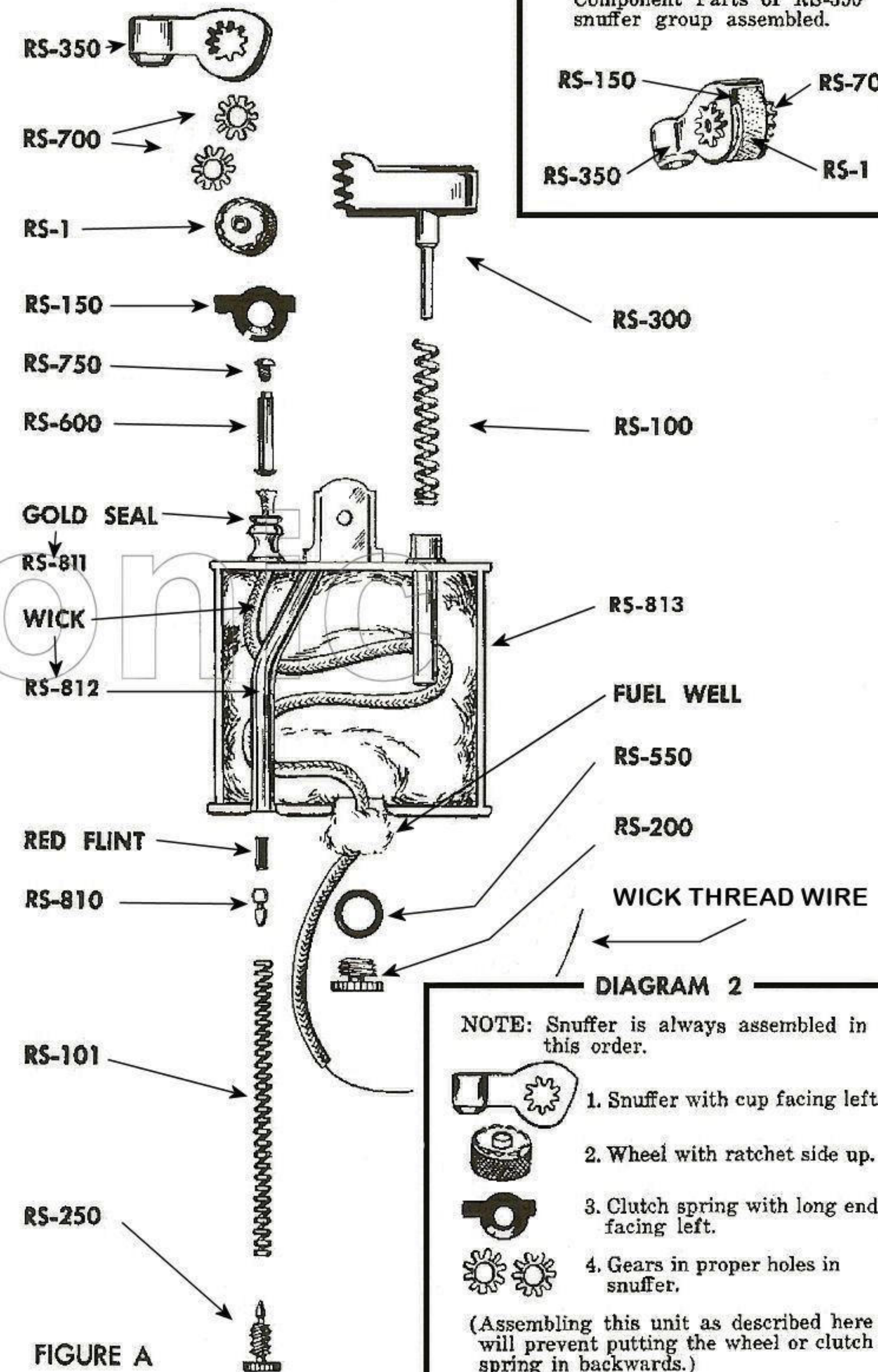
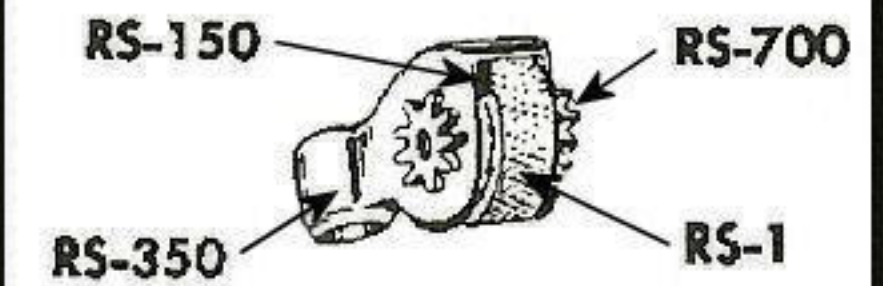






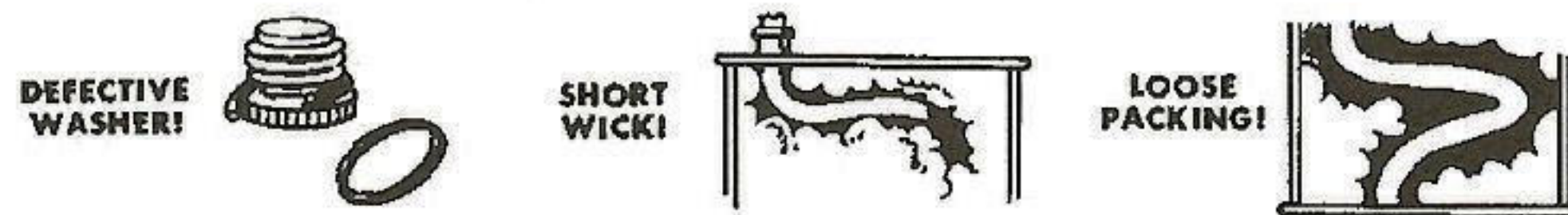
DIAGRAM 2

NOTE: Snuffer is always assembled in this order.

-  1. Snuffer with cup facing left.
-  2. Wheel with ratchet side up.
-  3. Clutch spring with long end facing left.
-  4. Gears in proper holes in snuffer.

(Assembling this unit as described here will prevent putting the wheel or clutch spring in backwards.)

Following, are listed some of the common complaints the repairman will encounter; and measures which will correct them.



1. Lighter won't hold fluid for a reasonable period of time. This period, of course, will vary with the fuel capacity of each lighter. This is caused by a defective washer on the fuel screw or by a short wick or loose packing. In the case of a short wick, regardless of how much fluid is in the lighter tank, it cannot be delivered to the chimney unless the wick reaches those parts of the packing containing the fluid. A graphic illustration of proper packing is shown on page 7. Rewick, repack, and check washer, replacing if necessary.



2. Lighter is filled by mistake with oil instead of proper grade of lighter fluid. This will burn temporarily, with excessive smoking, until the oil spreads over the working parts and prevents sparking action. Disassemble every part of lighter, throw away the old packing, and soak the lighter tank and parts in good lighter fluid bath. Wipe dry, making sure that all traces of oil are removed.



3. Customer complains the lighter won't spark even though he has two or more pieces of flint in the flint tube. Lack of flint is not the trouble here; it is either a defective wheel (worn excessively smooth) or lack of proper tension or strength in the flint spring. Check flint spring for strength and striking surface of wheel. Also, some people neglect to keep the wheel clean, allowing it to clog up with dirt, lint, tobacco dust, powder dust, powdered flint, etc. The remedy for this is an occasional brushing with a stiff brush, or light wire wheel if power tools are available.



4. Customer uses the lighter until fluid and flint are completely exhausted. This results in charred wick, and necessitates rewicking and repacking. When flint is gone, the wheel continues to turn against the flint spring tip RS-810 which, being brass, will damage or destroy the cutting surfaces of the wheel, and make replacement necessary.

5. Worn-out or broken parts, preventing proper functioning of lighter. These can be discovered by their appearance or by taking the lighter apart for examination.

When repairing a lighter for his customer, the repairman will find it greatly to his advantage to replace all the working parts, such as wheel, gears, clutch, spring, whenever possible. Worn parts may function temporarily but eventually they must be replaced and this is better done at the

time the lighter is brought in the first time. This will prevent a customer becoming dissatisfied thru making an extra trip, and losing the use of this lighter while it is being repaired again. Too, the sale of the additional parts means increased revenue to the repairman, without his spending additional time on the job.

To disassemble lighter with a standard movement, a few tools are necessary, small screwdrivers, tweezers, alignment tools, etc., are available. See page 15 of our price list for the list and parts numbers of these items, peculiar to the lighter repair trade.

Actual disassembly is done in this manner:

1. Always remove flint cap RS-250 and flint spring RS-101 and remove flint. These parts exert tension against the wheel and gear assembly, and the snuffer. This tension must be removed before further disassembly, otherwise there will be danger of flying parts, caused by too sudden a release of this pressure.

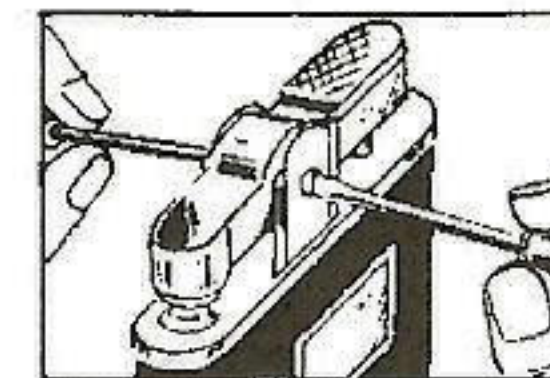


Figure 1.

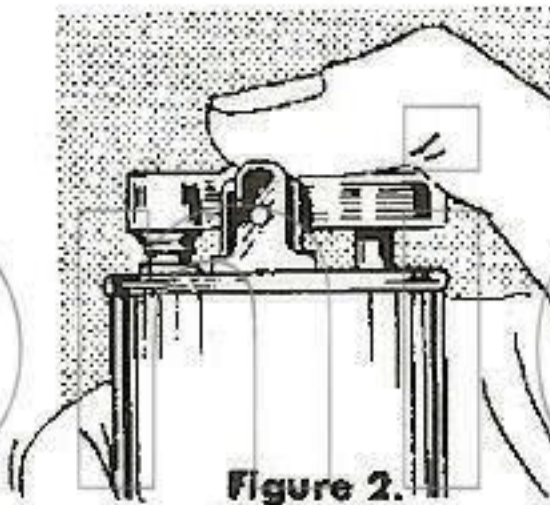


Figure 2.

2. Using two screwdrivers, if necessary, remove male screw RA-750 from fulcrum RS-600. (Fig. 1)

3. Maintaining a steady thumb pressure on the plunger RS-300 assembly (Fig. 1), push the fulcrum RS-600 through the lighter. The pressure is necessary because the plunger spring RS-100 is exerting pressure upwards against the plunger, even though it cannot be seen at this stage. (Fig. 2)

4. Remove plunger assembly RS-300 and plunger spring RS-100. On older models with flanged posts and half gears RS-701 it may be necessary to depress plunger all the way and move the snuffer RS-350 assembly forward (towards the lighter chimney) in order to free the plunger from the gears. Hold snuffer in this forward position and lift straight up on the plunger. This procedure is not necessary on later models with flat posts, which allow the complete top assembly to free itself as soon as the fulcrum is removed.

5. Remove snuffer assembly RS-350.

6. Take apart component pieces of snuffer, i.e., gears RS-700, wheel RS-1 and clutch spring RS-150. Note the position of clutch spring on the wheel, and bear in mind when re-assembling. The longer projection on top of the clutch spring RS-150 (Fig. 3), goes toward the front of the snuffer, towards the snuffer cup. See Diagrams 1 and 2, page 7.

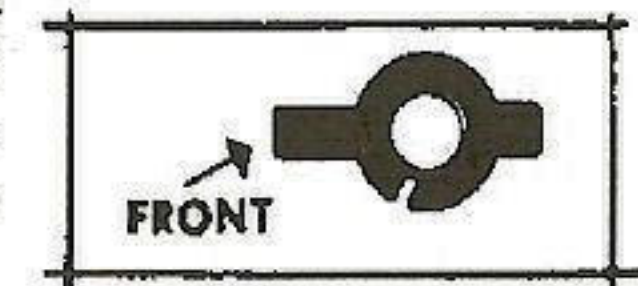


FIG. 3

7. At this point, always run a pipe cleaner, or a similar tool through the flint tube to make sure there is no flint jammed there, as it can only be removed while the top assembly is off the lighter body. Pipe cleaners for this purpose are listed on page 15 of our price list.

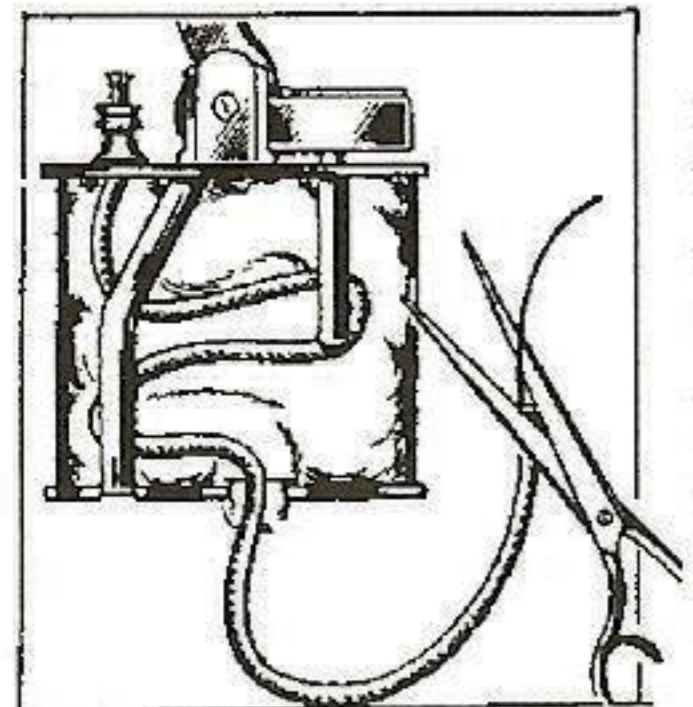
8. Remove fuel cap RS-200 and washer RS-550. Check washer at this point to make sure it is providing a good seal.

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9. Before doing anything else, now examine the lighter body itself very carefully, to make sure that it would not be impractical or too costly to customer to repair it. Things to look for at this stage are excessively worn fulcrum posts, loose flint tubes, bent or loose plunger guide tubes, loose seams on the tank itself. Stripped fuel cap wells and stripped flint cap openings can usually be corrected. Taps for these are available to you. See page 15 of our price list for parts numbers and prices of various types. When these things have been done the lighter is ready for rewicking and repacking.

We stress the advantages of using the Gold Seal wick. It has been proved conclusively that the Gold Seal, by reducing the size of the only opening on your fuel tank (wick chimney RS-811) when the lighter is in use, considerably reduces the process of evaporation. For this reason, it is of value to your customer, since he will not need to refill his lighter as often as he did formerly, before this improvement was developed. That is *his* advantage; for the repairman, it furnishes incontestable proof that he has repacked and rewicked the lighter, instead of simply pulling up the old wick and cutting it off. You will find customers expressing doubt that you have rewicked their lighters; in the case of a Gold Seal repair job, this type of person is easily convinced otherwise. The wire inserter attached to the wick makes installation a simple process, so that the *extra* advantages and *extra* quality of the job are *not* accompanied by any extra effort on your part, but are gained actually by your using less effort than you do ordinarily.

Assuming, then, that the repairman is using a Gold Seal wick, we will proceed with the repacking. First, it is necessary to remove all the *old* packing or batten from the fuel tank. This is done through the fuel well with the aid of probes or tweezers available for this purpose. When sure that the tank is empty, insert the wire end of your Gold Seal through the lighter chimney RS-811 into the lighter body or tank. Work it around the flint tube until the wire can be grasped with tweezers and pulled out through the fuel well. The advantage of a wire type inserter at this point will be apparent the first time it is used, especially if you have been accustomed to fumbling around inside the lighter for the old type wick (usually securely lodged in *back* of the flint tube, out of sight and out of reach). Pull the wick through until the Gold Seal is seated in the chimney. In those models where the base or shaft of the Gold Seal is loose, it can be securely seated by a slight crimping before it is fully inserted into the chimney. With the remainder of the wick protruding through the fuel well, cut off the wire inserter, which has accomplished its purpose and is no longer needed.

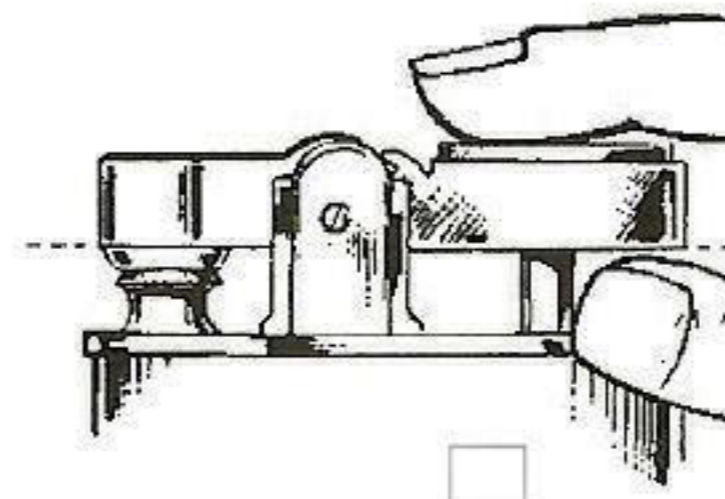


At left is an illustration of the proper method of repacking. This arrangement insures a steady flow of fuel (through capillary action) to the chimney, as long as any part of the packing in your tank contains fuel. This effect is more easily achieved by the use of special strip cotton available to you already cut to the desired width. Feed the strip cotton into the lighter tank and work the wick back and forth across the tank so that, by the time the lighter is firmly packed, the end of the wick is near the open fuel well. Then trim off

the excess wick on top of the chimney seal with your wick cutters AT-402 and your repacking is complete.

Assemble the lighter in the reverse order of its disassembly.

1. Replace the fuel cap RS-200 and washer RS-550 (after refilling with fluid).
2. Place clutch spring RS-150 on wheel RS-1, with long part of clutch towards lighter chimney, as previously shown. Place inside snuffer RS-350 and mount gears RS-700 in proper positions (unless snuffer RS-368 is used, with gears already attached). Hold snuffer assembly between lighter posts, with lighter body lying flat so the wheel and clutch will not slip out of position. Place plunger spring RS-100 in guide tube, and insert plunger RS-300. Compress plunger and align with snuffer, so that the snuffer in a closed position on the wick chimney will form a straight line with the plunger when



the parts are lined up for fulcrum. If a straight line is not achieved, it means that the plunger is either one gear too high or one gear too low on the snuffer. This will result in failure of the snuffer to open to the correct 90 degree angle when in use, or else it will over-travel, and subsequent binding on the plunger. A glance will tell

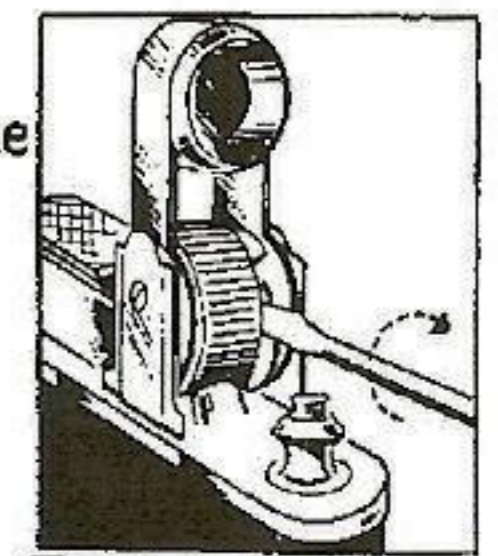
which of these is true, and the gears of the snuffer and teeth of the plunger can be removed to the proper position.

3. Insert fulcrum RS-600 and tighten with male screw RS-750.
4. Insert a new piece of flint in tube, and replace flint spring RS-101 and flint cap RS-250. Do not tighten flint cap completely, just turn enough to engage on the first couple threads.
5. Next, work snuffer by hand while depressing plunger several times until rough edges are worn off the new flint, then go back and complete tightening of the flint cap. This will prevent any undue strain on parts, and should in fact, be done every time a new flint is put into a lighter.

6. Carefully check the operation of the lighter at this time, to insure its being perfectly repaired. Some things to expect in an old lighter (even some new ones) are these:

A. Snuffer opens, but fails to close properly—May be due to posts bent from lighter being dropped, causing binding on snuffer or plunger. Also may be due to weak plunger spring RS-100. Or clutch spring may need adjustment — the RS-15Q can be adjusted without taking the lighter apart, simply by inserting a small screw-driver and reducing the tension of the turning

edge against the ratchet on the side of the wheel.



B. Snuffer may lift, but wheel fails to turn—Reverse procedure immediately above, for tight clutch, and adjust so clutch has *more* tension against wheel.

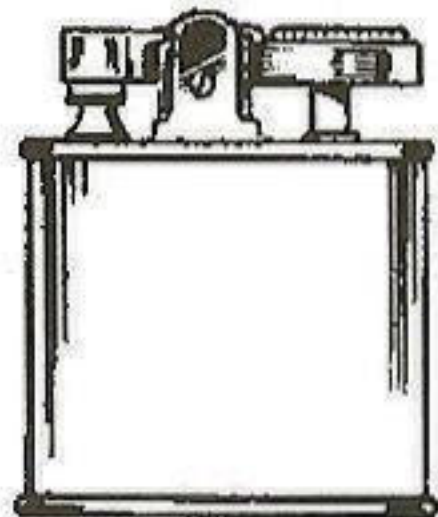
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The parts pictured and described on page 6 are the basic parts which make up the standard movement.

With slight modification as shown below, they will work in the following listed models.

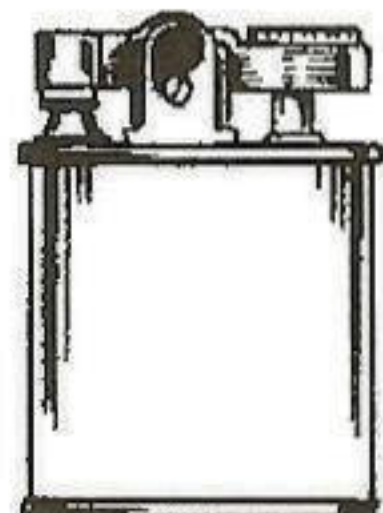
Please Note: The same order of disassembling and reassembling applies to all fully automatic plunger or segment type Ronson Lighters.

I. STANDARD NEW STYLE



Uses all standard parts as listed on page 6. Please Note: This lighter can be recognized only by its actual shape. It is manufactured in a variety of finishes, colors, and decorated with many designs. This holds true also with Princess, Whirlwind, Mastercase and many other models.

II. PRINCESS NEW STYLE



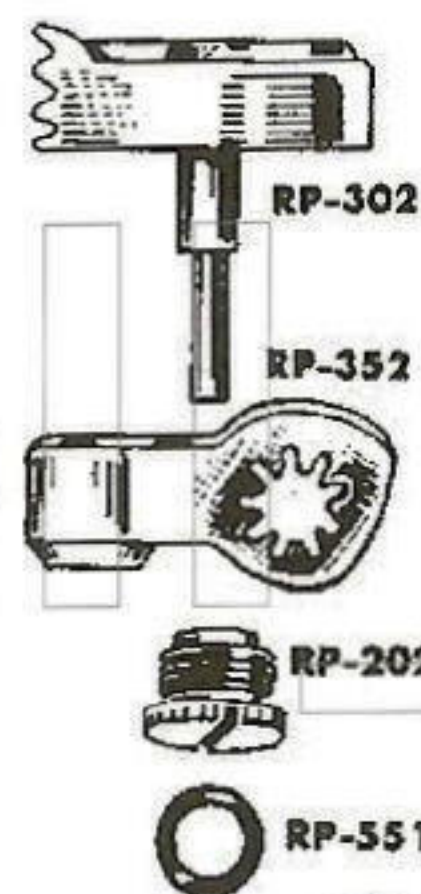
Uses all standard parts as listed on page 6 with the following exceptions:

Instead of RS-300 Std. N/S Plunger it uses RP-302 Prin. N/S Plunger.

Instead of RS-350 Std. N/S Snuffer it uses RP-352 Prin. N/S Snuffer.

Instead of RS-200 Std. N/S Fuel Screw it uses RP-202 Fuel Screw.

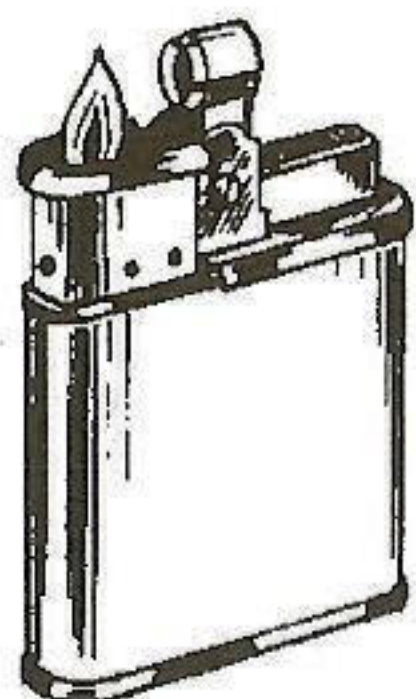
Instead of RS-550 Std. N/S Washer it uses RP-551 Prin. N/S Washer.



Instead of RS-101 Std. N/S Flint Spring it uses RP-104 Prin. N/S Flint Spring.



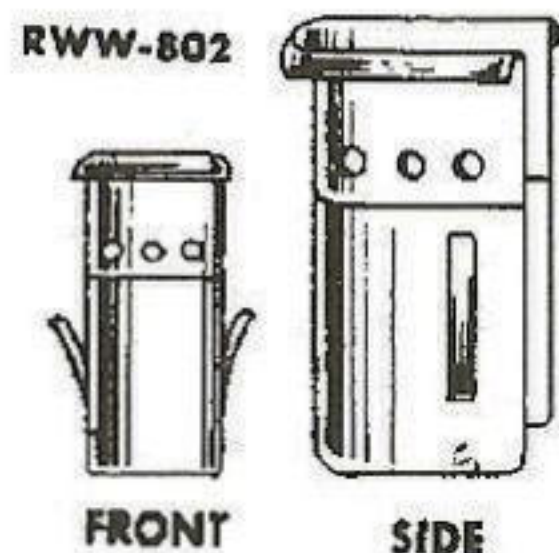
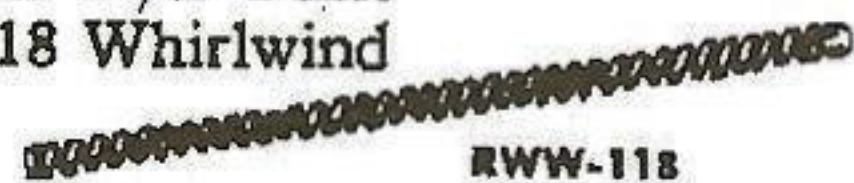
III. WHIRLWIND NEW STYLE



Uses all standard parts as listed on page 6 with the following exceptions:

Instead of RS-101 Std. N/S Flint Spring it uses RWW-118 Whirlwind N/S Flint spring.

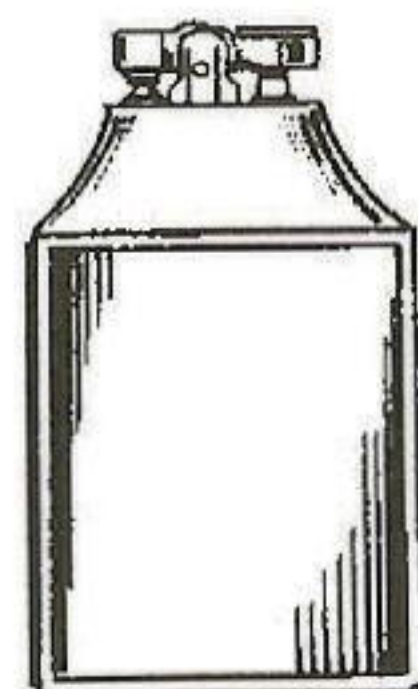
It also has an additional part not listed on page 6—RWW-802 Whirlwind N/S Winguard.



Note: The Windguard has two flat pieces that are bent outward, as shown in figure A at right, before inserting windguard in lighter.

To remove, both of these springs must be pressed in, flush with sides of windguard, while it is being slid upward.

IV. MASTERCASE NEW STYLE



Uses all standard parts listed on page 6 with the following exceptions:

Instead of RS-300 Std. N/S Plunger it uses RP-302 Prin. N/S Plunger.

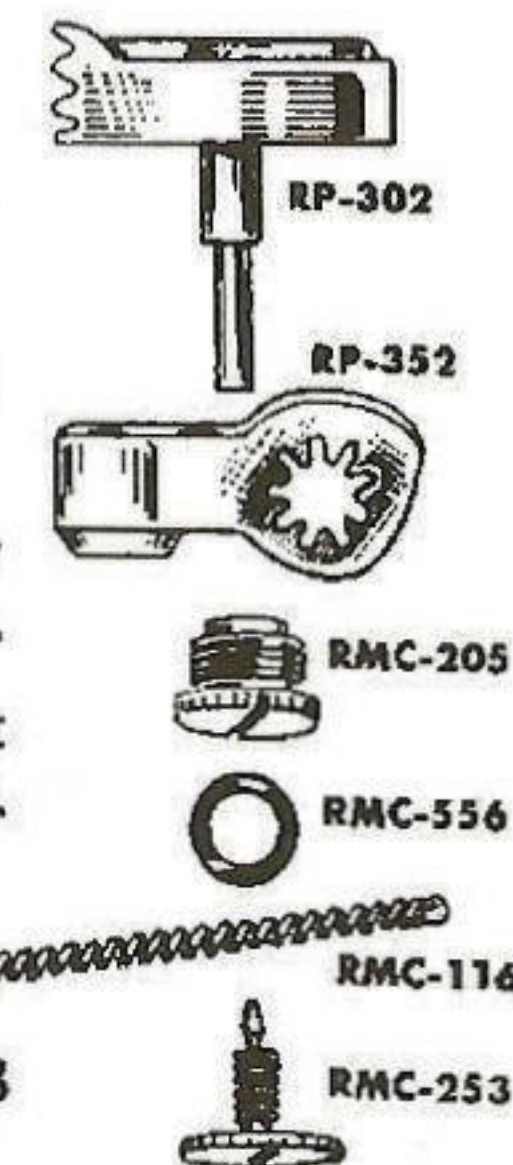
Instead of RS-350 Std. N/S Snuffer it uses RP-352 Prin. N/S Snuffer.

Instead of RS-200 Std. N/S Fuel Screw it uses RMC-205 M/Case Fuel Screw.

Instead of RS-550 Std. N/S Washer it uses RMC-556 M/Case N/S Washers.

Instead of RS-101 Std. N/S Flint Spring it uses RMC-116 M/Case N/S Flint Spring.

Instead of RS-250 Std. N/S Flint Screw it uses RMC-253 M/Case N/S Flint Screw.



Since this is a combination case and lighter it also has component cigarette case parts as follows:

RMC-119 M/Case N/S Hinge spring. RMC-800 M/Case N/S Holdown bars.
RMC-900 M/Case N/S Hinge pin. RMC-650 M/Case N/S Case catch.

RMC-960 M/Case N/S Catch rivets.

V. DECANTER NEW STYLE



Uses all standard movement parts as listed on page 6 with following exceptions:

Note: This is a segment-type lighter. It uses a part called a segment for a thumb motion instead of a plunger.

A segment, as we refer to it here, differs from a plunger in that instead of operation on a slide principle it is a long rod with teeth at one end and the other end hinges on a fulcrum pin (called a segment rivet).

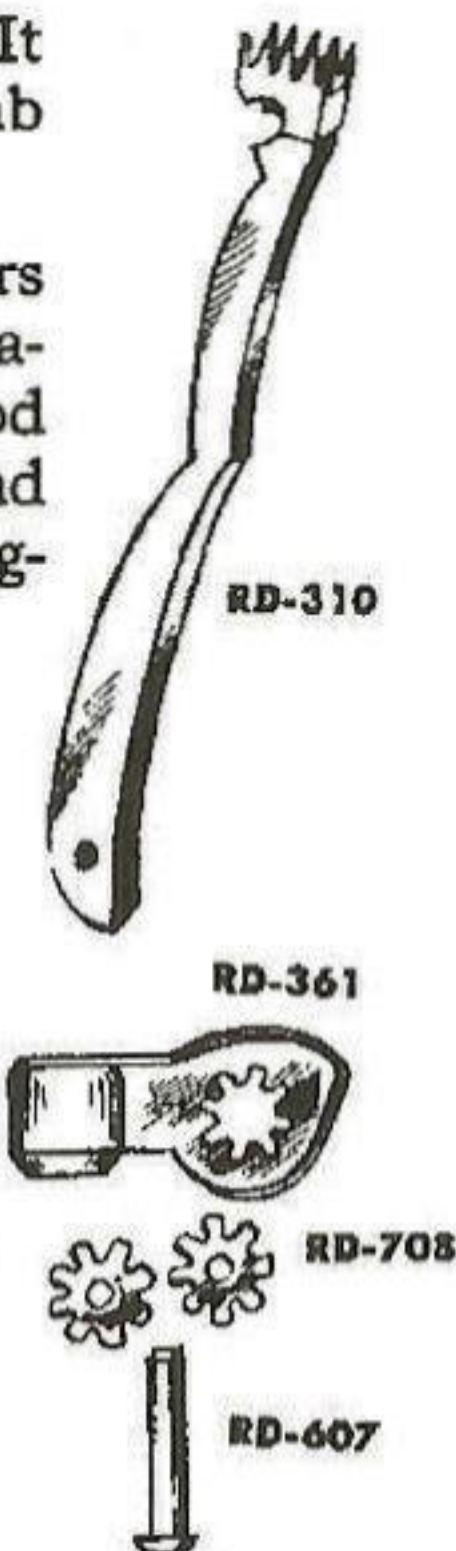
This part will be further discussed in the ADONIS model.

Instead of RS-300 Std. N/S Plunger it uses RD-310 Decanter N/S Segment S/P.

Instead of RS-350 Std. N/S Snuffer it uses RD-361 Decanter N/S Snuffer S/P.

Instead of RS-700 Std. N/S Full Gears it uses RD-708 Decanter N/S Gears.

Instead of RS-600 Std. N/S Fulcrum it uses RD-607 Decanter N/S Fulcrums S/P.



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Instead of RS-200 Std. N/S Fuel Screw it uses RD-210 Decanter N/S Fuel Screws S/P.

Instead of RS-250 Std. N/S Flint Screw it uses RD-255 Decanter N/S Flint Screws S/P.

Instead of RS-101 Std. N/S Flint Springs it uses RD-114 Decanter N/S Flint Springs.

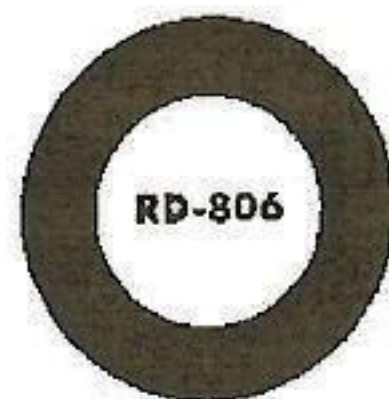
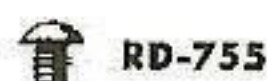
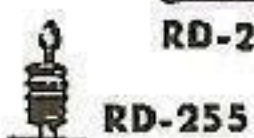
Instead of RS-550 Std. N/S Washers it uses RD-561 Decanter N/S Washers.

Instead of RS-750 Std. N/S Male Screws it uses RD-755 Decanter N/S Male Screws S/P.

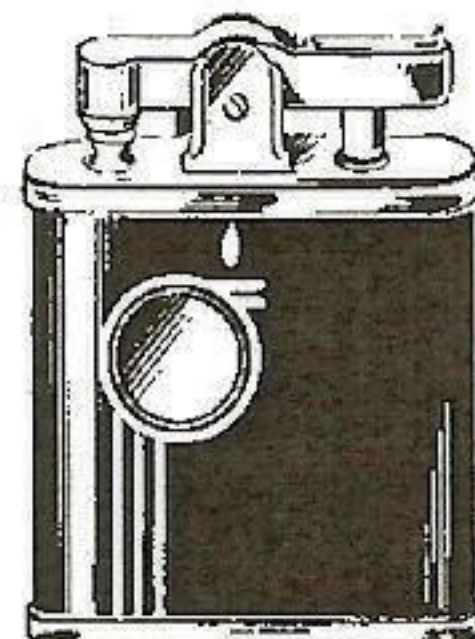
This lighter also uses:

RD-957 Decanter N/S Segment Rivets.

RD-806 Decanter N/S Felt Bottom Pad.



VI VANGUARD NEW STYLE VIKING NEW STYLE MAXIMUS NEW STYLE

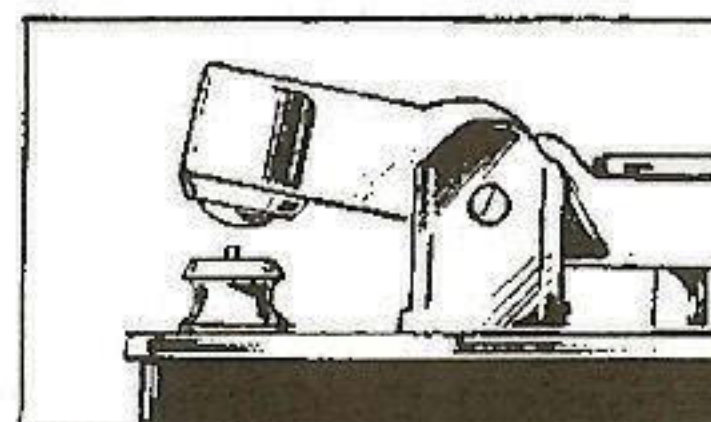


These new models, instead of being conventional wick and fluid lighters, are equipped with storage tanks of butane gas.

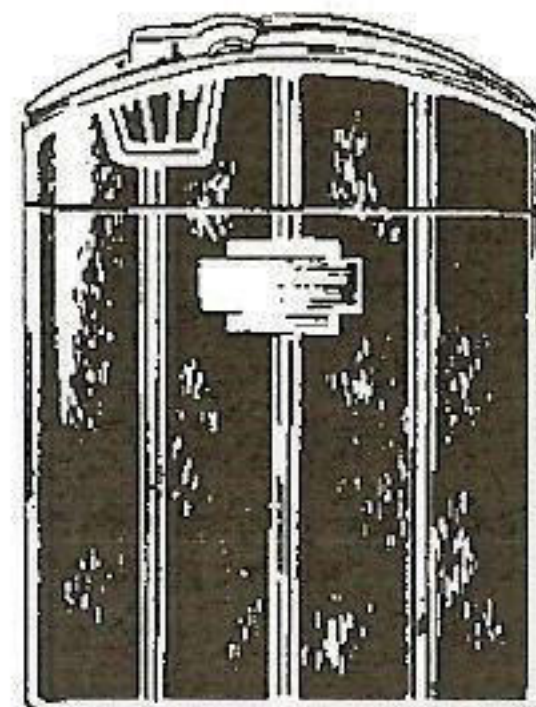
They have no fuel screw, but use an RS-250 Standard N/S Flint Screw and RS-101 Standard N/S Flint Spring.

The flint screw is located in the center of the bottom plate, instead of at the front, and when it is removed the entire outer shell of the lighter can be slipped off. The butane container can then be removed from the top unit which is the same as the Standard N/S pictured in Diagram 1, Page 7.

This top unit uses the same Standard movement parts, except that instead of RS-350 Std. N/S Snuffer, it uses a special modification of RS-367 Standard N/S Snuffer with a ball bearing seated in the cup to provide a seal for the butane valve which protrudes through the wick chimney instead of a wick.



Note: Do not tamper with the valve arrangement on the butane container. This is a factory job.



VII TWENTY CASE NEW STYLE

Uses all standard movement parts as listed on Page 6 with the following exceptions:

Instead of RS-300 Std. N/S Plunger it uses RTC-311 20/Case N/S Ch. Segment

Instead of RS-200 Std. N/S Fuel screw it uses RTC-206 20/Case N/S Fuel screw

Instead of RS-550 Std. N/S Washer it uses RTC-557 20/Case N/S Washer



RTC-311



RTC-206



RTC-557

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Instead of RS-101 Std. N/S Flint spring, it uses RTC-109 20/Case N/S Flint spring

Instead of RS-600 Std. N/S Fulcrums it uses RTC-615 20/Case N/S Fulcrums

It also uses:
RTC-953 20/Case N/S Segment rivet

NOTE: Since this is a combination case and lighter it also has component cigarette case parts as follows:

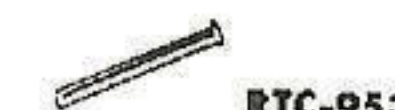
RTC-120 20/Case N/S Hinge spring

RTC-901 20/Case N/S Hinge pin

RTC-901 20/Case N/S Holdown bar

RTC-651 20/Case N/S Case catch

RTC-956 20/Case N/S Catch rivet



VIII NEWPORT NEW STYLE



Uses all standard movement parts as listed on Page 6 with the following exceptions:

Instead of RS-300 Std. N/S Plunger it uses RN-321 Newport N/S Plunger S/P

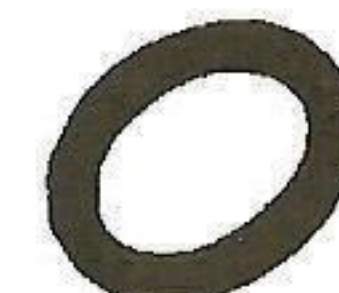
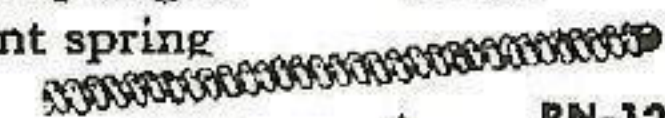
Instead of RS-350 Std. N/S Snuffer it uses RN-367 Newport N/S Snuffer S/P

Instead of RS-101 Std. N/S Flint spring it uses RN-127 Newport N/S Flint spring

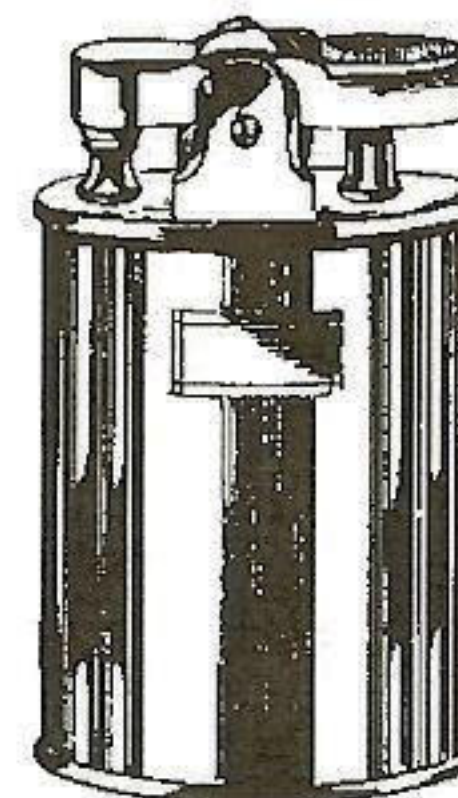
Instead of RS-250 Std. N/S Flint Screw it uses RN-264 Newport N/S Flint Screws S/P

Instead of RS-200 Std. N/S Fuel Screw it uses RN-220 Newport N/S Fuel Screw S/P

It also uses:
RN-807 Newport N/S Felt Bottom Pad



IX BANKER NEW STYLE



Uses all standard movement parts as listed on Page 6 with the following exceptions:

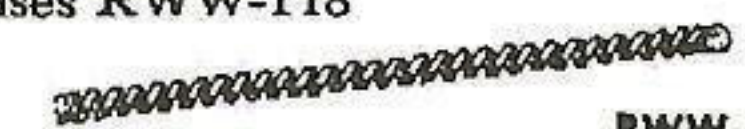
Instead of RS-300 Std. N/S Plunger it uses RP-302 Princess New Style Plunger

Instead of RS-350 Std. N/S Snuffer it uses RP-352 Princess New Style Snuffer

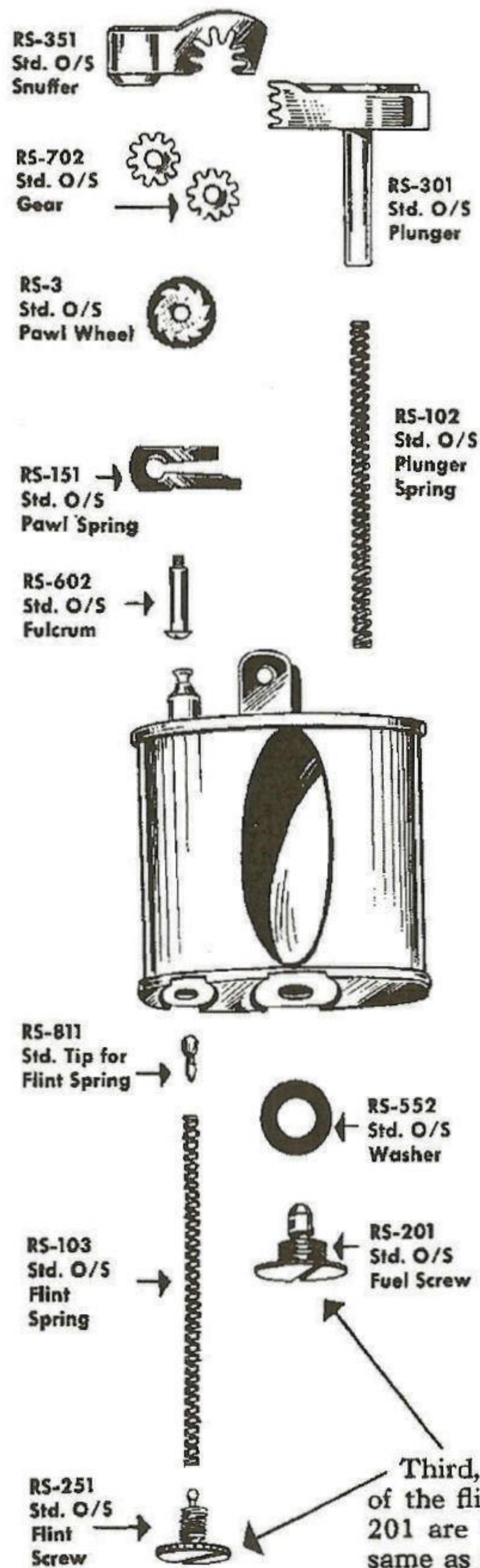
Instead of RS-200 Std. N/S Fuel Screw it uses RP-202 Princess New Style Fuel Screw

Instead of RS-550 Std. N/S Washer it uses RP-551 Princess New Style Washer

Instead of RS-101 Std. N/S Flint Spring it uses RWW-118 Whirlwind New Style Flint Spring



RWW-118



At the left is an illustration of a very old model sold in the late 1920's by Ronson.

This lighter was also made in a Princess size. Parts have not been manufactured for these models for quite a long time and they are very difficult to obtain.

There are a few hints we can give you which may help you to effect a repair even when the parts that are broken are not available.

First note the plunger:

The tube, which slides up and down in the plunger guide, is much larger in diameter than the new style plunger. Note, too, that the spring fits inside of this tube.

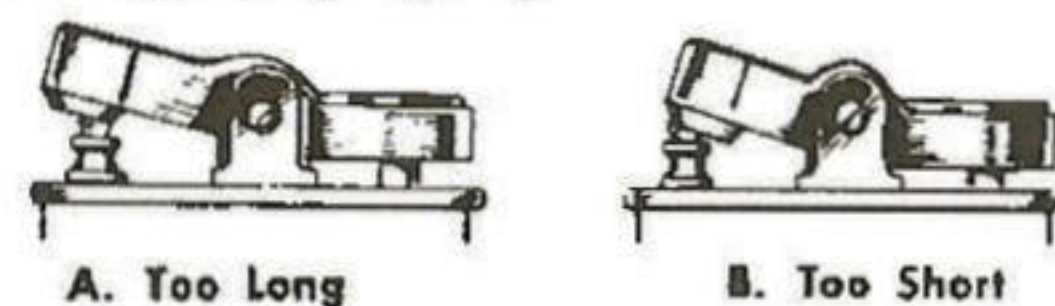
Second, the fulcrum shaft is made all as one piece, with threads at one end. It is also smaller in diameter than the new style.

Its diameter and the corresponding holes in the gears, file wheel, and lighter posts are about .096.

The newer models use a .111 fulcrum and holes to correspond.

The snuffer sometimes has a pawl spring riveted in it. In this case the snuffer should be replaced.

At this point we would like to show you how to make a snuffer that is too short or too long as pictured below, fit the lighter properly.



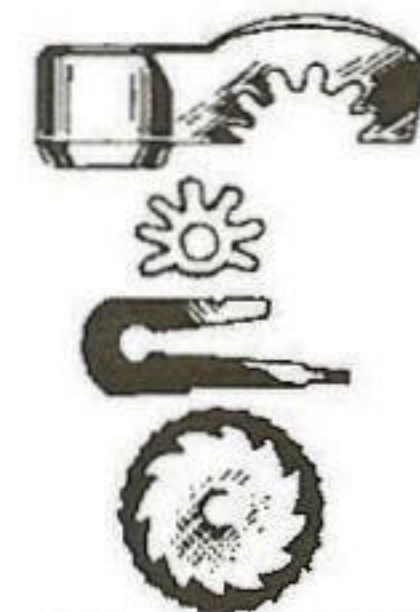
By using a dentist's burling tool (right) in a power chuck (drill, work arbor, etc.) you can burl out the snuffer cup either at the front or back to make it seat properly on the wick holder.

Third, we would like to show you that the head of the flint screw RS-251 and the fuel screw RS-201 are very large, but the thread on both is the same as new style.

We recommend that you do not attempt to repair these models at all, but if you are forced to, perhaps you will find the information we have given you helpful.

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There is another model which was brought out in the early 1930's, which uses all standard new style parts, but which is a pawl type lighter using all standard parts except the following:



RS-351 Std. O/S Snuffer instead of RS-350 Std. N/S Snuffer.

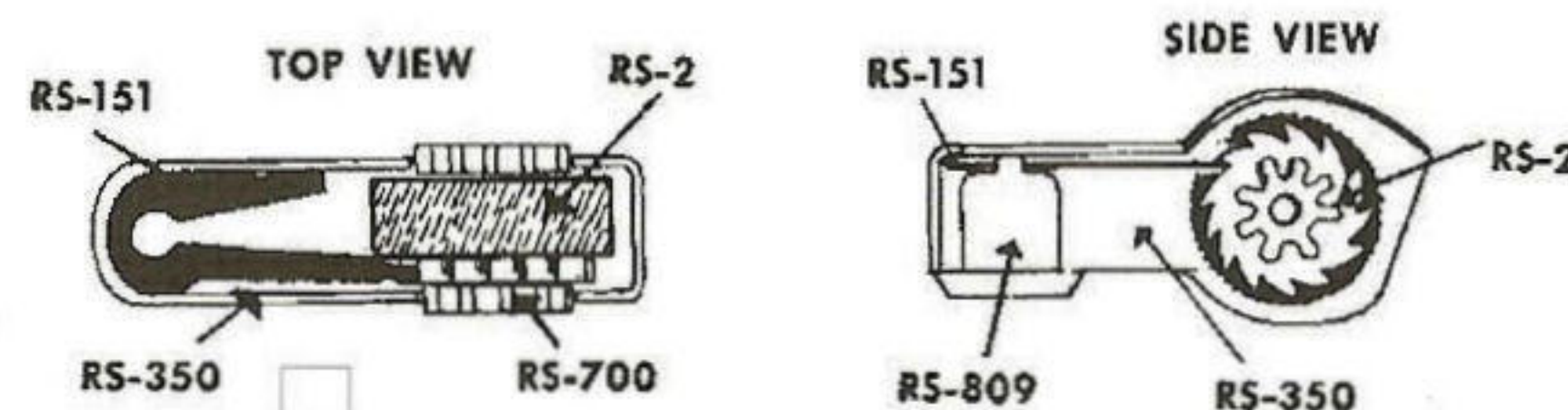
RS-701 Std. N/S Half gears instead of RS-700 Std. N/S Full gears.

RS-151 Std. N/S Pawl spring instead of RS-150 Std. N/S Clutch spring.

RS-2 Std. N/S Pawl wheel instead of RS-1 Std. N/S Clutch wheel.

The RS-151 Std. N/S Pawl spring is fitted into the snuffer as pictured below:

The RS-151 Std. N/S Pawl Spring is used with RS-2 Std. N/S Pawl Wheel in an RS-350 Std. N/S Snuffer. It slides up under the top of the snuffer and is held in place by RS-809 Std. cup for snuffer.

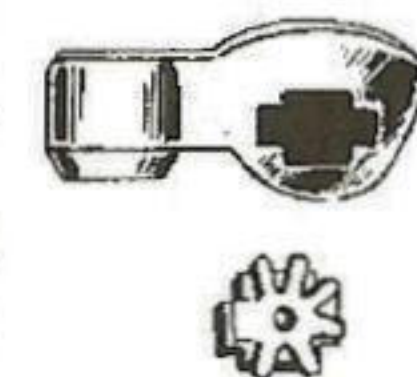


Note: Wherever possible it is best to change lighter over to clutch type.

Note: This Pawl spring and Pawl wheel can be used in the RS-350 Std. N/S Snuffer when replacing the entire snuffer.

We would also like to point out that some of these older model standard movement lighters use a snuffer with a rectangular gear hole and a corresponding rectangular shaped gear unit. (right)

This type of snuffer and its gears are obsolete and should be replaced with RS-350 Std. N/S Snuffer and RS-700 Std. N/S Full gears.



HELPFUL HINTS ON COMMON PROBLEMS

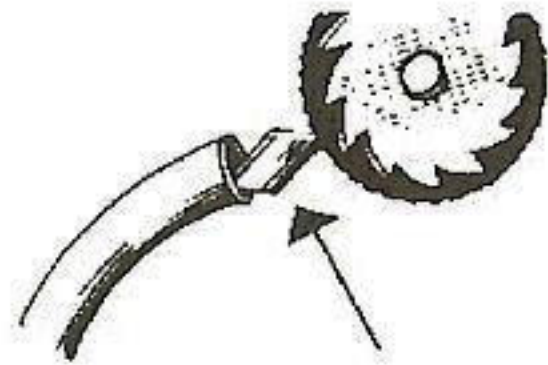
PROBLEM	SOLUTION
Broken Case (Hole in Fuel Tank)	This could be repaired but would involve soldering and the time needed makes the cost of the job excessive.
Broken Flint Tube	This can be repaired only by replacing flint tube. This is also a soldering job.

When a lighter is brought to you for repair, it pays you to examine it carefully for defects which cannot be repaired profitably.

PROBLEM

SOLUTION

Flint Tube too far away from wheel



B. Flint can turn in the wide gap between the end of the flint tube and wheel. This forms a wedge, which makes lighter hard to work, and strains all the other parts.

This is a common fault with Ronson pocket lighters.

As you know from Page 7, the flint tube runs through the fuel chamber. It is held in position by a soft lead solder weld, at the bottom and the top of the tube. (This is also a common place for a leak to develop).

After a lighter has been used for a period of time the constant pressure of the flint spring causes the tube to move downward lower and lower, causing the situation pictured at left.

This can be corrected by heating the solder and pushing the tube back up to its original position.

Stripped threads on Female Hole in lighter
(Fuel hole and Flint hole)



This can usually be corrected by running the proper tap through the hole, rethreading it. Use special taps listed on Page 15 of our Price List.

WARNING

If the threads are completely gone, the hole cannot be tapped with a slightly larger diameter tap.

The walls of the fuel well are very thin and will break through. Be careful which tap you select; i.e. most of the fuel and flint screw threads are bastard threads and taps for them cannot be easily secured.

Holes in the post of the lighter are worn much larger than the correct .111 diameter

Use RS-601 fulcrum complete, as it is a little larger in diameter.

If the holes are too badly worn do not attempt to repair the lighter.

Now! Get Parts for Other Lighters

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INSTRUCTIONS FREE WITH EVERY KIT, SHOW YOU HOW TO FIX THEM

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2. With the Purchase of \$25.00 net in repair parts.

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THORENS

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\$100⁰⁰ net

With this kit you get plastic displays, window streamers, metal cabinets FREE and best of all you get the **COMPLETE REPAIR MANUAL** with 150 pages of illustrations, descriptions, etc., on how to repair all popular lighters, FREE of charge (one to a customer).

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Don't forget the "TINY-KITS!"

There's a **TINY-KIT** available for every model of Ronson, Evans, Thorens and A.S.R. lighters. **TINY-KITS** are pocket size repair kits that will supply enough parts to fix as many as 25 lighters.

Yet a *Tiny-Kit* for any model costs you only **250⁰⁰ net**

(See Page 100 for further information!)

Parts to restock your kit are available from
LIGHTER PARTS, INC., 2 E. Stockton Ave., Pittsburgh 12, Pa.

Send check in advance. Save Postage & C.O.D. Fees.






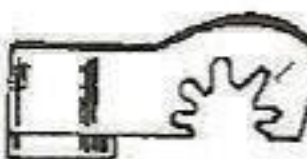
2. GEM NEW STYLE MOVEMENT

This is made up of medium sized parts and is most commonly used in popular lighters such as Adonis (pictured at right).

The assembling and disassembling of these lighters are the same as used for the Standard movement.

Part No.	Description
RA-355	Adonis N/S Flat snuffer
RA-704	Adonis N/S Full gears
RA-4	Adonis N/S Clutch wheel
RA-154	Adonis N/S Clutch spring
RA-304	Adonis N/S Segment
RA-950	Adonis N/S Segment rivet
RA-751	Adonis N/S Male screw
RA-605	Adonis N/S Fulcrum short
RS-250	Std. N/S Flint screw
RA-107	Adonis N/S Flint spring
RS-810	Std. N/S Tip for flint spring
RA-211	Adonis N/S Fuel screw
RA-554	Adonis N/S Washers
RA-814	Adonis N/S Wick holder

Listed below are other parts used in Gem movement which are interchangeable as listed:

	RA-9	Adonis N/S 9 ratchet clutch wheel. Sometimes used to replace RA-4 clutch wheel.
	RA-153	Adonis N/S Clutch spring for curved snuffer. Used to replace RA-154 when curved snuffer RA-354 is used instead of RA-355.
	RA-5	Adonis N/S pawl wheel used in older models in place of RA-4 clutch wheel.
	RA-155	Adonis N/S pawl springs used in older models with RA-5 in place of RA-154.
	RA-612	Adonis N/S Fulcrum long. Sometimes used in place of RA-605.
	RA-354	Adonis N/S Curved snuffer. Sometimes used in place of RA-355.

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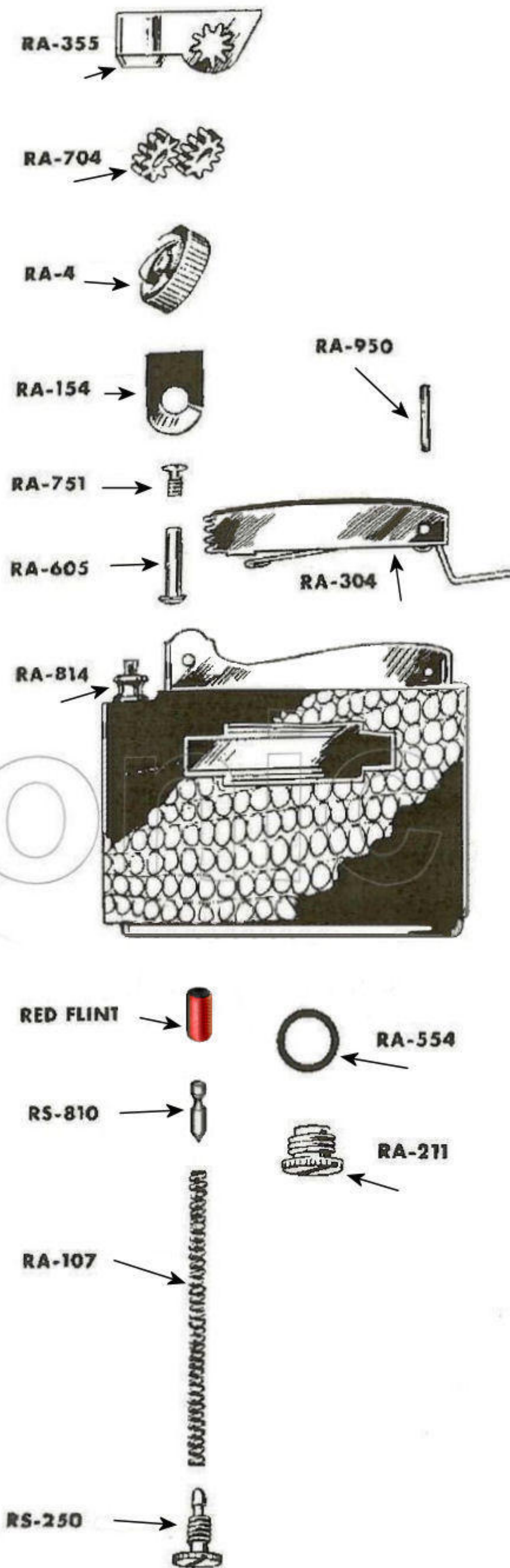


DIAGRAM 1

Component Parts of RA-355 Snuffer Group Assembled.

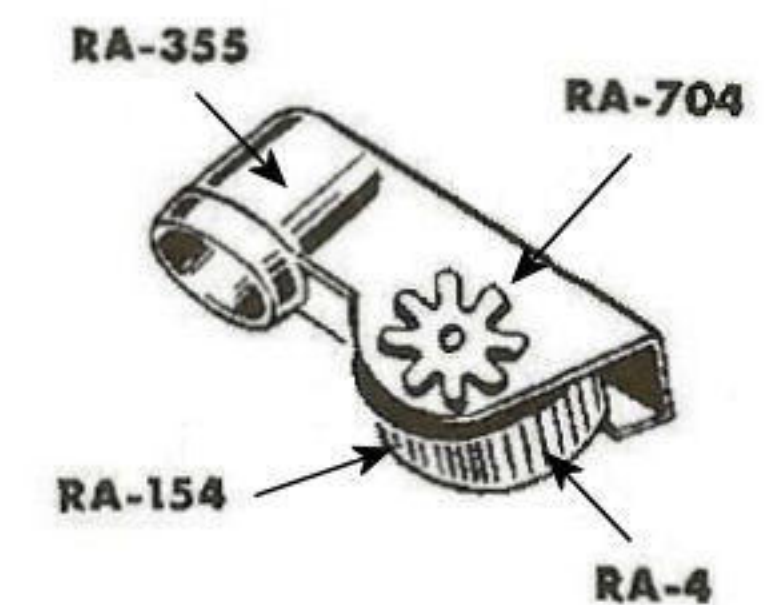
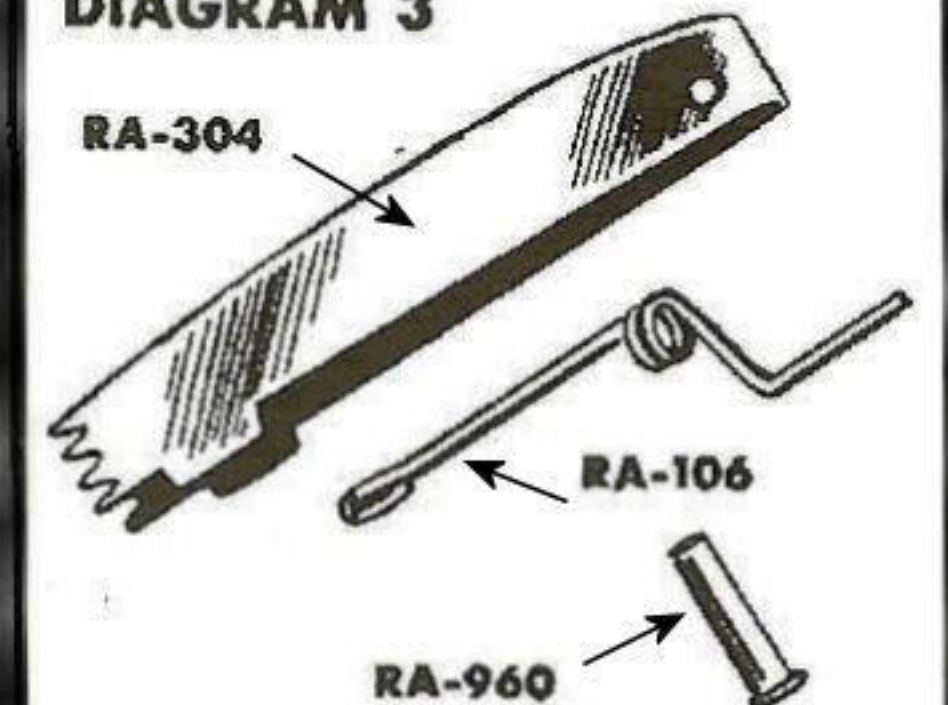


DIAGRAM 2

Note: Snuffer is always assembled in this order.



DIAGRAM 3



This is a segment for Adonis. It is usually sold as a unit complete with spring, but component parts can be purchased separately.

The Gem new style movement is made up of medium size parts.

Most of these parts are commonly referred to as Adonis or Crown lighter parts since these are the two most popular models using Gem size parts.

In order to make it easier for repairmen to understand which parts to use we have called all of the Gem parts Adonis parts, and we are using an Adonis lighter to illustrate how these parts work. We would like to point out that the Adonis lighter, Crown lighter, Queen Ann lighter, Waldorf lighter and several other models that use Gem size parts are segment type lighters. That is, they use a long bar-like thumb lever instead of a plunger.

This part, instead of operating on a piston principle as the plunger does, is used as a hinged bar instead. It is fastened into the lighter by a rivet which goes through the lighter case and also through one end of the segment. There's a spring placed inside the segment to cause it to spring back up once it has been pushed downward. At right is an illustration of a segment being fitted into place.

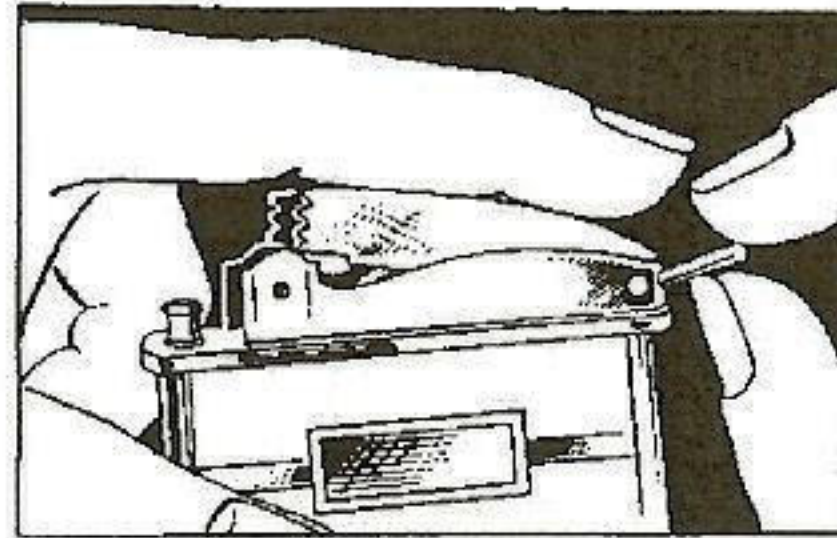


Figure A.

The method of the assembly follows the same pattern as used to take a standard lighter apart.

1. As with all lighters, first remove flint cap RS-250, flint spring RA-107 and remove flint.
2. Next, remove male screw-RA-751 from fulcrum-RA-605.
3. Placing the thumb all the way across the top of the lighter to prevent the plunger spring from throwing all the parts off the top, you must then remove fulcrum-RA-605.
4. Remove snuffer assembly-RA-355.
5. Take apart the component pieces of the snuffer unit as illustrated in diagram 1, Page 21.
6. At this point we suggest that you use a pipe cleaner or a small brush to clean dust particles from the top of the lighter.
7. It is not always necessary to remove the segment. You should examine the teeth to see that none of them are broken or bent and check the action of the segment by moving it up and down a couple of times to see that it works freely.
8. Next remove the fuel screw-RA-211 and washer-RA-554. Examine the washer to make sure it is not worn and that it is providing a good seal.
9. At this point the body of the lighter should be carefully examined to make sure that it has no defects and is not worn to the point where repairing it would be inadvisable.
10. You are now ready to remove all of the old cotton and wick. This is done as described in point 9 of the standard movement. After the lighter has been repacked and you have made sure that the lighter body is not in any way damaged, you can begin to reassemble in the reverse order of its disassembly.
11. First, replace fuel screw-RS-211 and washer-RA-554.
12. Reassemble component parts of snuffer unit as described in diagram 2, Page 21.

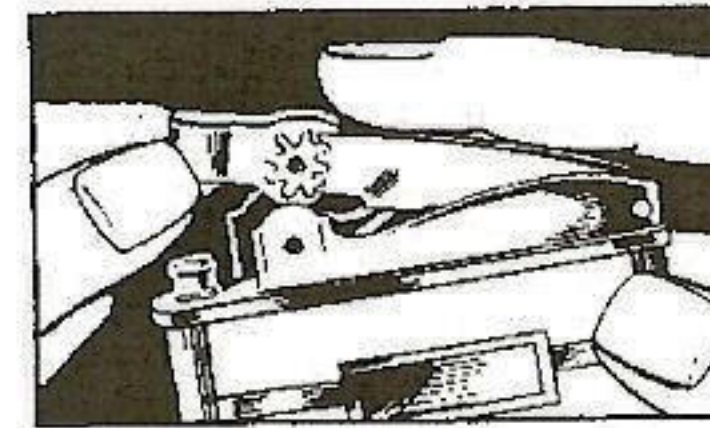
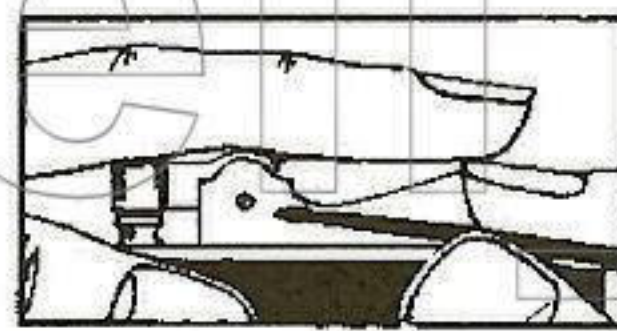


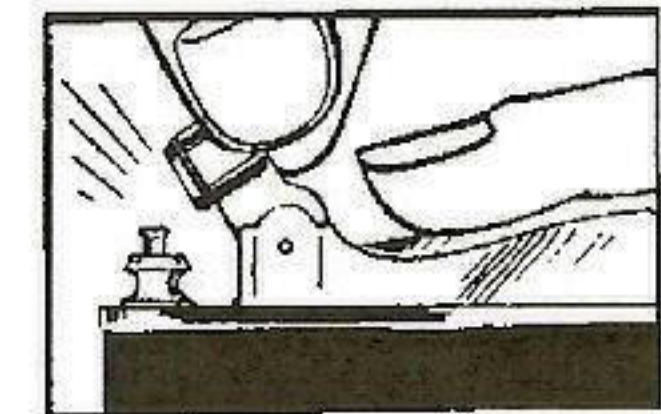
Figure B.

13. Place the snuffer unit against the front end of the segment-RA-304 so that the teeth mesh. (Fig. B) The top of the snuffer and the top of the segment should be in a straight line. Then, with a slow easy pressure downward on the segment, you can set the entire top unit in place, until the holes in the lighter posts line up with the holes in the snuffer unit.

14. Then you can replace the RA-605 fulcrum and RA-751 male screw.
15. Insert a new piece of flint and replace flint spring RA-107 and flint screw-RS-250.

Note: Do not tighten the flint screw completely, just enough to engage the first two or three threads.

16. Next, work the snuffer by hand while depressing the segment several times until the rough edges of the flint are worn smooth. This is done to prevent any unnecessary strain of the parts and should be done each time a new flint is put into a lighter.



17. Tighten the flint screw the rest of the way and carefully check the operation of the lighter.

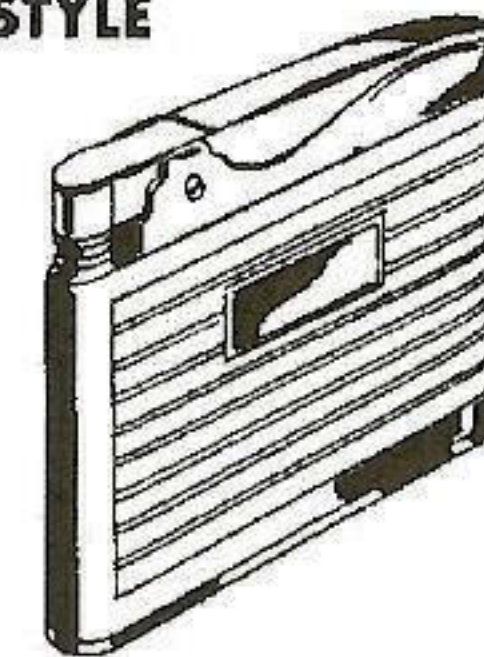
Sonic

THE PARTS PICTURED AND DESCRIBED ON PAGE 21 ARE THE BASIC PARTS WHICH MAKE UP THE GEM MOVEMENT

With slight modification as shown below they will work in the following listed models:

PLEASE NOTE: The same order of disassembly and reassembly applies to all fully automatic plunger or segment type Ronson lighters.

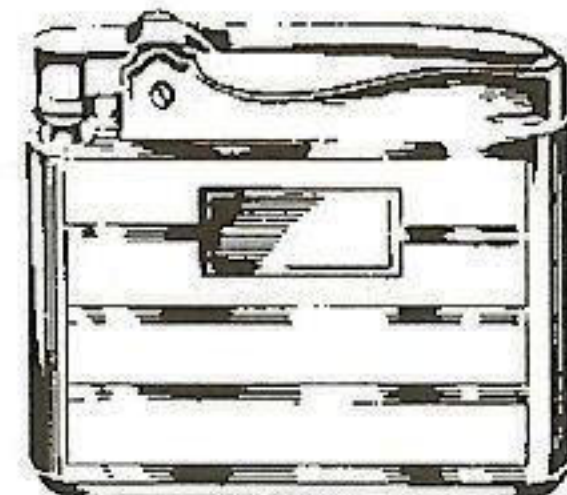
ADONIS NEW STYLE



Uses all Adonis parts as listed on page 21. Note: This lighter and all other lighters listed on these pages can be recognized only by their actual shape. Each model is manufactured in a variety of finishes, colors and is decorated with many different designs.

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II ADONIS OLD STYLE (STERLING SILVER)

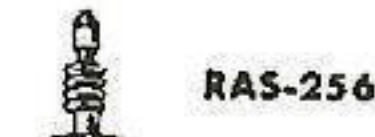


Uses all Adonis parts as listed on page 21 with the following exceptions:

Instead of RA-211 Adonis N/S Fuel screws it uses RAS-212 Adonis O/S Fuel screw S/P



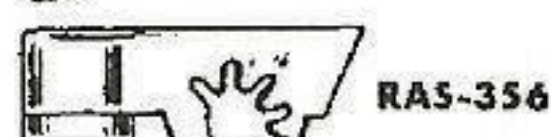
Instead of RS-250 Adonis N/S Flint screw it uses RAS-256 Adonis O/S Flint screw S/P



Instead of RA-304 Adonis N/S Segment it uses RAS-305 Adonis O/S Segment S/S



Instead of RA-355 Adonis N/S Snuffer it uses RAS-356 Adonis O/S Snuffer S/P



Instead of RA-704 Adonis N/S Gears it uses RAS-705 Adonis O/S Gears (half round)



Instead of RA-605 Adonis N/S Fulcrum short it uses RAS-606 Adonis O/S Fulcrum S/P short



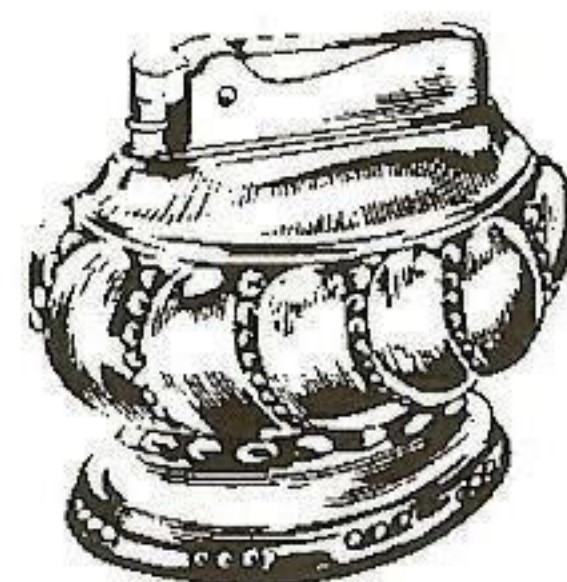
Instead of RA-751 Adonis N/S Male screw it uses RAS-752 Adonis O/S Male screw S/P



Instead of RA-950 Adonis N/S Segment rivet it uses RAS-951 Adonis O/S Segment rivet S/P



III CROWN NEW STYLE S/P TABLE LIGHTER



Uses all Adonis parts as listed on page 21 with the following exceptions:

Instead of RA-950 Adonis N/S Segment rivet it uses RCR-952 Crown N/S Segment rivet S/P



Instead of RA-605 Adonis N/S Fulcrum it uses RCR-608 Crown N/S Fulcrum S/P



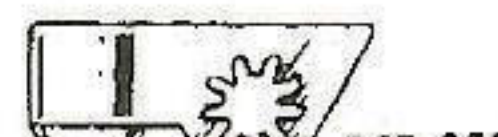
Instead of RA-211 Adonis N/S Fuel screw it uses RCR-204 Crown N/S Fuel screw S/P



Instead of RA-304 Adonis N/S Segment it uses RCR-306 Crown N/S Segment S/P



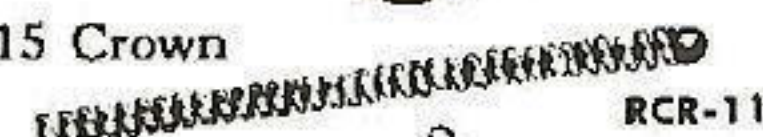
Instead of RA-355 Adonis N/S Snuffer it uses RCR-358 Crown N/S Snuffer (flat) S/P



Instead of RA-554 Adonis N/S Washer it uses RCR-555 Crown N/S Washer



Instead of RA-107 Adonis N/S Flint spring it uses RCR-115 Crown N/S Flint spring



Instead of RS-250 Adonis N/S Flint screw it uses RCR-252 Crown N/S Flint screw S/P



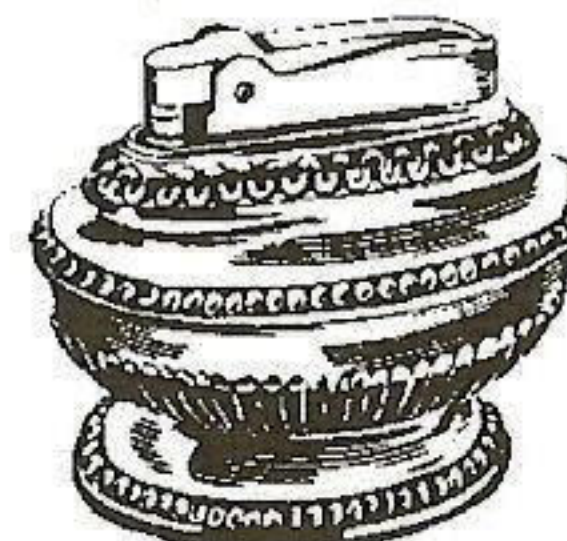
Instead of RA-751 Adonis N/S Male screw it uses RCR-754 Crown N/S Male screw S/P



Since this is a table lighter it also uses:
RCR-804 Crown N/S Felt Bottom Pads

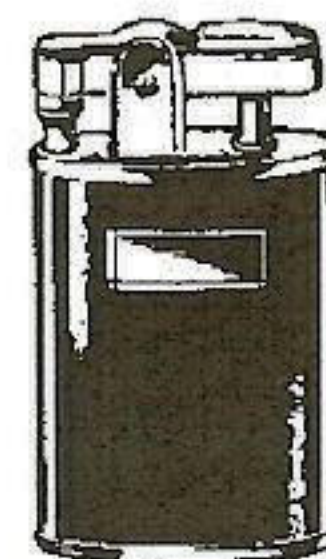


IV QUEEN ANN



All parts are exactly same as Crown listed on previous page.

V GEM LIGHTER



Uses all Adonis parts as listed on page 21 with the following exceptions:

Instead of RA-106 Adonis N/S Segment spring it uses RG-127 Gem N/S Plunger spring



Instead of RA-211 Adonis N/S Fuel screw it uses RG-218 Gem N/S Fuel screw



Instead of RA-304 Adonis N/S Segment it uses RG-128 Gem N/S Plunger



Instead of RA-355 Adonis N/S Snuffer it uses RG-366 Gem N/S Snuffer



Instead of RA-107 Adonis N/S Flint spring it uses RG-126 Gem N/S Flint spring



Instead of RS-250 Adonis N/S Flint screw it uses RG-261 Gem N/S Flint screw

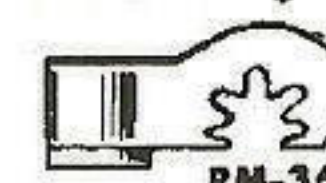


VI MAYFAIR NEW STYLE S/P TABLE MODEL

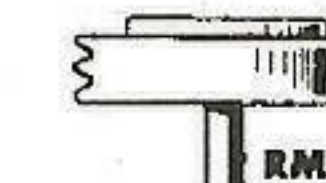


Uses all Adonis parts as listed on page 21 with the following exceptions:

Instead of RA-355 Adonis N/S Snuffer it uses RM-360 Mayfair N/S Snuffer S/P



Instead of RA-304 Adonis N/S Segment it uses RM-309 Mayfair N/S Plunger S/P



Instead of RA-211 Adonis N/S Fuel screw it uses RM-209 Mayfair N/S Fuel screw S/P



Instead of RA-605 Adonis N/S Fulcrum it uses RM-614 Mayfair N/S Fulcrum S/P



Instead of RA-751 Adonis N/S Male screw it uses RM-753 Mayfair N/S Male screw S/P



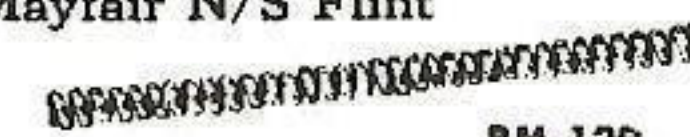
Instead of RA-554 Adonis N/S Washer it uses RM-560 Mayfair N/S Washer



Instead of RS-250 Adonis N/S Flint screw it uses RM-265 Mayfair N/S Flint screw



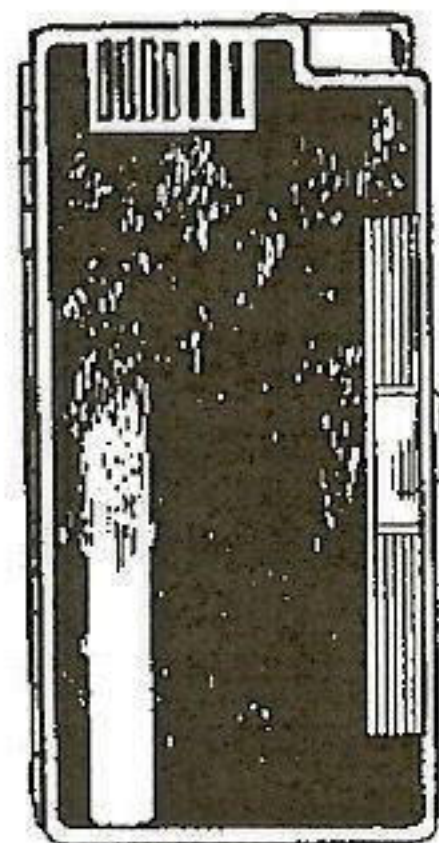
Instead of RA-107 Adonis N/S Flint spring it uses RM-129 Mayfair N/S Flint spring



Since this is a table lighter it also uses:
RM-805 Mayfair N/S Felt Bottom Pads



VII PAL CASE COMBINATION



Uses all Adonis parts as listed on page 21 with the following exceptions:

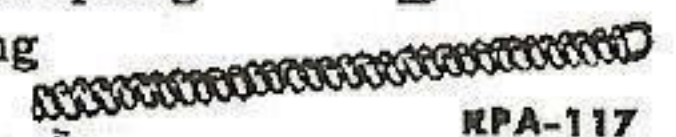
Instead of RA-355 Adonis O/S Snuffer it uses RPA-359 Pal O/S Snuffer



Instead of RA-304 Adonis O/S Segment it uses RPA-308 Pal O/S Plunger



Instead of RA-107 Adonis O/S Flint spring it uses RPA-117 Pal O/S Flint spring



Instead of RA-106 Adonis O/S Segment spring it uses RPA-112 Pal O/S Plunger spring



Instead of RA-211 Adonis O/S Fuel screw it uses RPA-208 Pal O/S Fuel screw



Instead of RA-554 Adonis O/S Washer it uses RPA-559 Pal O/S Washer



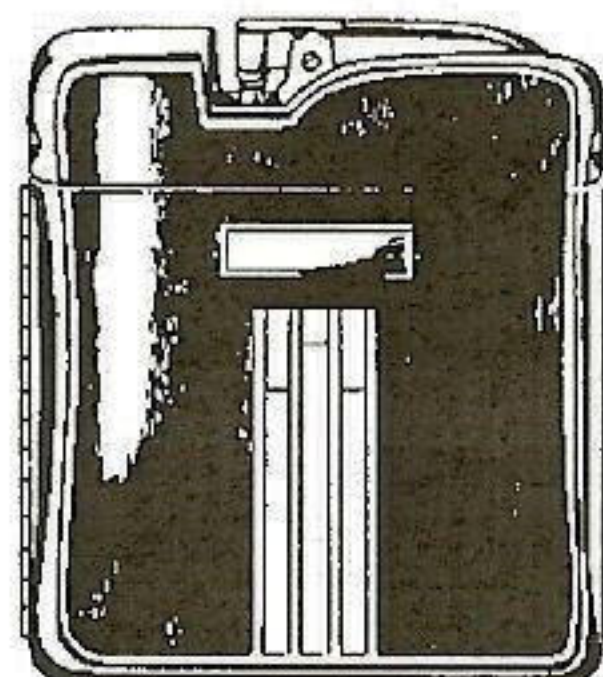
Since this is a Case combination it also uses the following component parts for the cigarette case:

RPA-803 Pal O/S Holddown Bars RPA-955 Pal O/S Catch Rivets

RPA-653 Pal O/S Case Catches RPA-113 Pal O/S Hinge Springs

RPA-903 Pal O/S Hinge Pins

VIII TEN-A-CASE NEW STYLE CASE COMBINATION



Uses all Adonis parts as listed on page 21 with the following exceptions:

Instead of RA-107 Adonis N/S Flint spring it uses RTA-110 10/Case N/S Flint spring



Instead of RA-211 Adonis N/S Fuel screw it uses RTA-207 10/Case N/S Fuel screw



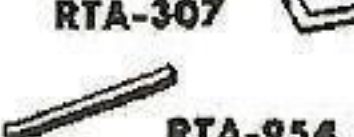
Instead of RA-250 Adonis N/S Flint screw it uses RTA-254 10/Case N/S Flint screw



Instead of RA-304 Adonis N/S Segment it uses RTA-307 10/Case N/S Segment



Instead of RA-950 Adonis N/S Segment rivet it uses RTA-954 10/Case N/S Segment rivet



Instead of RA-554 Adonis N/S Washer it uses RTA-558 10/Case N/S Washer



Since this is a Case combination lighter it also uses other parts as follows:

RTA-652 10/Case N/S Case Catches RTA-111 10/Case N/S Hinge springs

RTA-807 10/Case N/S Holddown bar RTA-902 10/Case N/S Hinge pins

3. PET NEW STYLE MOVEMENT

The Pet movement is made up of small size parts.

In the older lighters a pawl type Pet movement was used but newer models such as the New Style Penciliter, the Juno, etc., are now using a clutch wheel and clutch spring.

We are picturing the exploded view of the New Style Penciliter to illustrate these parts, as this is the model which you will probably repair most.

Listed below are the parts which go to make up the New Style Pet clutch type movement:

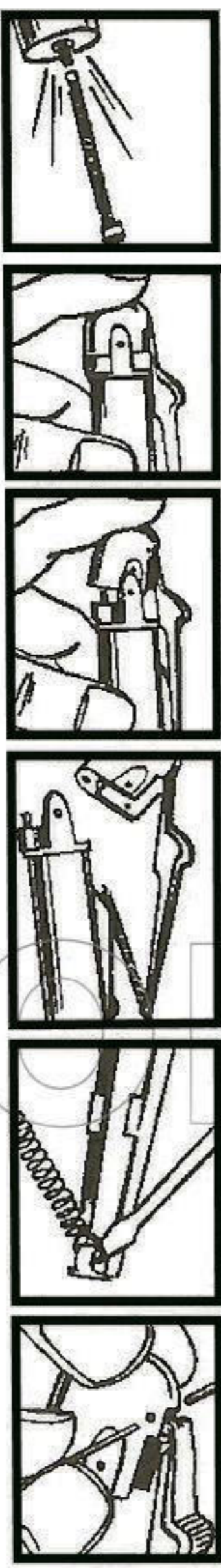
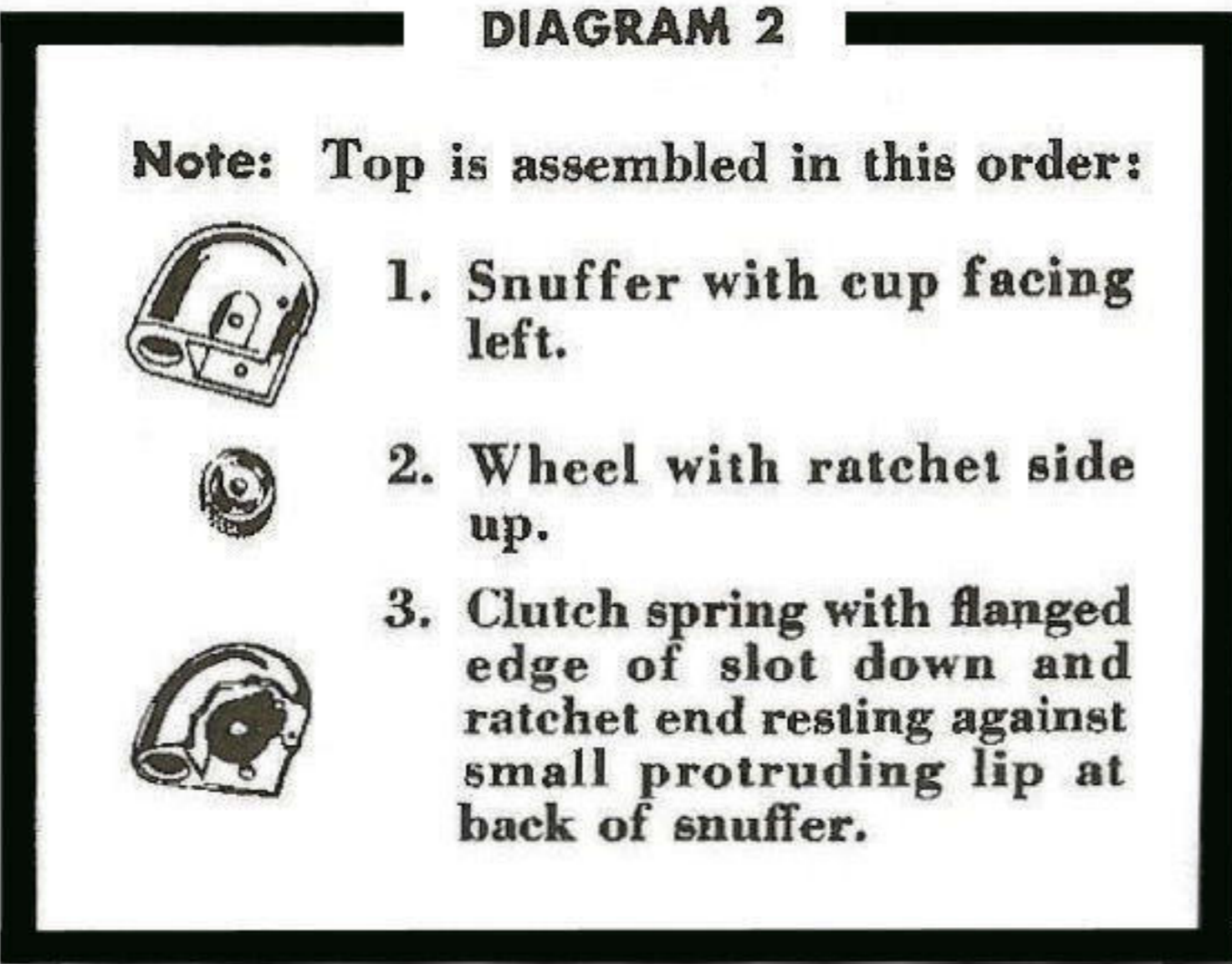
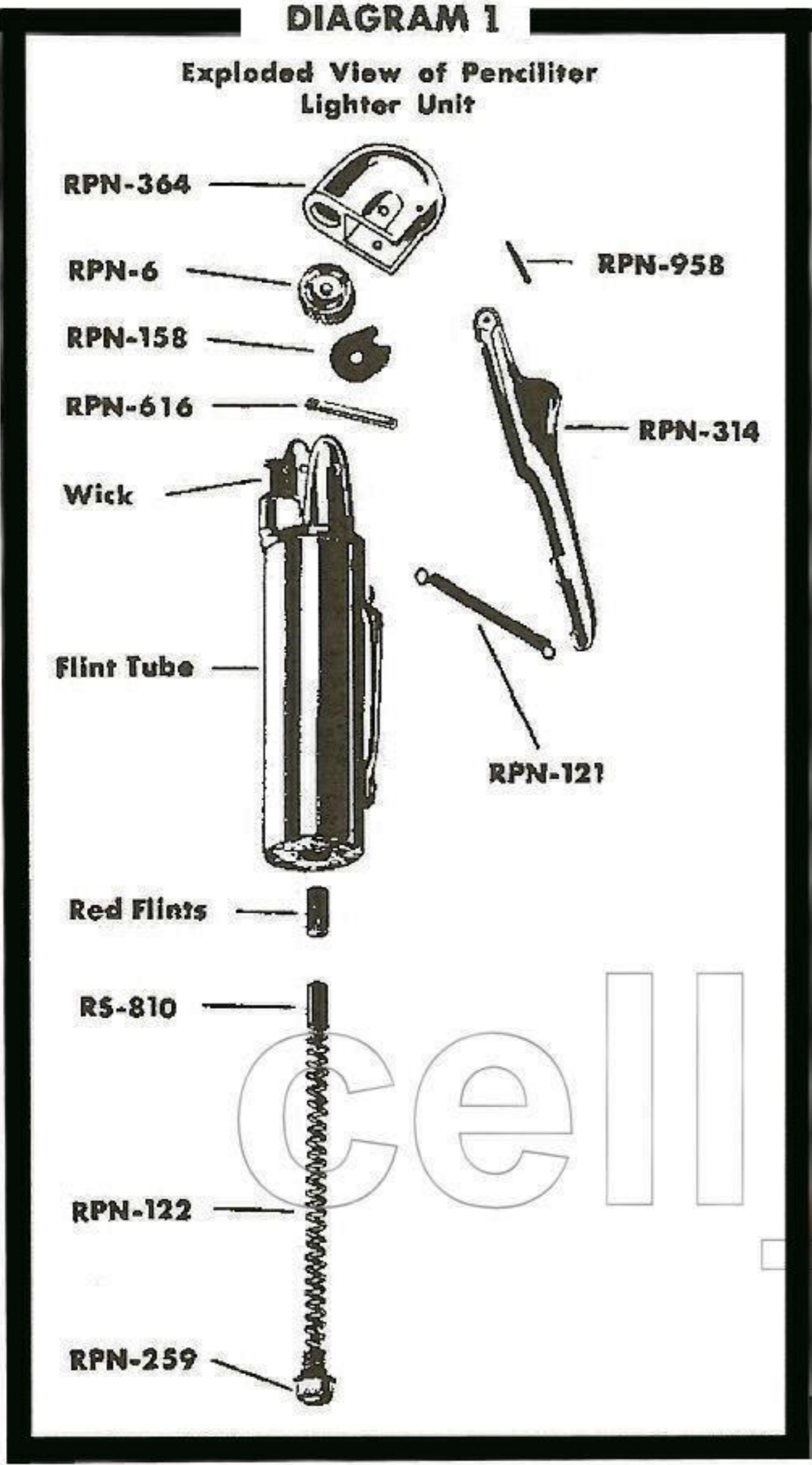
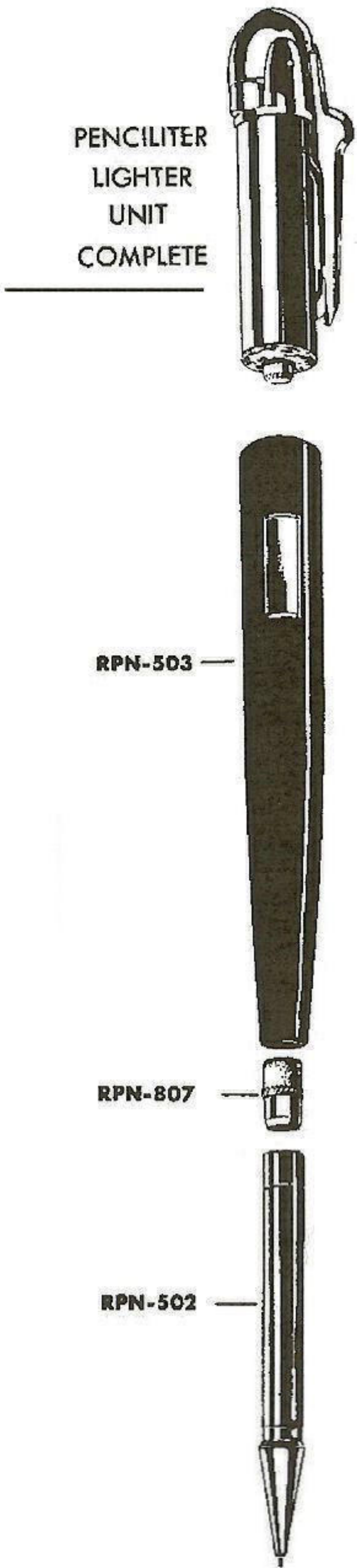
Part No.	Description
RPN-364	P/Liter N/S Snuffer Ch.
RPN-314	P/Liter N/S Thumb Lever Ch.
RPN-6	P/Liter N/S Clutch Wheel
RPN-158	P/Liter N/S Clutch Spring
RPN-121	P/Liter N/S Thumb Lever Spring
RPN-616	P/Liter N/S Fulcrum
RPN-958	P/Liter N/S Thumb Lever Rivets
RPN-259	P/Liter N/S Flint Screws
RPN-122	P/Liter N/S Flint Springs
RS-810	Std. N/S Tips for Flint Springs
RPN-807	P/Liter N/S Erasers
RPN-502	P/Liter N/S Pencil Unit
RPN-503	P/Liter Barrel

These are also parts for the New Style Penciliter Pet Movement, but are interchangeable as listed:

RPN-362	P/Liter N/S Snuffer Rh. Same as RPN-364, but finished in rhodium
RPN-363	P/Liter N/S Snuffer Gold Filled Same as RPN-364, but finished in gold
RPN-312	P/Liter N/S Thumb Lever Rh. Same as RPN-314, but finished in rhodium
RPN-313	P/Liter N/S Thumb Lever G.F. Same as RPN-314, but finished in gold
RPN-500	P/Liter N/S Pencil Unit Rh. Same as RPN-502, but finished in rhodium
RPN-501	P/Liter N/S Pencil Unit G.F. Same as RPN-502, but finished in gold

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Actual Disassembly Of New Style Penciliter



First you must always remove flint screw RPN-259 and flint spring RPN-122 and remove flint. These parts exert tension against the wheel and clutch spring and the snuffer. Unless this tension is removed it will cause the parts to fly off instead of being removed as they should.

The next step is to hold the Penciliter lighter unit firmly between thumb and finger while holding the entire top unit in place so that the sudden release of tension on thumb lever spring RPN-121 will not cause the parts to fly off.

Making sure you are holding these parts carefully, unscrew and remove fulcrum RPN-616 or if this is a very late model of Penciliter it will have a press fit rivet which must be pushed out instead of unscrewed. In either case, after the fulcrum is removed, gently ease the parts upward and away from the lighter unit.

You will now note that the thumb lever actually slides up and down over the Pencil clip and that the thumb lever spring RPN-121 is attached at the top of the Penciliter clip and at the bottom of the thumb lever RPN-314. It's this spring that exerts the upward pull on the thumb lever so that, when the lighter is assembled and you press downward on the thumb lever, the spring pulls it back up to its original position, which causes the snuffer to close at the same time.

You will note that the little hook at the bottom end of the thumb lever RPN-314 must be pried loose very gently before the spring can be taken off.

Once the spring is removed the entire top unit is then free from the lighter unit and we can proceed to remove the thumb lever from the snuffer.

In order to do this you will see that there is a small rivet #RPN-958 which holds these two parts together. This rivet must be tapped or pushed out with a tool that is actually a piece of exceptionally stiff wire a little smaller in diameter than the diameter of the rivet.

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Once the rivet is removed the disassembling of the snuffer, wheel and clutch spring is very simple.

The reassembling, of course, is done in reverse order of the disassembling.

OLDER MODELS USING PET MOVEMENT

Prior to the time the New Style Penciliter was put on the market the parts used in the Old Style Movement were exclusively Pawl type.

It has been quite sometime since any of these parts were manufactured, and most of them are no longer available.

However, we are going to list and picture for you as many of these parts as possible so that they can be used for reference purposes. Those parts which can still be obtained, we will mark with an asterisk.



These parts will be found not only in the old style Penciliter, but in very early models of the Gem pocket lighter, and the Ten-a-Case case combination. Also in a great number of the very old models, such as Literpact, Smart Set, Ladypact, and quite a number of other obsolete models.

A REMINDER

If you have any problems that are not explained in our book, please drop us a line and we will do our best to try to solve them for you.

GUIDE

for Identification of Parts and Numbers

I. PARTS LETTERS

Identification Letters	Model
RS	Ronson—Standard
RP	Ronson—Princess
RN	Ronson—Newport
RWW	Ronson—Whirlwind
RAS	Ronson—Adonis Sterling Silver
RCR	Ronson—Crown
RD	Ronson—Decanter
RMC	Ronson—Mastercase
RM	Ronson—Mayfair
RA	Ronson—Adonis
RG	Ronson—Gem
RPN	Ronson—Penciliter N/S
RTC	Ronson—Twenty-case
RPA	Ronson—Pal
RTA	Ronson—Ten-a-case
RPO	Ronson—Penciliter O/S
RTT	Ronson—Touch Tip
RTX	Ronson—Tuxedo
RSG	Ronson—Standard Gold Finish
RAG	Ronson—Adonis Gold Finish

II. PARTS NUMBERS

Numbers	Part
1-49	File Wheels
100-149	Coil Springs
150-199	Flat Steel Springs
200-249	Fuel Screws
250-299	Flint Screws
300-349	Plungers and Thumb Levers
350-399	Snuffers
400-449	Wicks, Flints and Accessories
450-499	Special Tools
500-549	Complete Units
550-599	Washers
600-649	Fulcrums
650-699	Catches and Latches
700-749	Gears
750-799	Small Screws
800-849	Miscellaneous
900-949	Hinge Pins
950-999	Eyelets and Rivets

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INTERCHANGEABILITY OF PARTS

TO FIT RONSON LIGHTERS MANUFACTURED SINCE 1940

Below is a complete list of parts to fit Ronson lighters. It is set-up in chart form to make it easier to locate the parts you want.

We have further broken the chart down into 15 groups. Each group is made up of one particular kind of parts. (Group A is all file wheels, Group B Coil springs and so on).

Each part also has a number. The letters before each number indicate the type of lighter and the model. (RS-Ronson Standard). The numbers also follow a set pattern, for instance: (Any part we have numbered from 1 to 49 is a file wheel, 100 to 149 a coil spring, etc.) Refer to listing on preceding page.

The Chart Is Set-Up as Follows



Column I:
Has a picture of each part so that you can easily recognize it.

Column II:
Lists the part number and description of each part.

Column III:
Lists the lighters in which each part will work.

Column IV:
Lists one or more parts that can be substituted for each part in the event you are out of stock on it. Please Note: That the substitutions are not the correct part but can be used in an emergency. You will see that in some cases we are substituting silver parts for chrome and vice-versa. You may find flint screw heads a little small in diameter but the threads will be correct. In all cases we recommend that substitutions be used only when necessary.








SECTION A—FILE WHEELS NUMBERS 1 TO 49

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-1 Std. N/S Clutch Wheels	Standard, Whirlwind, Princess, Vanguard, Viking, Maximus, Banker, Master-Case, Decanter, Newport, Leona	RS-2 if movement is changed over to pawl type (Pawl spring, etc.)
	RS-2 Std. N/S Pawl Wheels	Standard, Princess	RS-1 if movement is changed over to clutch type RS-3 Redrill hole to .111 dia.









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SECTION A—FILE WHEELS NUMBERS 1 TO 49

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-3 Std. O/S Pawl Wheels (Small Hole)	Fits all older models using .096 fulcrum	RS-2 can be used by redrilling holes in lighter posts to .111 and replacing gears with RS-700
	RA-4 Adonis N/S Clutch Wheels (5 ratchet)	Adonis, Adonis S/S O/S, Adonis 14K, Pal, Ten-Case, Minerva, Crown, Queen Ann, Mayfair, Diana, Leona, Senator, Spartan, Gem	RA-9 RA-5 can be used if movement is converted to Pawl type. (Pawl spring, etc.)
	RA-5 Adonis N/S Pawl Wheels	Can Be Used With Any Gem Movement If RA-155 Pawl Spring Is Used	RA-4 or RA-9 can be used if movement is converted to clutch type
	RPN-6 P/Liter N/S Clutch Wheels	P/Liter, Juno, Gloria	
	RPO-7 P/Liter O/S Pawl Wheels	10/Case O/S, P/Liter O/S	
	RTT-8 Touch Tip O/S Pawl Wheels	Touch Tip O/S	
	RA-9 Adonis N/S Clutch Wheels (9 ratchet)	Adonis, Adonis S/S O/S, Adonis 14K, Pal, Ten-Case, Minerva, Crown, Queen Ann, Mayfair, Diana, Leona, Senator, Spartan, Gem	RA-4 RA-5 can be used if movement is converted to Pawl type (Pawl spring, etc.)









SECTION B—COIL SPRINGS NUMBERS 100 TO 149

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-100 Std. N/S Plunger Springs	Standard, Princess, Whirlwind, Master-Case, Banker, Newport, Leona, Vanguard, Viking, Maximus	
	RS-101 Std. N/S Flint Springs and Tips	Standard, Vanguard, Viking, Gloria	All flint springs used in Ronson lighters are the same diameter. Only the length is different
	RS-102 Std. O/S Plunger Springs	Fits Standard old style Plunger	Same diameter as flint springs
	RS-103 Std. O/S Flint Springs and Tips	Fits Standard old style or Standard De-lite	See RS-101
	RP-104 Prin. N/S Flint Springs and Tips	Fits Princess old style or De-lite or Princess new style	See RS-101
	RP-105 Prin. O/S Plunger Springs	Fits Princess O/S or De-lite	Same diameter as flint springs
	RA-106 Adonis N/S Segment Springs	Adonis, Adonis S/SO/S, Adonis 14K, Ten-Case, Minerva, Crown, Queen Ann, Diana, Senator, Spartan	
	RA-107 Adonis N/S Flint Springs and Tips	Adonis, Adonis S/S O/S, Adonis 14K	See RS-101

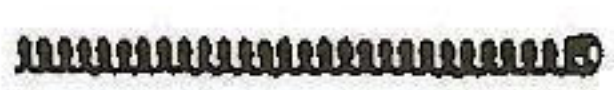






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SECTION B—COIL SPRINGS NUMBERS 100 TO 149

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RTC-108 20/Case N/S Segment Springs	20/Case	
	RTC-109 20/Case N/S Flint Springs	20/Case	See RS-101
	RTA-110 10/Case N/S Flint Springs	10/Case	See RS-101
	RTA-111 10/Case N/S Hinge Springs	10/Case	RPA-112
	RPA-112 Pal N/S Plunger Springs	Pal, Gem, Mayfair	Same diameter as flint springs
	RPA-113 Pal N/S Hinge Springs	Pal	RTA-111
 This spring is 4" long	RD-114 Decanter N/S Flint Springs	Decanter	See RS-101
	RCR-115 Crown N/S Flint Springs	Crown, Queen Ann, Diana	See RS-101








SECTION B— COIL SPRINGS NUMBERS 100 TO 149

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RMC-116 M/Case N/S Flint Springs	Master-Case, King-Case	See RS-101
	RPA-117 Pal N/S Flint Springs and Tips	Pal	See RS-101
	RWW-118 W/W Flint Springs and Tips	Whirlwind	See RS-101
	RMC-119 M/Case N/S Hinge Springs	ter-Case, King-Case	
	RTC-120 20/Case N/S Hinge Springs	20/Case, Tuxedo	RTC-125
	RPN-121 P/Liter N/S Thumb Lever Springs	P/Liter, Juno, Gloria	
	RPN-122 P/Liter N/S Flint Springs and Tips	P/Liter	See RS-101









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SECTION B — COIL SPRINGS NUMBERS 100 TO 149

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RAS-123 Adonis O/S Flint Springs and Tips	Adonis Old Style	See RS-101
	RPO-124 P/Liter O/S Flint Springs and Tips	10/Case O/S, P/Liter O/S	See RS-101
	RTC-125 Tuxedo O/S Hinge Springs	Tuxedo, 20/Case	RTC-120
	RG-126 Gem N/S Flint Springs and Tips	Gem	See RS-101
	RN-127 Newport N/S Flint Springs	Newport New Style	See RS-101
	RG-128 Gem N/S Plunger Spring	Gem, Pal, Mayfair	Same diameter as flint springs
	RM-129 Mayfair N/S Flint Springs and Tips	Mayfair, Newport	See RS-101







SECTION C—FLAT STEEL SPRINGS NUMBERS 150 TO 199

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-150 Std. N/S Clutch Springs T/C	Standard, Princess, Whirlwind, Vanguard, Viking, Maximus, Banker 14K, Master-Case, 20/Case, New Style Pal, Leona, Newport, Decanter, Banker O/S, King Case	RS-161 or RS-151 if movement is converted to Pawl type
	RS-151 Std. N/S Pawl Springs	Used In Any Old Type Std. Movement, Standard Old Style, Princess Old Style, etc.	RS-150 or RS-161 if movement is converted to clutch type
	RP-152 Prin. N/S Pawl Springs	Fits Princess old style or De-lite	RS-151 or RS-150 or RS-161 if movement is converted to clutch type
	RA-153 Adonis N/S Clutch Springs S/C Curved	Fits all lighters that RA-9 fits	RA-157 or RS-154 if RA-355 flat snuffer is used
	RA-154 Adonis O/S Clutch Springs S/C Flat	Fits all lighters that RA-9 fits	RA-153, RA-157 if RA-354 curved snuffer is used
	RA-155 Adonis O/S Pawl Spring	Any Gem Movement where RA-5 Adonis Pawl Wheel is used	RA-153, RA-157 if movement is converted to clutch type













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SECTION C—FLAT STEEL SPRINGS NUMBERS 150 TO 199

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-156 Std. O/S Pawl Springs	Fits Standard old style or Standard De-lite	RS-151 or RS-150 or RS-161 if movement is converted to clutch type
	RA-157 Adonis N/S Clutch Springs T/C Curved	Fits all lighters that RA-9 fits	RA-153 or RA-154 if RA-355 flat snuffer is used
	RPN-158 P/Liter N/S Clutch Springs	P/Liter, Juno, Gloria	
	RPO-159 P/ Liter O/S Pawl Spring	Any Pet movement where RPO-7 P/Liter O/S Pawl Wheel is used	
	RAS-160 Adonis O/S Clutch Springs	Fits all lighters that RA-9 fits	RA-154 or RA-153 or RA-157 if RA-354 or RCR-357 curved snuffer is used
	RS-161 Std. N/S Clutch Springs S/C	Standard, Princess, Whirlwind, Vanguard, Viking, Maximus, Banker 14K, Master-Case, 20/Case, New Style Pal, Leona, Newport, Decanter, Banker O/S, King Case	RS-150 or RS-151 if movement is converted to Pawl type










SECTION D—FUEL SCREWS NUMBERS 200 TO 249

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted	Use Taps Listed Below For Rethreading
	RS-200 Std. N/S Fuel Screw	Standard, Whirlwind	RCR-204, RD-210, RSG-213	AT-455
	RS-201 Std. O/S Fuel Caps	Std. O/S Delight	RS-200, RCR-204, RD-210, RSG-213	AT-455
	RP-202 Prin. N/S Fuel Screw	Fits Princess new style, Adonis (Banker O/S; Minerva, Senator, Spartan)	RA-211, RM-209, RN-220, RAS-212	AT-456
	RP-203 Prin. O/S Fuel Screw	Fits Princess O/S or De-lite	RMC-205	AT-457
	RCR-204 Crown N/S Fuel Screw	Crown, Queen Ann, Decanter	RS-200, RD-210, RSG-213	AT-455
	RMC-205 M/Case N/S Fuel Screw	Master-Case, King-Case, Princess Old Style		AT-457
	RTC-206 20/Case N/S Fuel Screw	20/Case, 10/Case	RTA-207	AT-460
	RTA-207 10/Case N/S Fuel Screw	10/Case, 20/Case	RTC-206	AT-460
	RPA-208 Pal N/S Fuel Screw	Pal	RPG-216	AT-458
	RM-209 Mayfair N/S Fuel Screw	Mayfair, Adonis Old Style, Gloria, Juno, Newport, Minerva	RAS-212, RA-211, RP-202, RN-220	AT-456

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SECTION D—FUEL SCREWS NUMBERS 200 TO 249

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted	Use Taps Listed Below For Rethreading
	RD-210 Decanter N/S Fuel Screw	Decanter, Crown, Queen Ann	RCR-204, RS-200, RSG-213	AT-455
	RA-211 Adonis N/S Fuel Screw	Adonis, Princess	RP-202, RAS-212, RM-209, RN-220	AT-459
	RAS-212 Adonis O/S Fuel Screw	Adonis Old Style, Mayfair, Diana, Juno, Gloria	RM-209, RP-202, RA-211, RN-220	AT-455
	RSG-213 Std. N/S Fuel Screw Dureum	Std. Dureum	RS-200, RCR-204, RD-210	AT-456
	RAG-214 Adonis N/S Fuel Screw Dureum	Adonis 14K	RA-211, RAS-212, RP-282, RM-209, RN-220	AT-456
	RTG-215, 20/Case N/S Fuel Screw Dureum	20/Case (Dureum)	RTC-206, RTA-207	AT-460
	RPG-216 Pal N/S Fuel Screw Dureum	Pal Dureum	RPA-208	AT-458
	RG-218 Gem N/S Fuel Screw	Gem		AT-456
	RN-220 Newport N/S Fuel Screw	Newport New Style	RM-209, RAS-212, RA-211, RP-202	AT-456

SECTION E—FLINT SCREWS NUMBERS 250 TO 299








NOTE: All Flint Screws are Same Thread Size . . . (Use AT-454 tap to rethread)

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-250 Std. N/S Flint Screw	Standard, Princess, Adonis, Whirlwind, Vanguard, Viking, Maximus, 10/Case, 20/Case, Pal, Tuxedo, Spartan, New Style Pal, Minerva, Senator	RTA-254, RN-264, RAS-256, RCR-252, RD-255, RM-265, RA-258, RG-261, RPN-259, RSG-260, RPO-257
	RS-251 Std. O/S Flint Screw	Fits Standard old style or Standard De-lite or Princess old style	RMC-253 or RS-250 or its substitutions
	RCR-252 Crown N/S Flint Screw S/P	Adonis Old Style, Crown, Queen Ann, Decanter, Mayfair, Newport, Diana, Juno, Gloria	RN-264, RAS-256, DR-255, RM-265, RA-258, RG-261, RPN-259, RPO-257, RSG-260, RS-250, RTA-254
	RMC-253 M/Case N/S Flint Screw	Master-Case, Standard Old Style	RS-251 or RS-250 or its substitutions
	RTA-254 10/Case N/S Flint Screw	10/Case, Gem P/Liter N/S, P/Liter O/S	RG-261, RPO-257, RPN-259
	RD-255 Decanter N/S Flint Screw S/P	Decanter, Crown, Queen Ann, Gloria, Newport, Mayfair, Juno, Diana, Minerva, Adonis Old Style	RCR-252 or its substitutions
	RAS-256 Adonis O/S Flint Screw S/P	Adonis Old Style, Mayfair, Diana, Juno, Minerva, Gloria, Decanter, Crown, Queen Ann, Newport	RCR-252 or its substitutions

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SECTION E—FLINT SCREWS NUMBERS 250 TO 299

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RPO-257 P/Liter O/S Flint Screw	Gem, 10/Case, P/Liter N/S, P/Liter O/S	RPN-259, RG-261, RTA-254
	RA-258 Adonis N/S Flint Screw	Standard, Princess, Adonis, Whirlwind, Vanguard, Viking, Maximus, 10/Case, Pal, Tuxedo, New Style Pal, Senator, Spartan	RS-250 or its substitutions
	RPN-259 P/Liter N/S Flint Screw	P/Liter, Juno, Gloria, Gem, 10/Case, P/Liter O/S	RTA-254, RPO-257, RG-261
	RSG-260 Std. N/S Flint Screw (Dureum)	Std. Dureum	RS-250 or its substitutions
	RG-261 Gem N/S Flint Screw	Gem, 10/Case, P/Liter N/S, P/Liter O/S	RPN-259, RTA-254, RPO-257
	RN-264 Newport N/S Flint Screw	Newport New Style	RCR-252 or its substitutions
	RM-265 Mayfair N/S Flint Screw	Mayfair, Juno, Diana, Newport, Minerva, Crown, Queen Ann, Decanter, Gloria, Adonis Old Style	RCR-252 or its substitutions

SECTION F—PLUNGERS AND THUMB LEVERS NUMBERS 300 TO 349

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-300 Std. N/S Plungers	Standard, Whirlwind, Vanguard, Viking, Maximus	RSG-322, RS-330
	RS-301 Std. O/S Plunger	Std. O/S Delight	
	RP-302 Prin. N/S Plungers	Princess, Banker Old Style, M/Case, King Case, New Style Pal	RN-321, RP-316
	RP-303 Prin. O/S Plunger	Prin. O/S	
	RA-304 Adonis N/S Segments Ch.	Adonis, Senator, Spartan	RCR-306, RAS-305, RAG-323
	RAS-305 Adonis O/S Segments S/S	Adonis Old Style	RCR-306, RA-304, RAG-323







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SECTION F—PLUNGERS AND THUMB LEVERS NUMBERS 300 TO 349

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RCR-306 Crown N/S Segments S/P	Crown, Queen Ann, Diana	RAS-305, RA-304, RAG-323
	RTA-307 10/Case N/S Segments Ch.	10/Case	
	RPA-308 Pal O/S Plungers Ch.	Pal, Gem	RM-309, RG-327
	RM-309 Mayfair N/S Plungers S/P	Mayfair	RG-327, RPA-308
	RD-310 Decanter N/S Segment S/P	Decanter	
	RTC-311 20/Case N/S Segments Ch.	20/Case	RTC-315

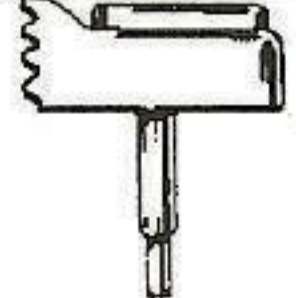
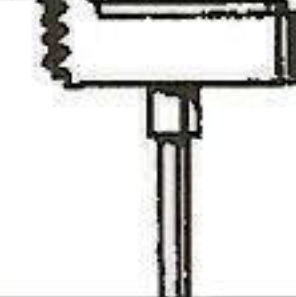




SECTION F — PLUNGERS AND THUMB LEVERS NUMBERS 300 TO 349

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RPN-312 P/Liter N/S Thumb Lever Rh.	P/Liter	RPN-313, RPN-314
	RPN-313 P/Liter N/S Thumb Lever G/F	P/Liter	RPN-312, RPN-314
	RPN-314 P/Liter N/S Thumb Lever Ch.	P/Liter	RPN-312, RPN-313
	RTG-315 20/case Segment Dureum	20/Case Dureum	RTC-311
	RP-316 Prin. N/S Plunger Dureum	Prin. Dureum, Leona, Banker 14K	RP-302, RN-321
	RLG-317 Pal O/S Plunger Dureum	Pal O/S Dureum	RPA-308, RG-327, RM-309

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SECTION F — PLUNGERS AND THUMB LEVERS NUMBERS 300 TO 349

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RPA-318 Pal N/S Plunger	Pal N/S	SPECIAL NOTE: This plunger can be replaced by grinding the end off the post of RP-302 Prin. N/S Plunger. Overall length should be as shown on drawing
	RNS-321 Newport N/S Plunger, S/P	Newport New Style	RP-302, RP-316
	RSG-322 Std. N/S Plunger Dureum	Std. Dureum	RS-300, RS-330
	RAG-323 Adonis N/S Segment Dureum	Adonis 14K	RA-304, RAS-305, RCR-306
	RG-327 Gem N/S Plungers	Gem, Pal O/S	RPA-308, RM-309, RLC-317
	RS-330 Std. N/S Plunger	Standard, Whirlwind, Vanguard, Viking, Maximus	RS-300, RSG-322

SECTION G—SNUFFERS NUMBERS 350 TO 399

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-350 Std. N/S Snuffers	Standard, Princess, Whirlwind, New Style Pal, King Case, Tuxedo, Banker Old Style	RS-368, RD-361
	RS-351 Std. O/S Snuffer	Std. O/S Delight	RS-350
	RP-352 Prin. N/S Snuffers	Princess New Style	RP-369, RN-367
	RP-353 Prin. O/S Snuffer	Prin. O/S Delight	RP-352
	RA-354 Adonis N/S Snuffer (Curved)	Adonis, Pal, Gem	RA-355, RPA-359, RG-366, RM-360, RCR-357, RCR-358
	RA-355 Adonis N/S Snuffers (Flat)	Adonis, Senator, Spartan	RA-354, or its substitutions
	RAS-356 Adonis O/S Snuffers S/S	Adonis Old Style	RCR-358, RCR-357, RA-354 or its substitutions
	RCR-357 Crown N/S Snuffer (curved) S/P	Crown, Queen Ann, Mayfair, Diana	RA-354 or its substitutions

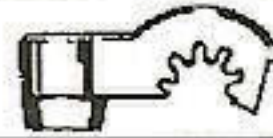




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SECTION G—SNUFFERS NUMBERS 350 TO 399

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RCR-358 Crown N/S Snuffer (flat) S/P	Crown, Queen Ann, Mayfair, Diana	RA-354 or its substitutions
	RPA-359 Pal N/S Snuffers Ch.	Adonis, Gem, Spartan, Senator	RA-354, RM-360, RG-366, RCR-357
	RM-360 Mayfair N/S Snuffers S/P	Mayfair, Crown Old Style, Queen Ann	RA-354, RPA-359, RG-366, RCR-357
	RD-361 Decanter N/S Snuffers S/P	Decanter	RS-350, RS-368
	RPN-362 P/Liter N/S Snuffers Rh.	P/Liter	RPN-364, RPN-363
	RPN-363 P/Liter N/S Snuffer G.F.	P/Liter	RPN-362, RPN-364
	RPN-364 P/Liter N/S Snuffer Ch.	P/Liter	RPN-363, RPN-362
	RPO-365 P/Liter O/S Snuffer	P/Liter O/S and Old Style Pet Movement lighters	

SECTION G — SNUFFERS NUMBERS 350 TO 399










Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RG-366 Gem N/S Snuffers	Gem, Pal	RA-354, RPA-359, RM-360, RCR-357
	RN-367 Newport N/S S/P Snuffers	Newport New Style	RP-352, RP-369
	RS-368 Std. N/S Snuffer and Gear Unit	Standard, Princess, Whirlwind, New Style Pal, King Case, Tuxedo, Banker Old Style	RS-350, RD-361
	RP-369 Prin. N/S Snuffer and Gear Unit	Princess New Style	RP-352, RN-367
	RV-370 Vanguard N/S Snuffer Unit	Vanguard, Viking, Maximus	

SECTION H — WASHERS — NUMBERS 550 TO 599







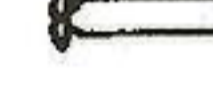

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-550 Std. N/S Washers	Standard, Whirlwind	RCR-555, RD-561
	RP-551 Prin. N/S Washers	Fits Princess New Style, Adonis	RA-554, RTC-557, RTA-558, RM-560
	RS-552 Std. O/S Washers	Fits Standard old style or Standard De-lite	

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SECTION H — WASHERS — NUMBERS 550 TO 599









Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RP-553 Prin. O/S Washers	Fits Princess O/S or De-lite	
	RA-554 Adonis N/S Washers	Adonis, Princess	RP-551 or its substitutions
	RCR-555 Crown N/S Washers	Crown, Queen Ann, Decanter	RS-550, RD-561
	RMC-556 M/Case N/S Washers	Master-Case, King-Case, Princess Old Style	RP-551 or its substitutions
	RTC-557 20/Case N/S Washers	20/Case, 10/Case	RP-551 or its substitutions
	RTA-558 10/Case N/S Washers	10/Case	RP-551 or its substitutions
	RPA-559 Pal N/S Washers	Pal	RP-551 or its substitutions
	RM-560 Mayfair N/S Washers	Mayfair, Adonis Old Style, Gloria, Juno, Newport, Minerva	RP-551 or its substitutions
	RD-561 Decanter N/S Washers	Decanter, Crown, Queen Ann	RS-550, RCR-555

SECTION I — FULCRUM SHAFTS — NUMBERS 600 TO 649







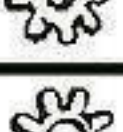

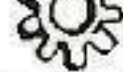

Column I Illustration of Part	Column II Part Number and Description	Column III	Column IV Part That Can Be Substituted
	RS-600 Std. N/S Fulcrums	Standard, Whirlwind, Princess, Vanguard Viking, Maximus, Master-Case, New Style Pal, King Case, Banker Old Style	RD-607
	RS-601 Std. N/S Fulcrums (oversize)	Standard, Whirlwind, Princess, Vanguard Viking, Maximus, Master-Case, New Style Pal, King Case, Banker Old Style	
	RS-602 Std. O/S Fulcrums	Fits Standard old style or Standard De-lite	RTC-615
	RP-603 Prin. O/S Fulcrums	Fits Princess O/S or De-lite	
	RA-605 Adonis N/S Fulcrums (short)	Adonis, Pal, 10/Case, Spartan, Senator, Gem	RAS-606, RCR-608, RA-612, RAS-613, RM-614
	RAS-606 Adonis O/S Fulcrums S/P (Short)	Adonis Old Style, Crown, Queen Ann, Mayfair, Diana, Gloria	RA-605 or its substitutions
	RD-607 Decanter N/S Fulcrums S/P	Decanter, Newport	RS-600
	RCR-608 Crown N/S Fulcrums S/P	Crown, Queen Ann, Adonis Old Style, Mayfair, Diana	RA-605 or its substitutions

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SECTION I — FULCRUM SHAFTS — NUMBERS 600 TO 649

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RA-612 Adonis N/S Fulcrums (long)	Adonis, Pal, 10/Case, Spartan, Senator, Gem	RA-605 or its substitutions
	RAS-613 Adonis O/S Fulcrums S/P (Long)	Adonis Old Style, Crown, Queen Ann, Mayfair, Diana, Gloria	RA-605 or its substitutions
	RM-614 Mayfair N/S Fulcrums S/P	Mayfair, Diana, Crown, Minerva, Queen Ann, Adonis Old Style	RA-605 or its substitutions
	RTC-615 20/Case O/S Fulcrums	20/Case	RS-602
	RPN-616 P/Liter N/S Fulcrums	P/Liter, Juno, Gloria	
	RPO-618 P/Liter O/S Fulcrums	10/Case O/S, P/Liter O/S	
	RSG-619 Std. N/S Fulcrums (Dureum)	Std. Dureum, Banker-14K	RS-600 or its substitutions
	RSG-620 Adonis N/S Fulcrums (Dureum)	Adonis 14K, Pal (Dureum)	RA-605 or its substitutions








SECTION J — GEARS — NUMBERS 700 TO 749

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-700 Std. N/S Gears (Full Round)	Fits RS-350 Snuffer	RS-701, RD-708
	RS-701 Std. N/S Gears (Half Round)	Fits RS-350 Snuffer but is most commonly found in Old Style Half Gear Snuffer	RS-700, RD-708
	RS-702 Std. O/S Gears (Small Hole)	Fits Standard old style or Standard De-lite	
	RP-703 Prin. O/S Gears (Small Hole)	Fits Princess O/S or De-lite	
	RA-704 Adonis N/S Full Rd. Gears	Gem, Adonis, Pal, Adonis 14K, 10/Case, Minerva, Crown, Queen Ann, Diana	RM-707, RCR-709
	RAS-705 Adonis O/S Gears (Half Round)	Adonis Old Style	
	RPO-706 P/Liter O/S Gears	P/Liter O/S and all O/S Pet movements	
	RM-707 Mayfair N/S Gears	Mayfair, Diana, Crown, Queen Ann, Minerva	RA-704, RCR-709
	RD-708 Decanter N/S Gears	Decanter, Newport	RS-700, RS-701
	RCR-709 Crown N/S Gears	Crown, Queen Ann, Adonis New Style, Gem, Mayfair, Diana Senator, Spartan, Adonis 14K	RM-707, RA-704

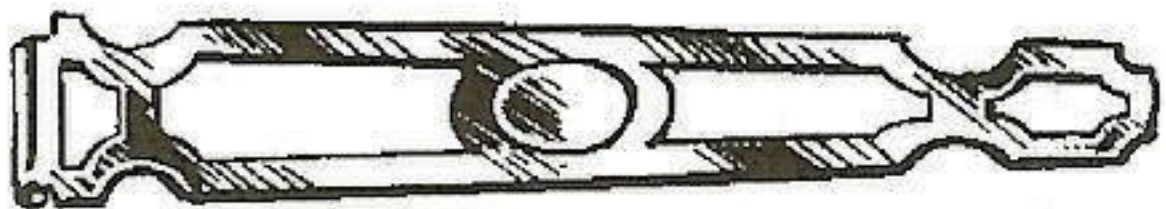
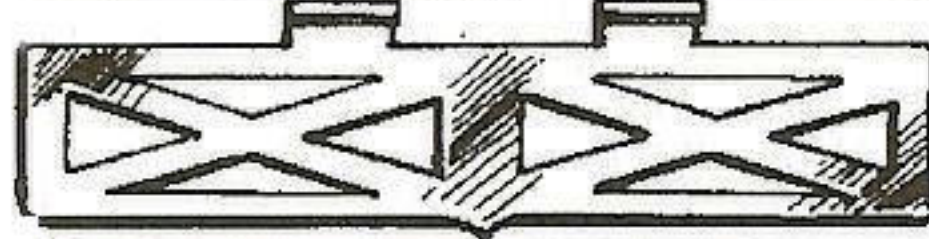
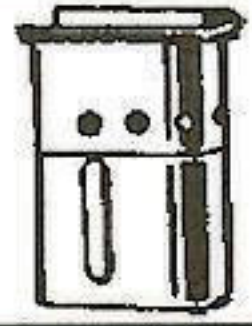
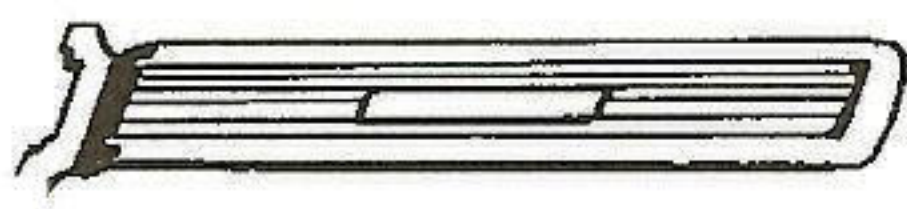
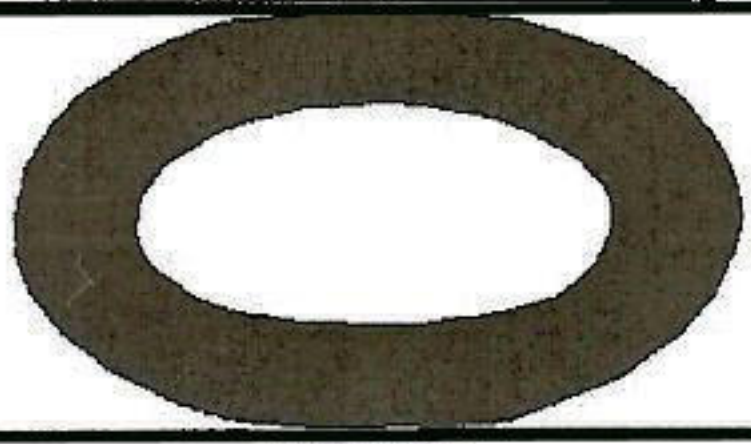
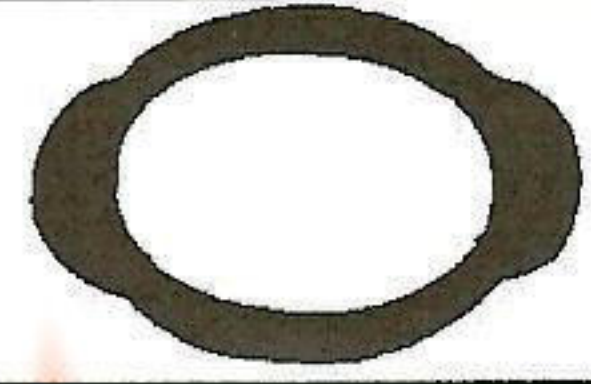
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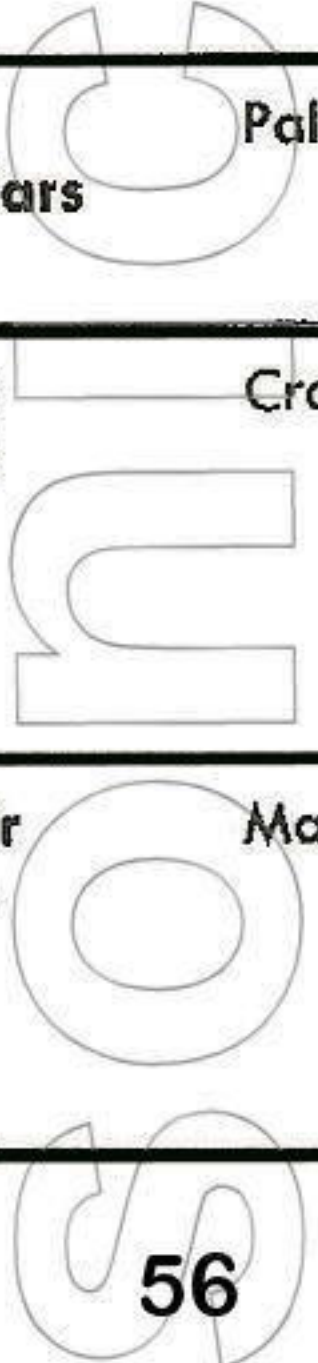
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SECTION K — SMALL SCREWS — NUMBERS 750 TO 799

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RS-750 Std. N/S Male Screws	Fits RS-600 and RS-601 Fulcrums	RA-751, RAS-752, RM-753, RCR-754, RD-755, RSG-756
	RA-751 Adonis N/S Male Screws (Long)	Adonis, Pal, 10/Case, Spartan, Senator, Gem	RS-750 or its substitutions
	RAS-752 Adonis O/S Male Screws S/P	Crown, Queen Ann, Mayfair, Diana, Juno, Gloria, Adonis Old Style	RS-750 or its substitutions
	RM-753 Mayfair N/S Male Screws S/P	Mayfair, Diana, Crown, Minerva, Queen Ann, Adonis Old Style	RS-750 or its substitutions
	RCR-754 Crown N/S Male Screws S/P	Queen Ann, Adonis Old Style, Diana, Newport, Mayfair, Decanter	RS-750 or its substitutions
	RD-755 Decanter N/S Male Screws S/P	Decanter, Crown, Queen Ann, Gloria, Newport, Mayfair, Juno, Diana, Minerva, Adonis Old Style	RS-750 or its substitutions
	RSG-756 Std. N/S Male Screws (Dureum)	Standard (Dureum), Adonis 14K, Banker 14K, Pal (Dureum)	RS-750 or its substitutions

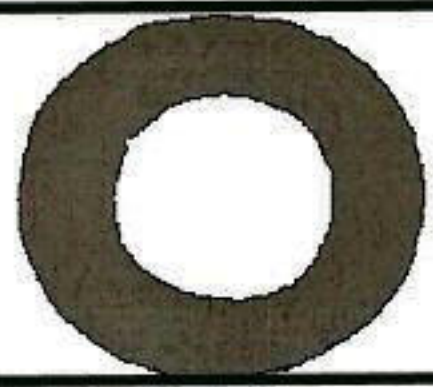
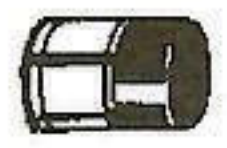




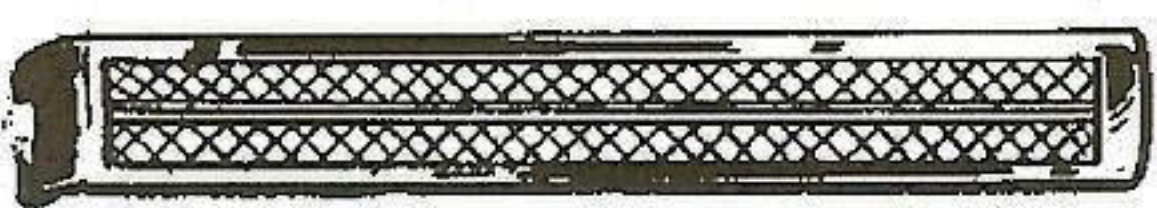
SECTION L — MISCELLANEOUS — NUMBERS 800 TO 849

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RMC-800 M/Case Holddown Bars	M/Case	
	RTC-801. 20/Case Holddown Bars.	20/Case	
	RWW-802 W/W Windguards	Whirlwind	
	RPA-803 Pal Holddown Bars	Pal	
	RCR-804 Crown N/S Felt Bottom Pads	Crown, Queen Ann	
	RM-805 Mayfair N/S Felt Bottom Pads	Mayfair	







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SECTION L — MISCELLANEOUS — NUMBERS 800 TO 849

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RD-806 Decanter N/S Felt Bottom Pads	Decanter	
	RPN-807 P/Liter N/S Erasers	P/Liter	
	RTT-808 Touch Tip Wicks	Touch Tip O/S	
	RS-809 Std. N/S Snuffer Cups only	Fits RS-350 Standard Snuffer	
	RS-810 Std. N/S Tips for Flint Springs	Fits all model flint springs	
	RS-811 Std. N/S Wick Holders	Standard, Princess, Whirlwind, Master-Case, New Style Pal, King Case. Banker Old Style	
	RTA-815 10/Case Holddown Bars	10/Case	

SECTION M — HINGE PINS — NUMBERS 900 TO 949

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RMC-900 M/Case N/S Hinge Pins	Master-Case	
	RTC-901 20/Case N/S Hinge Pins	20/Case	
	RPA-903 Pal O/S Hinge Pins	Pal O/S	RTA-902
	RTA-902 10/Case N/S Hinge Pins	10/Case	RPA-903









SECTION N — EYELETS AND RIVETS — NUMBERS 950 TO 999

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RA-950 Adonis N/S Segment Rivets Ch.	Adonis, Senator, Spartan	RAS-951, RCR-952, RTA-954, RD-957
	RAS-951 Adonis O/S Segment Rivets S/P	Adonis Old Style, Crown, Queen Ann, Diana	RA-950 or its substitutions
	RCR-952 Crown N/S Rivets S/P	Crown, Queen Ann, Adonis Old Style, Diana	RA-950 or its substitutions
	RTC-953 20/Case N/S Segment Rivets	20/Case	

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SECTION N — EYELETS AND RIVETS — NUMBERS 950 TO 999

Column I Illustration of Part	Column II Part Number and Description	Column III Lighters, In Which Part Will Work	Column IV Part That Can Be Substituted
	RTA-954 10/Case N/S Segment Rivets	10/Case, Adonis, Spartan, Senator	RA-950 or its substitutions
	RPA-955 Pal O/S Catch Rivets	Pal, 20/Case, M/Case, 10/Case	RTC-956, RMC-960
	RTC-956 20/Case N/S Catch Rivets	20/Case, M/Case, 10/Case, Pal	RPA-955, RMC-960
	RD-957 Decanter N/S Segment Rivets	Decanter	RA-950 or its substitutions
	RPN-958 P/Liter N/S Thumb Lever Rivets	P/Liter, Juno, Gloria	
	RAG-959 Adonis N/S Segment Rivet Dureum	Adonis 14K	RA-950 or its substitutions
	RMC-960 M/Case N/S Catch Rivets	Master-Case	RPA-955, RTC-956
	RTX-961 Tuxedo O/S Segment Rivets	Tuxedo, Old Style	

INTERCHANGEABILITY

OF OLDER MODEL PARTS TO FIT RONSON LIGHTERS MANUFACTURED BEFORE 1940

Note: (This list is for reference only. Many of these parts are obsolete and others are very difficult to obtain.)

Part	Lighters In Which Part Will Work
RS-251 Std. O/S Flint Screws	Princess, Tuxedo, Supercase, O/S Debonair, Banker, Standard, Twentycase, Royalpact Jr. Sports, Double Decker
RS-250 Std. N/S Flint Screws	Princess, Standard, Jr. Sport, Banker
RTA-254 10/Case Flint Screw	Tenacase, Magnacase, Literpact
PET O/S Flint Screw	Pet, Finline, Majestic, Regal, Kingcase, Sportcase, Kitcase, Queenpack, Beauticase, Gem, N/S Debonair, Fourteencase, 1939 Tuxedo, 1939 Twentycase, Ultracase
Rondette O/S Flint Screw	Rondette, Smart Set, Regent Jr., Duplex, Ace, Rondette Jr., Coronet
RPO-257 P/Liter O/S Flint Screw	O/S Penciliter
RMC-253 M/Case N/S Flint Screw	O/S Standard, O/S Princess, O/S Junior, O/S Jr. Sport, Mastercase, Rondelight Jr.
Lytacase Flint Screw	Lytacase
Touch Tip Flint Screw	Touchtip
RP-202 Prin. N/S Fuel Screw	Princess, Junior, Jr. Sport, Supercase, Banker
RP-203 Prin. O/S Fuel Screw	Princess, Rondelight Jr.
RS-200 Std. N/S Fuel Screw	Standard
RS-201 Std. O/S Fuel Screw	Standard, Rondelight

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INTERCHANGEABILITY OF OLDER MODEL PARTS TO FIT RONSON LIGHTERS

Note: (This list is for reference only. Many of these parts are obsolete and others are very difficult to obtain.)

Part	Lighters In Which Part Will Work
PET O/S Fuel Screw	Pet, Majestic, Twentycase, Royalpact, Gem, Ladypact, Sportcase, Magnacase, Tenacase Finline, Ultracase Regal, Smart Set, Literpact, Kitcase, 1939 Tuxedo, Monarch, Debonair, Double Decker, 14 case
RMC-205 M/Case N/S Fuel Screw	Ultracase, Tuxedo O/S, Mastercase, Lytacase
RS-351 Std. O/S Snuffer	Standard O/S
RS-350 Std. N/S Snuffer	Standard, Tablelighter, Tabourette
RP-353 Prin. O/S Snuffer	Princess, Mastercase, Rondelight, Tuxedo, Twentycase, Royalpact, Junior, Rondette, Jr. Sport, Banker, Supercase, Double Decker
RP-352 Prin. N/S Snuffer	Princess, Banker, Jr. Sport, Rondette, Decanter
Prin. Delight Snuffer	Princess, O/S Junior, Jr. Sport
PET O/S Snuffer	Pet, Penciliter, Jr. Rondette, Regal, Ace, Tenacase, Beauticase, Smart Set, Magnacase, Finline, Kitcase, Regent Jr., Supercase, Sportcase, Kingcase, Queenpack, Fourteencase
Lytacase Snuffer Tuxette Snuffer	Lytacase, Debonair Tuxette
RG-366 Gem N/S Snuffers	Gem, Kingcase, Queenpack, Kitcase, Heart, Coronet, Monarch, 1939 Tenacase, 1939 Magnacase, 1939 Sportcase, Smart Set, Ladypact, Ultracase, Fourteencase, Viceroy, Literpact
RS-301 Std. O/S Plungers	Standard
RS-300 Std. N/S Plungers	Standard
RP-303 Prin. O/S Plungers	Princess, Mastercase, Rondette, Jr. Sport, Banker, Supercase, Rondelight, Midget Ronde, Double Decker

**INTERCHANGEABILITY OF OLDER MODEL PARTS TO FIT
RONSON LIGHTERS**

Note: (This list is for reference only. Many of these parts are obsolete and others are very difficult to obtain.)

Part	Lighters In Which Part Will Work
RP-302 Prin. N/S Plunger	Princess, Banker, Jr. Sport, Rondette, Supercase, Mastercase
PET O/S Plungers	Pet, Smart Set, Jr. Rondette Ace, Kitcase, Beauticase
RG-327 Gem N/S Plungers	Gem, Kingcase, Queenpact, Coronet, Heart, Smart Set, Sportcase, Ultracase
Debonair Plungers	Debonair
Tuxedo N/S Segment	Tuxedo
RTC-311 20/Case N/S Segment	Twentycase, Royalpact
Magnacase N/S Segment	Magnacase
RTA-307 10/Case N/S Segment	Tenacase, Ladypact
Monarch N/S Segment	Monarch
RP-603 Prin. O/S Fulcrum	Princess, Mastercase, Rondelight, Junior, Supercase, Debonair, Rondette, Jr. Sport, Midget Rondelite
RS-600 Std. N/S Fulcrums	Princess, Standard, Jr. Sport, Banker, Decanter, Mastercase
RS-602 Std. O/S Fulcrums	Pet, Penciliter, Supercase, Tenacase, Jr. Rondette, Ace, Regent, Magnacase, Smart Set, Fineline, Heart, Majestic, Sportcase, Gem, Kitcase, Kingcase, Queenpact, Coronet, Fourteencase
RS-601 Std. N/S Fulcrums	Sportcase, Smart Set, Monarch, Magnacase, Gem, Ultracase, Ladypact, Tenacase, Jr. Rondette
RTC-615 20/Case O/S Fulcrums	Twentycase
RS-3 Std. O/S Pawl Wheel	Princess, M/Case, Standard, Supercase, Junior, Rondette, Tuxedo, Jr. Sport, Ronde, Debonair, Double Decker, 20/Case

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**INTERCHANGEABILITY OF OLDER MODEL PARTS TO FIT
RONSON LIGHTERS**

Note: (This list is for reference only. Many of these parts are obsolete and others are very difficult to obtain.)

Part	Lighters In Which Part Will Work
RA-5 Gem O/S Pawl Wheel	Tenacase, Fineline, Smart Set, Majestic, Ladypact, Magnacase, Supercase, Ace, Beauticase, Ultracase, Jr. Rondette, Gem, Kitcase, Kingcase, Queenpact, Coronet, Heart, Fourteencase
RPO-7 Pet O/S Pawl Wheel	Pet, Penciliter
RS-2 Std. N/S Pawl Wheel	Standard, Princess, Banker, Jr. Sport, Rondette, Mastercase, Supercase
Debonair File Wheel	Debonair, Duplex
RTT-8 Touchtip O/S Pawl Wheel	Touchtip
RP-105 Prin. O/S Plunger Springs	All O/S princess movements
RS-102 Std. O/S Plunger Springs	All O/S standard movements
RS-130 Gem O/S Plunger Springs	All Pet and Gem movements
RS-103 Std. O/S Flint Springs	Standard
RP-104 Prin. O/S Flint Springs	Princess, Twentycase, Royalpact, Supercase, Double Decker, Debonair, Ultracase, Pet
Pet O/S Flint Spring	Pet
Tuxedo O/S Flint Springs	Tuxedo, Rondette
Jr. Sport O/S Flint Spring	Jr. Sport, Regal, Majestic
Duplex O/S Flint Springs	Duplex, Tenacase, New Yorker, Magnacase, Kingcase, Queenpact, Fourteencase
RMC-116 M/Case N/S Flint Springs	Mastercase

INTERCHANGEABILITY OF OLDER MODEL PARTS TO FIT RONSON LIGHTERS

Note: (This list is for reference only. Many of these parts are obsolete and others are very difficult to obtain.)

Part	Lighters In Which Part Will Work
Rondette O/S Flint Springs	Rondette
RPO-124 P/Liter O/S Flint Springs	Penciliter
RWW-118 Banker N/S Flint Springs	Banker, Gem, Kitcase, Monarch
Touchtip O/S Flint Springs	Touch-tip
Jr. Rondette O/S Flint Springs	Jr. Rondette, Coronet, Heart, Ace
RMC-119 M/Case N/S Hinge Springs	Mastercase, Masterpact, Superpact, Monarch
Superpact Hinge Springs	Superpact, Fourteencase, Ultracase
Smart Set Hinge Springs	Smart Set
RTC-120 20/Case Hinge Springs	Twentycase, Royalpact
RTA-111 10/Case Hinge Springs	Tenacase, Flat Tenacase, Oval Twentycase
Queenpact N/S Hinge Springs	Queenpact, Fifteencase, Magnacase, Magnapact
Double Decker Hinge Springs	Double Decker
Lytacase Hinge Springs	Lytacase, Tuxedo
Kingcase Hinge Springs	Kingcase
Beauticase Hinge Springs	Beauticase
Holder Bar Springs	Twentycase
Touchtip Rod	Touch-tip

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INTERCHANGEABILITY OF OLDER MODEL PARTS TO FIT RONSON LIGHTERS

Note: (This list is for reference only. Many of these parts are obsolete and others are very difficult to obtain.)

Part	Lighters In Which Part Will Work
RTT-808 Touchtip Wicks	Touch-tip
Flint Bars	Strikelighters
Wick Units	Strikelighters
Complete Striker	Strikelighter
RS-550 Std. N/S Washers	N/S Standard
RS-552 Std. O/S Washers	O/S Standard, New Yorker, Rondelite
RP-551 Prin. N/S Washers	N/S Princess, Supercase, Jr. Sport, Tuxedo, Mastercase, Junior
RP-553 Prin. N/S Washers	O/S Princess, O/S Junior, Lytacase, O/S Jr. Sport
Gem O/S Pawl Wheel	O/S Gem
RA-155 N/S Pawl Wheel	N/S Gem
Prin. O/S Pawl Wheels	O/S Princess
RP-152 Prin. N/S Pawl Wheel	N/S Princess
Std. O/S Pawl Springs	O/S Standard
RS-151 Std. N/S Pawl Springs	N/S Standard
Pet O/S Pawl Springs	Pet
Snuffer Cap Screws	
Caps for Snuffers	

IMPORTANT:

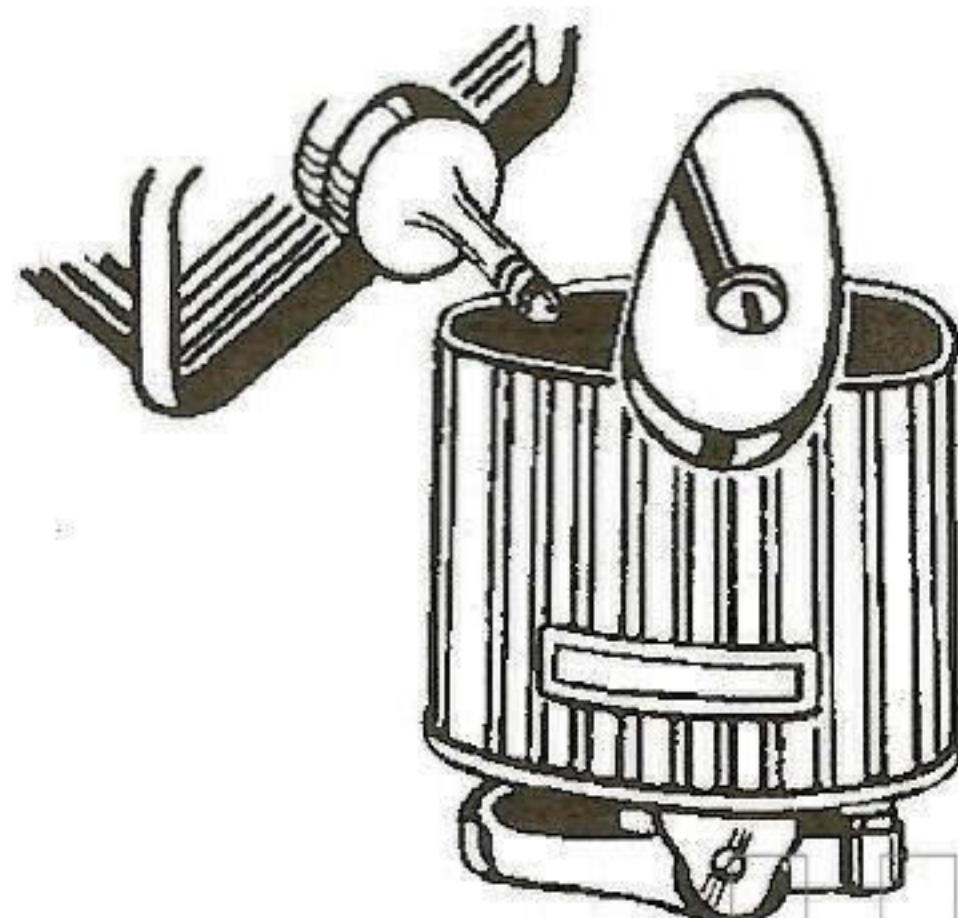
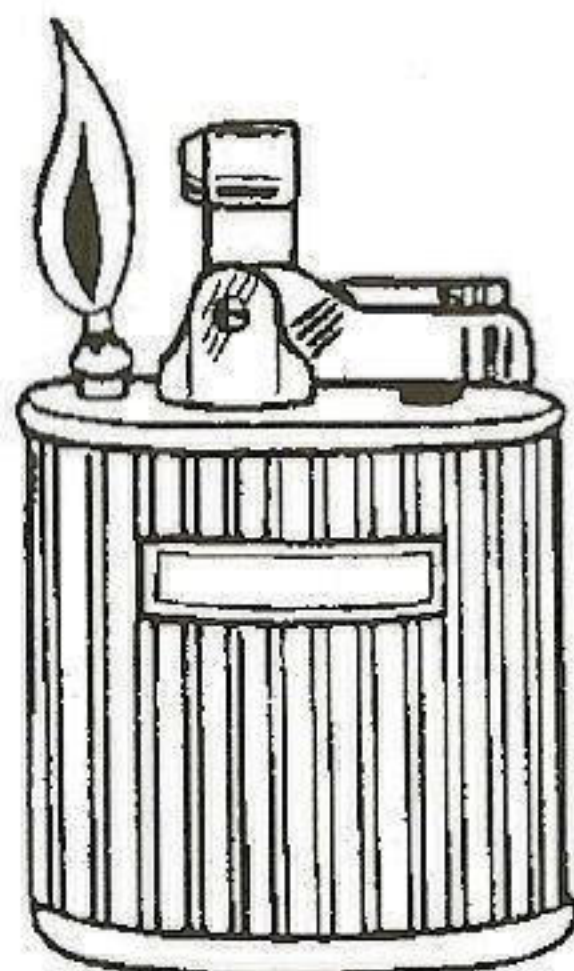
WHEN ORDERING, PLEASE ALWAYS DESIGNATE THE MODEL FOR WHICH PARTS ARE REQUIRED.

NEW LIGHTERS

Below are pictured several new lighters that have appeared on the market.

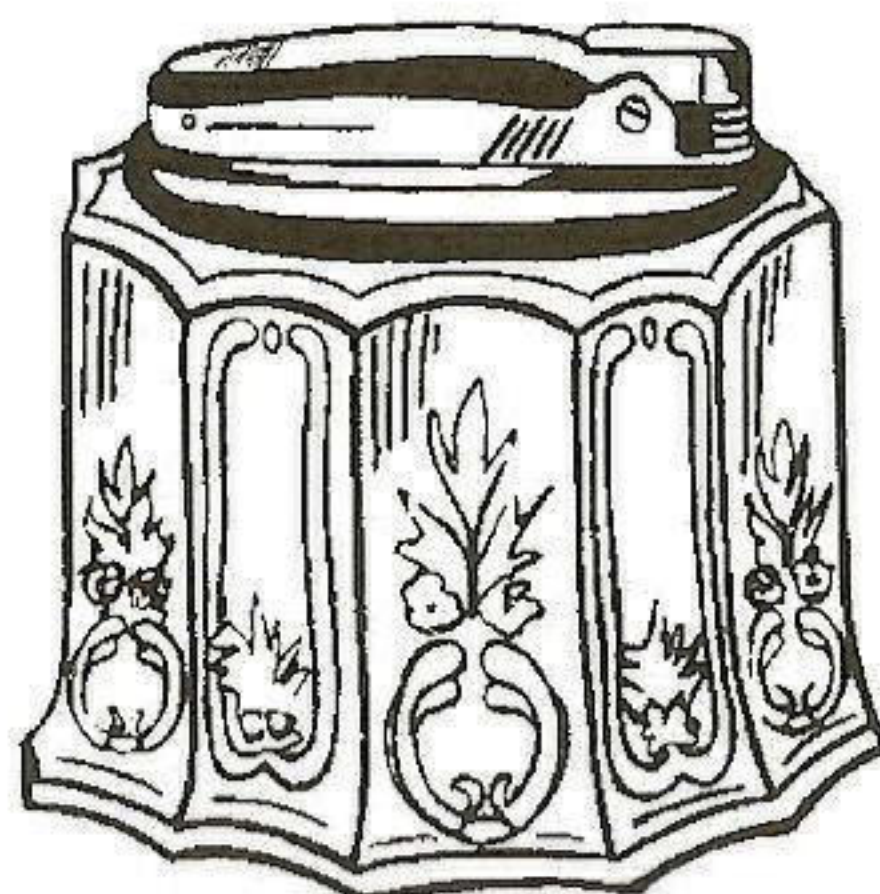
I. Ronson Triumph

Uses standard movement parts. Note new type of fuel arrangement.



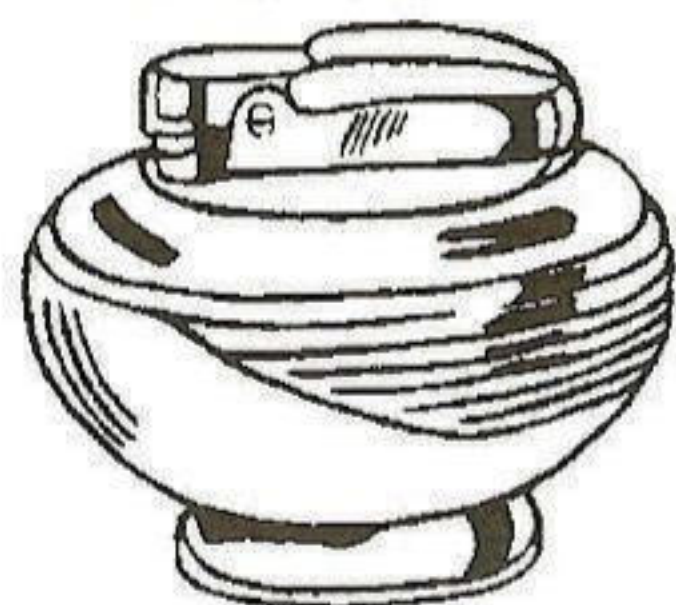
II. Ronson Colonial

Uses Gem movement working parts and Crown snuffer, segment and fuel screw.



III. Ronson Lotus

Uses Gem movement working parts and Crown snuffer, segment and fuel screw.



IV. Ronson Melrose

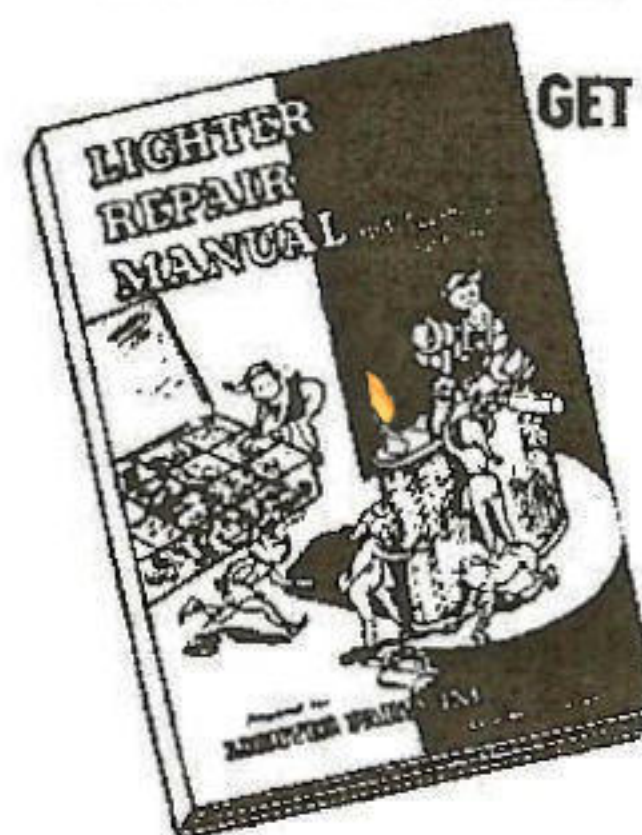
Uses Gem movement working parts and Crown snuffer, segment and fuel screw.



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HOW TO REPAIR EVANS LIGHTERS

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GET YOUR FREE COPY OF THE COMPLETE REPAIR MANUAL

FREE

(One to a Customer)

1. With the purchase of an X-500 Kit of Parts to fit Ronson which costs you \$50.00 net.
- Or
2. With the purchase of \$50.00 net in repair parts.

The Complete Lighter Repair Manual contains 150 pages of illustrations, instructions, and pictures to show you how to repair all popular lighters.

Kits are available from \$10.00 to \$1,000 and each kit is designed as a starting assortment that makes it easy for anyone to repair lighters. Instructions free with every kit, regardless of size. For Example:

KIT X-200

contains 388 parts to fit: Ronson Standard, Whirlwind, Vanguard, Maximus, Triumph, Adonis, Princess, Crown, Queen Anne, Mastercase, Senator, Pal, Gem, Newport, Decanter, Mayfair, Ten-Case, and Many Other Models.

This Kit Will Bring \$75.00 to \$125.00 in resales and repairs!

The List Price of this kit is **\$41.67**

You get a 40% discount **16.67**

Your cost is **\$.25.00 net**

FREE And at No Extra Charge You Get 34 Compartment 4 1/4 x 8 1/4 Plastic Storage Chest 6 Window Streamers, REPAIR MANUAL For Ronson Lighters (one to a customer)

KIT A-1000

contains a complete assortment of parts to fit: Ronson, Evans, Thorens, Elgin American, and Most Other Popular Lighters.

This Kit will bring in more than \$500.00 in resales and repairs.

The List Price Of This Kit is **\$166.67**

You Get a 40% Discount **66.67**

Your cost is **\$.100.00 net**

FREE And at no extra charge you get Metal Storage Cabinet Window Display Streamers S-800 Plastic Counter Display. . . . And Best Of All You Get The COMPLETE REPAIR MANUAL FREE With This Kit. (one to a customer)

Get Your FREE Repair Manual By Ordering Now!

This Offer is subject to cancellation at any time without notice.

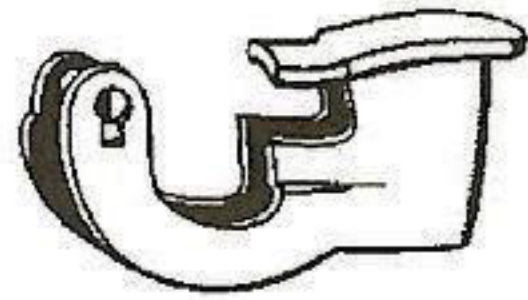
Don't forget that Tiny-Kits are available for all models of Ronson, Evans, Thorens, A.S.R. and other popular lighters. They cost you only \$2.50 net and contain enough parts to repair up to 25 lighters. TRY ONE! (See Page 100 for further information)

SPECIAL NOTE!

Send check in Advance! Save Postage & C.O.D. Fees!

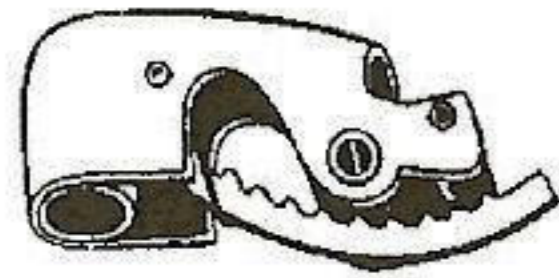
Parts to refill all Kits are available from
LIGHTER PARTS, INC., 2 E. Stockton Ave., Pittsburgh 12, Pa.

LIST OF PARTS FOR EVANS LIGHTERS



- E-300 Thumb Lever N/S Rose Gold
- E-301 Thumb Lever N/S Yellow Gold
- E-302 Thumb Lever N/S Silver Plated
- E-303 Thumb Lever N/S Nickel
- E-304 Thumb Lever N/S Bronze

Note: All thumb levers for Evans are the same size and shape. The only difference is the finish.



- E-350 Snuffer N/S Rose Gold
- E-351 Snuffer N/S Yellow Gold
- E-352 Snuffer N/S Silver Bronze
- E-353 Snuffer N/S Bronze

Note: Snuffers for Evans are the same size and shape. The only difference is in the finish.



- E-100 Thumb Lever Spring



- E-800 Thumb Lever Pin



- E-600 Fulcrum Screw Nickel
- E-601 Fulcrum Screw Bronze

Note: Fulcrum Screws for Evans are the same size and shape. The only difference is in the finish.



- E-1 File Wheel



- E-250 Flint Screw Nickel
- E-251 Flint Screw Bronze

Note: Flint Screws for Evans are the same size and shape. The only difference is in the finish.



- E-200 Fuel Screw Nickel
- E-201 Fuel Screw Bronze

Note: Fuel Screws for Evans are the same size and shape. The only difference is in the finish.



- E-950 Fulcrum Rivet Nickel
- E-951 Fulcrum Rivet Bronze
- E-954 Fulcrum Rivet Rose Gold

Note: Fulcrum Rivets for Evans are the same size and shape. The only difference is in the finish.



- E-254 Slotted Flint Screw Rose Gold
- E-253 Slotted Flint Screw Nickel
- E-255 Slotted Flint Screw Yellow Gold

Note: Slotted Flint Screws for Evans are the same size, shape. The only difference is in the finish.



- E-204 Slotted Fuel Screw Nickel
- E-205 Slotted Fuel Screw Rose Gold
- E-206 Slotted Fuel Screw Yellow Gold

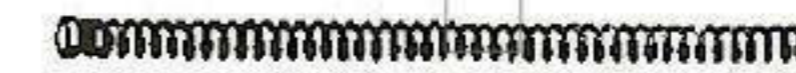
Note: Slotted Fuel Screws for Evans are the same size, shape. The only difference is in the finish.



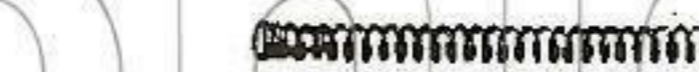
- E-550 Washer for Large Fuel Cap



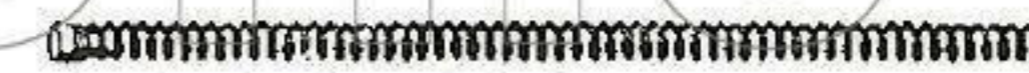
- E-551 Washer for Slotted Fuel Cap



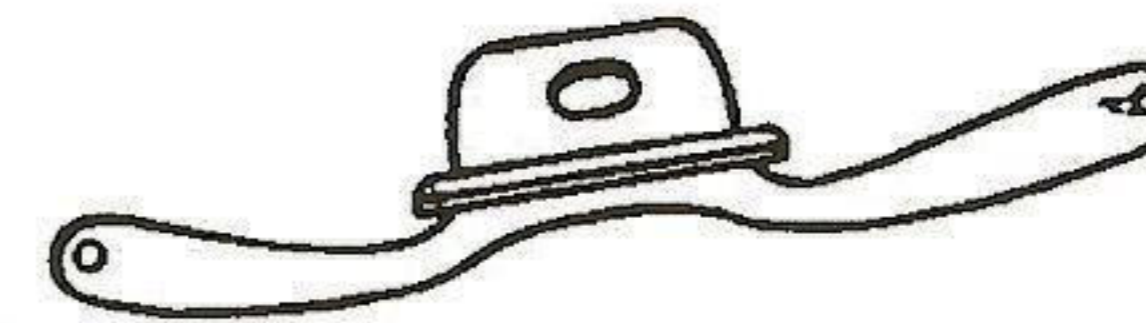
- E-101 Flint Spring Std.



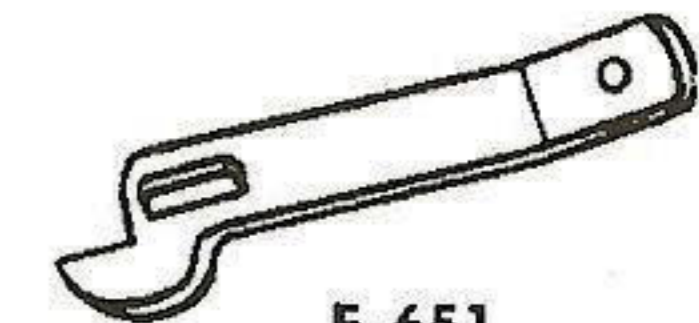
- E-102 Flint Spring Combination



- E-103 Flint Spring Extra Long



E-653
Case Catch Yellow Gold N/S



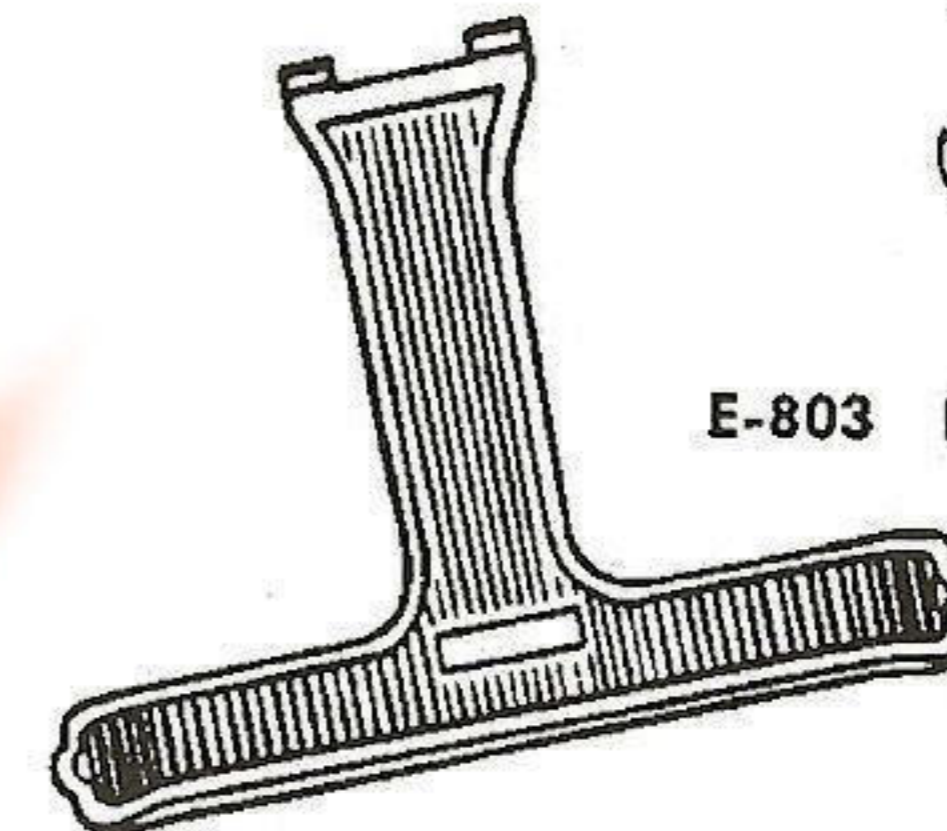
E-651
Case Catch O/S Right & Left



- E-952 Catch Rivet Nickel

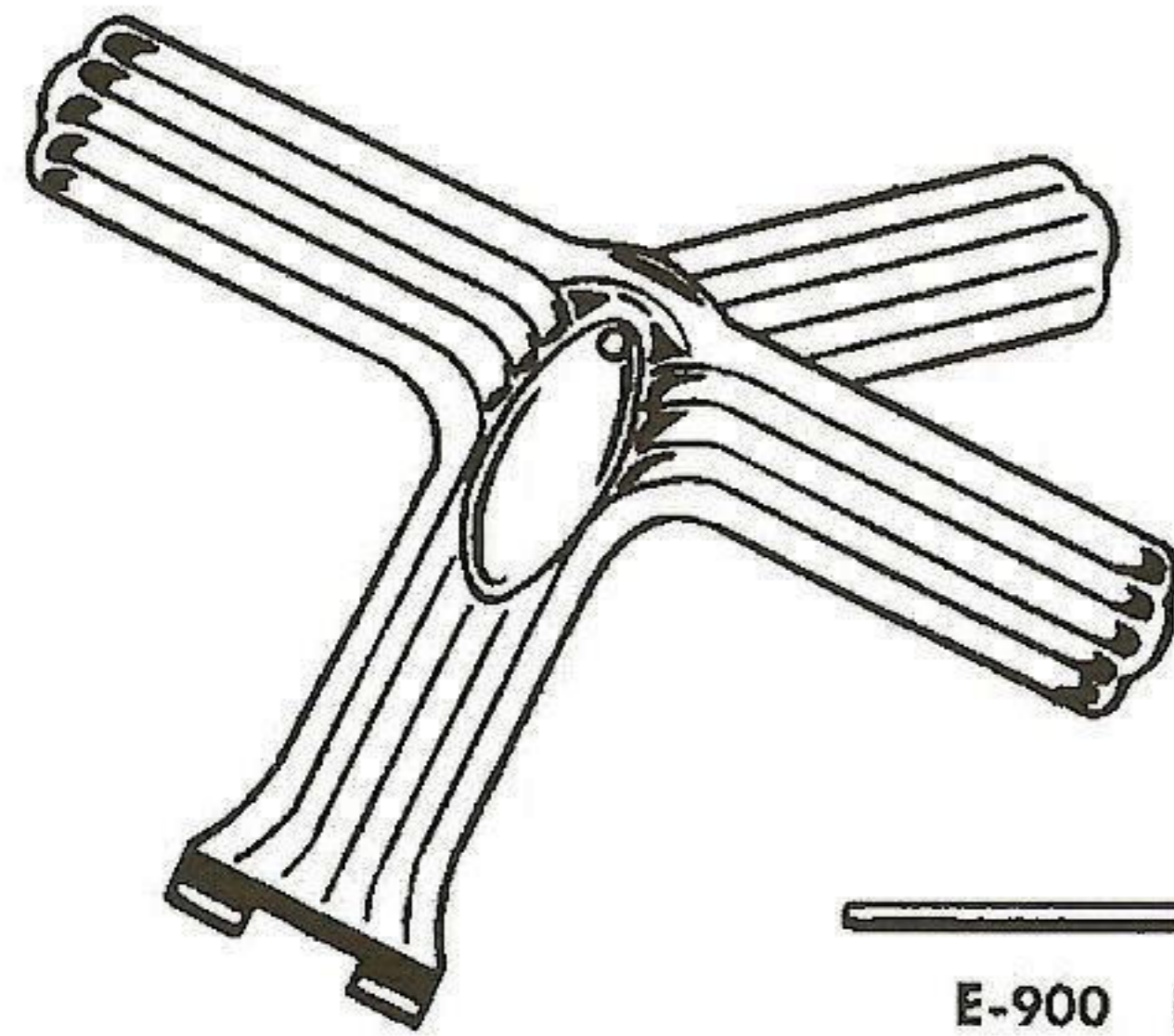


- E-953 Catch Rivet Bronze



E-803 Holddown Bar Nickel O/S

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E-805 Holddown Bar
Yellow Gold N/S



E-900 Hinge Pin O/S (short)



E-901 Hinge Pin N/S
(long)

E-104 Hinge Spring



E-401 Wick & Gold Seal to fit Evans

Below are listed some odd parts which are used on various models of Evans lighters:



Bayonette type
fuel screw



Magic Lamp
fuel screw



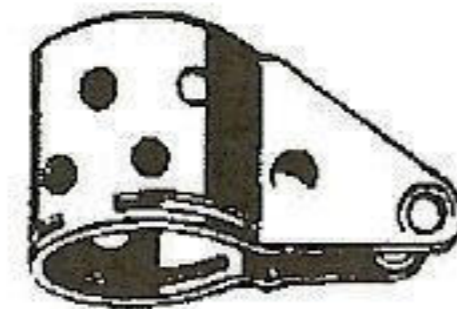
Magic Lamp washer



Windguard Screw



Windguard Stud



Windguard

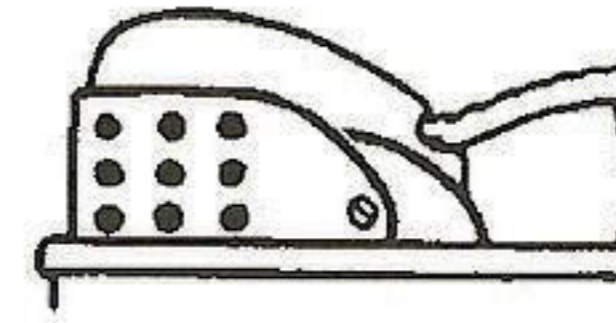


Flint Magazine

LIGHTER PARTS, Inc.
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GENERAL INFORMATION ON EVANS LIGHTERS

1. On some of the older models of Evans lighters you will note that a windguard has been used which is held in place by a windguard shaft and screw.



This shaft is used in place of one of the fulcrum screws through the rear holes in the post and the snuffer unit.

We recommend that when you run across these windguards that are worn, you simply remove them, as replacements are very difficult to obtain.

2. You will note that the Magic Lamp lighter uses a much larger fuel screw than any of the others.

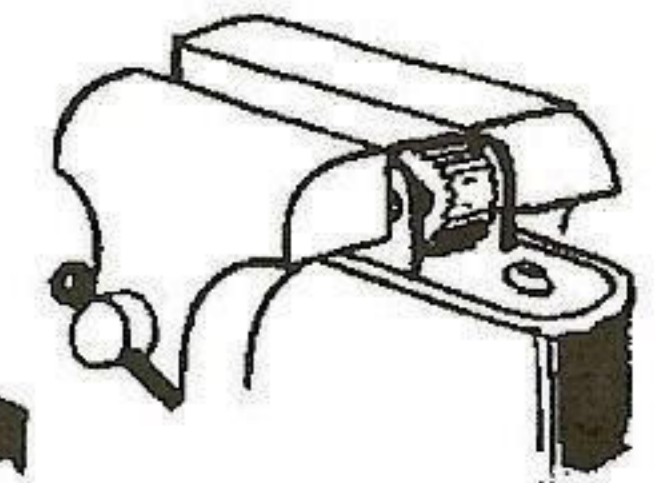
3. The Bayonette fuel screw is used on old model lighters which have two lugs in the fuel hole instead of threads.



BAYONETTE TYPE
FUEL SCREW

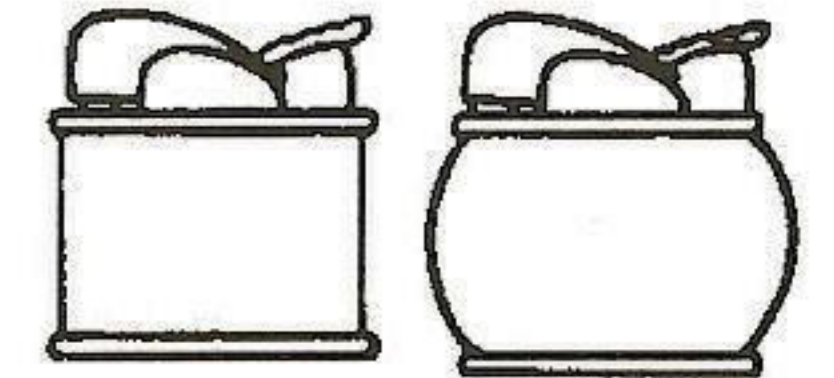
4. The top of some models of Evans lighters is held in place by two fulcrum rivets instead of fulcrum screws.

To remove these rivets we suggest that you use a pointed tool such as an awl or use a punch and tap the smaller end of the rivet lightly until it frees itself and can easily be slid out.



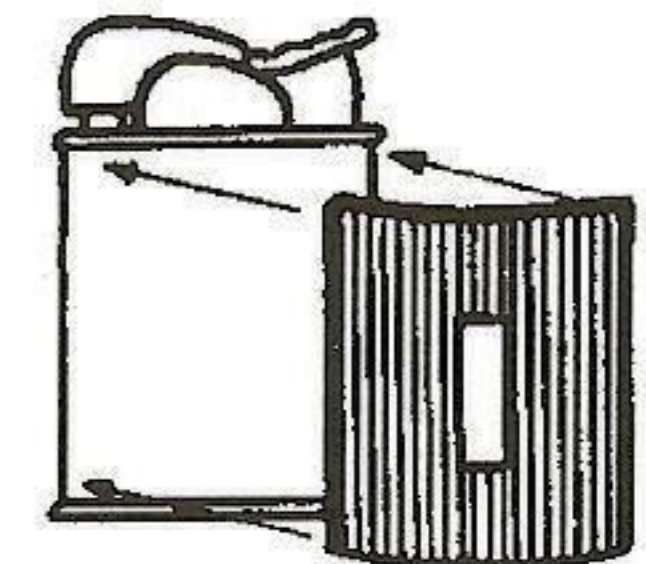
When replacing these fulcrum rivets press them in as far as possible by hand then insert the lighter in a vice to press the rivets in the rest of the way.

5. Several years ago there were only two general types of Evans lighters on the market. The rectangular shape and the oval shape.



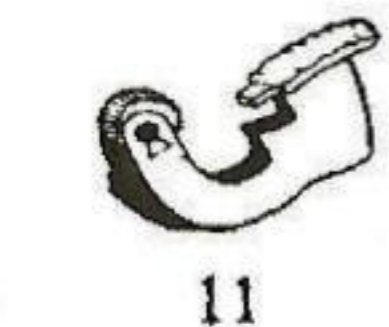
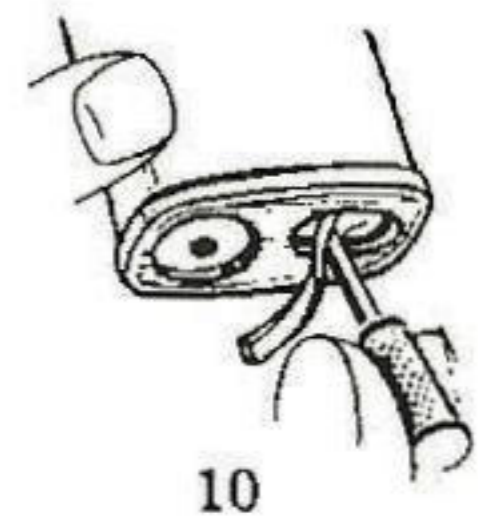
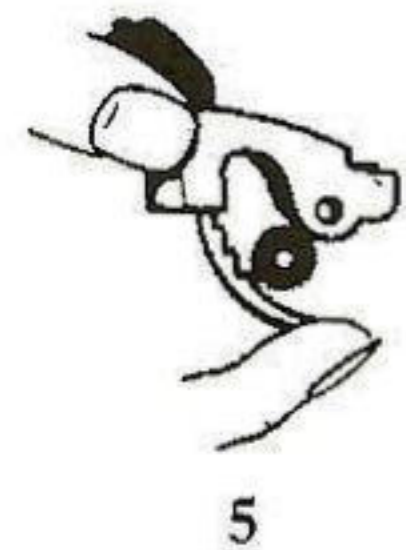
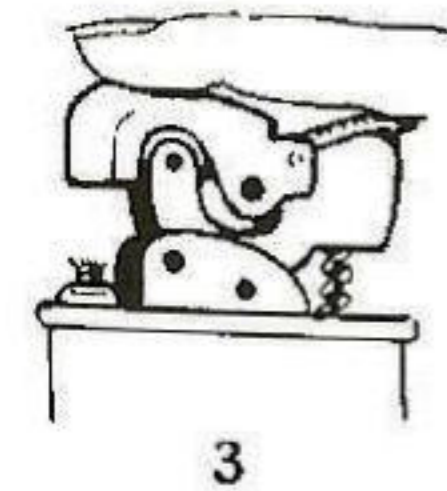
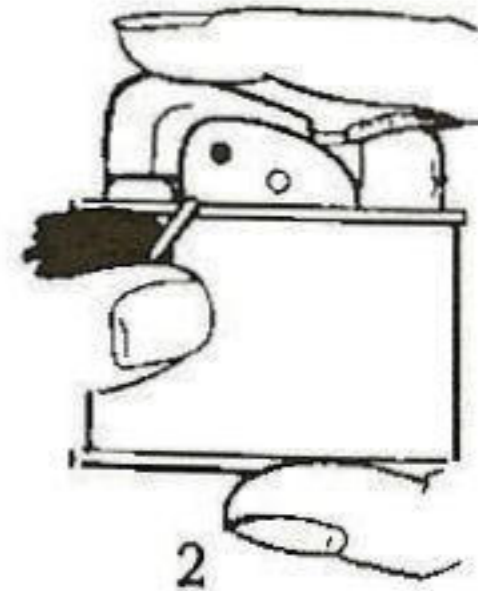
We note that in more recent years the company is still using these same shapes but have added new color and design by gluing two separate little plates on either side to cover the tank.

Check two plates on the lighter as illustrated, and should you find any of them that are loose or fallen off you can reglue them in place.

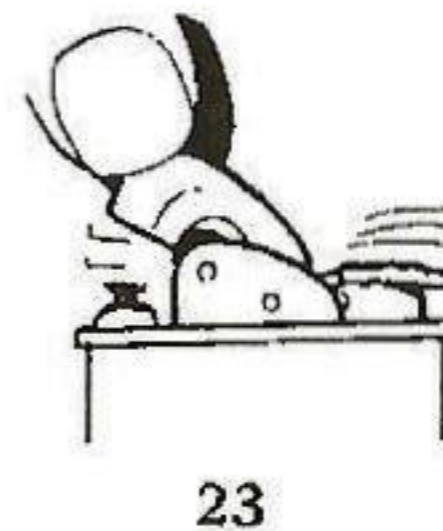
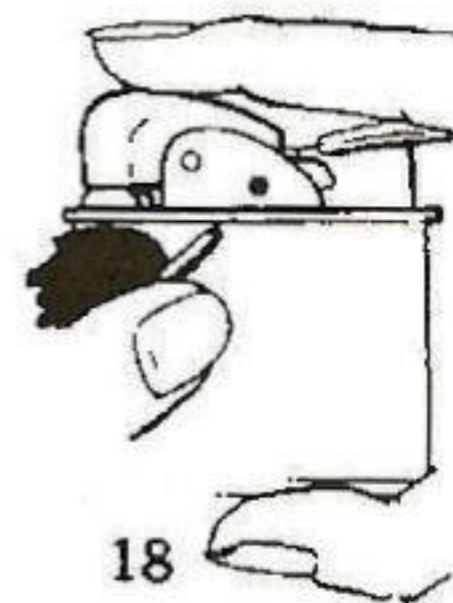
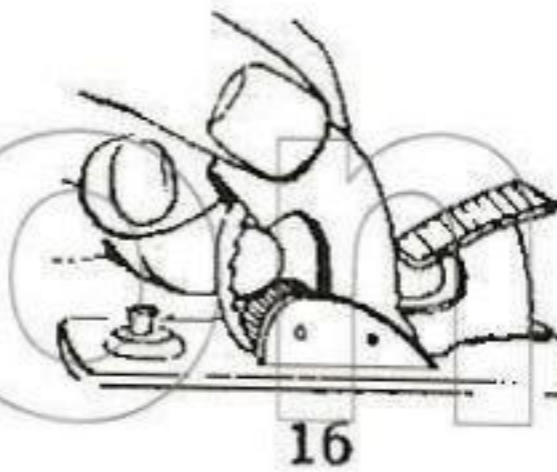
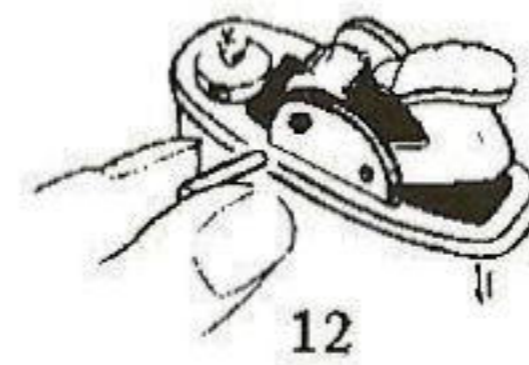


We suggest Dupont Duco Household cement for regluing. (This cement can also be used for putting leather on lighters and gluing felt pads and emblems in place.)

TO DISASSEMBLE THE EVANS LIGHTER PROCEED AS FOLLOWS:



1. Remove flint screw E-250, flint spring E-101, and flint.
2. Holding the index finger across the top of the lighter to prevent the parts from flying off, you next remove both fulcrum screws E-600 or fulcrum rivets E-950 if the lighter should be equipped with these instead of the screws.
3. Gently ease up the pressure of your finger on the top of the lighter allowing thumb lever spring E-100 to expand its full length.
4. Disengage the thumb lever E-303 from snuffer unit E-353.
5. Remove file wheel E-1 from snuffer unit by pulling down ratchet arm. File wheel will drop out.
6. Remove fuel screw E-200.
7. Lighter is now completely disassembled and you are now ready to rewick and repack.
8. To repack be sure that you have removed all of the old cotton (or in some cases you will find that Evans lighters are packed with sawdust.) Remove old wick.
9. After this is done you are ready to install the new wick and seal unit.
10. After the wick has been pulled through the lighter and out the fuel hole, repack the fuel tank with new cotton taking care to mix the wick in with the cotton so that the proper capillary action will keep the wick constantly damp with fuel.
11. To reassemble, you first place file wheel E-1 between the ears of the thumb lever E-303.



12. Line up the holes and set this assembly in place in the lighter. Put one E-600 fulcrum through the entire assembly which should be lined up with the holes in the lighter posts which are closest to the wick chimney.
13. Next lift the thumb lever up as far as it will go and place the thumb lever pin E-800 in thumb lever spring E-100.
14. Place this entire spring unit in the back part of the lighter with thumb lever pin E-800 at the bottom.
15. Then swing the thumb lever down until it rests on the plunger spring.
16. Now you are ready to replace the snuffer. The snuffer must be held with the ratchet arm away from the snuffer so that this ratchet arm can be slipped in front of and under file wheel E-1.
17. Next slip the back of the snuffer E-353 on to the lug provided for it on thumb lever E-303. Steps 16 and 17 are done at the same time.
18. Press the snuffer down until the holes line up with the rear holes in the lighter posts and insert the other fulcrum E-600.
19. Replace fuel screw E-200.
20. Replace flint.
21. Replace flint spring E-101.
22. Replace flint screw E-250.
23. Working the snuffer by hand for the first three or four times, check the operation of the lighter.

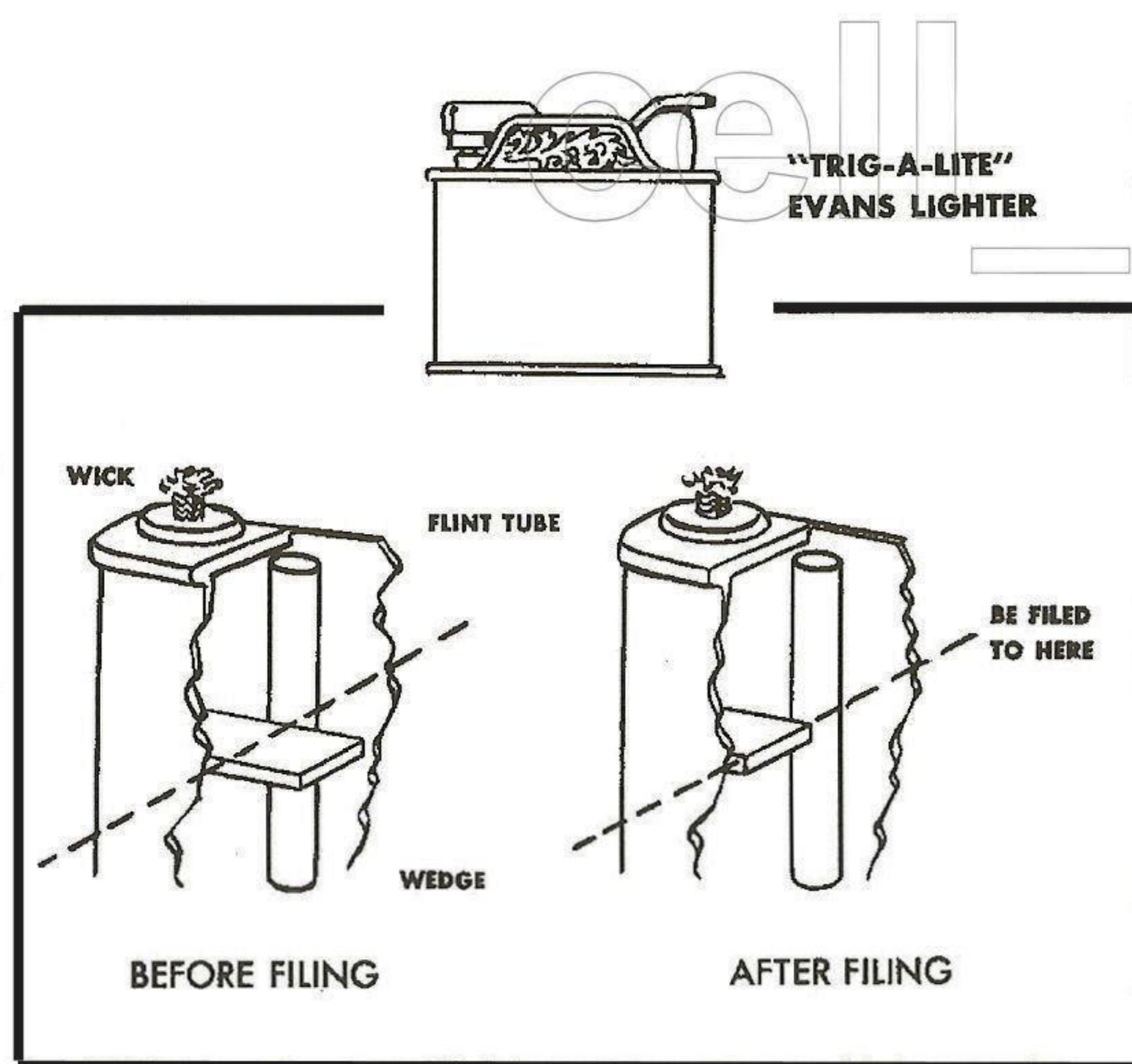
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OLD STYLE "TRIG-A-LITE" EVANS LIGHTER

There is an older model of Evans lighter which was marketed about 1929. This model was referred to as a Trig-a-lite lighter.

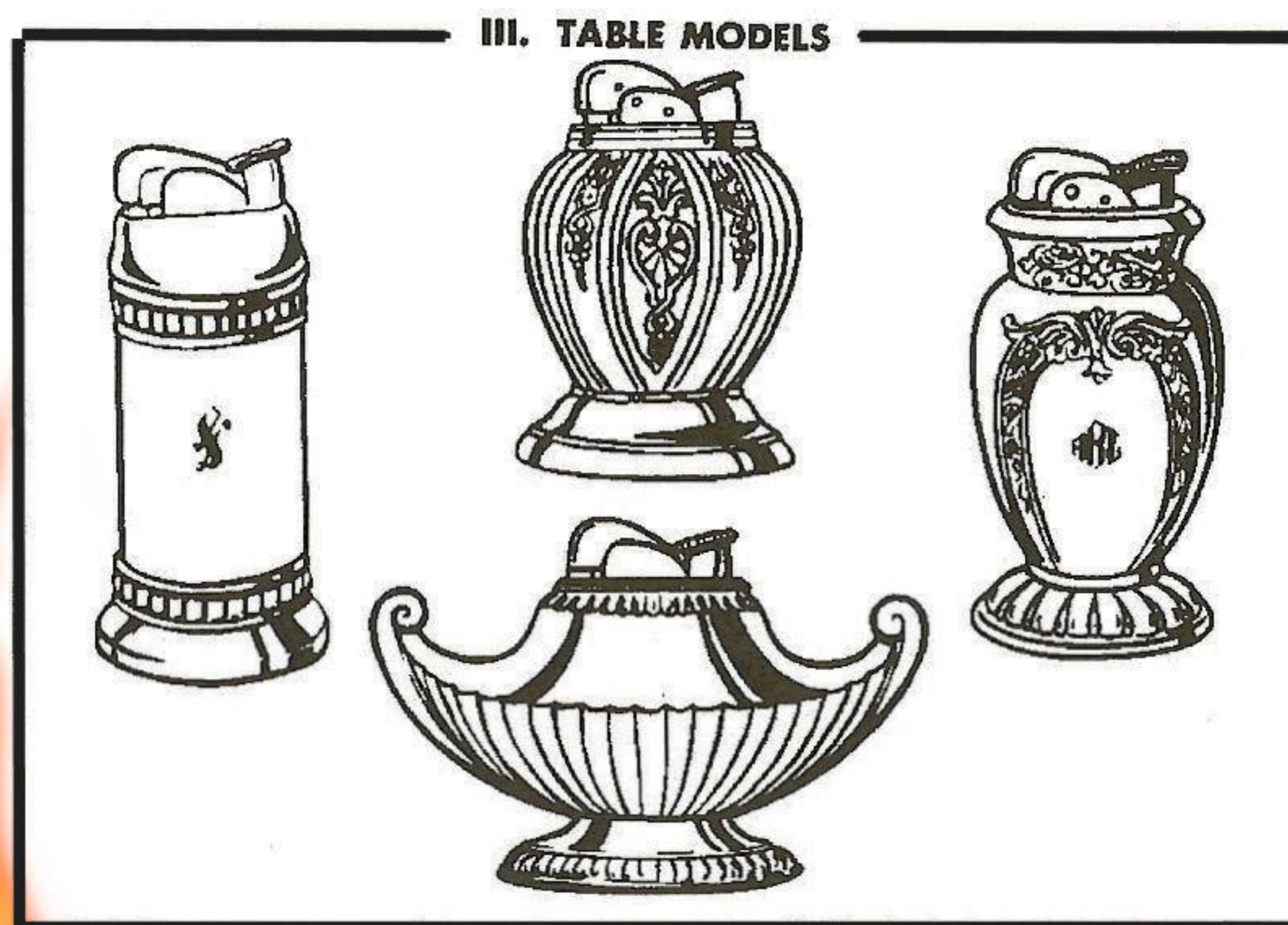
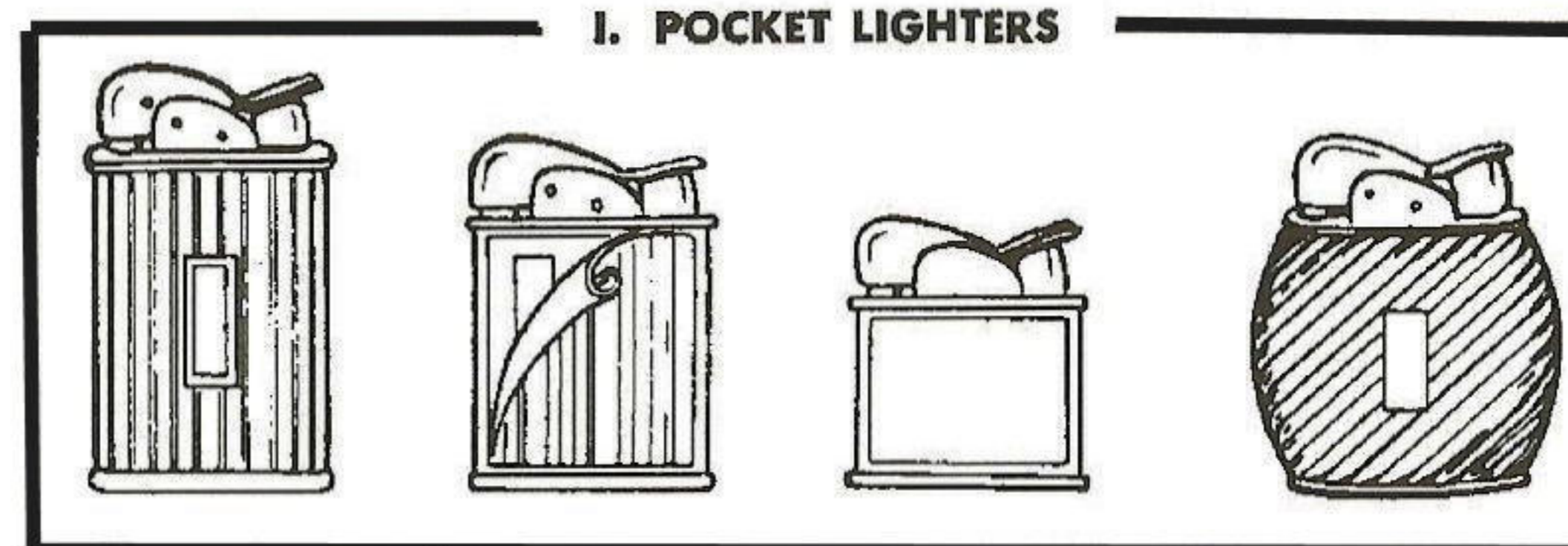
It can be recognized most readily by the flat snuffer and flat thumb lever as pictured below. Very few of the parts for this model are available and we recommend that the entire top unit be replaced with New Style parts.

Some of these Trig-a-lite models have a wedge which was designed to hold flint tube in place. On these models, parts of this wedge must be filed away as illustrated before the New Style parts can be used.



BELOW ARE PICTURED OUTLINE DRAWINGS OF A NUMBER OF THE DIFFERENT STYLES OF EVANS LIGHTERS TO HELP YOU TO RECOGNIZE THEM.

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You Can Add to Your Repair Department by Purchasing Kits of Parts for Other Lighters

★ Each kit contains a complete starting assortment of parts and refills are available.

★ You also get a book of instructions FREE with each kit to help you to understand the disassembly and reassembly of the lighter.

TX-250 Kit of Parts to fit Thorens Lighters contains a complete assortment of parts for all popular Thorens models.

This kit lists at . . . \$41.67

Less 40% discount 16.67

Your cost . . . **\$25.00**
net

And You Get FREE!

- Plastic Storage Chest
- Window Streamers
- REPAIR MANUAL for Thorens Lighters (one to a customer)

AX-250 Kit of Parts to fit A.S.R. Lighters contains a complete assortment of parts for all popular A.S.R. models.

This kit lists at . . . \$41.67

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- REPAIR MANUAL for A.S.R. Lighters One to a customer

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- Set of Basis Instructions on A.S.R. Repairs

Write for information on Wholesale Distributorships

Kits are available in various sizes from \$10.00 to \$1,000 for all popular lighters.

"TINY-KITS" at \$2.50 net are also available for all models of all popular lighters (See page 100 for further information).

Send check in advance.
Save Postage & C.O.D. Fees.

Parts for restocking kits are available from
LIGHTER PARTS, INC., 2 E. Stockton Ave., Pittsburgh 12, Pa.

THORENS LIGHTERS

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In the following pages you will find several drawings showing exploded views of each of the various models of Thorens lighters.

The lighter which you will probably encounter most is the Thorens standard model pictured on page 80.

You will note that throughout the descriptions of Thorens lighters we have referred to Thorens flints. These are special flints which are a little harder than regular flints. The reason we recommend these flints is that the file wheels on most of these lighters are extremely rough cut, and would have a tendency to dig into a softer flint causing the lighter to bind.

There are several models of Thorens lighters which we have not pictured as they are no longer manufactured and parts for them are very difficult to obtain; however, should you have occasion to repair any of these models perhaps you will find the following information helpful:

1. THORENS STANDARD OLD STYLE

This lighter is exactly the same in design as the Thorens Ladies lighter and is disassembled and reassembled in the same manner.

It uses parts that are a little larger than the Ladies lighter parts, and it is about the same size as the New Standard Thorens.

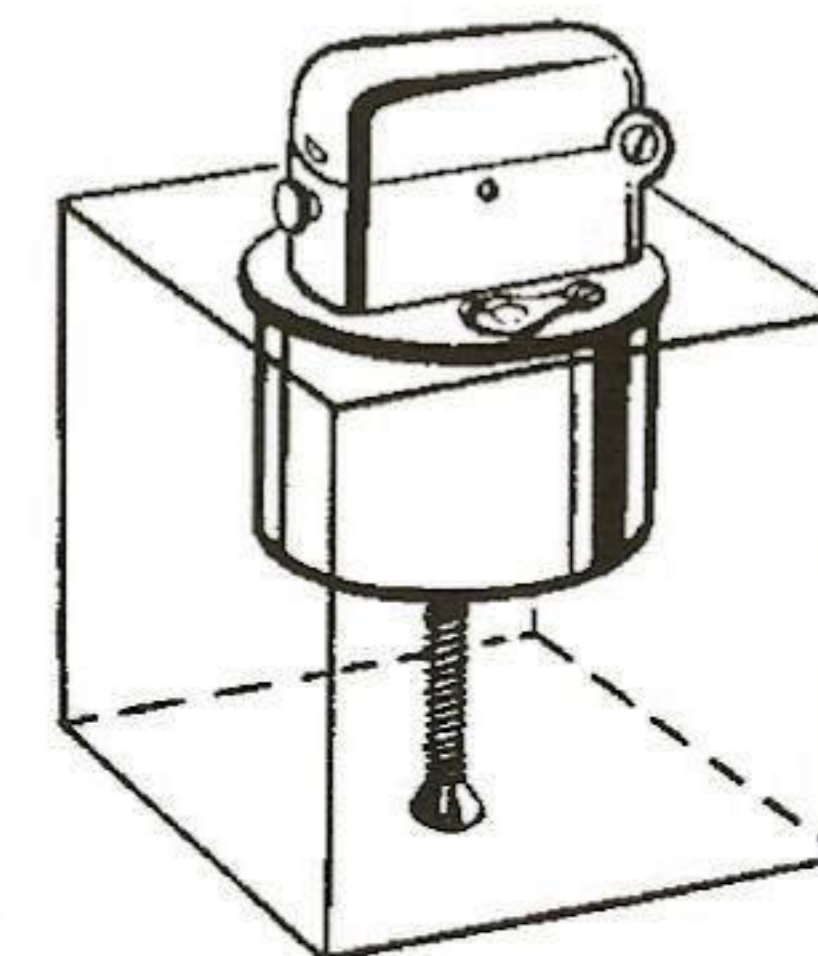
2. THORENS TABLE MODEL

This lighter unit is made up of Standard New Style working parts but the case is attached to a much larger tank (about 1½" high and 2" in diameter)

This is all held together by soft solder.

The entire unit is usually seated in a marble or wood base to which it is attached by a long screw.

As shown in the diagram at right.



We think that you will find most of the drawings of the various models self explanatory, but if there is anything you do not understand drop us a line and we will be glad to try and explain it for you.

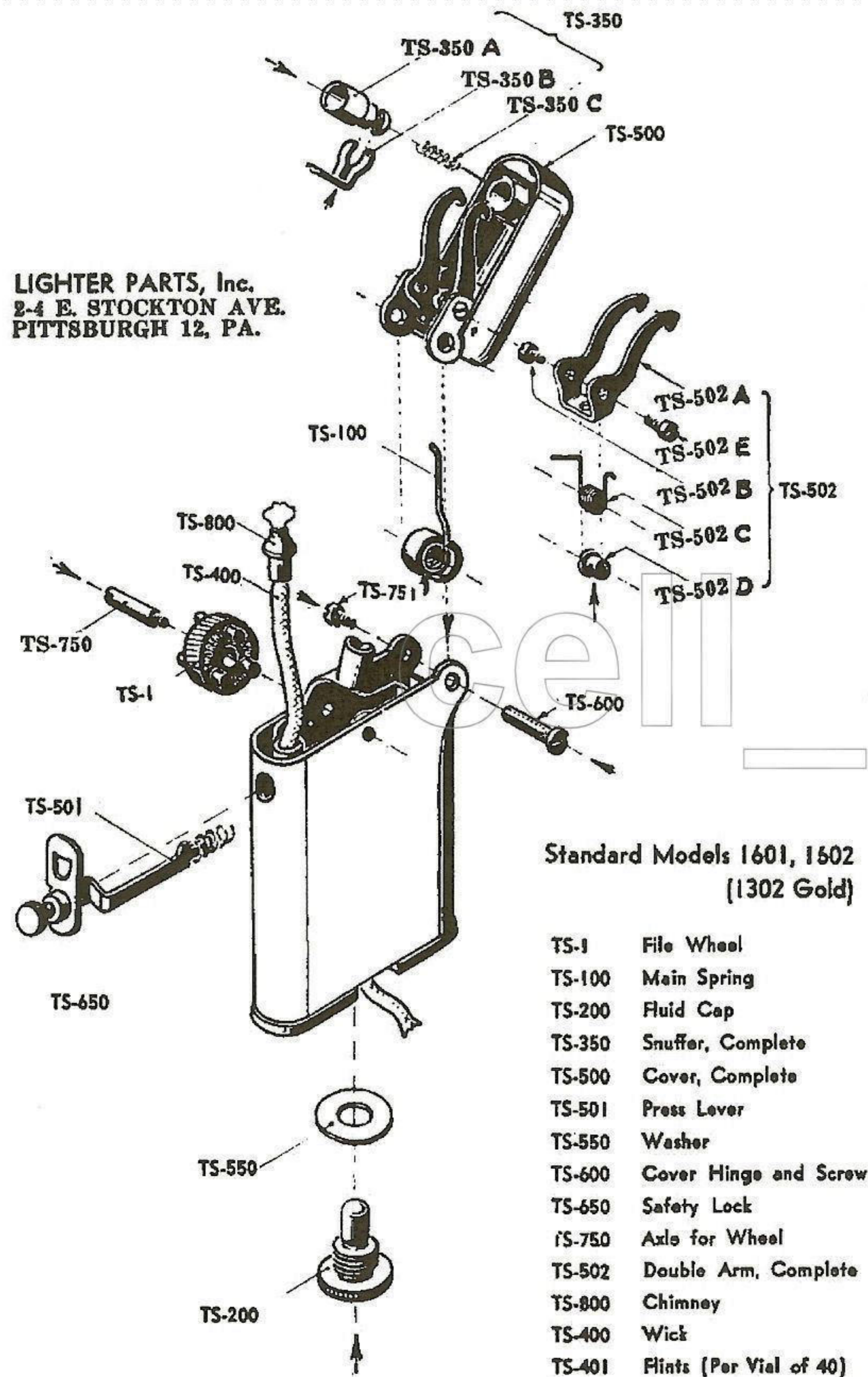
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sonic



THORENS AUTOMATIC LIGHTER MODELS NO. 1601-1602-1302*

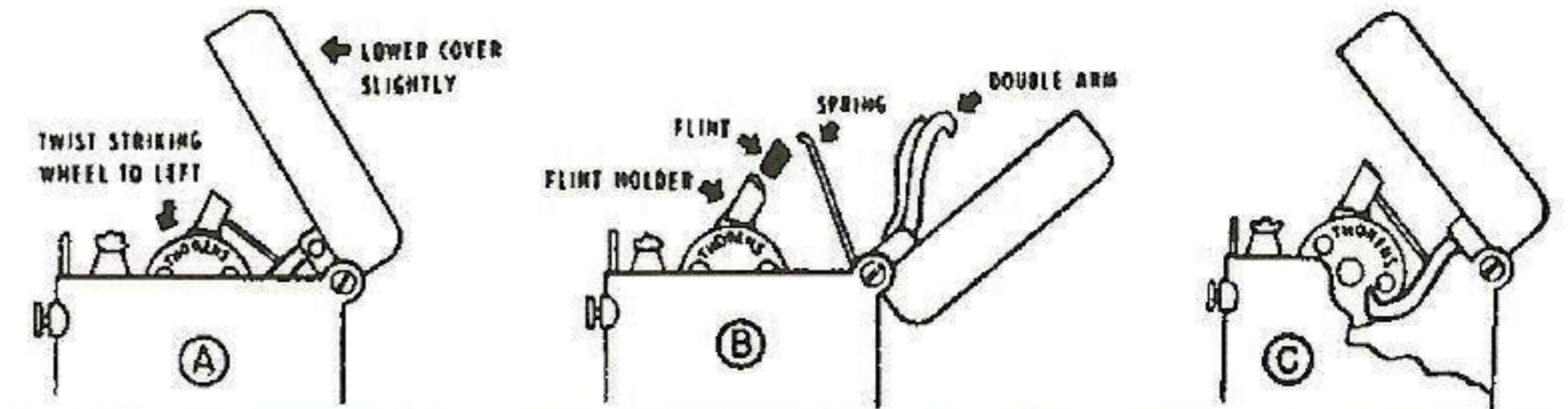
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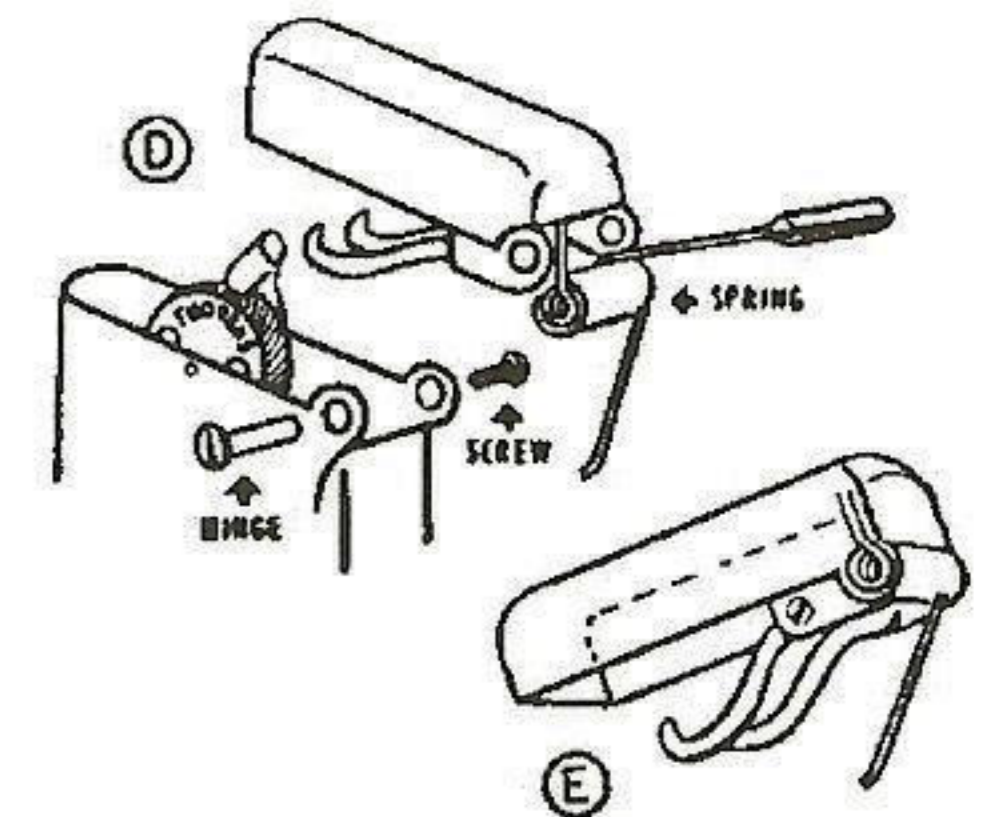
TO REPLACE FLINTS

1. Holding lighter in your left hand, lower cover partially as in illustration (A).
2. At the same time, with key, screw driver or similar instrument, slightly twist flint wheel to the left and release cover. Spring and double arm will snap free as shown in illustration (B).
3. Shake out old flint and drop new flint in holder as in illustration (B).
4. Place spring on top of flint, bring double arm all the way down as shown in illustration (C) and close cover.



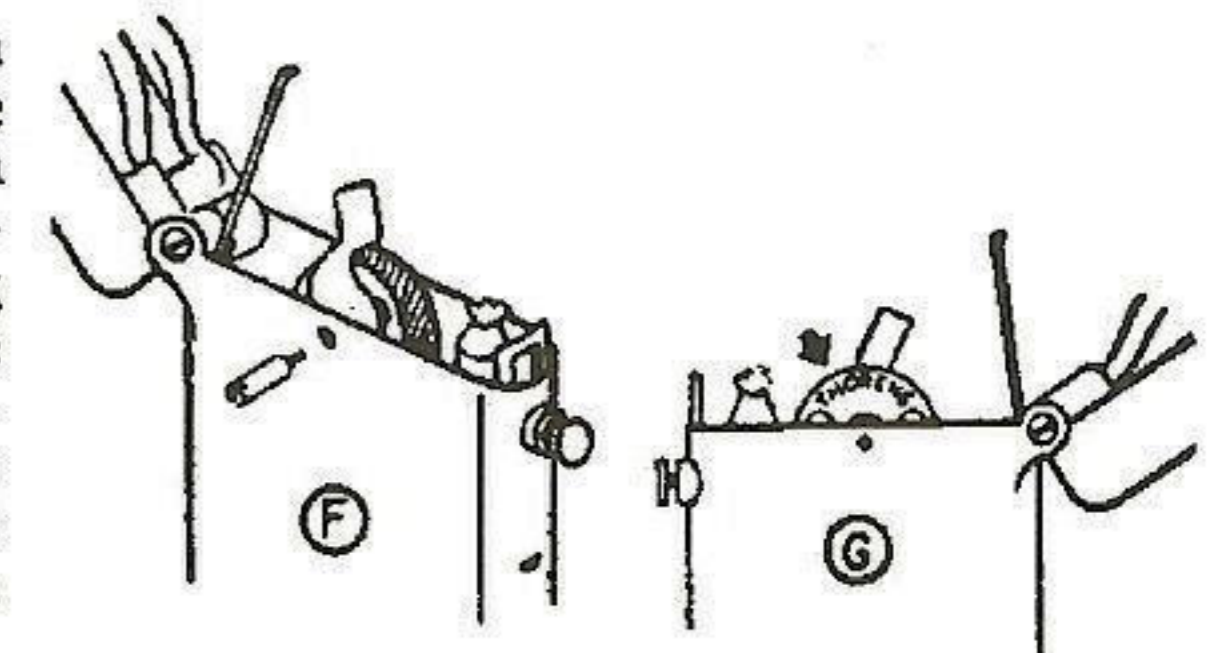
CHANGING SPRING

Release spring and arm as shown in shown in illustration (A and B). This is the same procedure as changing flint. Then unscrew cover hinge with small screw driver and remove old spring with screw driver as shown in illustration (D). Insert new spring directly under back of cover as shown in illustrations (D and E). Replace hinge and screw. Bring double arm all the way down as shown in illustration (C) and close cover.

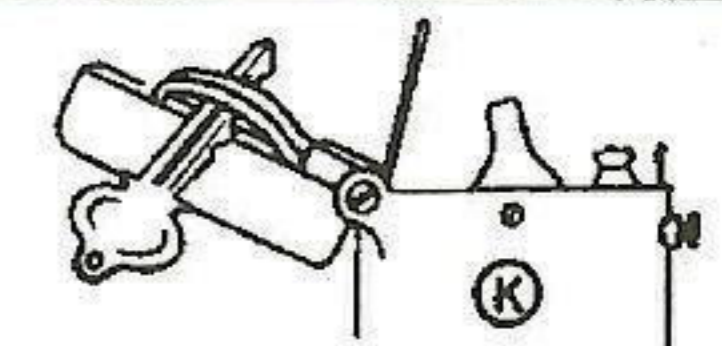


TO REPLACE STRIKING WHEEL

Release spring and arm as shown in illustrations (A and B). Remove the axle screw of striking wheel with screw driver as shown in illustration (F). Shake out the old striking wheel and flint. When putting in the new wheel, it is important that printing on the wheel shall be visible as shown in illustration (G). Replace axle screw and close cover as shown in illustration (C).



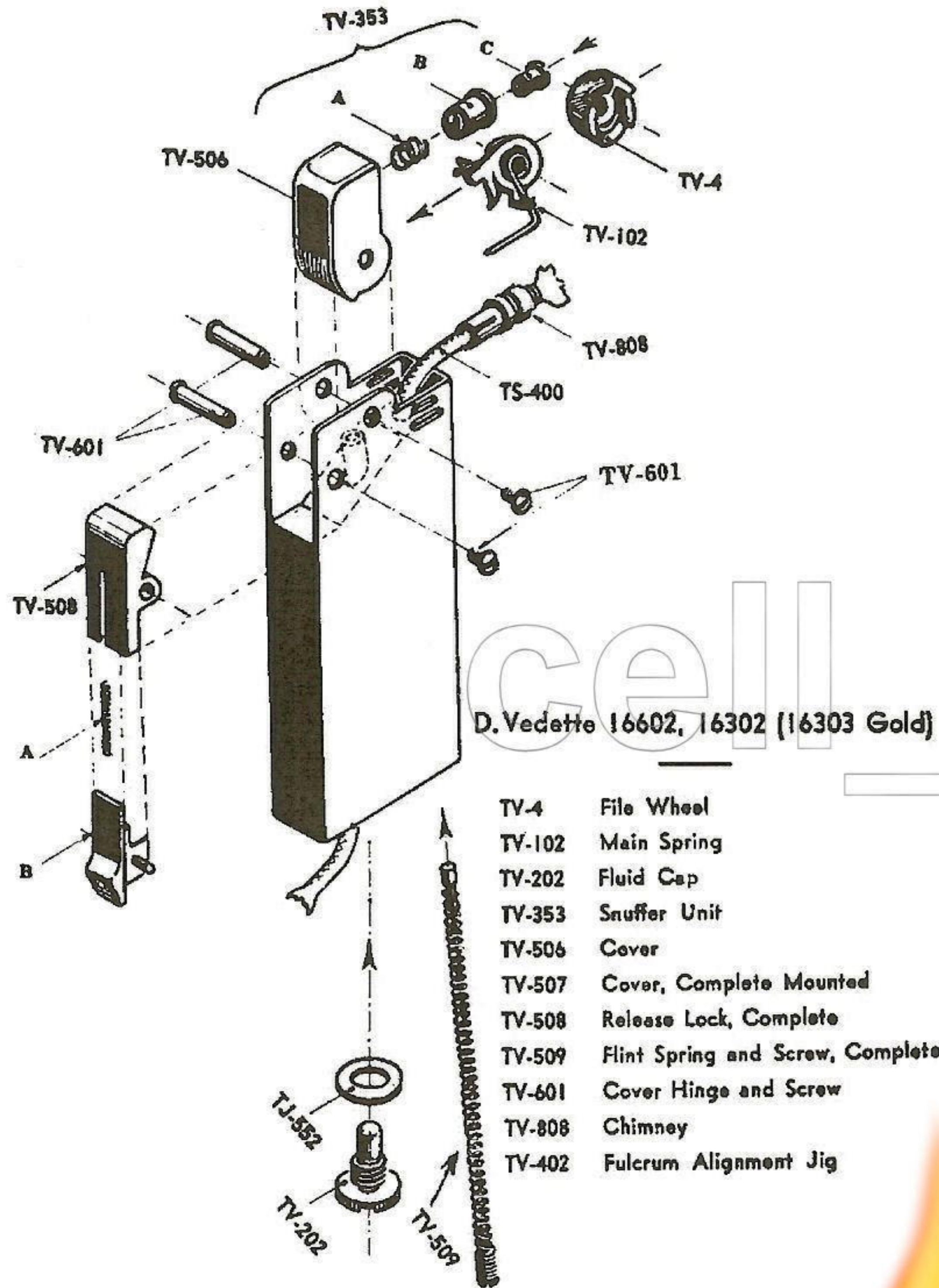
If arm gets stuck in cover of lighter, pry loose with key or similar object, as shown in illustration (K) and close cover as in illustration (C).



NOTE: TO REPLACE WICK, SEE

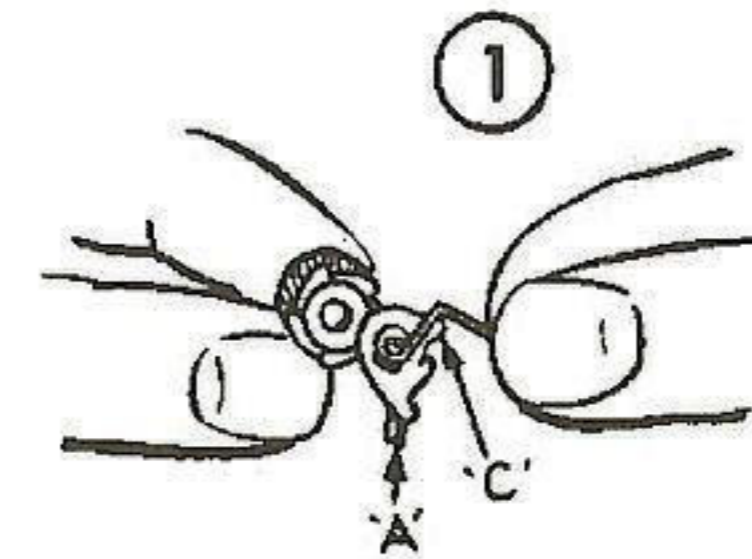
DIAGRAM ON OPPOSITE PAGE

THORENS Automatic Lighter "VEDETTE"

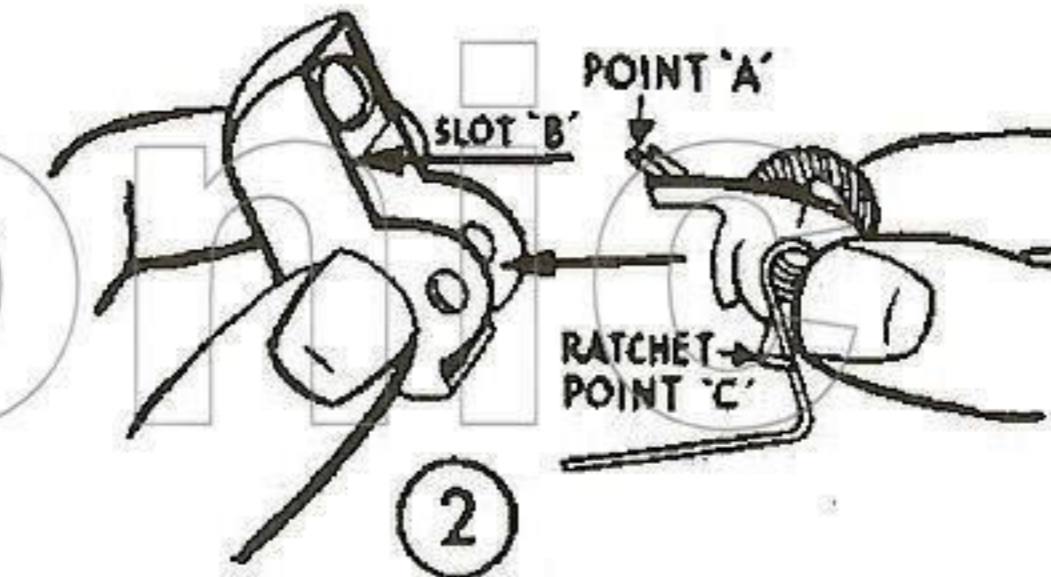


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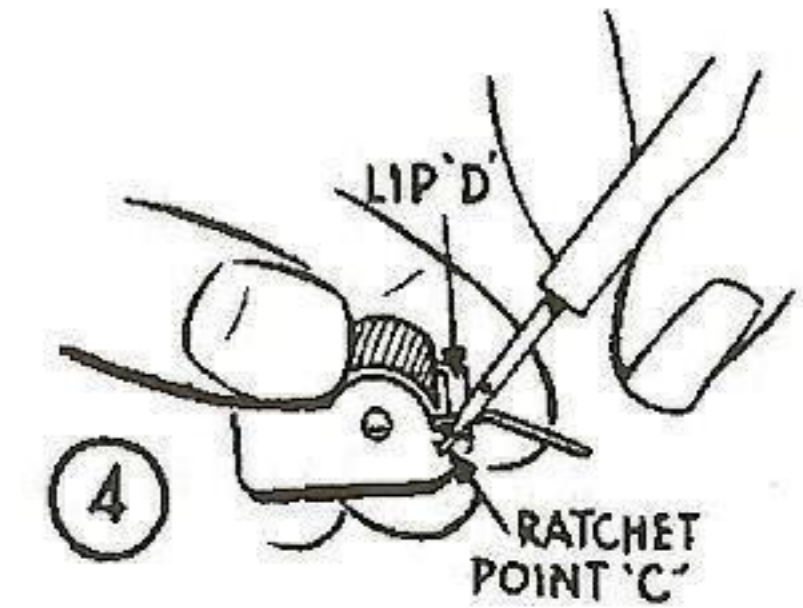
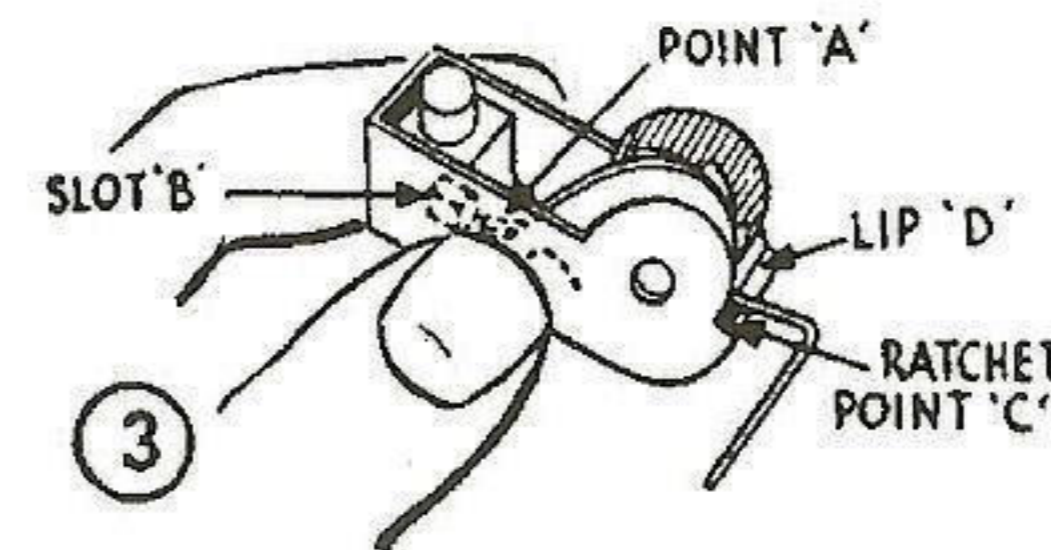
MOUNTING OF SPRING AND WHEEL IN COVER



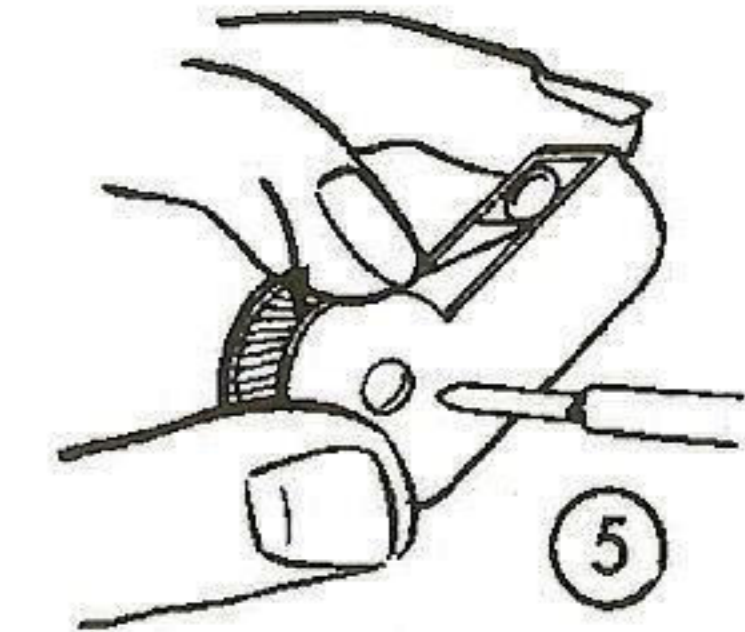
Insert spring into flint wheel as in illustration (1).



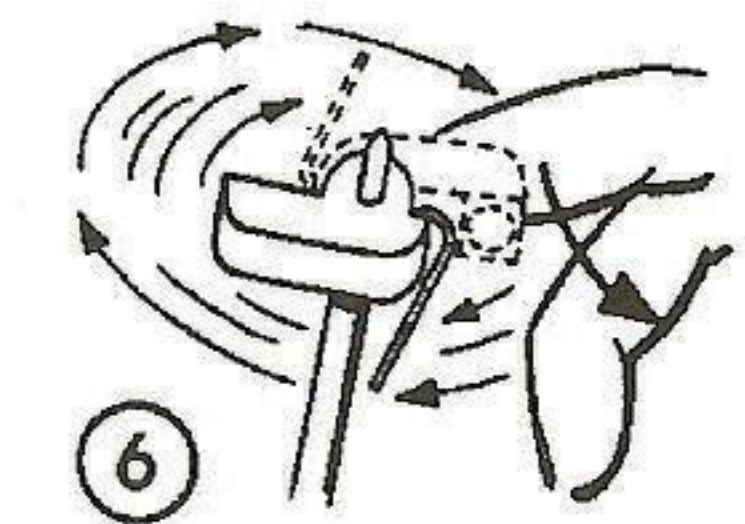
Then insert this unit into cover as shown in illustration (2). Be sure that point A is pressed into slot B as far as possible, as shown in illustration (3).



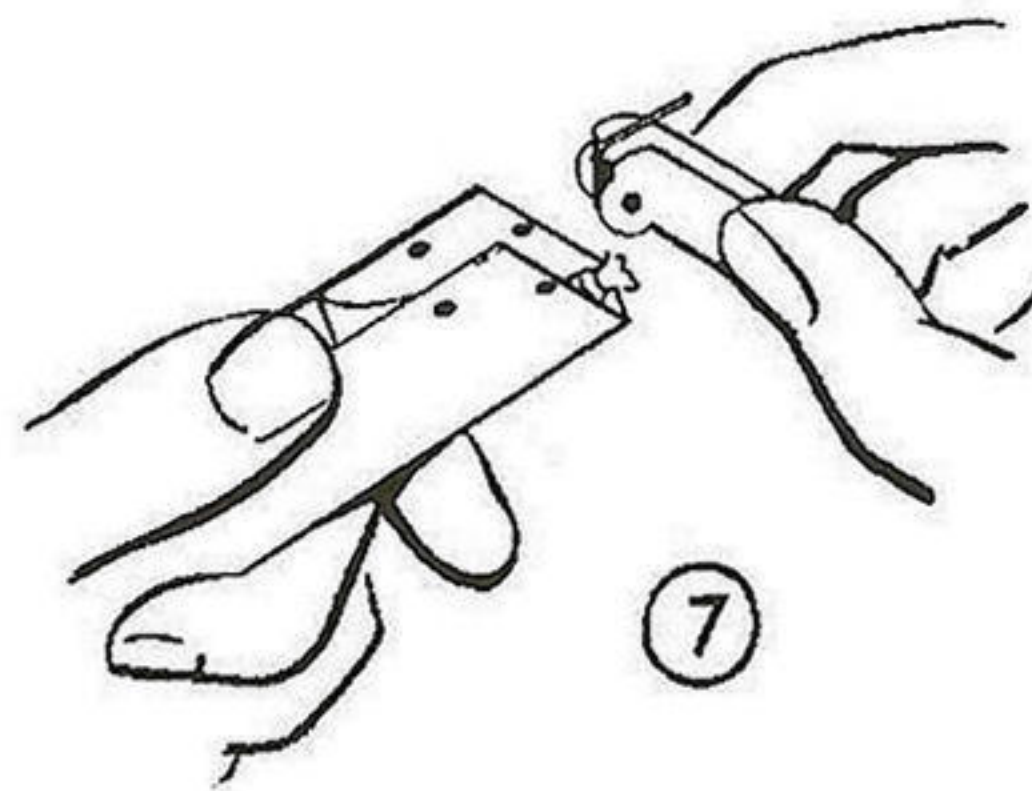
Holding cover unit in left hand, push spring up with index finger and at the same time press wheel down with thumb and press ratchet point C with small screwdriver under lip D of cover. See illustration (4).



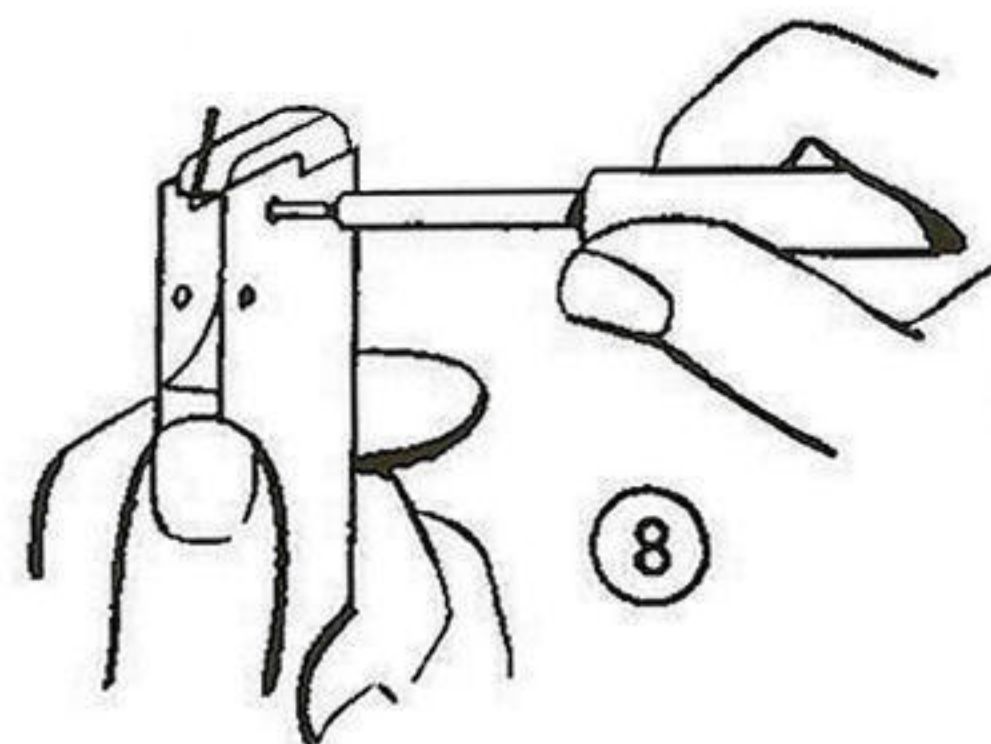
Place screwdriver or pin through center hole of cover, see illustration (5), whirl cover, see illustration (6). This operation insures centering of wheel.



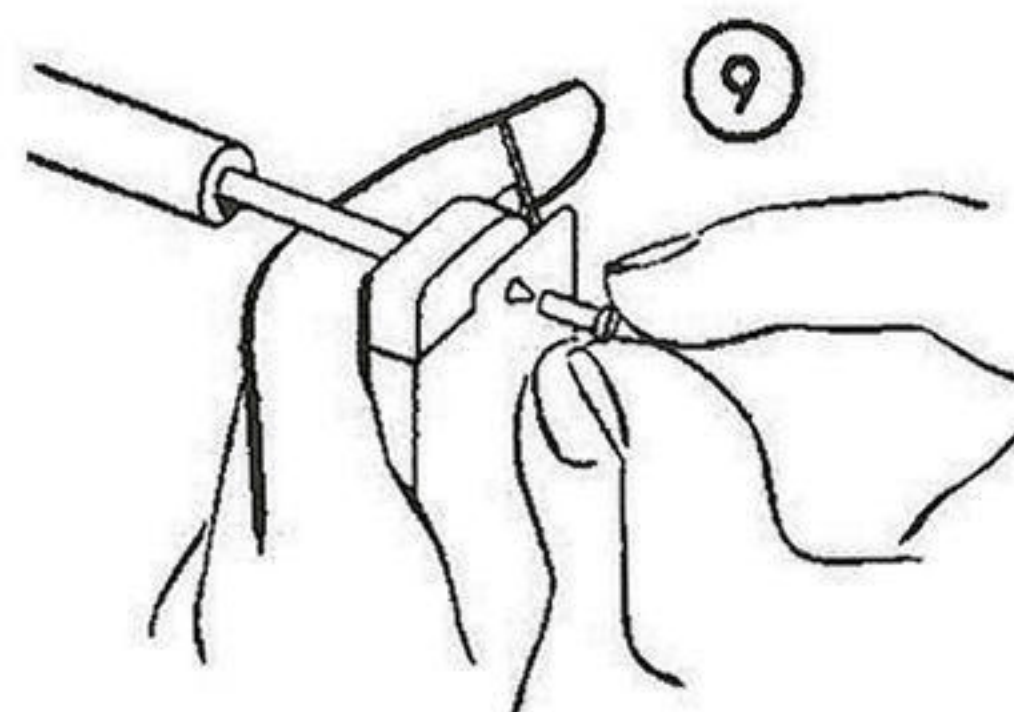
MOUNTING COVER INTO LIGHTER



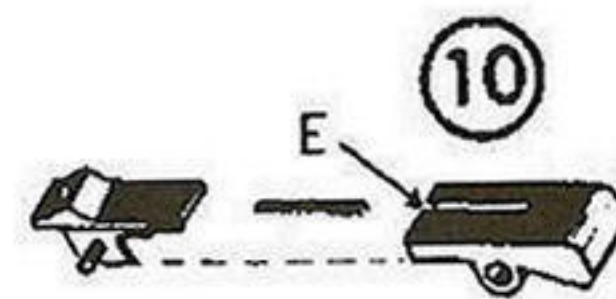
Insert complete cover unit into base of lighter as in illustration (7)



Place pin through base and cover as in illustration (8). Then as shown in illustration (9), push hinge all the way in, forcing pin out at the same time. Then tighten strongly with small screw.

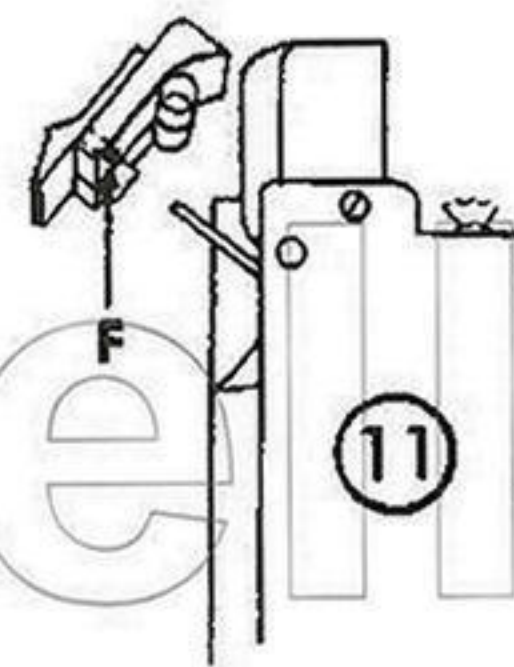


MOUNTING AUTOMATIC RELEASE LOCK

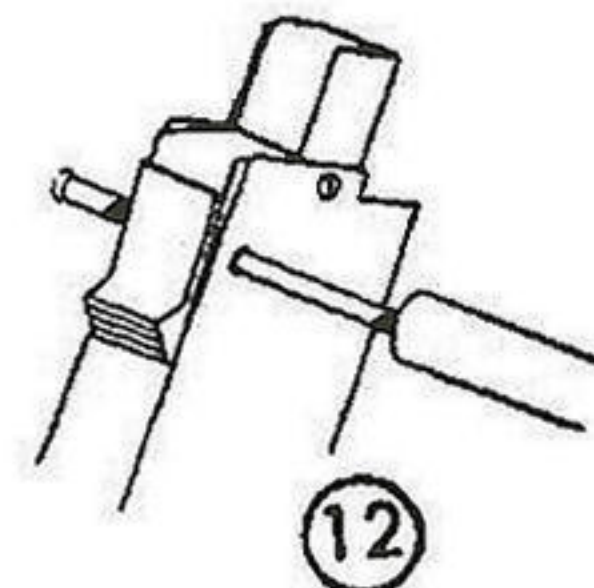


As shown in illustration (10), insert spring in center slot E.

Slip release lever into same slot E. Spring action should work freely.



With end of spring in small hole F of lock [illustration (11)] push lock into base until holes line up and hold in place with pin. Then push hinge all the way in, forcing pin out at same time as in illustration (12). Then tighten strongly with small screw.



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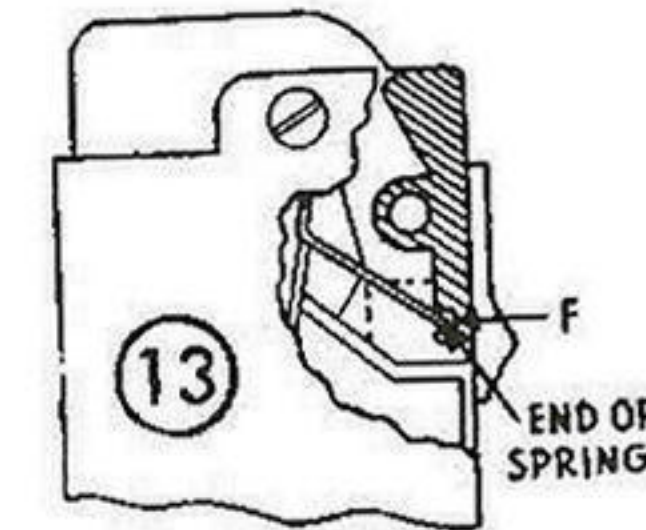


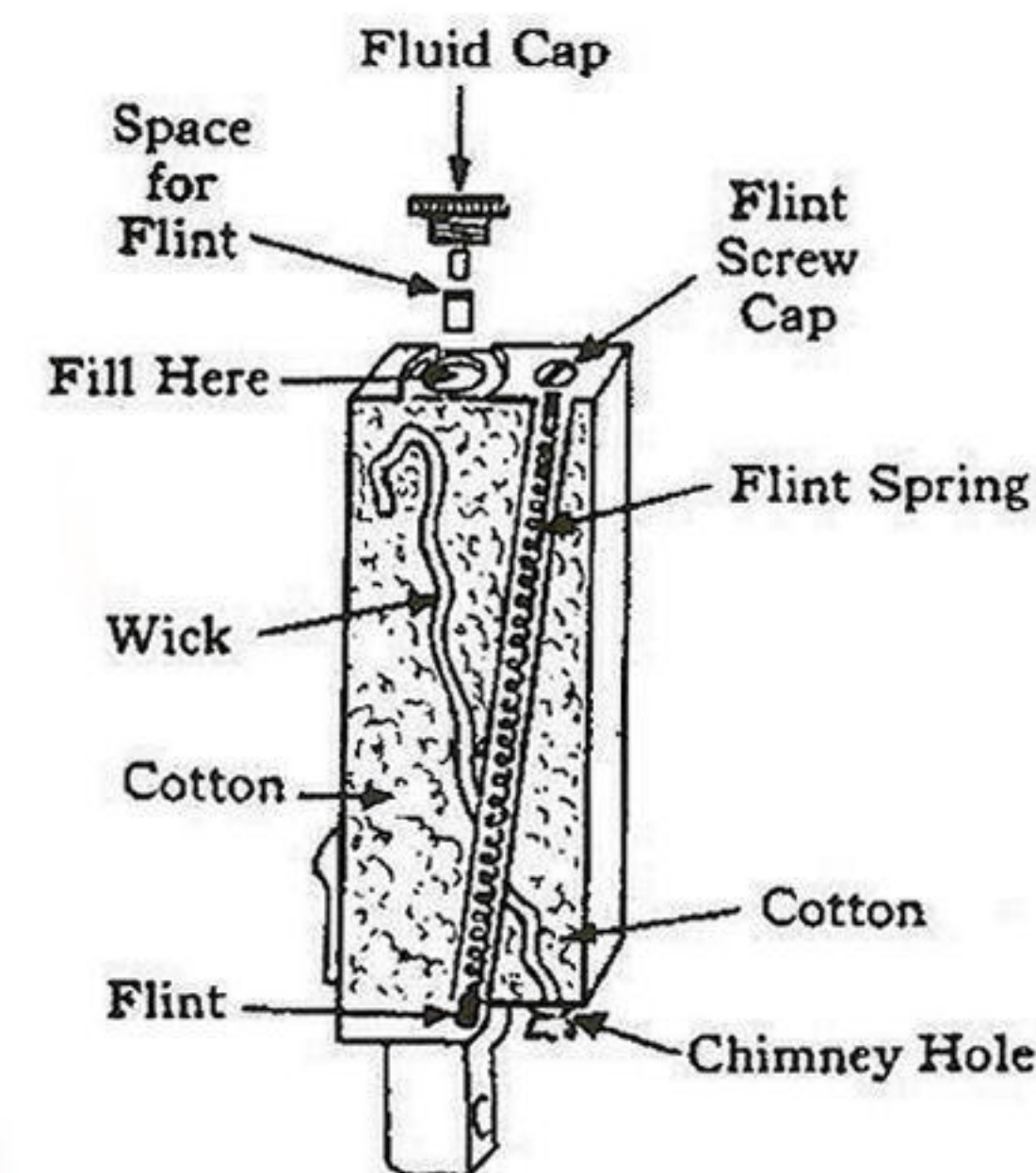
Illustration (13) shows cross section view of automatic release lock completely mounted.

TO FILL LIGHTERS

Unscrew fluid cap with any small coin as shown in illustration (14) and fill carefully. Shake out all excess fuel. Close fuel chamber tightly with coin and wipe lighter with soft cloth. Fill your lighters, regularly, using only special lighting fluids. Do not use substitutes.

Note space for extra flint inside fluid cap.

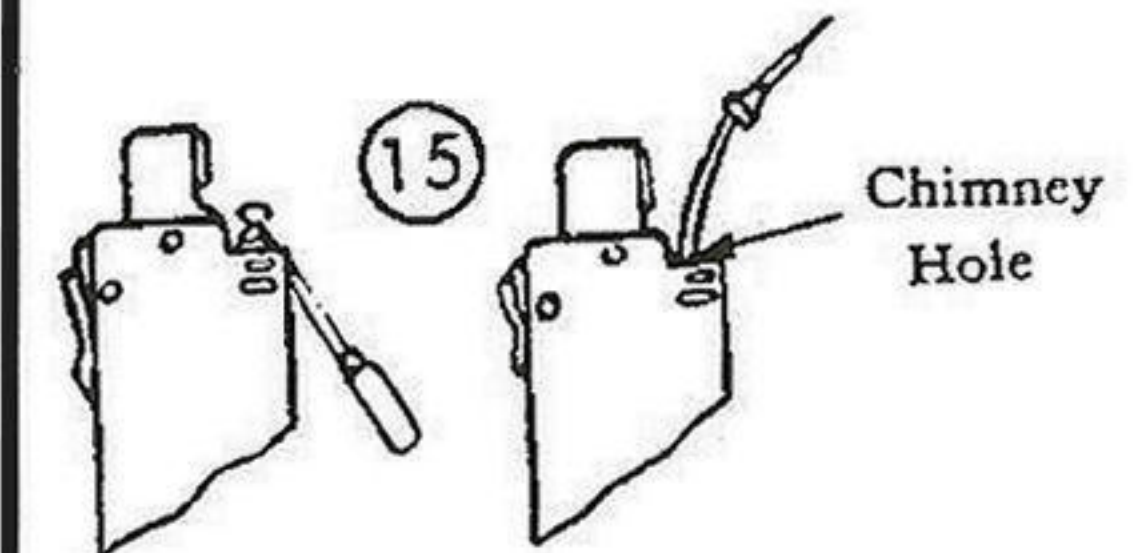
14



Cotton should occupy all inside space, especially around wick chimney.

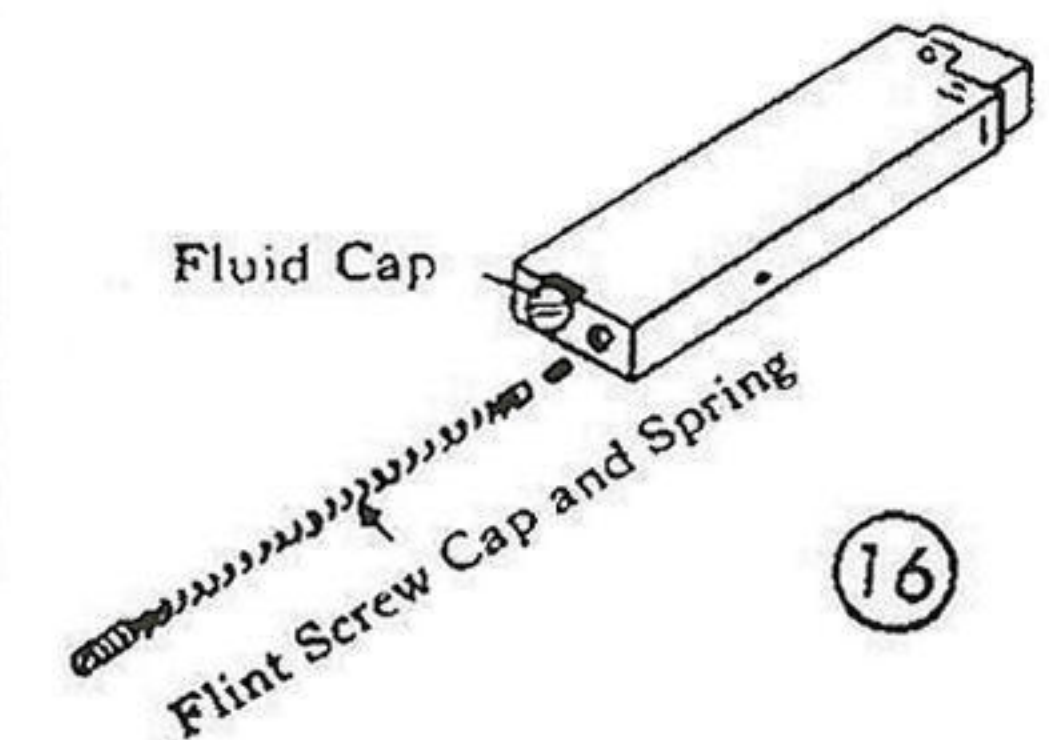
TO REPLACE WICK

Pry up chimney with small screw driver as shown in illustration (15). Unscrew fluid cap and remove all cotton and old wick. Insert new Thorens wick with long wire making certain that end of wick reaches to bottom of lighter and put back the cotton. Thread other end through chimney and press back in place. Trim off frayed edges and wire. Put a little cotton in chimney hole, before replacing wick.



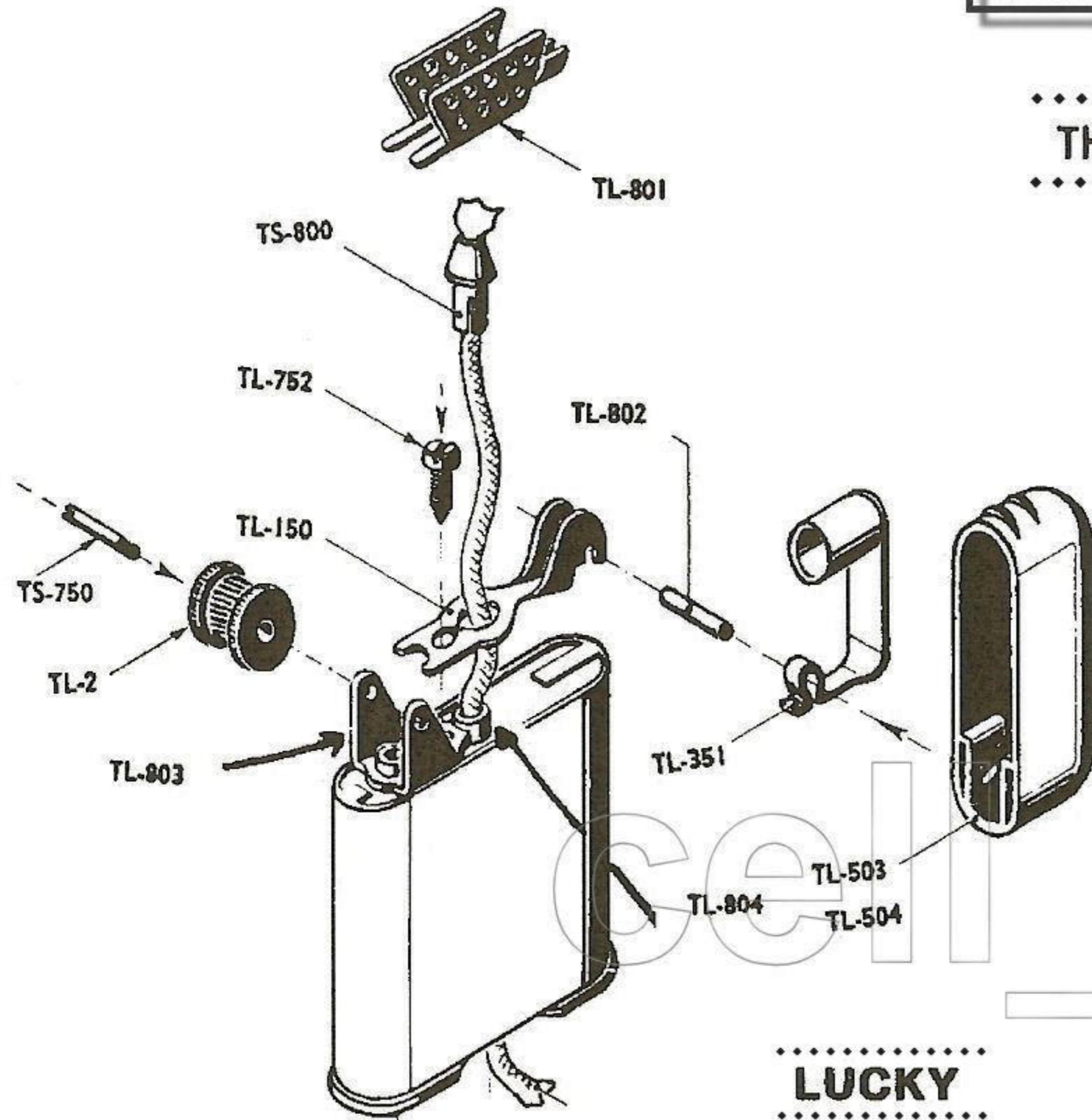
TO REPLACE FLINT

Remove flint screw cap and spring (indicated by arrow) and drop out old flint. Insert new flint into passage as shown in illustration (16). Replace spring and screw cap but do not tighten till you have operated lighter several times to smooth off rough edges of spark metal for easier operation and to relieve strain on working parts.



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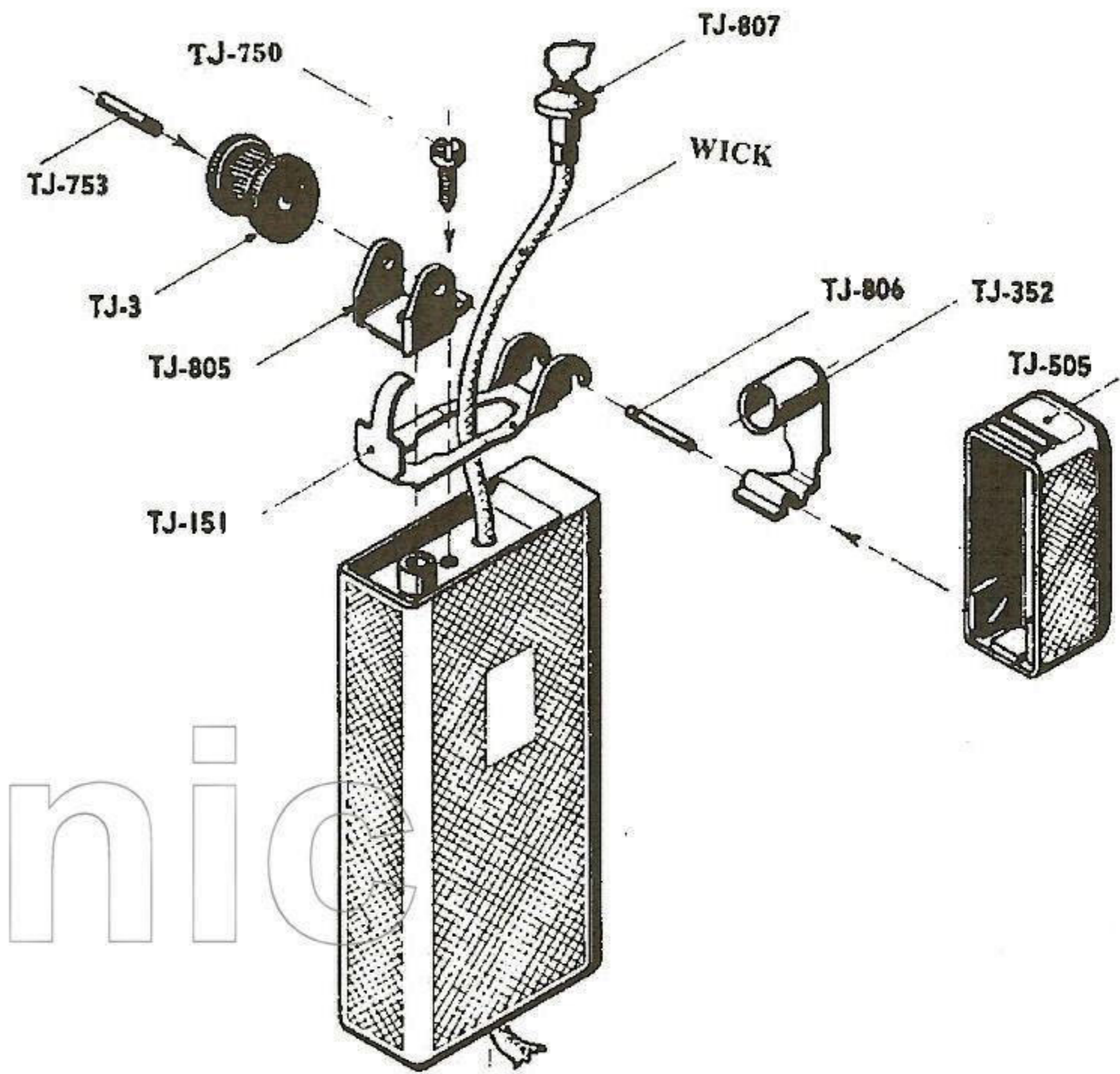
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THORENS
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LUCKY
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No. 7800 & 7602 Chrome Finish
No. 7302 & 7308 Gold Plated

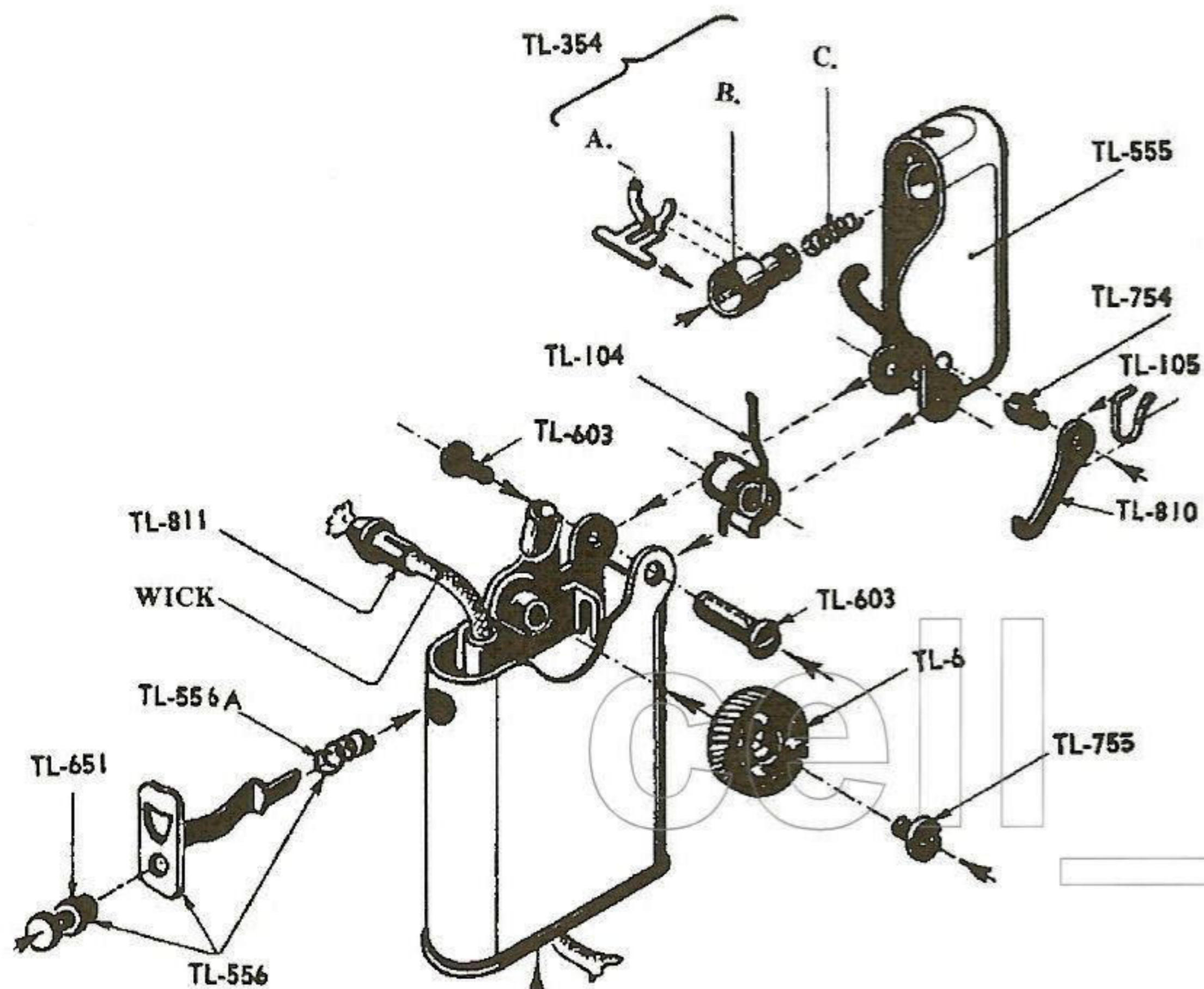
- | | |
|--------|--------------------------|
| TL-2 | File Wheel |
| TL-150 | Main Spring |
| TL-201 | Fluid Cap |
| TL-351 | Snuffer |
| TL-502 | Tension Spring and Screw |
| TL-503 | Cover, Plain |
| TL-504 | Cover, Engraved |
| TL-551 | Washer |
| TL-751 | Axle for Striking Wheel |
| TL-752 | Screw for Main Spring |
| TL-801 | Windguard |
| TL-802 | Axle for Snuffer |
| TL-803 | Bracket Frame for Wheel |
| TL-804 | Tube Holder for Chimney |



C. Jubile 18602 (18302 Gold)

- | | |
|--------|-------------------------|
| TJ-3 | File Wheel |
| TJ-101 | Flint Spring |
| TJ-151 | Main Spring |
| TJ-250 | Flint Screw |
| TJ-352 | Snuffer |
| TJ-505 | Cover |
| TJ-552 | Washer |
| TJ-753 | Axle Screw for Wheel |
| TJ-805 | Bracket Frame for Wheel |
| TJ-806 | Axle for Snuffer |
| TJ-807 | Chimney |

THORENS AUTOMATIC LIGHTERS No. 2001-2002
Model "LADY"

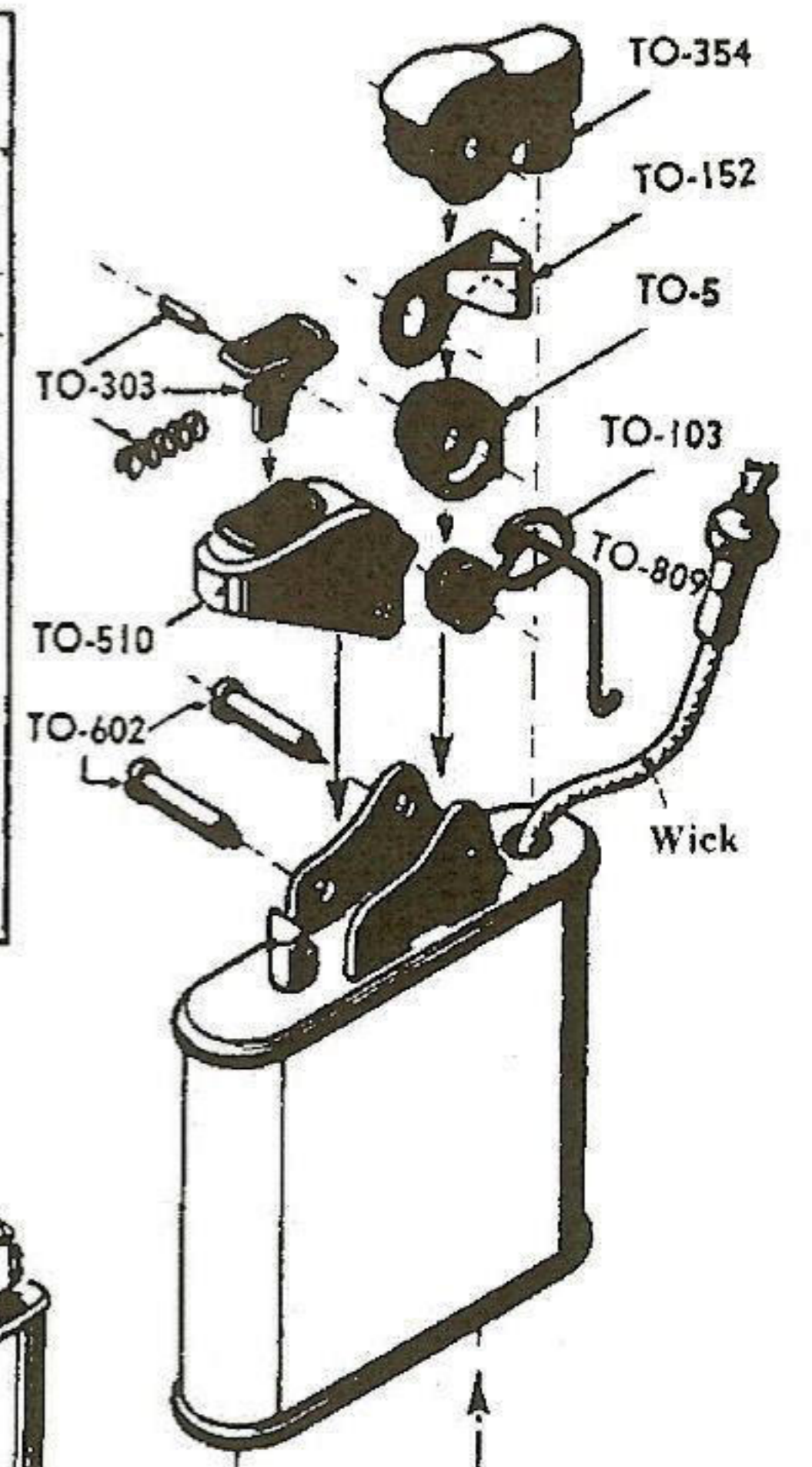


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Parts are same for ORIFLAM & SPORT

E. Oriflam	
TO-354	Cover
TO-809	Chimney
TO-152	Clutch
TO-602	Fulcrum
TO-303	Release Lock, Complete
TO-5	File Wheel
TO-103	Main Spring
TO-510	Release Lever, Complete
TO-553	Washer
TO-554	Flint Spring and Screw
TO-203	Fluid Cap
TO-403	Jig for Mounting Springs

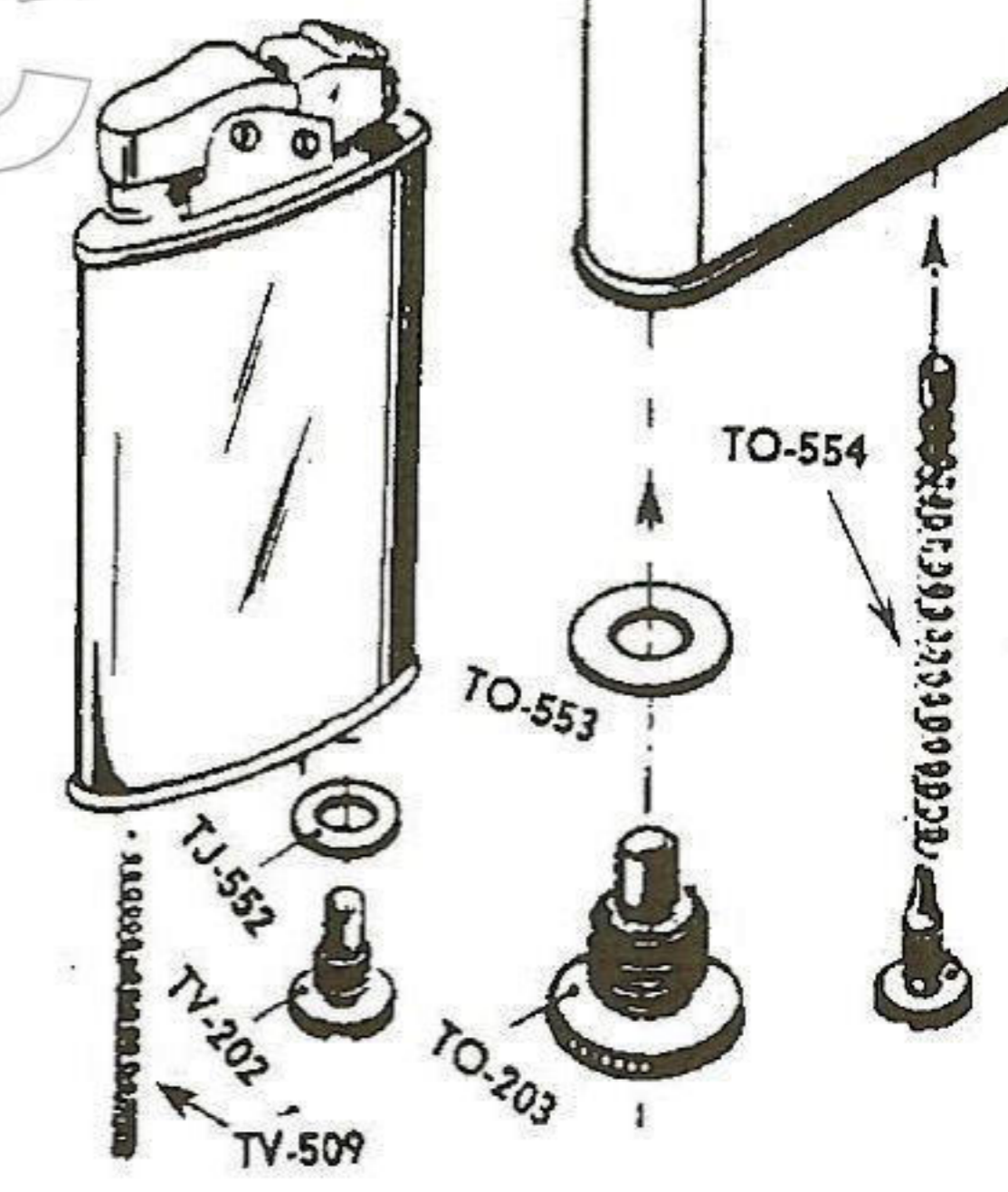
Please Order by Part Number

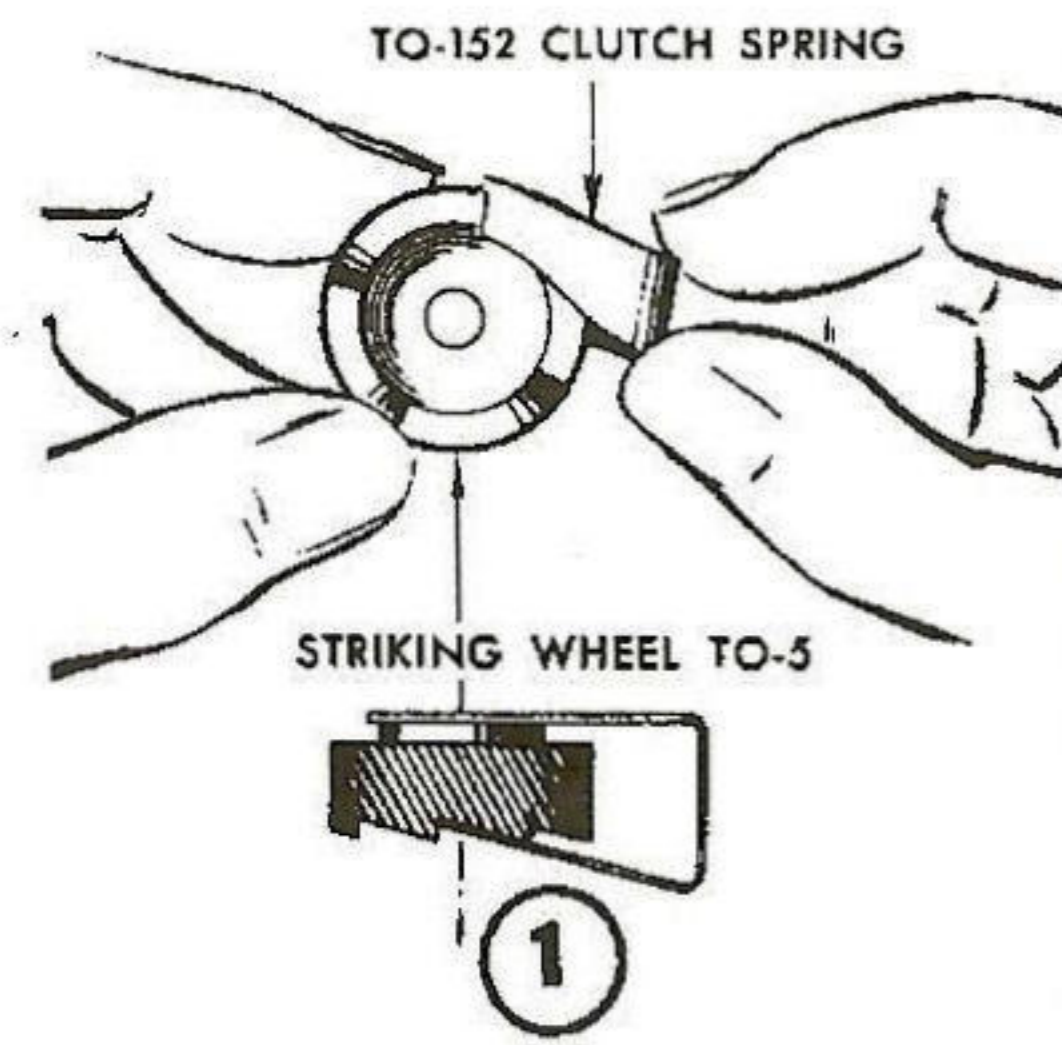


F. Ladies' Lighter 2000

- TL-554 Washer
- TL-204 Fluid Cap
- TL-555 Cover, Complete
- TL-556 Press Lever, Complete
- TL-651 Safety Lock
- TL-754 Arm Screw
- TL-104 Main Spring
- TL-810 Arm
- TL-603 Cover Hinge and Screw
- TL-811 Chimney
- TL-6 TL-6 File Wheel
- TL-755 Striking Wheel Screw
- TL-105 Arm Spring
- TL-554 Washer
- TL-354 Snuffer, Complete

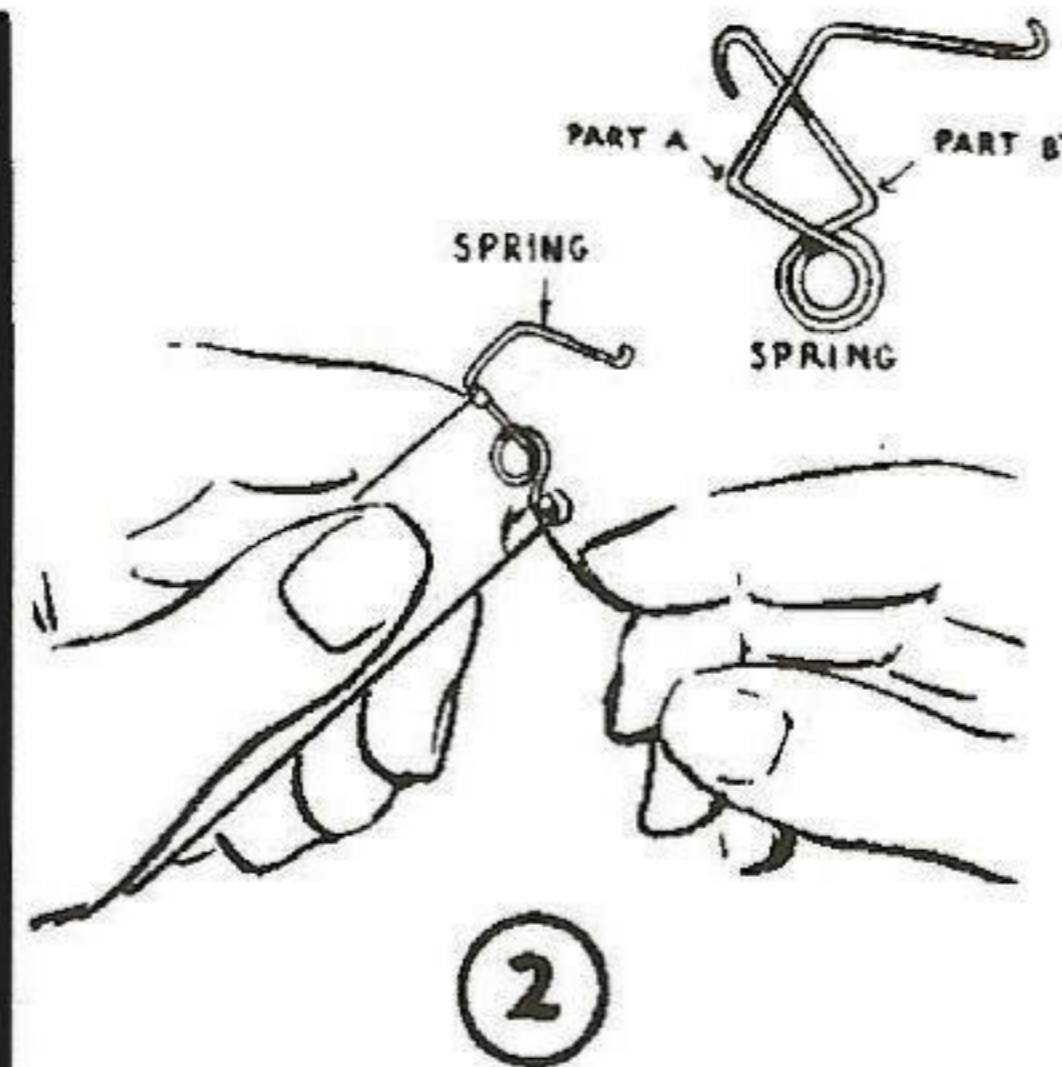
TO-403 JIG FOR MOUNTING SPRING





MOUNTING OF TO-152 CLUTCH SPRING ON STRIKING WHEEL TO-5

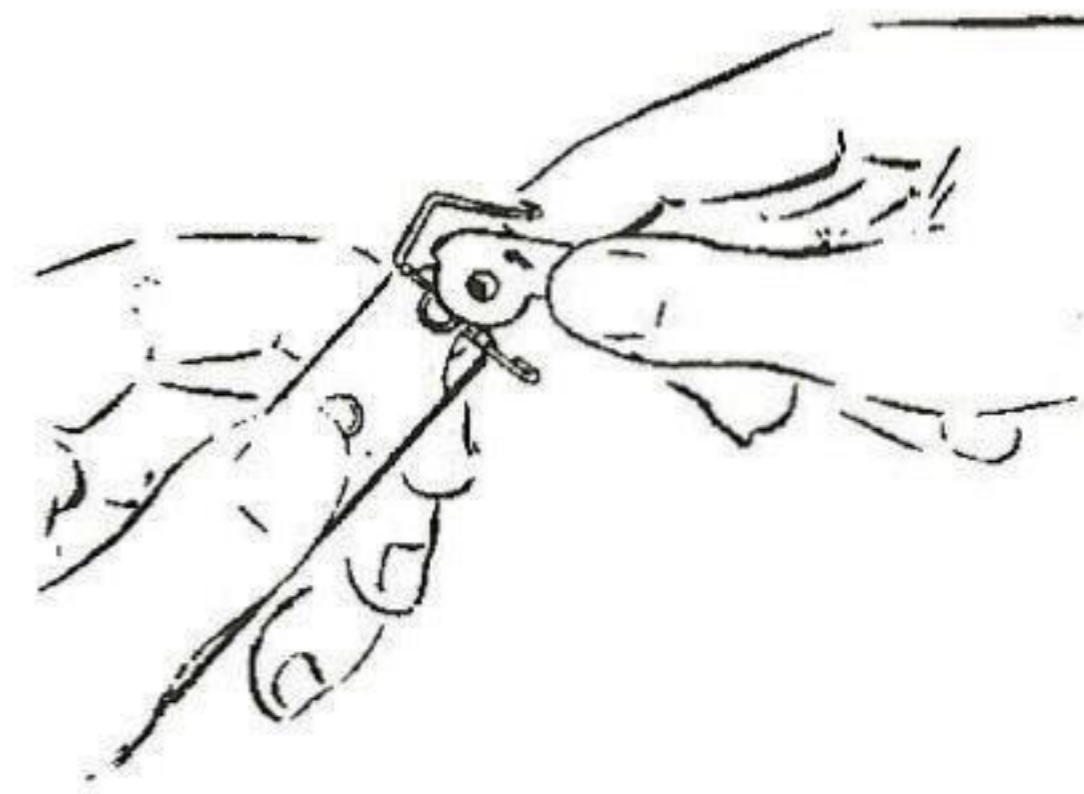
Ratchet should fit snugly against notch at top of wheel.



MOUNTING OF TO-103 MAIN SPRING ON JIG

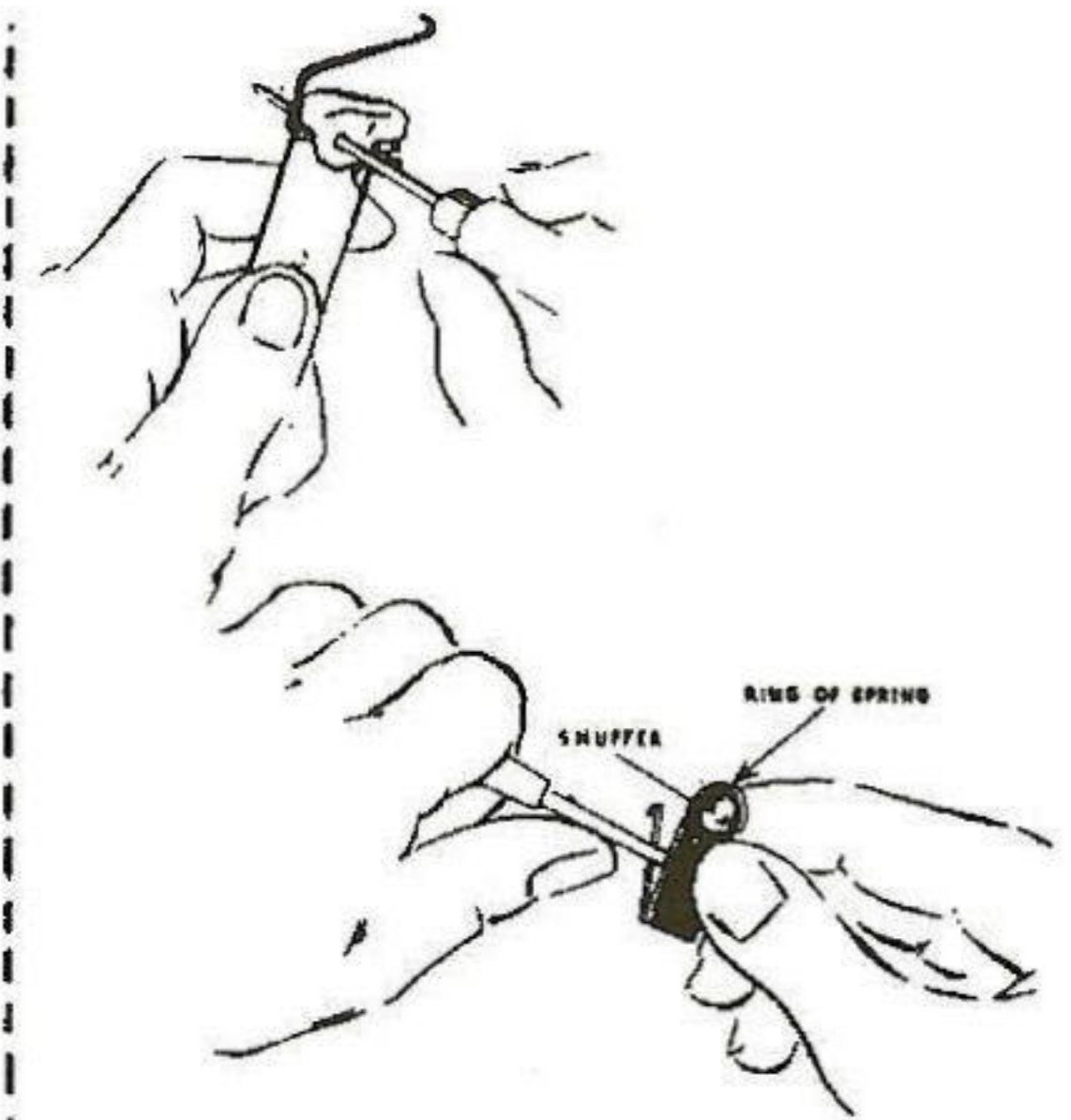
Hang part A of spring on left hook, part B of spring on right hook of the jig. See illustration for exact position of mounted spring.

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MOUNTING OF COVER TO-354 TO SPRING AND WHEEL

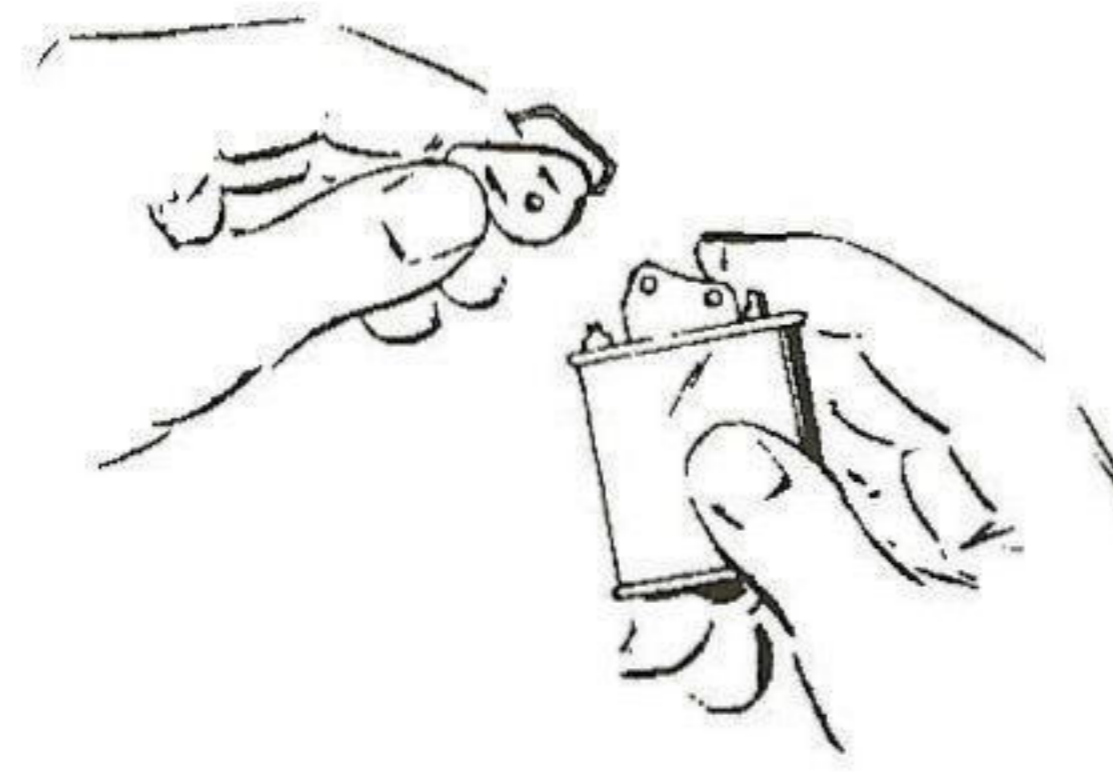
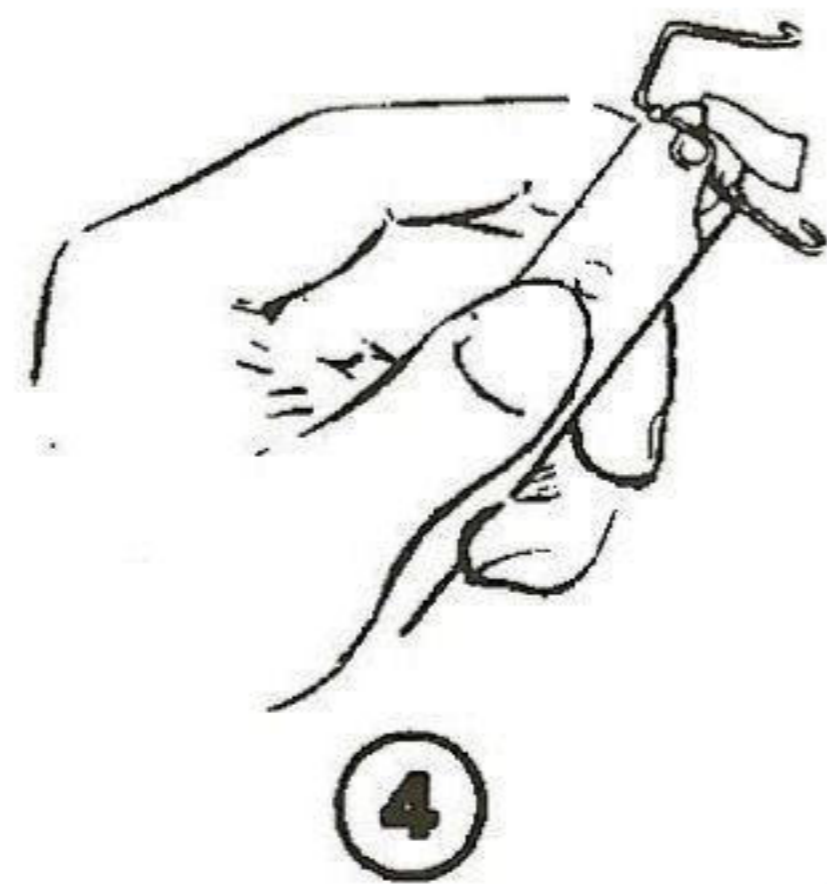
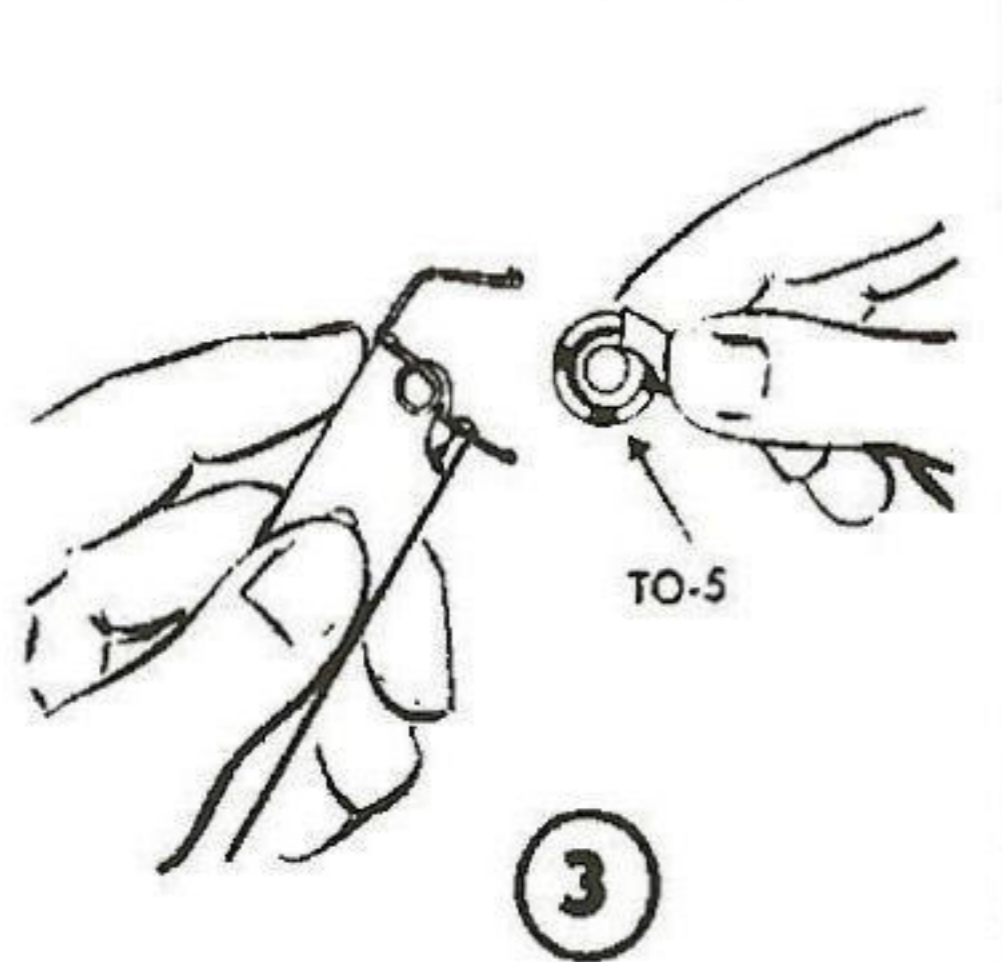
See that ratchet is in exact position as shown in illustration 4. This enables cover to slide smoothly into position. See that ratchet nestles in slot of cover.



Line up holes with screwdriver, and with screwdriver through holes disengage jig. Snap the ring of spring over snuffer of the cover, and cover is ready for mounting on base of lighter. See illustration 6A & 6.

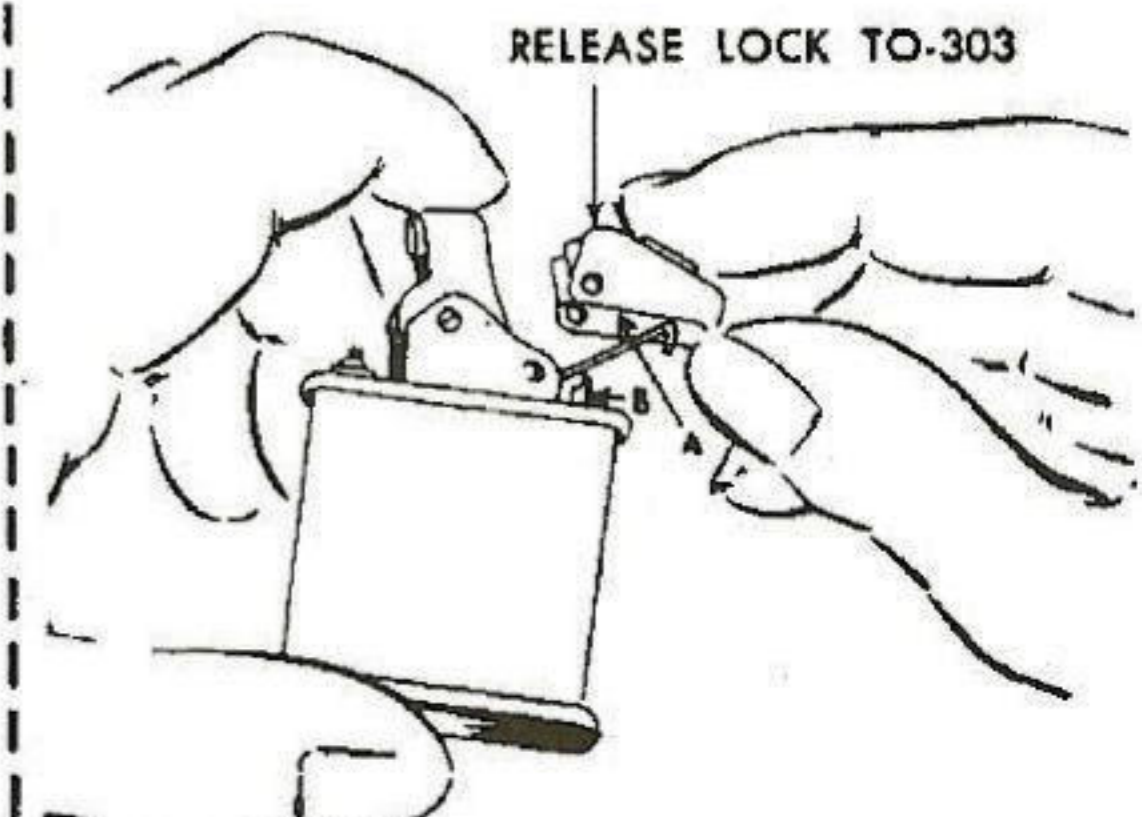
MOUNTING OF WHEEL TO-5

Place wheel with ratchet on mounted spring as shown in illustrations 3 and 4.



MOUNTING COVER TO-354 ON LIGHTER

Fit cover to base of lighter and line up holes with pin. Insert screw and tighten. Cover should move freely on axis of screw.



With cover in full open position place release lock over spring. Spring should be between right wall A of release lock and part B of base of lighter. Push spring down with release lock and line up holes with holes in base of lighter. Insert screw and tighten.

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This kit will bring \$35.00 to \$75.00 or more in resales and repairs

The list price of this kit is \$16.67
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Your Cost is **\$10.00** net

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33 Compartment 4 1/4" x 8 1/4" Plastic Storage Chest

3 Window Streamers
Set of basic instruction on Ronson repairs

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The list price of this kit is

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Your Cost is **\$10.00** net

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34 Compartment 4 1/4" x 8 1/4" Plastic Storage Chest

6 Window Streamers
Repair Manual for Ronson Lighters (one to a customer)

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The list price of this kit is \$83.34
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Your Cost is **\$50.00** net

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12 Window Display Streamers

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KIT A-1000 contains a complete assortment of parts to fit Ronson, Evans, Thorens, Elgin American and most other popular lighters.

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The list price of this kit is \$166.67
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FREE!

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And at No Extra Charge You Get Metal Storage Cabinet, Window Display Streamers, S-800 Plastic Counter Display

*Each kit is packed in a beautiful clear plastic or metal storage chest.

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*The complete Repair Manual is given FREE of charge with kit X-500 and A-1000. (one to a customer).

Send check in advance. Save Postage & C.O.D. Fees.

*Parts to refill all kits are available from

LIGHTER PARTS, INC., 2 E. Stockton Ave., Pittsburgh 12, Pa.

MISCELLANEOUS LIGHTER STYLES

As you probably know there are many, many different styles and types of lighters on the market today.

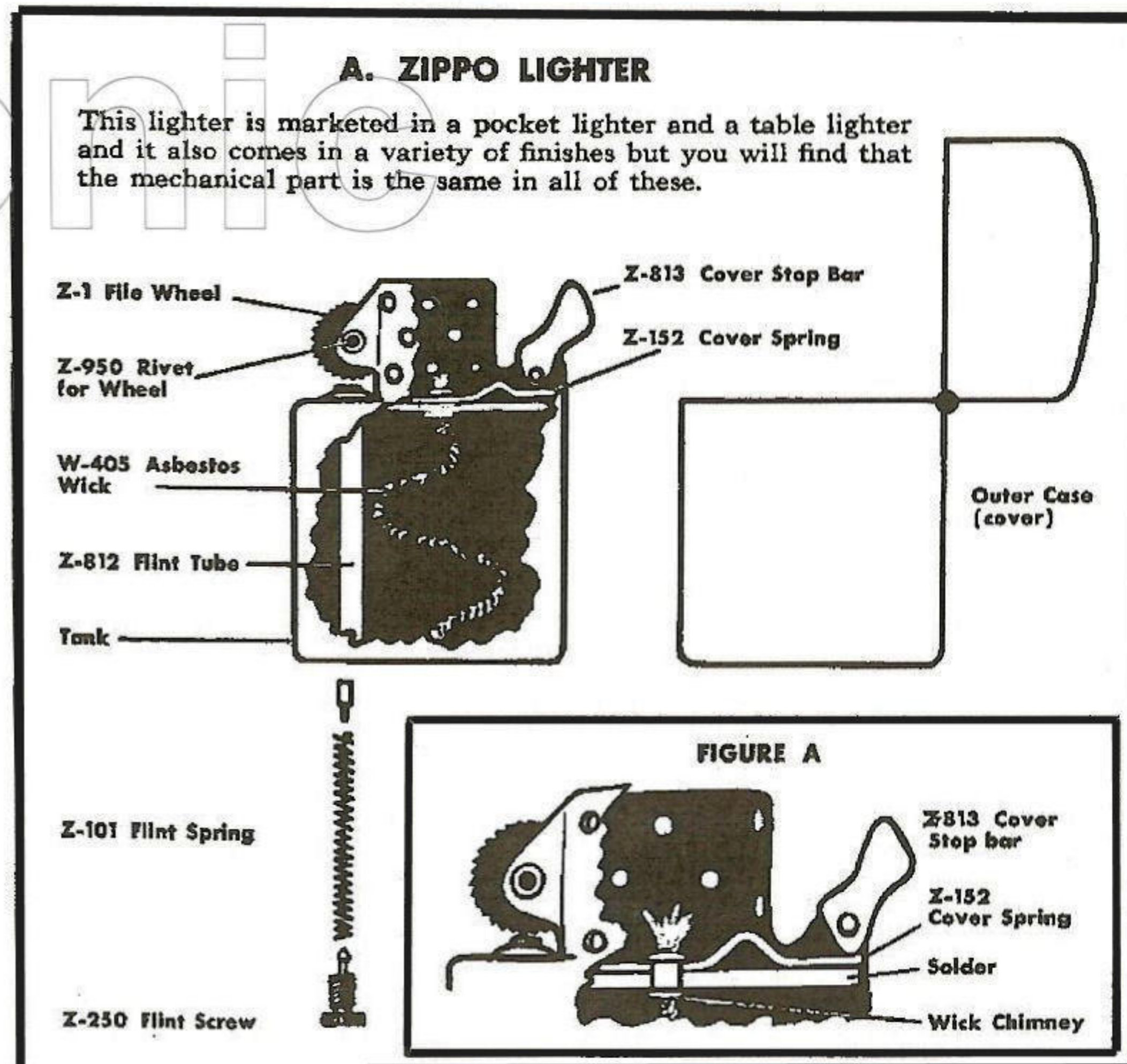
In order to describe the working of each of these for you, we are going to group the lighters into several different types.

Each of the following sections will deal with one particular basic type of mechanism and we will go on to tell you in this same section which popular brands of lighters fall into this particular category.

We will also describe for you some of the small variations which each manufacturer has added or eliminated to make his lighter a little different.

SECTION I—THUMB WHEEL TYPE LIGHTER

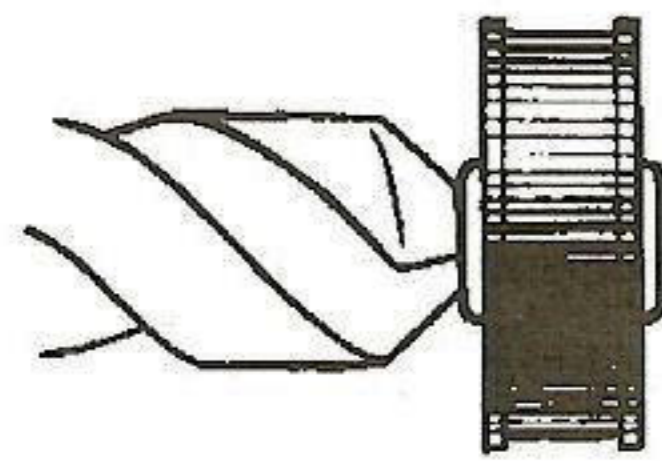
On this type of lighter you will find that the mechanisms are usually nearly the same. Below is a diagram of the most popular thumb wheel type of lighter.



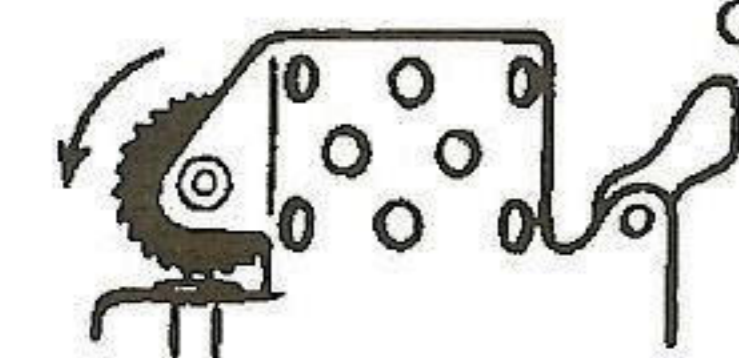
This lighter is disassembled in the following manner:

1. Remove flint screw Z-250 and flint spring Z-101 and Flint.
2. Remove all old cotton and old wick.
3. Examine file wheel Z-1 to see if it is worn and needs to be replaced.

If you find it necessary to replace, proceed as follows:



A. Using a drill slightly larger in diameter than Z-950 rivet, burl off head of rivet shaft.



B. Remove old file wheel noting that sharp cutting edges face in the proper direction.

C. Place new wheel in proper position taking care that cutting edges at the bottom of wheel directly over the flint tube face inward, toward the lighter as illustrated.

D. Replace new rivet and flare one side until the wheel is held snugly in place.

E. Make sure the wheel turns freely.

4. Using cleaning fluid or lighter fluid and a stiff bristled brush, clean all the accumulated dirt and carbon from the top of the lighter.

SPECIAL NOTE! Z-152 Cover Spring is held in place by both Wick Tube Rivet and solder. Do not try to remove, as this is a factory job. See Fig. A on preceding page.



5. Replace wick, making sure that the end of the wick protruding from the top of the lighter 1/2" is frayed so that several ends are exposed to catch the spark.

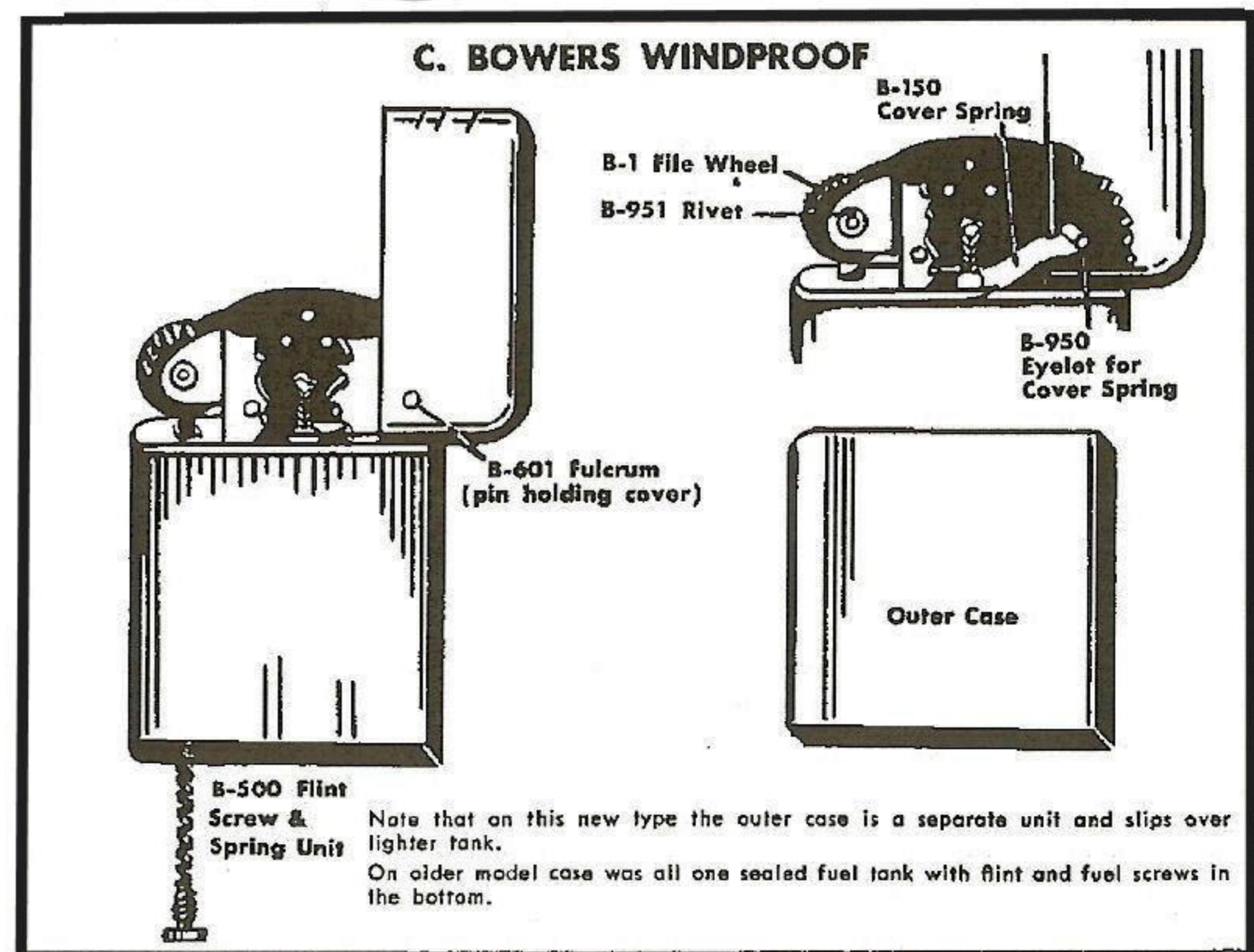
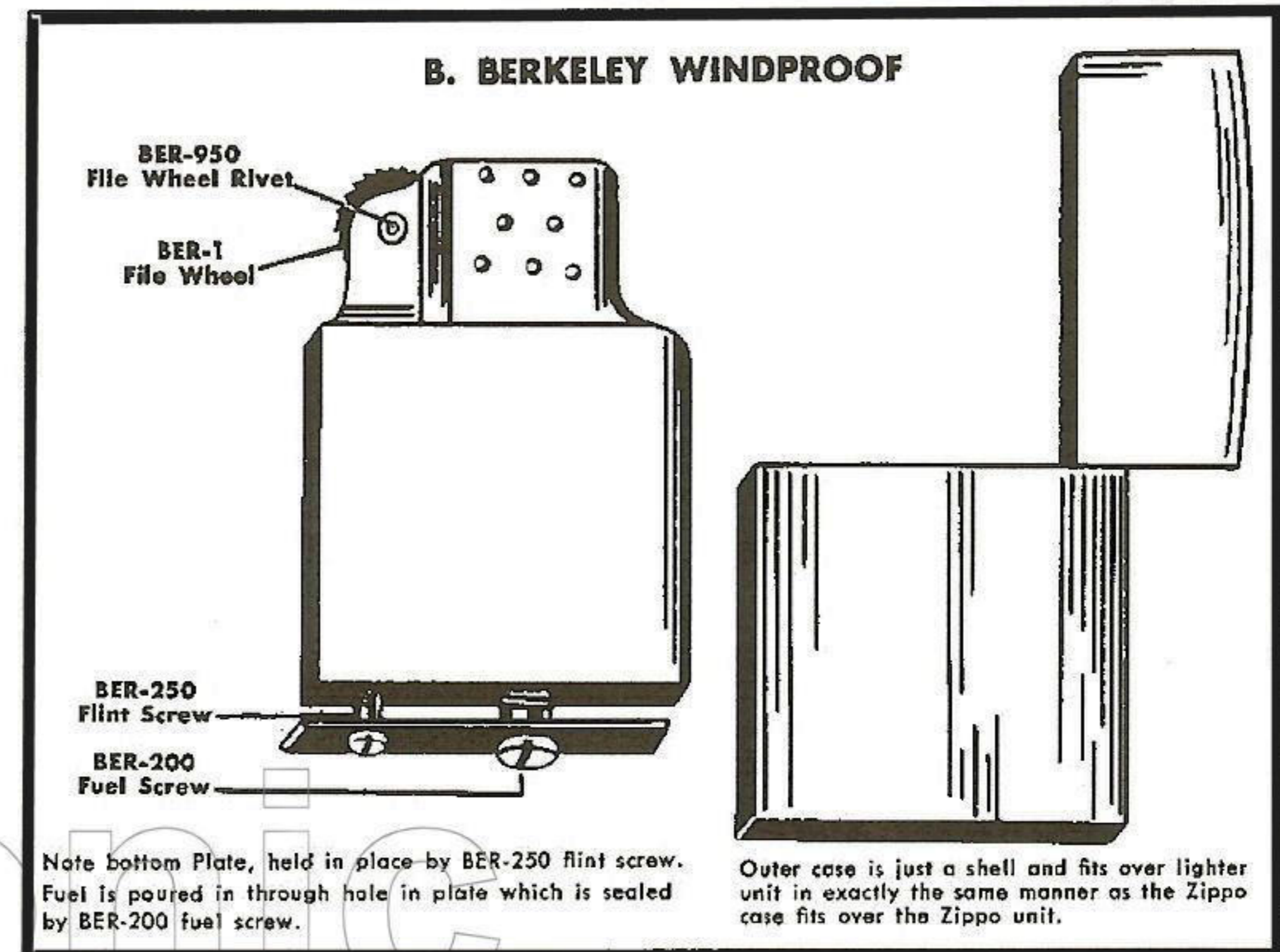
6. Replace cotton, taking care to thoroughly mix it with the wick.
7. Replace flint, flint spring Z-101, and flint screw Z-250.
8. Check lighter to see if it is working properly.

If lighter is too difficult to repair do not hesitate to return to Zippo Mfg. Co., Bradford, Pa. where it will be completely overhauled at No Charge under the Zippo Lifetime Guarantee.

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There are many other thumb wheel type lighters on the market operating on the same principle and are very similar in design.

Following we have listed some of the more popular models.

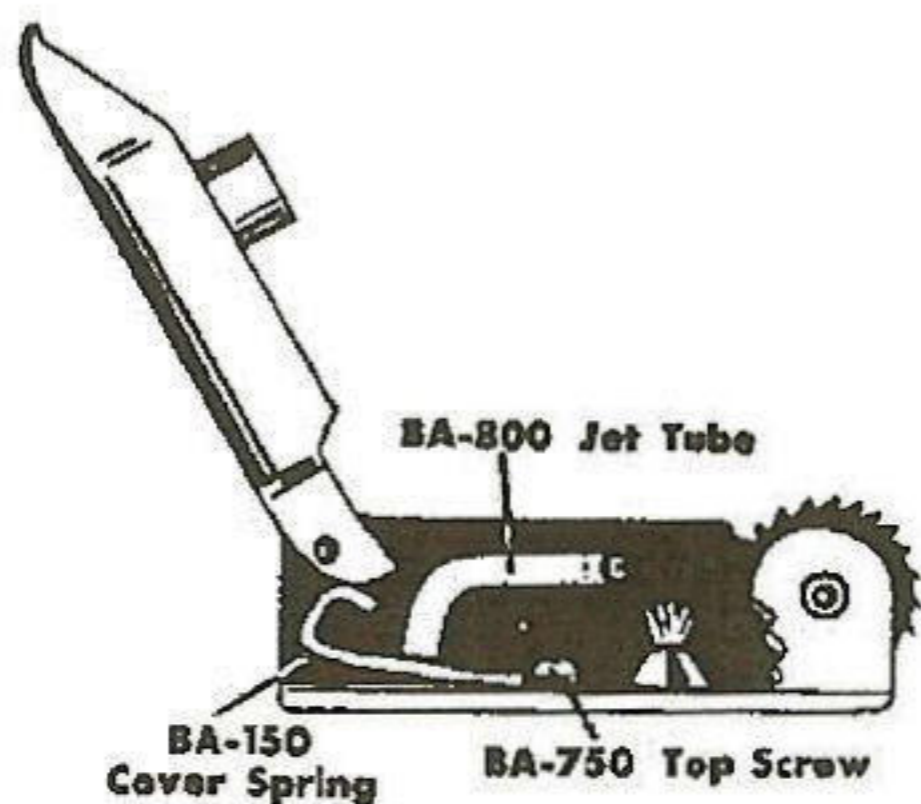


.....
D. BEATTIE JET



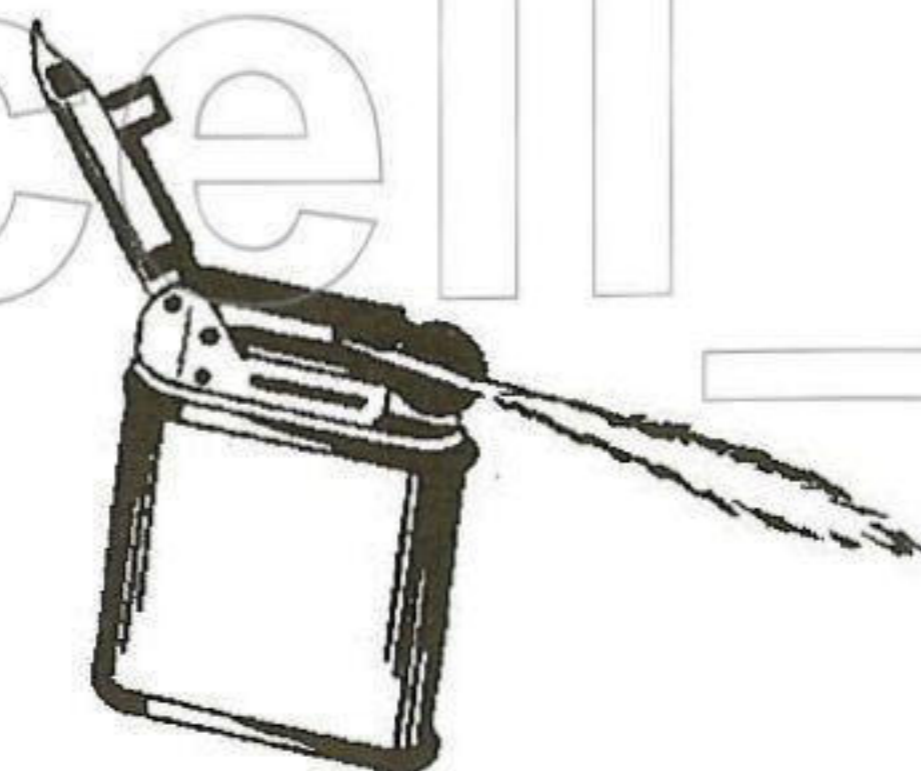
BA-453 Flint

BA-250 Flint Screw & Spring Unit



This lighter works the same as Zippo except it has a unique feature; the Jet tube. This tube is in a horizontal position, extending horizontally from the top part of the lighter.

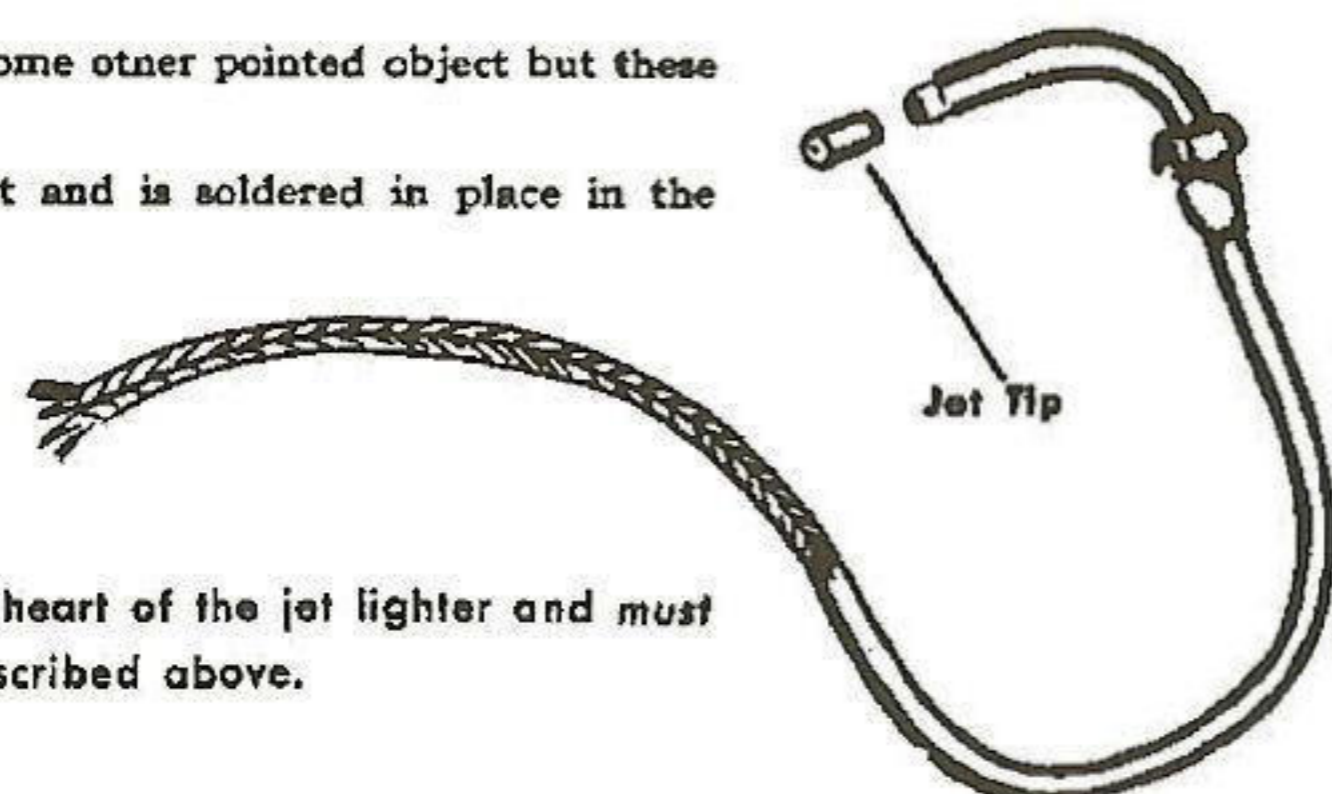
When held in a vertical position the lighter works the same as Zippo does, but when tilted so that flame hits jet tube it produces a miniature blow torch which is very effective for lighting smoking pipes.



If you will examine the small jet tip that fits over the end of the jet tube you will see a very tiny hole in it. This needs cleaned from time to time but can only be cleaned with a small wire probe (AT — 404 Page 16 of Price List).

Many people try to use a pin or some other pointed object but these enlarge the hole and ruin the tip.

Tube itself is as pictured at right and is soldered in place in the lighter.

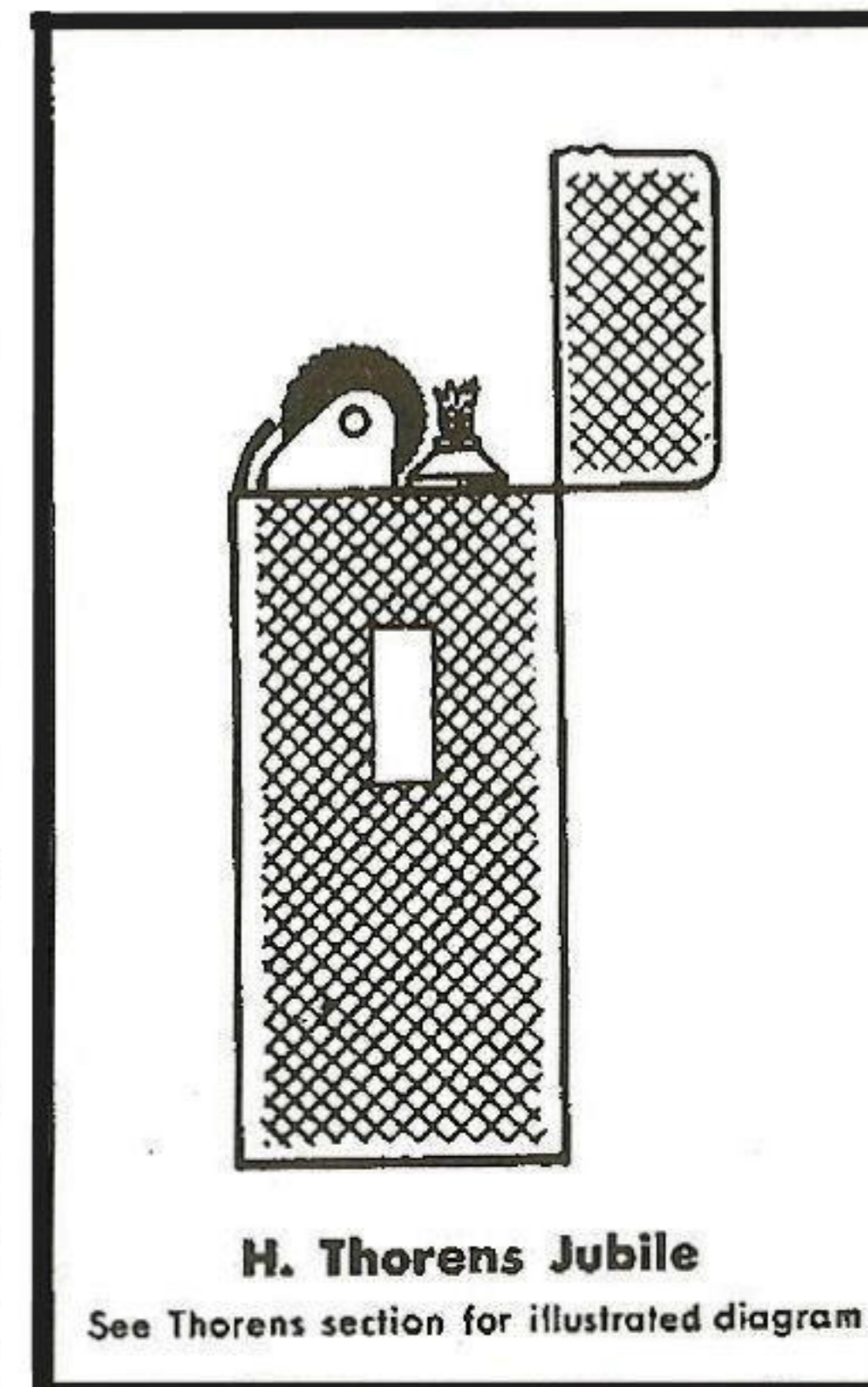
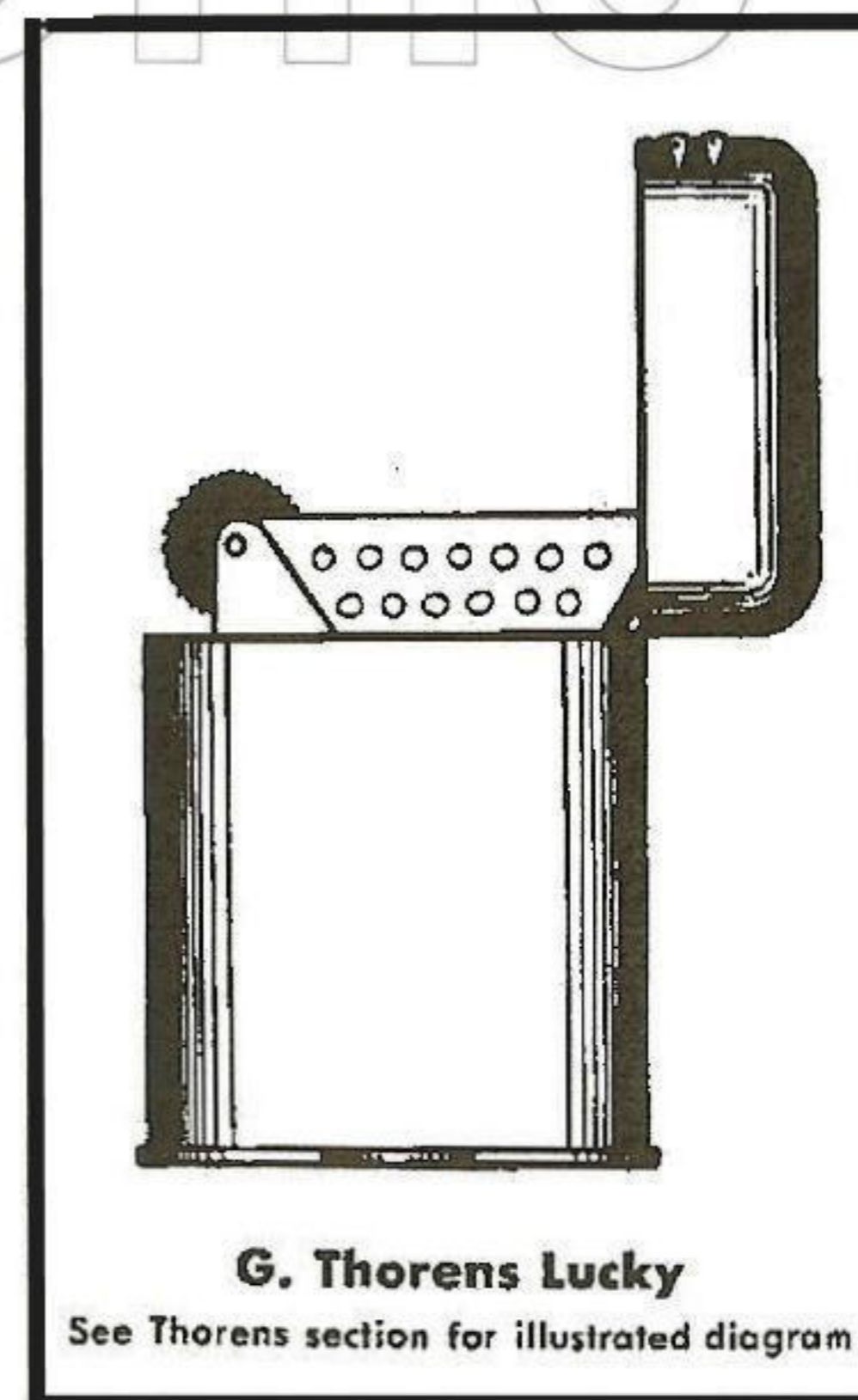
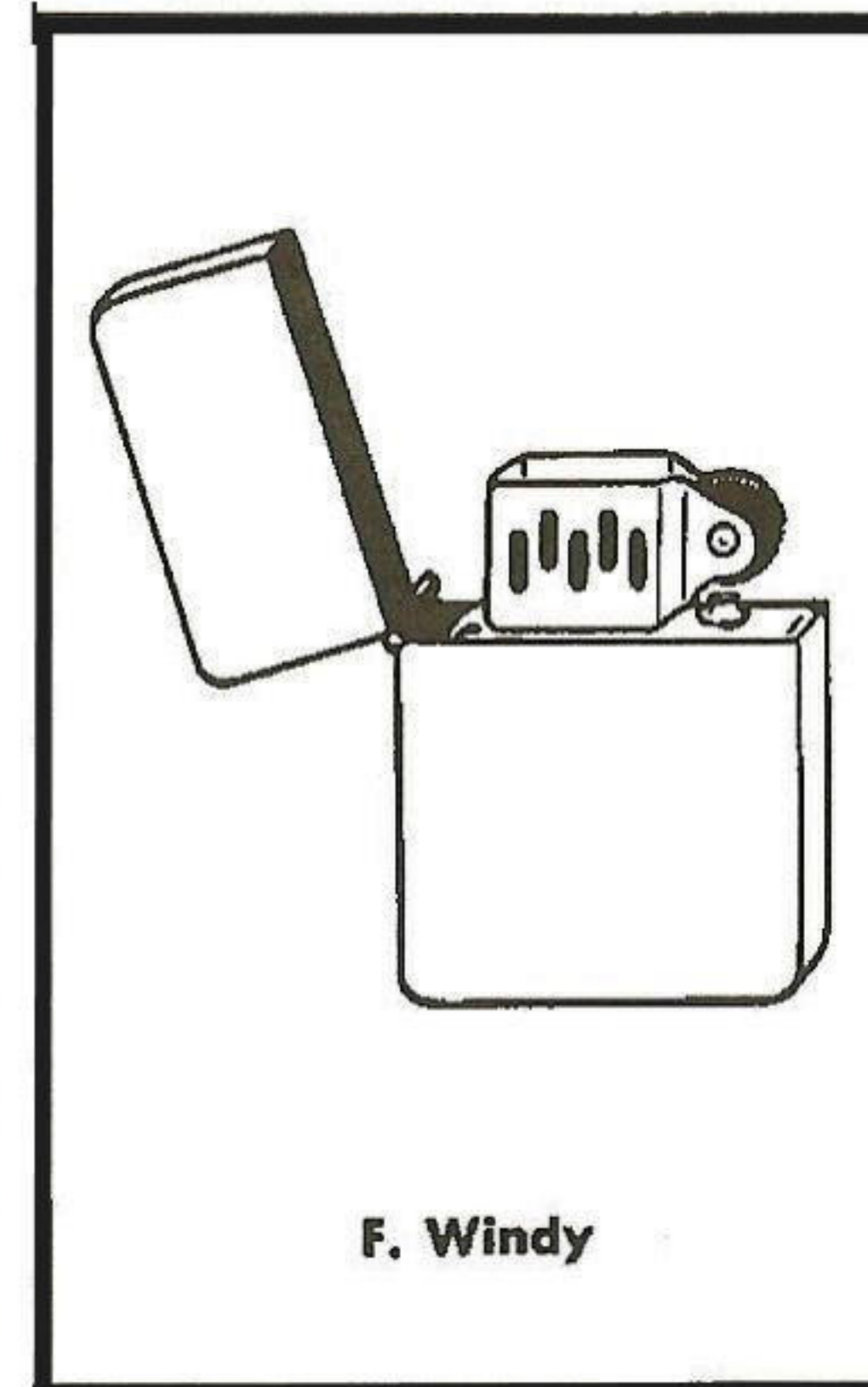
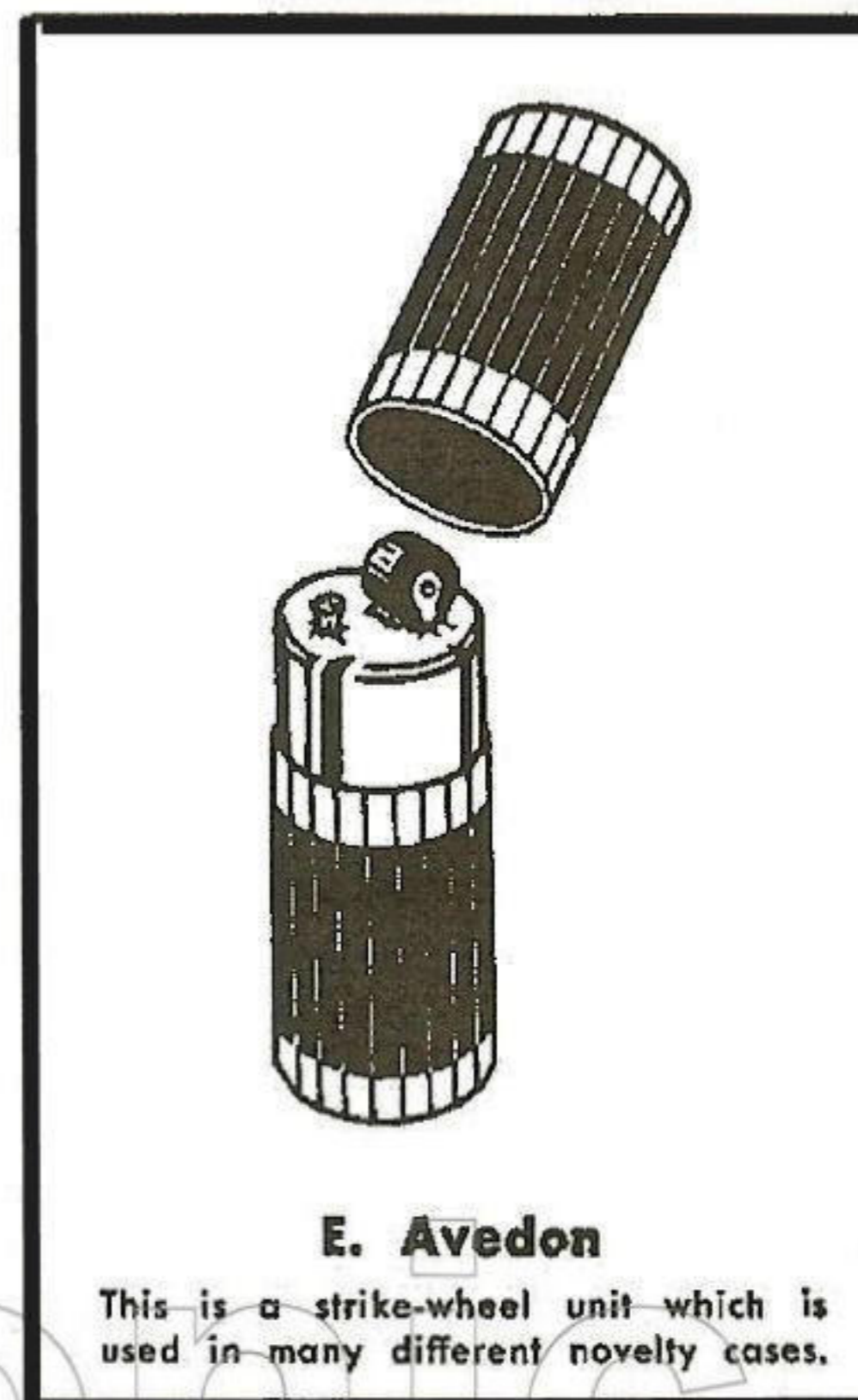


NOTE: Jet tip is the heart of the jet lighter and must be kept clean as described above.

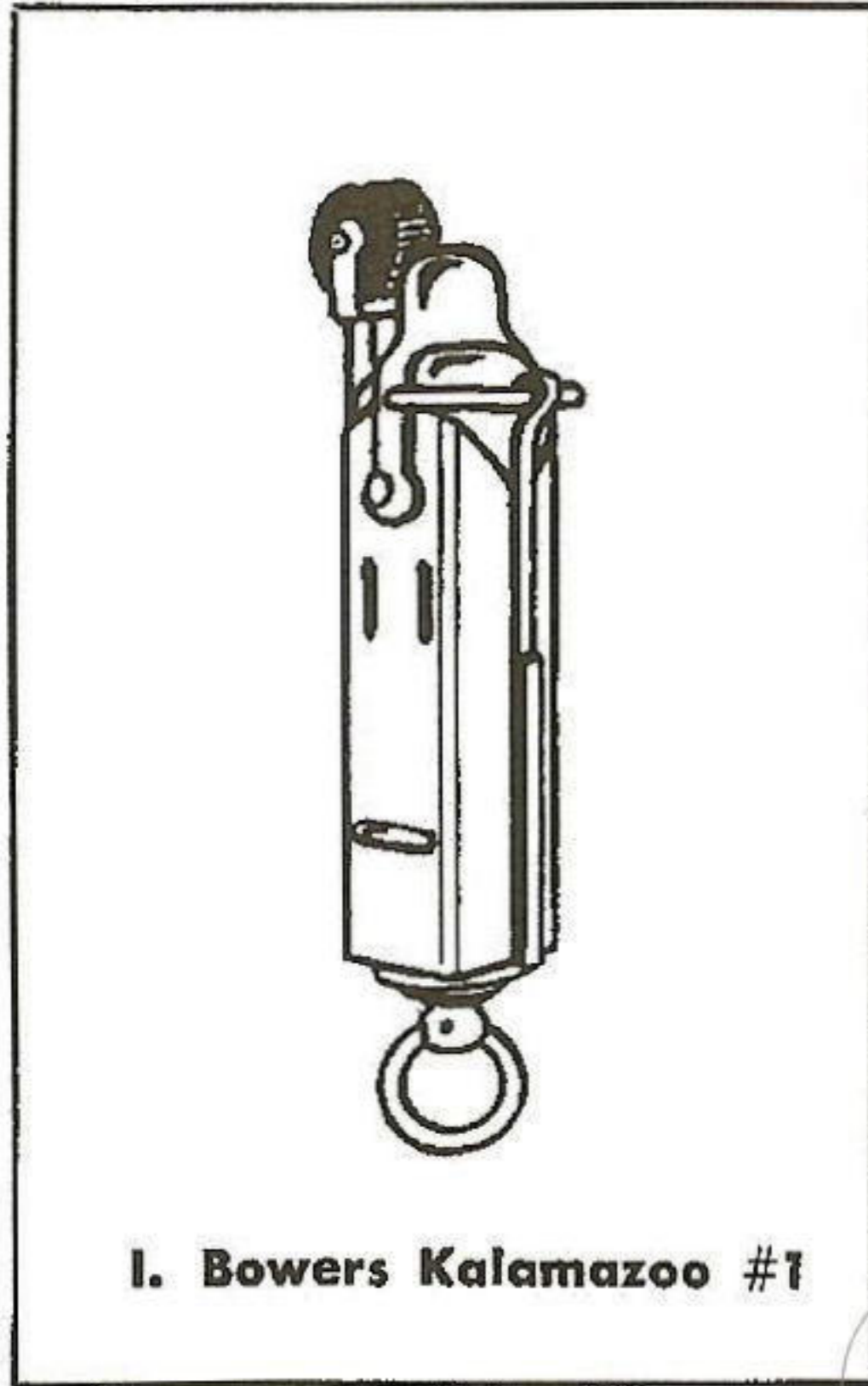
SPECIAL NOTE: Use only B-453 Beattie flints on this lighter. They are a longer flint especially designed for this lighter.

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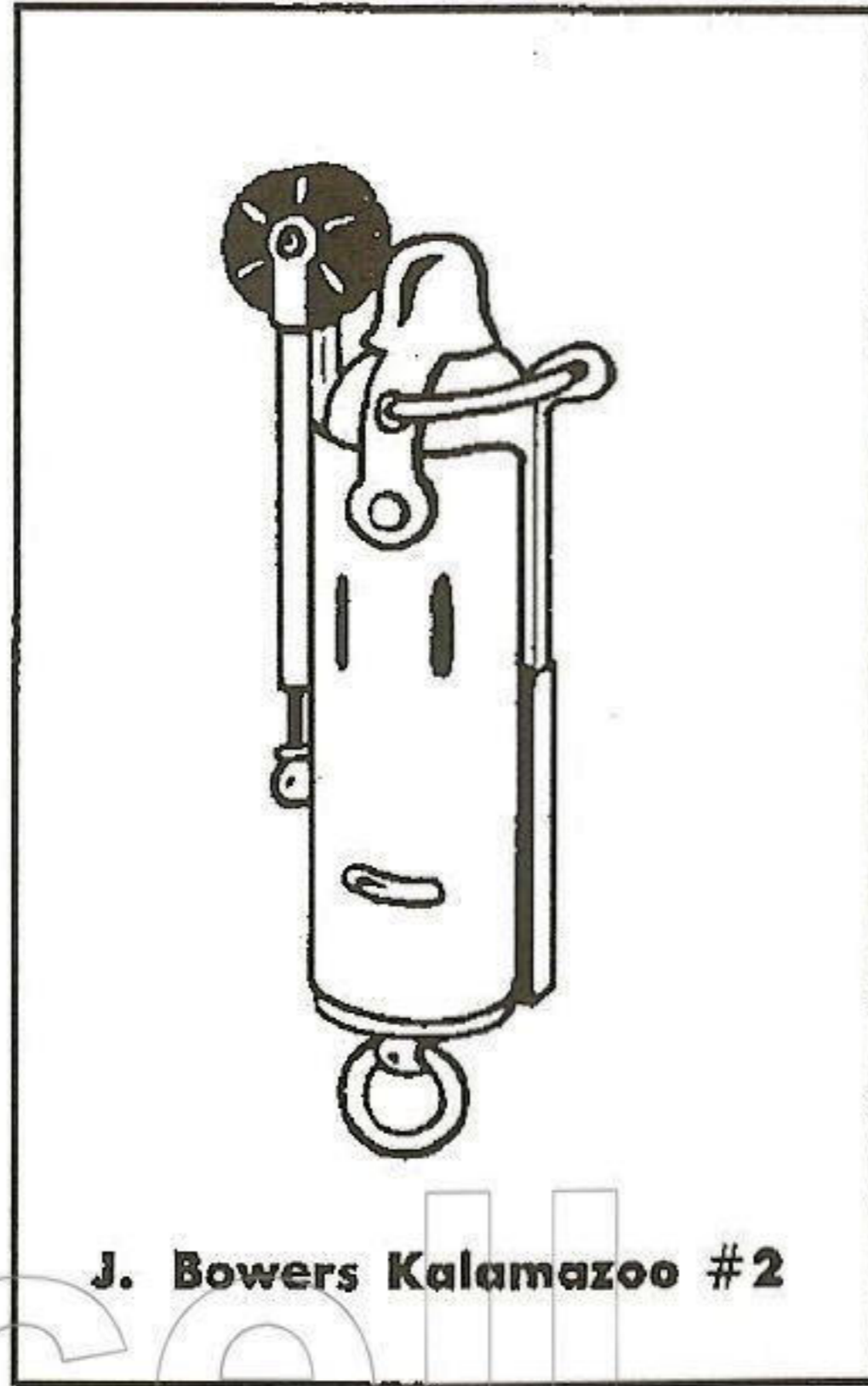
The following is a listing of other thumb wheel type lighters that you might encounter.



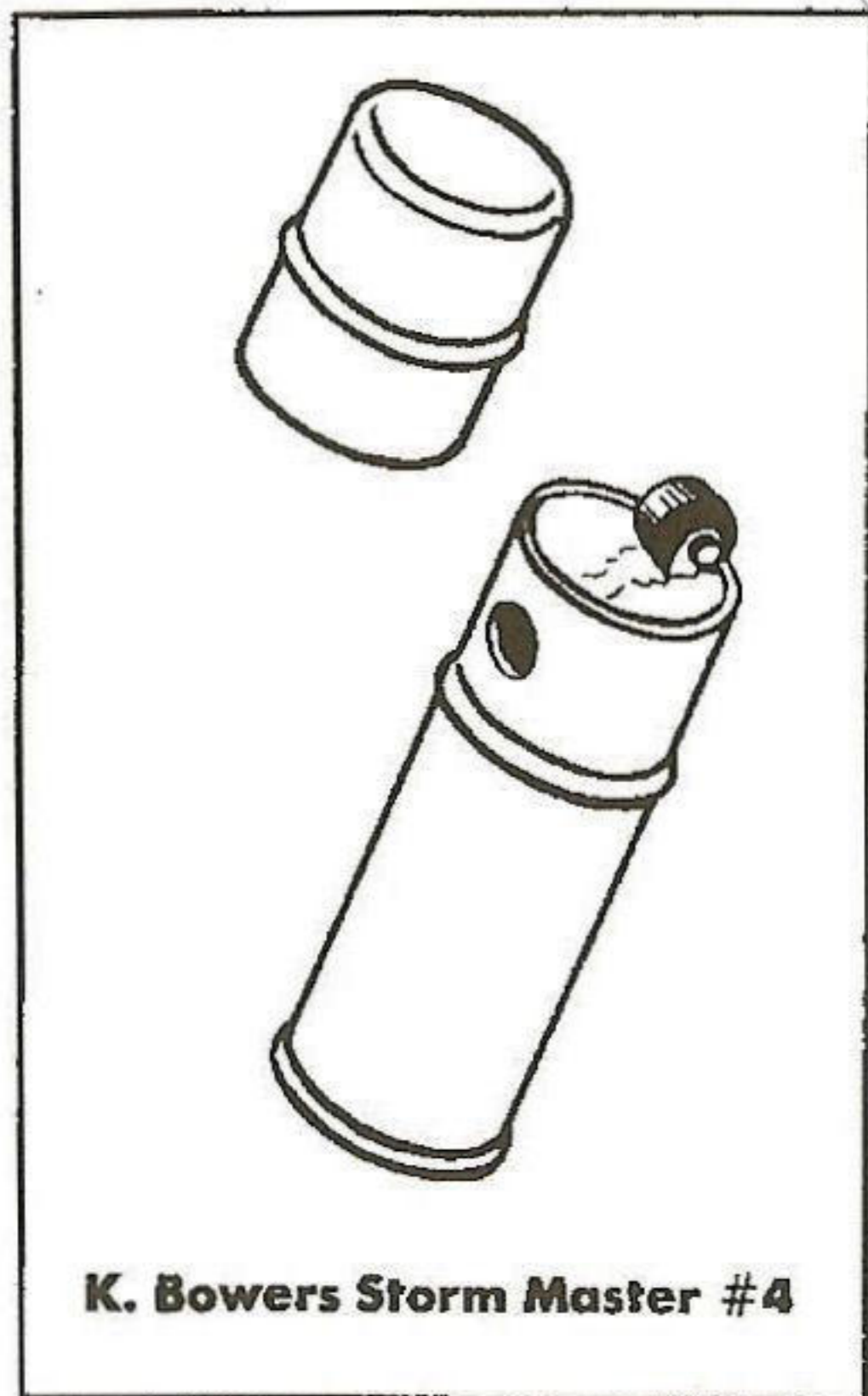
The following is a listing of other thumb wheel type lighters that you might encounter.



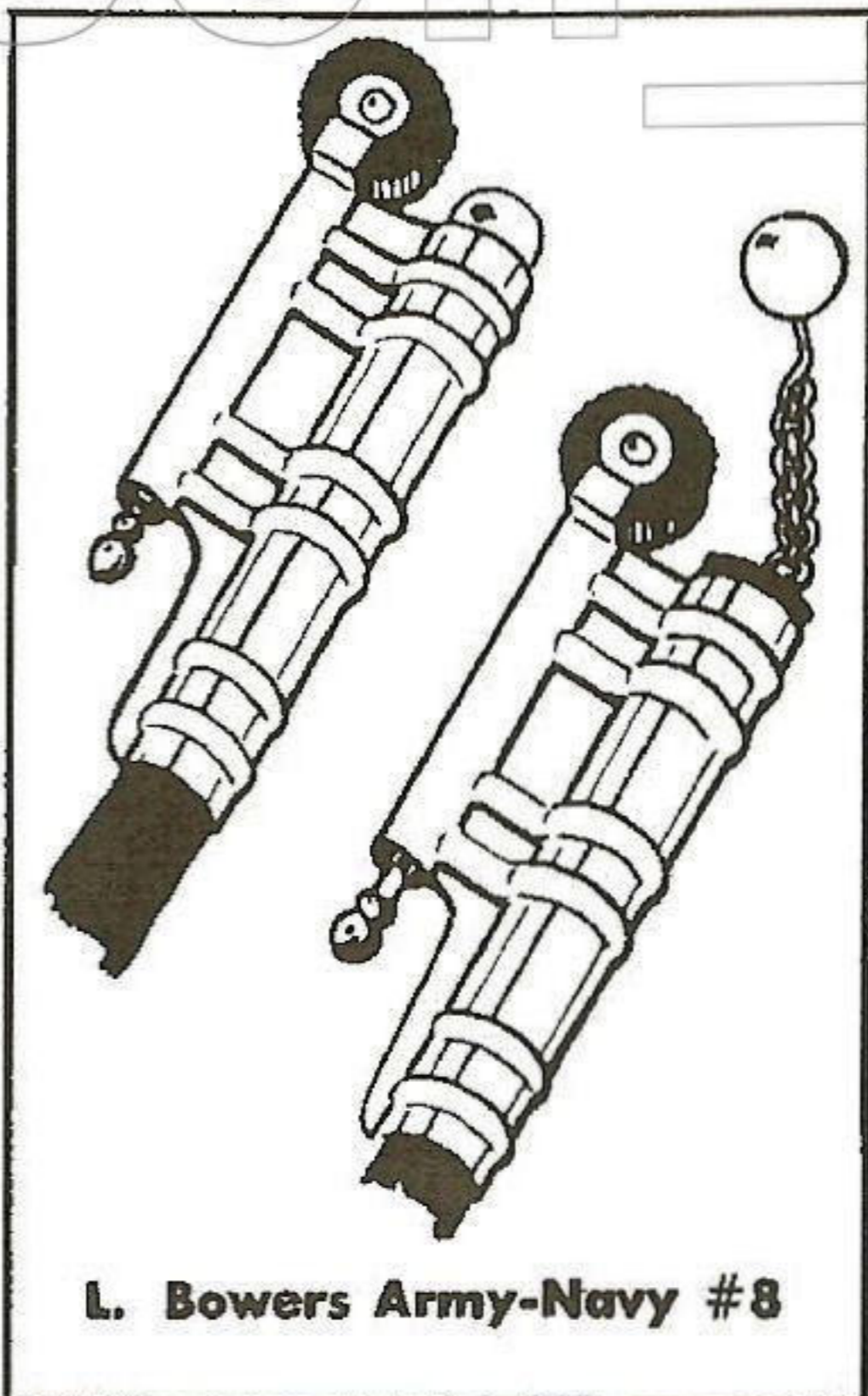
I. Bowers Kalamazoo #1



J. Bowers Kalamazoo #2



K. Bowers Storm Master #4



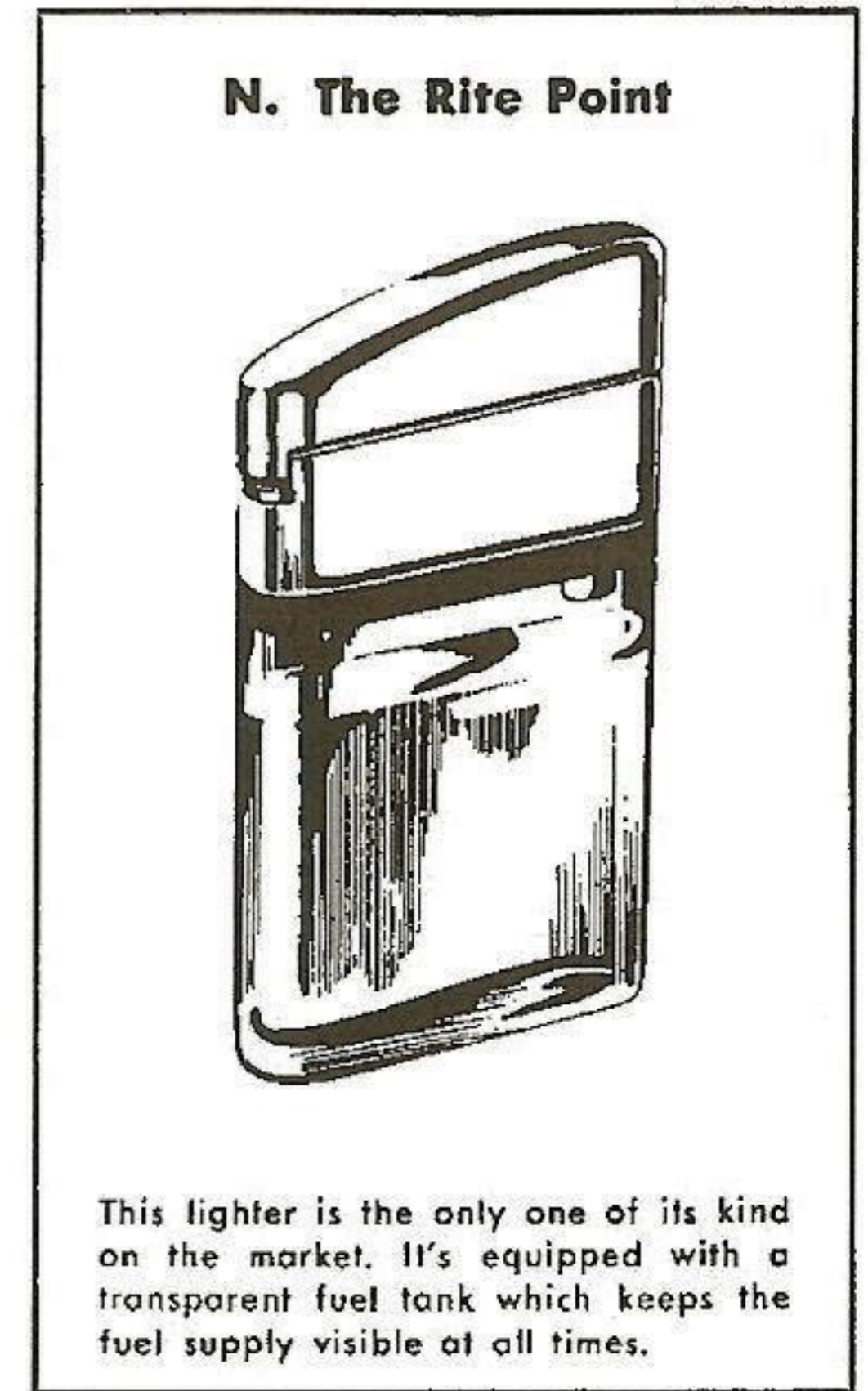
L. Bowers Army-Navy #8

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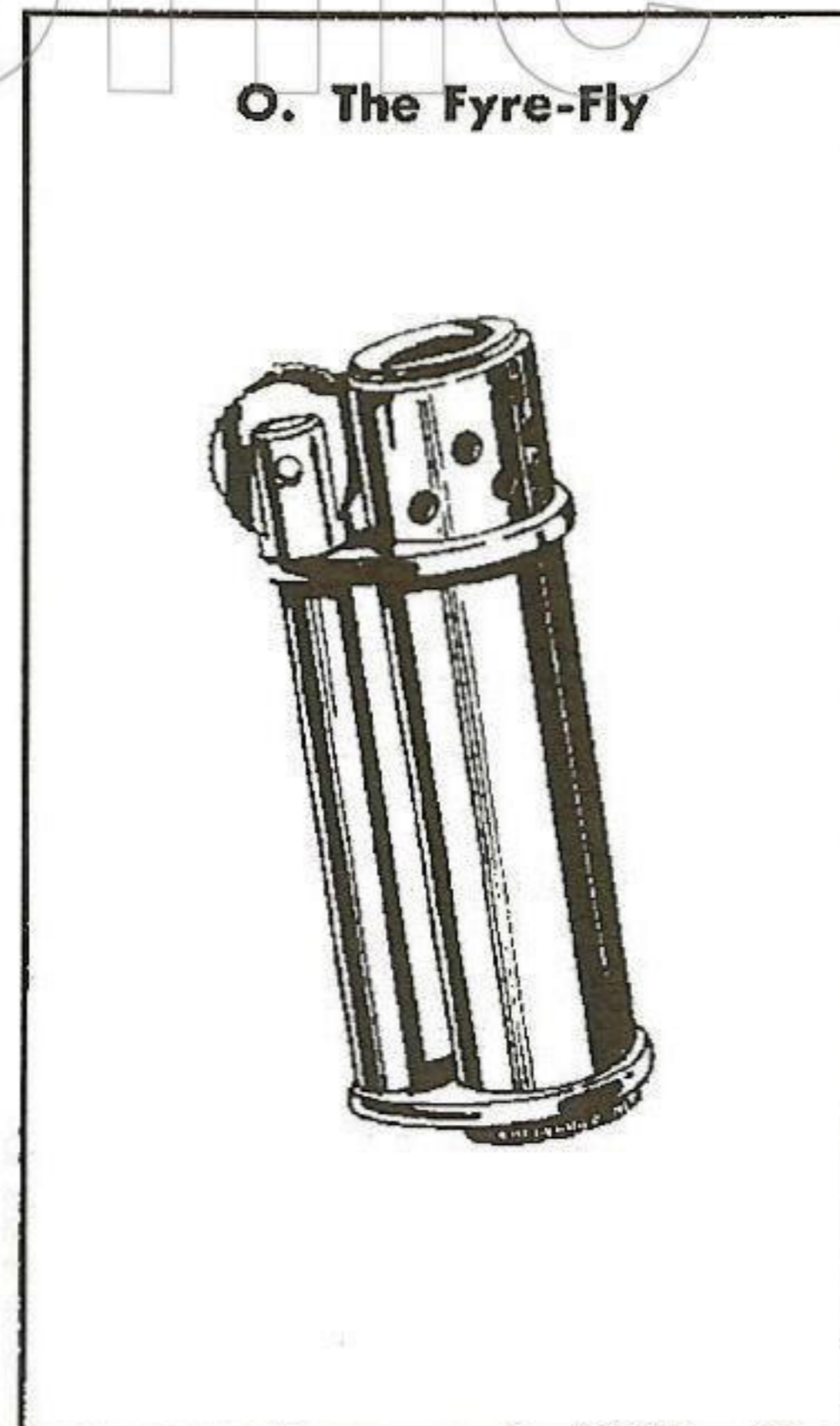
M. Ram-A-Spin

The most common breakage on this lighter is the small cover spring indicated on drawing RAMA-150.

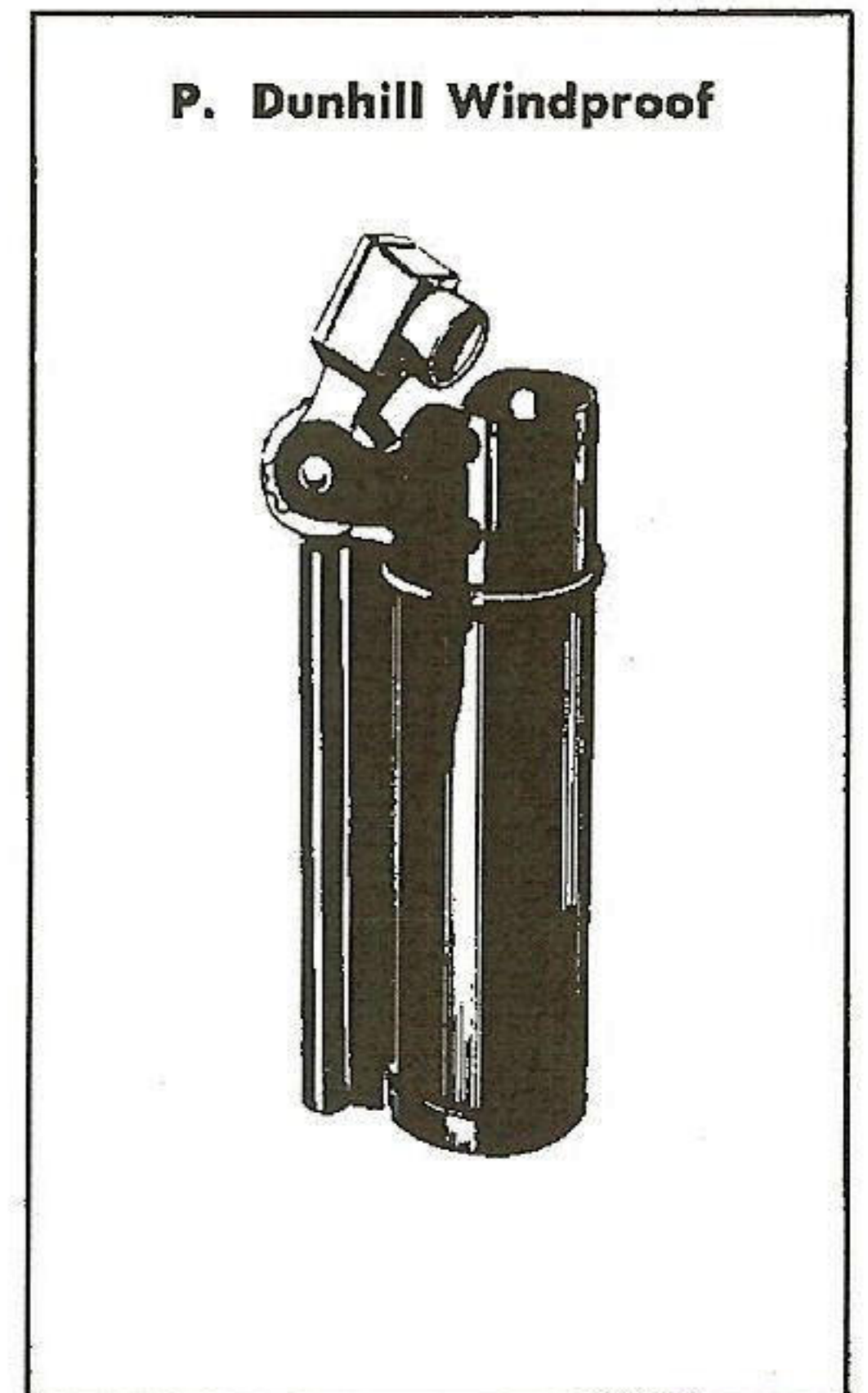


N. The Rite Point

This lighter is the only one of its kind on the market. It's equipped with a transparent fuel tank which keeps the fuel supply visible at all times.



O. The Fyre-Fly



P. Dunhill Windproof



YOU CAN GET YOUR "COMPLETE REPAIR MANUAL" FREE!

(one to a customer)

1. With any purchase of \$50.00 net or more in repair parts.
2. With the purchase of any kit that sells for \$50.00 net or more.

KITS OF PARTS TO FIT RONSON LIGHTERS ARE AVAILABLE FROM **\$10 to \$1,000**

KIT X-500 Contains 719 parts, to fit Ronson Standard, Whirlwind, Vanguard, Maximus, Triumph, Adonis, Princess, Crown, Pal, Queen Anne, Mastercase, Senator, Gem, Newport, Decanter, Mayfair, Ten-a-Case and many other models.

This Kit Will Bring **\$250.00**
to **\$350.00** in resales and
repairs.

The List Price of This Kit is **\$83.34**
You Get a 40% discount **\$33.34**

Your Cost is **\$50.00**
net

And at no extra charge you get:

FREE!

1. The COMPLETE REPAIR MANUAL (one to a customer)
2. 60 compartment 6 1/2" x 11" plastic storage chest
3. 12 Window display streamers
4. S-800 Plastic counter display

If You Are Interested in Parts for Other Lighters

Such as A.S.R., Elgin American, Mylfam, Negbaur, Wedemeyer, Metalfield, Royal Case Lite, Royaliter, Pistoliter, Marathon, Maraking, Dunhill, Parker, Giant, Regens, Stratoflame or any other lighter:

You can get a manual of instructions on any lighter mentioned above and many others

FREE!

With your purchase of a \$25 Kit of \$25 net in parts.

Here's something

NEW! → The TINY-KIT!

Tiny-Kits Are Available For All Models of Ronson Lighters

Standard, Whirlwind, Princess, Adonis and many others.

NOTE:

Tiny-Kits are also available for Evans, Thorens, A.S.R. and many others.

Please Specify Model Desired

A small, compact, pocket-size repair kit, which contains an assortment of parts that list at \$4.45. Enough parts to repair up to 25 lighters.

Best of all it costs you only **\$2.50** net

EXTRA! Free instructions with each kit.

Send check in advance. Save Postage & C.O.D. Fees.

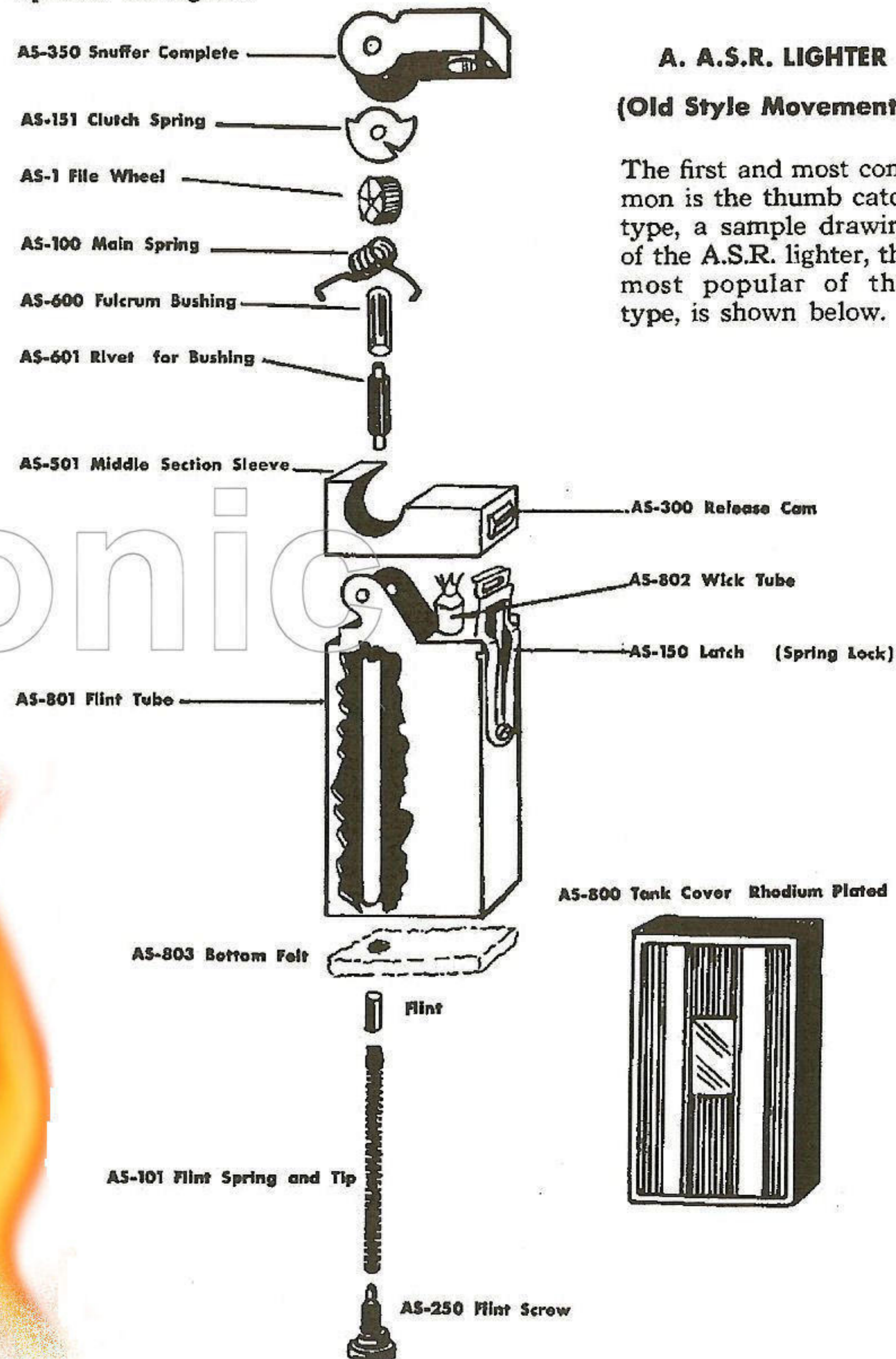
*Parts to refill all kits are available from

LIGHTER PARTS, INC., 2 E. Stockton Ave., Pittsburgh 12, Pa.

SECTION III. SEMI AUTOMATIC SNAP OPEN TYPE OF LIGHTER

A. S. R. LIGHTERS

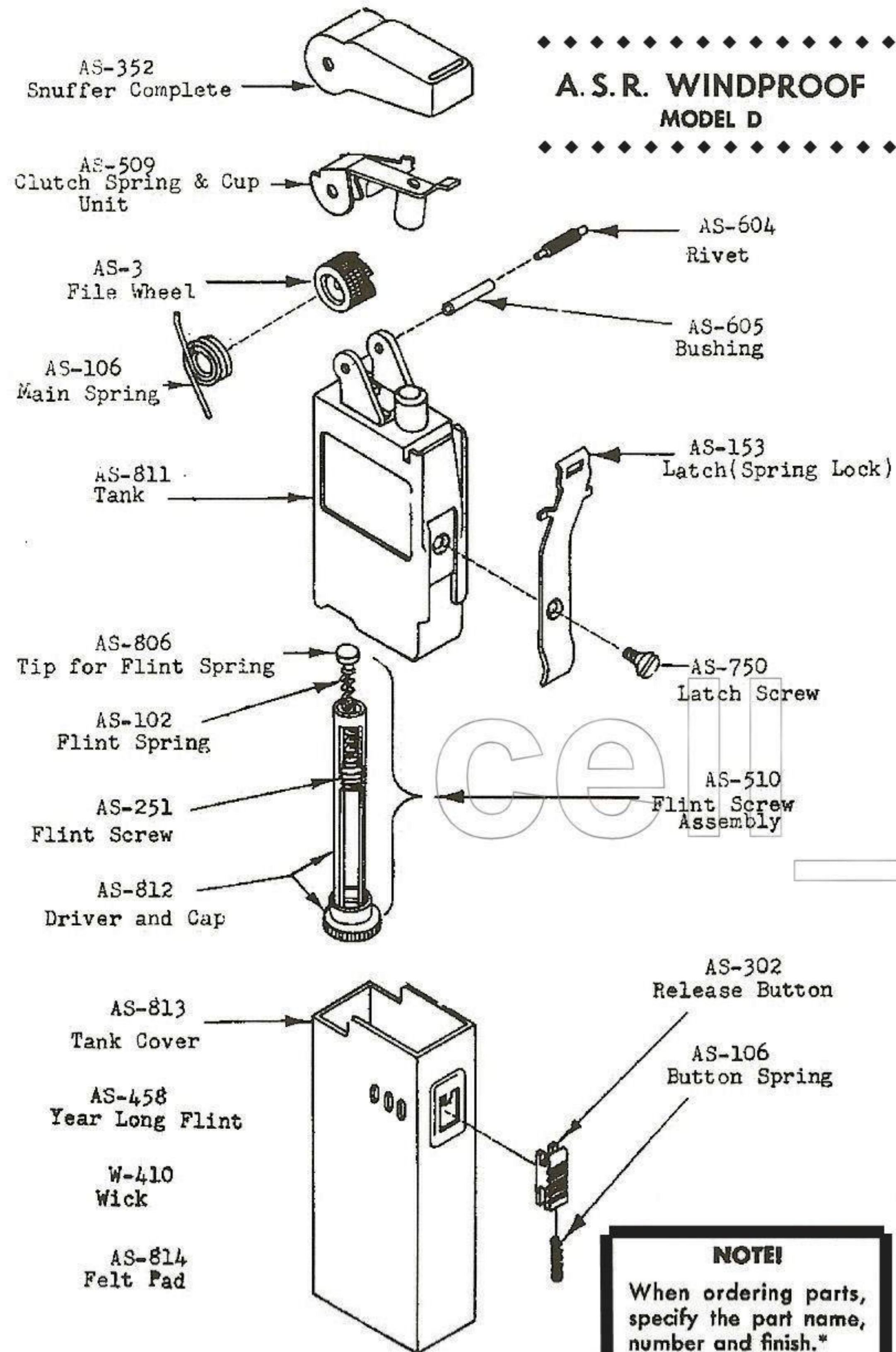
There are many variations on this type of lighter. The most common difference is usually found in the type of catch or trigger which holds the lighter closed when not in use, and which acts as a trigger to operate the lighter.



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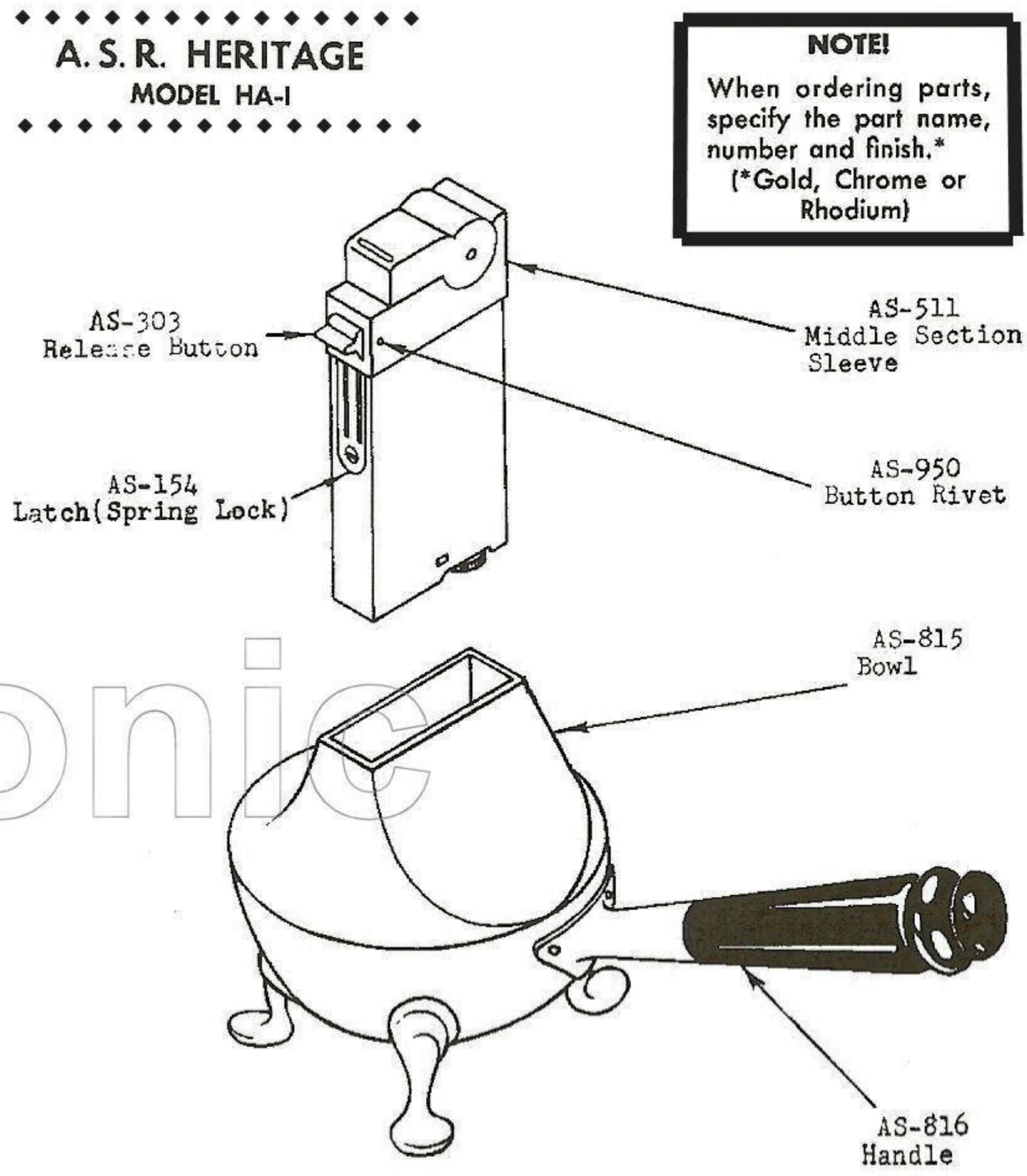
sonic





NOTE!
When ordering parts, specify the part name, number and finish.* (*Gold, Chrome or Rhodium)

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NOTE!
When ordering parts, specify the part name, number and finish.* (*Gold, Chrome or Rhodium)

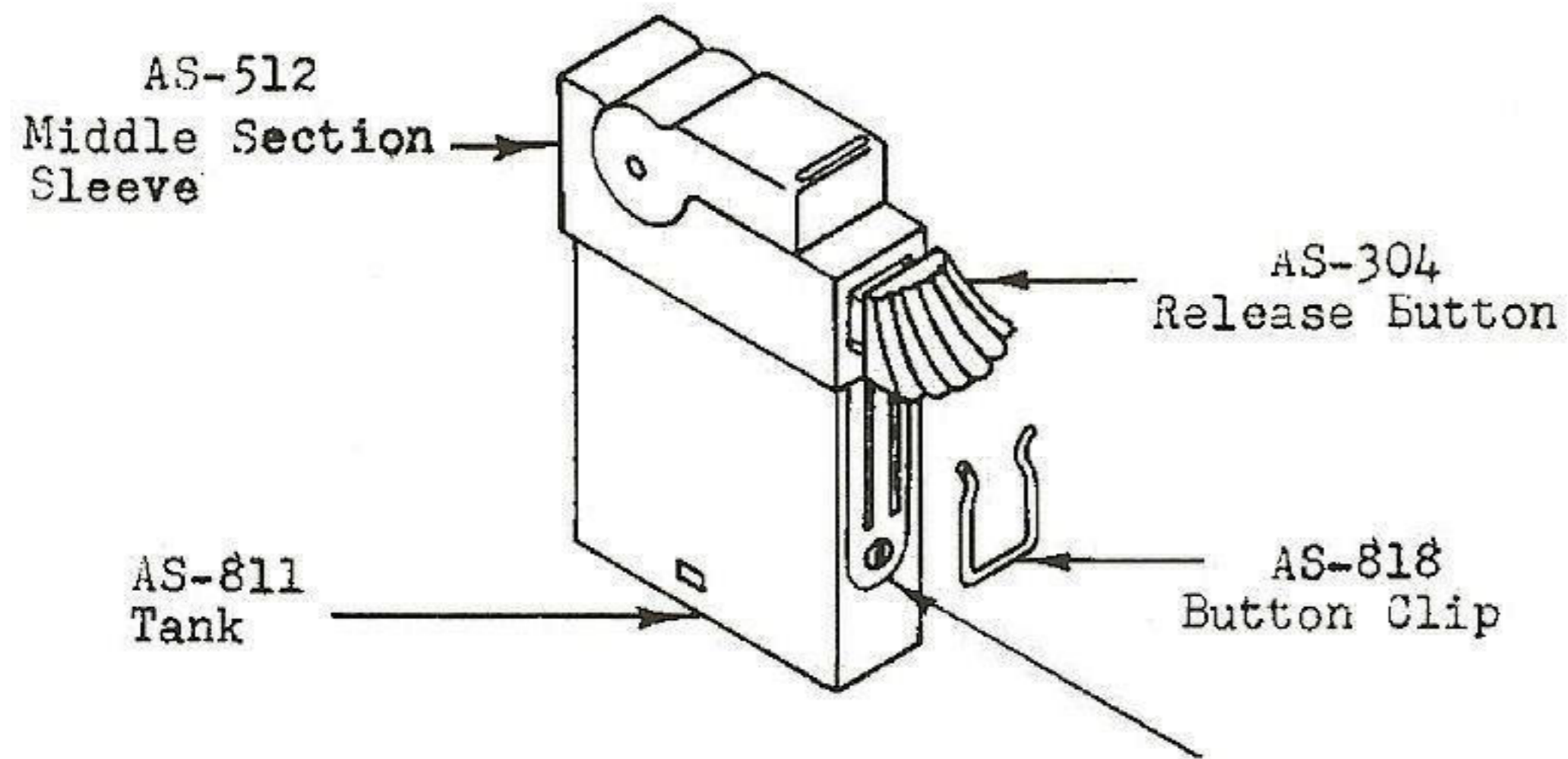
GET YOUR "TINY-KIT" OF PARTS FOR A.S.R. LIGHTERS NOW!

There's a Tiny-Kit available for each model and each Tiny-Kit contains enough parts to fix up to 25 lighters. The Tiny-Kit is a "vest pocket" repair kit that cost you only _____

\$2.50 net
TRY ONE!

Tiny-Kits are available for all models of lighters
See page 100 for further information on Tiny-Kits

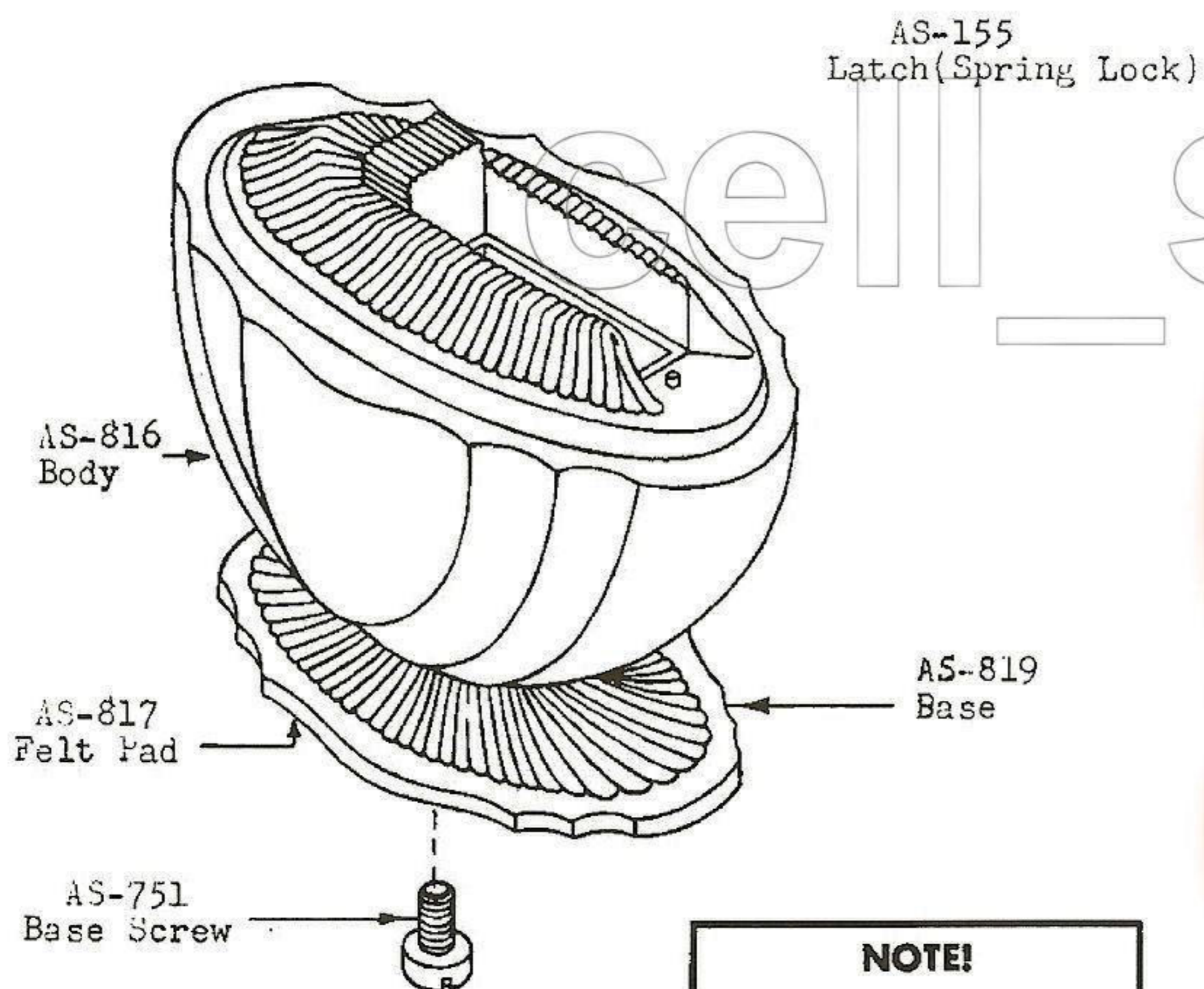
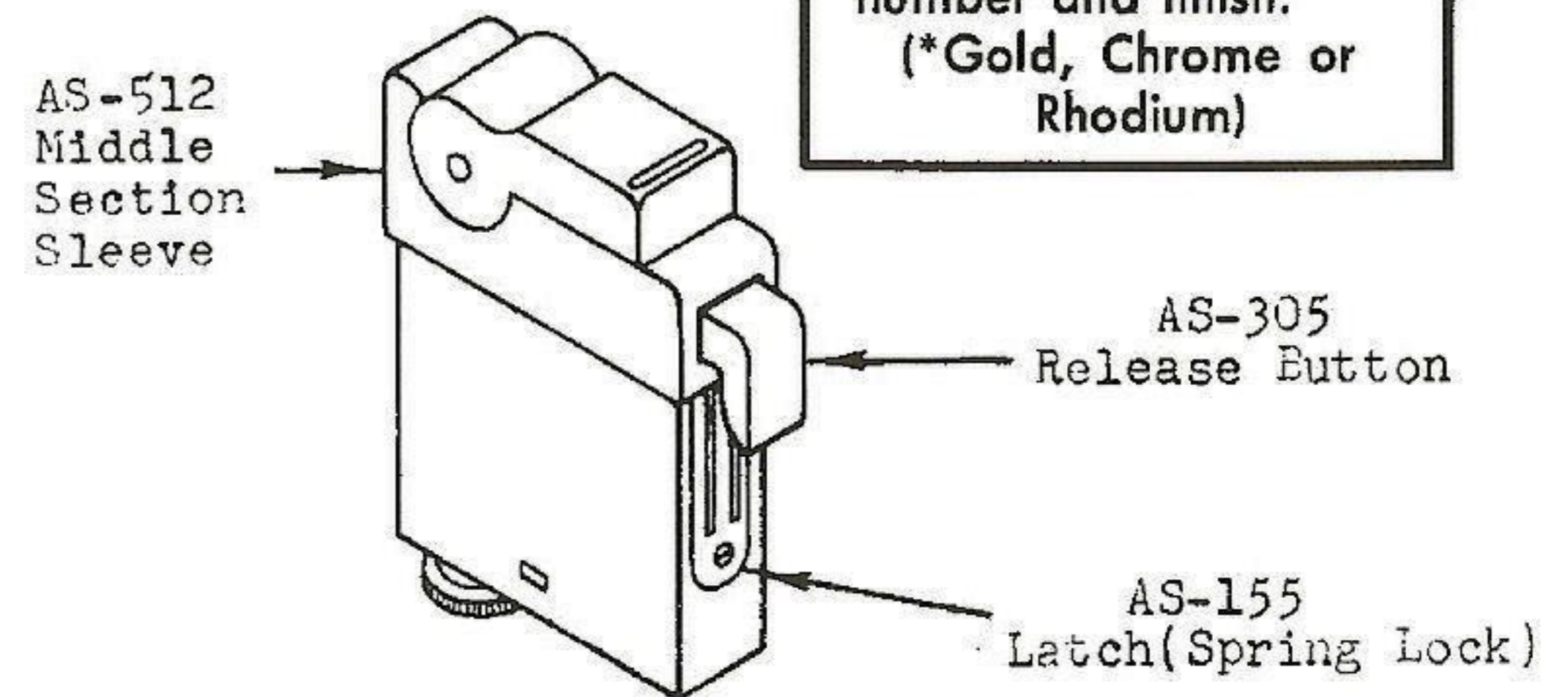
.....
A. S. R. CLASSIC
MODEL GB-I



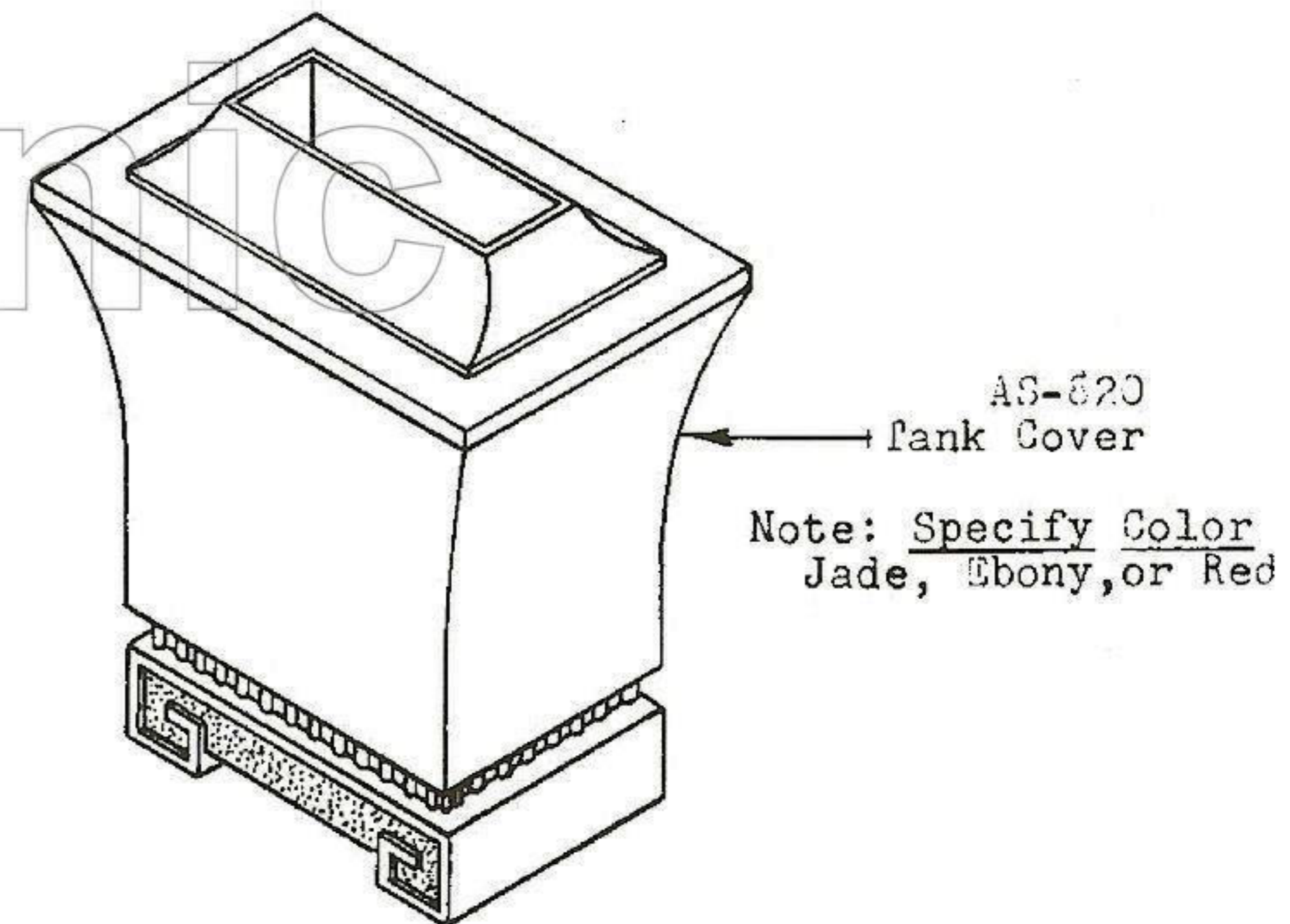
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.....
A. S. R. PAGODA
MODEL PB-I

NOTE!
 When ordering parts,
 specify the part name,
 number and finish.*
 (*Gold, Chrome or
 Rhodium)



NOTE!
 When ordering parts,
 specify the part name,
 number and finish.*
 (*Gold, Chrome or
 Rhodium)



GET YOUR SHARE OF LIGHTER REPAIR
You can get your copy of the complete repair manual
(One to A Customer)

1. With the purchase of X-500 Kit of parts for Ronson which sells at \$50.00 net. Or
 2. With the purchase of \$50.00 net in repair parts.

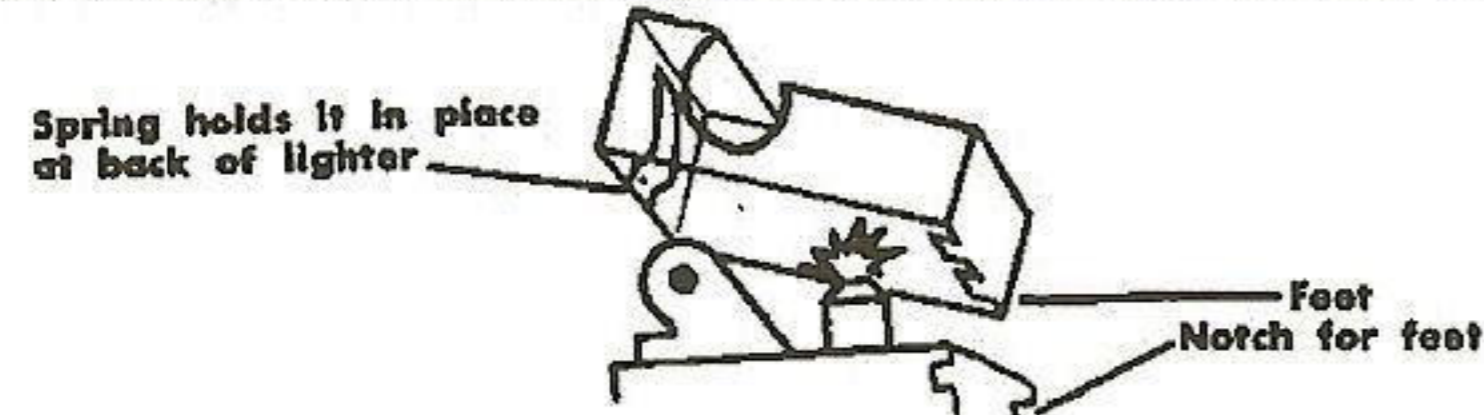
★ Repair Kits are available from \$10.00 to \$1000.00 ★ Free instructions are given with every Kit
 Write for information on distributorship. Parts for restocking kits are available at all times from
LIGHTER PARTS, INC., 2 E. Stockton Ave., Pittsburgh 12, Pa.

TO DISASSEMBLE THE A. S. R. LIGHTER

1. Slide Tank Cover AS-800 off lighter Tank.
2. Remove flint screw AS-250, flint spring AS-101 and flint.
3. Release Cam AS-300 to allow snuffer to spring to vertical position.
4. Remove snuffer by gently prying sides outward until it slips off rivet as illustrated.

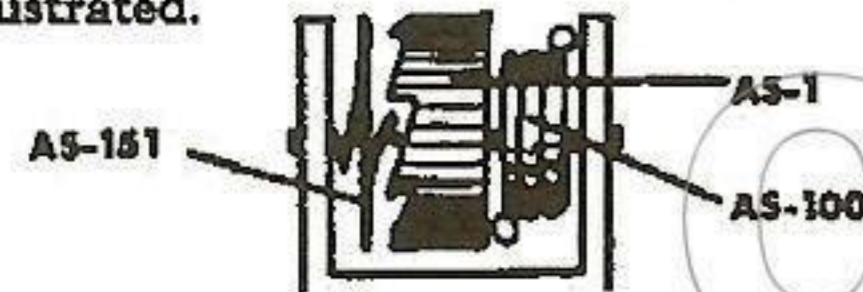


5. Remove rivet AS-601 and bushing AS-600.
6. Then remove file wheel AS-1, main spring AS-100, and clutch spring AS-151.
7. Middle section sleeve AS-501 can then be lifted off. Note how it is fitted in place.



TO REASSEMBLE THE A. S. R. LIGHTER

1. Slip middle section sleeve AS-501 back into position. Hook feet in slots at front of tank then press back down into place.
2. Next place file wheel AS-1, main spring AS-100 and clutch spring AS-151 in place as illustrated.



3. Put bushing AS-600 through posts and holes in wheel, clutch spring and main spring.

A. At this point we would like to describe a method of holding top in place which we have found easier to use than AS-601 rivet and AS-600 bushing.

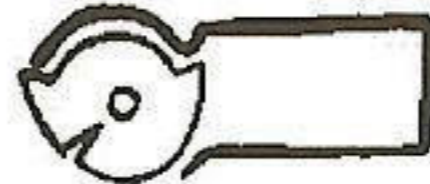
First take an Aladdin fulcrum bushing AL-600 which is threaded on either end. Use this instead of the A.S.R. bushing. Then after lighter is assembled, use an Aladdin male screw AL-750 or AL-751 in both sides to replace the A.S.R. rivet AS-601. Hole in snuffer must be redrilled to take this screw. Use #50 drill.

The principle is exactly the same but the screws are much easier to use.

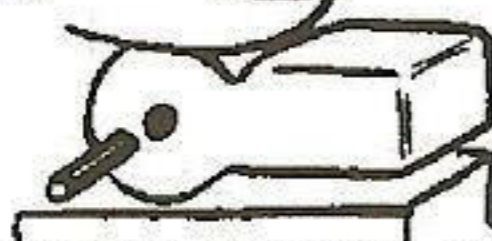
4. After top parts are in place you are ready to assemble snuffer.



Using hook to pull main spring forward slip snuffer down into place being sure that it catches clutch spring properly. This is what turns the wheel.



5. Let AS-100 main spring slip gently against top of snuffer while holding snuffer with finger.

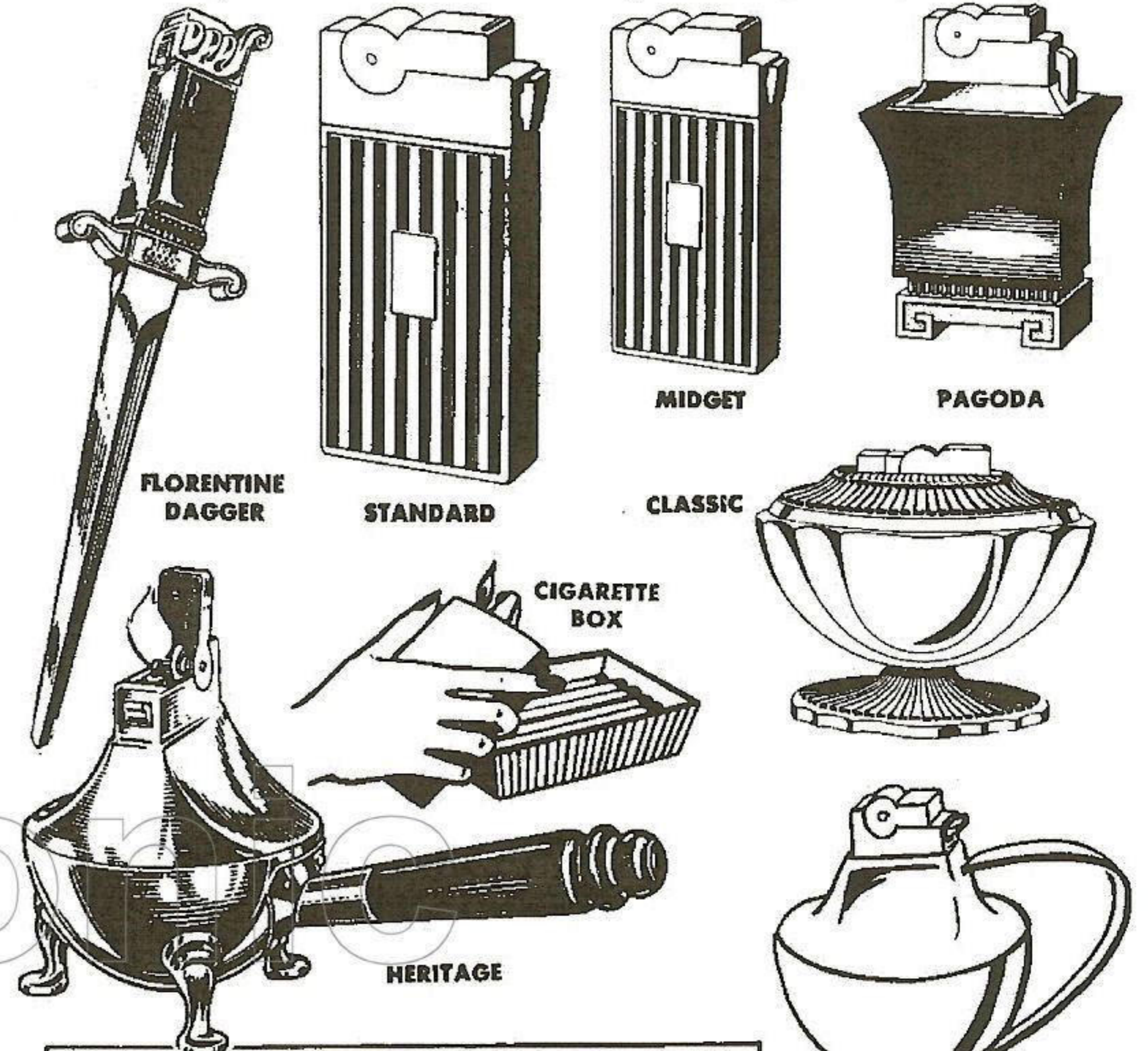


Line up holes and put rivet or screws through holes.

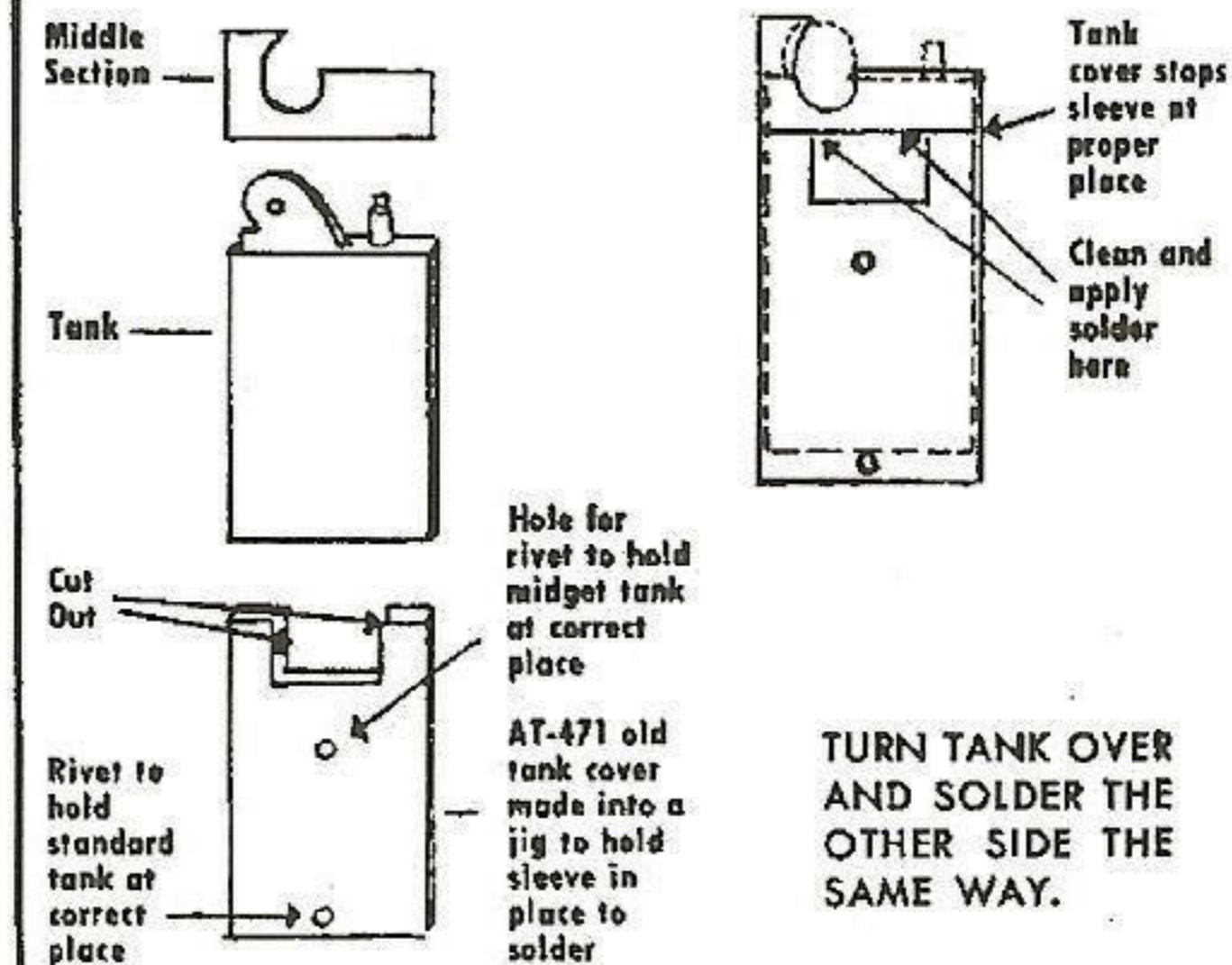
6. After screws are in place, close snuffer and snap it open a few times to check whether it is working properly.
7. Replace flint, flint spring AS-101 and flint screw AS-250.
8. Snap lighter open again to check.
9. Replace Tank Cover AS-800.

Below are pictured some of the many models you might encounter:

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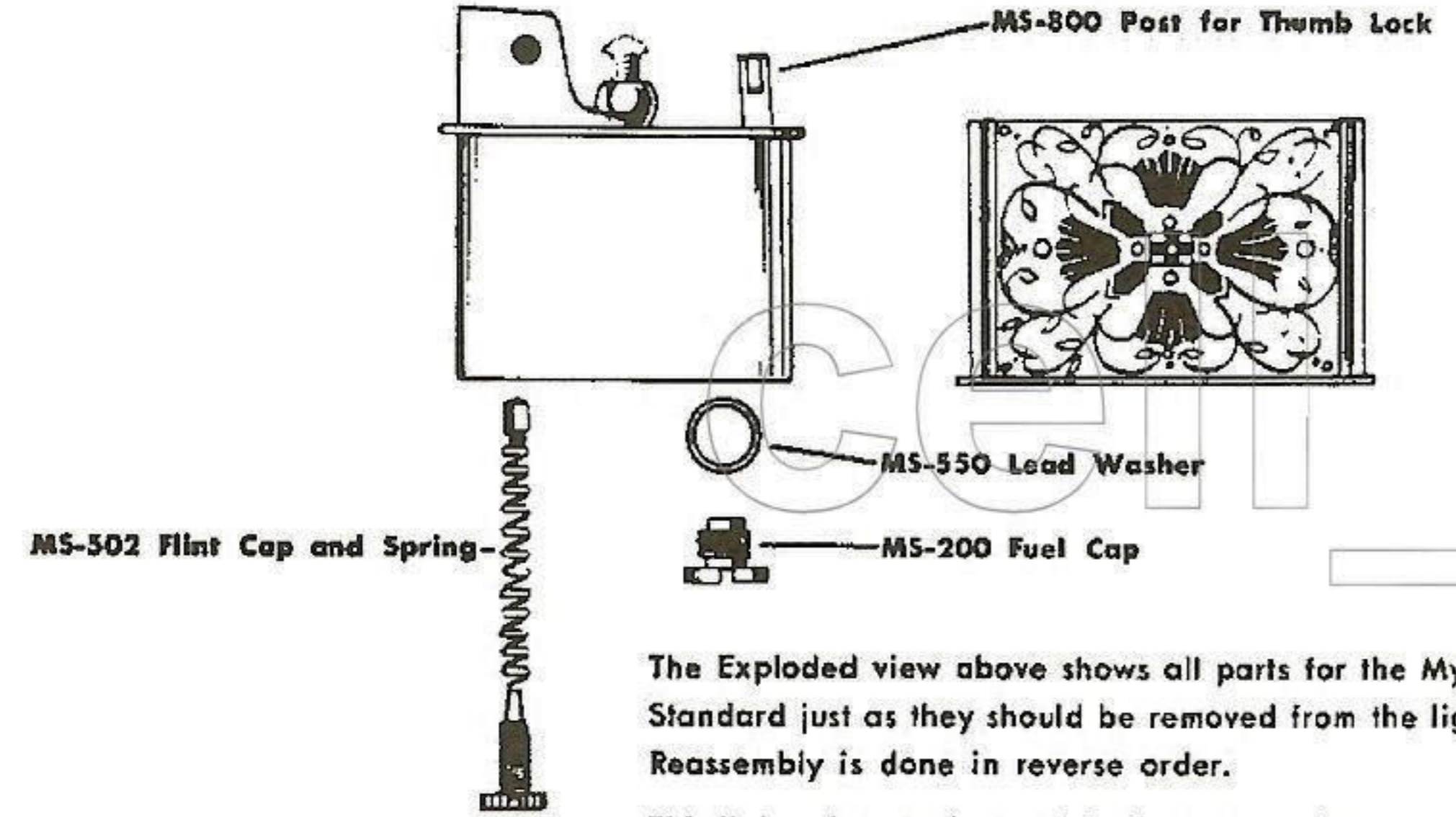
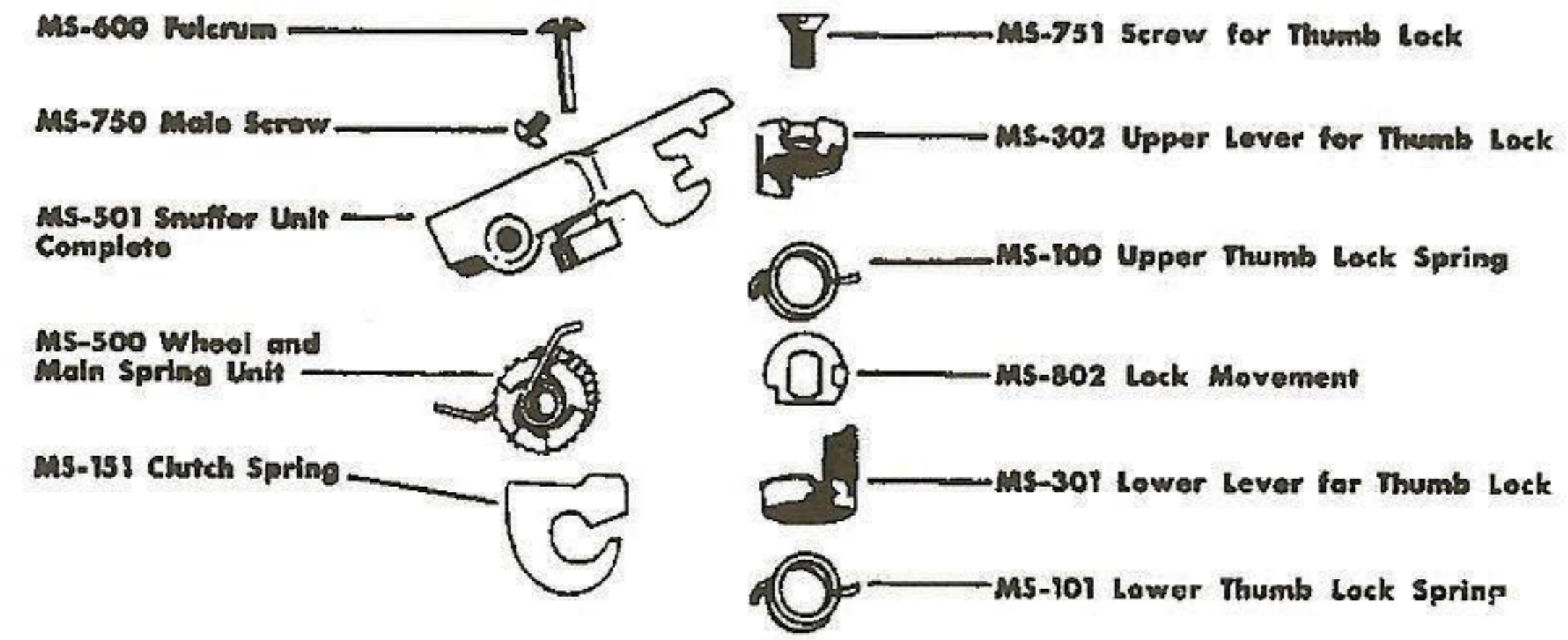
The most commonly broken part on the middle section sleeve are the small feet at the front. In order to avoid replacing the entire middle section, we suggest that, after repairing the lighter, the old sleeve be soldered in place. To do this easily, follow the directions below:



Note: AT-471 Cover Jig can be purchased from Lighter Parts, Inc.

WINDPROOF STANDARD

.....
B. MYLFLAM



The Exploded view above shows all parts for the Mylflam Standard just as they should be removed from the lighter. Reassembly is done in reverse order.

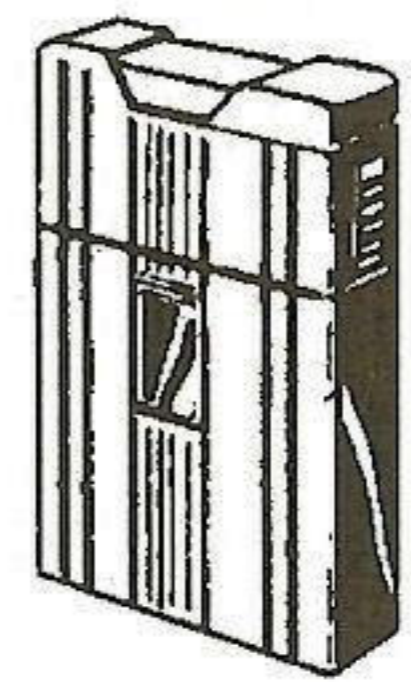
This lighter is manufactured in Germany and a great many were brought into this country by servicemen returning from Europe.

The Mylflam is also made in a ladies lighter which is smaller than the Standard and which uses standard parts. Ladies lighter is disassembled in the same way as the Standard.

There is also a Mylflam Table lighter which uses larger parts than the standard and is different in design. This lighter is disassembled in just about the same way.

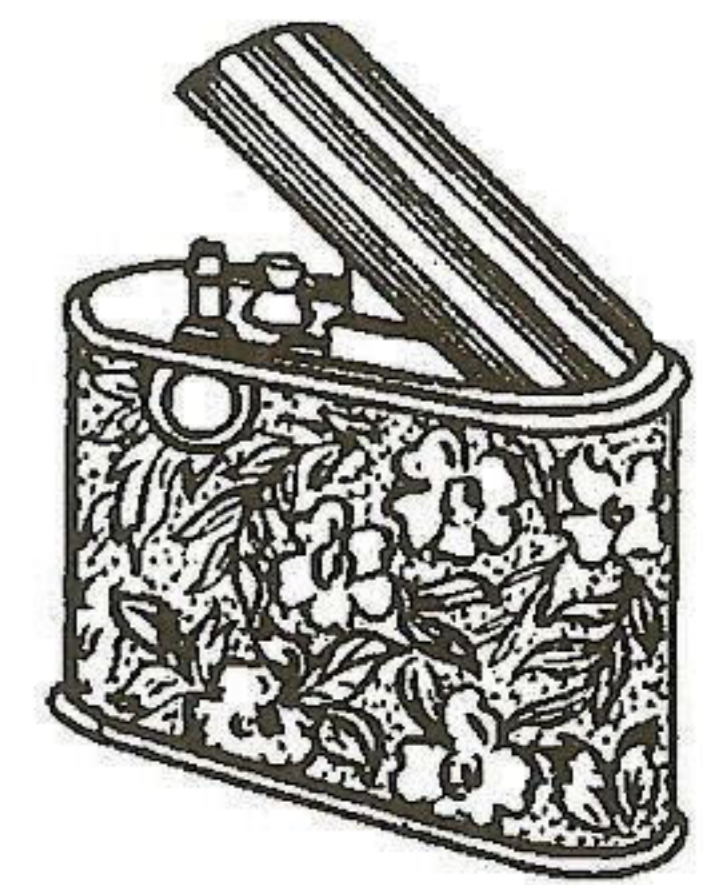
NOTE: There are several other German made lighters that work just like the Mylflam and for the most part the working parts are interchangeable. They are; The 1000 Lunder, The Blitz, and The Rowenta.

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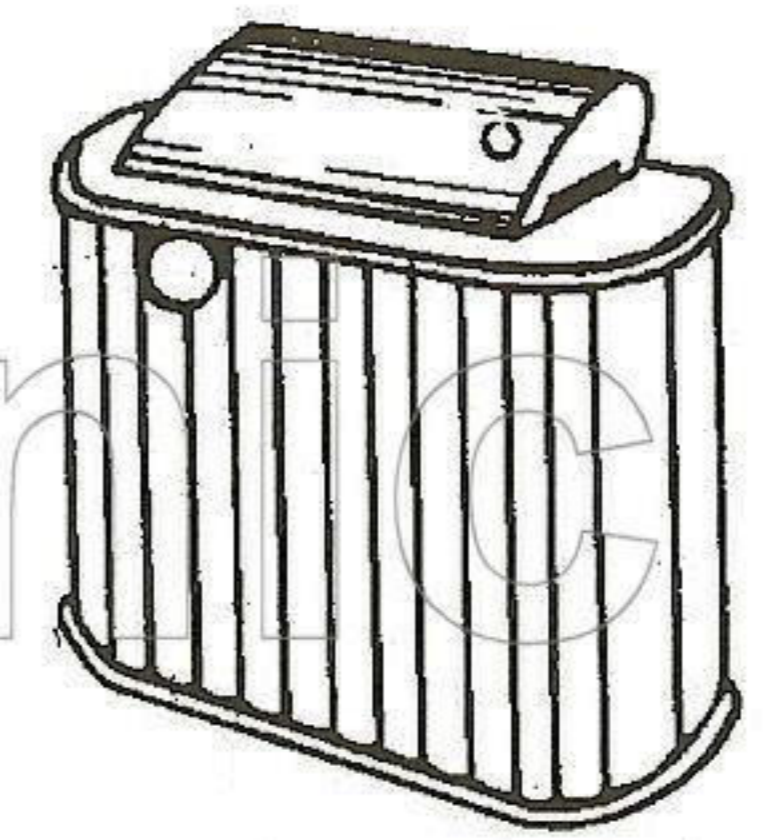


C. ELGIN AMERICAN
#1414 Magic Action Pocket Lighter

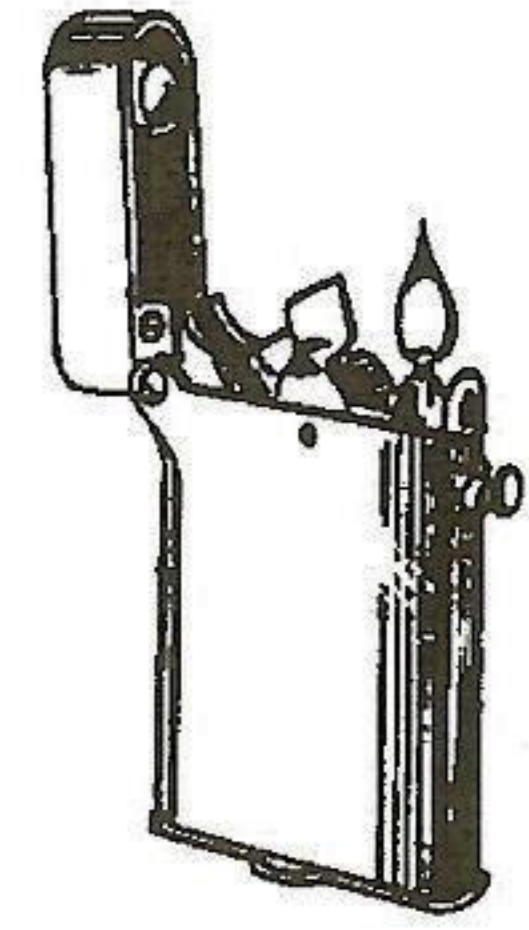
This works on the same principle as the A.S.R. lighter and is similar in design. Top is held together by fulcrum and screw instead of units and bushings. Parts are not interchangeable.



D. REGELITER

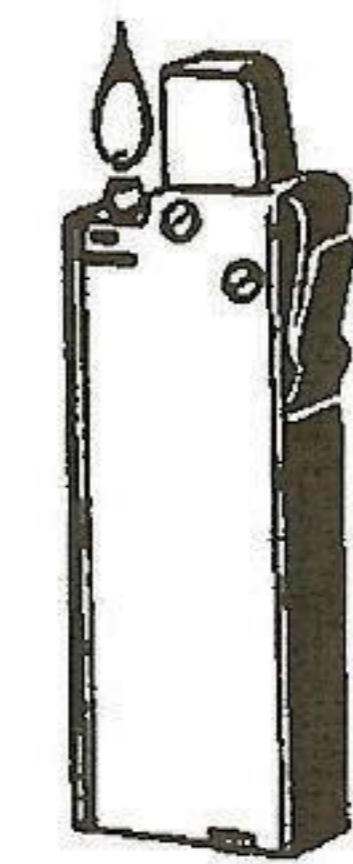


E. TOP HAT



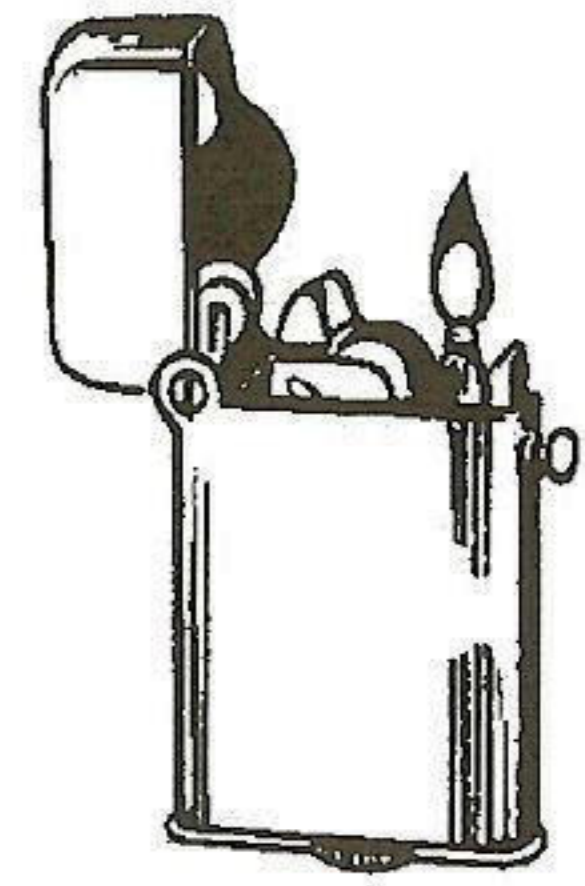
F. THORENS STD.

See Thorens section for illustrated diagram



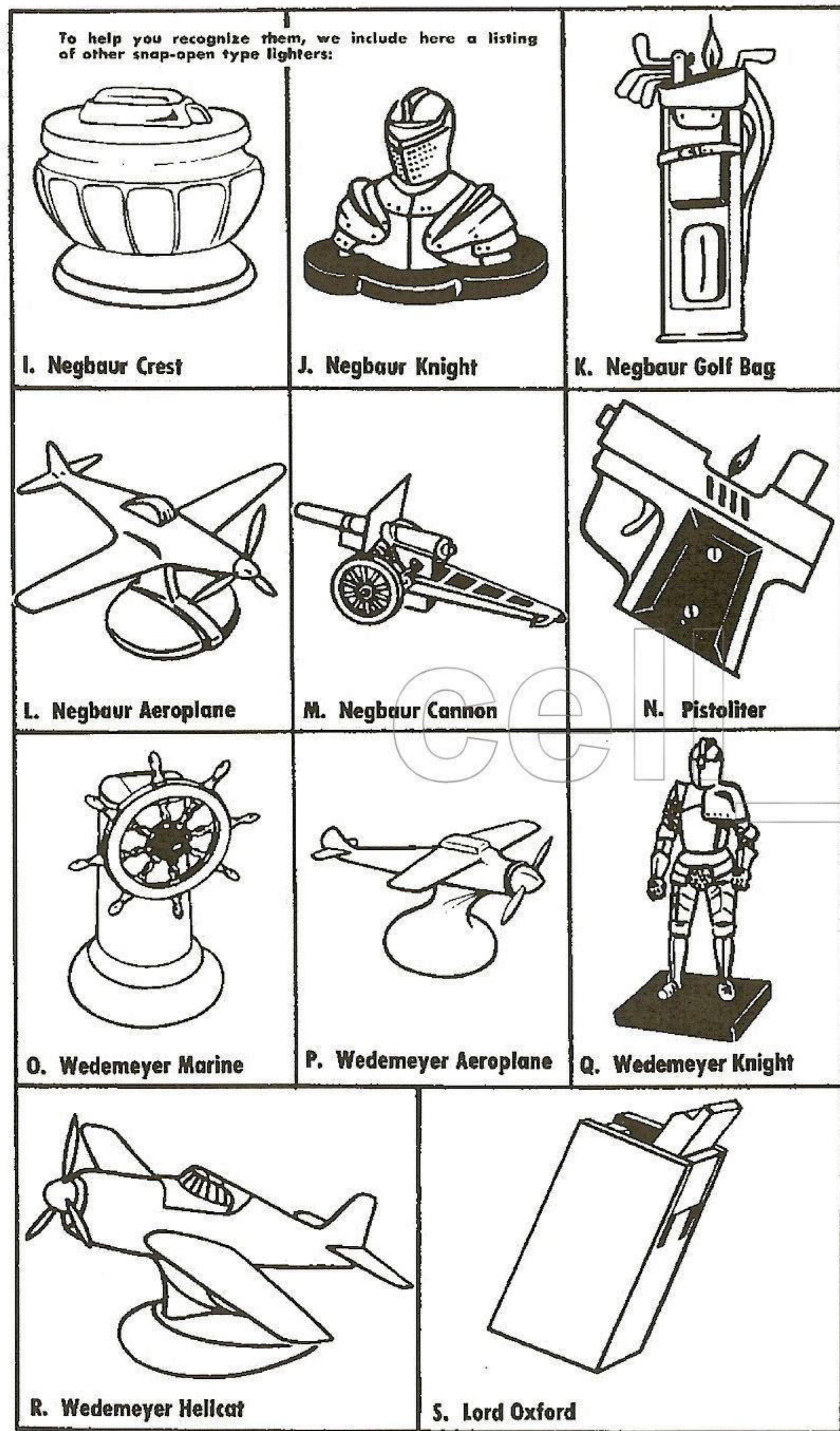
G. THORENS VETTE

See Thorens section for illustrated diagram



H. THORENS LADIES

See Thorens section for illustrated diagram



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SECTION III. SNAP-OPEN CASE COMBINATIONS

ELGIN-AMERICAN

A variation of the snap open type lighter is a case combination which operates in a unique fashion.

The bottom or case part of the lighter is a case in which cigarettes are carried, so you must first open the case which permits the user to take a cigarette; then upon closing the case door the top of the lighter unit snaps open and ignites, providing a light for the cigarette.

Actually on most of these case combination snap open type lighters, the lighter itself is a separate unit which slides into a housing provided for it at the top of the cigarette case.

The manufacturers of the various case lighters have gone to great lengths to make their case the best on the market.

Most of the cases are made with a variety of designs and finishes.

Some of the cases are made to hold ten cigarettes and others twenty.

Each different brand of lighter has its own special catch and trigger arrangement, but for the most part these all operate on the same principle.

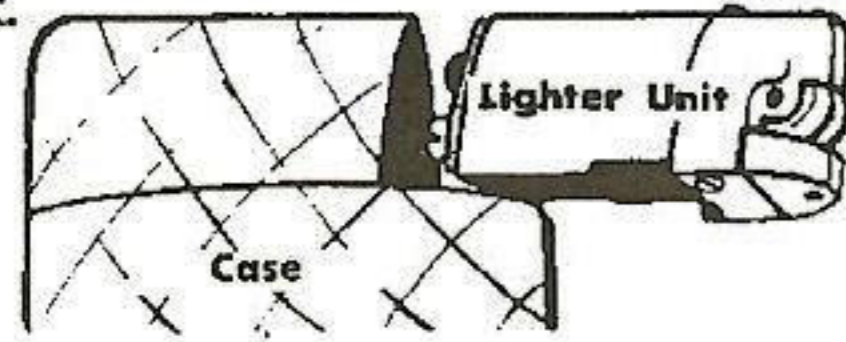
When the cigarette case door is closed you will find that at the very top, directly under the lighter housing, it causes a pressure against the trigger that is exposed there. This in turn presses against the release latch in the lighter and allows the top to spring open.

On the following pages you will find graphic illustrations on the *Elgin American Combination* case, which typifies this kind of lighter.

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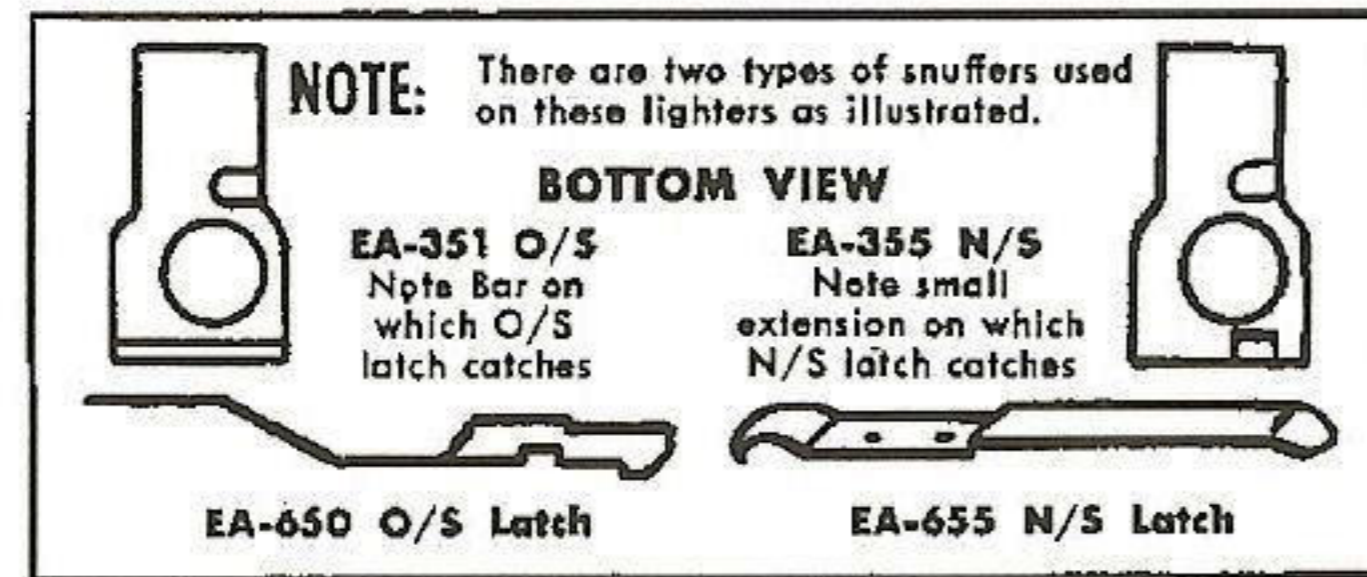
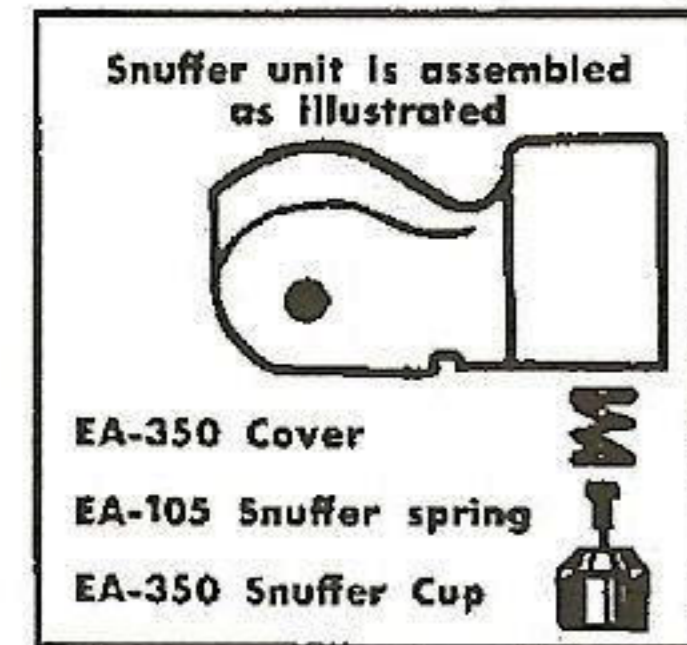
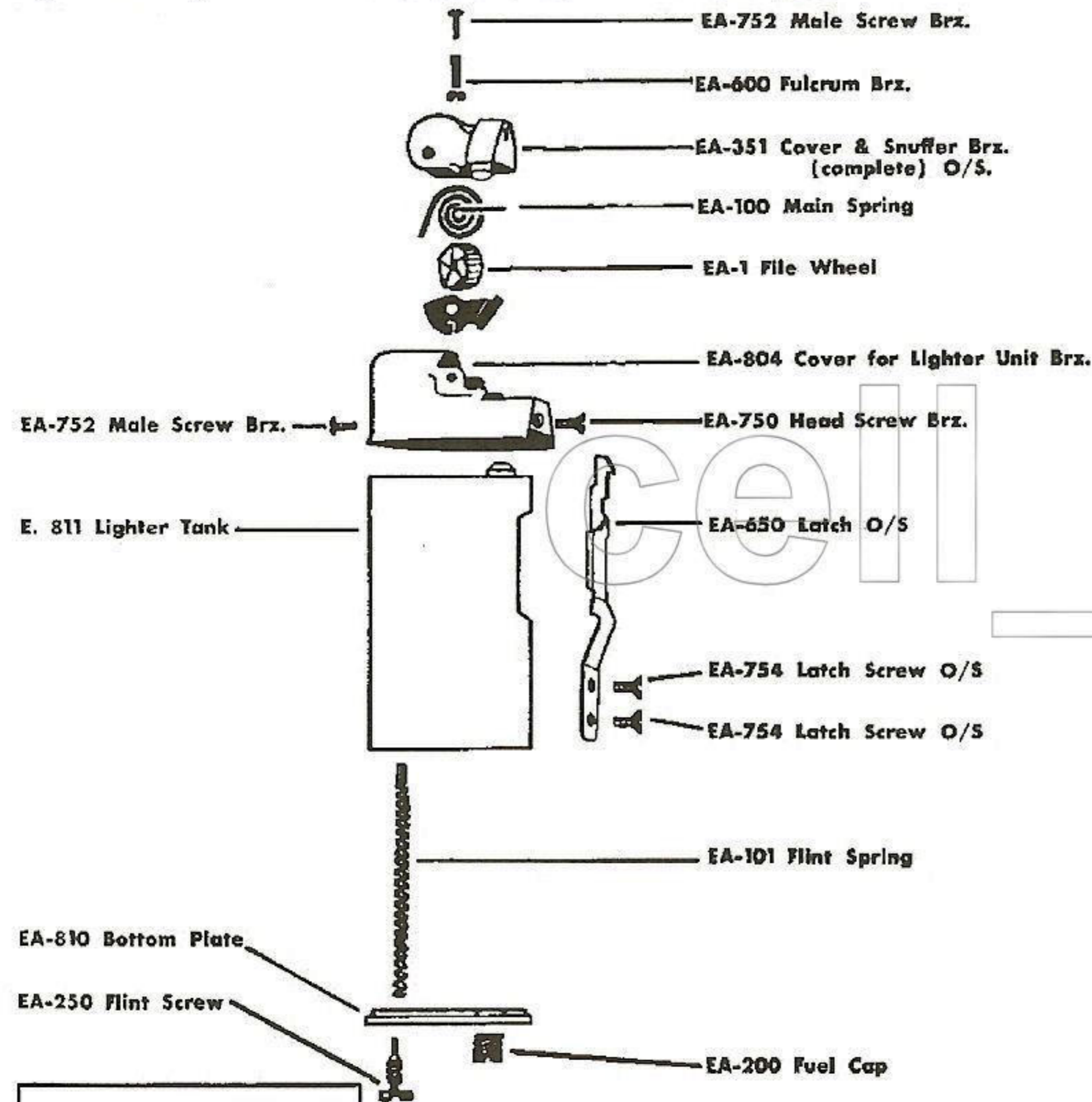
A. ELGIN AMERICAN #1394 CASE-LIGHTER COMBINATION

Lighter is operated by opening case, then closing door. This trips the latch that holds the snuffer down. It snaps up, turning wheel and igniting wick.



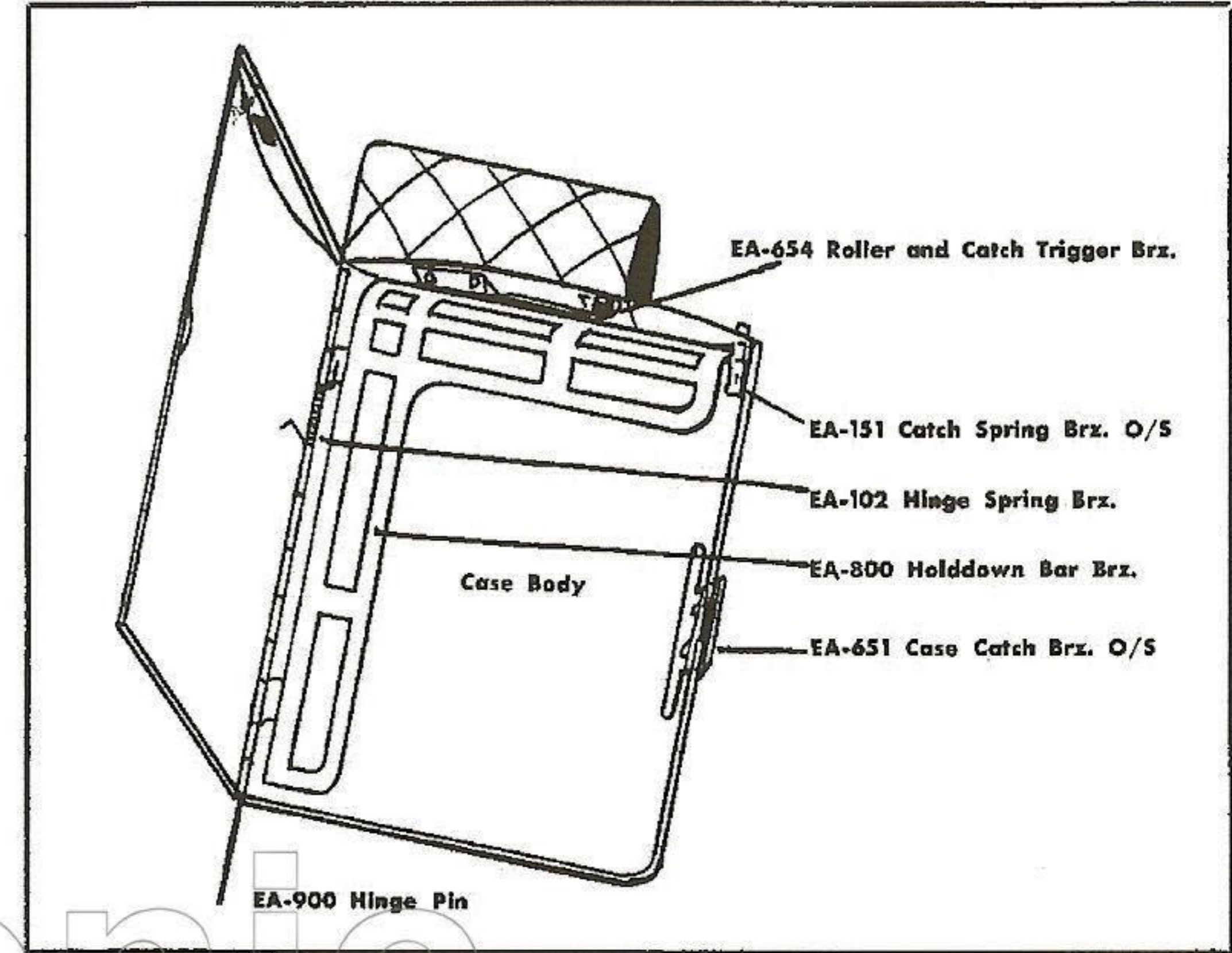
Below is an exploded view of the lighter unit from an Elgin American #1394 Case lighter. This unit slips into the top of the case as illustrated.

Parts pictured below are shown in the order they are removed from lighter. They should be reassembled in reverse order.

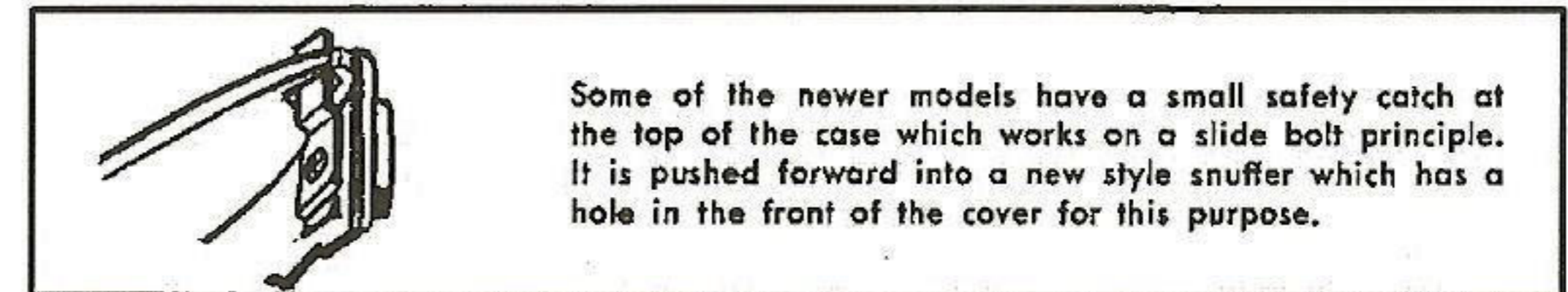


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CIGARETTE CASE FOR #1394 CASE LIGHTER

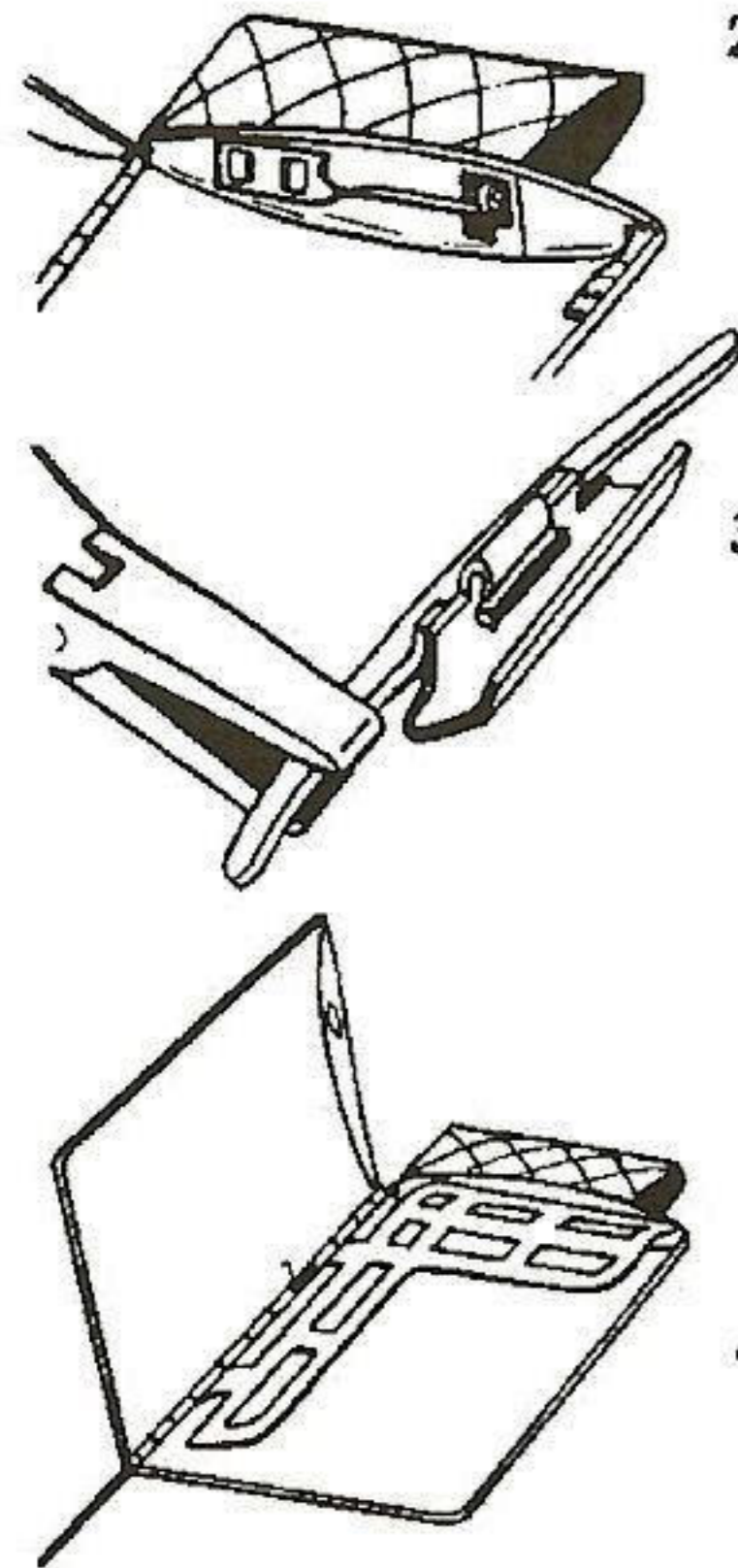


On newer model lighters several of the parts have been changed as listed below.



All of these case lighters are finished either in sterling silver, silver plate or bronze and they must be handled with great care to avoid damaging the finish.

**THE CIGARETTE CASE SHOULD ALSO BE EXAMINED
TO SEE THAT IT IS WORKING PROPERLY**



1. Check case for dents or bruises.
2. If it is necessary to replace EA-654 Roller and Trigger you must bend two small lugs upright to remove the old part and bend them back down again after the new part has been installed. Be very careful not to break these.
3. Replacing the catch requires a little skill. You will note that catch spring EA-151 is turned downward giving it tension against the case. Some type of tool such as wide mouthed pliers must be used to remove the tension by straightening out the catch spring. Then a half turn to the left should release the spring from the catch.
To replace with new latch, same procedure is followed except that you twist to the right.
4. To remove EA-102 hinge spring or EA-800 holddown bar simply push out EA-900 hinge pin.

There are also a number of terms which we use frequently and which you will be able to better understand if we define them for you.

Burling as used here means to grind material away with a ball shaped grinding tool either at the front or rear of a snuffer cup as described on Page 16.

Case also referred to as fuel tank. This is the body of the lighter in which the fluid soaked cotton is stored.

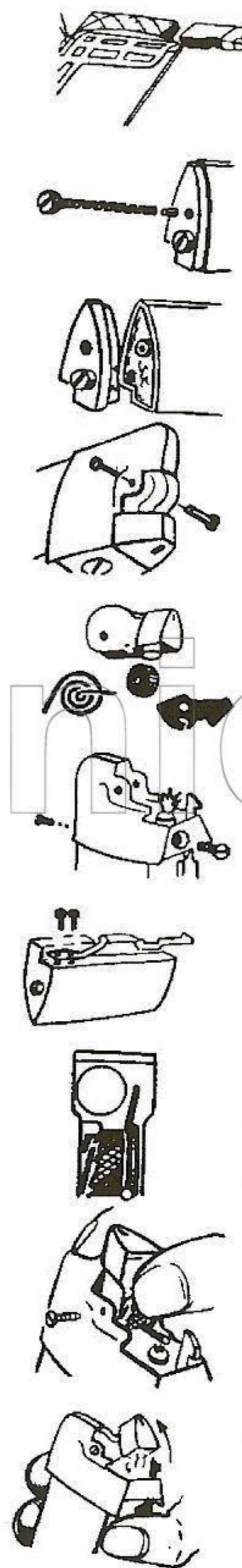
Fuel Well is a threaded hole at the bottom of the lighter into which you pour fluid to refuel the lighter.

Holddown Bar—this is the flat bar like part that holds the cigarettes in place in a case combination lighter. Pressure is applied by the hinge spring.

Lighter Posts, these are two flat sections which extend up from the top of the lighter, each has holes drilled through the center of it and it is through these holes that the fulcrum shaft is fitted to hold the top unit in place.

**THE DISASSEMBLY AND REASSEMBLY OF THE
ELGIN AMERICAN CASE COMBINATION #1394**

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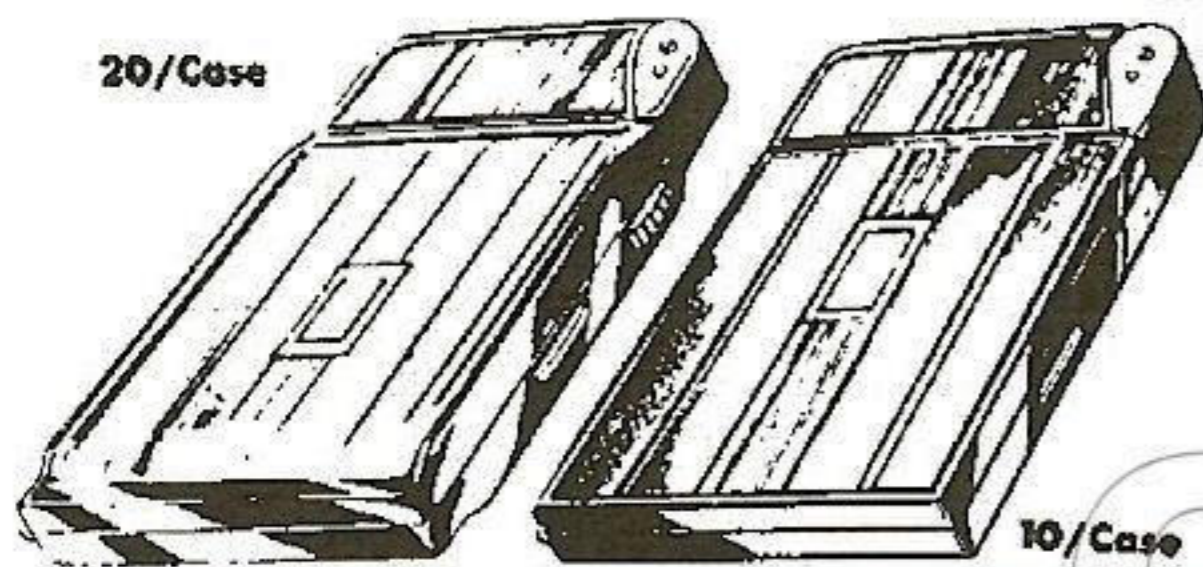
1. The first step in the disassembly is to remove the lighter unit from the case. This is done by opening the case door to relieve the tension against the trigger; then simply slip the entire lighter unit out of its housing.
2. First remove flint screw EA-250 and flint spring EA-101 and flint, to relieve tension on parts.
3. After the flint spring has been removed, bottom plate EA-810 can be slipped out of the bottom of EA-811 lighter tank.
4. You are now ready to disassemble the lighter movement itself.
5. First remove male screw EA-752.
6. Then using an awl or some similar tool, push fulcrum shaft EA-600 completely out of the snuffer.
7. This frees the entire snuffer unit which consists of EA-351 cover and snuffer complete, EA-100 main spring, EA-1 file wheel and EA-150 clutch spring. These parts are removed from the snuffer in the order mentioned.
8. Next remove EA-804 cover for lighter by taking out EA-752 male screw which holds the back in place, and EA-750 head screw which holds the front in place.
9. Next, remove EA-650 latch by taking out the two EA-754 latch screws that hold it in place.
10. Next remove EA-200 fuel screw to check threads.
11. Check all parts to make sure they are in good working order.
12. Replace EA-650 and EA-754 latch screws.
13. Replace EA-804 cover for lighter and EA-750 and EA-752 cover screws.
14. Now replace the parts in the snuffer just as they are illustrated in the main diagram.
 - A. First replace EA-100 main spring with the long extension of the outside coil pointing downward.
 - B. On top of this place EA-1 file wheel with the ratchet side up.
 - C. On top of the wheel place the clutch spring with the bent portion toward the front of the snuffer and the cut facing the bottom.
15. Holding all these parts in place you must now seat the cover and snuffer into the lighter cover. To do this be sure that the snuffer is facing upward in its open position.
16. Line up the holes and place EA-600 fulcrum and EA-752 male screw.
17. Replace EA-810 bottom plate, then flint, EA-101 flint spring and EA-250 flint screw in that order.
18. Close the snuffer and release it a few times by pressing on latch, EA-650.

B. METALFIELD—"ALADDIN" OR "TWAIN-LITE"

The next in this series of snap-open case lighters is a lighter that was marketed several years ago by Metalfield Inc. of New York City. They called their lighters "The Aladdin" and "Twain-Lite". Lighters were made in two colors; bronze and chrome. Some models were also finished partially in baked enamel on the cigarette case and the lighter housing.

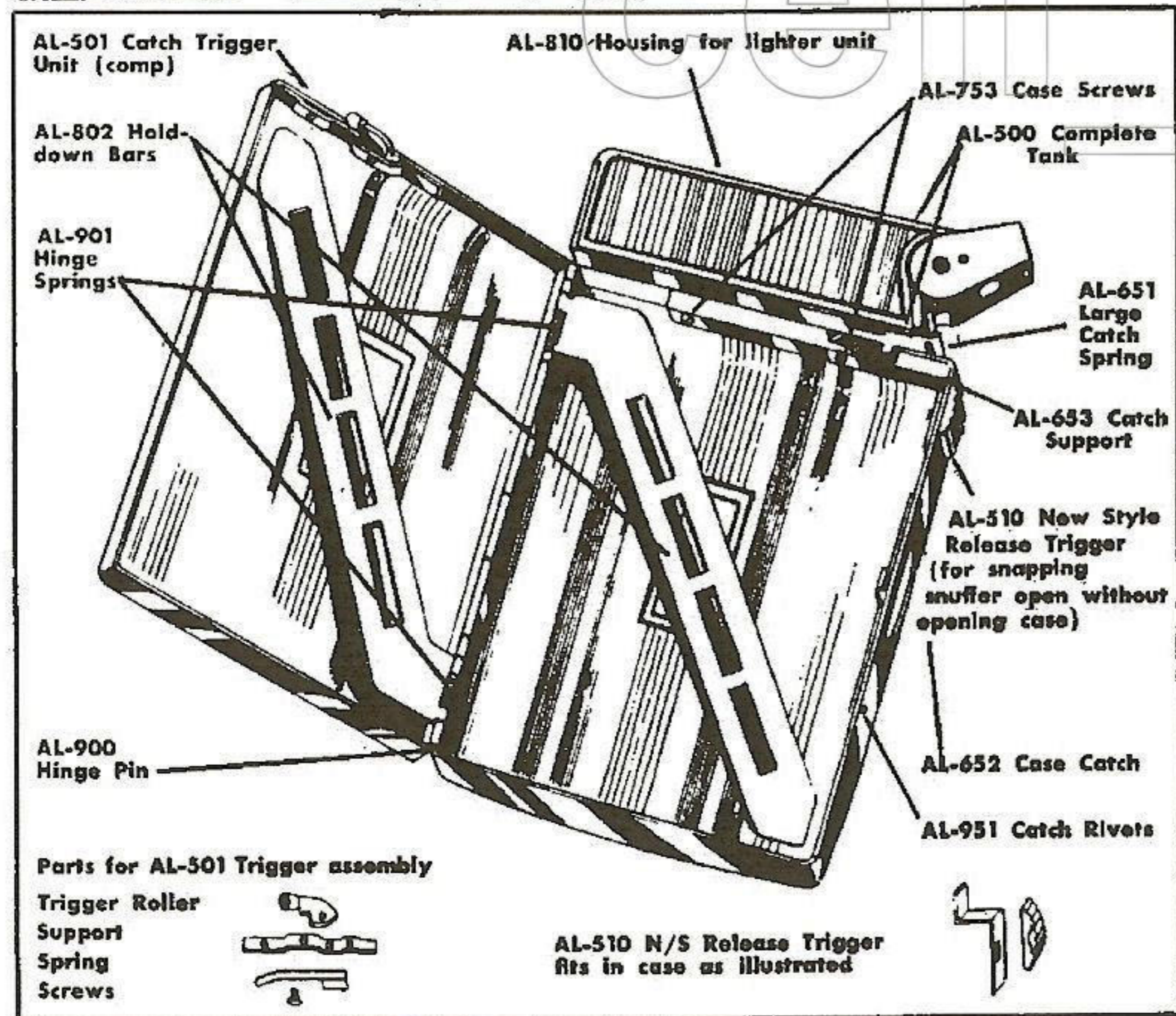
The Metalfield company is no longer in existence and their dies and tools have been taken over by Elgin American of Elgin, Illinois who are now producing the lighter under the name of AMERICAN BEAUTY. The only change they have made is that the lighters are now finished in gold or silver plate instead of bronze or chrome.

THESE LIGHTERS ARE MADE IN TWO SIZES:



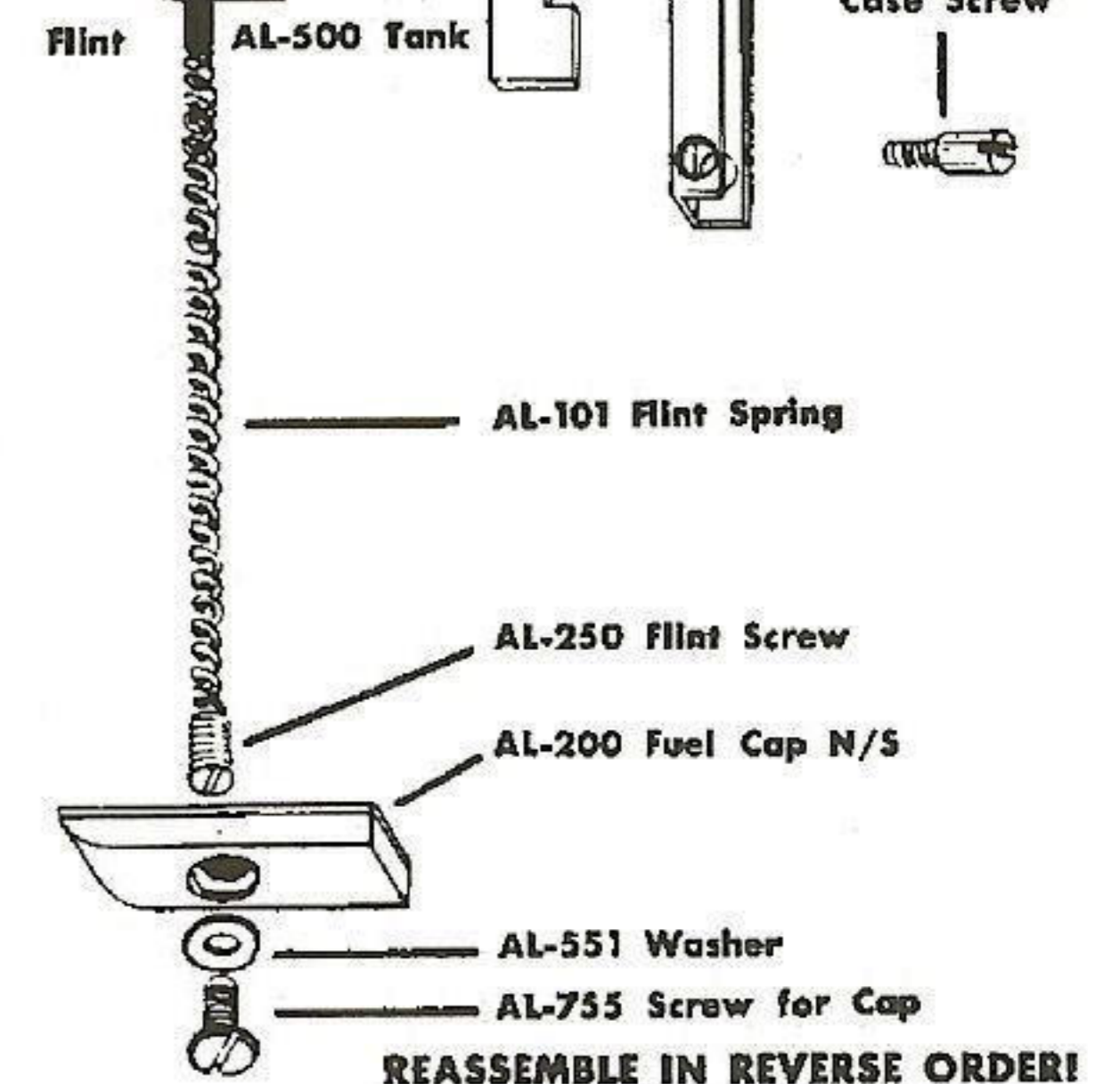
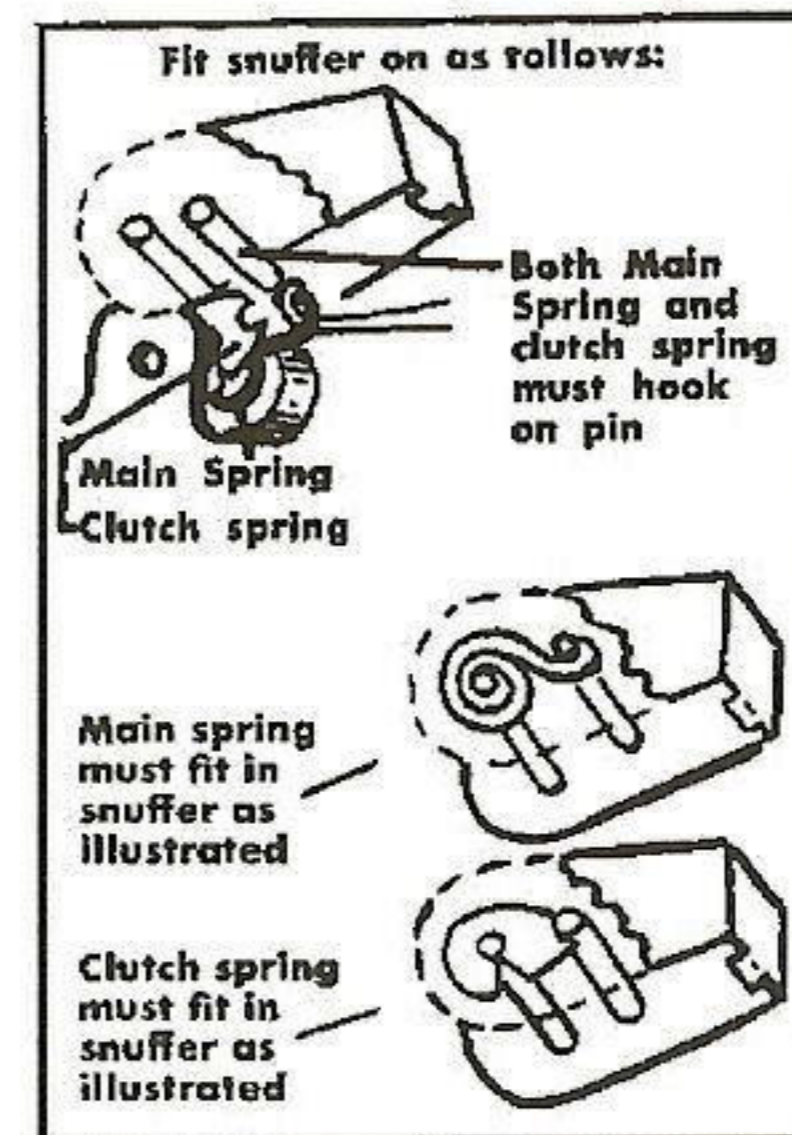
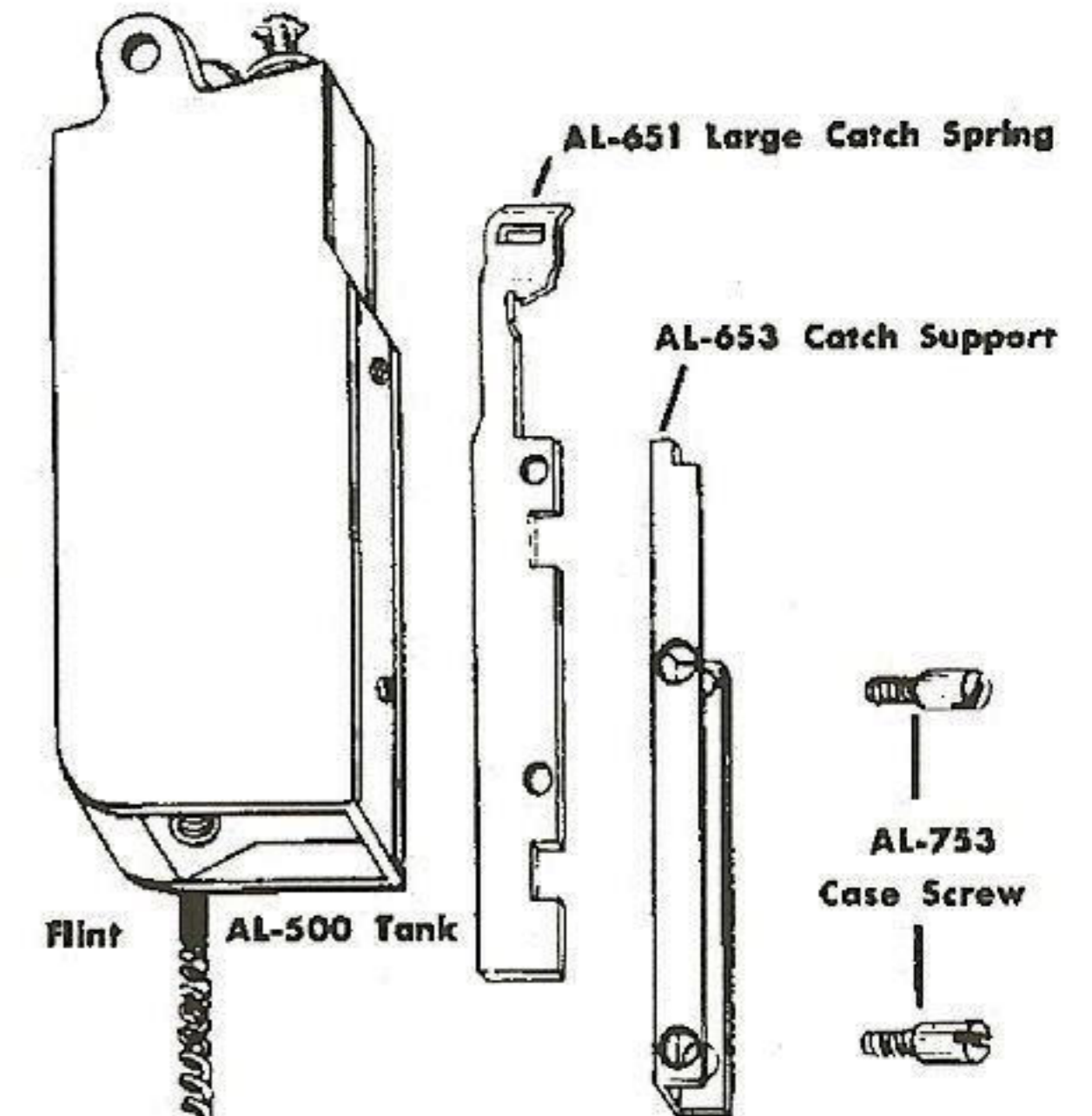
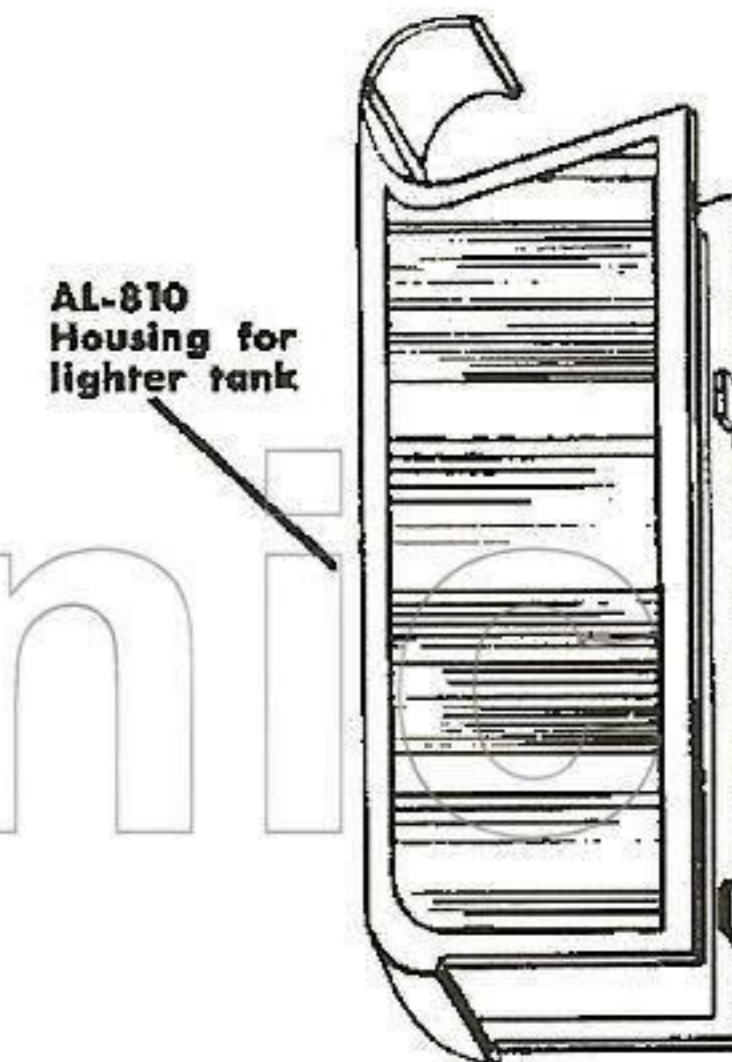
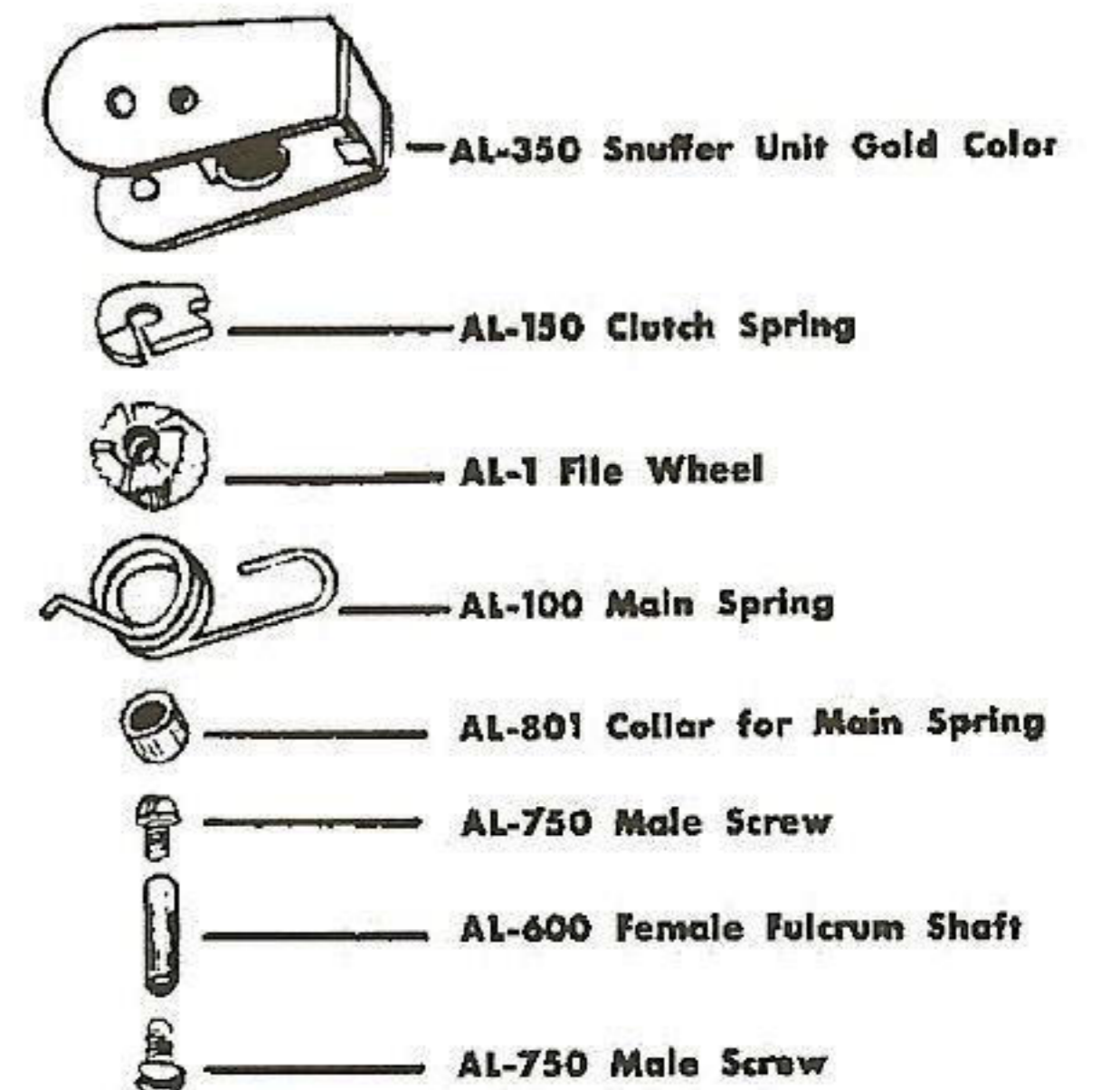
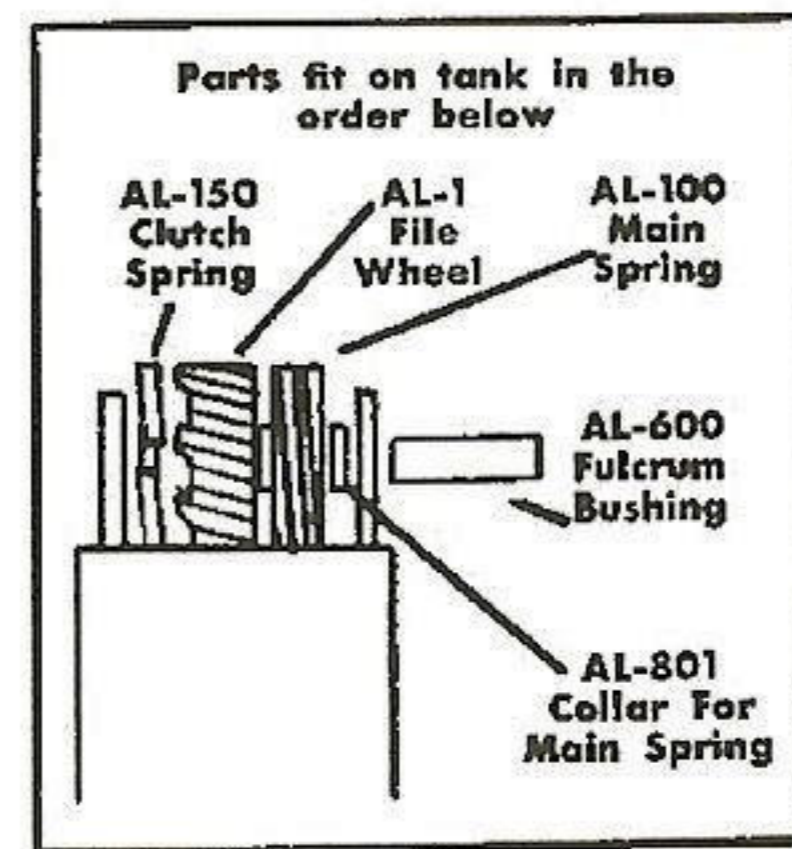
They are very similar in basic design to the Elgin American Case and they operate on the same principal.

Diagram below will show you the major difference, but the same methods of disassembly and reassembly are used.



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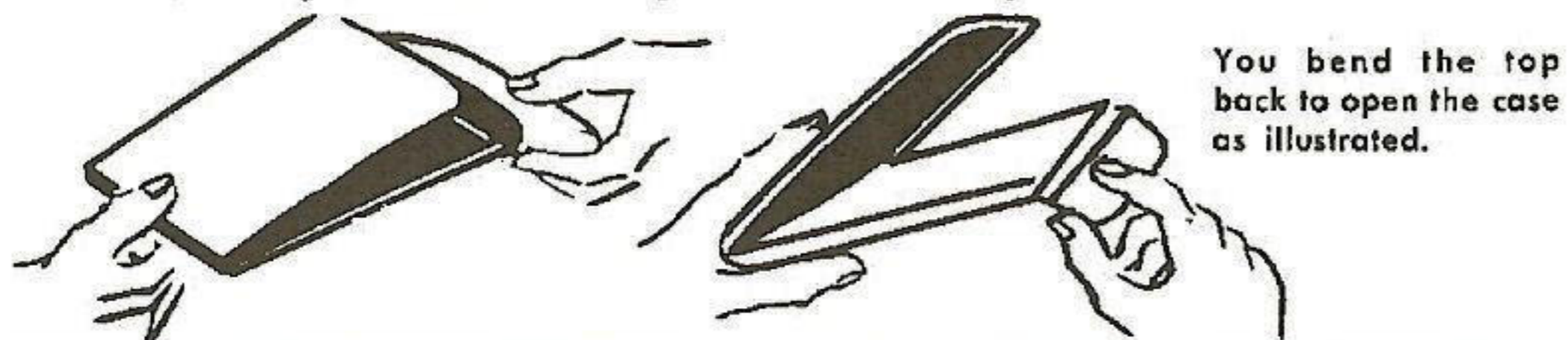
ALADDIN LIGHTER UNIT IS DISASSEMBLED AS ILLUSTRATED



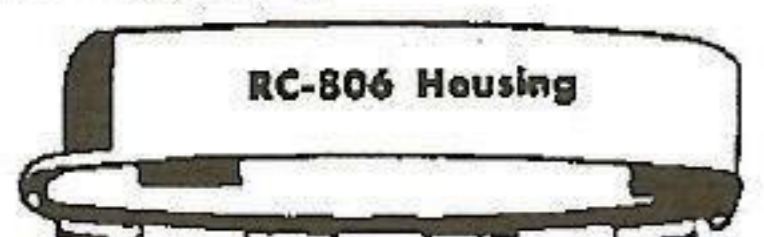
REASSEMBLE IN REVERSE ORDER!

C. THE ROYAL CASE-LITE LIGHTER

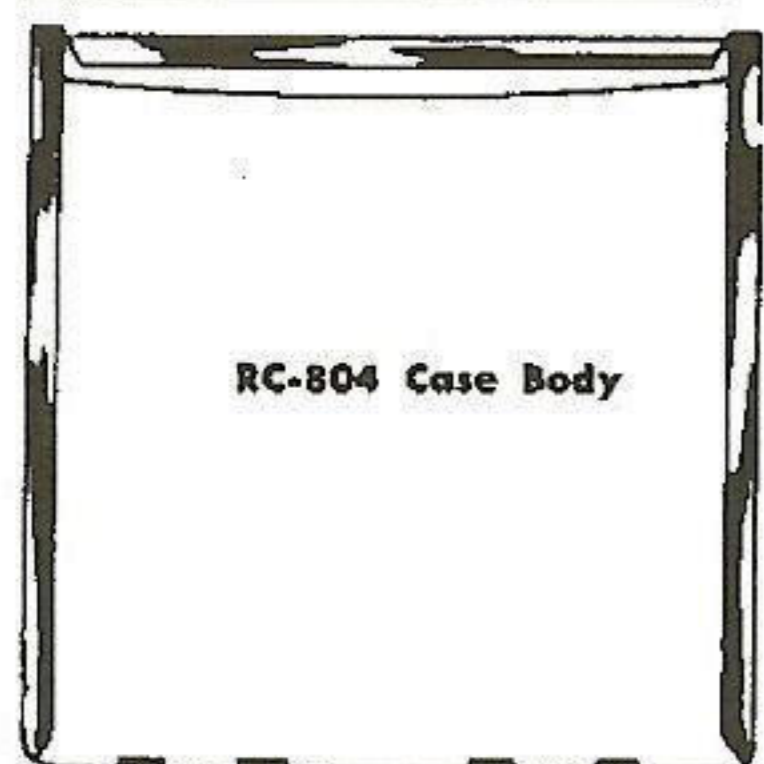
This lighter follows the same pattern as the Elgin American and Aladdin, except, the case is opened differently:



The lighter Case is made up of the following parts.



RC-901 Housing Hinge Wire



RC-800 Cigarette Holddown Bar

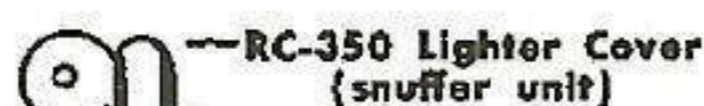
RC-100 Hinge Spring

RC-900 Hinge Pin

RC-800 Cigarette Holddown Bar



The lighter unit which fits into the housing is made up as illustrated below.



RC-103 Main Spring

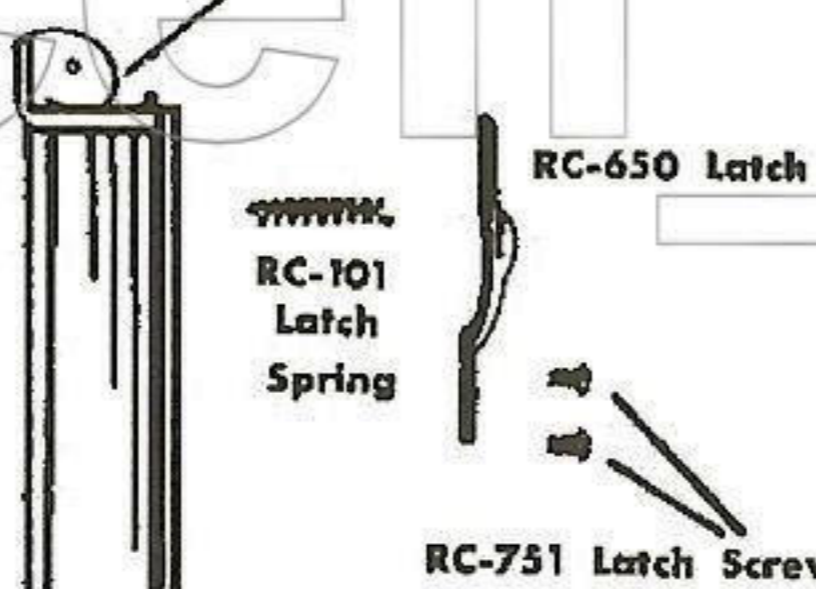
RC-150 Clutch Spring

RC-1 File Wheel

RC-750 Male Screw

RC-600 Fulcrum Shaft

RC-807 Tank



RC-101 Latch Spring

RC-751 Latch Screw

Flint RC-550 Washer

RC-200 Fuel Screw

RC-102 Flint Spring and Tip

RC-250 Flint Screw

Disassemble the lighter unit in the order illustrated above and reassemble in reverse order.

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There are two other case-lighters on the market which operate exactly like the Royal Case Lighter and which are disassembled and reassembled in just the same manner. They are:

The "URISLITE", and the "KIMBERLY CASE-LITE"

On both of these lighters, certain parts from the Royal Case Lite can be used.

The File Wheel	RC-1	The Fuel Screw	RC-200
The Clutch Spring	RC-150	The Flint Screw	RC-250
The Main Spring	RC-103	The Flint Spring	RC-102
The Fulcrum Complete		RC-600	

The above parts can all be used on most types of either lighter named above.

The lighter tank from Royal Case Lite is too small and will not fit snugly in the housing of either lighter.

The housing itself will not fit because the hinges are not in the same place as those on Royal Case Lite.

On many of the Kimberly and Urislite models, the catch is soldered to the lighter unit instead of being held by screws.

Several different styles of holddown bars are used in the cigarette case but these are, for the most part, fitted into the case just as the Royal Case Lite holddown bars are.

We recommend that you look these lighters over carefully before accepting them for repair, as only the parts we mention above are available.

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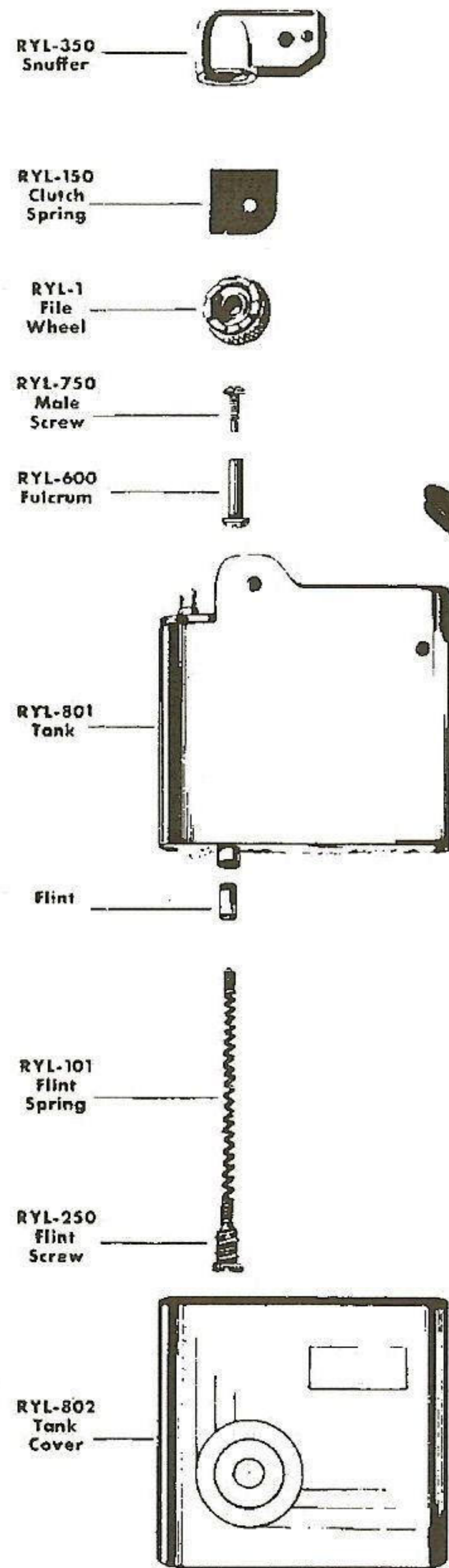
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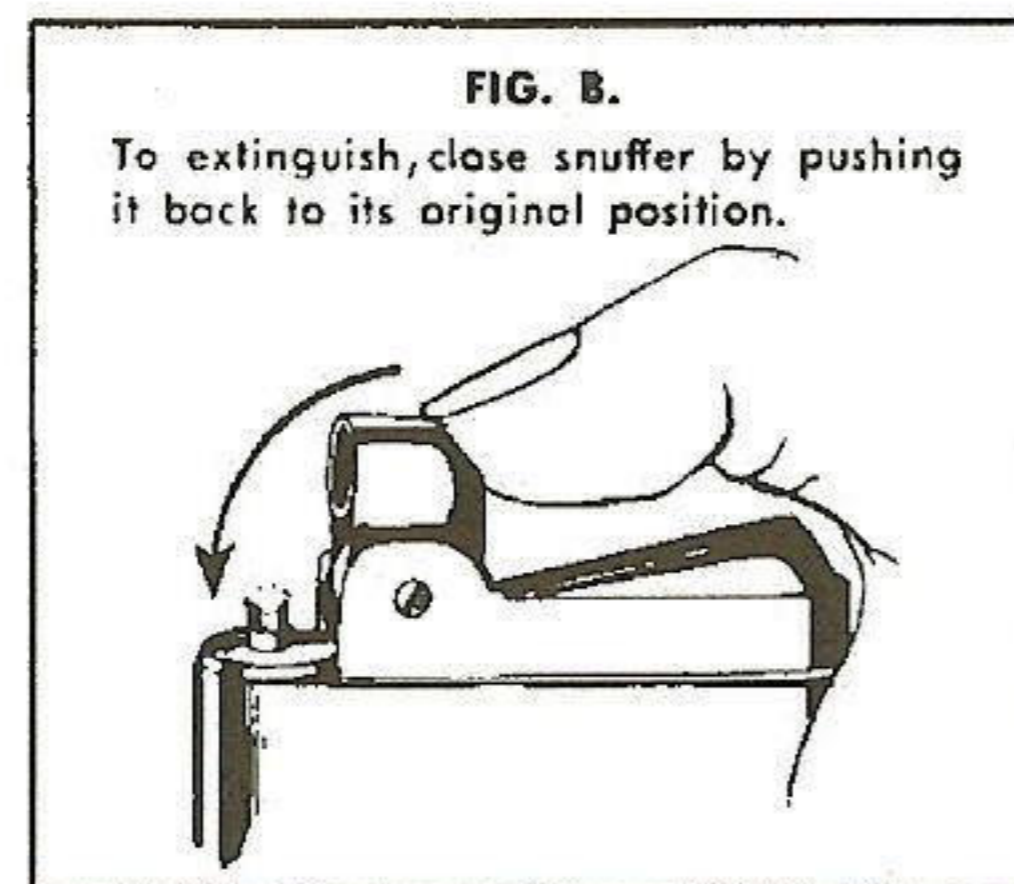
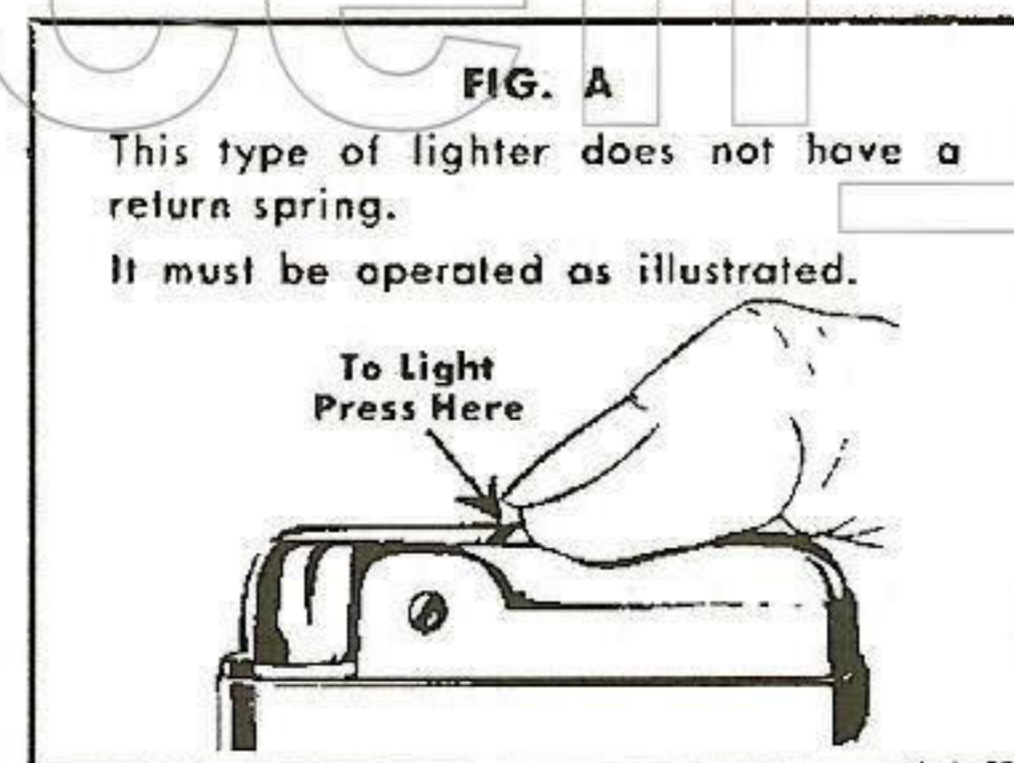
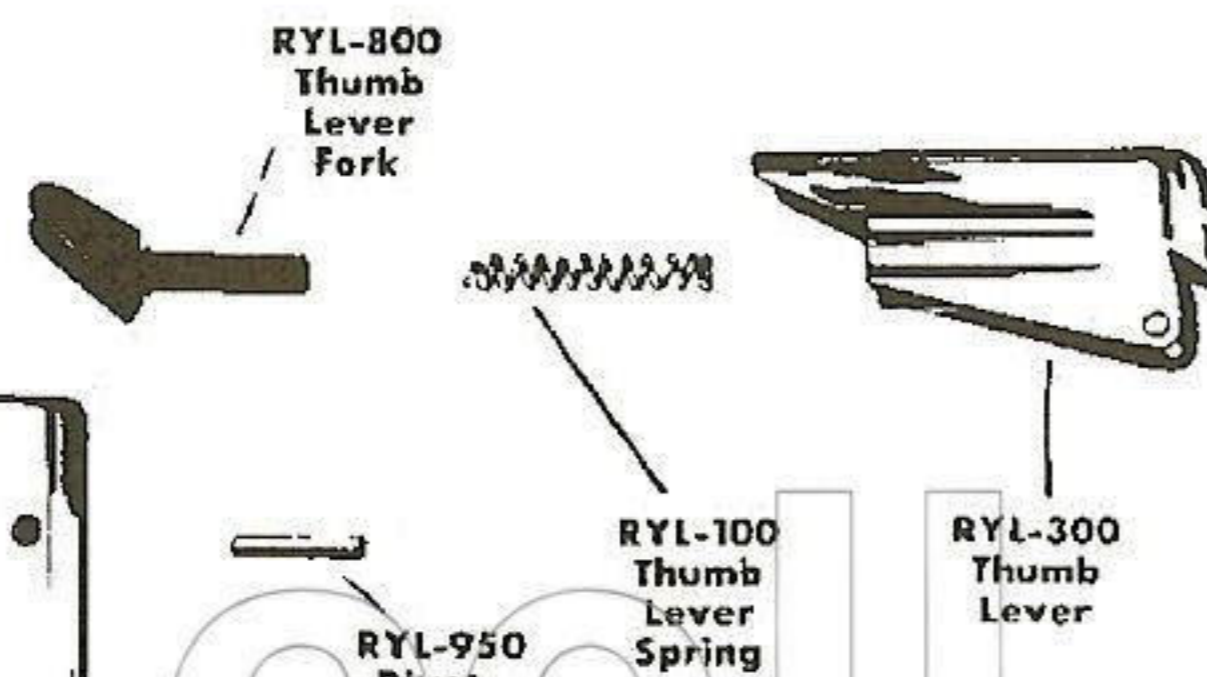
SECTION IV. THUMB PRESSURE TYPE
(No Main Spring)



A. ROYALITER

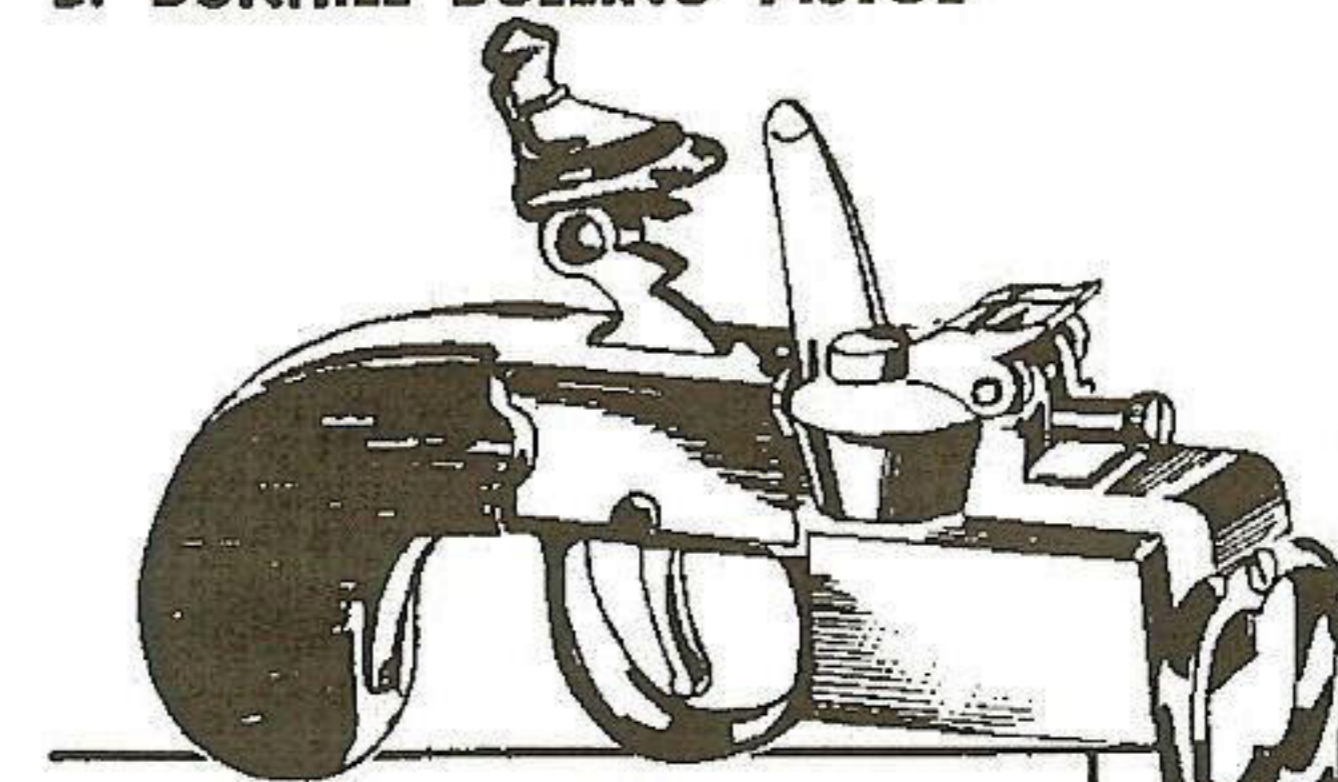
This type of lighter is not automatic. It must be operated by a pressure of the thumb or finger on the actuator. Some of these lighters have a return spring which closes the snuffer after it has been opened and used and others must be both opened and closed manually.

We have chosen the Royaliter to best illustrate this type and the drawings below will better describe just how they work.



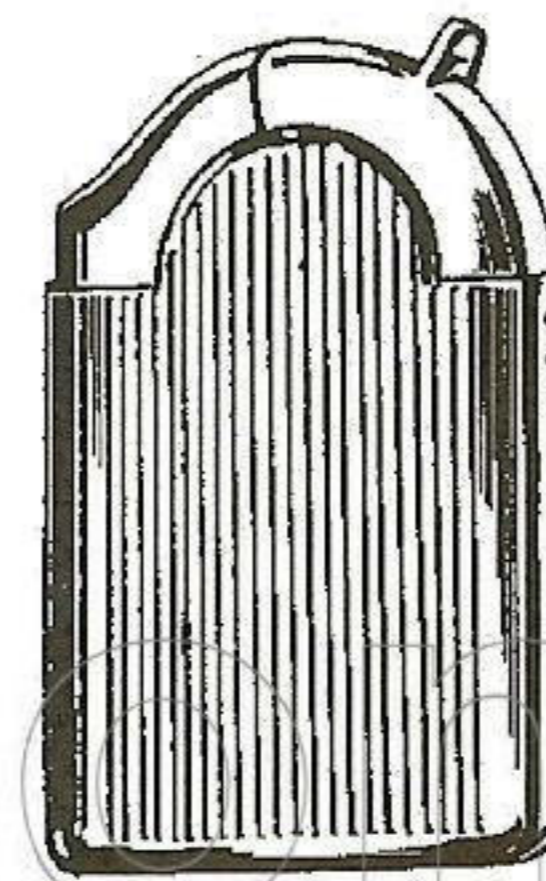
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B. DUNHILL DUELING PISTOL



Pull trigger to operate.
Release it and a spring will return it to its original position.

C. SPEED



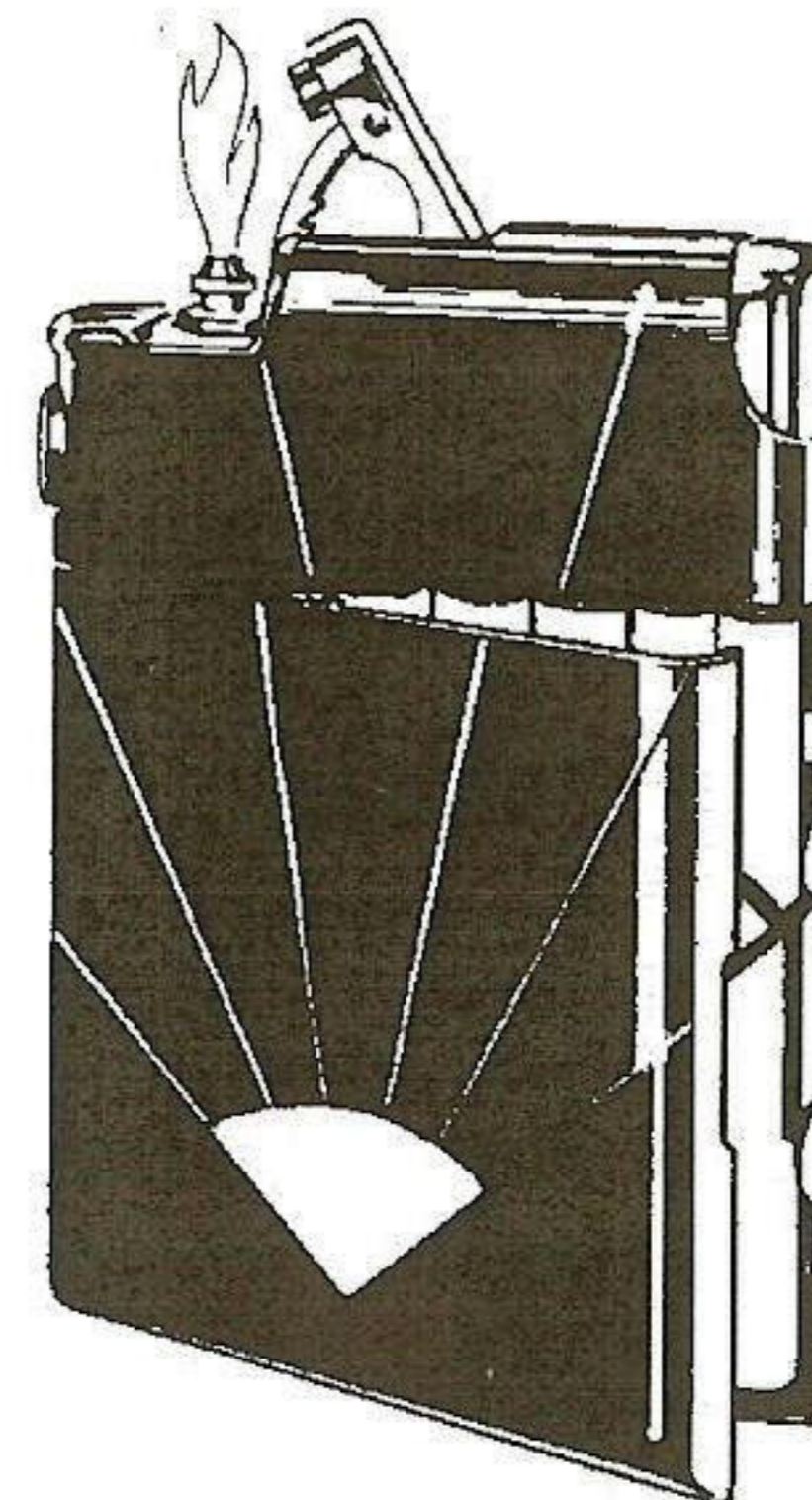
Press top action back to ignite.
Release it and spring will return it to original position.

D. DOME



This is operated the same as speed.

E. MARATHON

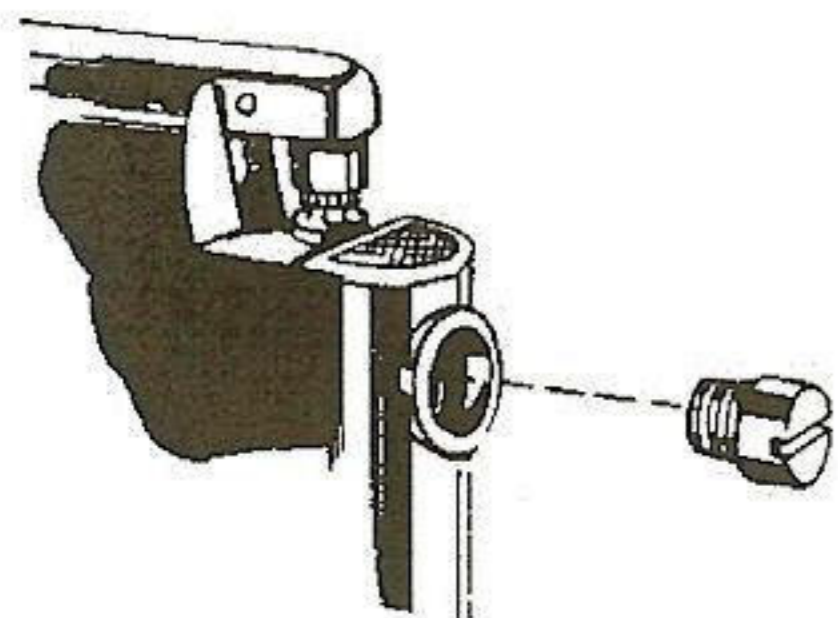


This lighter is another pressure type, but operates in a slightly different way.

Note first that it is a case combination.

The disassembly and reassembly are a little more complicated than the general run of lighters so we will describe them for you, on the following pages.

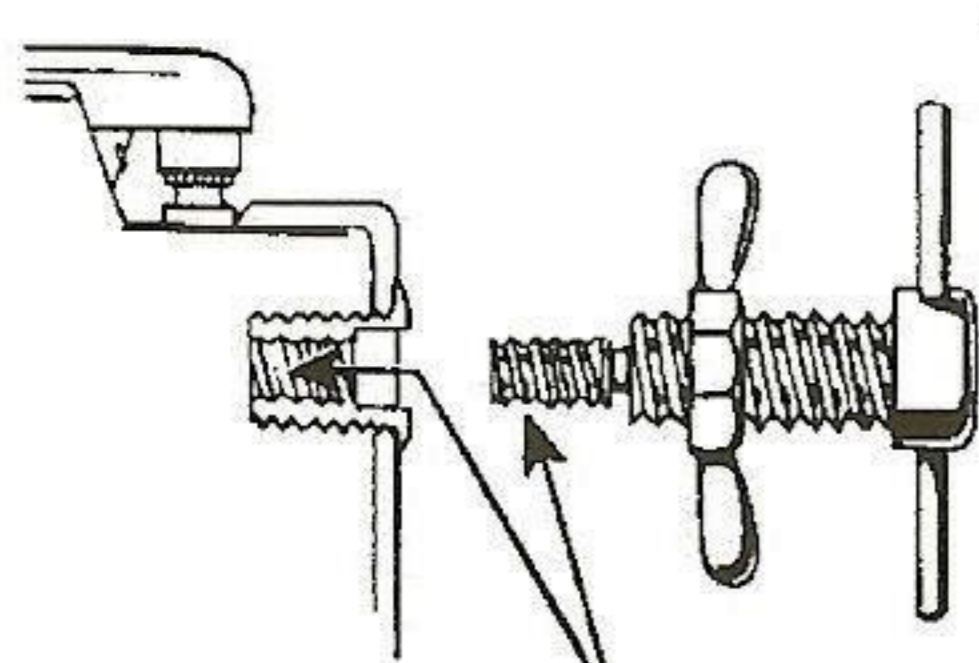
1. The first problem is to get the lighter unit out of the case. This is done as illustrated.



A. Remove fuel screw (male) MA-202



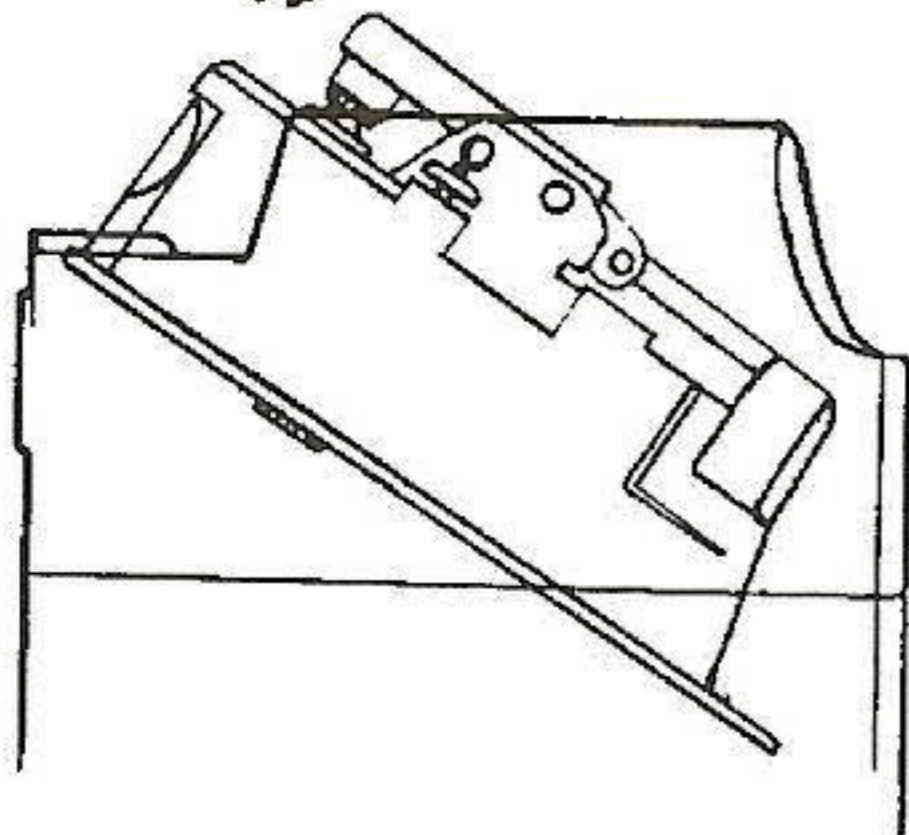
B. To remove the fuel bushing MA-201 we recommend a jig to be made, as these bushings are usually set in place with cement. Note that bushing is threaded both inside and out.



Threads here same as inside of bushing.



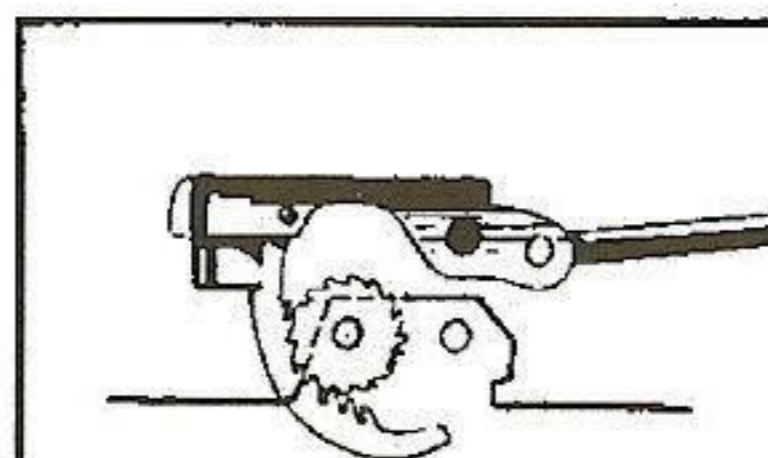
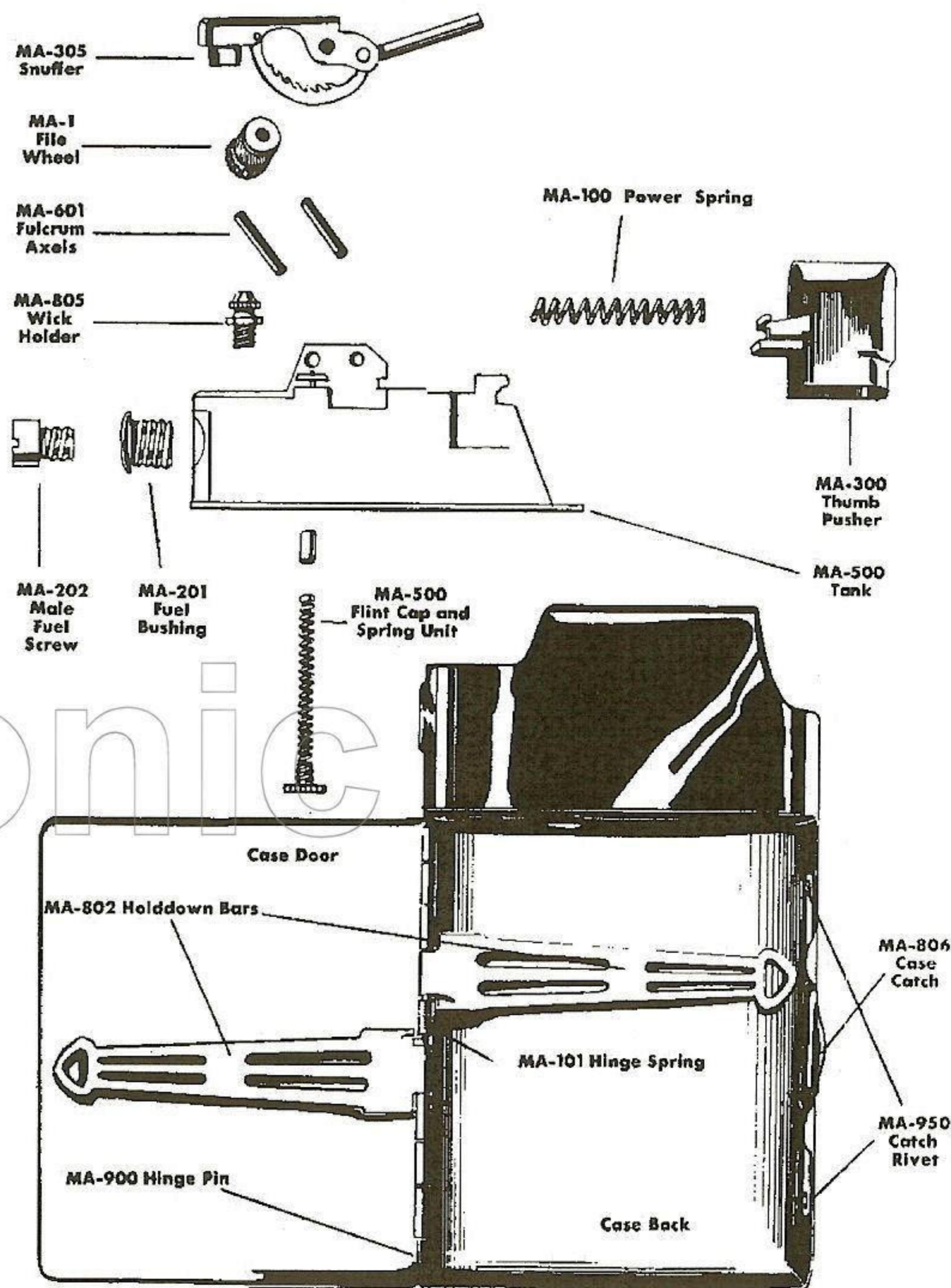
C. Unscrew chimney (Wick Holder) MA-805 with pliers and remove.



D. Now push tank down and out of case while holding in thumb pusher MA-300.

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Disassemble lighter unit as illustrated below:

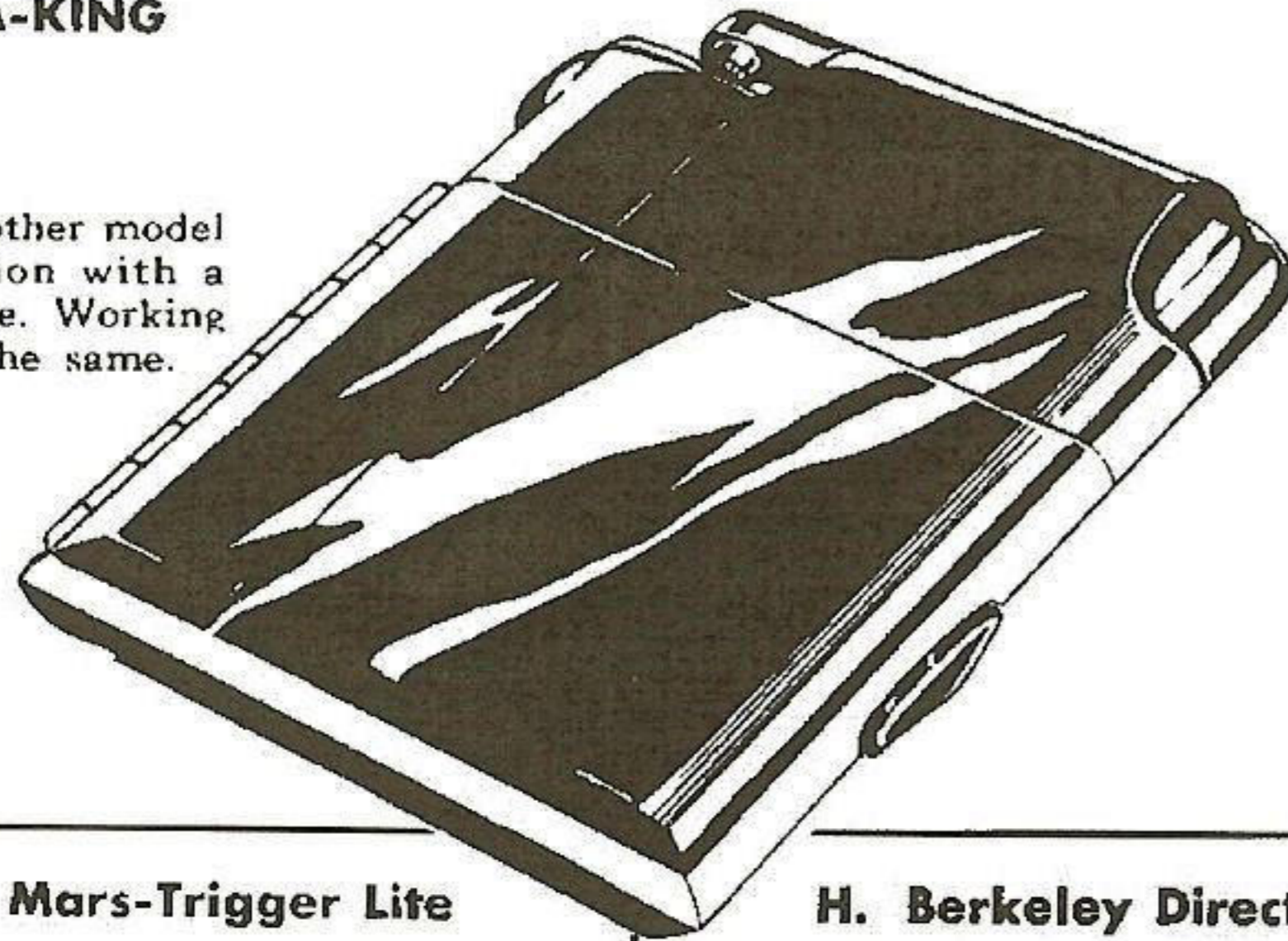


Parts of this lighter are constructed similarly to the Evans. Note that the ratchet arm on snuffer MA-305 must hook under the ratchet side of file wheel MA-1 and the large coil spring inside the snuffer must be pulled down to catch the plate provided for it in the lighter tank. This is the spring that returns the snuffer to its original position.

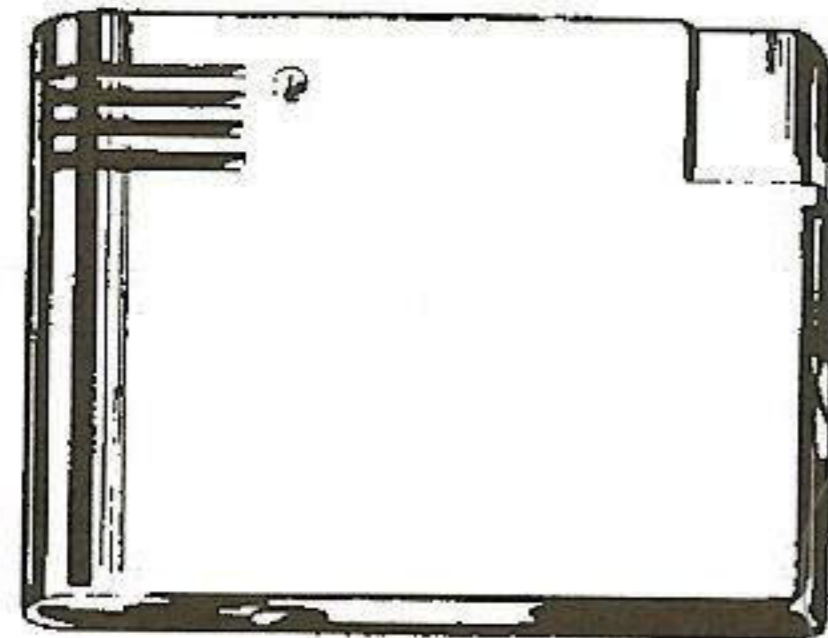
REASSEMBLE IN REVERSE ORDER

F. MARA-KING

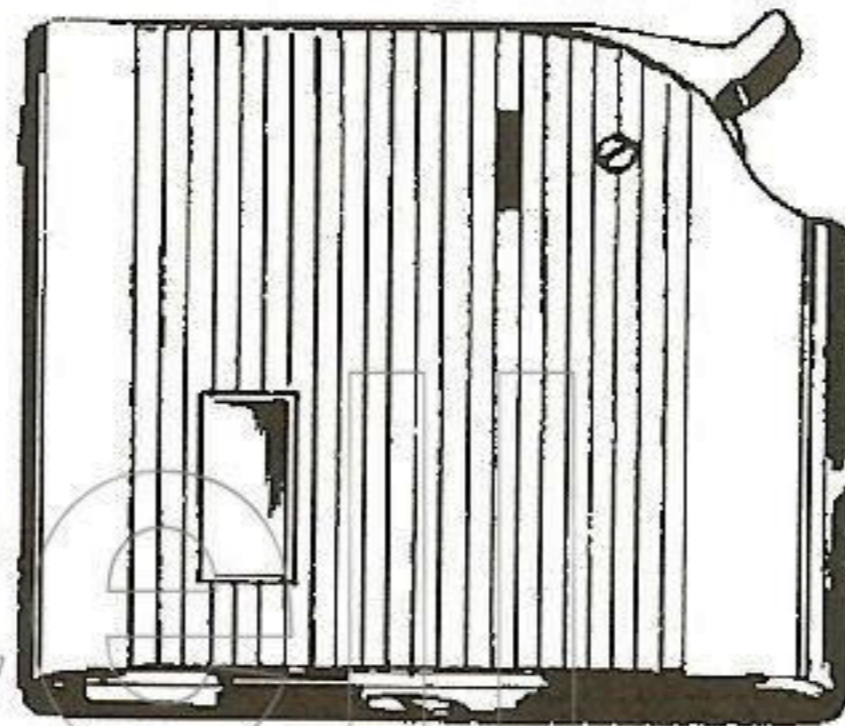
This is another model of Marathon with a shorter case. Working parts are the same.



G. Mars-Trigger Lite



H. Berkeley Director



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Note: Only one Repair Manual is available per customer. The above offers are subject to cancellation without notice at any time.

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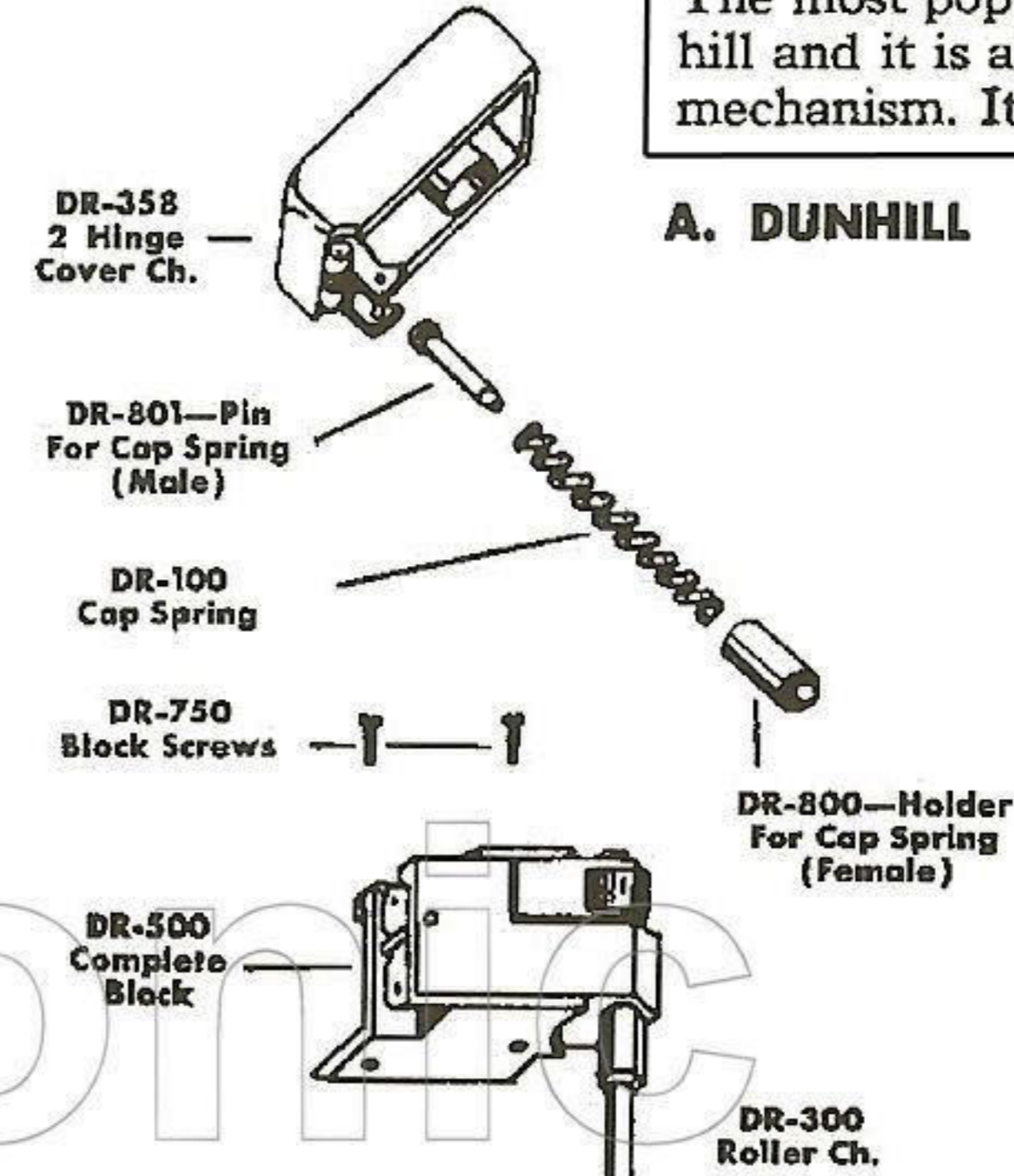
V. ROLLER TYPE LIGHTER

These lighters are basically the same principle as the thumb wheel type. Instead of the thumb turning the wheel itself it turns a roller which is attached to the wheel and which turns the wheel.

Also these all work on a horizontal plane rather than vertical. By this we mean the wheel is lying on its side in the lighter instead of standing up vertically.

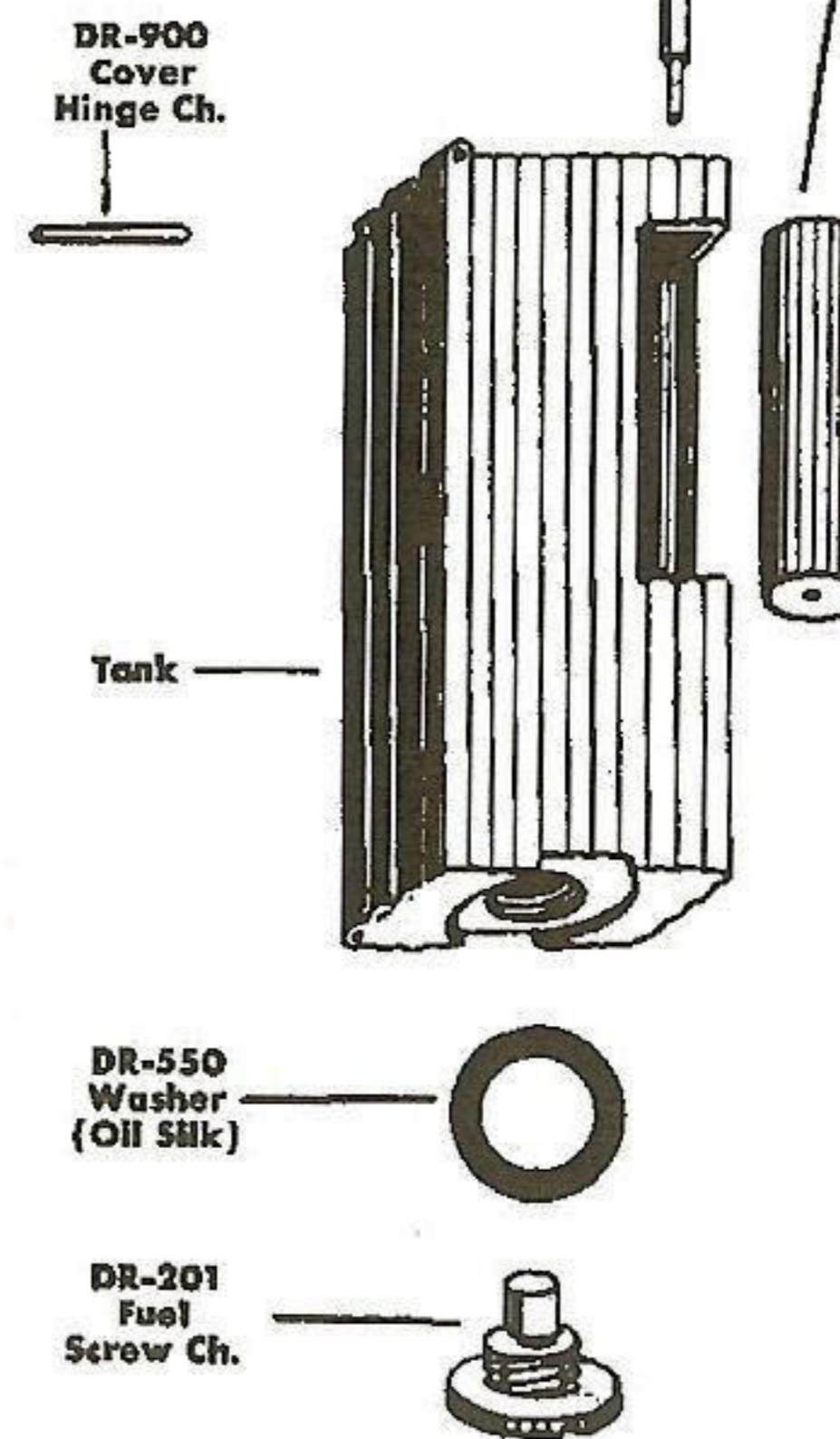
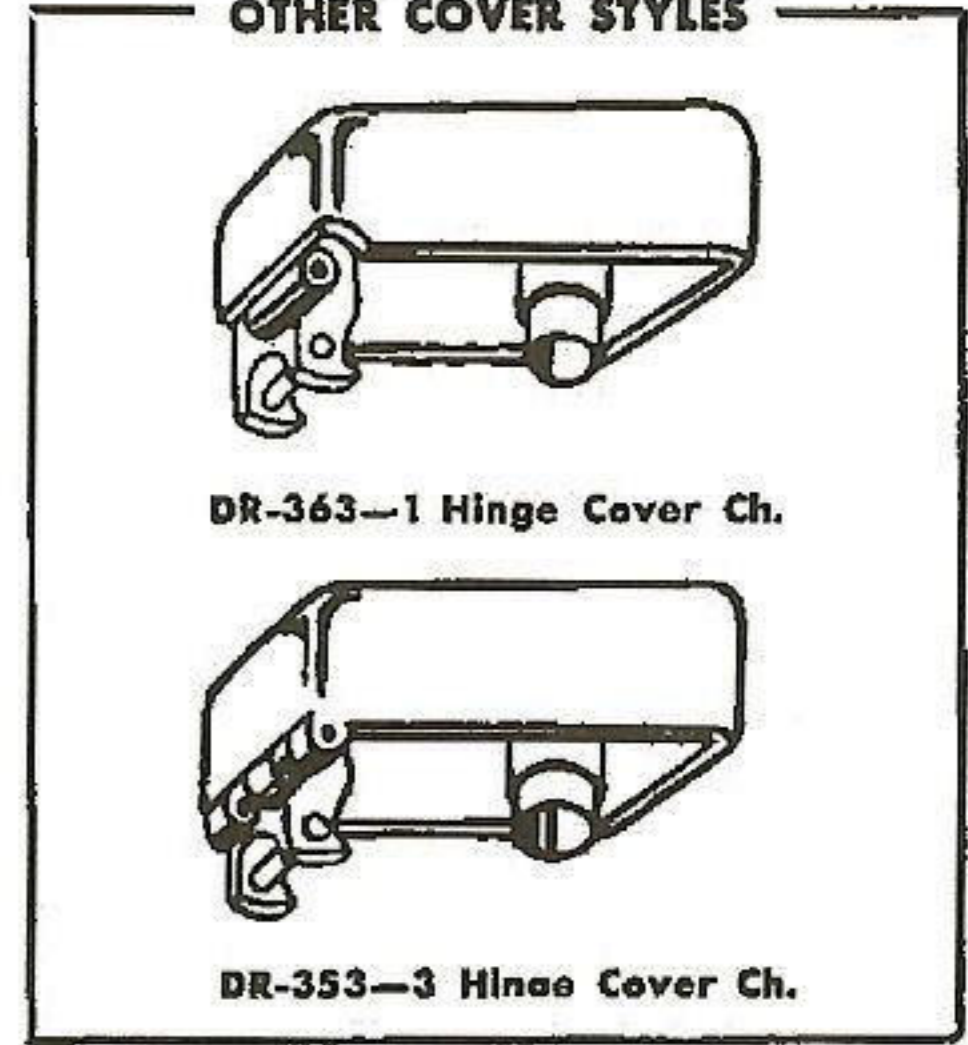
The most popular of this type lighter is the Dunhill and it is also probably the most complicated mechanism. It is illustrated below.

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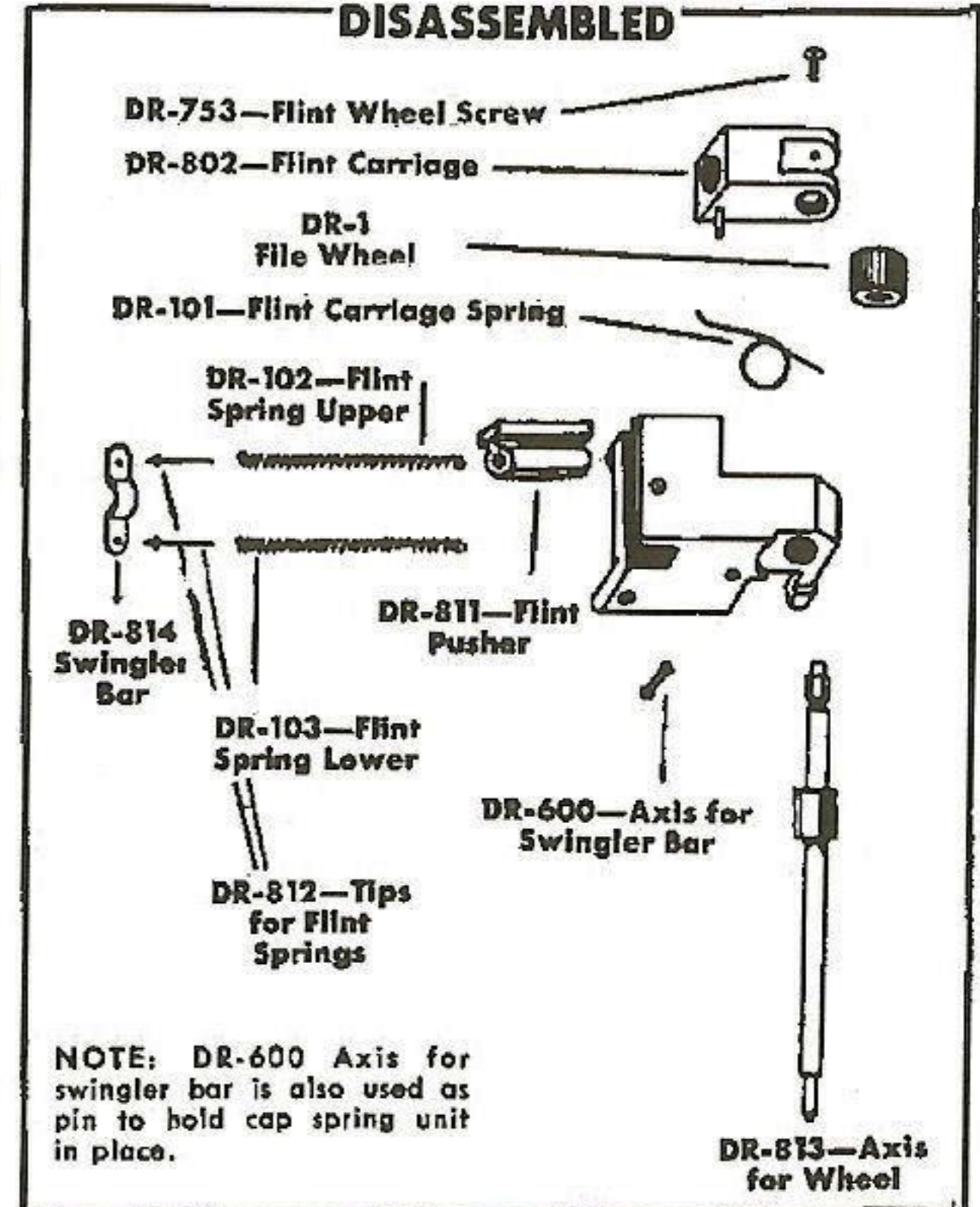


A. DUNHILL

OTHER COVER STYLES



DR-500 COMPLETE BLOCK DISASSEMBLED



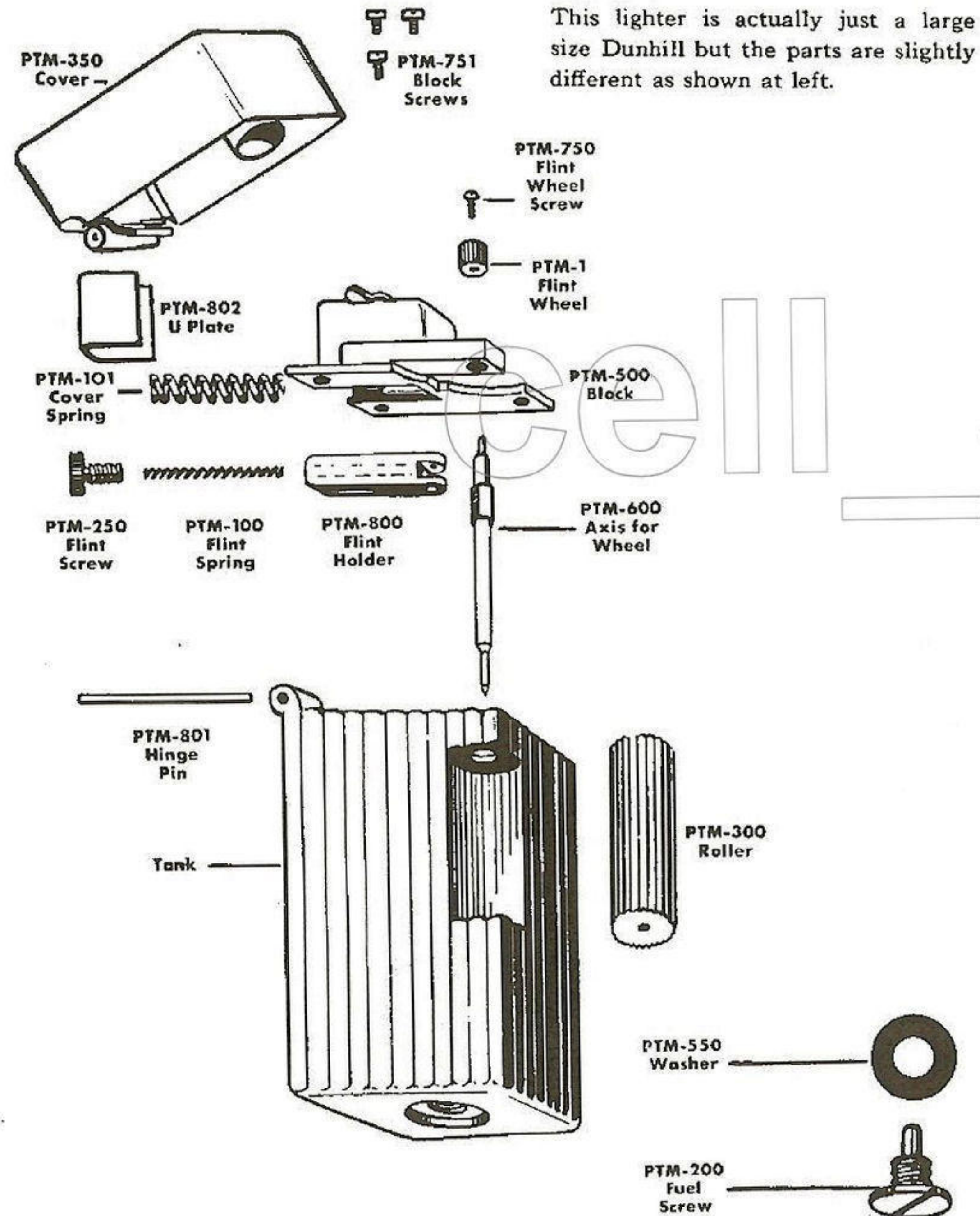
NOTE: DR-600 Axis for swinger bar is also used as pin to hold cap spring unit in place.

The Dunhill Rollalite is disassembled as shown in the exploded view on the preceding page. It's reassembled in the reverse order.

Another Dunhill model, the Domestic, is made here in United States and while the parts are shaped exactly like those on the Rollalite and while it is disassembled and reassembled in exactly the same manner, **SOME OF THE PARTS ARE SLIGHTLY DIFFERENT IN SIZE AND ARE NOT INTERCHANGEABLE.**

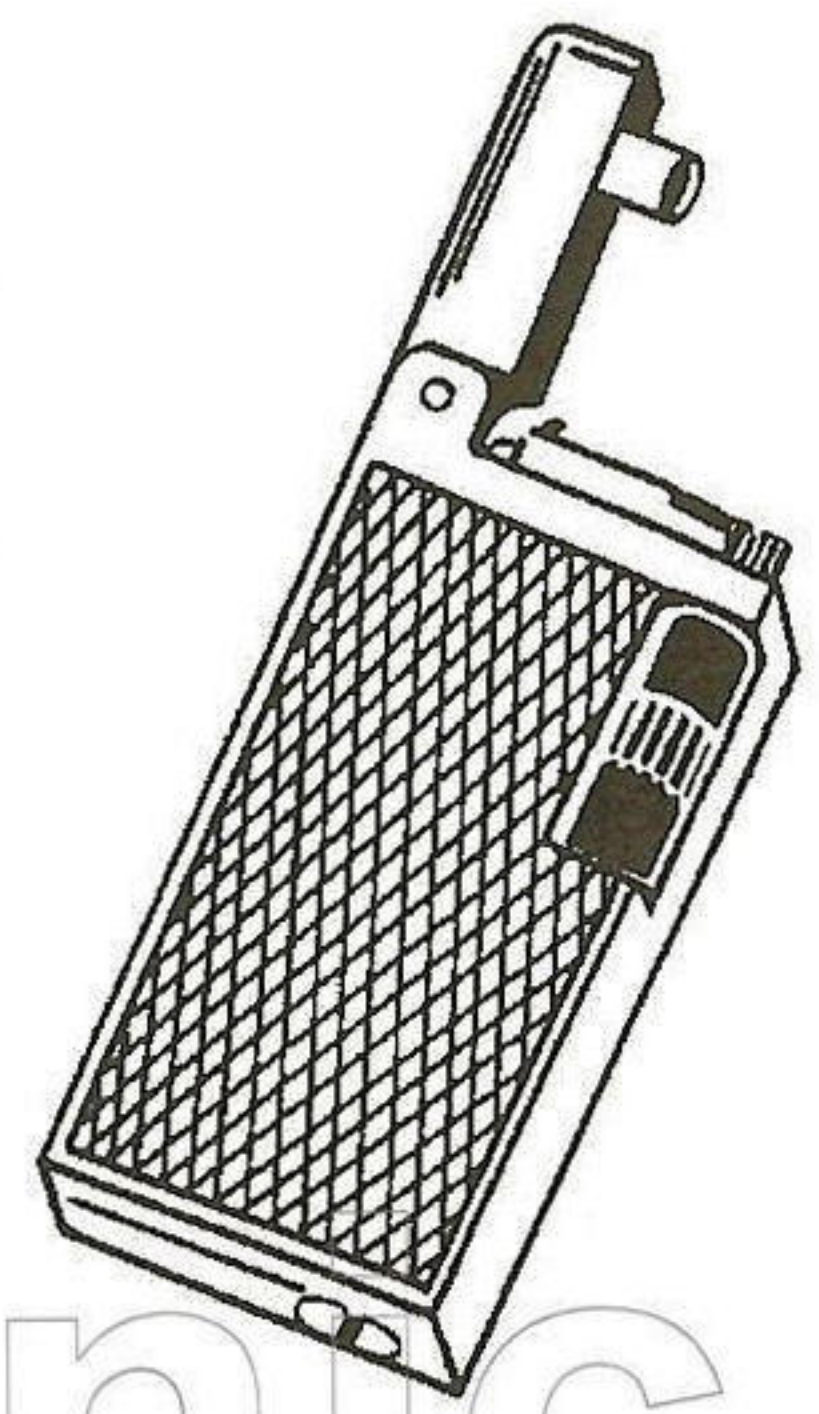
There is also a Shanghai Dunhill on the market which is made in the Orient and is an imitation of the Dunhill lighter. No parts are available for this lighter and we do not advise trying to repair it.

.....
B. PARKER TABLE MODEL



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.....
C. The Swiza



This lighter works just like a Dunhill but parts are slightly different.

.....
D. The Clark



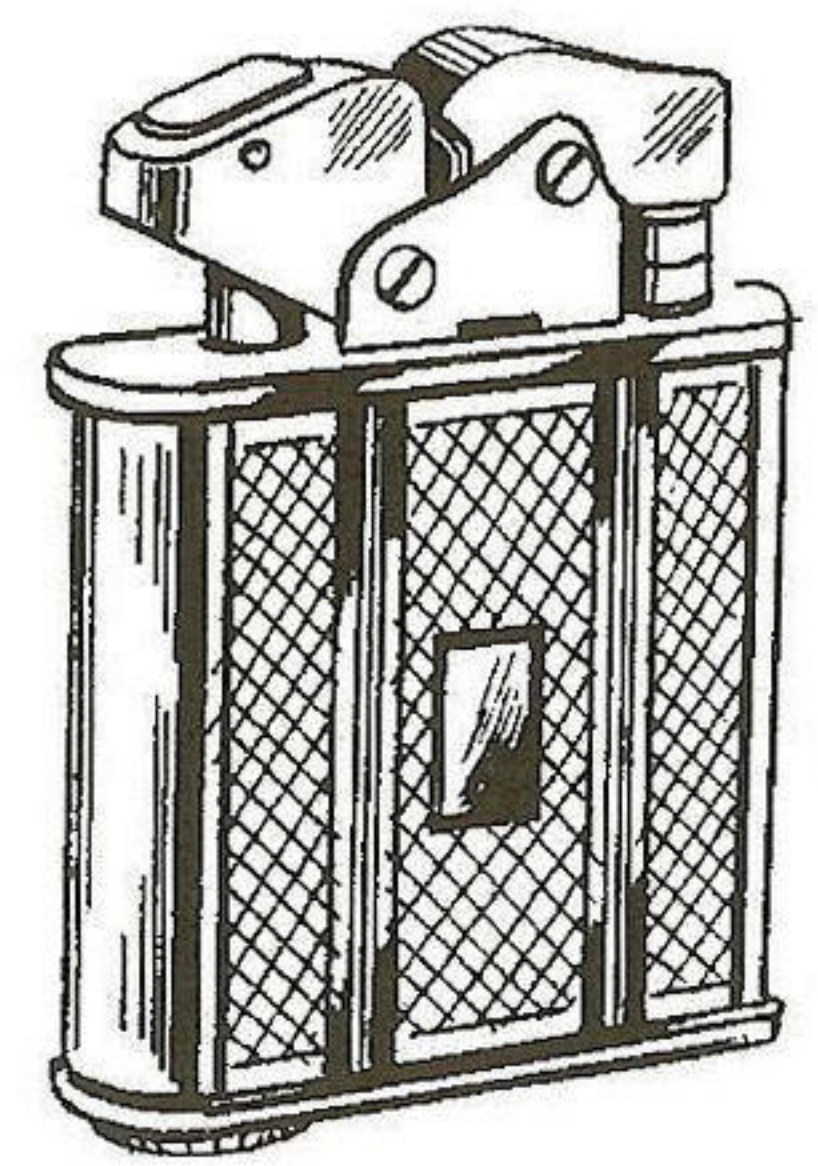
This lighter is typical of a number of thumb wheel roller type lighters all of which are constructed in the same manner and operate the same way. Parts, however, are not interchangeable.

Others that are like the Clark are: Golden Wheel, Dunhill Sport, Dunhill Unique, Mexican Sterling Silver and many others.

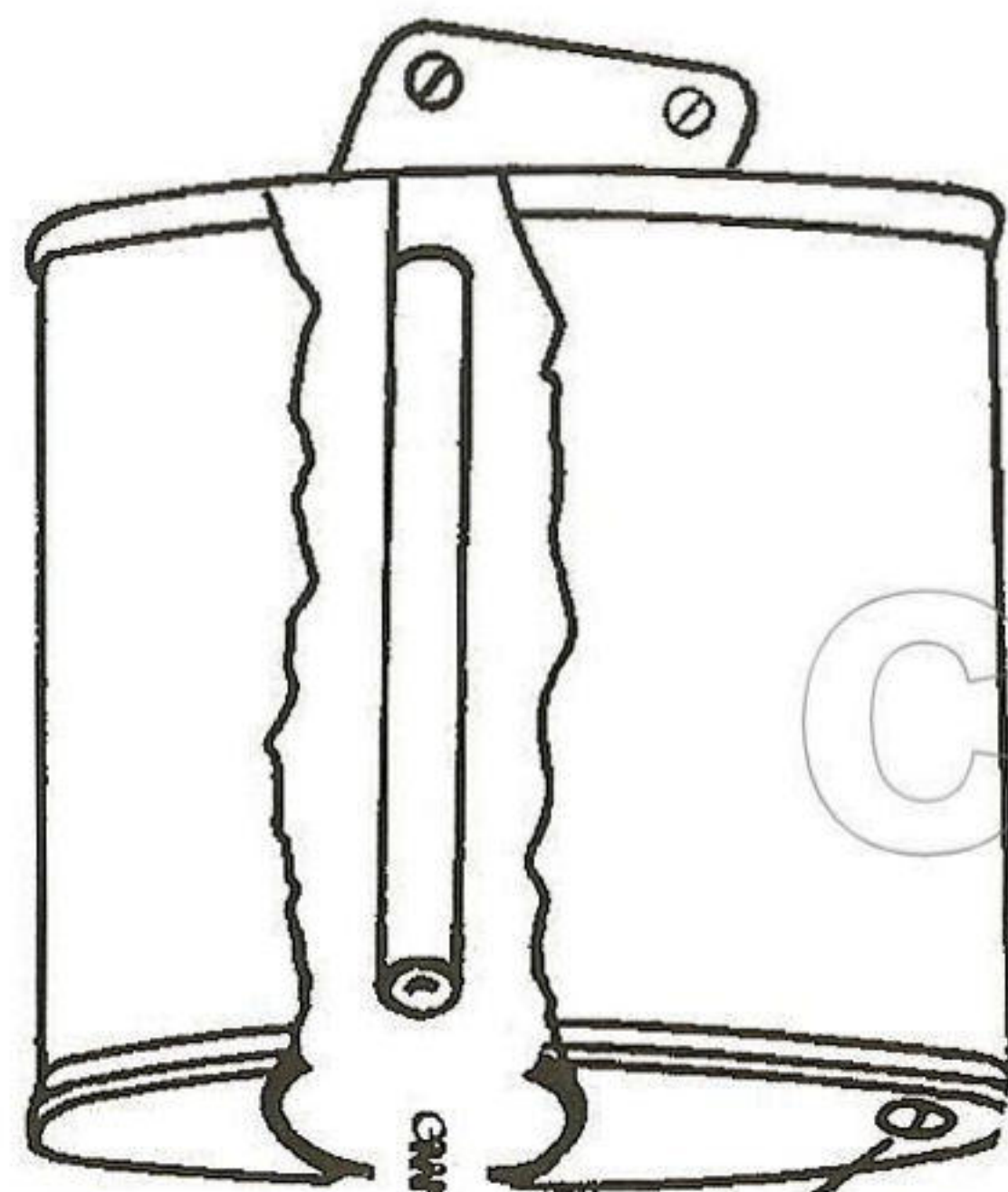
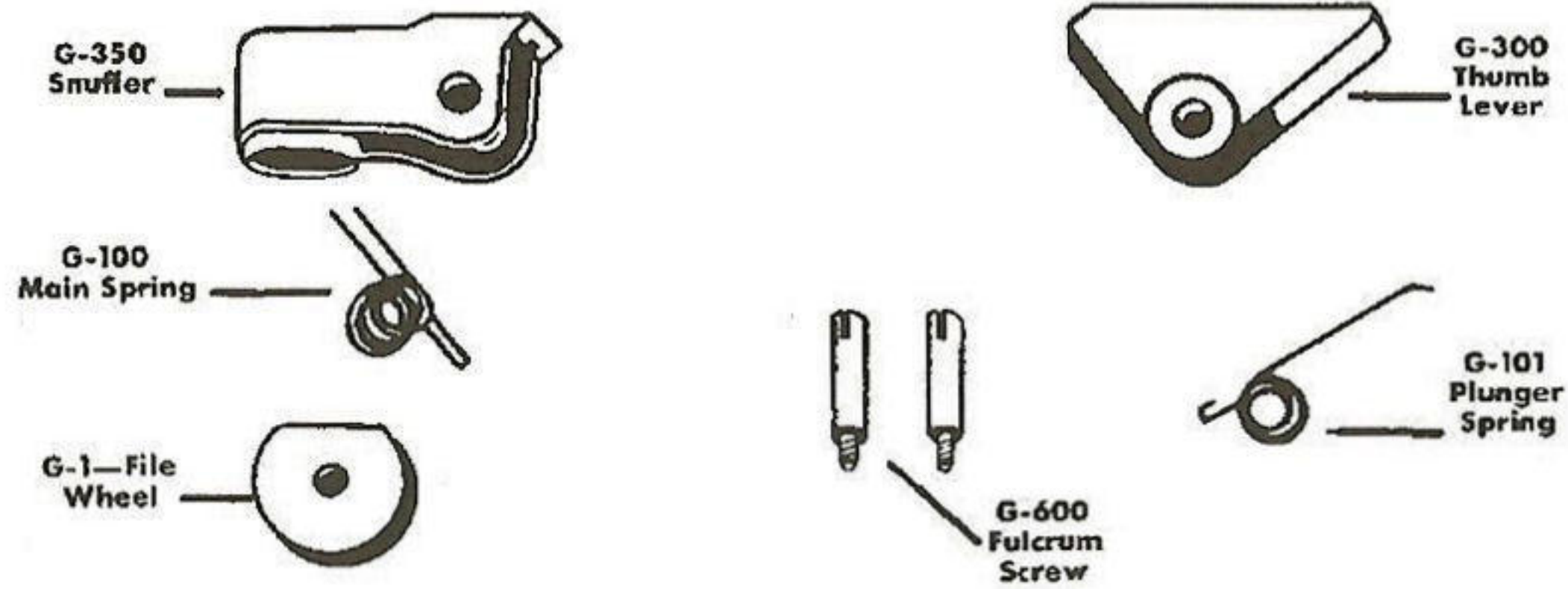
VI. SNAP OPEN TYPE WITH THUMB LEVER TRIGGER

.....
A. Thorens Oriflam

See Thorens section for illustrated diagram

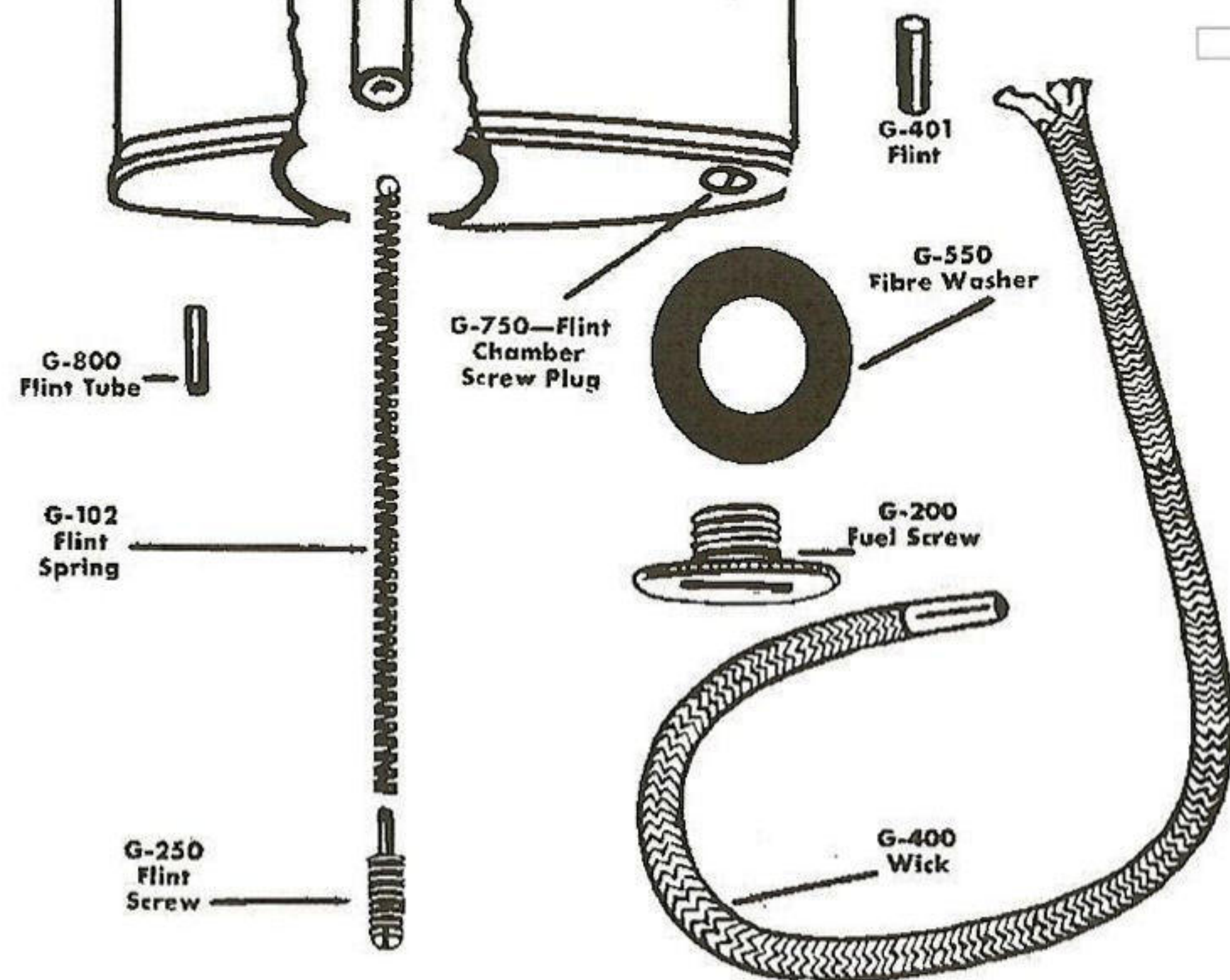


B. Giant (Galter)



* NOTE *

Both Wick and Flint are a special size. Use only Giant wicks and flints.



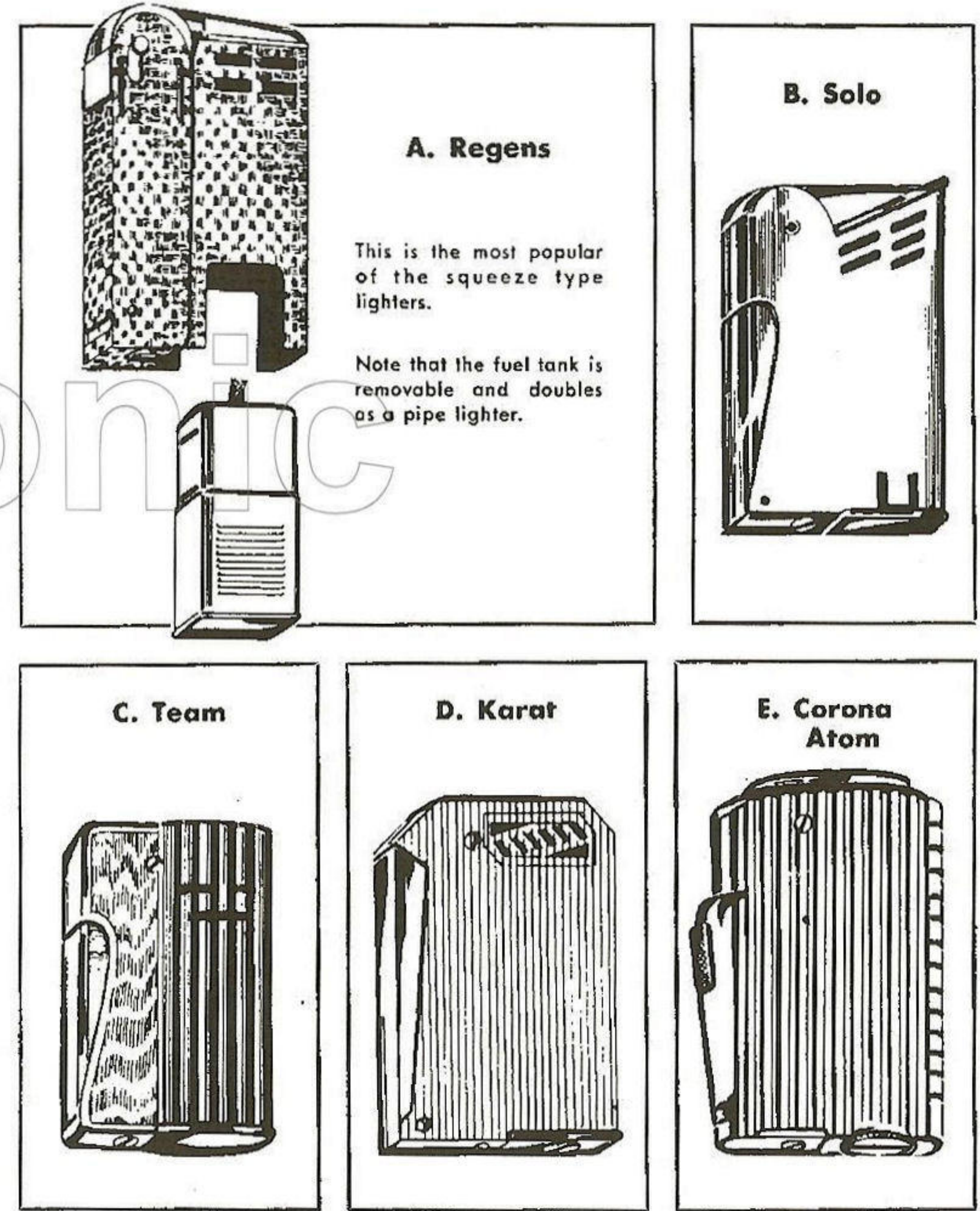
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VII. SQUEEZE TYPE

These lighters are all in the inexpensive bracket; selling for less than \$2.00. It usually does not pay to repair them as the replacement cost is so low.

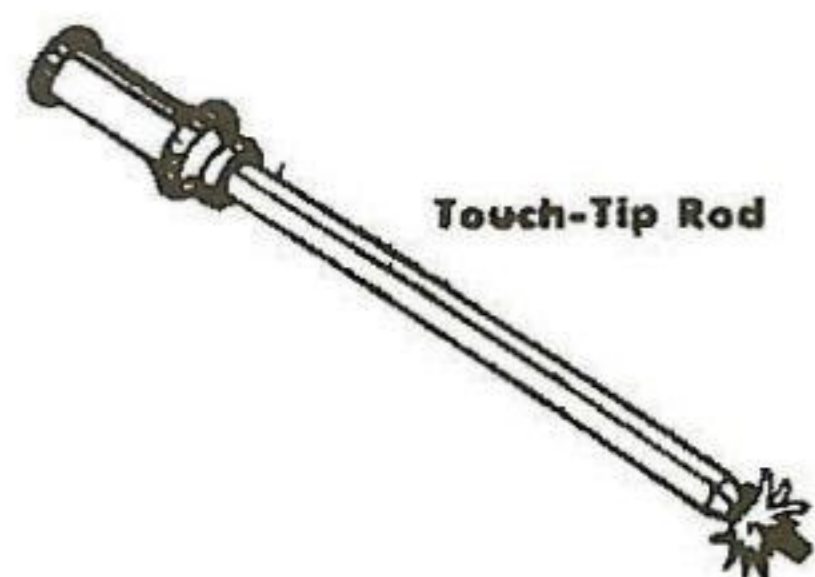
The lighters are all riveted together and are a little difficult to disassemble.

The pictures provided below will help you to recognize these lighters.



There are many other lighters of this style on the market but all operate the same and generally look alike.

VIII TOUCH TIP & STRIKE LITE MODELS



Touch-Tip Rod

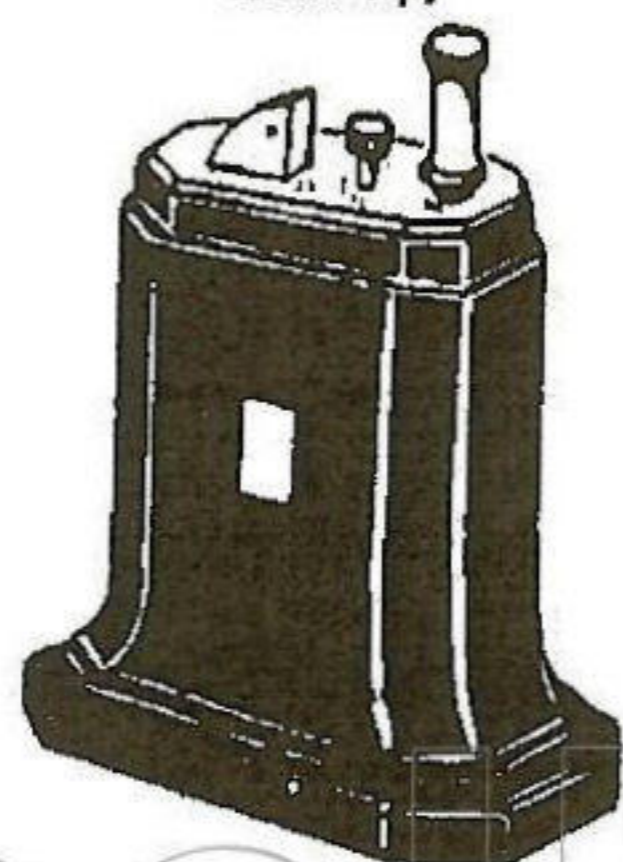
The touch tip lighter is so called because the top of the lighting rod is touched to the striker to ignite it.

This lighter was made only by Ronson and is no longer being marketed.

A. THE TOUCH TIP

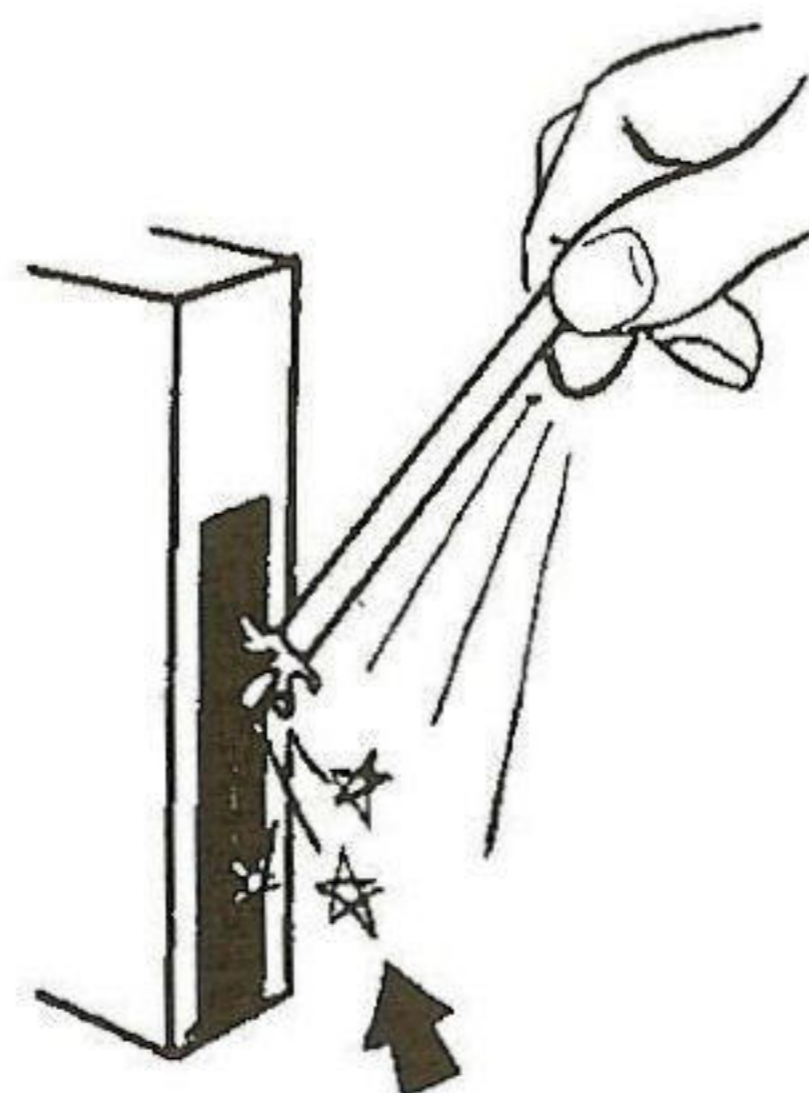
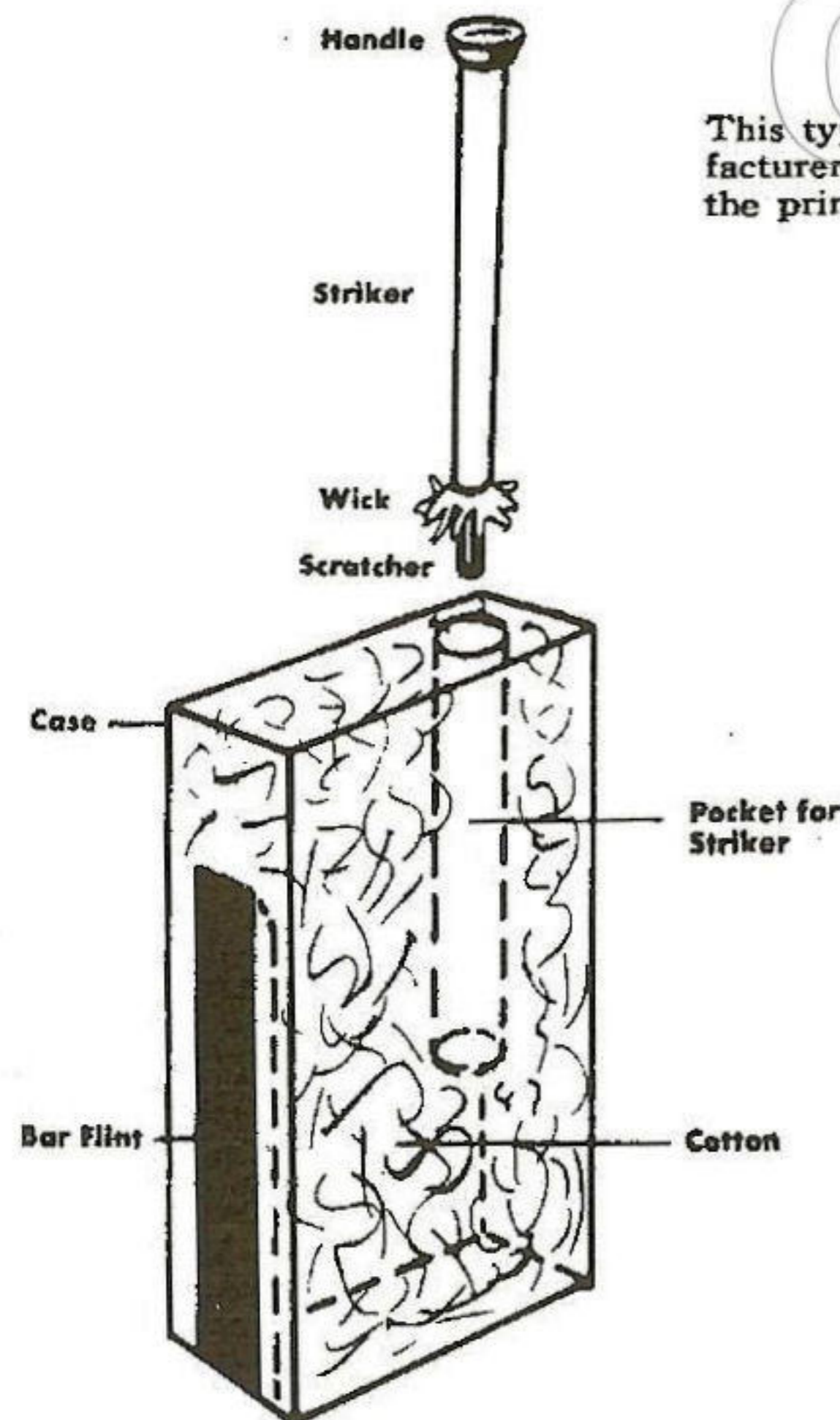


B. THE OCTETTE (Operates same as touch tip)



C. THE STRIKE-LITER

This type of lighter is made by several manufacturers in many different styles and sizes, but the principle in all is the same.



Striker is simply scratched along bar flint just as you would strike a match until the sparks ignite the wick.

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IX. BUTANE LIGHTERS

The newest trend in cigarette lighter manufacturing seems to be toward using compressed gas as a fuel, instead of conventional liquid fuel.

This innovation has given rise to many problems and, while the idea is being used by practically all the larger lighter companies, it is still in its infant stage.

In most cases the mechanism of these butane lighters works just like a conventional lighter but a separate sealed tank has been slipped into the case to provide the fuel.

There are actually two different types of butane cartridges.

1. The Exchange Cartridge

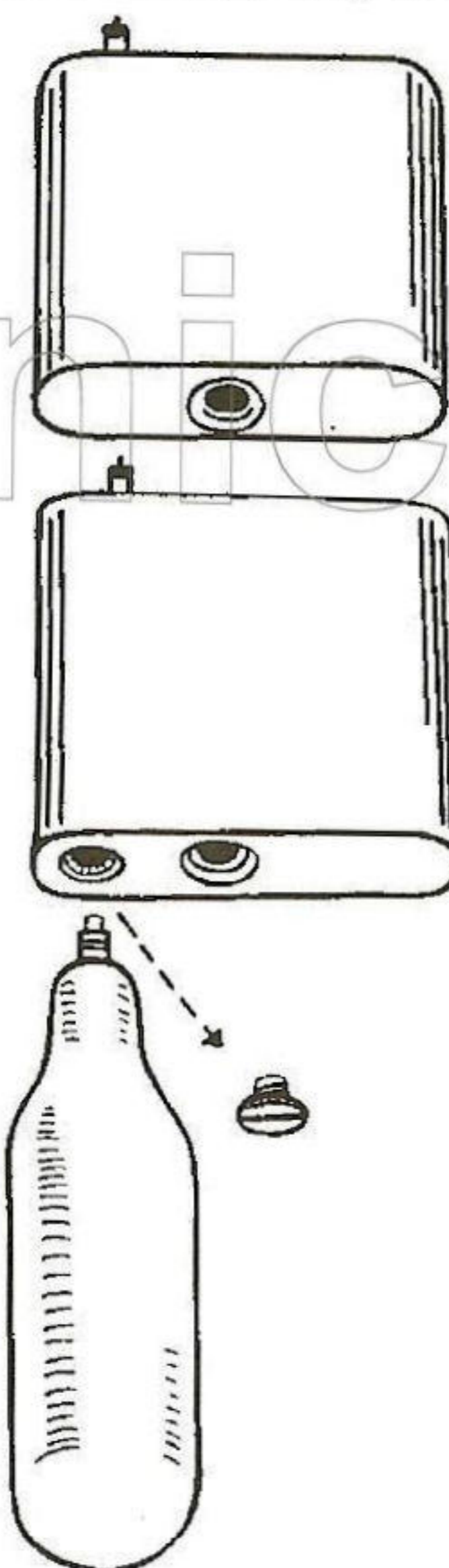
This type of cartridge is slipped into the lighter and used until the supply of gas is exhausted. Then you return the cartridge to your dealer in exchange for a filled cartridge. The usual retail charge for this is .75.

2. The Throwingaway Cartridge

This newer system is much more practical. It works like this:

If you buy a new lighter it comes equipped with a permanent reservoir tank. To refill this tank you can purchase small cartridges of gas which you transfer to your reservoir by screwing them in the bottom fuel hole provided for this purpose. Then you discard the empty cartridges.

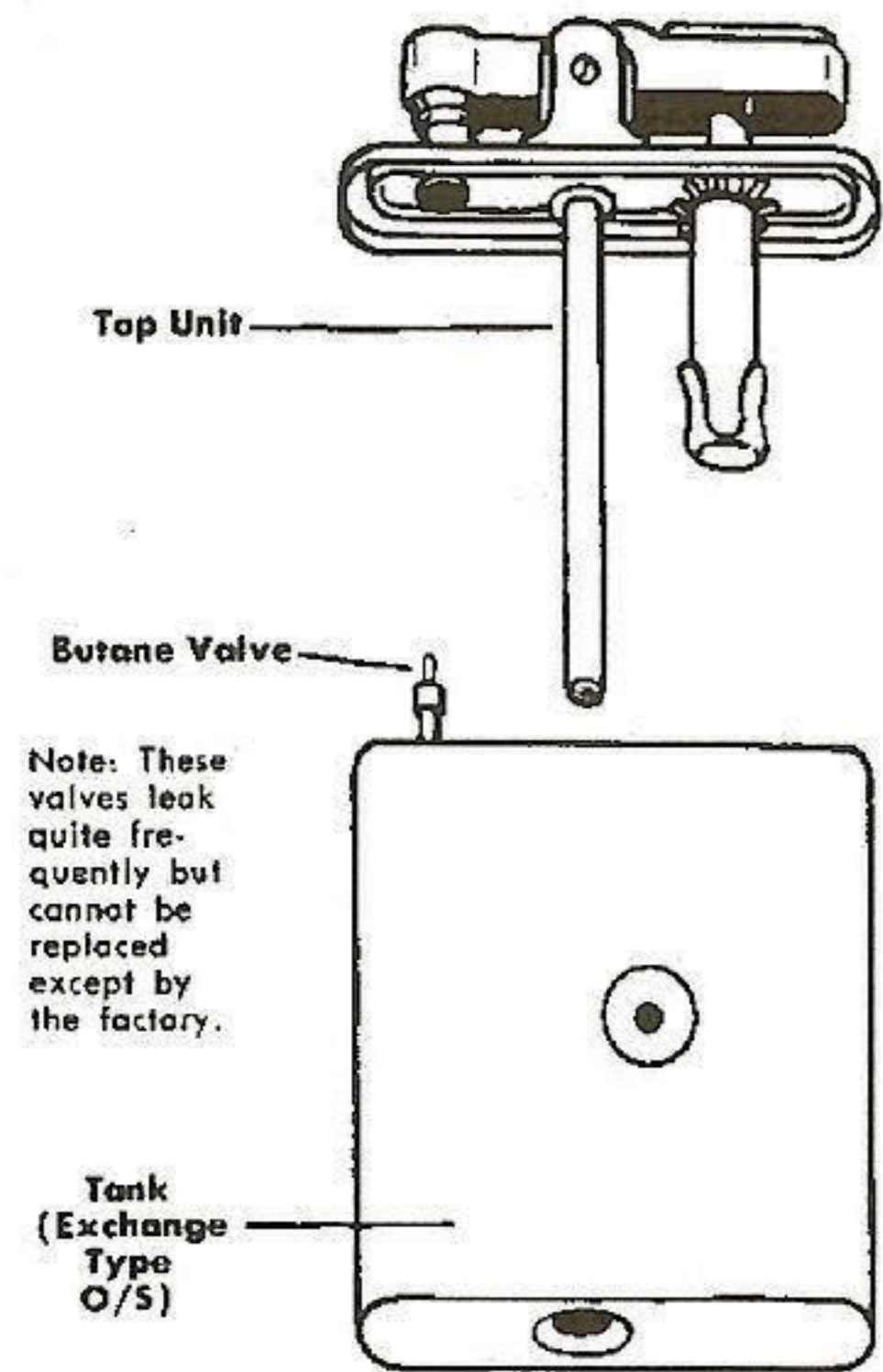
Actually there are only three major butane lighters on the market which we will describe in detail to help you to better understand how they work.



A. RONSON BUTANE LIGHTERS

1. The Vanguard

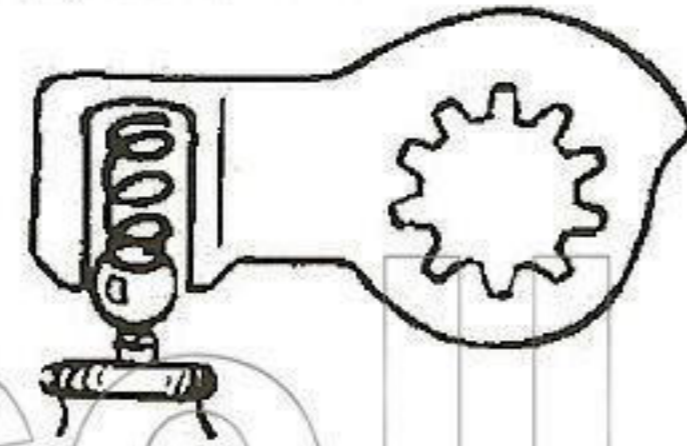
This model was the first butane lighter put on the market by Ronson.



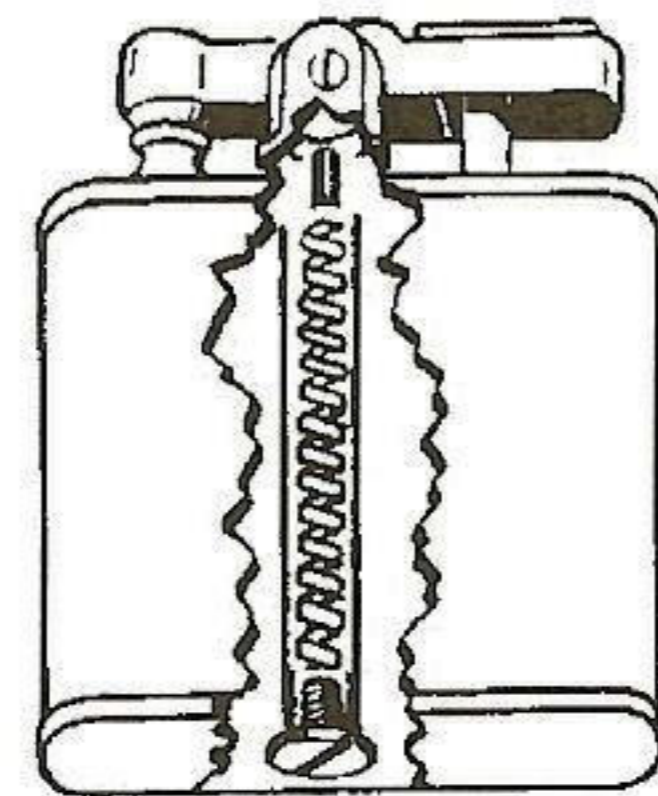
NOTE

All working parts are the same as those used on Ronson standard lighters except the snuffer.

It is a special modification of the RS-368 snuffer and gear unit with a ball bearing seated in the snuffer cup. This is to provide a seal for the Butane valve which protrudes from the chimney as illustrated below.

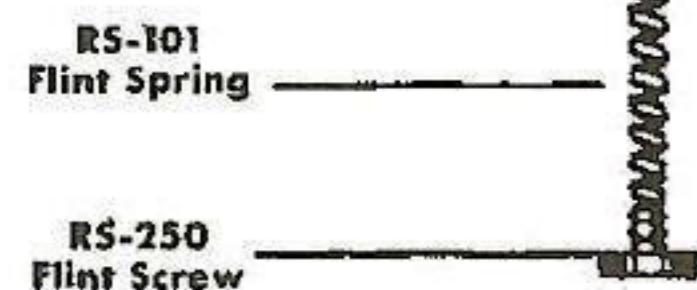


Entire Unit is held together by RS-250 flint screw.



The tank pictured at left is an old style exchange type unit.

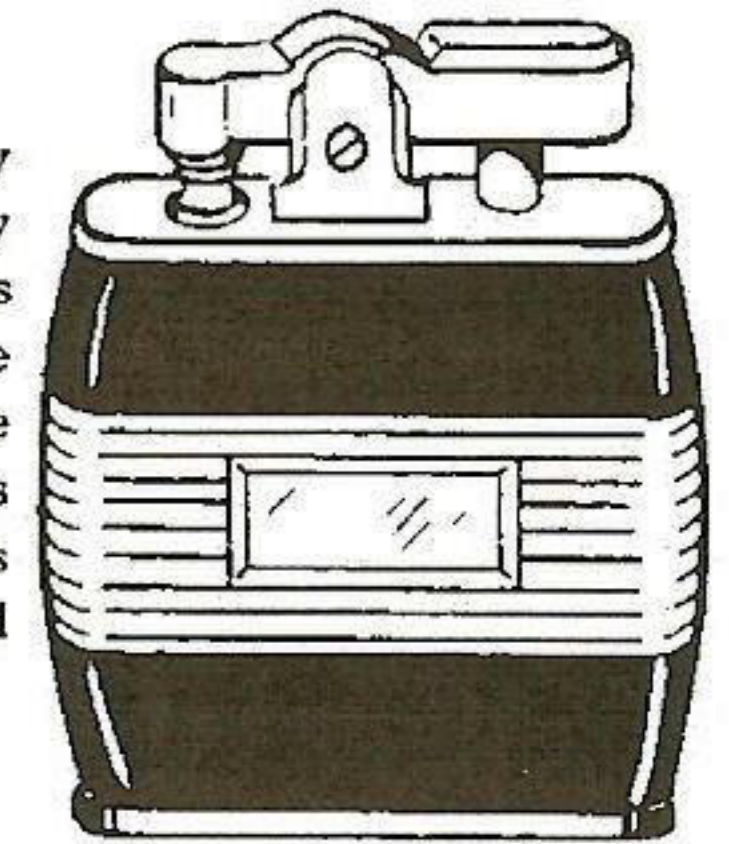
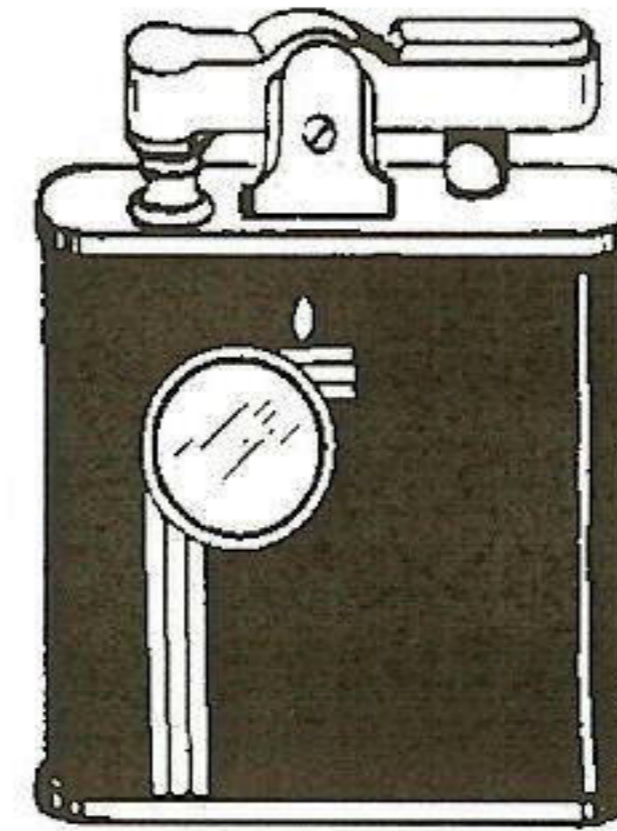
See preceding page for new type unit and cartridge used to refill it.



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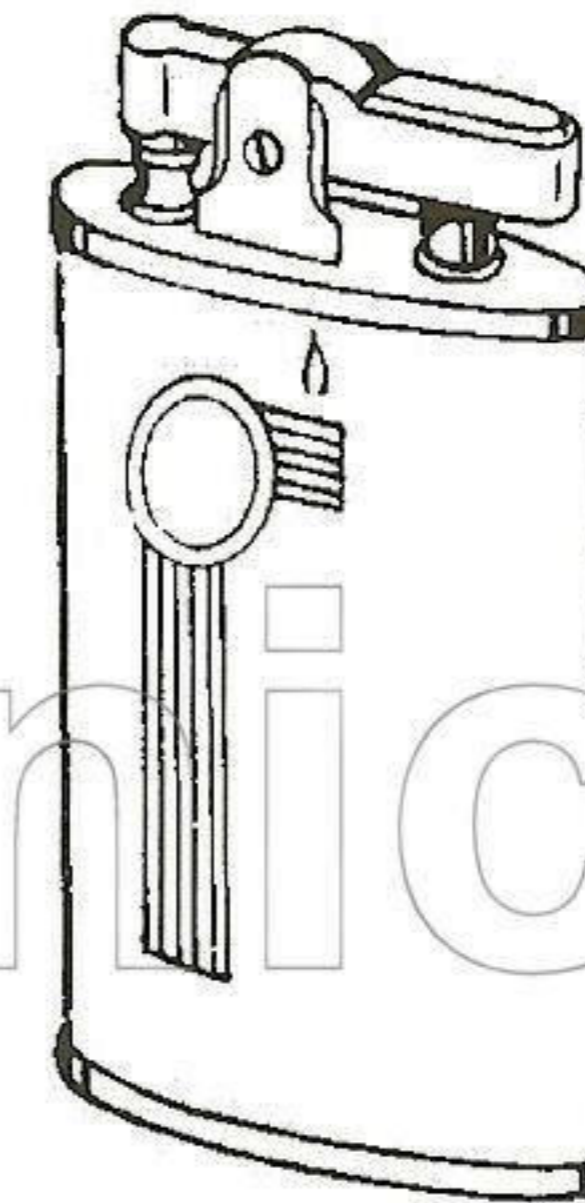
2. VIKING

The next lighter developed by Ronson using a butane fuel supply was the Viking (pictured). This lighter is exactly the same as the Vanguard except that it uses the New Style Throwaway Cartridges and the permanent reservoir. It is marketed in two models pictured here.



3. MAXIMUS

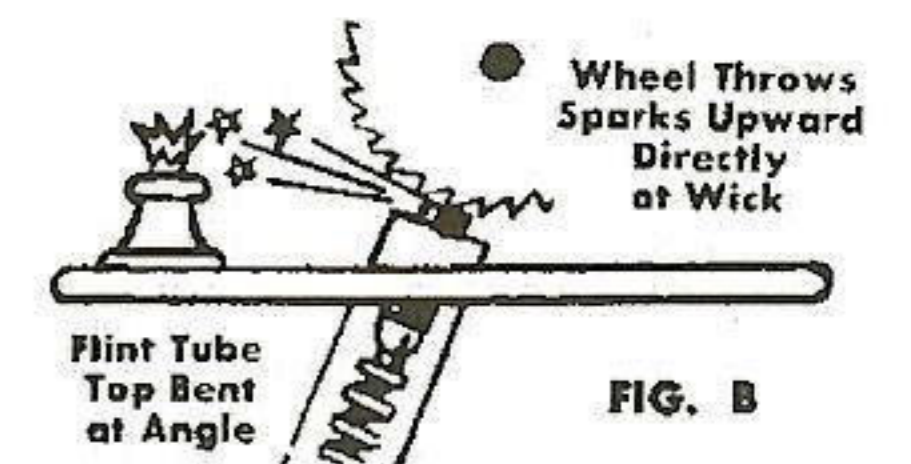
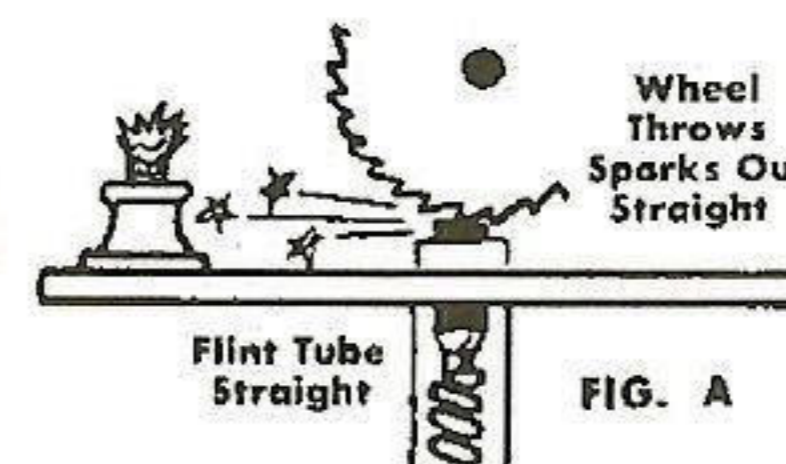
At the same time another butane lighter was also being marketed by Ronson. The Maximus. This model boasted two advantages over the smaller Viking. First, it would hold twice the amount of fuel; (the contents of two disposal cartridges), and second, the fuel tank is built right into the lighter. A fuel hole with screw type seal is provided in the bottom plate of the lighter.



4. THE NEW MAXIMUS

Finally, the newest model, the new Maximus has replaced all others. It is just a little larger than the Ronson Standard and has the fuel reservoir built in. It takes one disposal cartridge to refill.

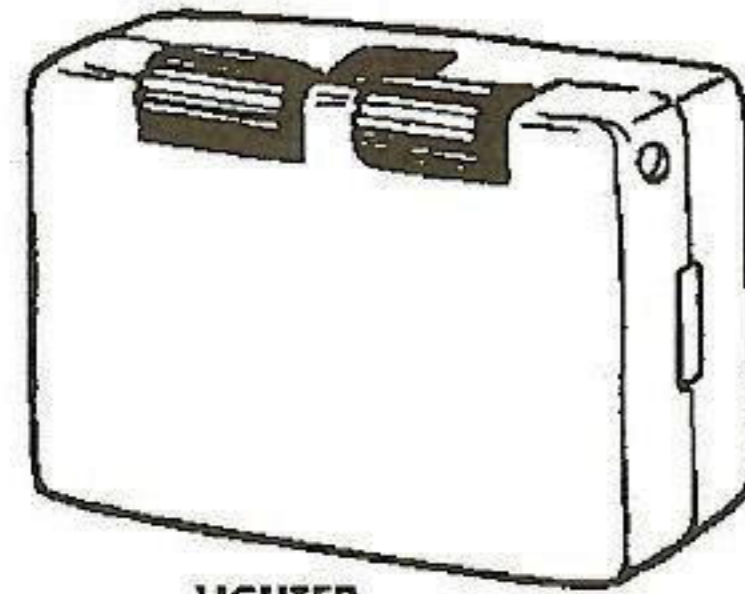
We note also that it has the old bent flint tube principle which provides much better sparks, as illustrated in Figure A and Figure B.



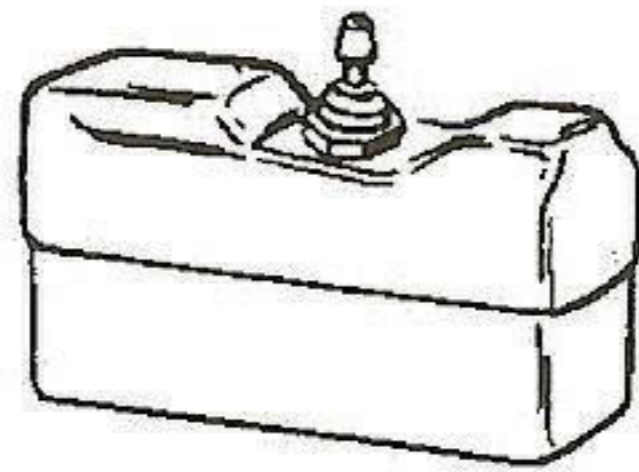
B. STRATOFLEAME

This lighter is marketed by the Stratford Pen Company and it is quite different from the general run of lighters. It has the roller type principle like the Dunhill, but horizontally instead of vertically.

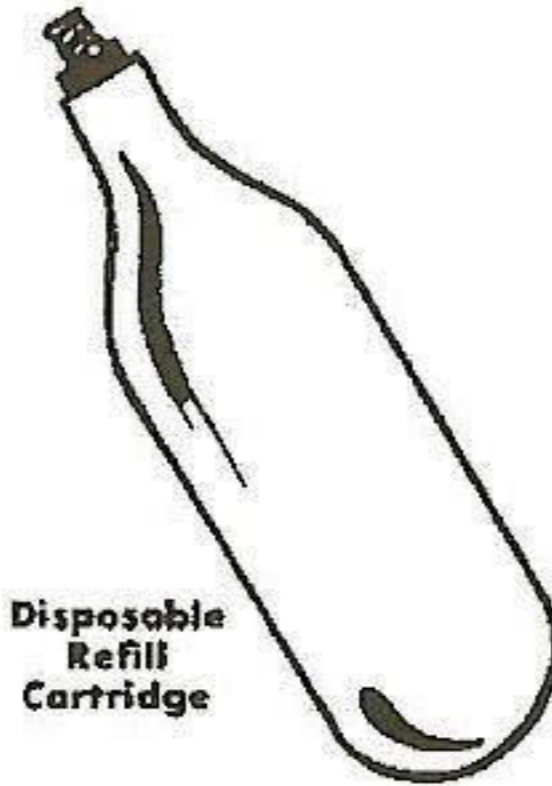
It also is a butane type lighter and has never been made in a conventional fluid type. When first marketed it had an exchange type cartridge, but has now been changed over to the permanent reservoir and throwaway cartridge.



LIGHTER



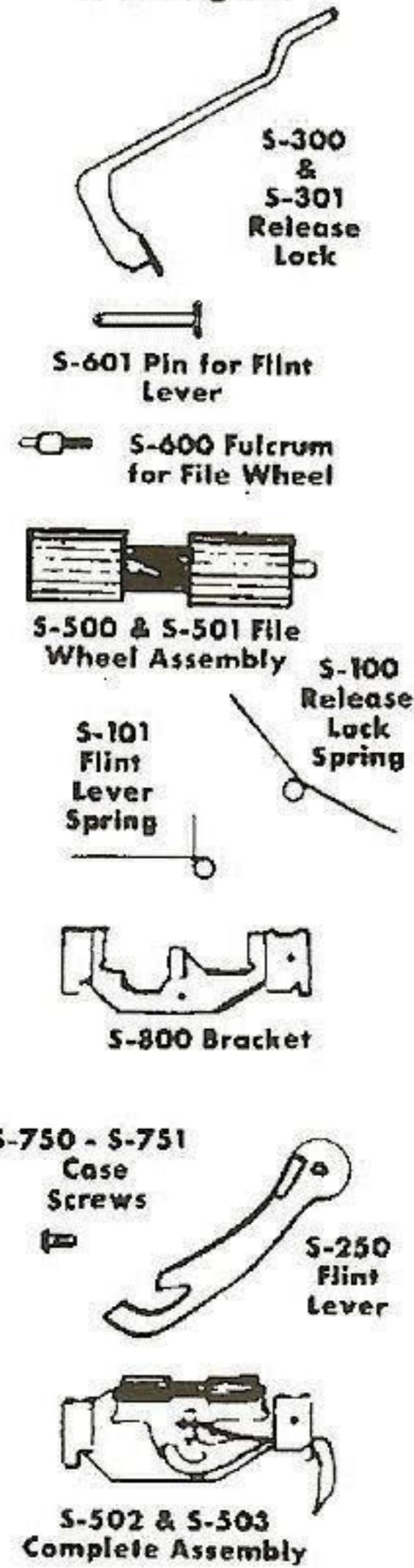
Permanent Reservoir



Disposable Refill Cartridge

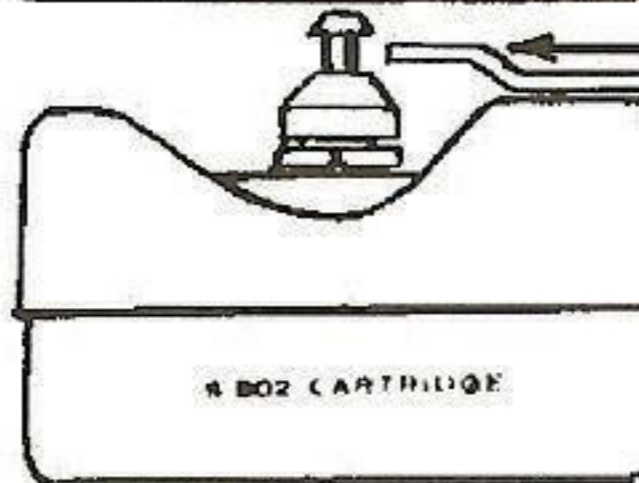
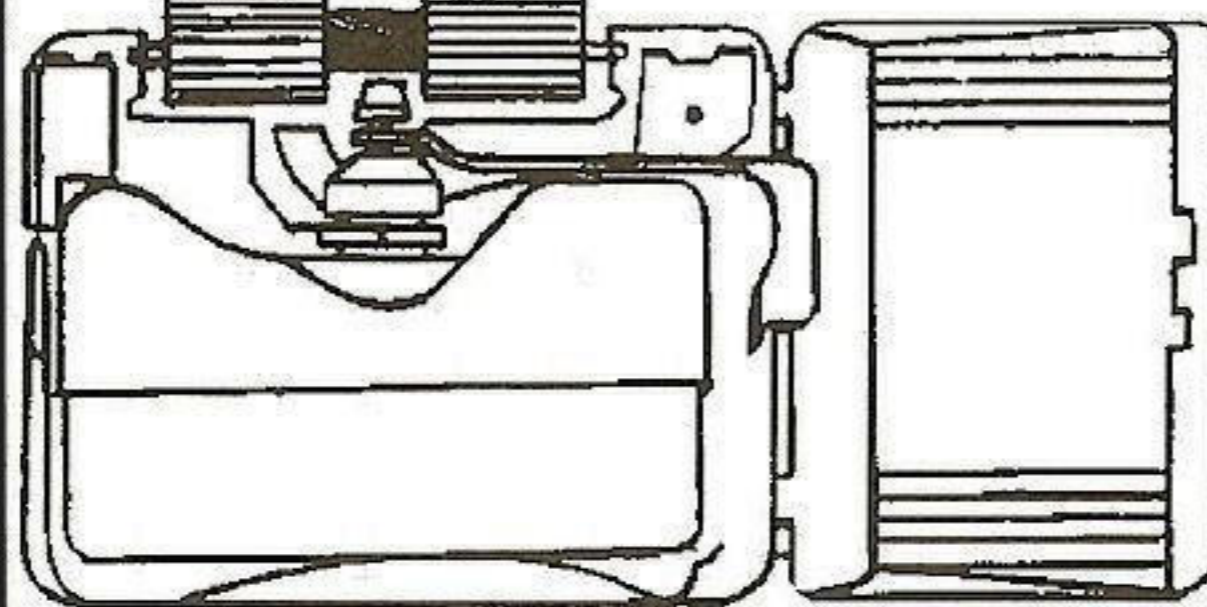
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Below is a list of the parts used in this lighter.



ASSEMBLY OF STRATOFLEAME

1. Place S-500 File Wheel Unit in S-800 Bracket as indicated by arrows. Then secure with S-600 Fulcrum.
2. Place parts S-250, S-101, S-300 and S-100 in Bracket as indicated by arrows and secure them with S-601 Pin.
3. Completely assembled Unit (S-502) is then placed in lighter case and fastened there by S-750 case screws.
4. Slip Cartridge into case.



NOTE: Be sure that fork end of S-300 release lock has proper bend. If it is too high it will cause the cartridge to leak.



Lighter Cover

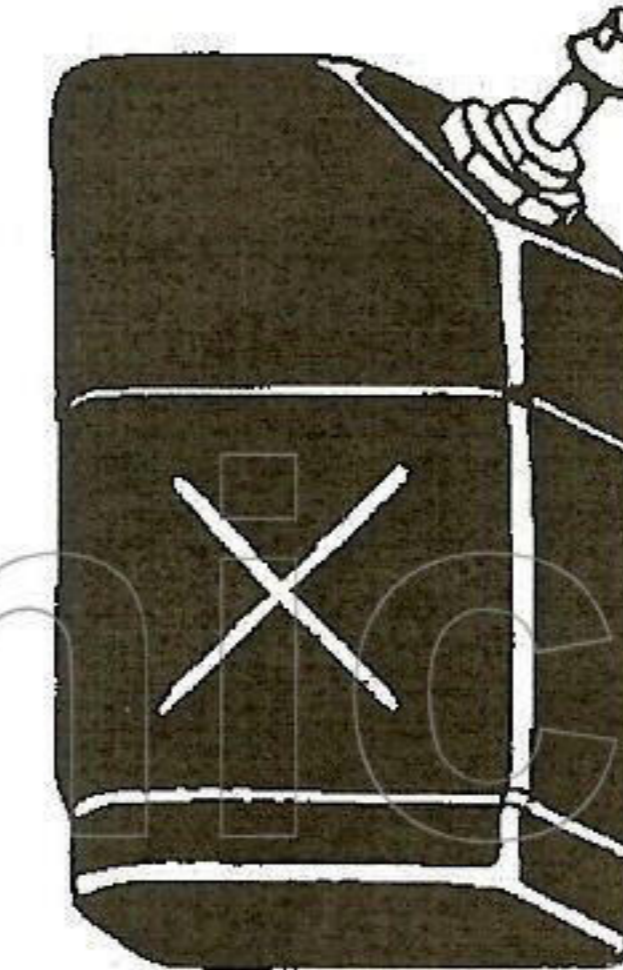


Lighter Striking Unit

C. THE PARKER FLAMINAIRE

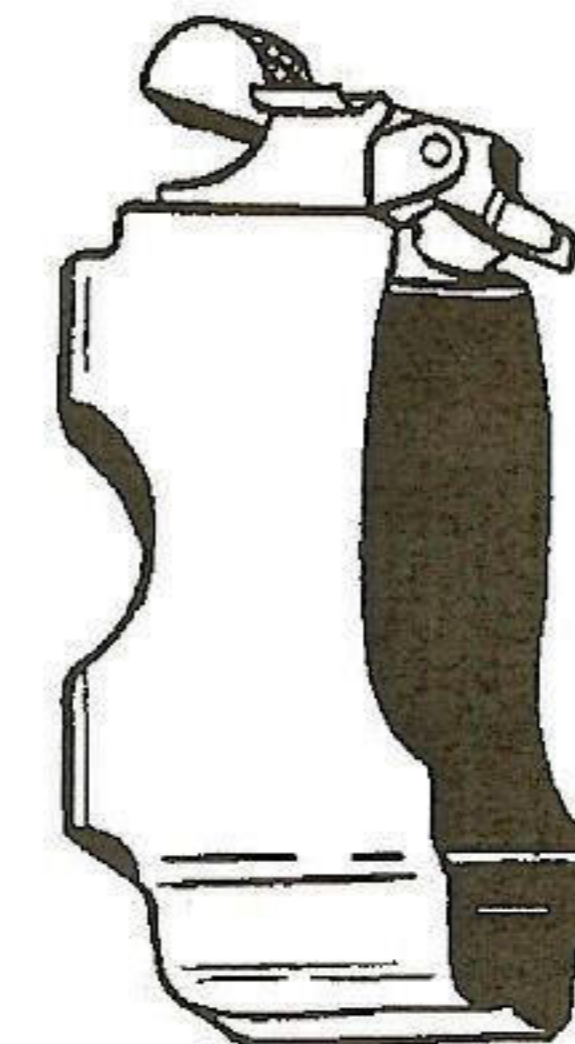
This lighter was developed in France and was one of the first butane lighters on the market. It was brought into this country and marketed by the Parker Pen Co.

It is rather simple in its design and very easy to disassemble. The cartridge used is the old style exchange type. It has not been changed over as yet.



Butane Tank

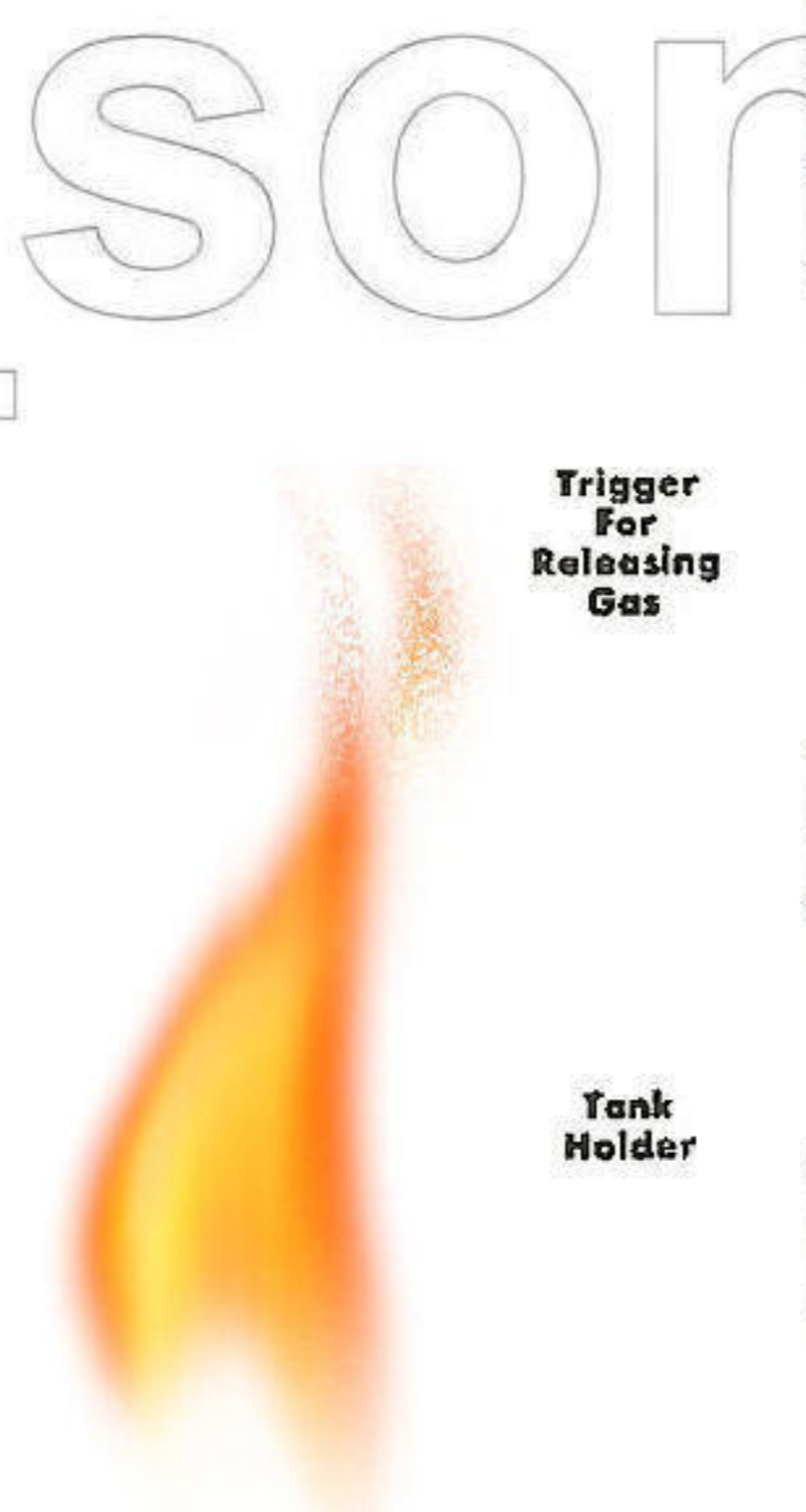
Trigger For Releasing Gas



Tank Holder



Bottom Plate



REPAIR KITS ARE AVAILABLE

from \$10.00 to \$1000.00 for all types of lighters, both foreign and domestic.

FREE INSTRUCTIONS

are given with every kit regardless of size.

Parts for restocking Kits are available from

Lighter Parts, Inc.

2 E. Stockton Avenue
Pittsburgh 12, Pa.

And Don't Forget!

There's a Tiny-Kit available for every model of every popular lighter. These pocket size repair kits cost you only \$2.50 net.

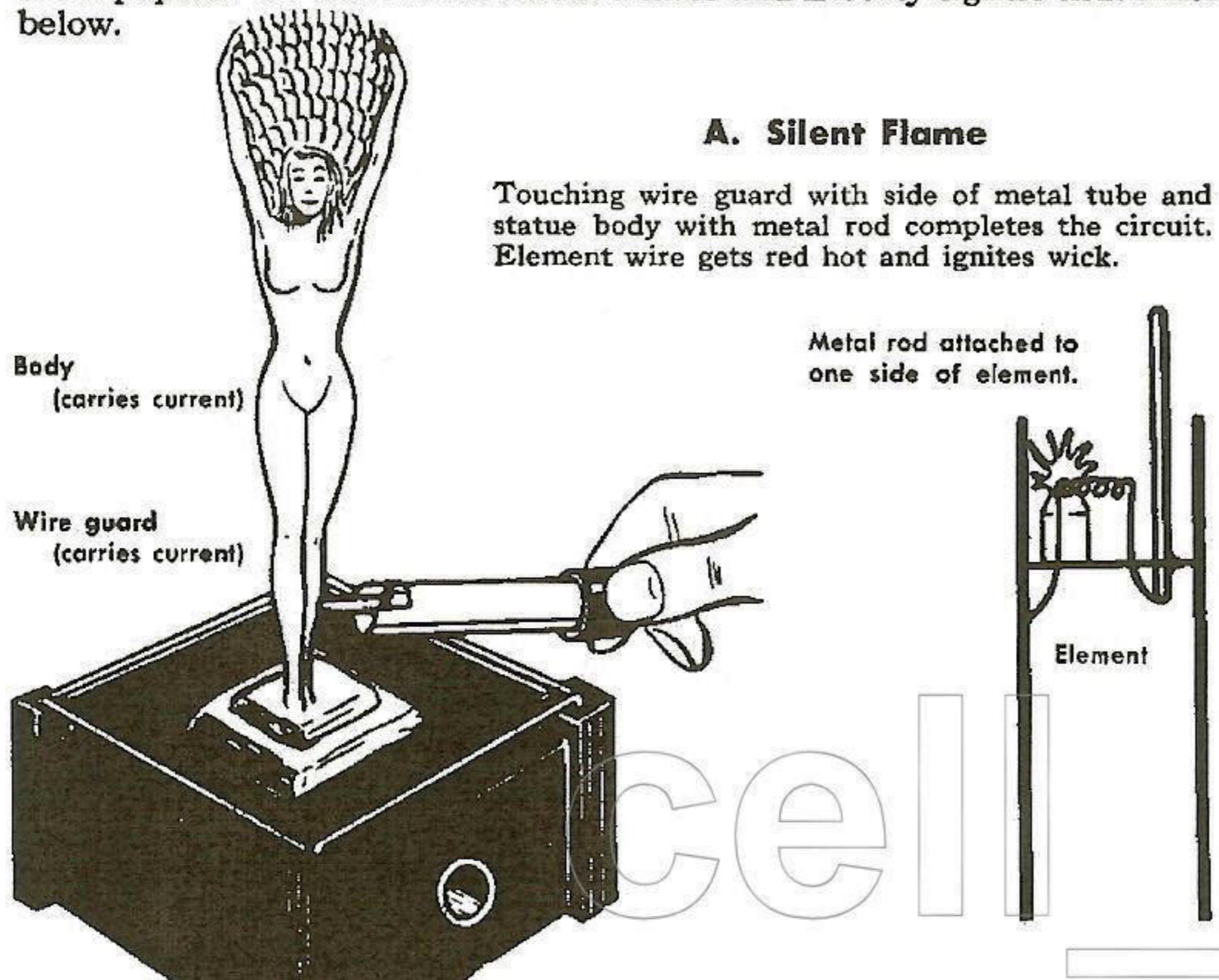
TRY ONE!

Write for information on Wholesale Distributorships

X. ELECTRICALLY FIRED LIGHTERS

This type of lighter is different in that it is ignited by an electrically heated element rather than by the conventional flint and file wheel method.

Most popular are the Parker Silent Flame and Liberty lighter illustrated below.



A. Silent Flame

Touching wire guard with side of metal tube and statue body with metal rod completes the circuit. Element wire gets red hot and ignites wick.

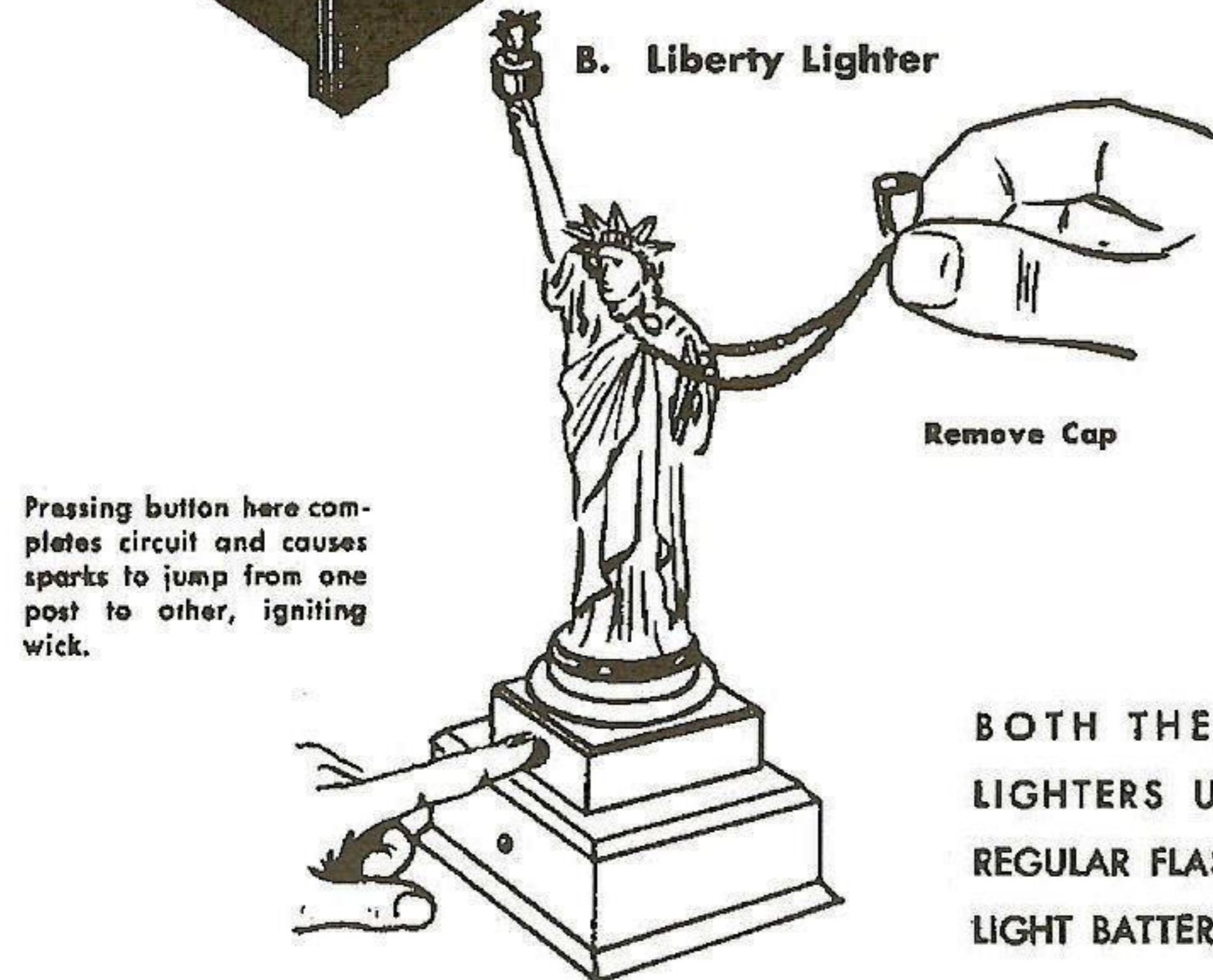
Body
(carries current)

Wire guard
(carries current)

Metal rod attached to
one side of element.

Element

B. Liberty Lighter



Remove Cap

Pressing button here completes circuit and causes sparks to jump from one post to other, igniting wick.

BOTH THESE LIGHTERS USE REGULAR FLASH-LIGHT BATTERIES

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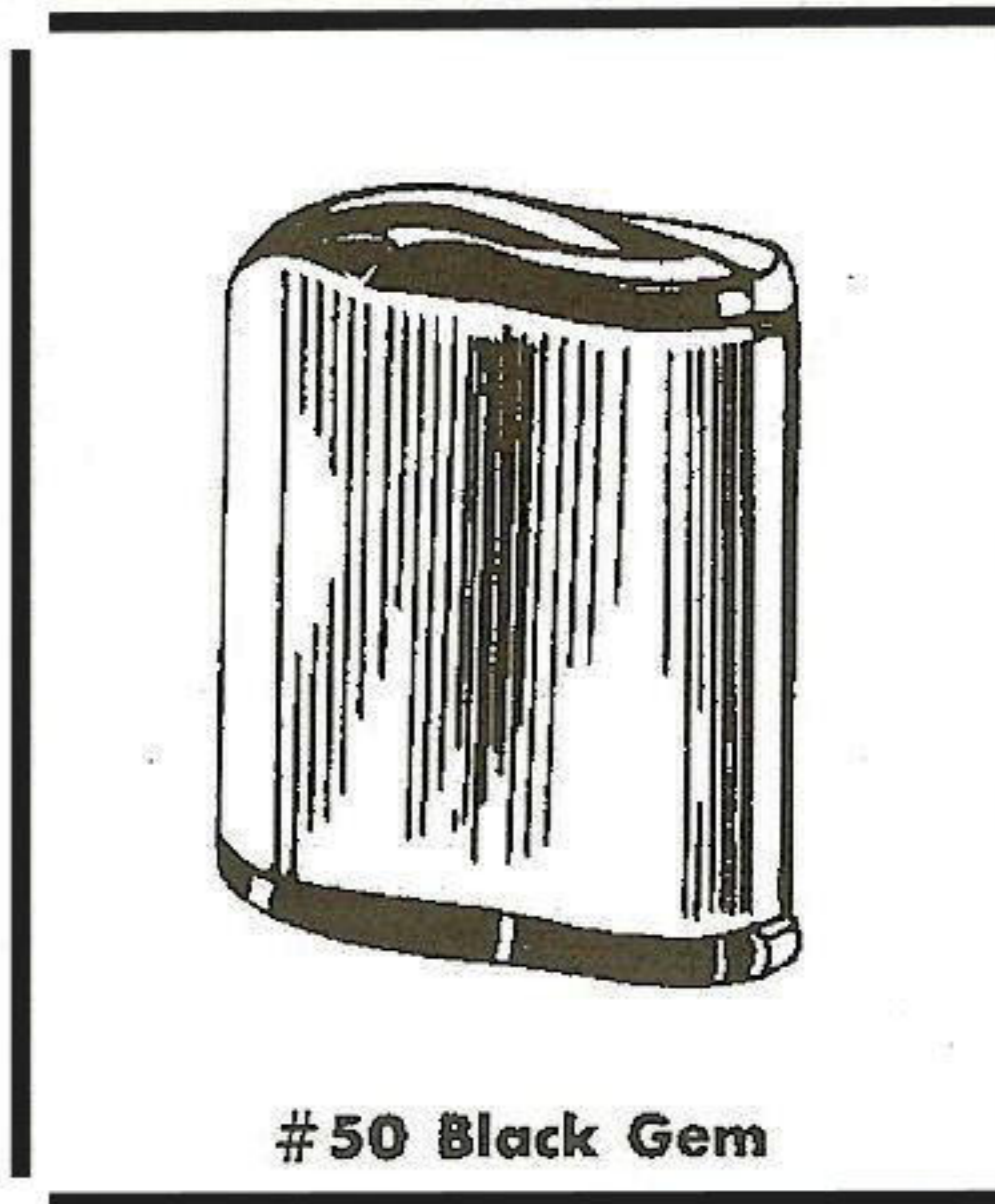
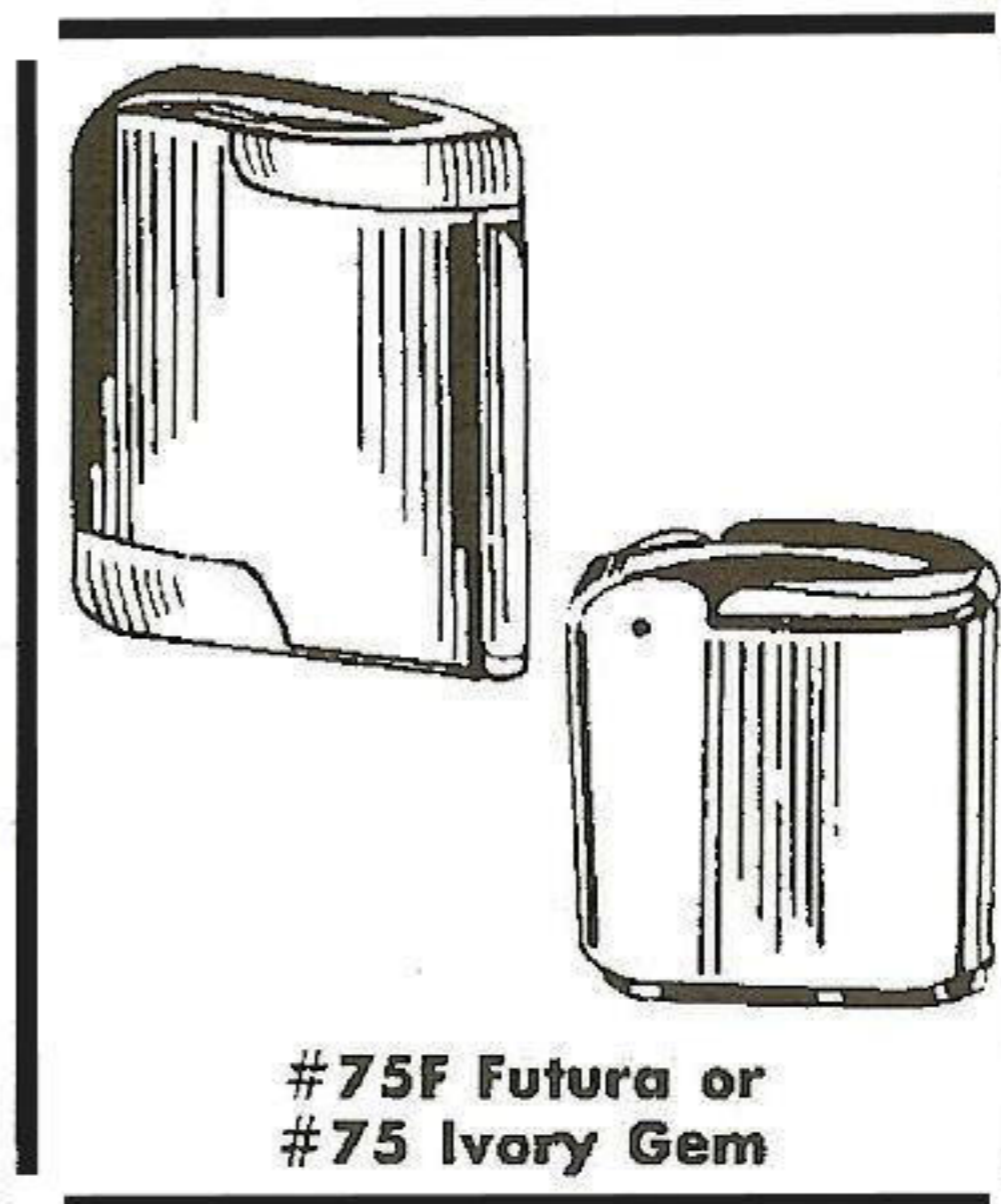
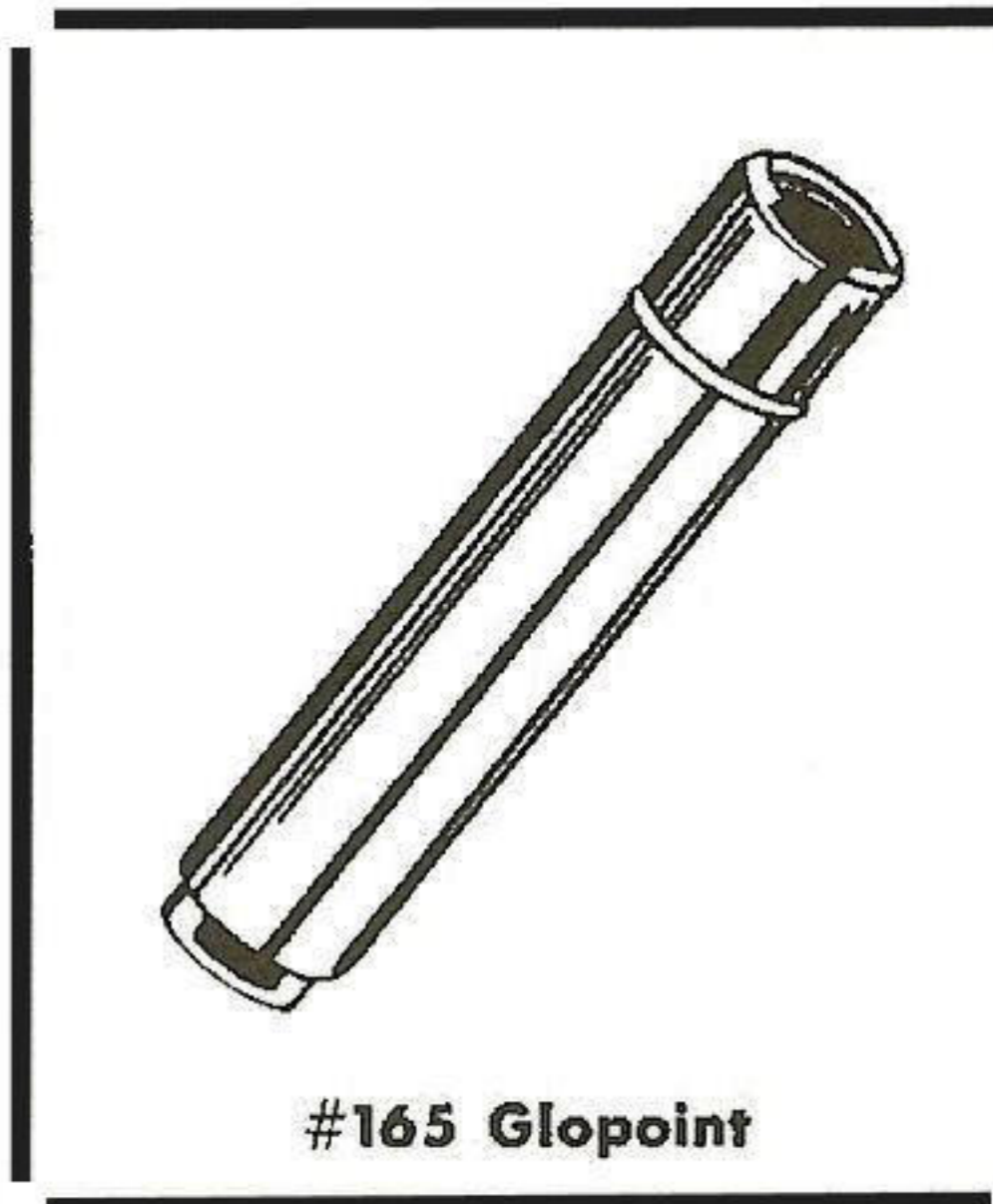
C. THE LEKTROLITE LIGHTER

This lighter is in a class all by itself in that it is the only lighter that has no flame, uses no flint, wick or wheel.





It operates on a chemical principle which causes the element to glow when air is sucked through it.

To operate it, the user flips up the lid, places the cigarette in his mouth—puts the end in the element of the Lektrolite, and draws air through the cigarette.

The four main Lektrolite models are illustrated as follows:



The only repair we recommend is replacing a defective element. For this purpose the following elements are used.

- | | | |
|-------|--|---|
| L-802 |  | # 25—For models # 10, # 25, # 25K, # 25M, # 35, # 55 Purple Orchid |
| L-803 |  | # 165—For models # 165, # 20K, # 205L, # 55 Lucky Lektrolite and all flowers except Purple Orchid |
| L-800 |  | # 50—For models # 50, # 75F SILVER |
| L-801 |  | # 75—For model # 75 GOLD |

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Before replacing an element, check the old one by placing it on a lighted electric bulb for about 10 minutes. Then try the element in the lighter again.

Before using a new element, use a lighted cigarette to burn out the grease coating on the inside of the element.

IMPORTANT!

Only one kind of fluid will work in Lektrolite lighters. It is illustrated below:



LEKTROLITE FLUID . . . 25c Retail

DO NOT TRY TO USE ANY OTHER FLUID

GET YOUR SHARE OF LIGHTER REPAIR

You can get your copy of the complete repair manual (One to A Customer)

- | | |
|---|--|
| 1. With the purchase of X-500 Kit of parts for Ronson which sells at \$50.00 net. | 2. With the purchase of ^{Or} \$50.00 net in repair parts. |
| ★ Repair Kits are available from \$10.00 to \$1000.00 | ★ Free instructions are given with every Kit |
| Write for information on distributorship. | Parts for restocking kits are available at all times from |
| LIGHTER PARTS, INC., 2 E. Stockton Ave., Pittsburgh 12, Pa. | |

INFORMATION ON FLINTS AND WICKS

FLINTS

Always be sure to use the best grade of flints, as inferior flints can only cause damage to the lighter.

Flint that is too soft will powder and clog the cutting edges of the file wheel; too hard will not spark properly.

Be sure to use the correct diameter and length of flint, as some of the lighters use a special flint.

Below are listed the most popular flints and the lighters in which they should be used. Flints are shown exact size.



S-457 Silver Flint

This is a standard diameter and length and can be used in most popular lighters. Average diameter .095. Average length .210.



R-450 Red Flint

This is a standard flint, exactly the same as S-457 silver flint, except that it is coated with a red color. Average diameter .095. Average length .210.



T-451 Flint for Thorens Lighters

This flint is the same size as standard (S-457), but is much harder, to prevent excessive wearing by the extremely sharp Thorens file wheel.



G-452 Flint for Giant Lighters

Same diameter as standard, but averages about .400 long. It is made longer because the file wheel is a little further from the top of the flint tube. Extra length prevents it from turning over and jamming lighter. (Do not use in any other lighters.)



B-453 Flint for Beattie Lighters

Same as Giant (G-452).



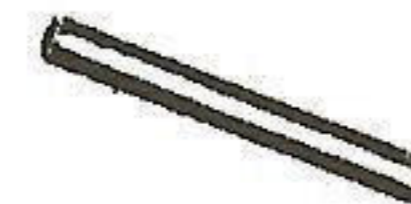
N-454 Flint for Negbaur Lighters

Slightly larger in diameter and length than standard (S-457). Average diameter .105. Average length .282.



D-457 Flint for Dunhill Lighters

Much larger in diameter than any other flint. Average diameter .125. Average length .184. (Do not use in any other lighter.)



A-458 Year Long Flint for N/S A.S.R. Lighters

Used only with special flint screw provided in A.S.R. N/S lighter. Average diameter .095. Average length .940. (Do not use in any other lighter.)

WICKS

LIKE flints, it is always better to use a better quality wick; one that will not burn down too quickly and will provide the proper capillary action to draw fluid from the cotton and bring it up to the exposed end of the wick, ready for instant firing.

Also, like flints, there are different size wicks which should be used in the proper lighter.

Listed below are the different types of wicks and the lighters in which they should be used.



W-410 Standard Scotch Braid Wick

This is a standard wick that will work in most any popular lighter. It is chemically treated to keep it from burning.

Average diameter .101 Average length 6 inches



W-440 The Gold Seal Wick for Ronson and other lighters.

This is a special modification of the standard wick. It has two notable improvements.

1. It is equipped with a wire inserter, attached to the bottom end by means of a plastic tip.
2. At the top of the wick is a small gold colored ferrule which fits the wick hole of most popular lighters. This small ferrule acts as a seal and reduces the size of the wick hole; cutting down on evaporation, preventing leakage, and prolonging the fuel's lasting qualities.

Average diameter of ferrule .091 Average diameter of wick 6 inches
Average length of wire 3 inches



E-401 The Red Wick and Seal for Evans lighters.

This is another wick (red in color) equipped with the wire inserter and a special ferrule that fits the wick hole on most Evans lighters.

Average diameter of ferrule .106 Average length of wick 6 inches
Average length of wire 3 inches



G-403 Wick for Giant.

This is an exceptionally large diameter wick and can be used only in the Galter Giant lighter.

Average diameter .156 Average length 6 inches

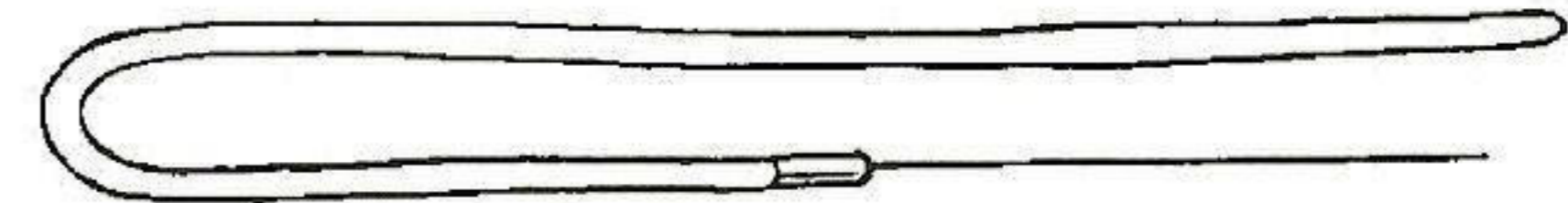
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W-405 Asbestos wick for Zippo and other windproof lighters.

This wick is made of non inflammable material (asbestos). It is woven of several strands and the exposed portion in the top of the lighter can be frayed so that several ends are exposed to the sparks from the flint. This helps the lighter to light even in a wind.

Average diameter .092 Average length 6 inches



W-406 12 inch Wicks with Wire

This is a repairman's wick. It can be pulled through the lighter and a six inch wick cut off. Then the remaining six inch portion, with its wire inserter, can be used in another lighter.

Average diameter .101 Average length of wick 12 inches
Average length of wire 3 inches



W-407 Wick for Dunhill

This wick is slightly smaller in diameter than average, due to small wick hole in Dunhill lighters. Has a flat metal inserter that reduces wick to correct size and guides it through the lighter.

Average diameter of guide .070 Average diameter of wick .089
Average length of wick 10 inches Average length of inserter 2 inches



W-411 Wick Glassine

This wick is the same diameter as standard, but is woven of spun glass. It is very stiff and hard to work with. It does not burn, but chars away until there is nothing left to get hold of to pull it up.

Average diameter .075 Average length 4 1/2 inches



C-425 Special Strip Cotton for Repacking

This is a highly absorbent cotton made up especially for repacking lighters, and supplied in a continuous roll.

The cotton is in ribbon form about 1/2 inch wide. It makes repacking much easier.

GENERAL INFORMATION

The basic parts that are used to make cigarette lighters have certain common defects which can usually be spotted when the customer brings his lighter in to be repaired.

To help you to recognize these, we have made up the following list:

1. **THE FILE WHEEL** (sometimes called sparking wheel, flint wheel, clutch wheel or pawl wheel)

This wheel is the cutting tool which scrapes the top of the flint and causes the sparks that ignite the wick. Quite often the tiny crevices between the cutting edges become jammed up with dirt, flint filings, etc. To provide maximum spark, the wheels should be brushed frequently to remove this dirt, etc.

If, after cleaning, the wheel still does not spark properly, the cutting edges have become dull and the wheel must be replaced.



2. **THE FLINT SPRING.** This is a spring that provides constant pressure to hold the flint against the file wheel.

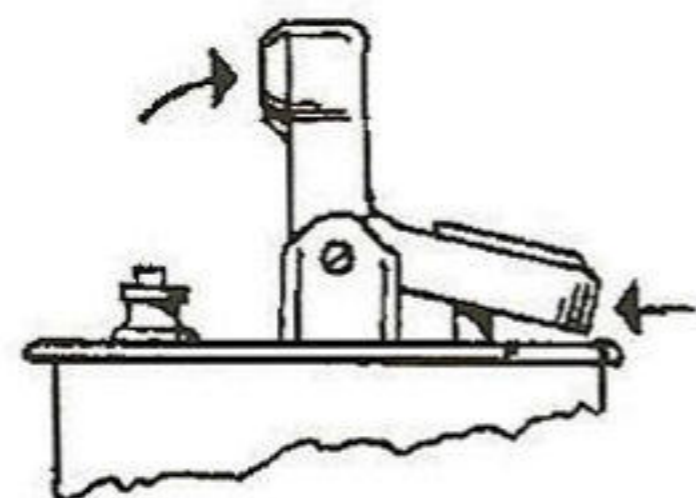
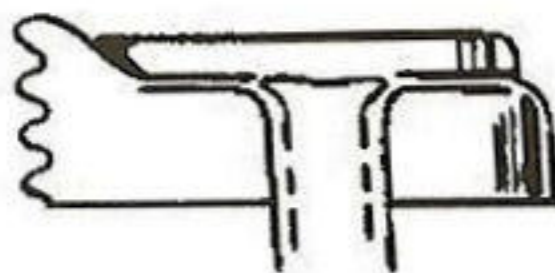
It must be exactly the proper tension. Too much will cause the lighter to bind. Not enough will cause the flint not to spark.



3. **GEARS** are made of soft brass material and wear out due to the constant wearing of the plunger against them.



4. **THE PLUNGER** is one of the most easily broken parts on the lighter. Actually it is shaped like a "T" and it is riveted together as illustrated below.



If pressure by the thumb is not applied directly over the post, it can cause the plunger to break at the post where this post is riveted to the top. This results either in the plunger becoming completely disengaged and falling out of

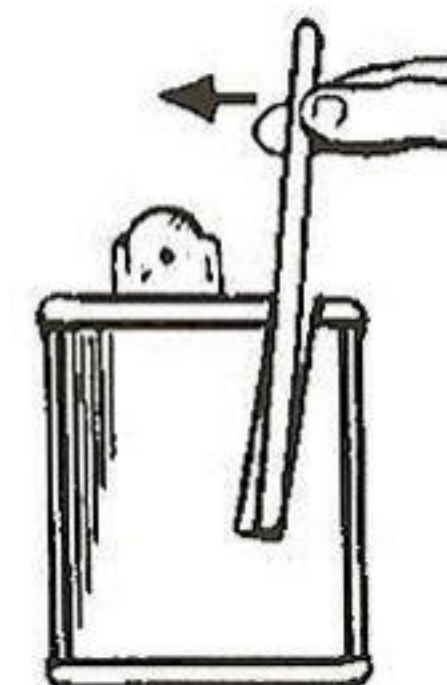
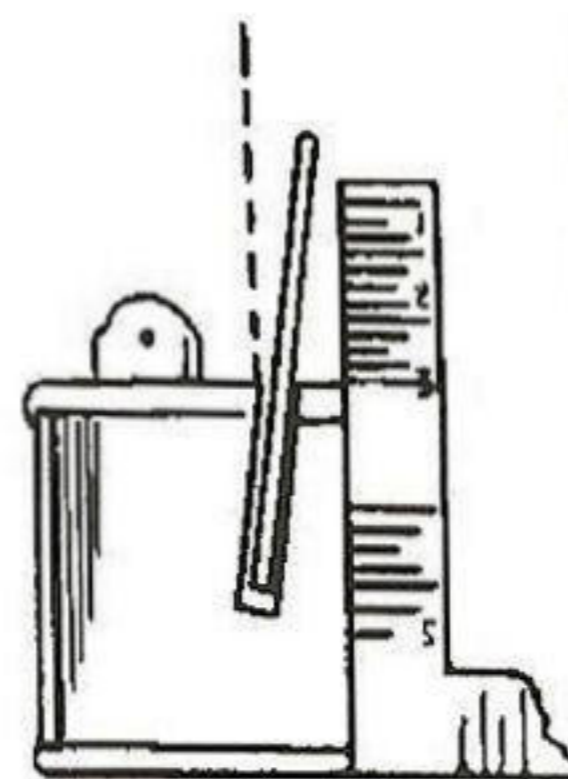
the lighter . . . or . . . sometimes it will bend slightly as illustrated above and will not allow itself to be pressed down far enough. This in turn causes the snuffer not to go up as high as it should and the wheel not to make a full turn.

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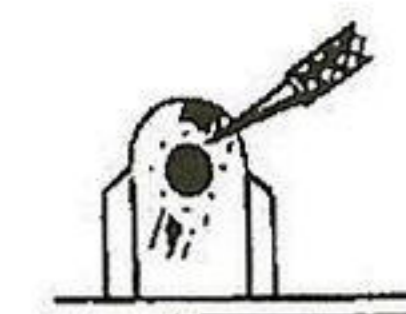
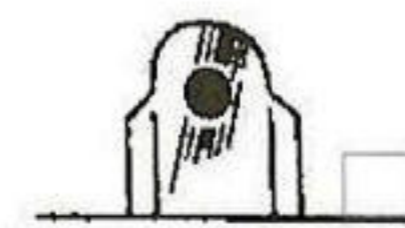
8. Sometimes, due to excessive use, the plunger guide is bent away from the wheel.

This can be corrected by using a tool such as a punch that will fit down into the guide tube, and bending it back toward the file wheel.

You can recognize this trouble by standing the lighter on a table and inserting a tool that fits snugly in guide. Tool should be at perpendicular to table top.



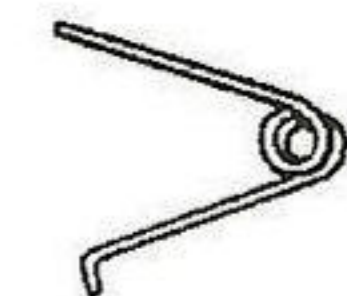
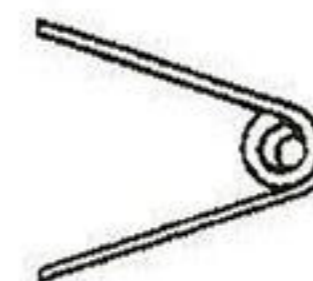
9. The size of the holes in the lighter posts, through which the fulcrum shaft is fitted, sometimes become enlarged due to excessive wearing. To reduce the size of the hole back to its original size, tap lightly around the edge of hole with a good pointed punch.



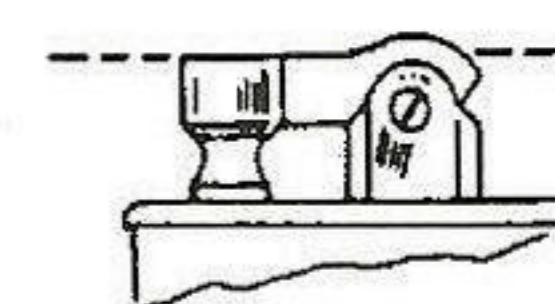
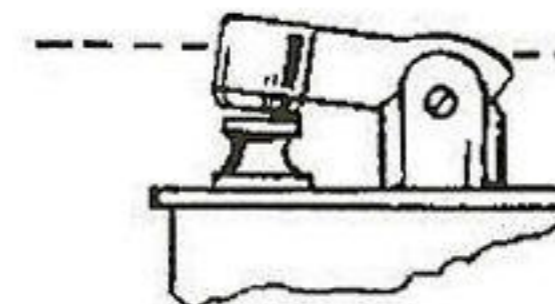
10. Occasionally you may encounter an older model lighter with a high plunger guide. This prevents the newer style plunger from going down far enough and must be filed off accordingly.



11. Tension of a main spring can be increased by bending the end as illustrated below.



12. Sometimes a new snuffer will not seat properly on wick holder and, consequently, does not allow the clutch spring to slip back far enough to pick up another ratchet on the wheel. This can be remedied by burling out the snuffer cup till it seats itself properly.

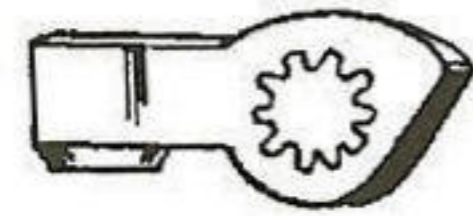


A TIP TO THE WISE REPAIRMAN

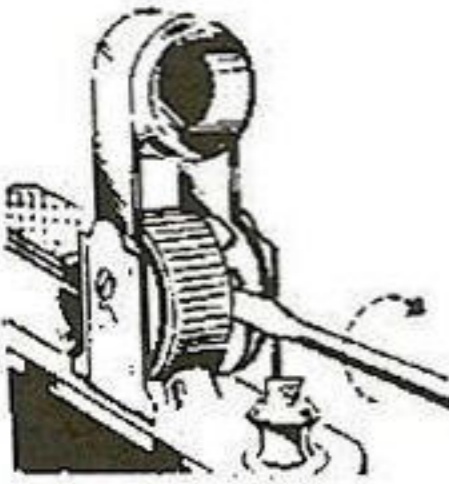
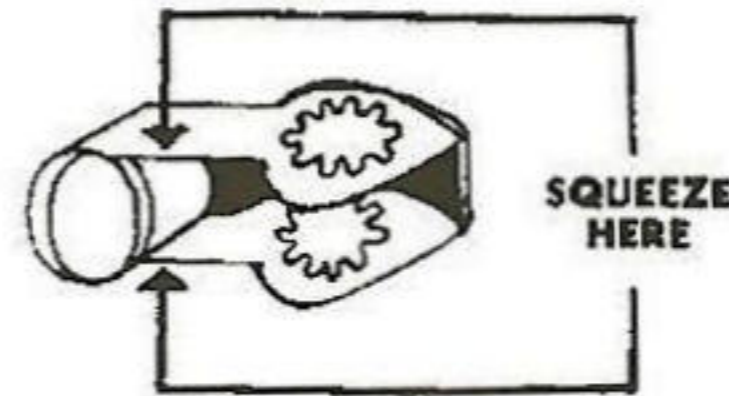
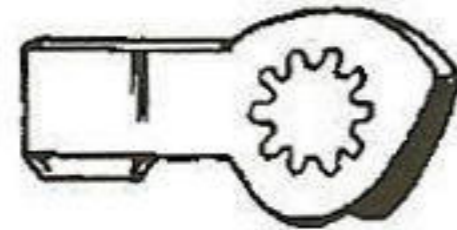
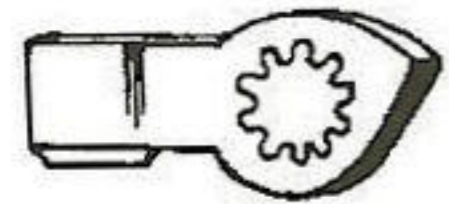
When you return your customer's repaired lighter to him, always put his old broken parts in the envelope to show him what you replaced.

GENERAL SOLDERING

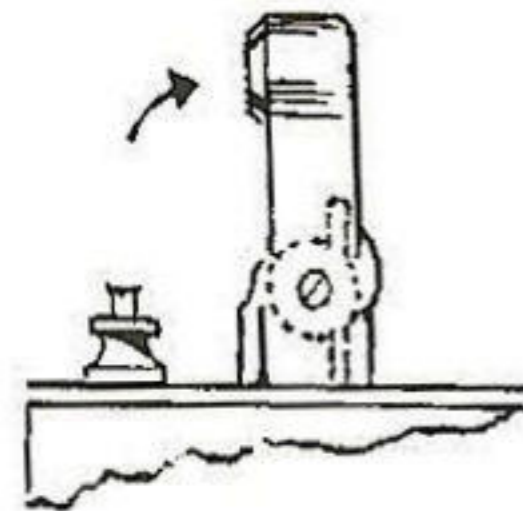
We do not recommend that you encourage soldering work, but if you find it necessary to satisfy a particular customer, we think that you will find the following information helpful.



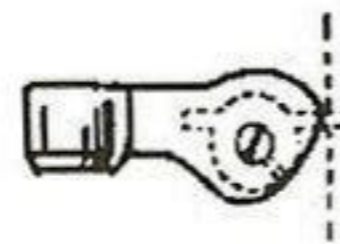
5. **THE SNUFFER** is the unit at the front of the lighter which holds all the parts in place, turns the clutch spring, and snuffs out the flame. The most common difficulty with the snuffer is that the walls get bent either in or out, as illustrated left. Sometimes the snuffer cup becomes loose in the older model snuffers. This can be remedied by squeezing the sides of the snuffer together directly behind the snuffer cup.



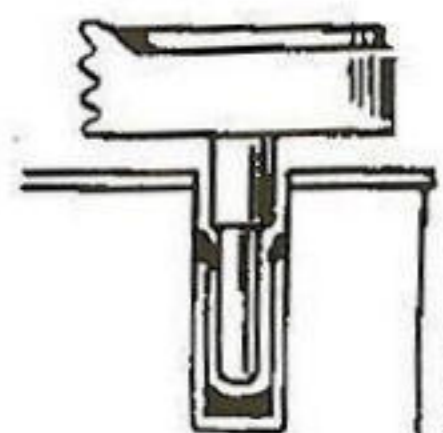
6. **THE CLUTCH SPRING** is a small flat spring wheel ratchet which is used to turn the file wheel. The leaf of the spring which engages the ratchet on the side of the wheel is not always bent at the correct angle. Sometimes it has too much bend and presses too hard against the wheel, causing the lighter to bind. Sometimes it is bent too far away from the wheel and does not engage the ratchet at all. It slips. In either case, a flat screw driver or some similar tool can be used to bend the leaf toward, or away from, the wheel as required.



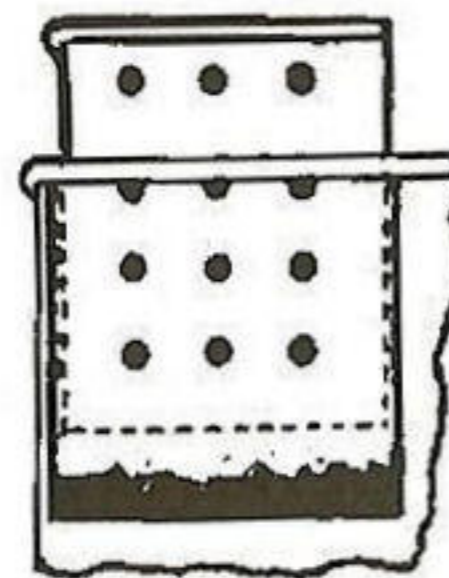
You will notice when looking at the spring that there is an extension at the back which sometimes is too long and hits the top of the lighter when it is operated as illustrated, left. This can be corrected by grinding a portion off this long extension as illustrated right.



7. **DIRT** that accumulates in a lighter is a major cause of lighter difficulties.



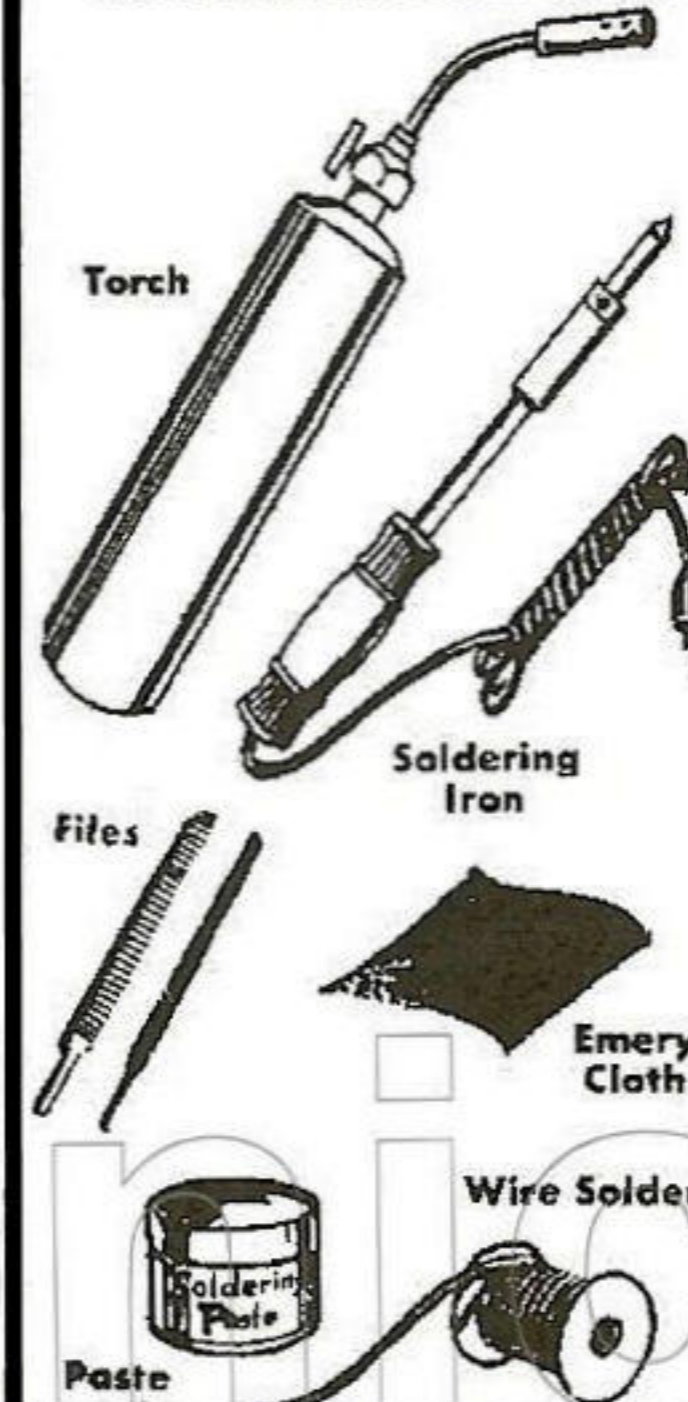
The plunger guide is a common place for caked dirt to cause trouble. It gets down in this tube and builds up until it obstructs the plungers action. See illustration at left.



The same effect is found when dirt gets down under a Whirlwind wind-guard. The only remedy is to remove the parts and clean out all the dirt.

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Before you can begin to handle soldering work you must have certain tools with which to work:

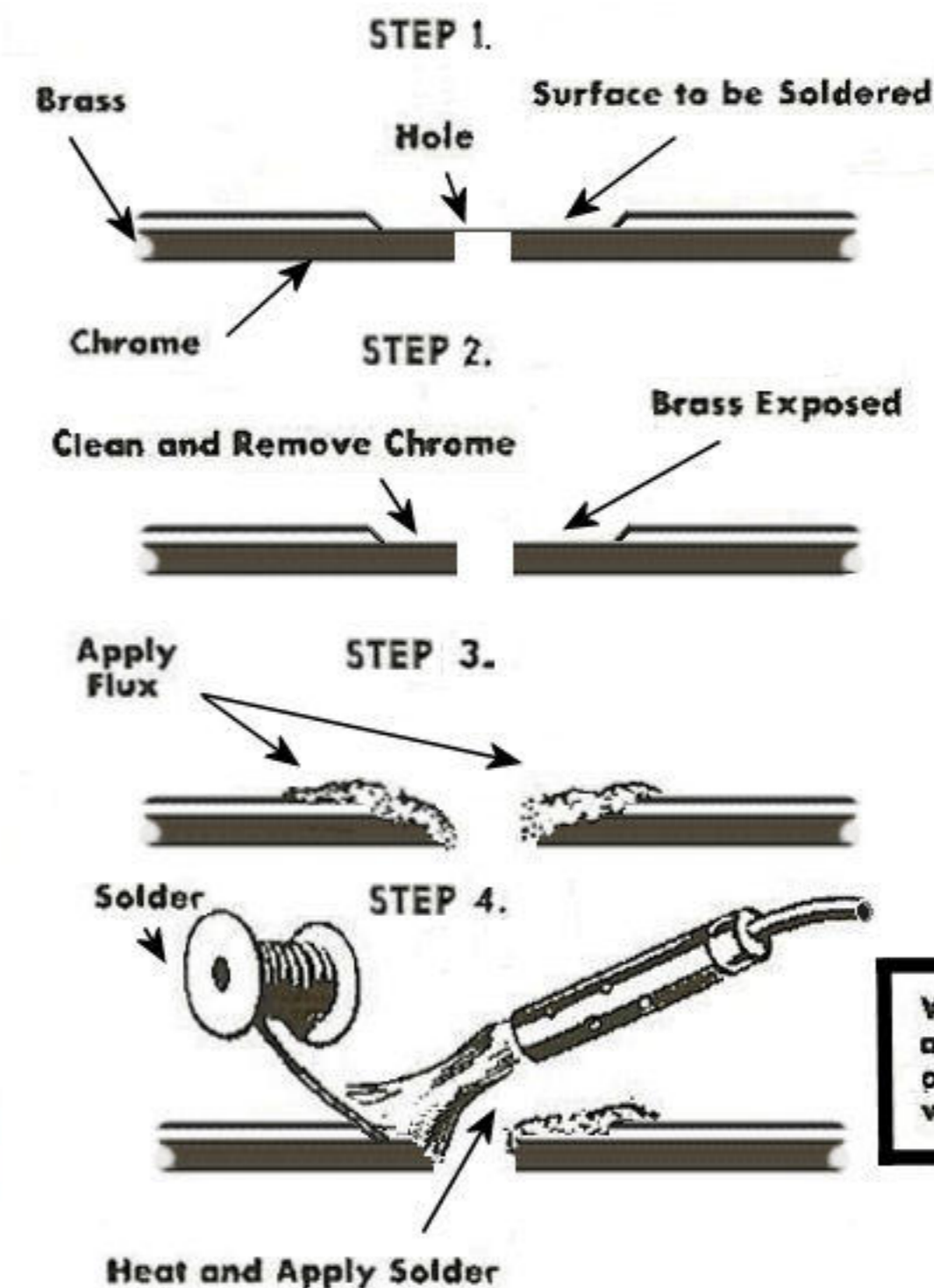


First you must have a torch. We recommend the type which uses compressed gas as a fuel. Second there are certain instances where you may need to use a soldering iron. For this purpose we suggest a small, light, easily handled iron, preferably 100 watt or more.

Third you will need some small files and emery cloth with which to scratch the surface about to be soldered.

You will also need some soldering paste (flux) to be used to make the solder stick. And last but not least, we suggest a good acid core lead solder with a low melting point.

The first and most important rule for good clean soldering is to remove all dirt, grease, wax and other material from the surface about to be soldered.



Most cigarette lighters are electroplated with chromium, silver, gold or some other material. The parts are usually made from brass, steel or cast zinc.

Since solder will not stick to chromium and some of the other materials that are used to finish lighters, we suggest you scratch through the finish metal until the basic metal such as brass is exposed.

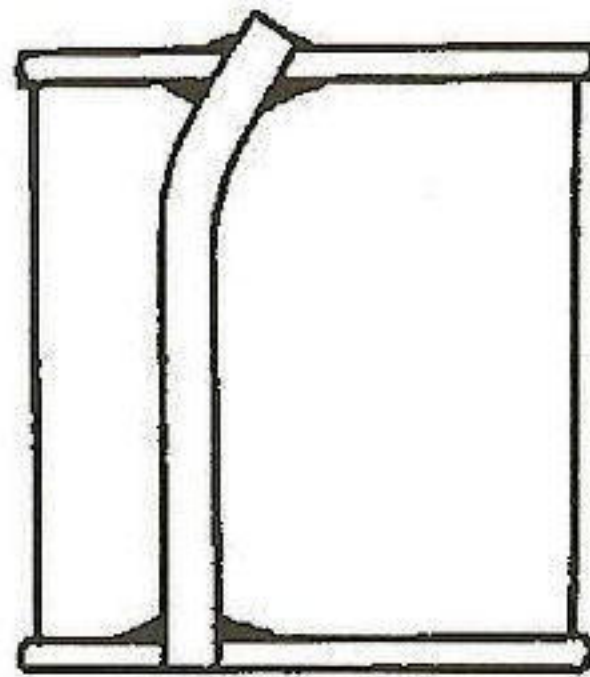
We will describe for you in detail how to solder some of the parts which might be broken on a Ronson lighter. You can follow the same general procedure in soldering parts on other lighters.

WARNING: Do Not Attempt to Solder Lighters That are Covered in Leather, or Those Which are Painted or Those Which are Plated and the Plating Covered with Clear Lacquer. Heat will ruin the finish.

ACTUAL SOLDERING PROCESS

Note: Before attempting any soldering at all, be sure to remove all cotton and wicking material or, if it is a Butane lighter, remove the fuel tank before applying any heat. This is done to avoid causing an explosion of the lighter.

THE FLINT TUBE



The flint tube in a Ronson lighter is fastened in place by soft solder which secures it to the top plate and the bottom plate as illustrated at left.

Usually this tube works itself loose due to the pressure of the flint spring which actually pulls it downward and away from the wheel.

This leaves a space between the top of the flint tube and the file wheel which allows the flint to turn and form a sort of wedge; this strain usually results in damage to the various parts (See Diagram 1).

DIAGRAM 1

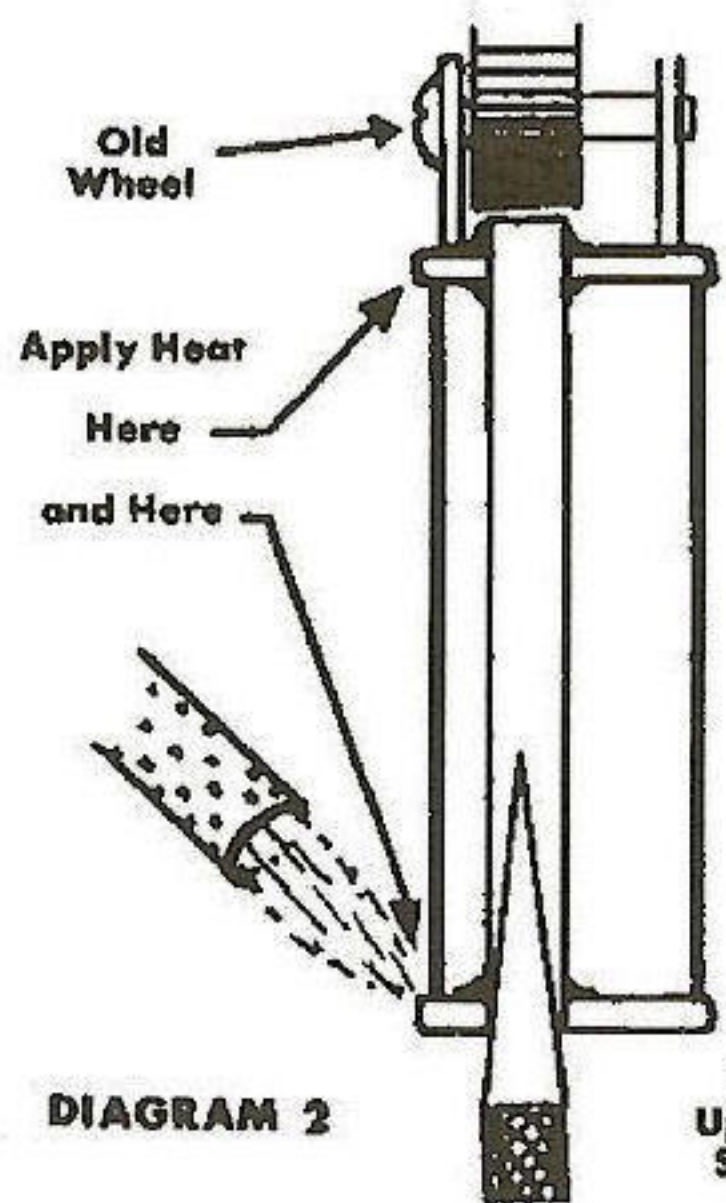
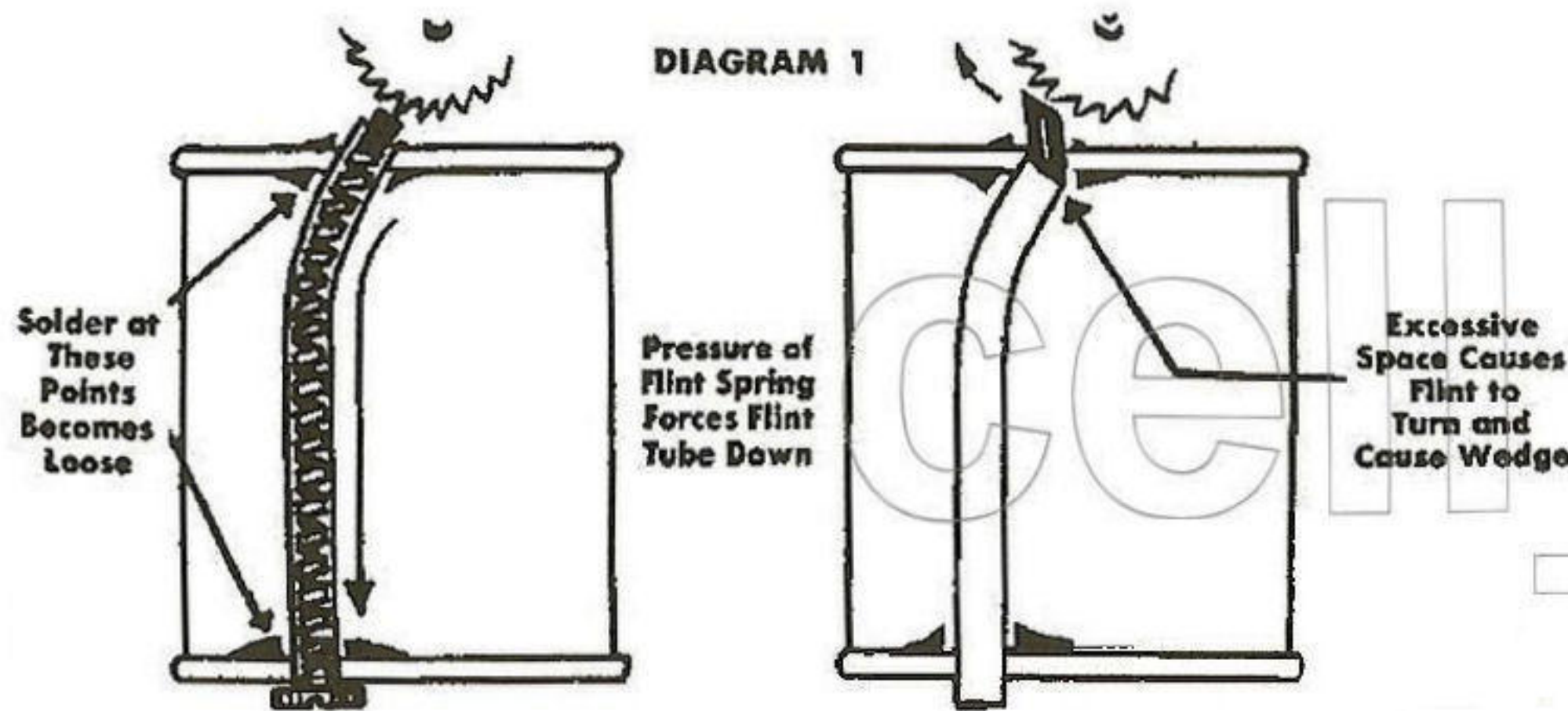


DIAGRAM 2

Force Flint Tube Upward with Awl or Similar Instrument

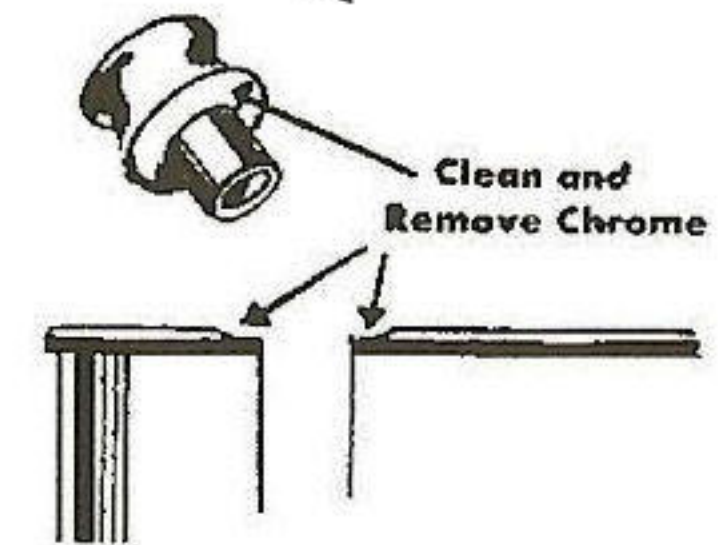
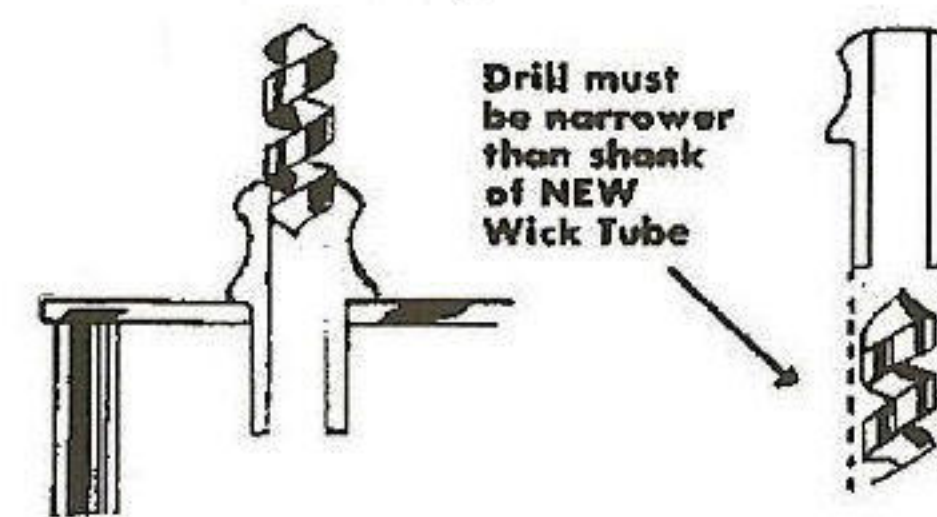
To correct this, first remove all of the working parts and cotton packing, then put an old wheel and an old fulcrum screw into the lighter to act as a stop so that you do not push the tube up too far (See Diagram 2).

Then applying heat to the bottom plate and top plate of the lighter to loosen the old solder, you use a small tool such as an awl to push the tube upward to the proper position.

Then after allowing the lighter to cool, remove the old wheel and fulcrum, replace wick and cotton packing and fill the lighter with fuel to check for leaks.

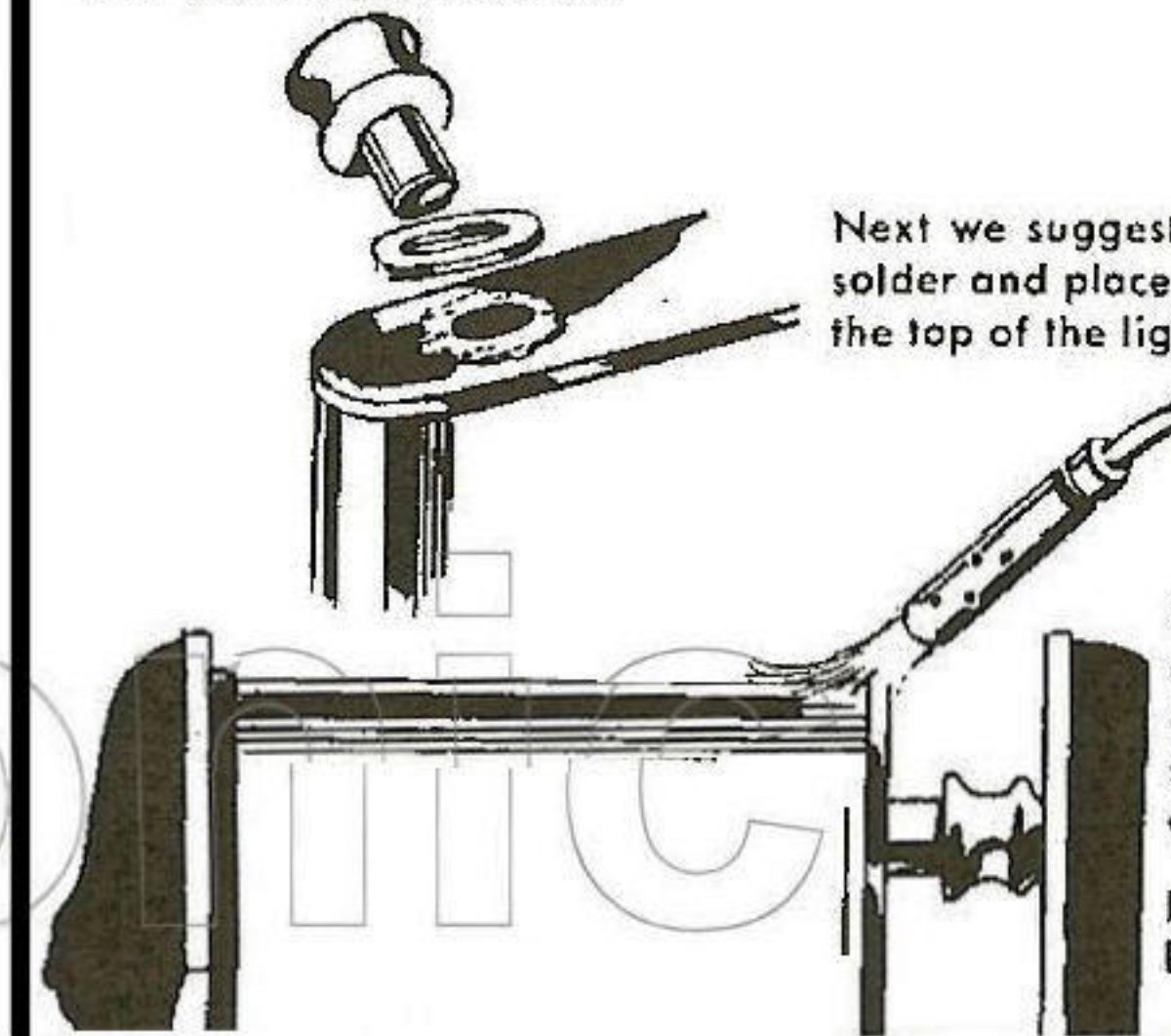
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THE WICK TUBE



To resolder a wick tube in place you must first remove the old wick tube either by drilling or reaming, using a drill or reaming tool slightly smaller in diameter than the diameter of the shank of the new wick tube you are about to use.

The area immediately around the hole must be clean and chromium plating removed. The chromium plating on the bottom or the new wick tube must also be removed.

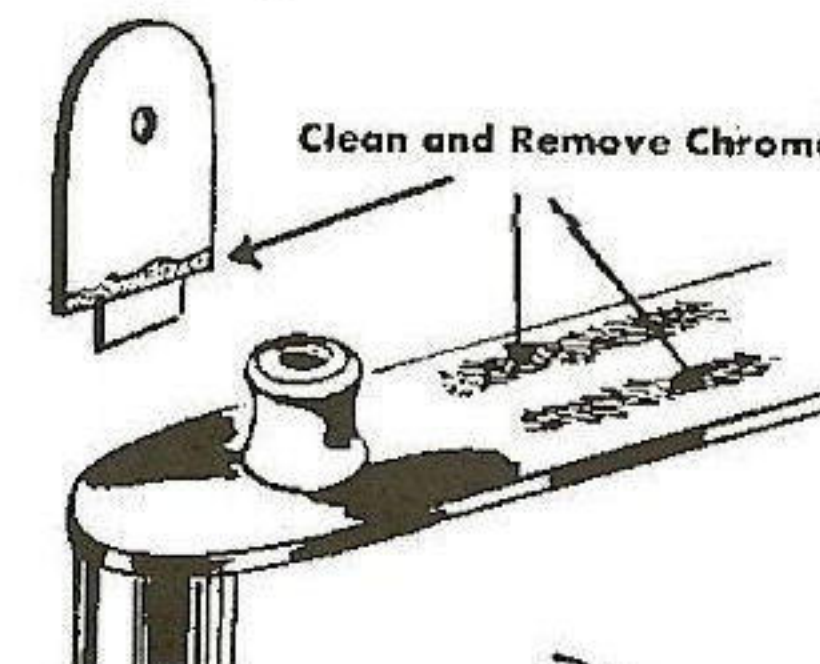


Next we suggest that you cut a small ring of solder and place it between the wick tube and the top of the lighter as illustrated at left.

Place the whole unit in a vice (left) and applying heat until the solder melts, closing the vice with a slow easy pressure until the wick tube is seated flush on the top of the lighters.

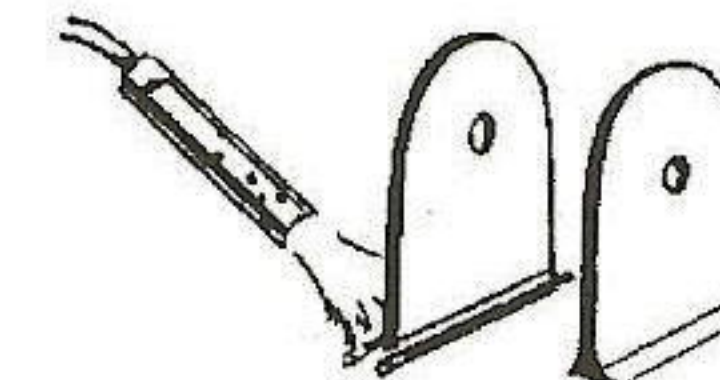
Rewick, repack and recheck for leaks after cooling.

LOOSE SIDE POSTS

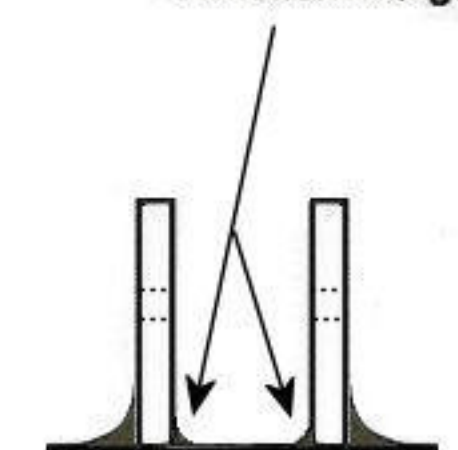


Remove all parts from top of lighter and remove wick and packing cap; using a good pointed file, remove chromium plating on both sides of loose posts and on corresponding area on top of lighter, (left).

Cut a long piece of solder and lay it along both sides of the post. Apply heat and spread solder to completely surround and support the post making sure that the solder on the inside will not interfere with working parts.



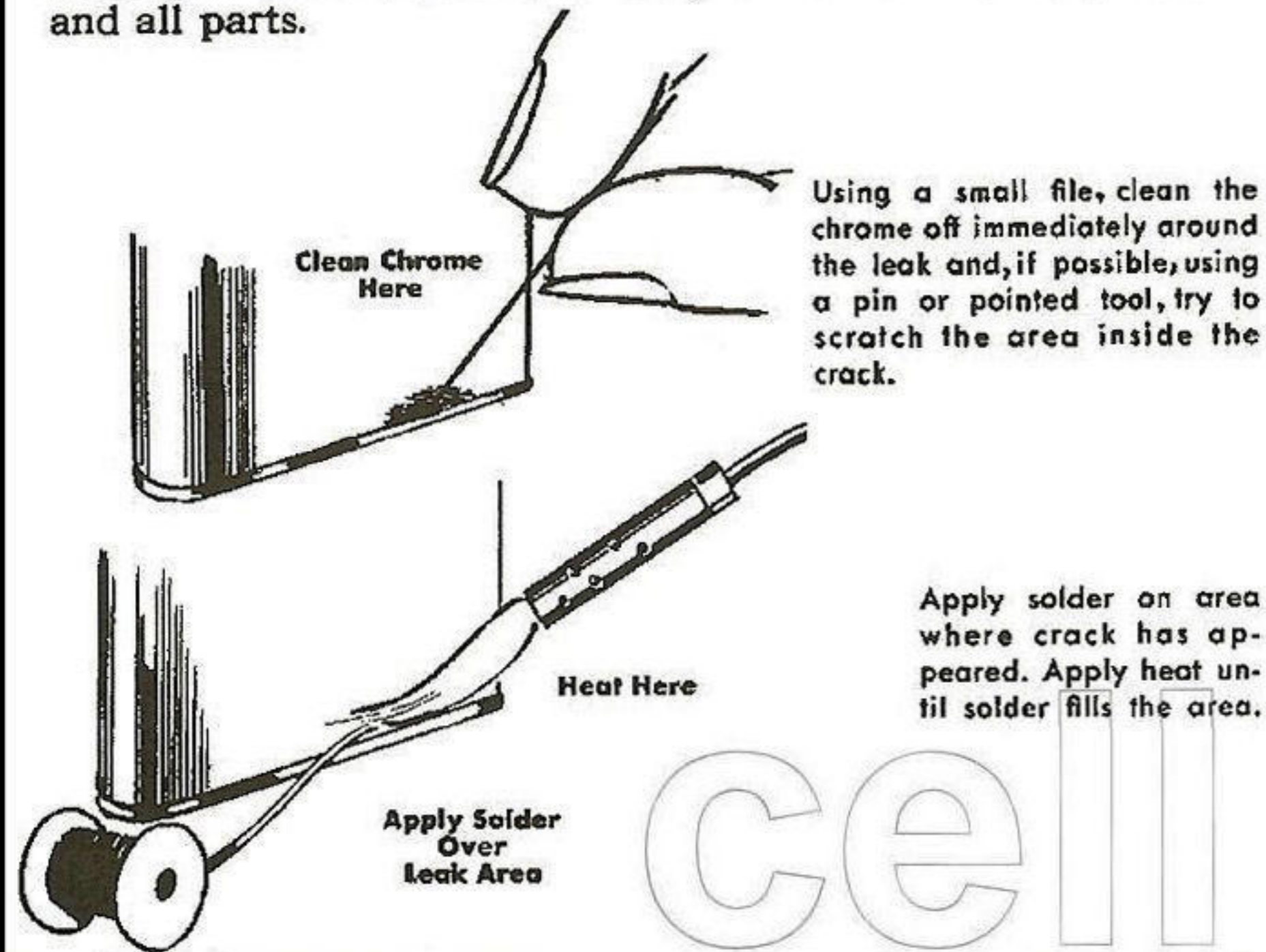
Keep solder on inside of posts to a minimum height.



After cooling, rewick, repack and check for leaks

LEAKY FUEL TANK

Quite often the solder which holds the top and bottom plates on the lighter tank will develop leaks. These leaks can usually be easily located just by examining the lighter when it is full of fuel. Once you have located the leak, remove the cotton, wick and all parts.



Using a small file, clean the chrome off immediately around the leak and, if possible, using a pin or pointed tool, try to scratch the area inside the crack.

Apply solder on area where crack has appeared. Apply heat until solder fills the area.

This should give you a pretty good idea how to solder broken parts on lighters. For the most part the same tools and the same procedures are used on other types of lighters.

★ **YOU CAN GET YOUR FREE COPY OF THE "COMPLETE REPAIR MANUAL"**
(One to A Customer)

1. By purchasing of X-500 Kit of parts to fit Ronson which sells at \$50.00 net.
2. By purchasing \$50.00 net in Repair Parts.

★ **YOU CAN GET YOUR FREE COPY OF "THE EVANS REPAIR MANUAL"**
(One to A Customer)

1. By Purchasing EX-250 Kit of Parts to fit Evans which sells at \$25.00 net.
2. By purchasing \$25.00 net in repair parts.

★ **YOU CAN GET YOUR COPY OF THE "A.S.R. REPAIR MANUAL"**
(One to A Customer)

1. By purchasing AX-250 Kit of Parts to fit A.S.R. lighters which sells \$25.00 net.
2. By purchasing \$25.00 net in repair parts.

Note: Only one Repair Manual is available per customer.

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Parts to refill all kits are available from
LIGHTER PARTS, INC., 2 E. Stockton Ave., Pittsburgh 12, Pa.