



tools for the rebuilder

**AUTO ELECTRIC
ENGINEERING**

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TOM M. DONAHOE

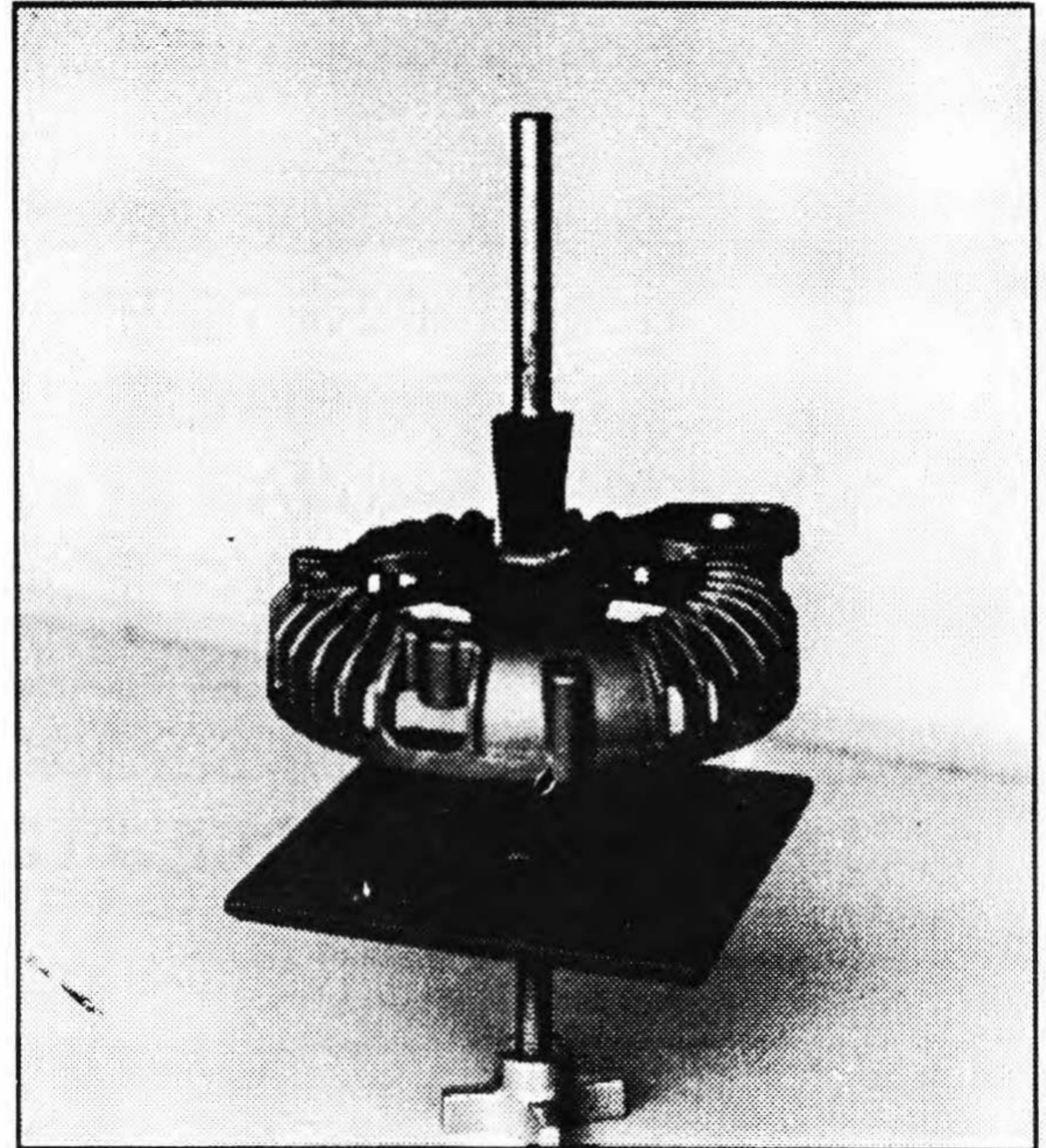
if rebuilding is your business
you ought to know
There's a better, easier and
faster way to do it.

AND WE MAKE IT

Consulting Services

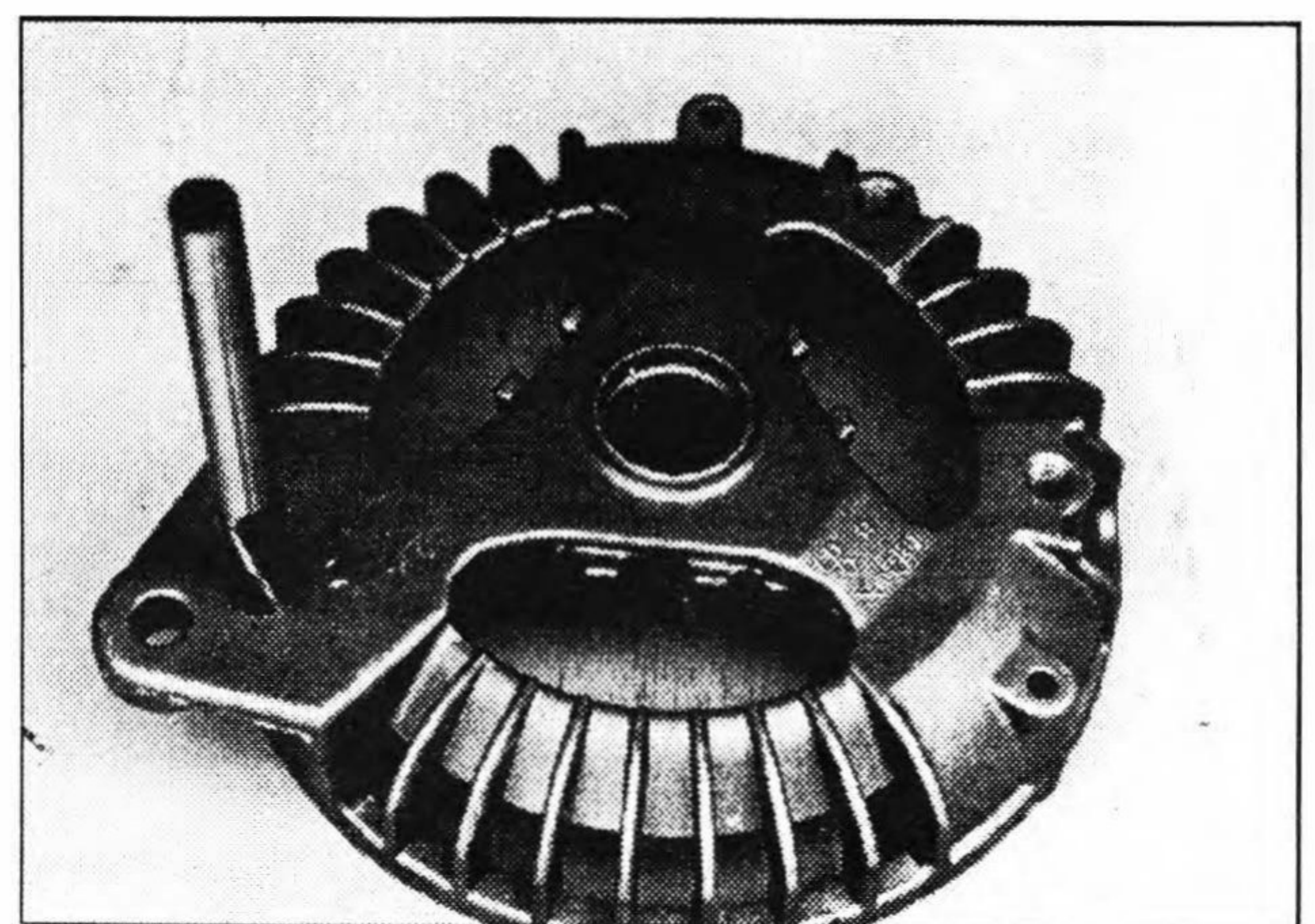
0105 CHRYSLER & DELCO ALTERNATOR DRIVE HOUSING BEARING PULLEY SHOULDER FIXTURE

- * REPAIRS DRIVE HOUSING WHEN BEARING FAILS AND HOUSING BECOMES DISORTED.
- * REMACHINE DRIVE HOUSING FOR PENNIES.



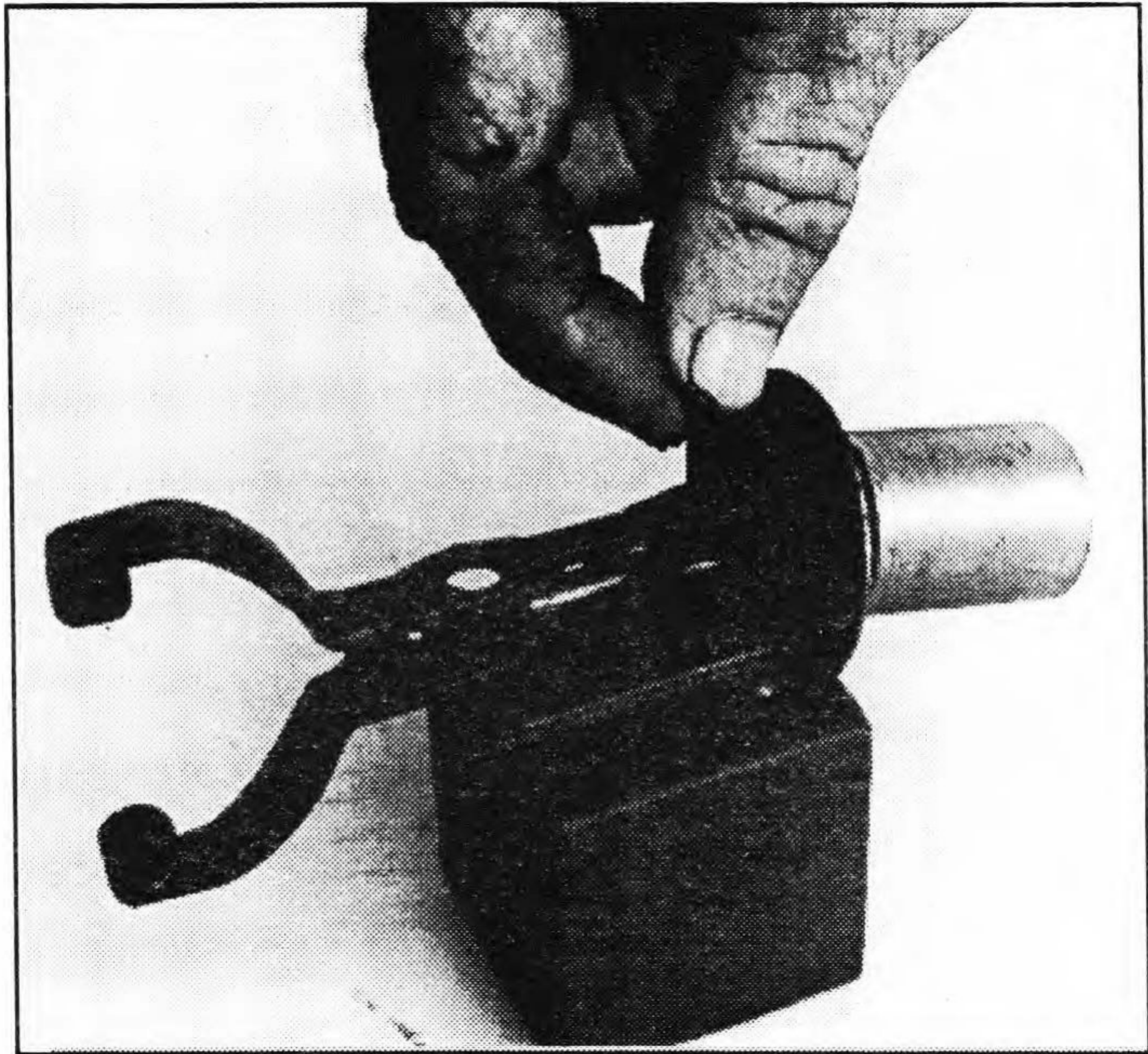
0130 CHRYSLER ALTERNATOR DRIVE HOUSING COUNTER SINK CUTTER

- * SAVE MONEY
- * ALLOWS USE OF OLD STYLE CHRYSLER DRIVE HOUSING BY COUNTER-SINKING THE LOWER THROUGH BOLT.



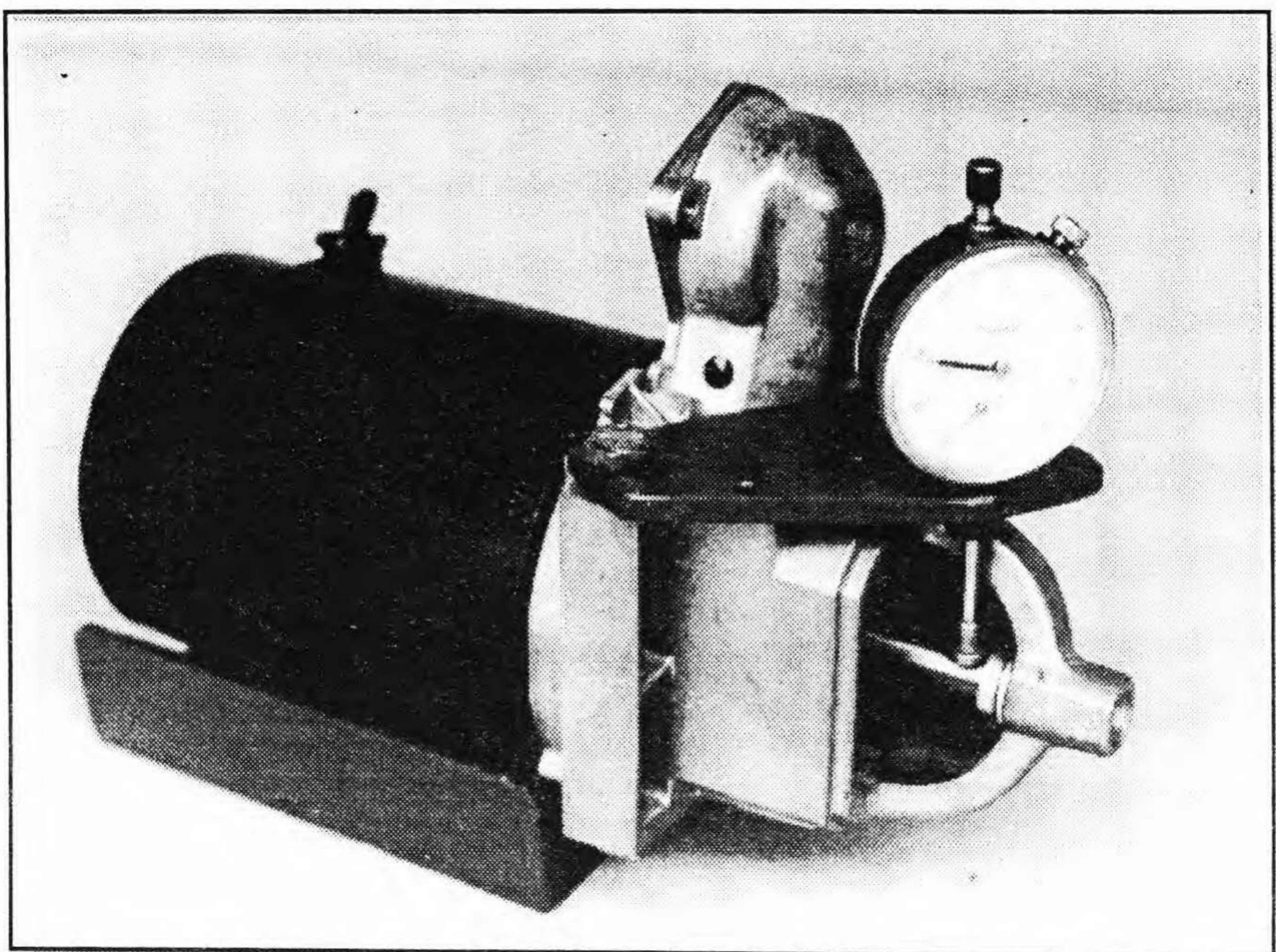
No. 500

- * **ROLL PIN REMOVER & INSTALLER**
- * REMOVE AND INSTALL THE ROLL PIN FROM THE DELCO SHIFT LEVER AND PLUNGER ASSEMBLY.
- * ONLY TOOL NEEDED IS A HAMMER!



502 DRIVE HOUSING MEASURING FIXTURE

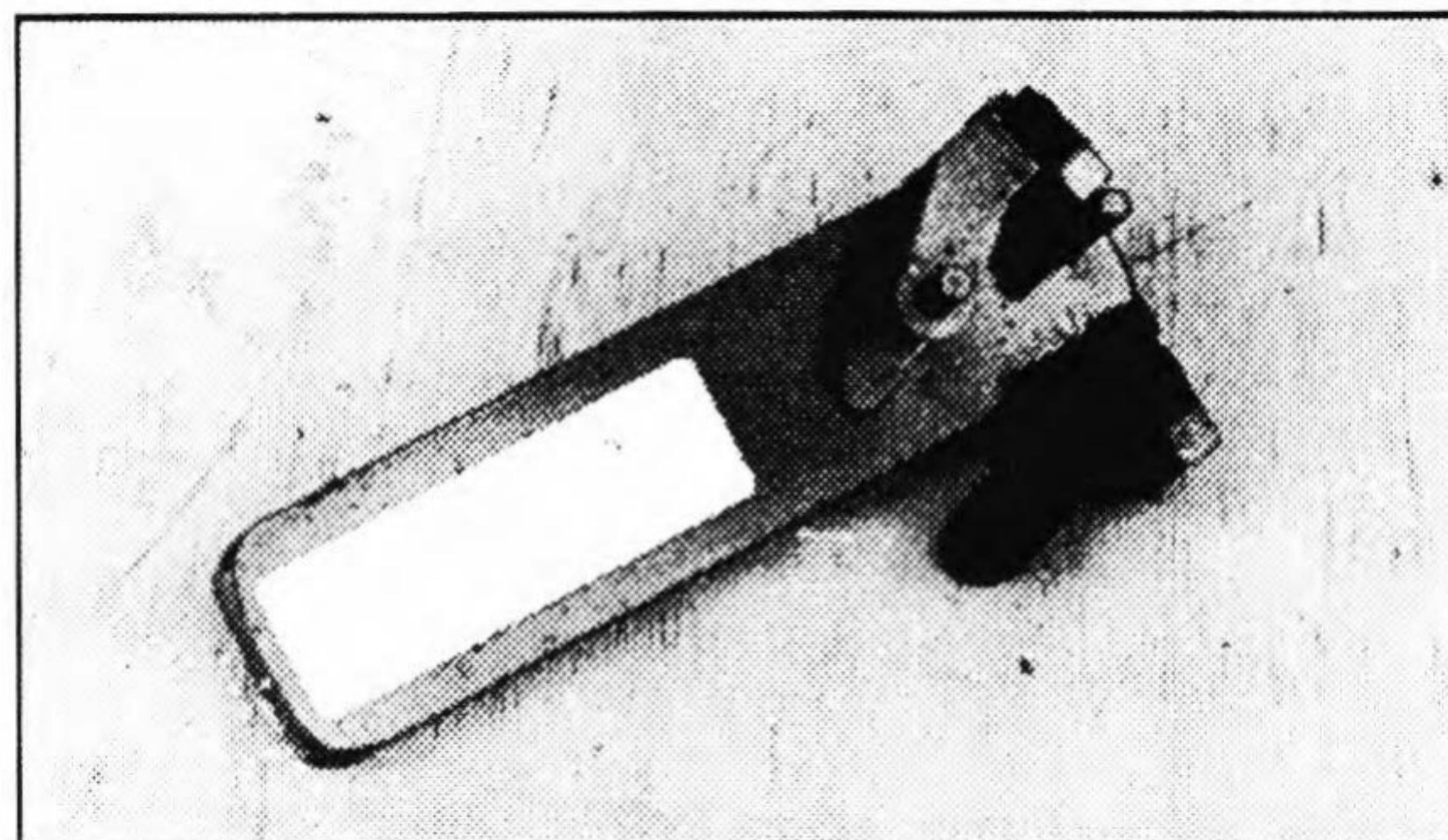
- * COUNTER AID.
- * ACCURATE MATCHING OF CUSTOMERS STARTER TO REBUILDERS UNIT.





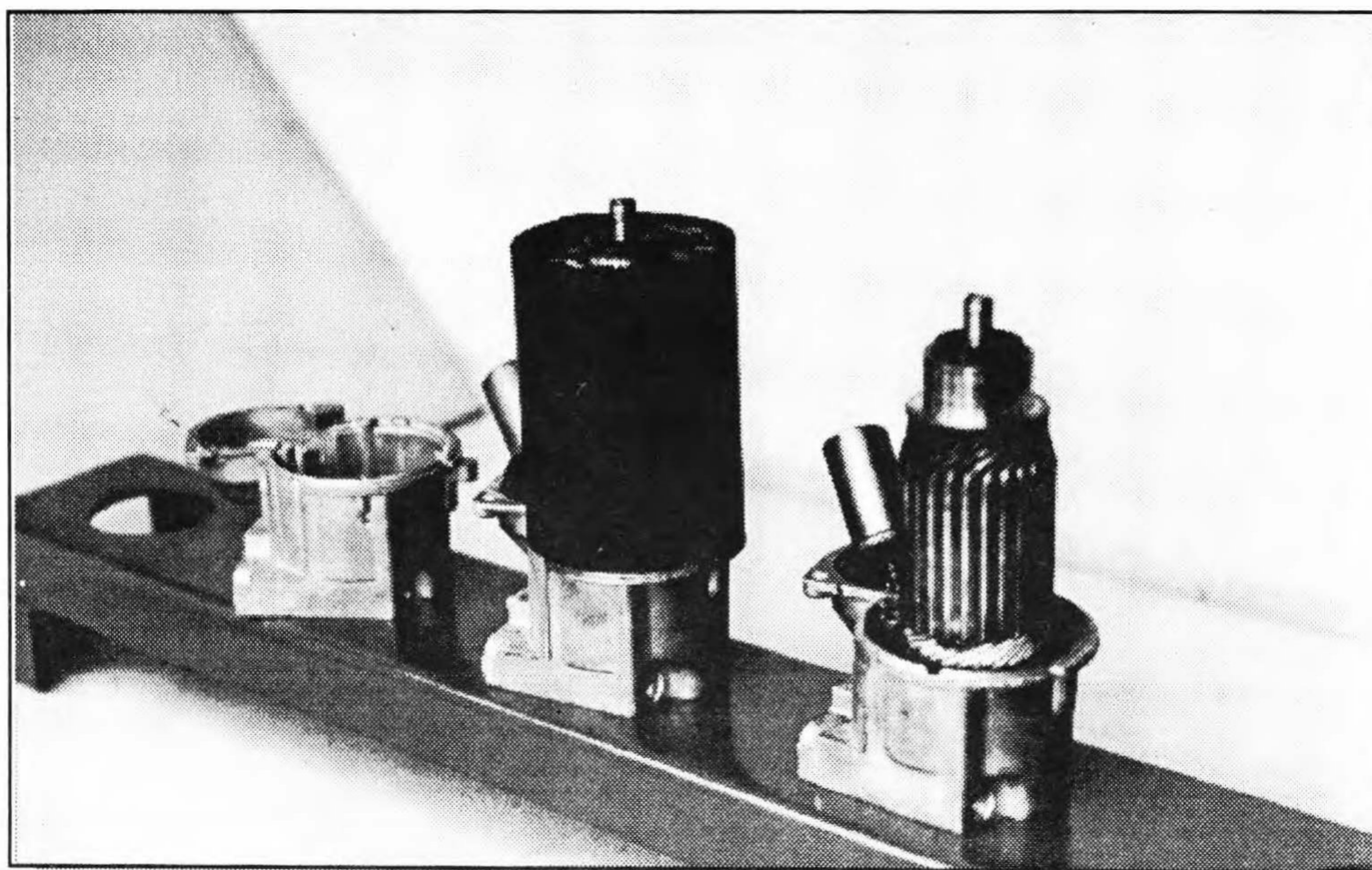
504 DELCO STARTER BRUSH INSTALLATION TOOL

- * HAND HELD.
- * SIMPLE TO OPERATE.
- * ACCURATE, FAST AND DURABLE.



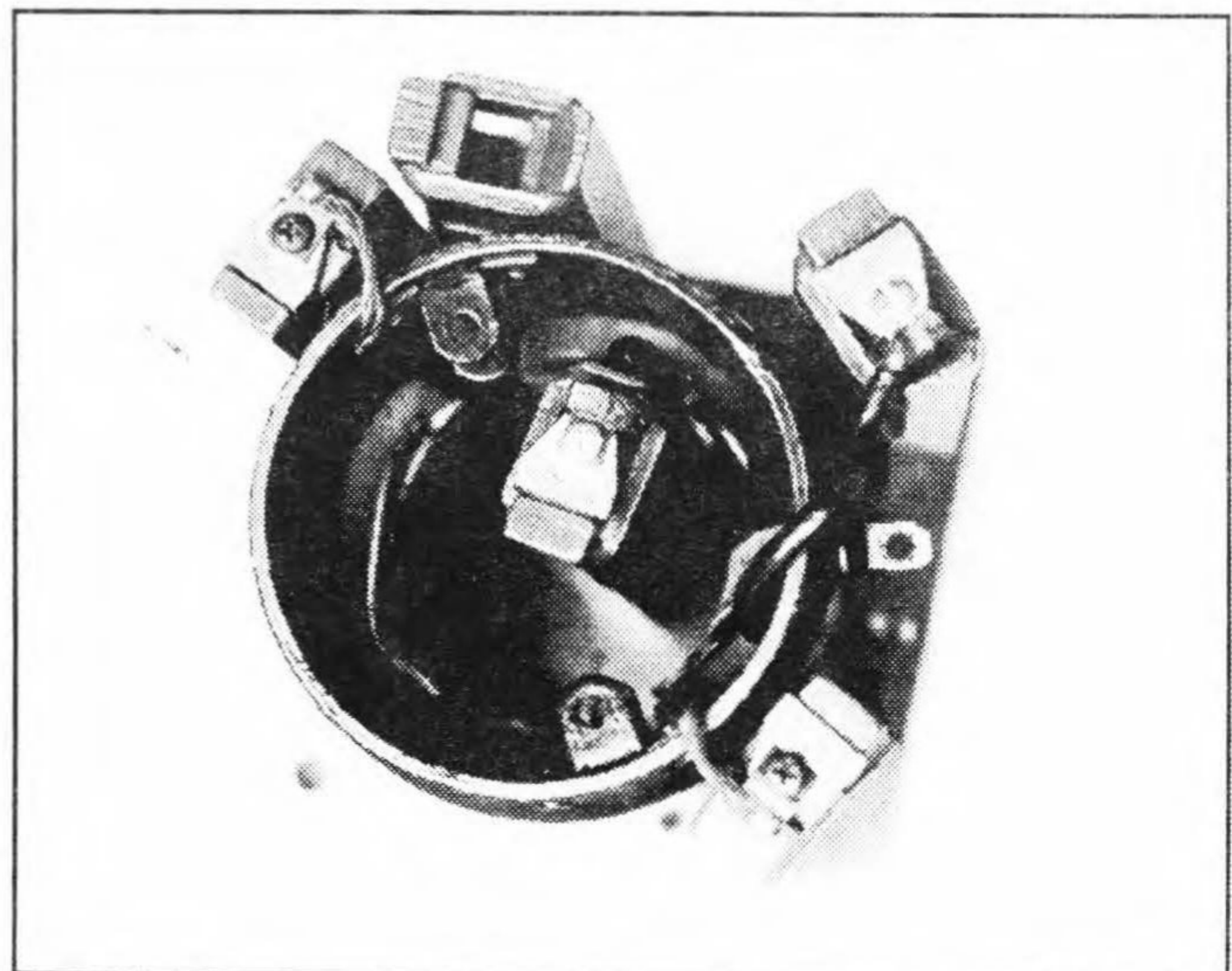
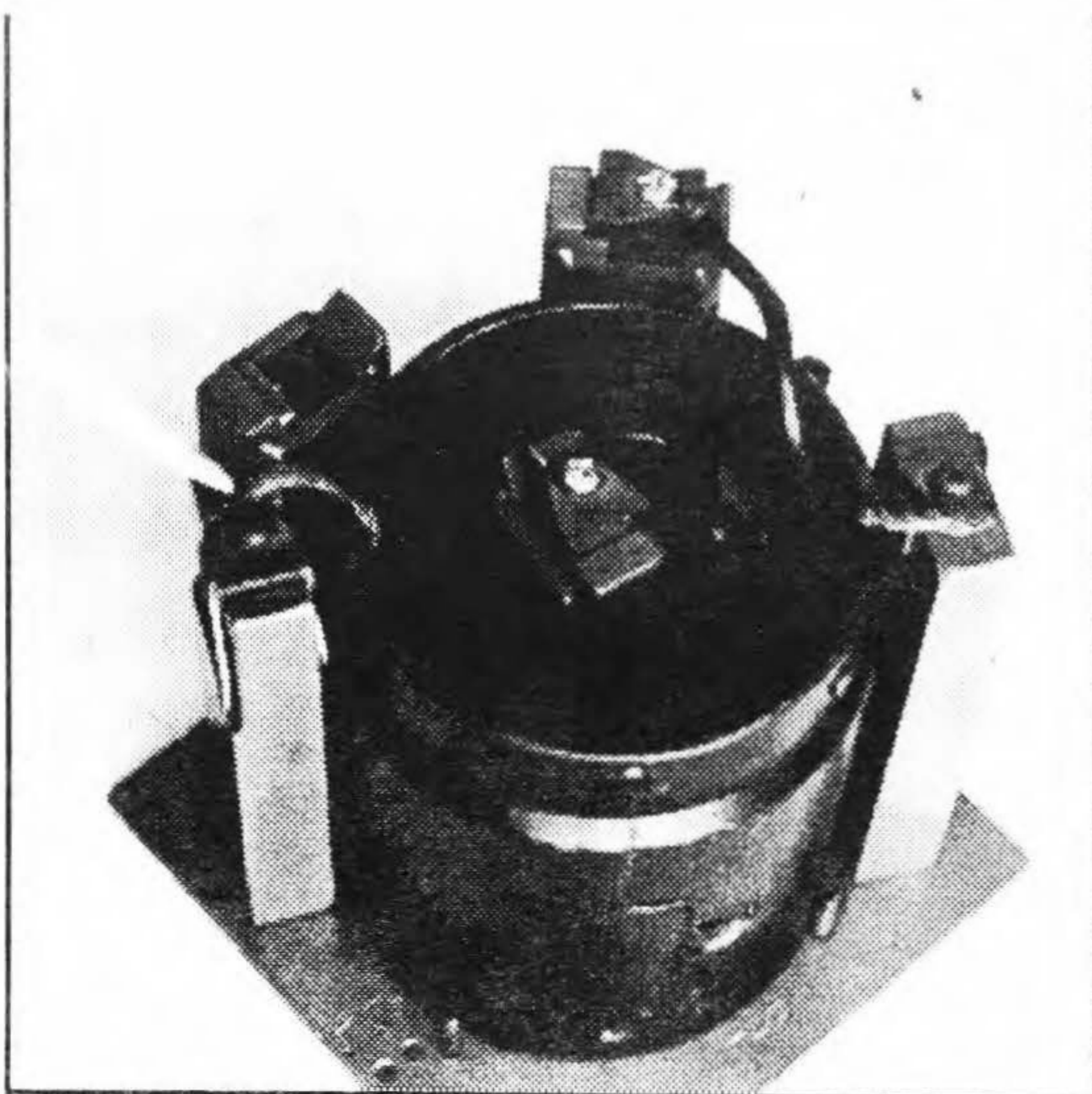
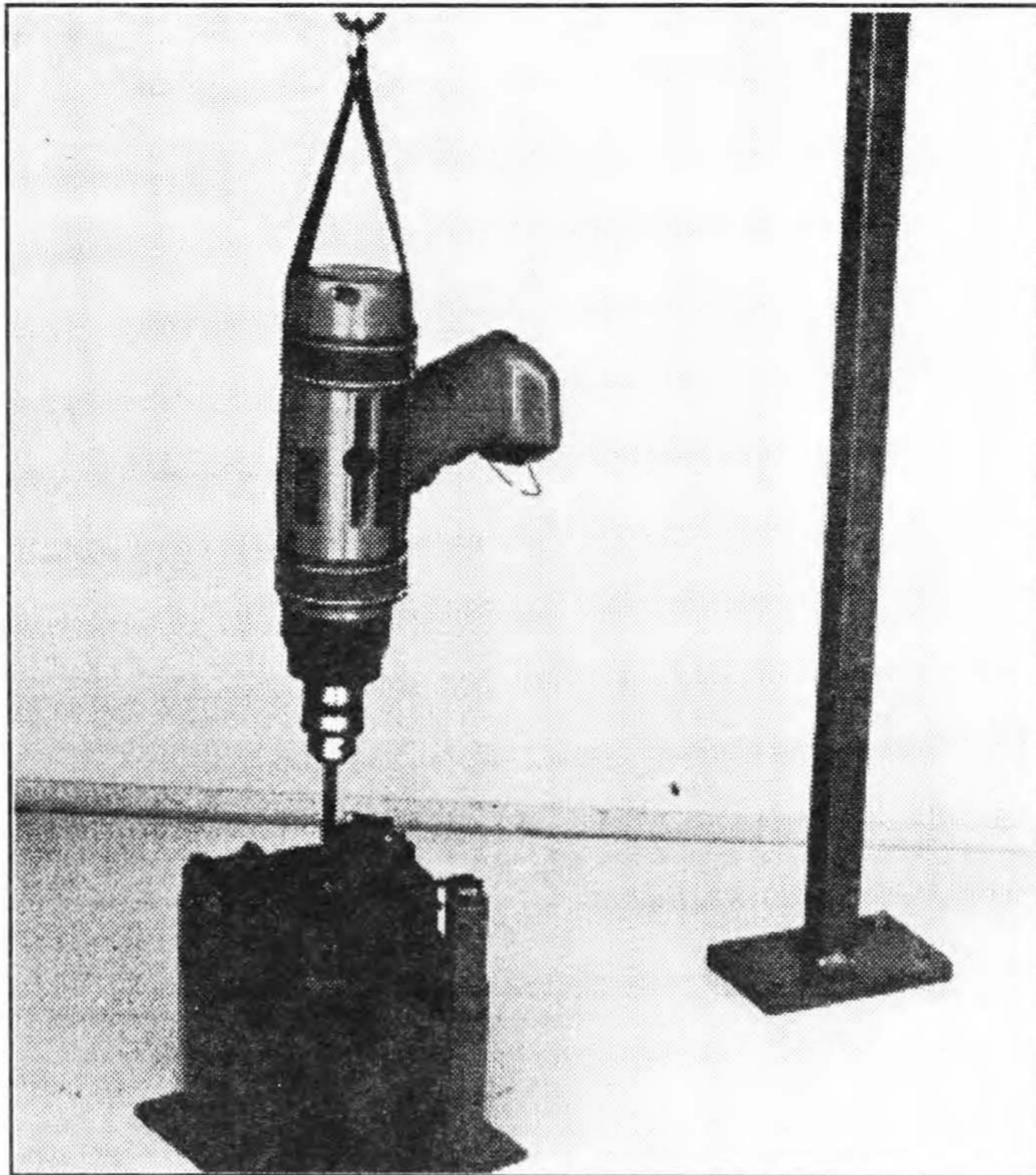
No. 505 AND 506 NEW DESIGN DELCO STARTER ASSEMBLY STATION SPEED UP DELCO STARTER ASSEMBLY

HOLDS 6 DELCO STARTER DRIVE HOUSINGS AND ARMATURES IN AN UPRIGHT POSITION FOR FIELD HOUSING INSTALLATION. SUPPORTS THE LONG NOSE SO THE HOUSING DOES NOT COME IN CONTACT WITH WORK BENCH. LONG FEET ON EACH END OF STATION HOLDS IT FIRMLY. STATION DOES NOT HAVE TO BE FASTENED DOWN. PORTABLE IF WORK SPACE IS NEEDED. SIX MOUNTS FOR HOLDING CONES WHEN NOT IN USE.



507 PRODUCTION BRUSH INSTALLATION FIXTURE FOR 10 MT. FIELD CASES (INSTALLS BRUSHES FAST & EASY TO OPERATE)

- * COMPLETE KIT CONSIST OF 507, 507-2 AND 507-3, HITACHI CORDLESS CLUTHC DRILL AND EXTRA BATTERY.
- * FAST AND EASY.
- * HITACHI CORDLESS DRILL AND EXTRA BATTERY. MARKET PRICE AT TIME OF PURCHASE HITACHI CORDLESS CLUTCH DRILL.

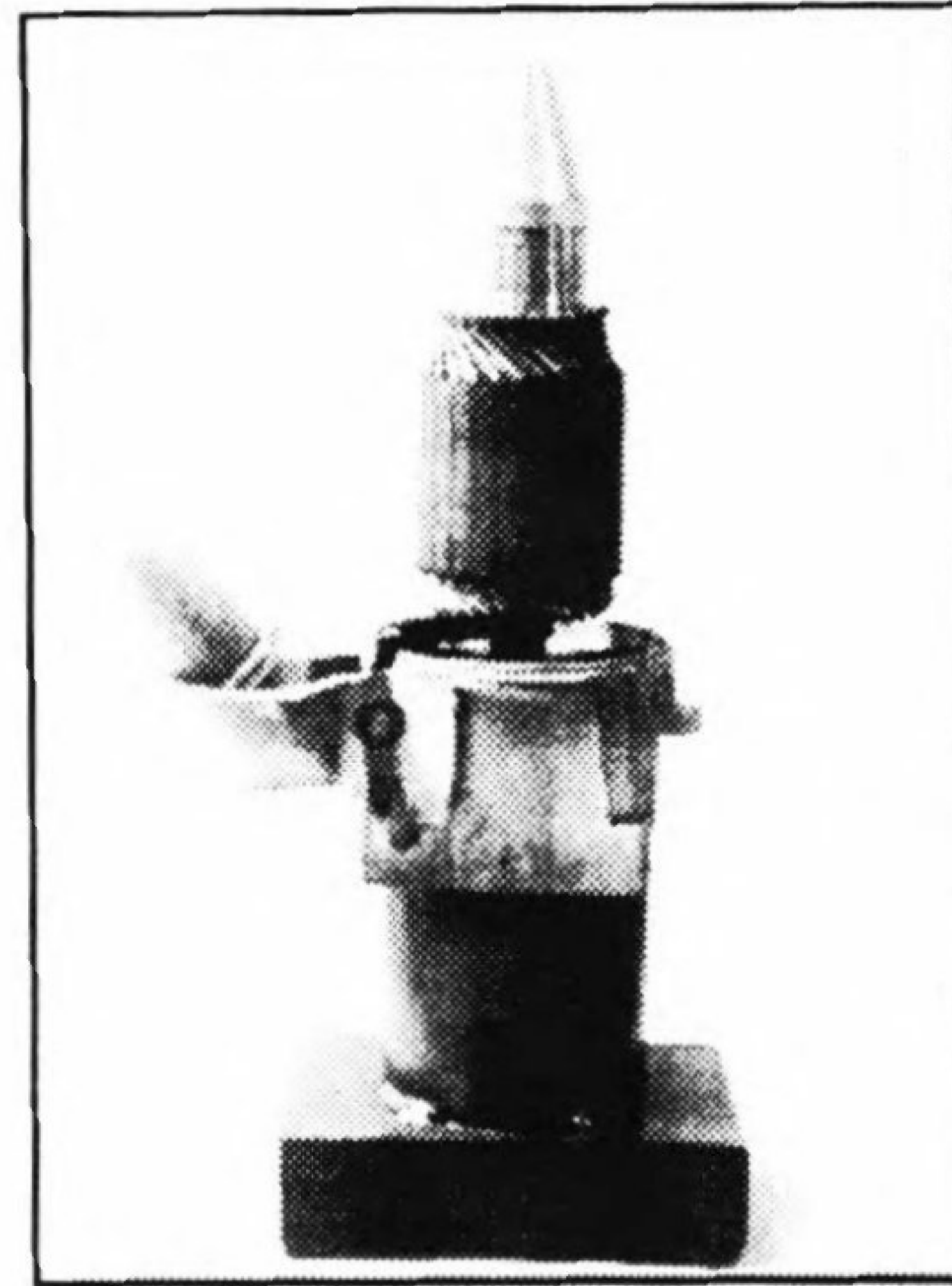




No. 510 DELCO BRUSH SPREADER CONE

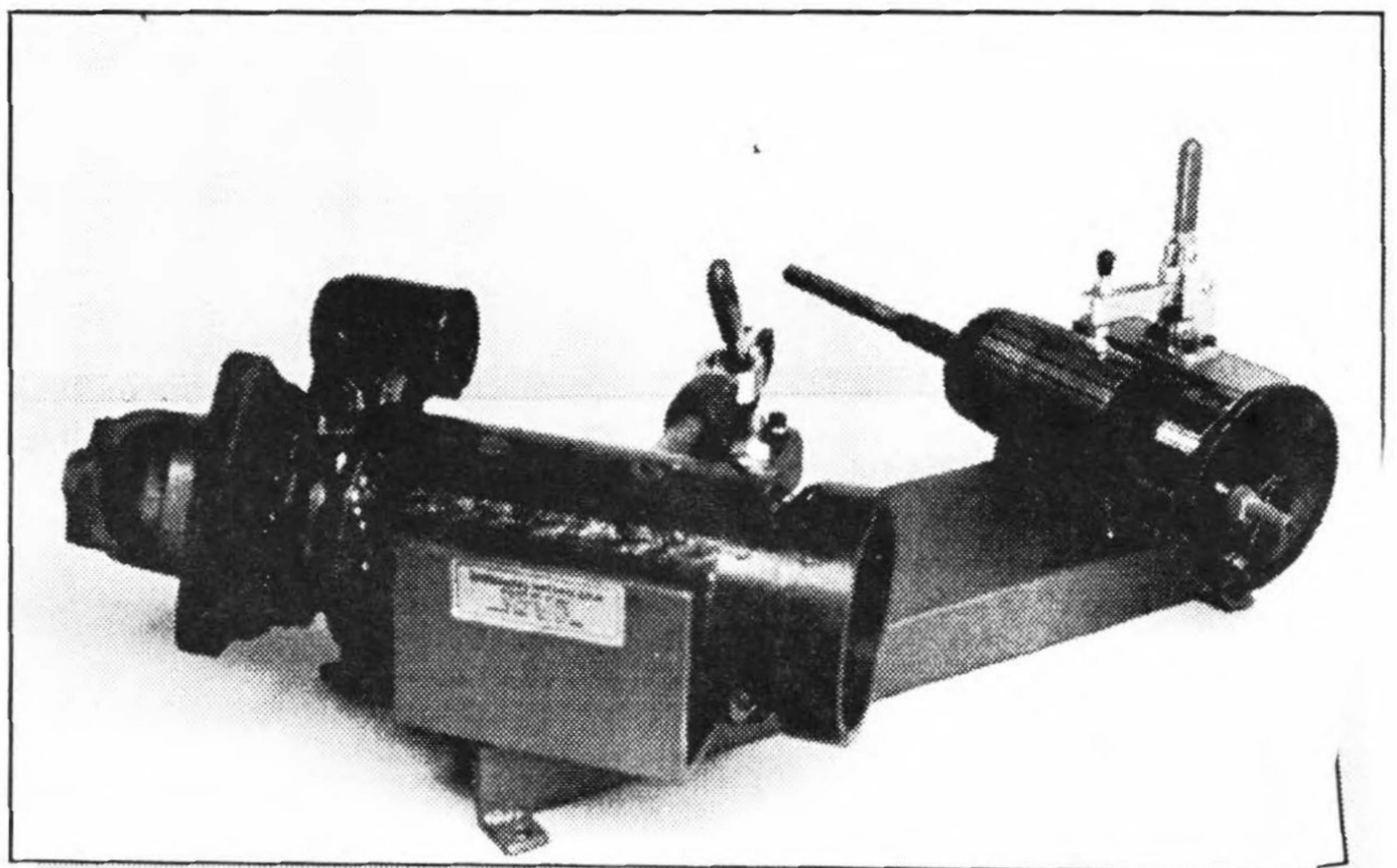
FAST - FAST SPACE AGE ALUMINIUM

FAST AND SIMPLE FIELD HOUSING
INSTALLATION.
ELIMINATES BROKEN BRUSH HOLDERS.
ELIMINATES COCKED BRUSHES.
ELIMINATES NICKES ON THE TOOL.
LIFE TIME USE.



No. 509 NEW MT 40 STARTER ASSEMBLY STATION **CUSTOM DESIGNED FOR THE HEAVY DUTY REBUILDER**

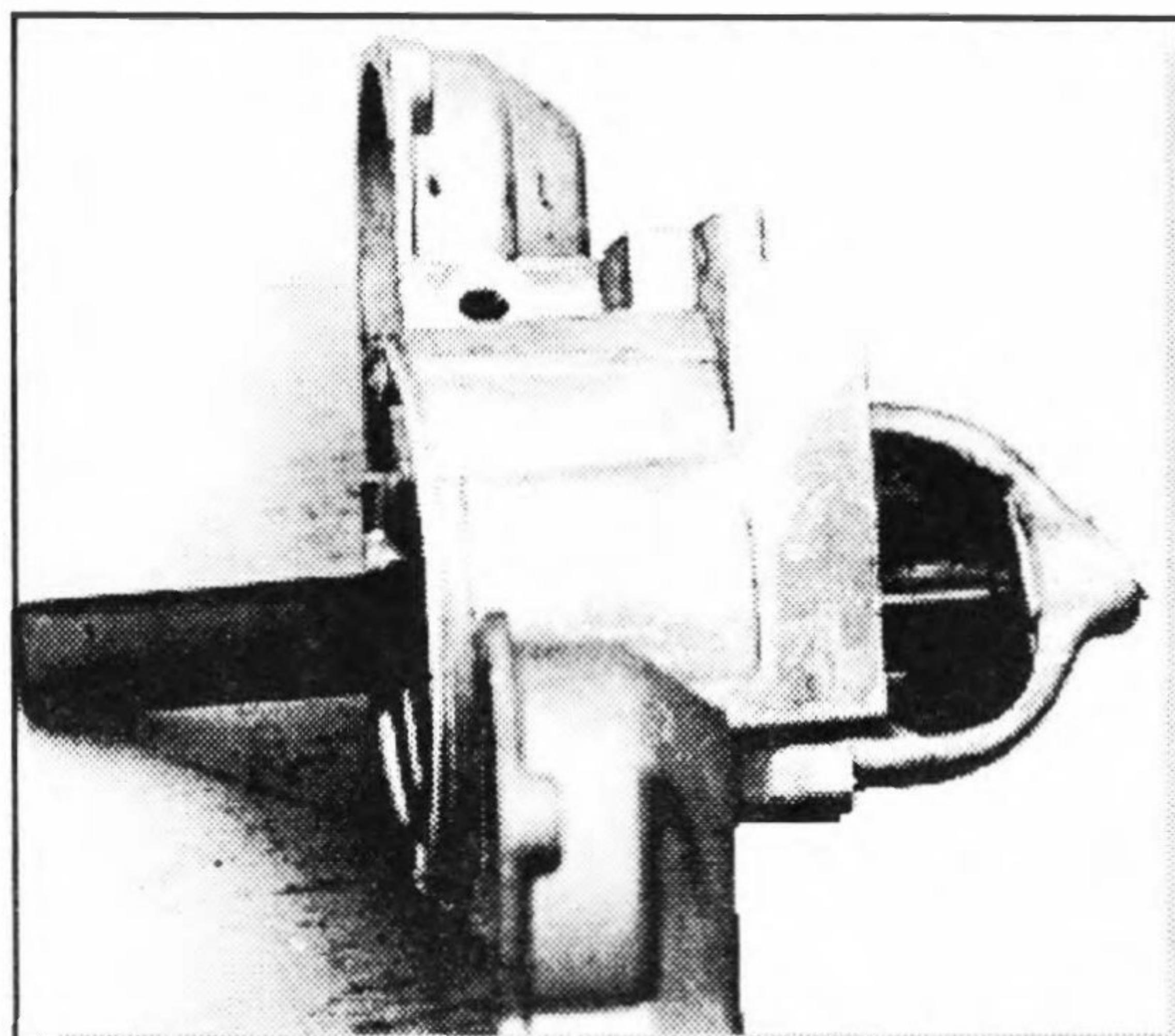
NO SET UP TIME.
COMES COMPLETELY ASSEMBLED,
STURDY
DOES NOT HAVE TO BE FASTENED
DOWN.
MINUTES AFTER UNCRATING CAN BE IN
PRODUCTION. ASSEMBLY STATION
HOLDS LARGE INDUSTRIAL STARTERS 30
MT TO 50 MT FOR ASSEMBLY AND/OR
TEAR DOWN. LOCKS STARTER ON
ROTATING PLATFORM THAT CAN BE
LOCKED IN ANY POSITION (360°).
OPPOSITE END OF STATION HOLDS THE
ARMATURE FOR REMOVAL AS WELL AS
INSTALLATION OF BRUSHES AND FITTING
BUSHINGS.



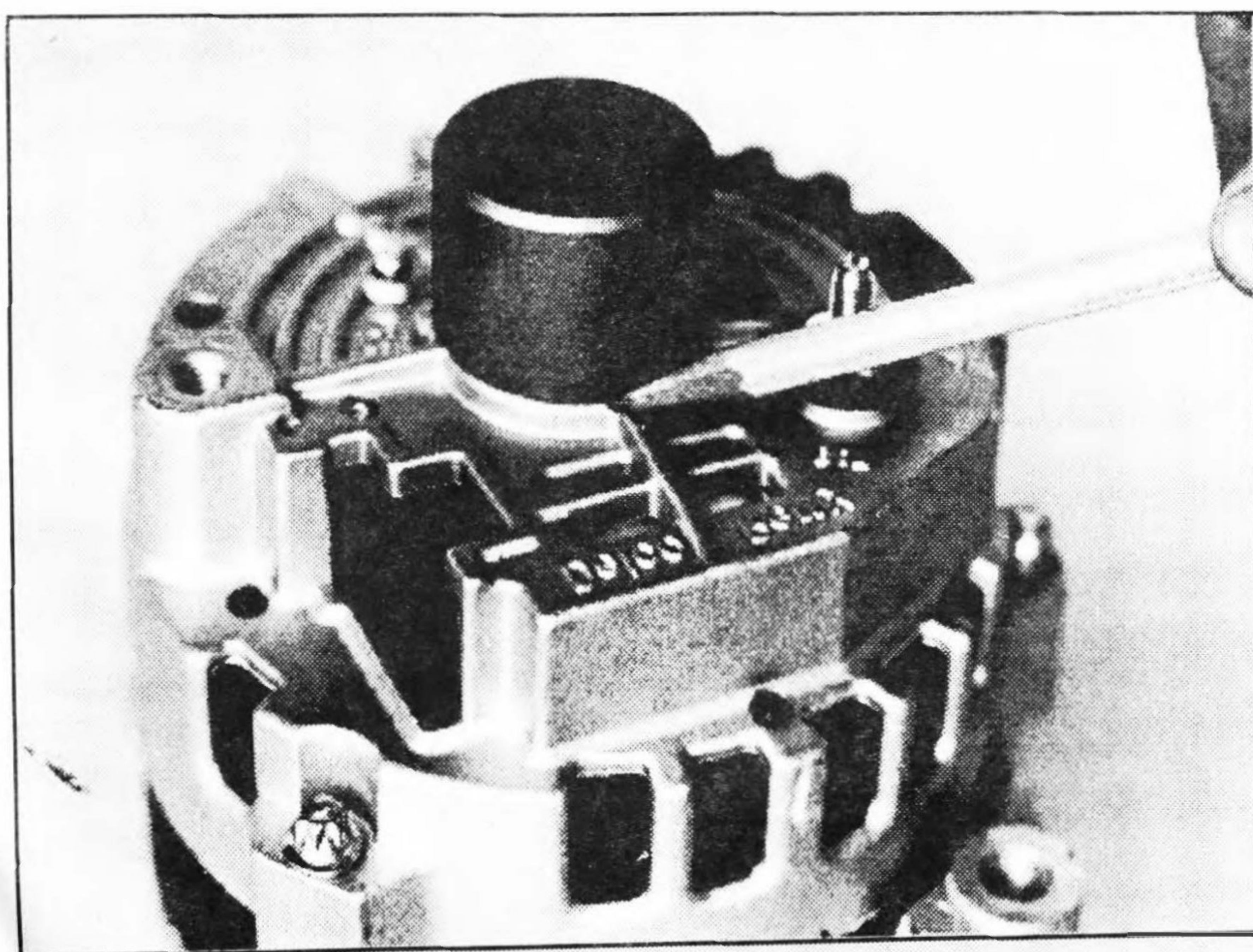
ELIMINATES LIFTING AND TURNING HEAVY INDUSTRIAL UNITS.
HELPS IN PREVENTING ACCIDENTS TO UNIT AND OPERATOR.
REDUCES OPERATOR FATIGUE. SPEEDS ASSEMBLY PROCEDURE.
CAN FURNISH A LIST OF SATISFIED CUSTOMERS ON REQUEST.

No. 514

DELCO CLOSED NOSE BUSHING INSTALLATION TOOL.
INSTALL BUSHING FROM INSIDE DRIVE HOUSING.
BUSHING DRIVER IS LONG AND HEAT TREATED.

**515 CS SERIES BEARING SPACER TOOL**

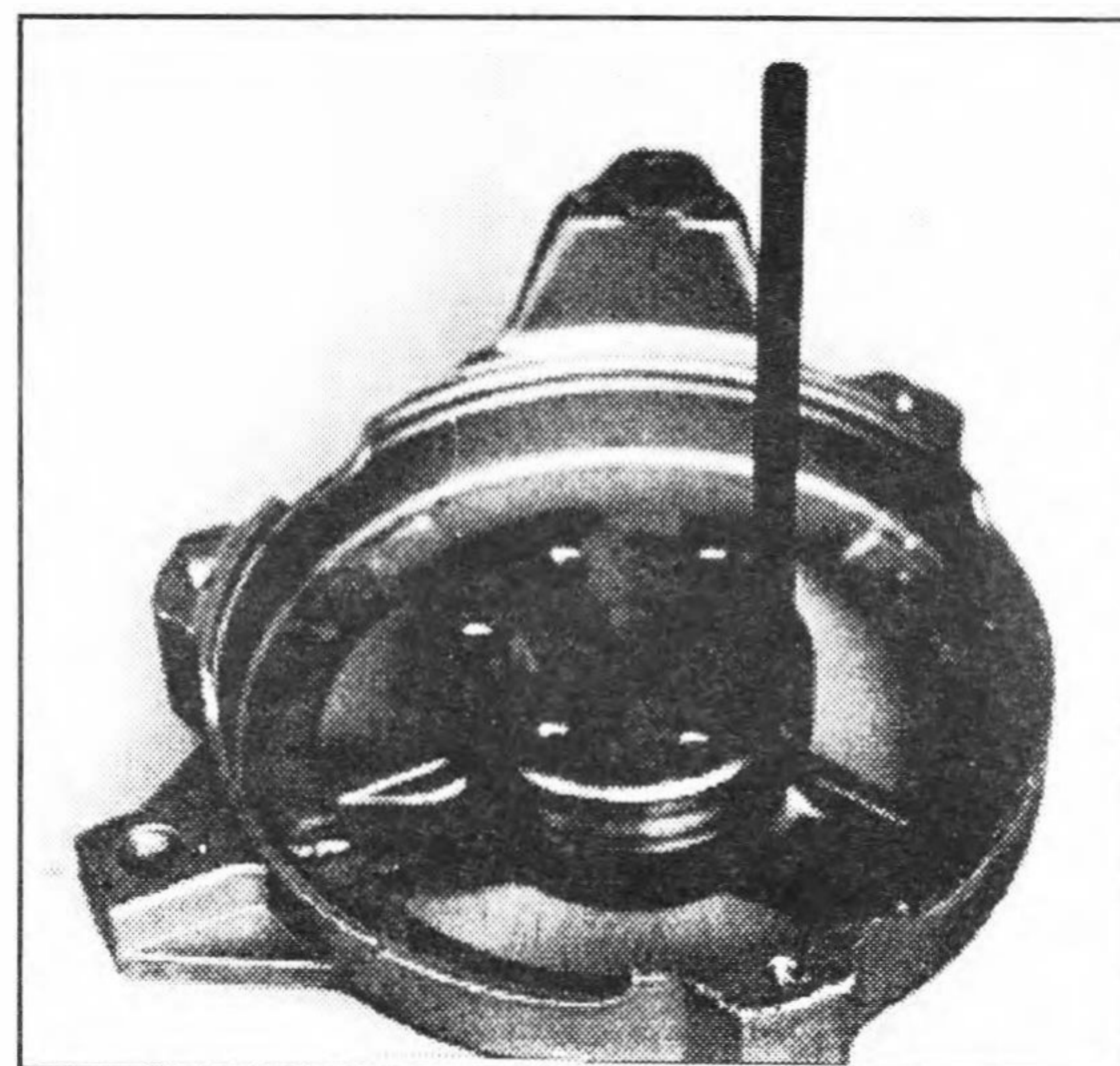
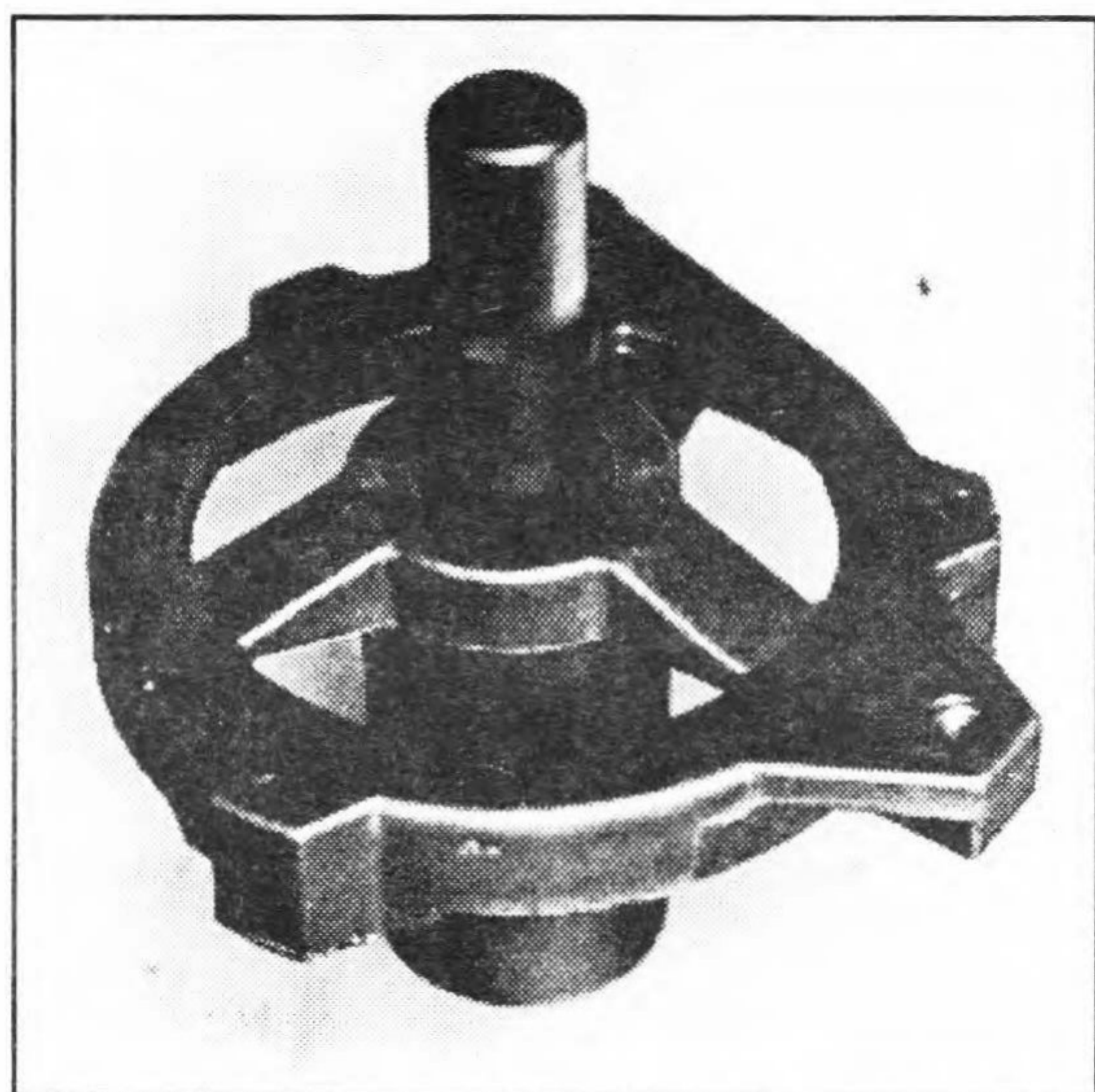
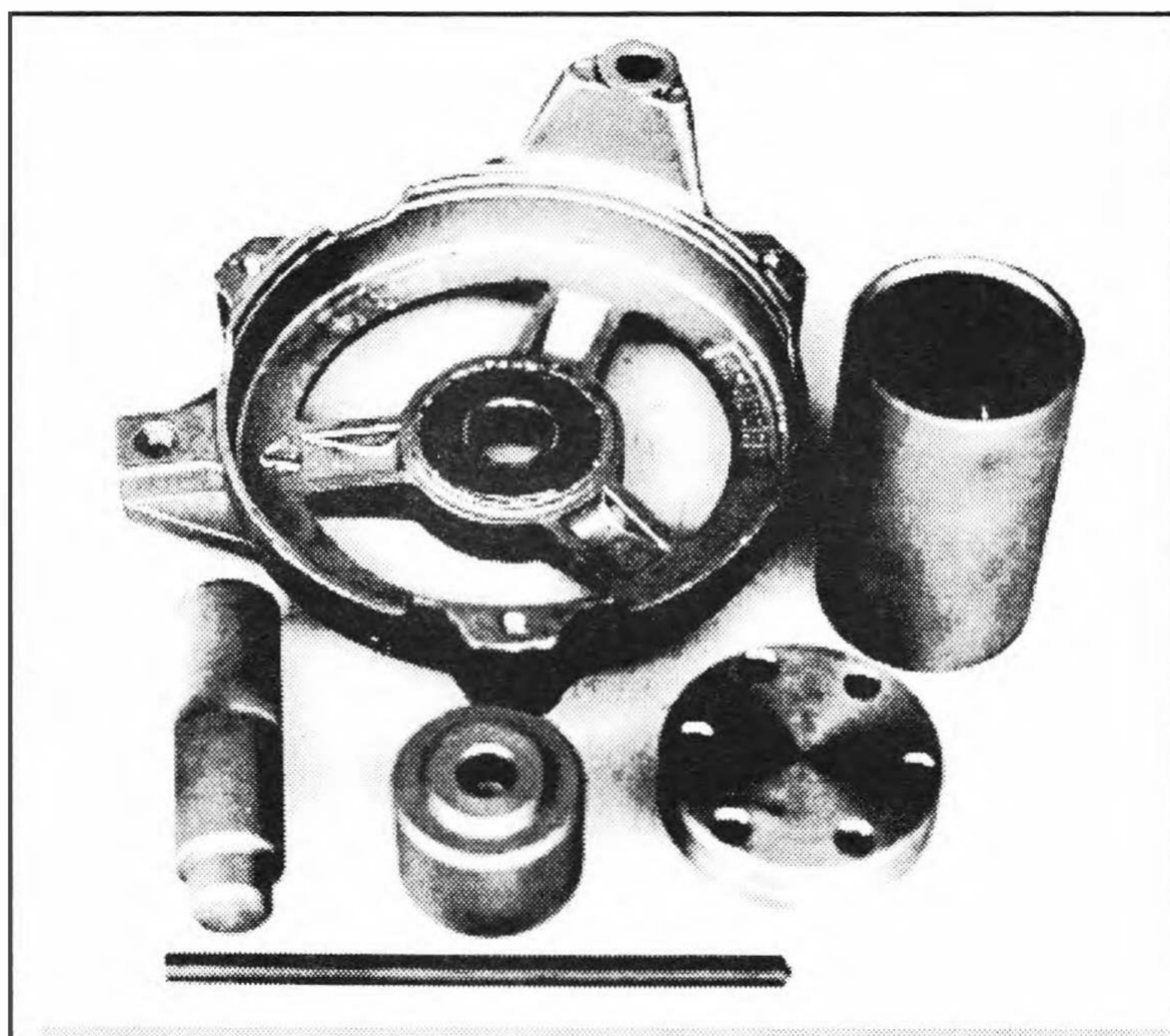
- * TOOL POSITIONS BEARING IN CENTER OF TOLERANCE RING.
- * AFTER ALTERNATOR IS ASSEMBLED, POSITION ALTERNATOR ON PULLEY.
SET SPACER TOOL ON REAR BEARING AND PRESS DOWN ON TOOL.
HEAT TREATED FOR A LONG DEPENDABLE LIFE OF THIS TOOL.



519 DELCO SERIES ALT. BEARING REMOVAL & INSTALLER KIT

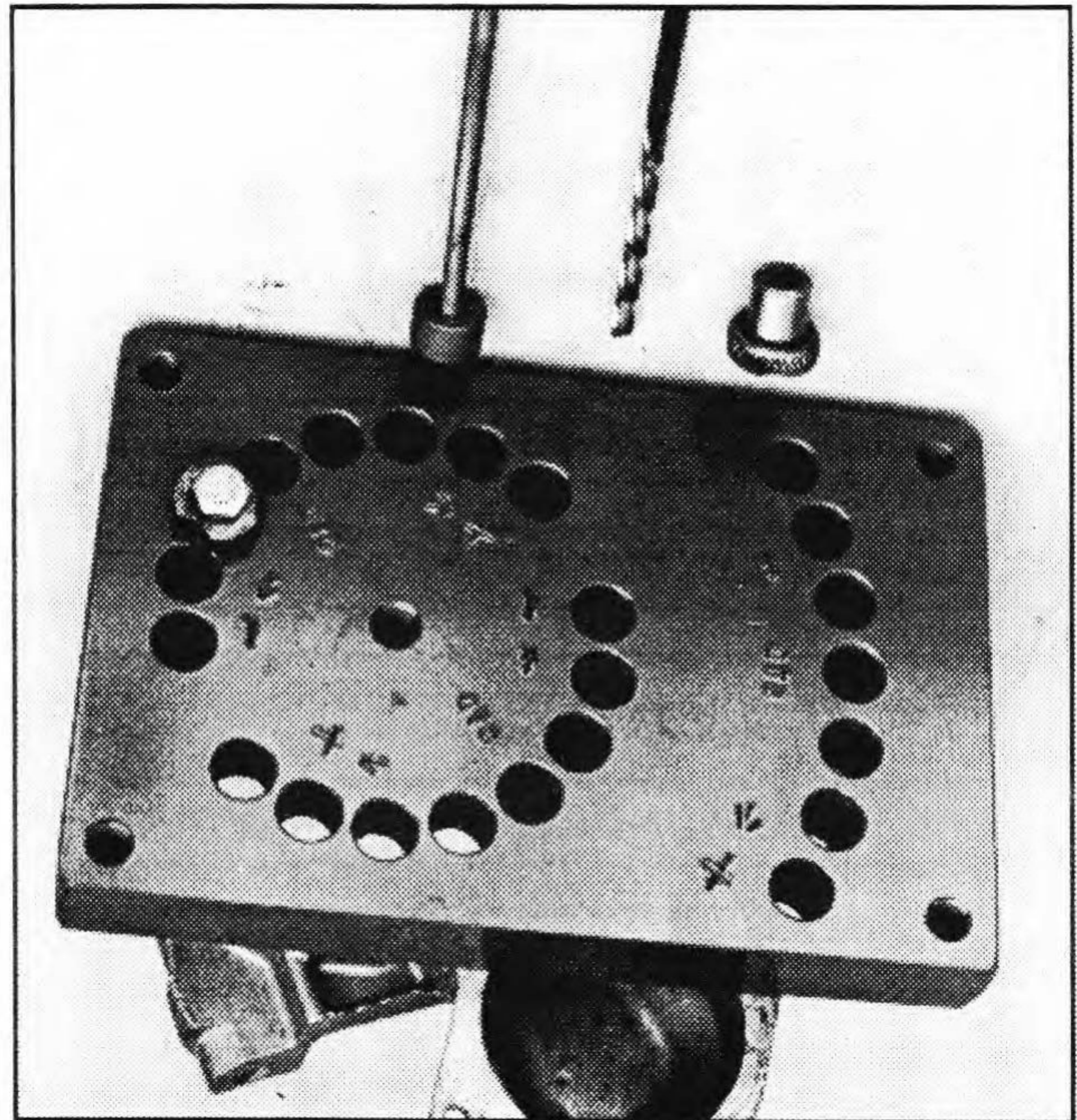
- * FAST & SIMPLE OPERATION.
- * REMOVE & INSTALLS BEARING.
- * SUPPORTING HOUSING ON BEARING BOSS.
- * BEARING INSTALLATION TOOL HAS TWO DIAMETERS, ONE FOR PUNCH STAKING BEARING, WHEN BEARING IS TIGHT IN HOUSING. (SMALL DIAMETER HOLE CIRCLE). LARGE CIRCLE FOR CENTER DRILLING & TAPING TO 8X32 THREAD (DRILL NO. 29).
- * NO BROKEN OR WRAPPED DR. HOUSING. (INCLUDES 515)

THIS KIT IS HEAT TREATED FOR DEPENDABLE USE.



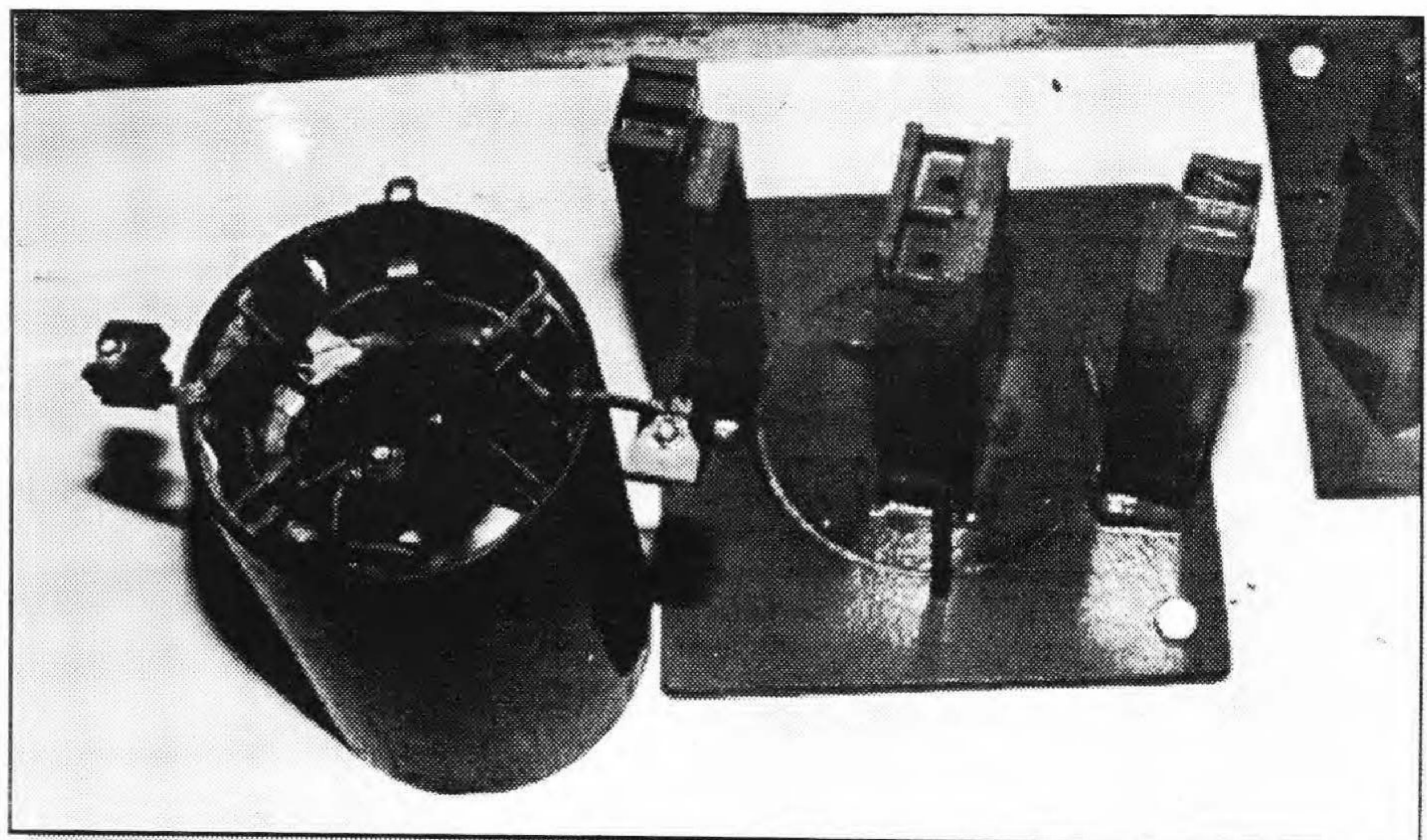
520 BROKEN THROUGH BOLT DRILLING FIXTURE FOR DELCO 10 MT. STARTER DRIVE HOUSING INCLUDING SOLENOID MOUNTING BOLTS

- * EASY TO USE.
- * FAST AND ACCURATE.
- * LARGE RANGE OF THROUGH BOLT SPACING FOR MOST ALL DELCO DRIVE HOUSINGS.
- * THIS FIXTURE CAN SALVAGE MANY HOUSINGS.
- * THIS FIXTURE CAN SALVAGE MANY HOUSINGS SAVING MONEY.



521 5MT. BRUSH INSTALLATION FIXTURE

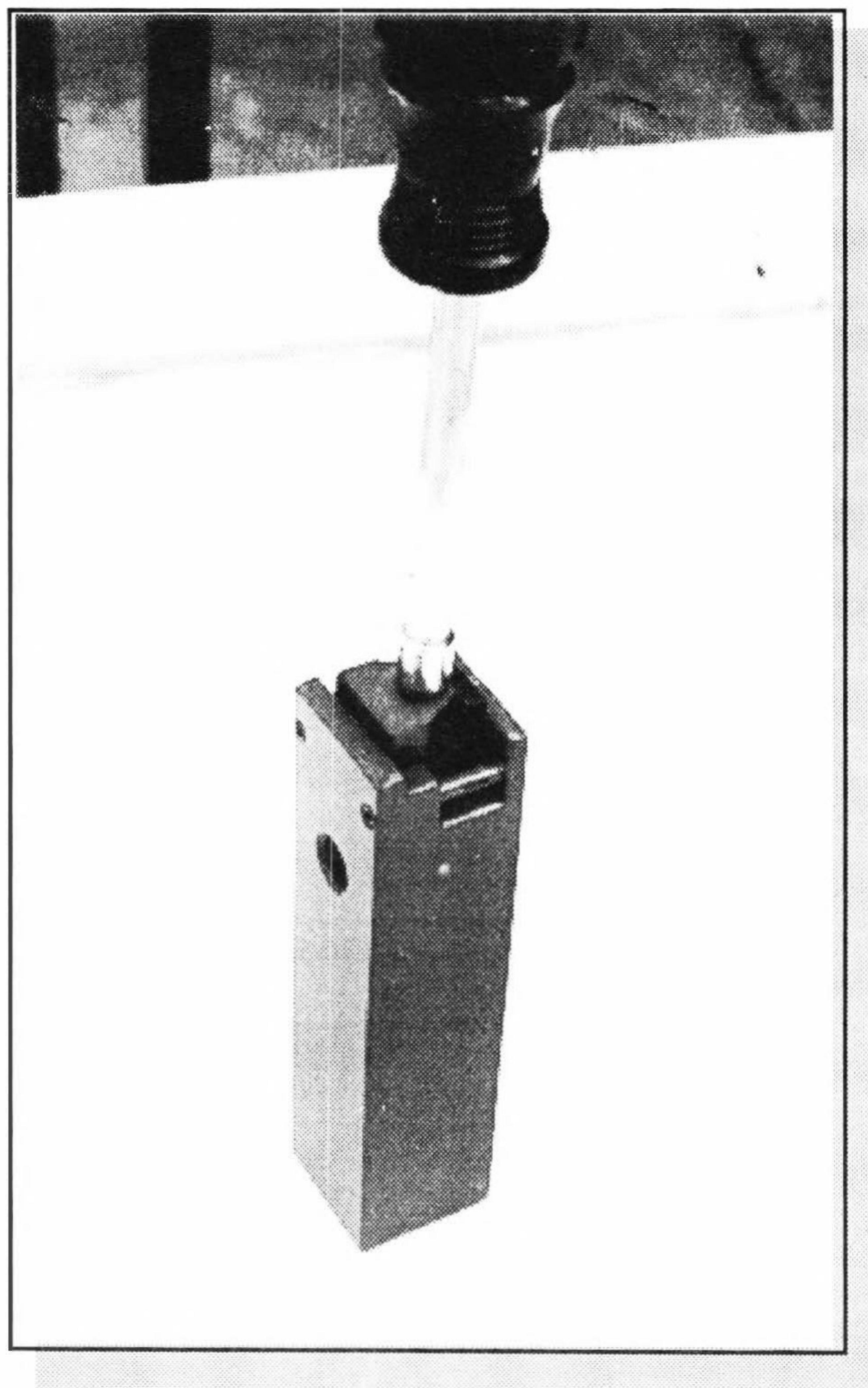
INSTALLS BRUSHES FAST AND STRAIGHT. EASY TO OPERATE
TO COMPLEMENT THE 521 YOU NEED
507-1, 507-3 & HITACHI MODEL DRC 10
CORDLESS DRILL WITH ADJUSTABLE CLUTCH.
SET CLUTCH AT ONE OR TWO.



522 5MT HAND HELD BRUSH LOADING TOOL

THE STRONGEST MOST DURABLE TOOL IN THE MARKET FOR 5MT BRUSH REMOVING AND REPLACING.

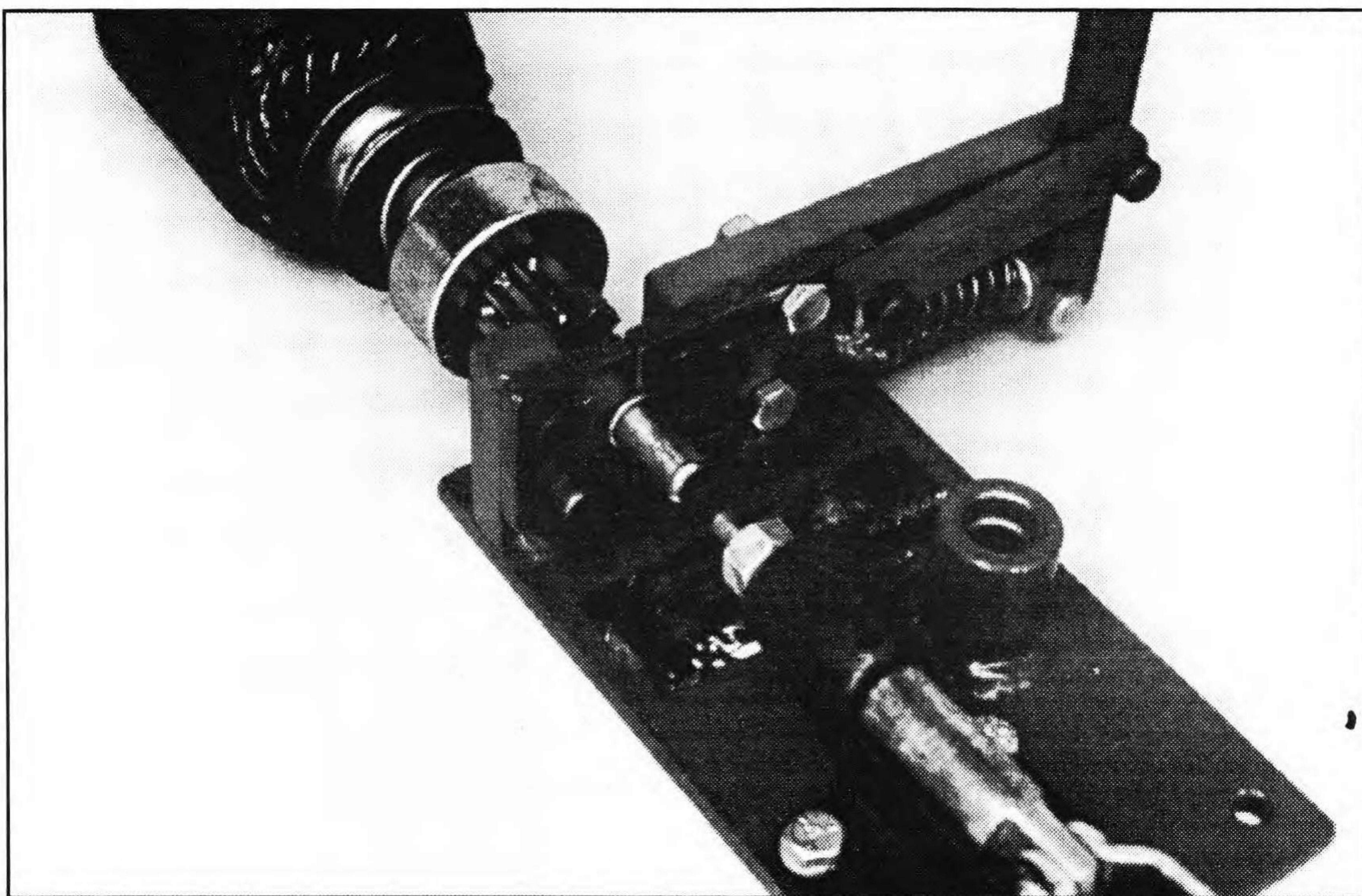
« TEAR THIS TOOL UP AND WE WILL GIVE YOU A NEW ONE »





525 DELCO SNAP RING REMOVER

- * REMOVES THE HASSLE OF SNAP RING REMOVAL.
- * REMOVES SNAP RINGS FAST.
- * FAST AND EASY TO OPERATE.
- * REMOVES 5 MT, 8 MT, 10 MT & NEW GEAR REDUCTION SNAP RINGS (PASSENGER CARS).
- * NO HASSLE, SAVES VALUABLE TIME.



No. 527

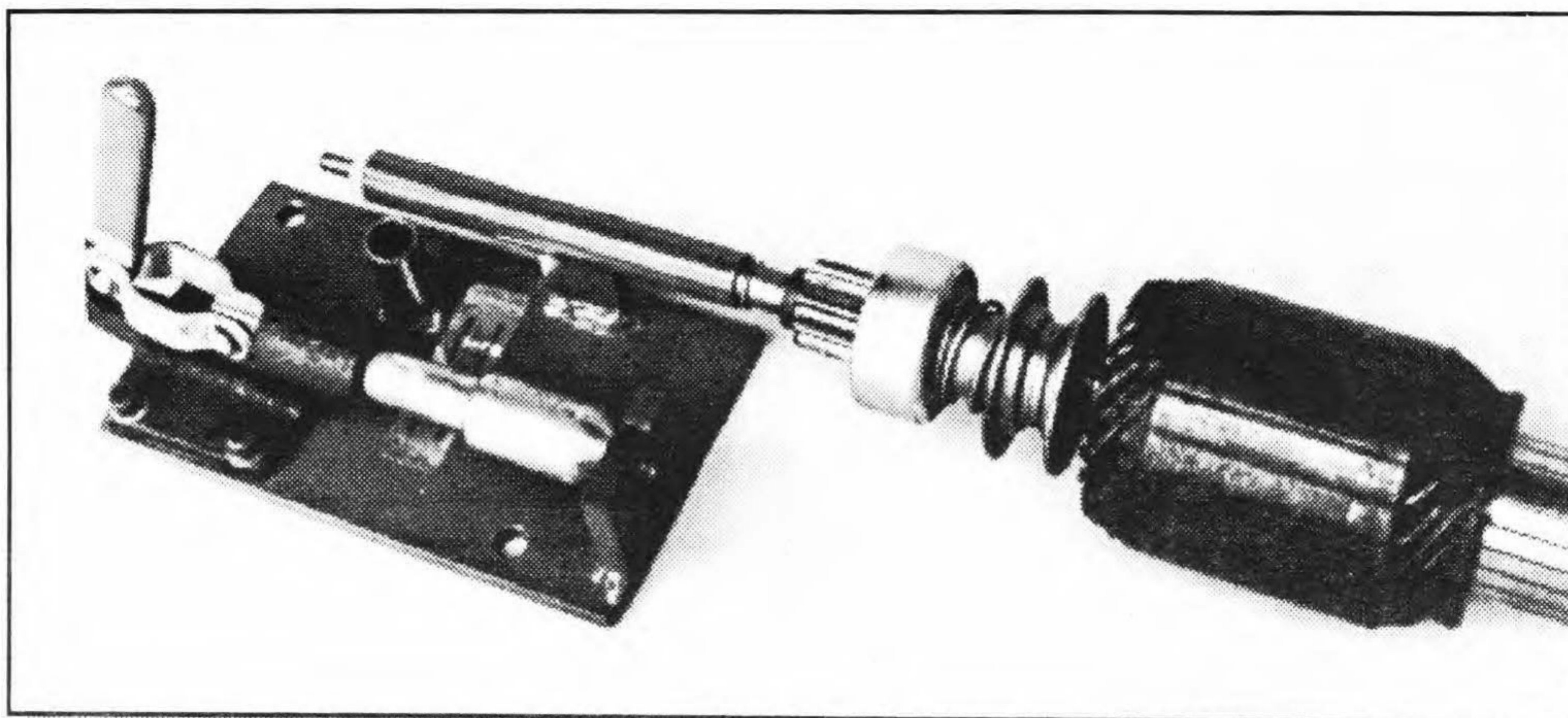
CUSTOM DESIGNED TO IMPROVE PRODUCTIVITY PATENT PENDING

COMPLETE PROCEDURE - 5 SECONDS MAXIMUM

COMES COMPLETELY ASSEMBLED-READY TO PERFORM.

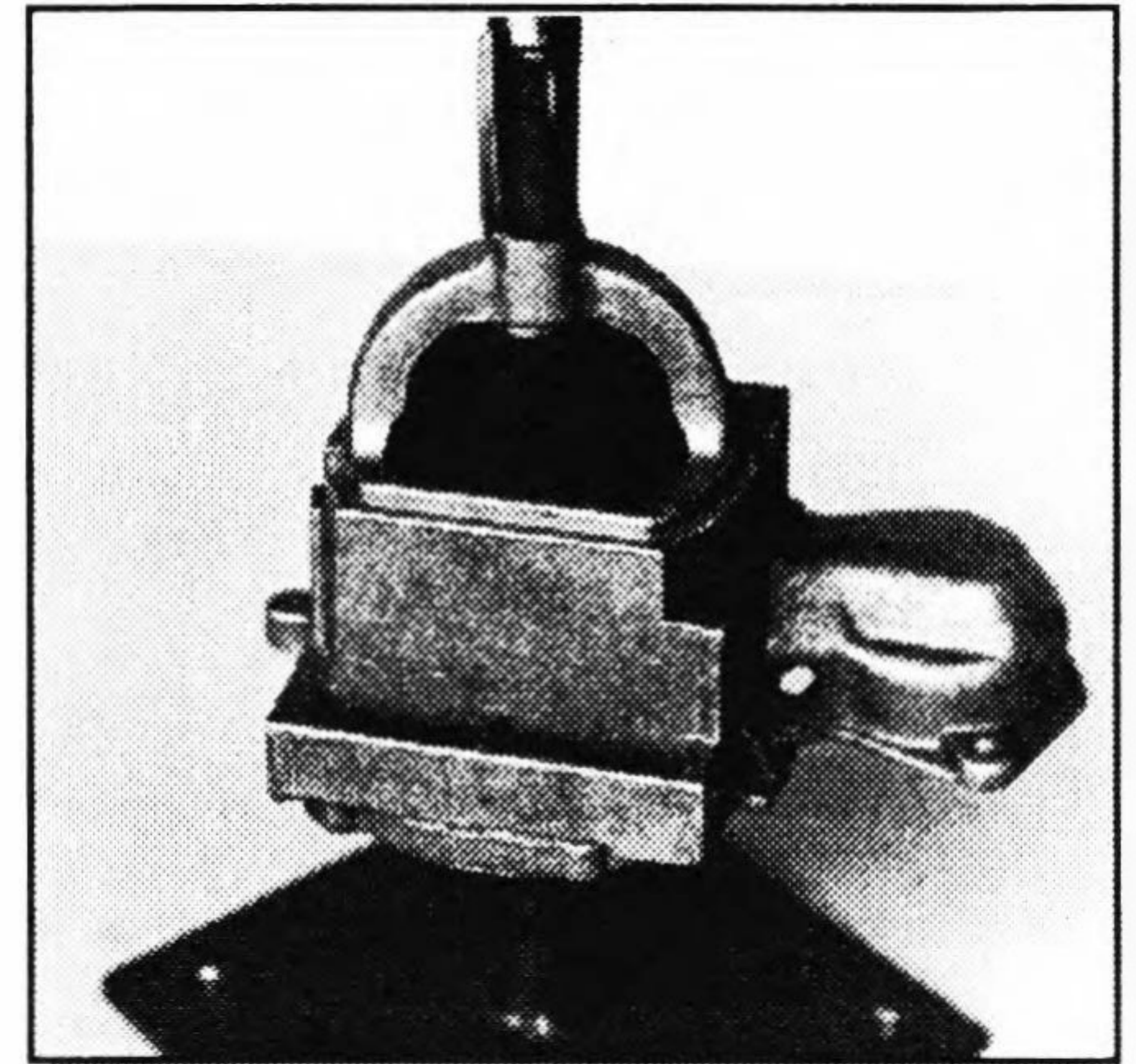
INSTALLS THE AGGRAVATING STARTER DRIVE LOCK RING IN GROOVE AND SEATS THE RING IN LOCK CUP.

**NEW - NEW
HOTTEST ITEM
DELCO SNAP RING
INSTALLATION TOOL**



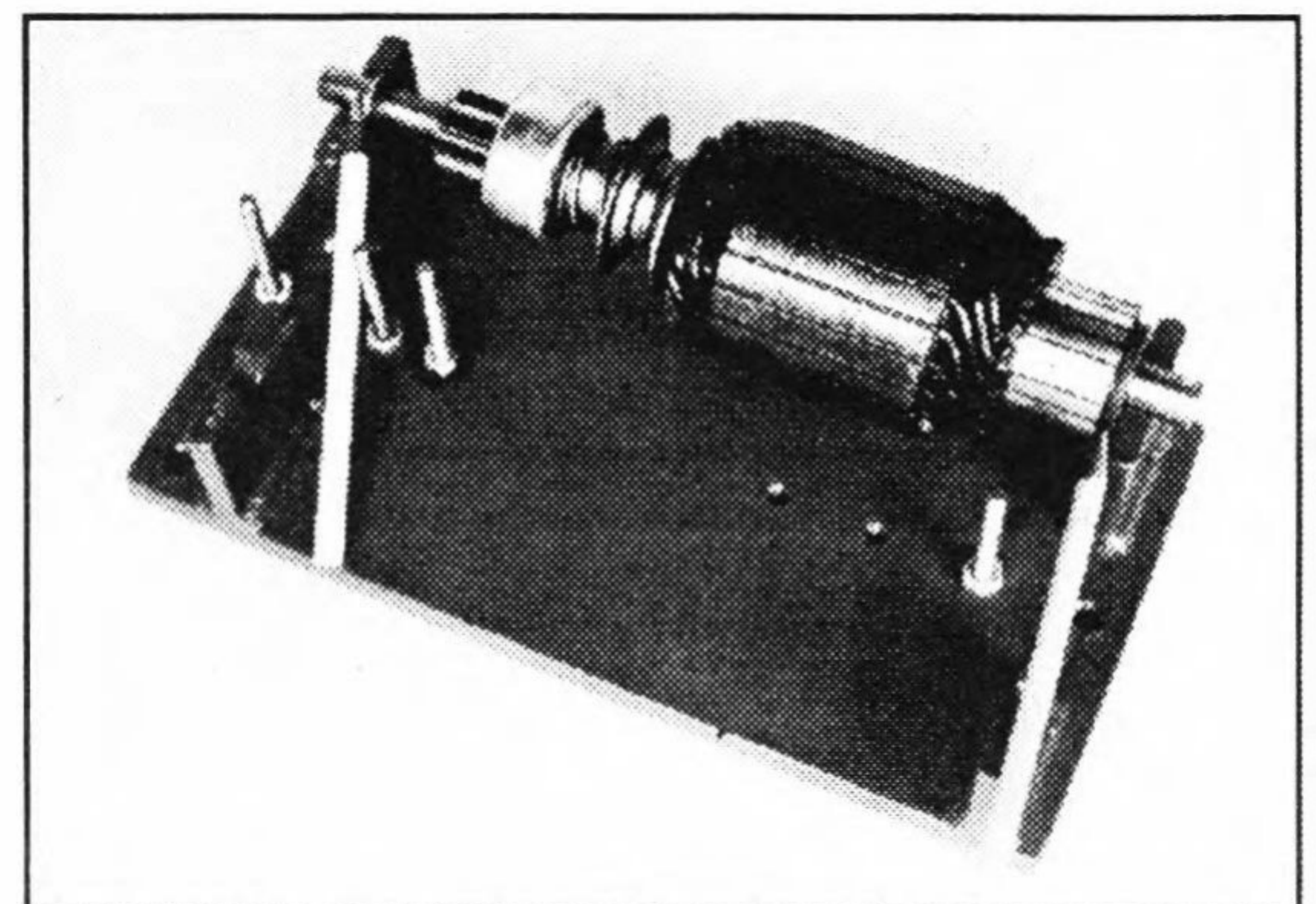
530 CLOSED NOSE CUT OFF FIXTURE AND CUTTER

- * CUTS OFF BLIND NOSE FOR BROKEN BUSHING REMOVAL.
- * FOR HOUSING OVERSIZE BORING OF BUSHING HOLE.



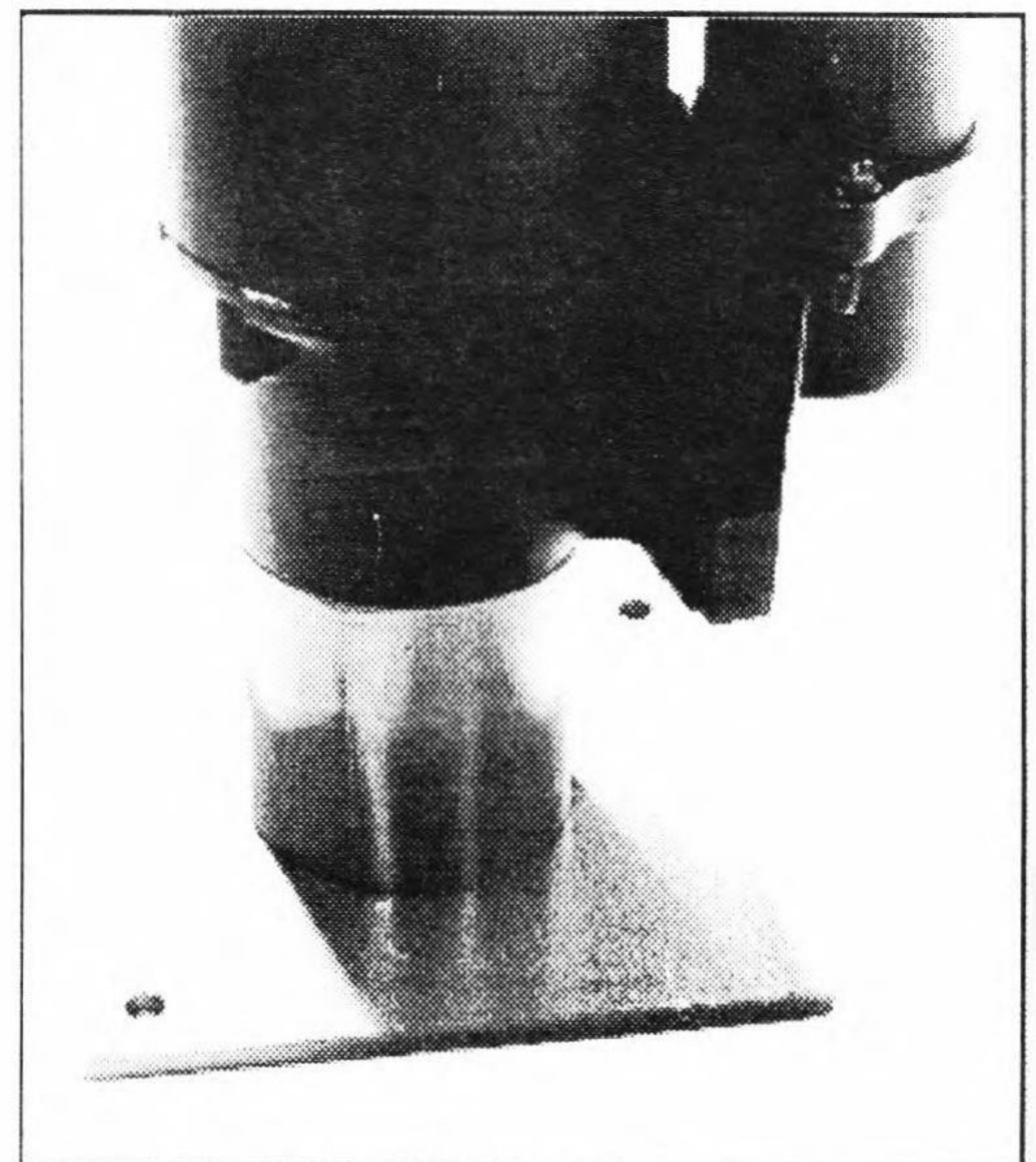
535 CORRECT ARMATURE LENGTH MEASURING GAUGE

- * SAVE TIME.
- * SHIM ARMATURE BEFORE ASSEMBLY.
- * BUILD A QUIETER, SMOOTHER & STRONGER OPERATING STARTER.
- * LESS STARTER DRIVE TO FLYWHEEL CLASH.
- * THIS TOOL ONLY COSTS PENNIES A DAY TO OWN.



TOOL 540

210 & 265 STARTER SUPPORT FOR ASSEMBLY & DISASSEMBLY OF THIS STARTER





TOOL 542 KIT

210-265 STARTER BRUSH RETAINERS & CONE ASSEMBLY FIXTURES, FOR FIELD CASE ASSEMBLY OVER ARMATURE.

A GOOD SOLUTION OF AN AGGRAVATING PROBLEM.

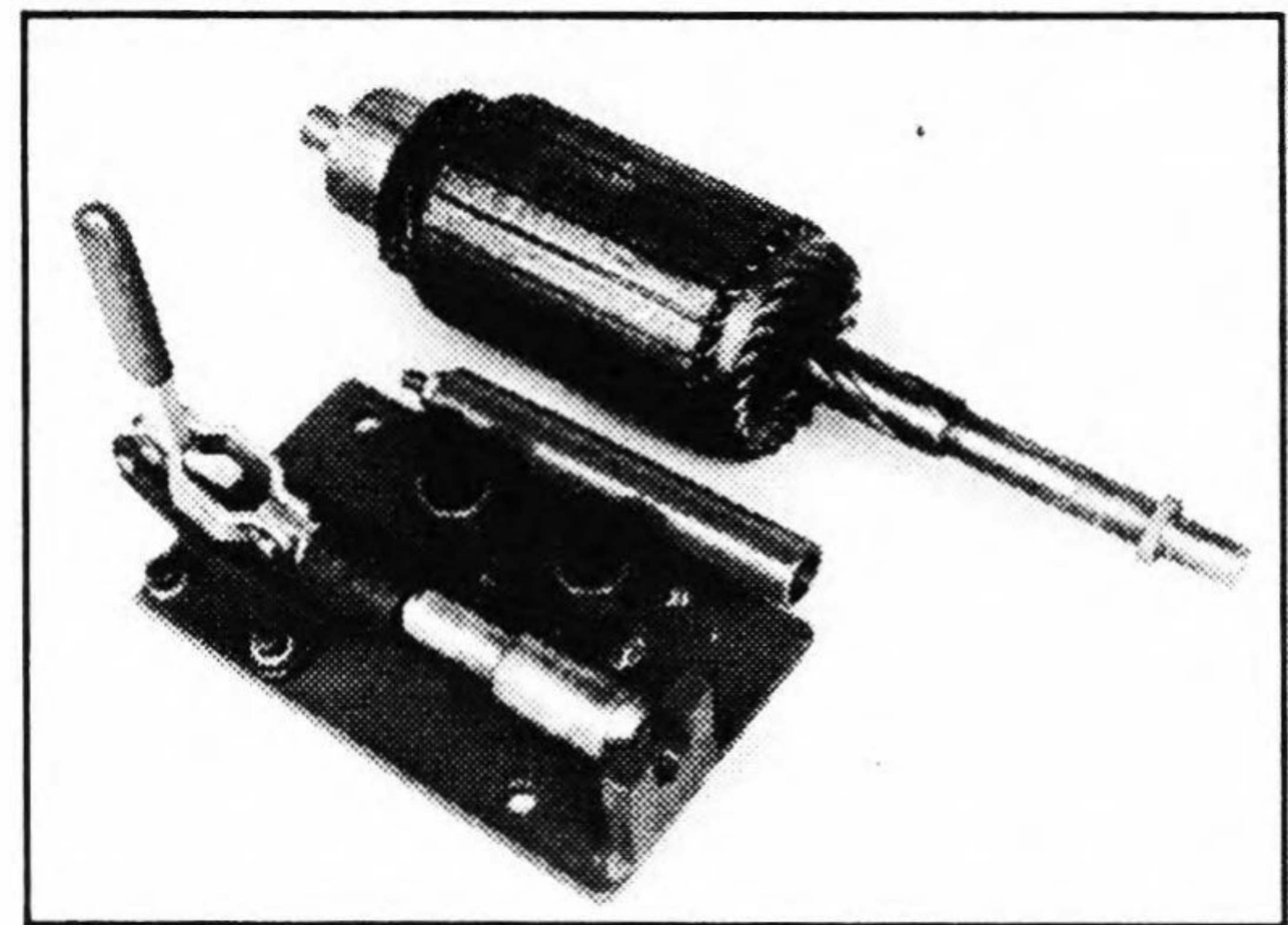


NO. 570 NEW - NEW 25MT AND 30 MT DELCO SNAP RING INSTALLATION TOOL

FAST - FAST - FAST

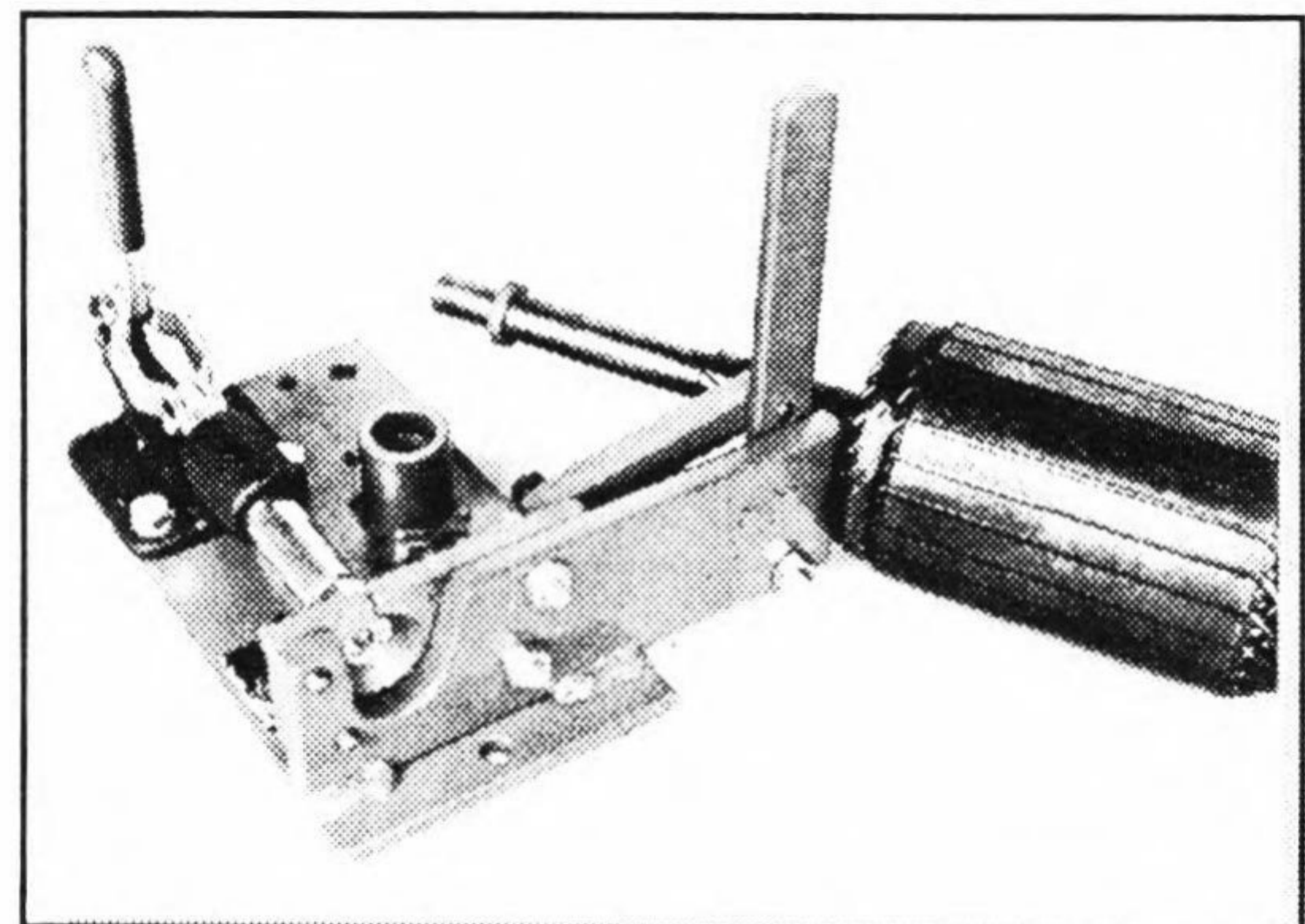
INSTALLS AGGRAVATING STARTER DRIVE LOCK RING IN GROOVE AND SEATS THE RING IN LOCK CUP.

COMPLETE OPERATION 5 SECONDS OR LESS



TOOL 575 10-25-30-35 MT DELCO INDUSTRIAL SNAP RING REMOVAL FIXTURE

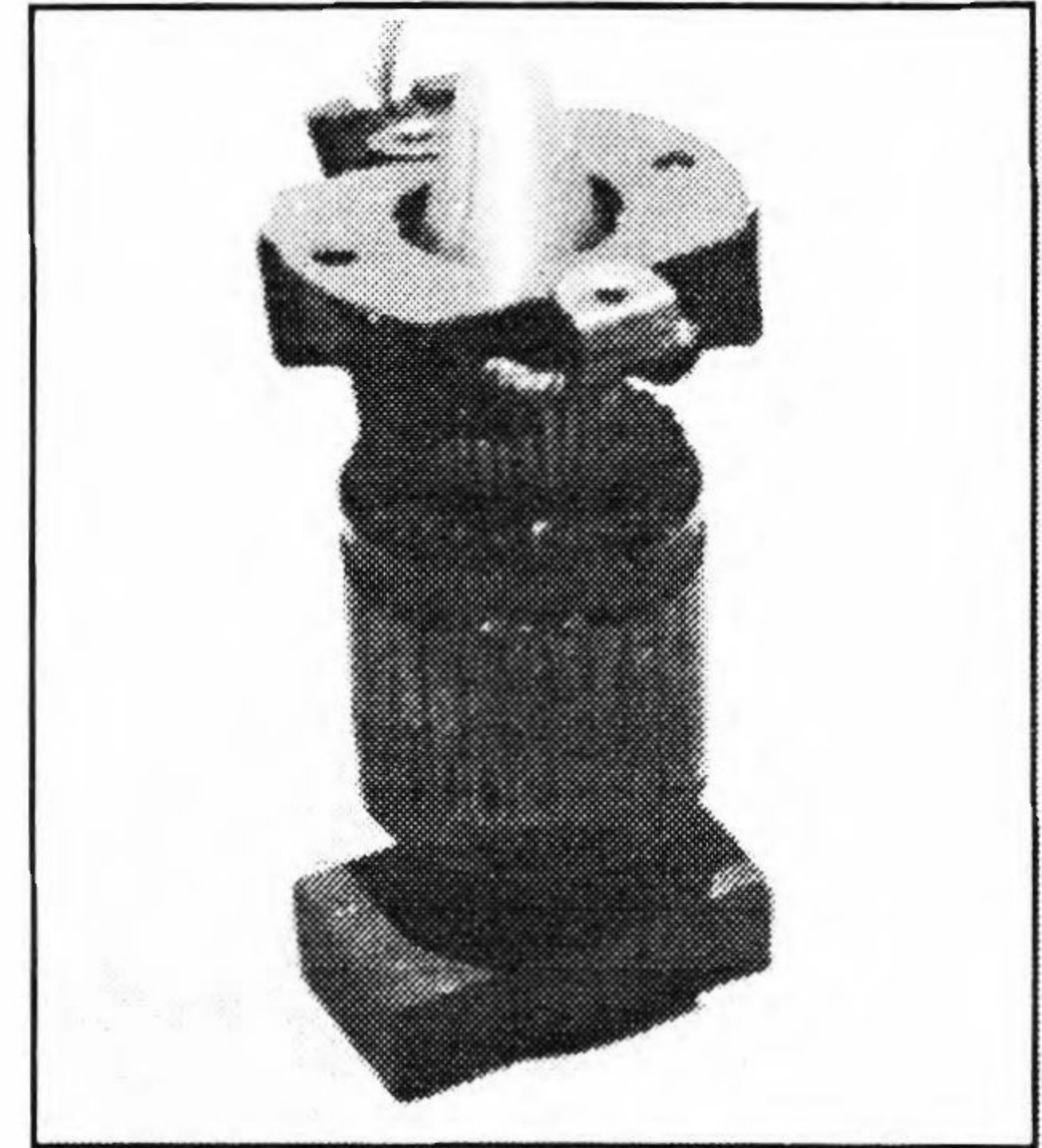
- * ELIMINATES THE HASSLE OF SNAP RING REMOVAL.
 - * FAST AND EASY SNAP RING REMOVAL.
 - * SAVING VALUABLE TIME AND MAKING YOU PROFIT.
- COMPLETE OPERATION 5 SECONDS OR LESS





TOOL 800 FORD PERMANENT MAGNET INSTALLATION CONE

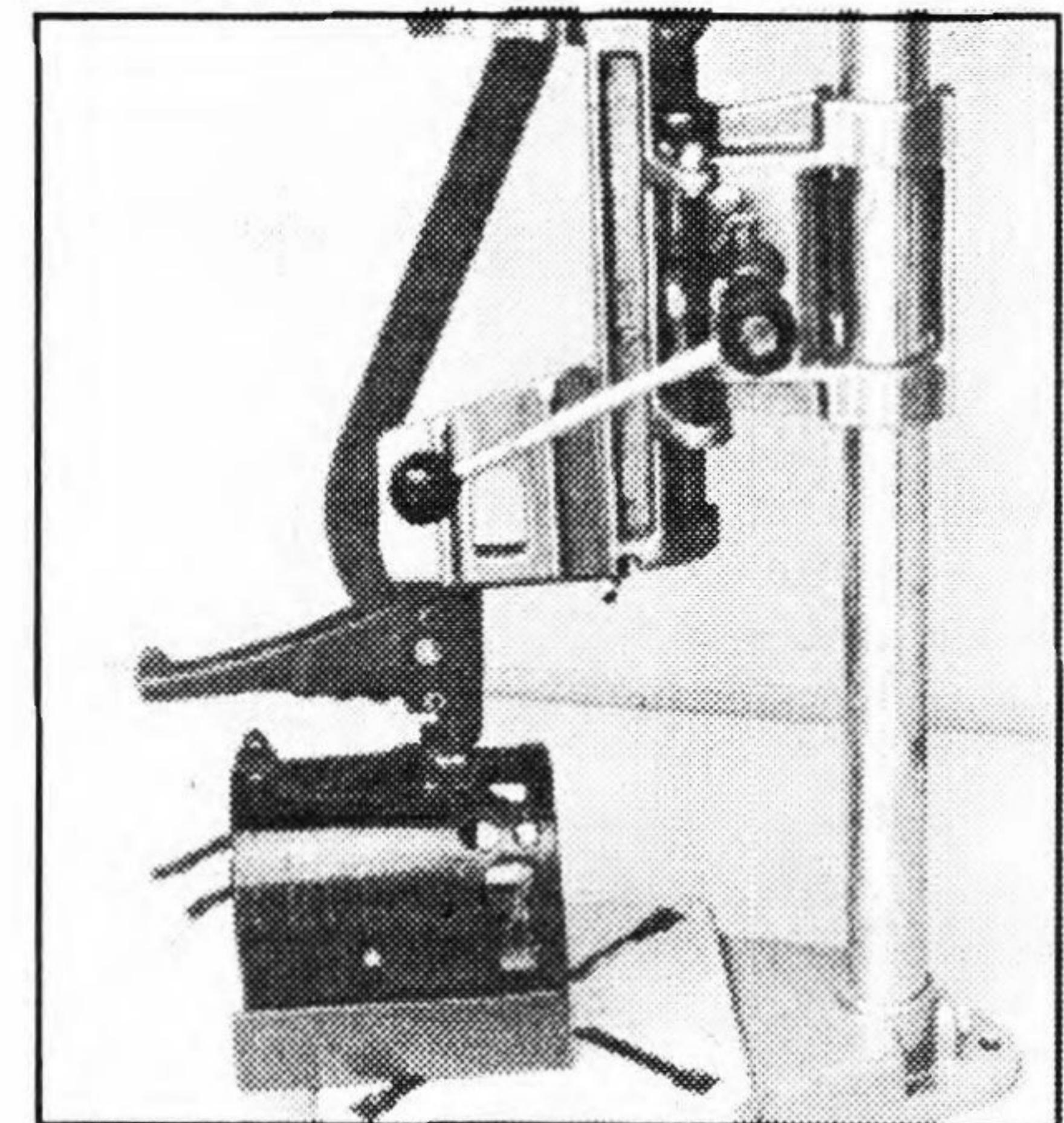
MAKES BRUSH HOLDER INSTALLATION EASY.



NO. 801 FORD STARTER CONTACT RIVET ASSEMBLY PRESS

**INSTALLS CONTACT ASSEMBLY FAST AND TIGHTLY TO
CASE WITH FIELD'S IN OR OUT IMPROVES QUALITY
IMPROVES PRODUCTION EASY TO USE NO SKILL
REQUIRED**

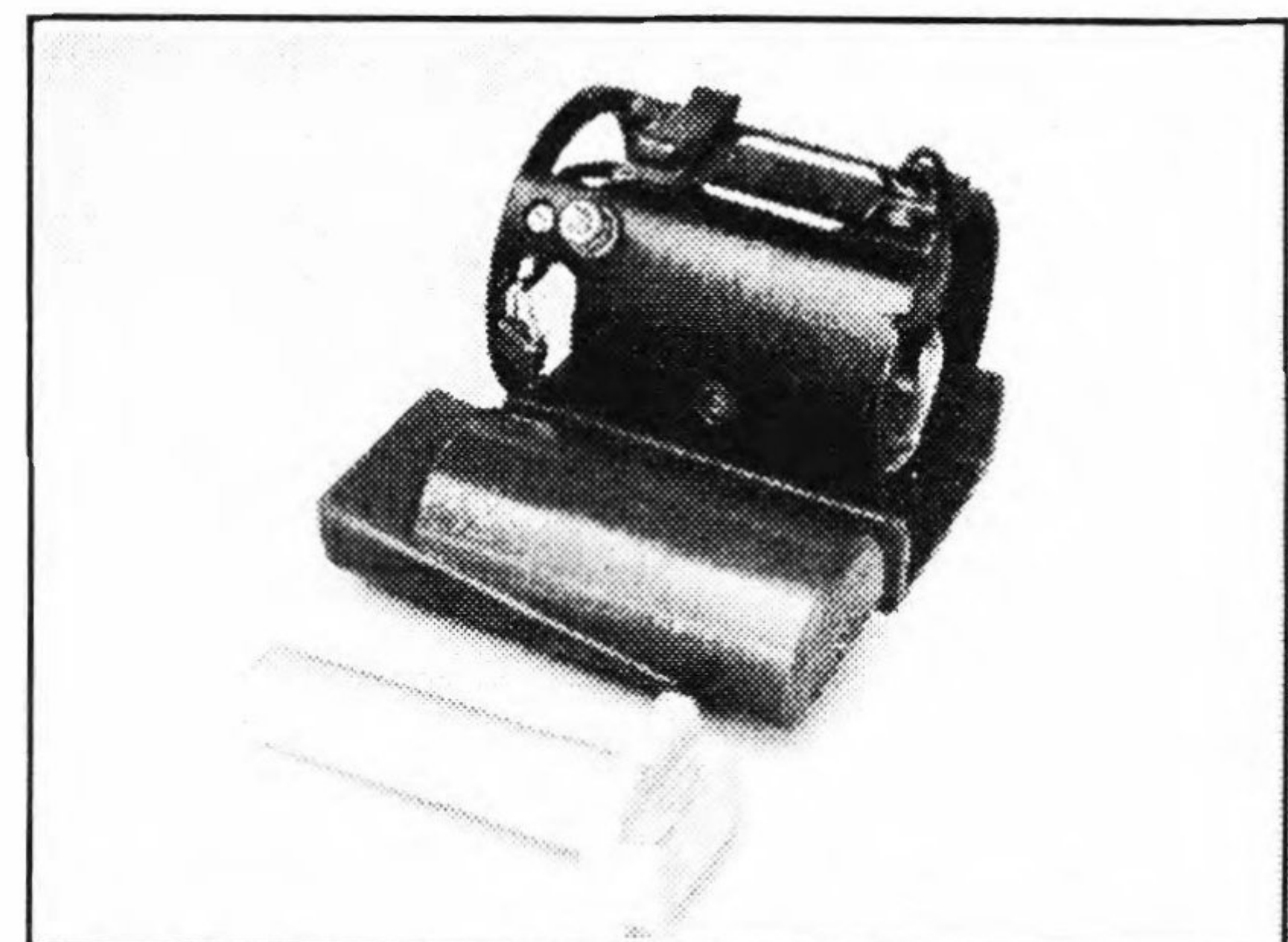
COMPLETELY ASSEMBLED - READY TO FASTEN DOWN
INSTALL POINT ASSEMBLY TIGHT TO FIELD CASE
SEATS THE RIVETS
ILLUSTRATED INSTRUCTIONS INCLUDED



802-4'' FORD STARTER ALUMINUM SLEEVE INSTALLATION TOOLING

!! THE FASTEST, SLICKEST, BEST RESULTS & CHEAPEST !!

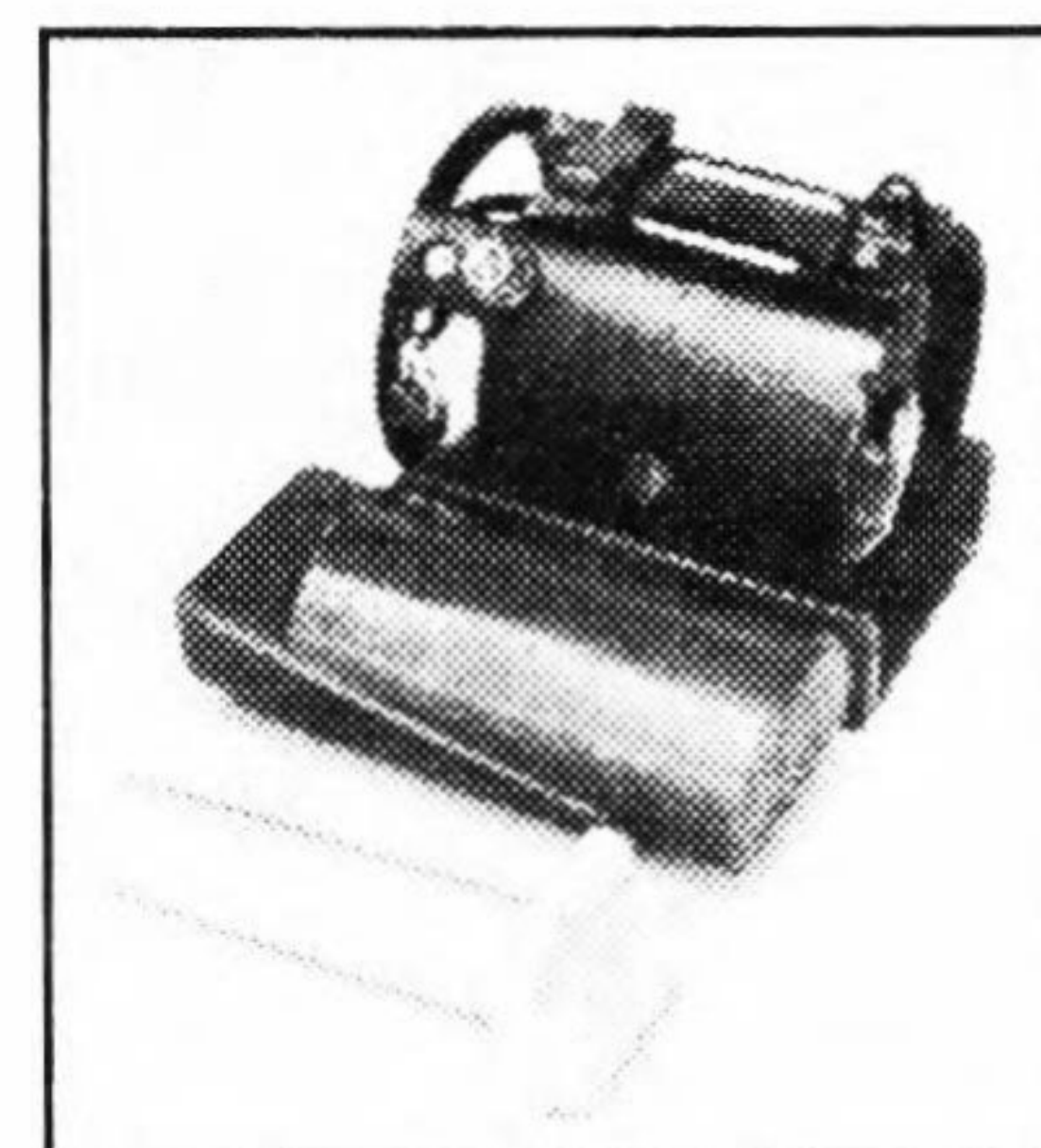
- * THIS TOOL KIT IS FAST AND EASY TO USE.
- * IT DOES AN EXCELLENT JOB.
- * NOTHING TO GET OUT OF ADJUSTMENT, WORKS EVERY TIME.





802-4 1/2" FORD STARTER ALUMINUM SLEEVE INSTALLATION TOOLING

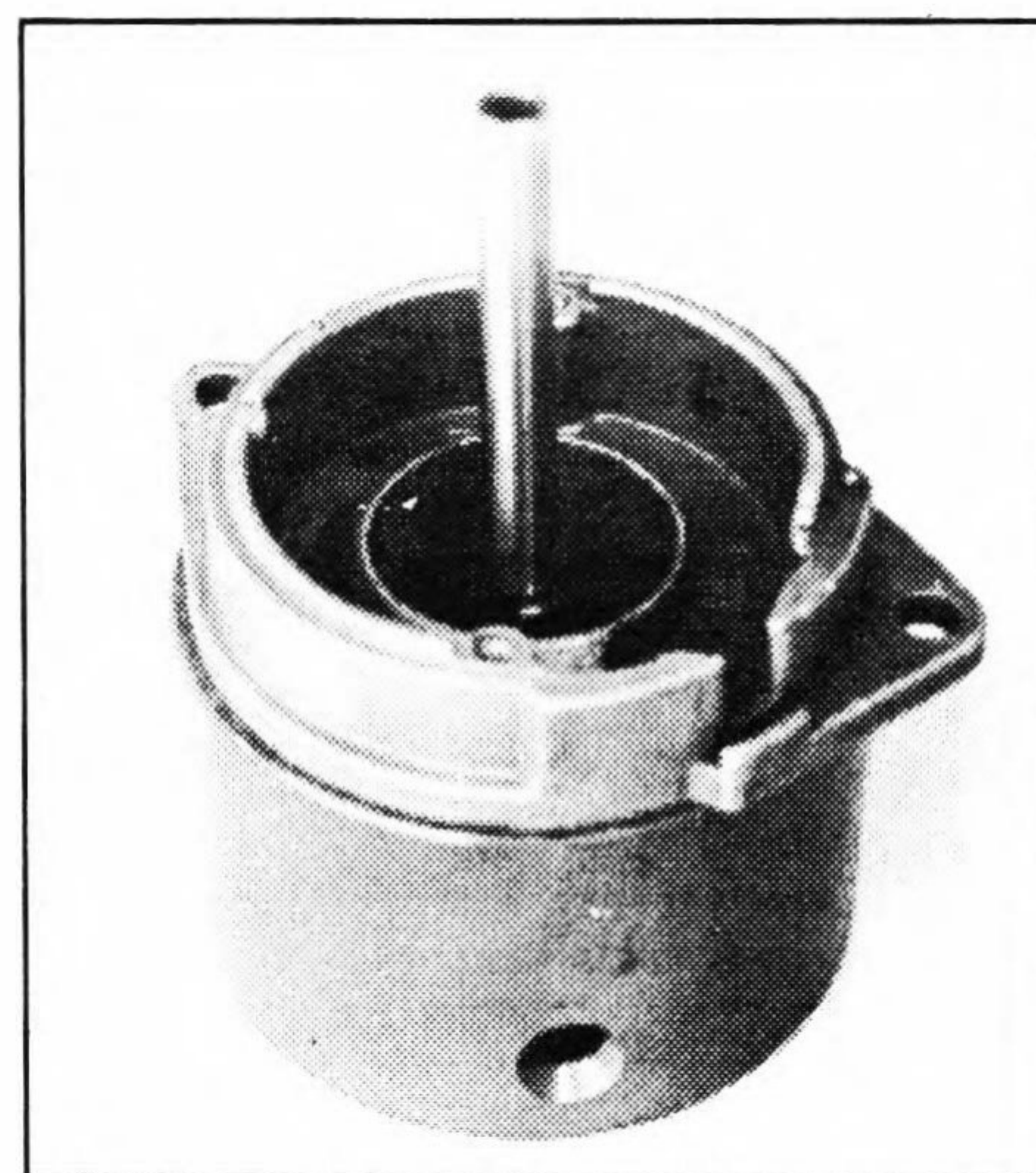
- * THIS TOOL KIT IS FAST AND EASY TO USE.
- * IT DOES AN EXCELLENT JOB.
- * DURABLE.
- * NOTHING TO GET OUT OF ADJUSTMENT, WORKS EVERY TIME.



NO. 804 FORD DRIVE HOUSING LOCK CUP REMACHINING TOOL AND FIXTURE

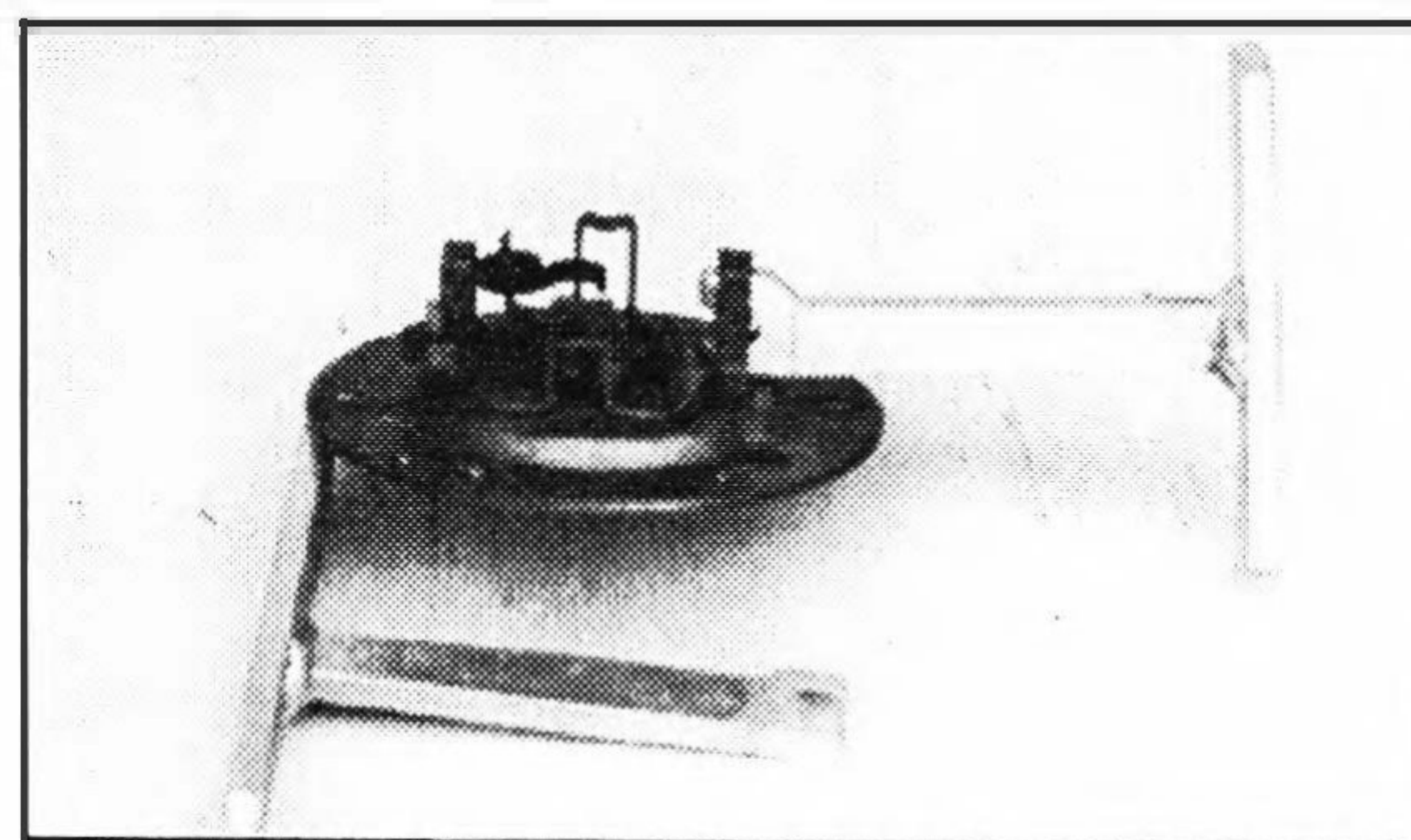
REMACHINES FORD DRIVE HOUSING LOCK CUP SURFACE.

DRIVE HOUSINGS REPAIR
ARMATURE END THRUST WILL NOT CHANGE AFTER
REMACHINING. (DUE TO LOCK CUP BENDING).



NO. 806 FORD BRUSH NO. 807 HOLDER SPREADER

CAN'T FIT BRUSHES?
PROBLEM SOLVER
FAST EFFICIENT NEW ON MARKET
STARTER ASSEMBLED

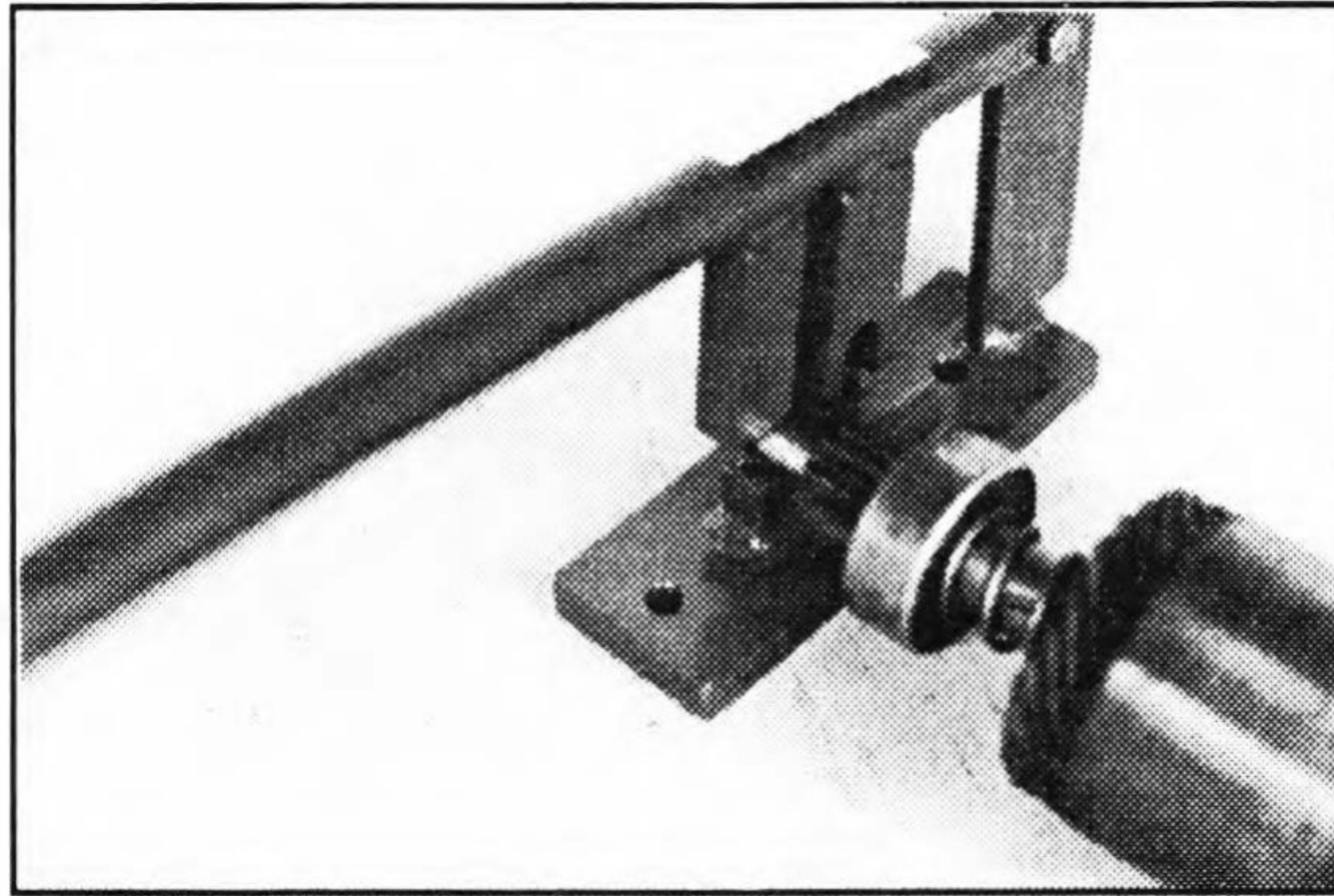


THIS BRUSH HOLDER SPREADER OPENS BRUSH HOLDERS BEFORE OR AFTER STARTER IS ASSEMBLED.
4 1/2" SPREADER NO. 806
4 " SPREADER NO. 807

809 - IS BOTH OF ABOVE AT A SAVINGS

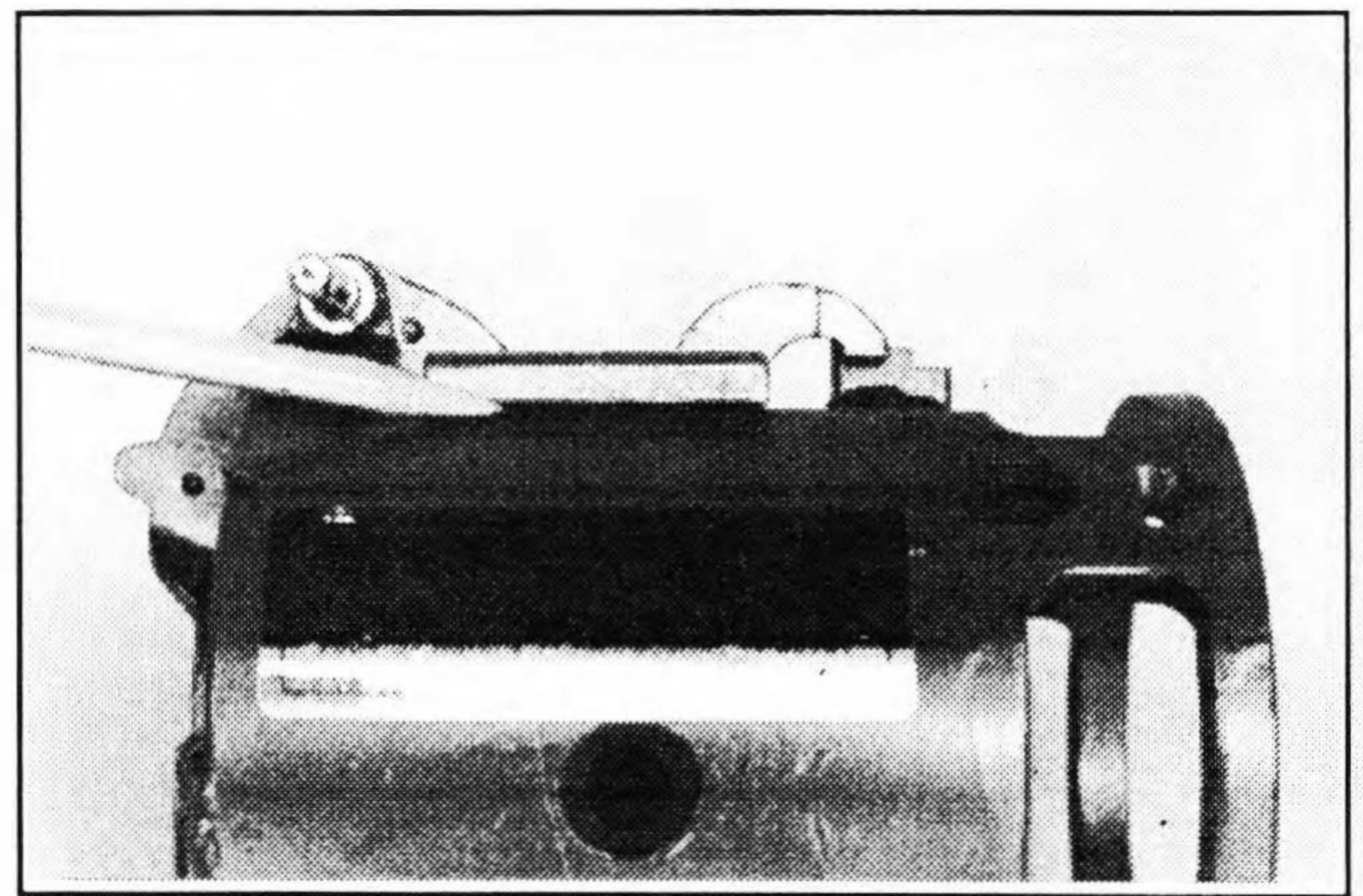
808 FORD ARMATURE LOCK REMOVER & INSTALLER

- * REMOVES OR INSTALLS SHAFT LOCK.
- * FAST & EASY TO OPERATE.



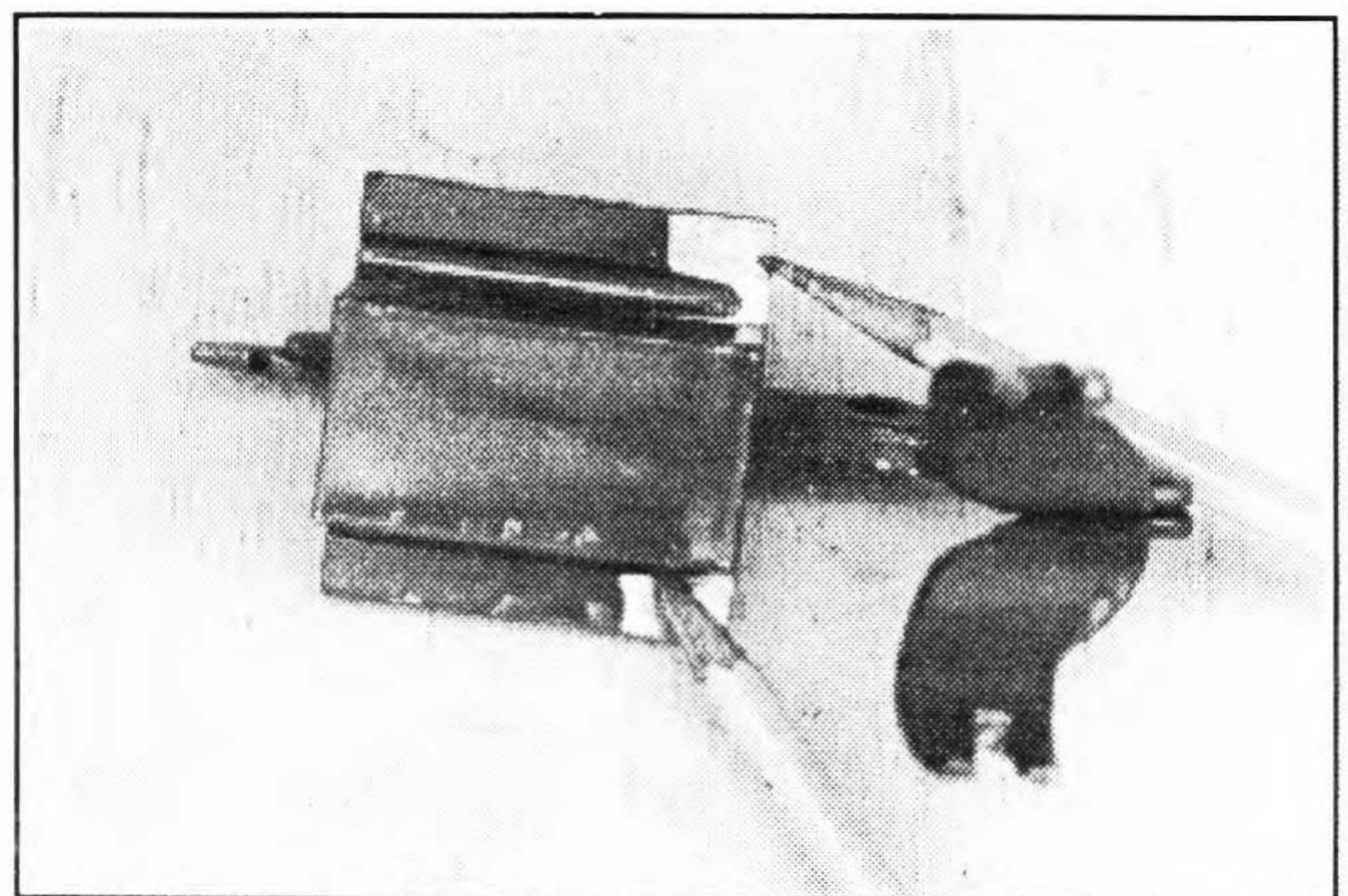
809 FORD MOVEABLE POLE SHOE MEASURING FIXTURE

- * ELIMINATES HASSLE OF POLE SHOE IDENTIFICATION.
- * IDENTIFIES BENT AND DISTORTED POLE SHOES.
- * GROUPES ALL 4 1/2" POLE SHOES INTO 3 BASIC GROUPES.



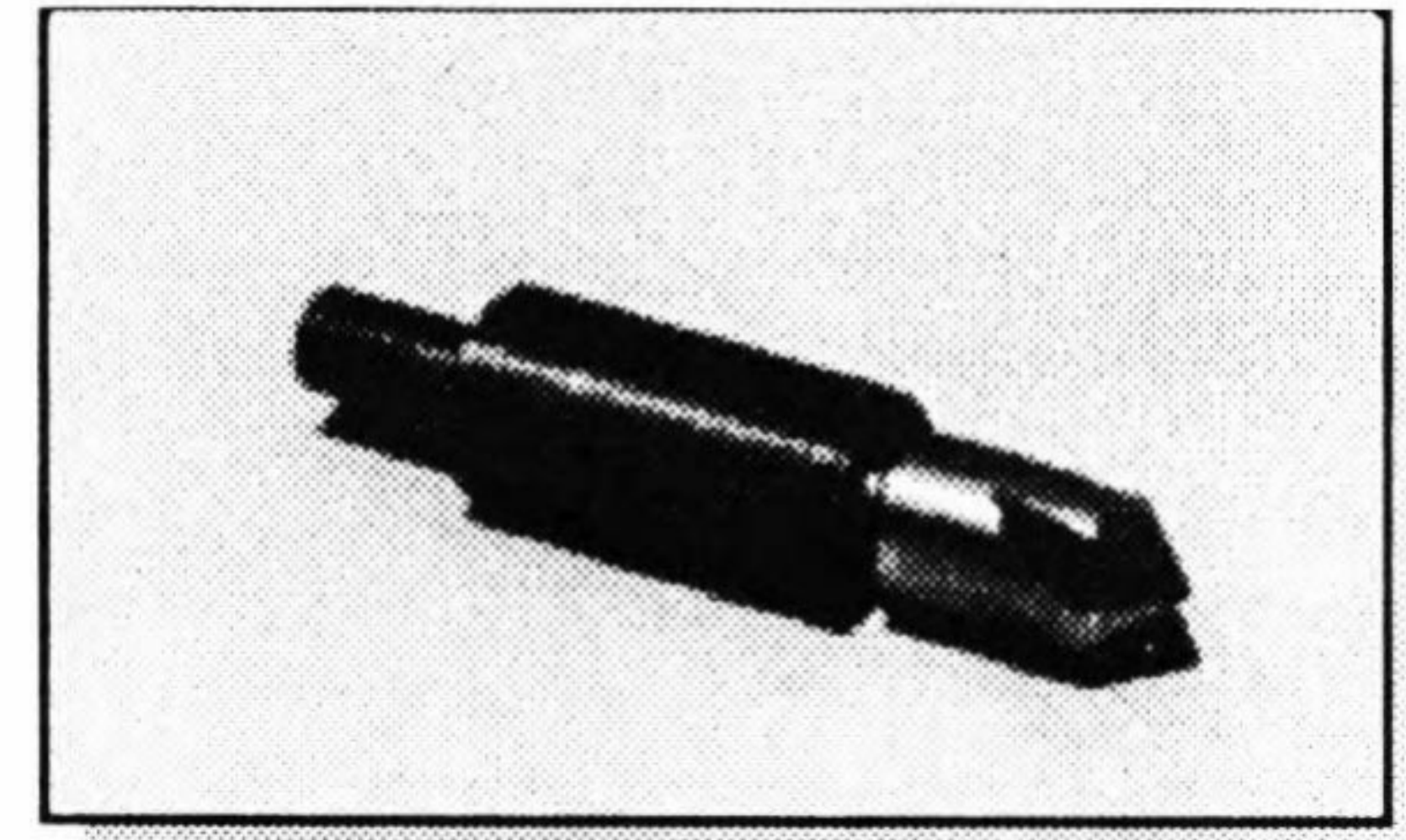
809-1 SAMPLE FORD MOVEABLE POLE SHOE

- * HOW TO GRIND POLE SHOE (4" - 4 1/2") TO COMPARE WITH SAMPLE.
- * LARGE AMOUNT OF POINT CHATTER WILL DISAPPEAR BY GRINDING POLE SHOE. THEN YOU CAN GROUP ALL 4 1/2" POLE SHOES INTO 3 GROUPES



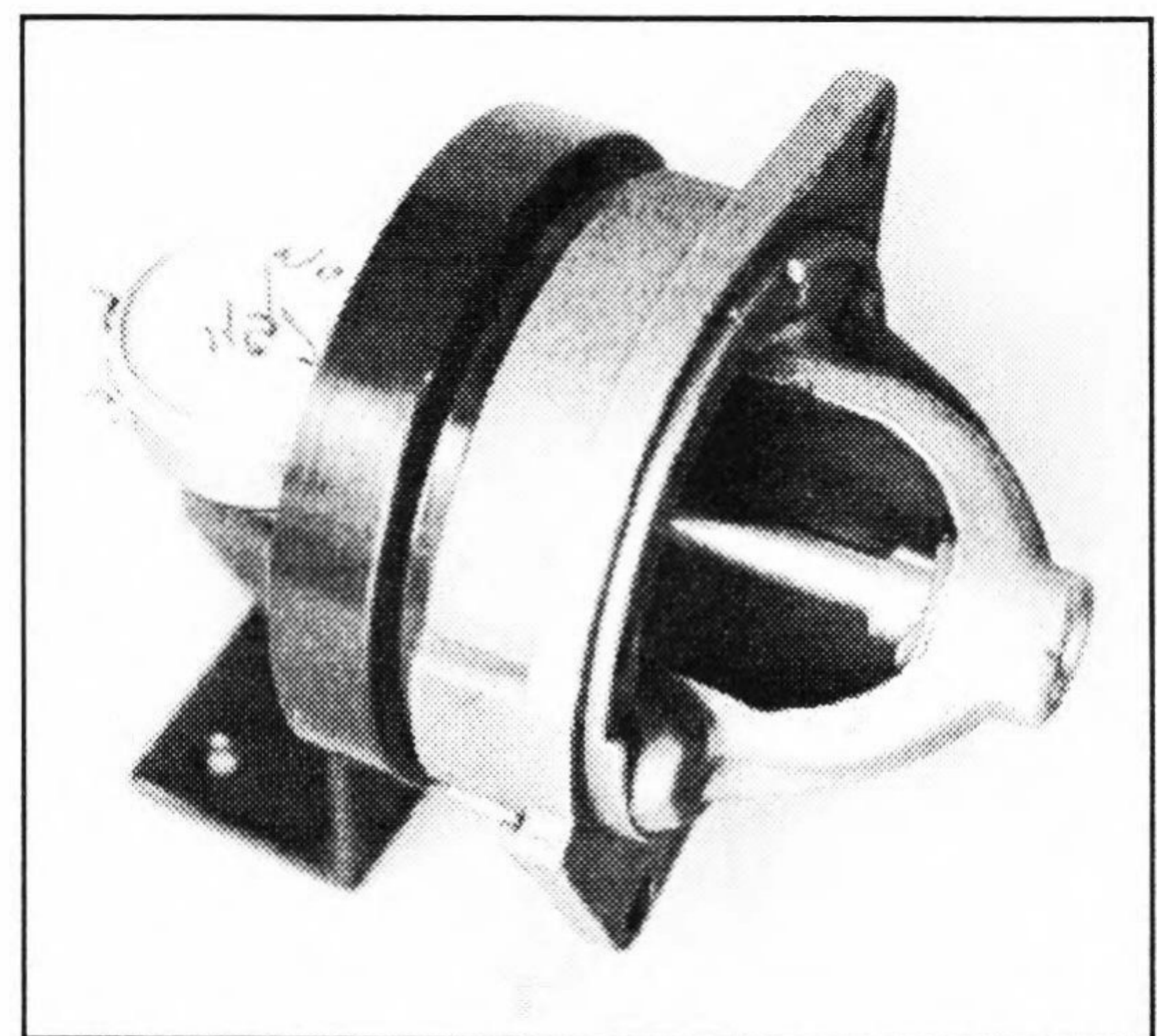
810 FORD DRIVE HOUSING CHAMFER BIT WITH EXTENSION

- * CHAMFER DRIVE HOUSING ON OUTSIDE TO $1/8$ " WIDTH IN ORDER FOR BUSHING TO BE DRIVEN IN FRONT OF THE OUTSIDE.
- * CHAMFER THE INSIDE BUSHING HOLE $1/32$ ".
- * DRIVE BUSHING IN FROM THE OUTSIDE.
- * BUSHING WILL REMAIN TIGHT AND NOT COME OUT OF THE HOUSING.



810-2 FORD HOUSING MEASURING FIXTURE WITH DIAL INDICATOR

- * FIXTURE MEASURES THE DRIVE HOUSING FOR SHIMS TO BRING THE DRIVE HOUSING TO A STANDARD LENGTH TO MATCH AN ARMATURE MEASURED IN THE 810-3. A STARTER WITH THE ARMATURE IN THE CORRECT POSITION IN RELATION TO THE FIELD COIL AND POLE SHOES, OPERATES CORRECTLY USING LESS AMPS. 810-2 & 810-3 ARE A MATCH PAIR.
- * LESS POINT CHATTER.
- * FOR MINIMUM ARMATURE END PLAY.

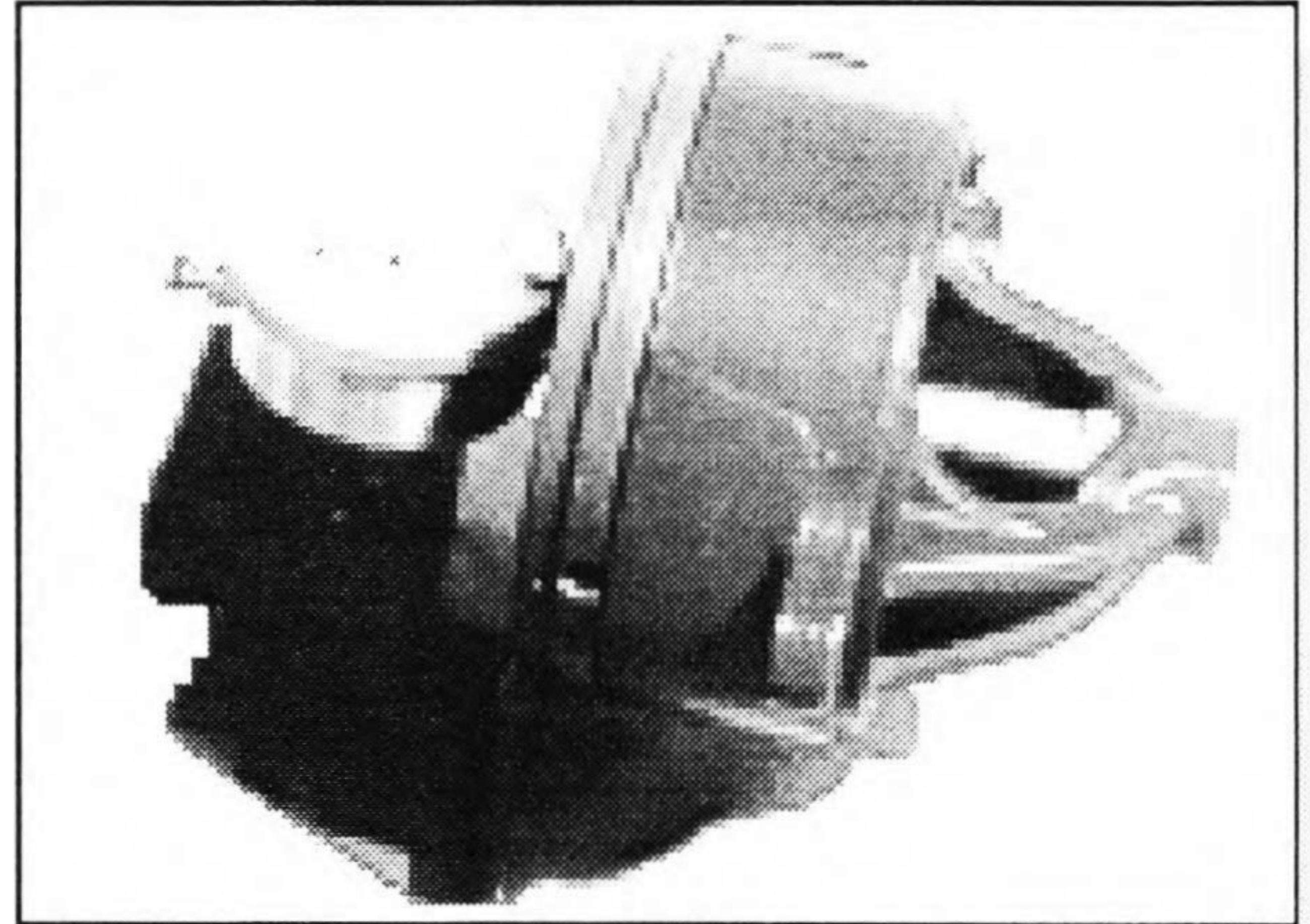


810-2 MOD 1

FORD MOD I 4 1/2" DRIVE HOUSINGS

FORD STARTER DRIVE HOUSING MEASURING FIXTURE WITH DIAL INDICATOR. «USE SHIMS»

ACE S-2564 - 032 THICK = S2576 = .065 THICK.

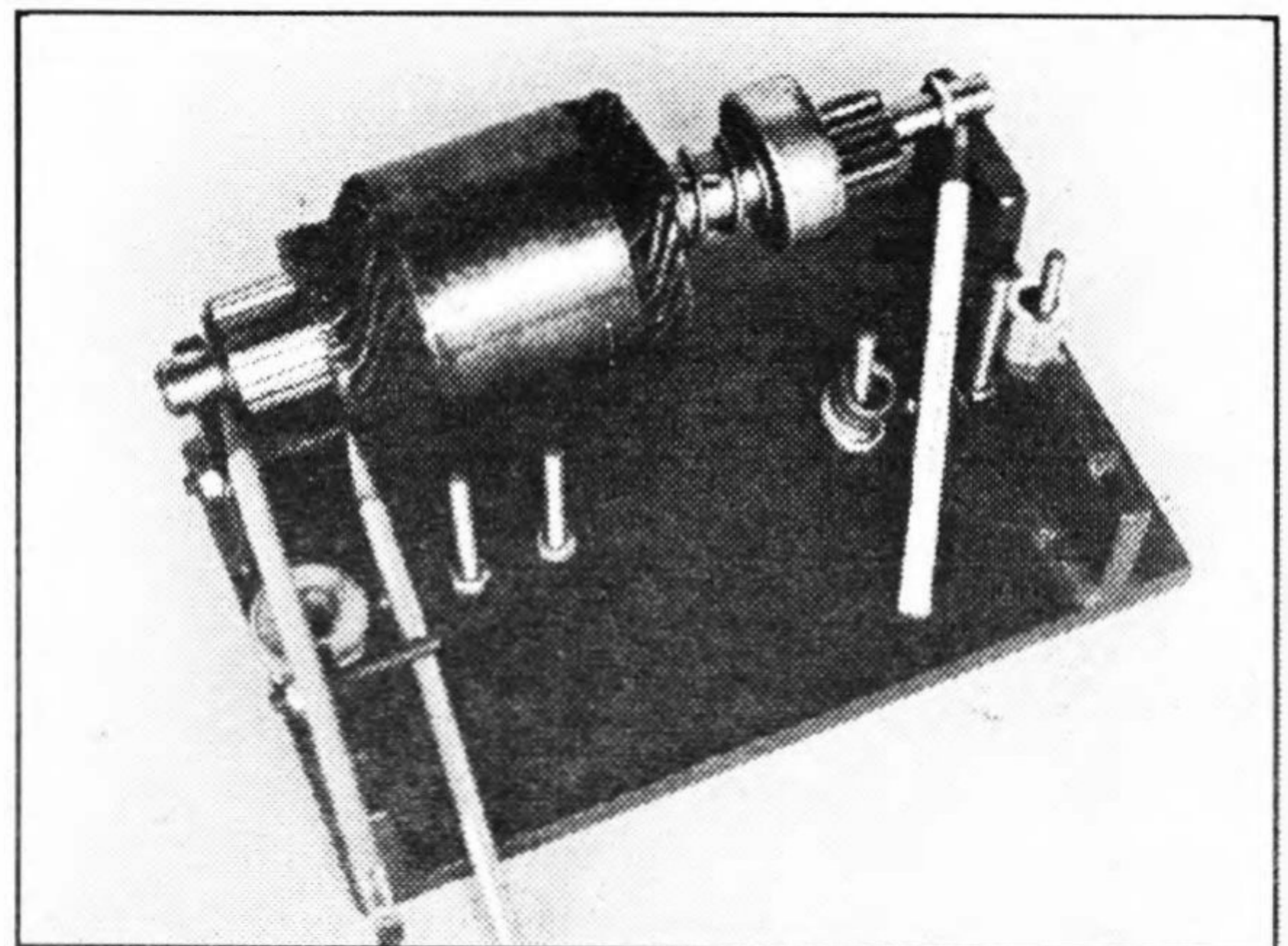


810 - 2 MOD I & 810-3 ARE A MATCH PAIR & WORK TOGETHER

FOR POSITIONING ARMATURE IN
CORRECT POSITION IN FIELD CASE.
FOR CORRECT ARMATURE END PLAY.
USES LESS AMPS. AT PULL IN.
CONSISTENT OPERATION.
STARTER DR. IN CORRECT POSITION.
OPERATES CORRECTLY USING LESS AMPS.

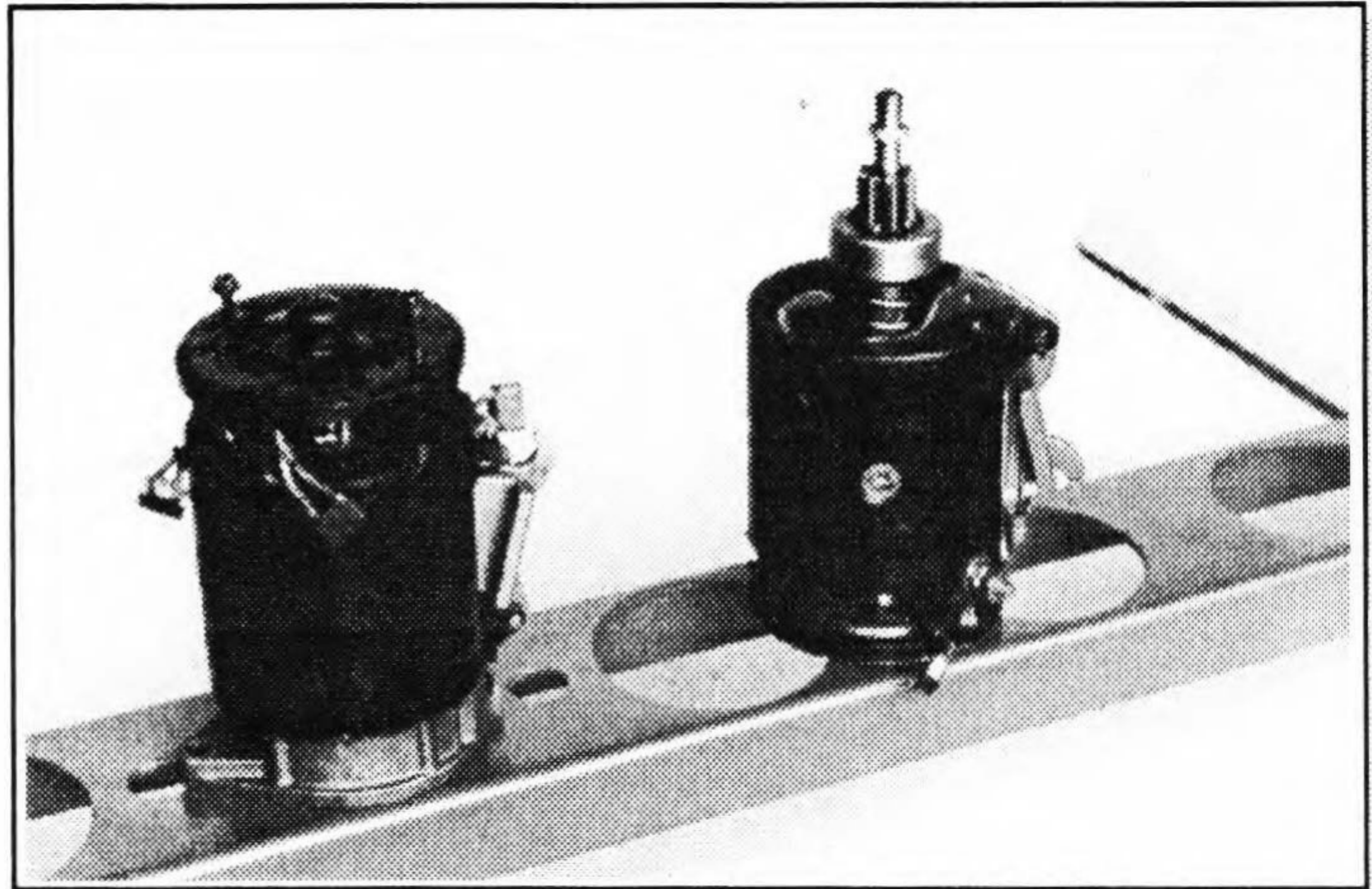
810-3 FORD ARMATURE LENGTH MEASURING FIXTURE

- * MEASURE AND SHIM ARMATURE LENGTH BEFORE ASSEMBLY.
- * THIS BRINGS THE ARMATURE TO A STANDARD LENGTH TO MATCH THE 810-2.
FOR MINIMUM ARMATURE END PLAY.
- * LESS POINT CHATTER.
- * MOVES STARTER DRIVE INTO CORRECT POSITION AWAY FROM THE FLYWHEEL.
- * OPERATES CORRECTLY USING LESS AMPS.



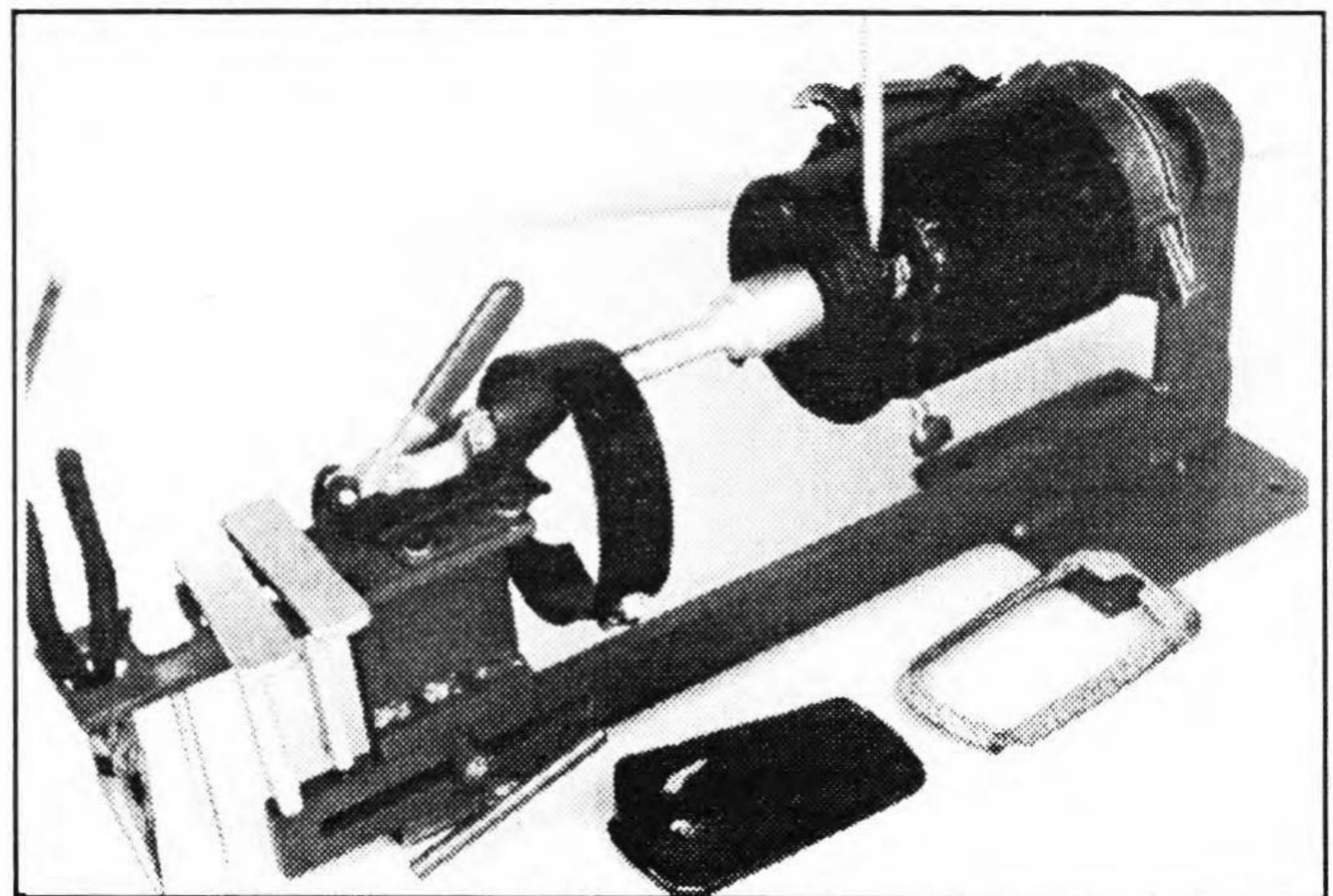
810-4 FORD ASSEMBLY RACK

- * ASSEMBLE STARTER WITH COMM. DOWN (LIKE A DELCO).
- * MAKES STARTER ASSEMBLY FASTER.



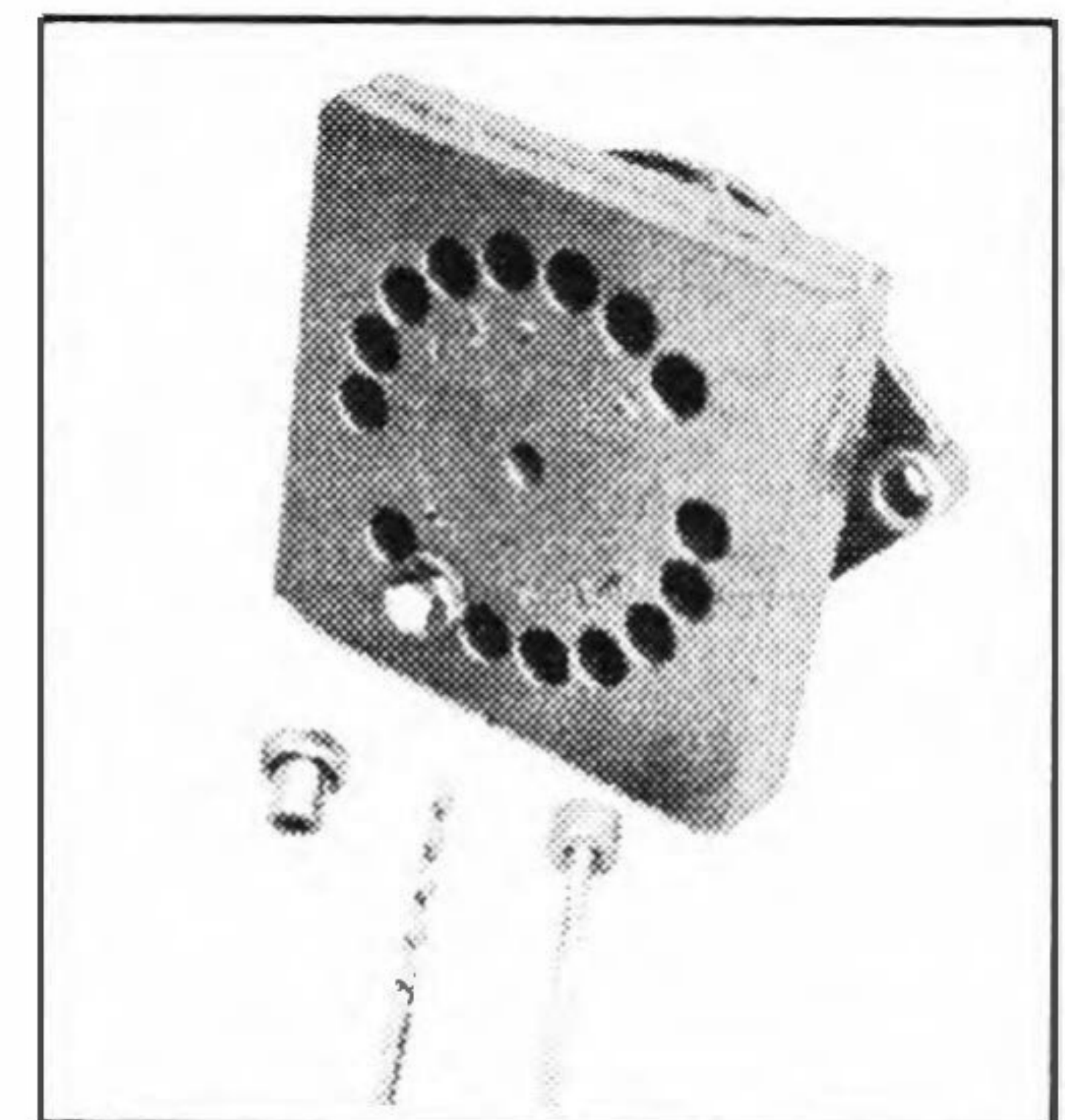
810-6 FORD STARTER SUB ASSEMBLY FIXTURE, BRUSH INSTALLATION, FREE RUN TEST, & COVER BAND INSTALLATION

- * 360 DEGREE ROTATION FOR BRUSH INSTALLATION.
- * FREE RUN STARTER TEST.
- * FINISH BY INSTALLING COVER AND BAND.
- * LONG CLAMP SHAFT HOLDS, MORE THAN SIX BANDS.
- * EASY LOADING AND UNLOADING OF STARTER.
- * HOLDER ON REAR OF FIXTURE FOR 806, 807, & SMALL HAND TOOLS.



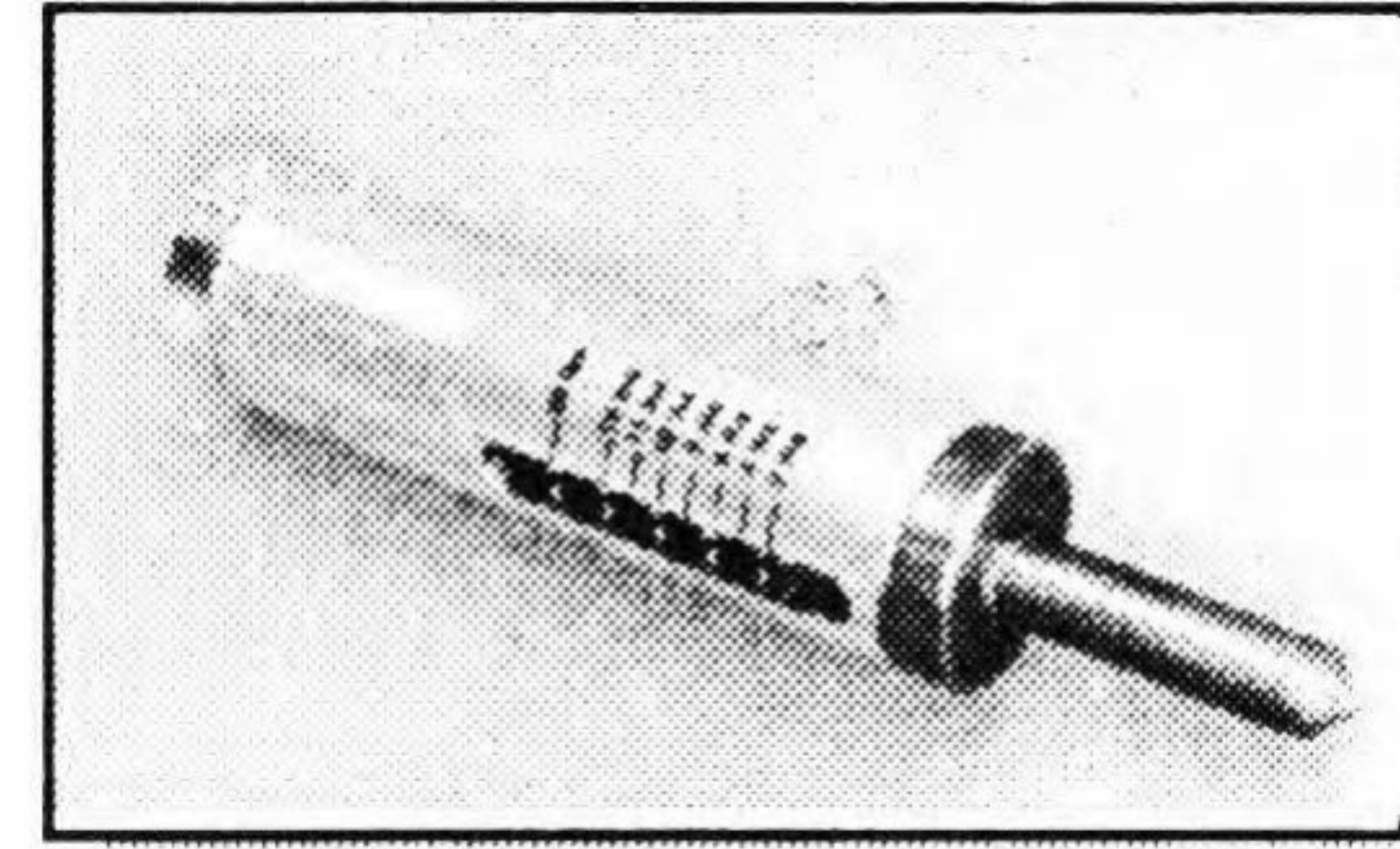
812 FORD STARTER DRIVE HOUSING BROKEN THROUGH BOLT DRILLING FIXTURE

- * FIXTURE HAS EIGHT PAIRS OF HOLES TO ACCOMMODATE DIFFERENT BOLT SPACING OF ALL MANUFACTURED HOUSINGS. IN A SMALL AMOUNT OF TIME, BOLT CAN BE DRILLED OUT AND NOT TOUCH THE THREADS OF THE HOUSING.



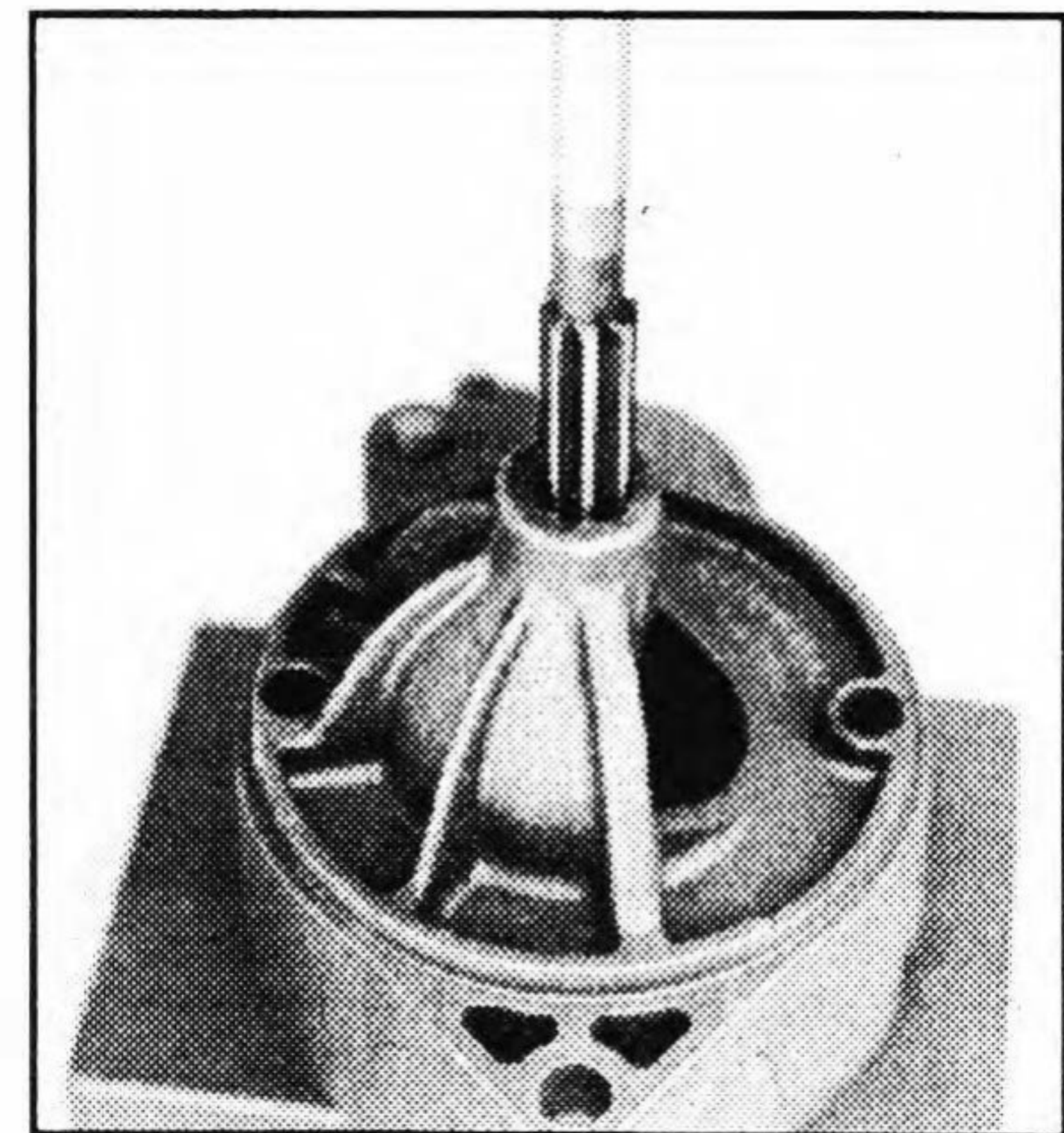
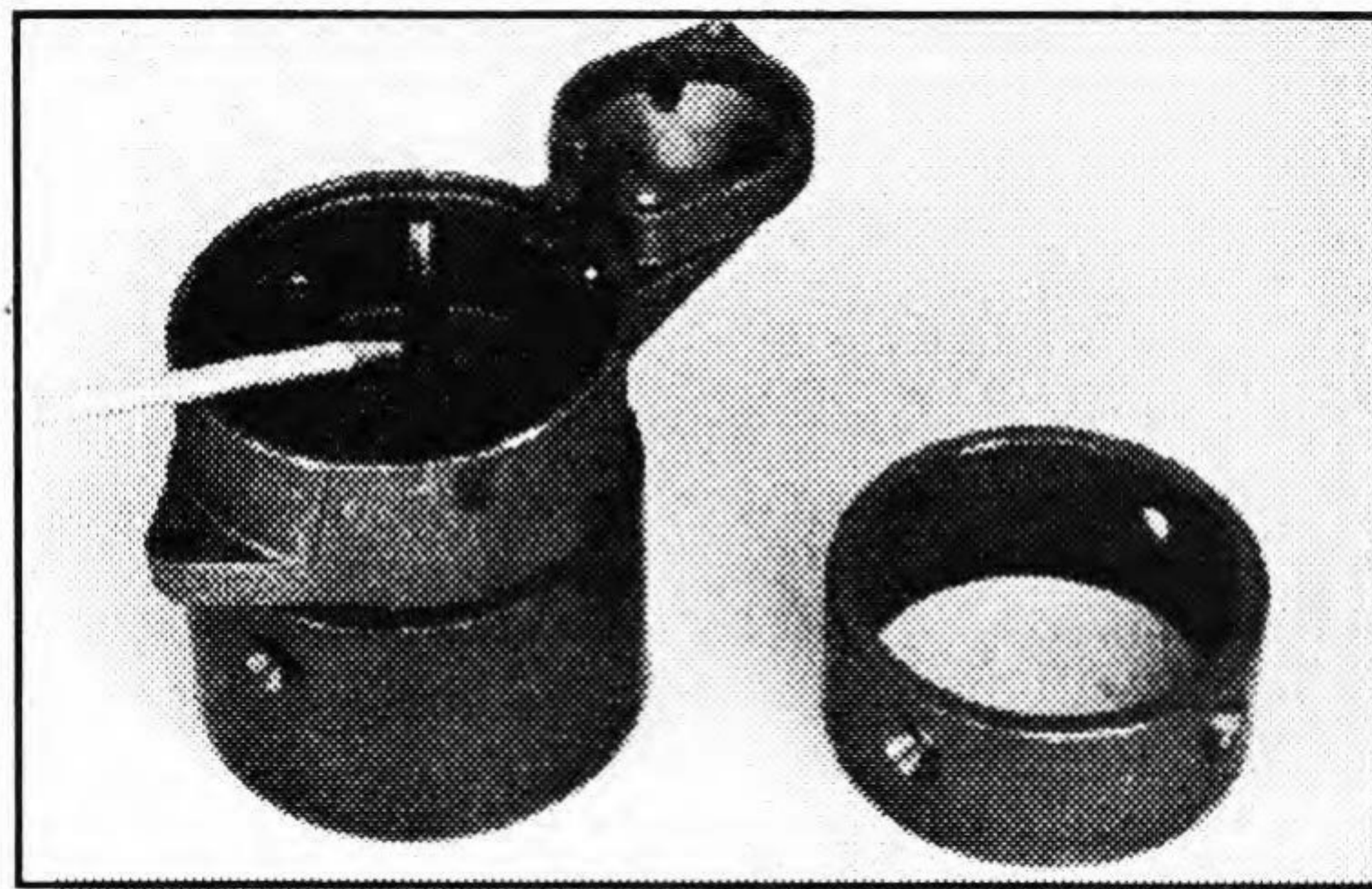
813 FORD CONTACT PRESSURE GAUGE

- * MEASURING CONTACT PRESSURE AT THE POINT WHERE THE LEVER PUSHES ON THE CONTACT SPRING.
- * NO LESS THAN 6 LBS. AND NO MORE THAN 11 LBS.



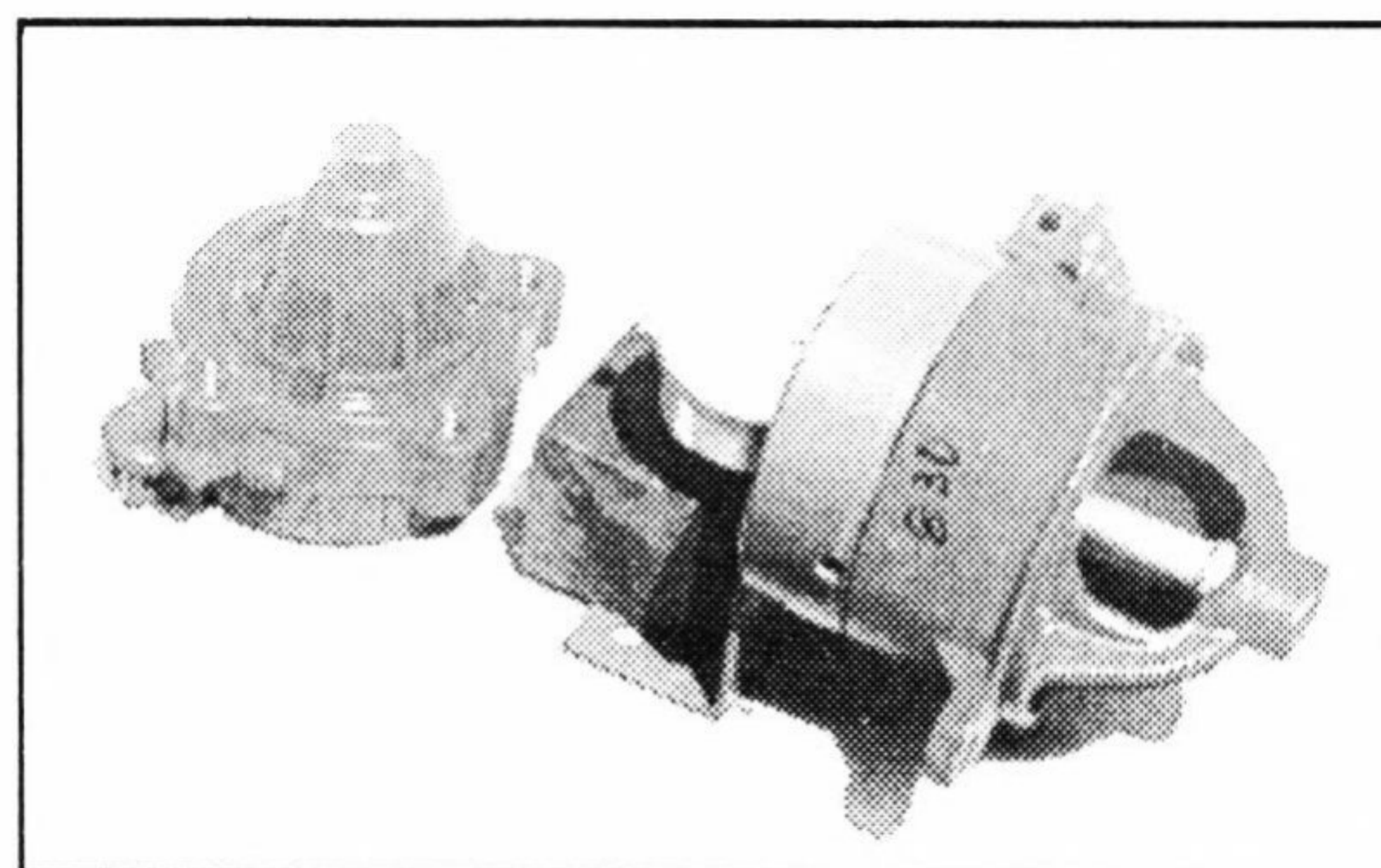
815 FORD STARTER DRIVE HOUSING NEEDLE BEARING REMOVING KIT

- * THREE EASY STEPS-BEARING IS OUT: SET DRIVE HOUSING IN ROUND RECEIVER AND DRILL THROUGH CENTER OF NEEDLE BEARING, REMOVE HOUSING AND PLACE ON PLATE, USE SPECIAL REAMER TO DRILL DOWN TO TOP OF BEARING. BE GENTLE WITH REAMER TO BEARING, TOUCH EASY, USE DRIVER TO REMOVE BEARING.



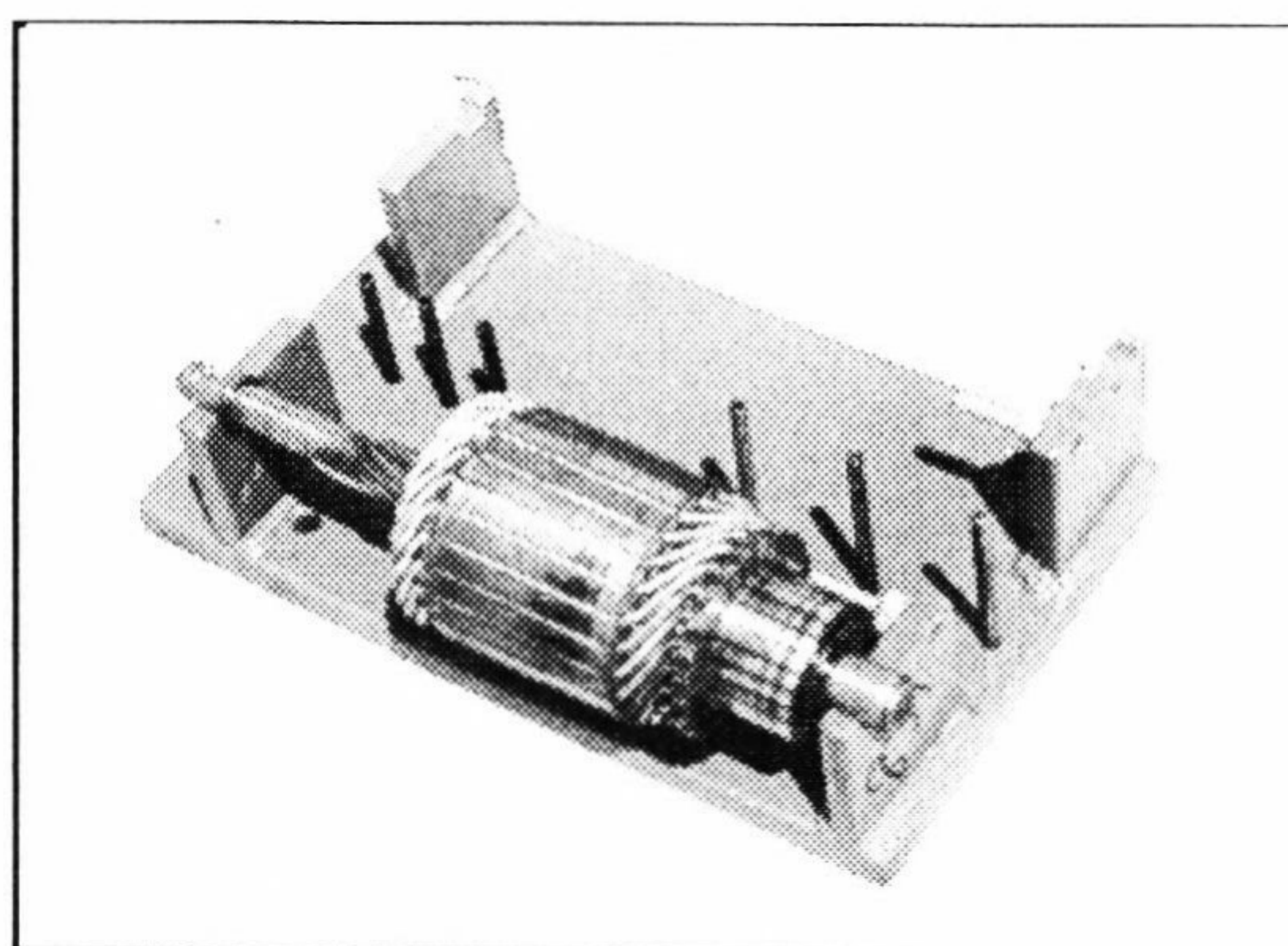
830 MOD II & III

4" FORD STARTER DRIVE HOUSING MEASURING
FIXTURE W/DIAL INDICATOR.
«USE SHIMS» ACE S-2564 - 032 THICK = S2476
= .065 THICK.



831 MOD II & III

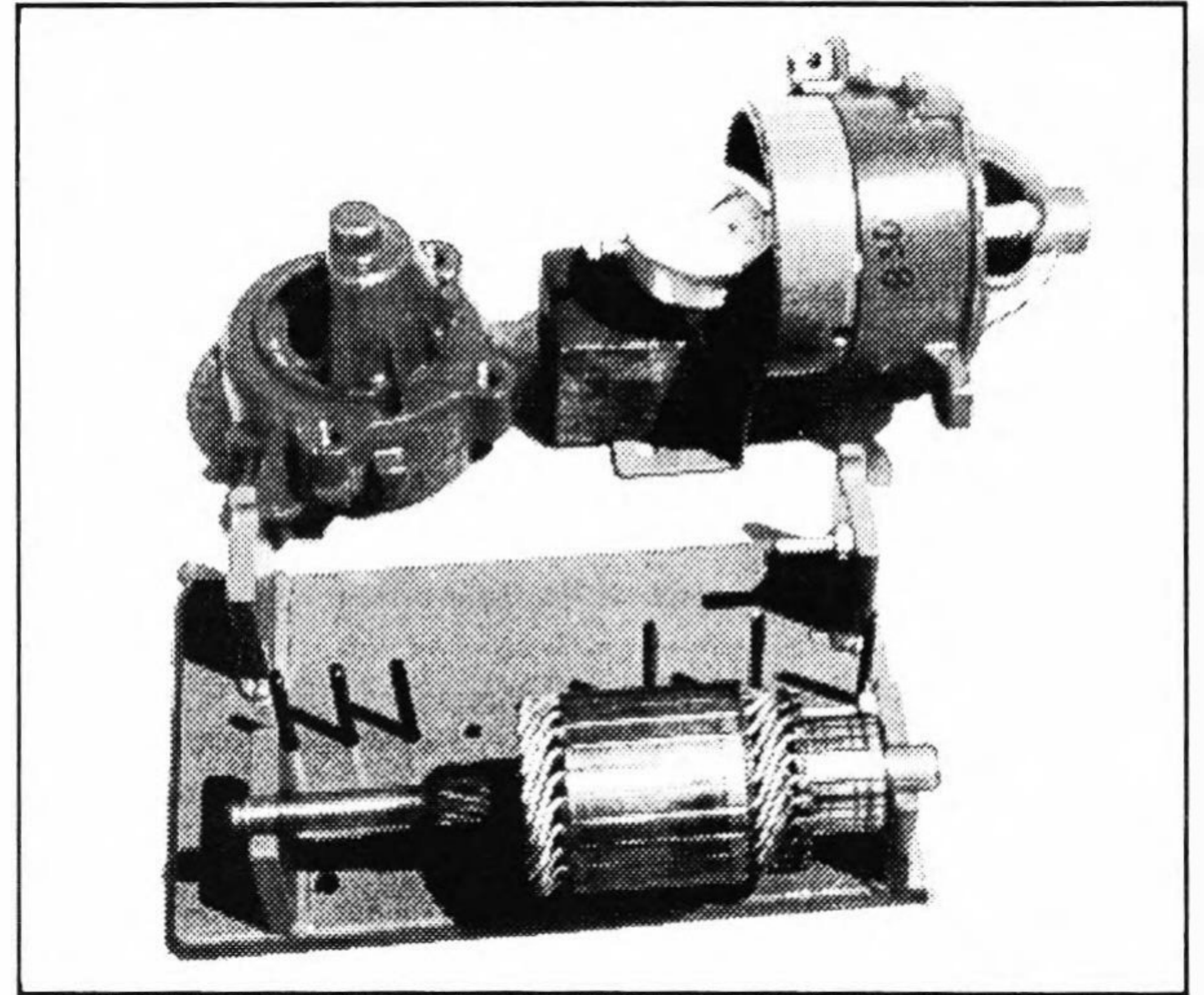
FORD STARTER ARMATURE THRUST LENGTH
MEASURING FIXTURE.





830 & 831 ARE A PAIR

FOR POSITIONING ARMATURE IN CORRECT
POSITION IN FIELD CASE.
FOR CORRECT ARMATURE END PLAY.
USES LESS AMPS. AT PULL IN.
CONSISTENT OPERATION.
STARTER DR. IN CORRECT POSITION.
OPERATES CORRECTLY USING LESS AMPS.

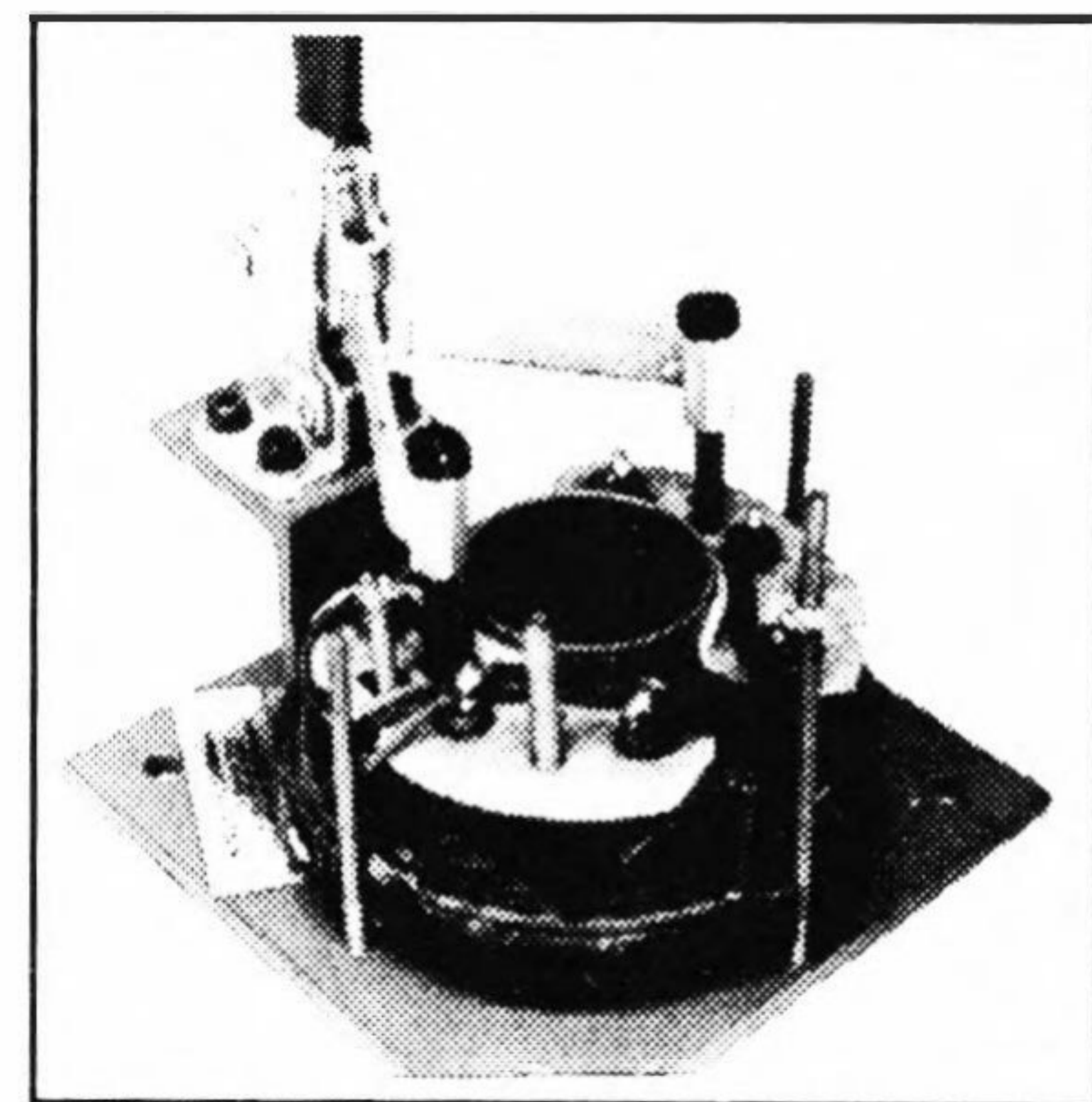


NO. 1012 MOTOROLA STATOR DIODE PLATE TOOL

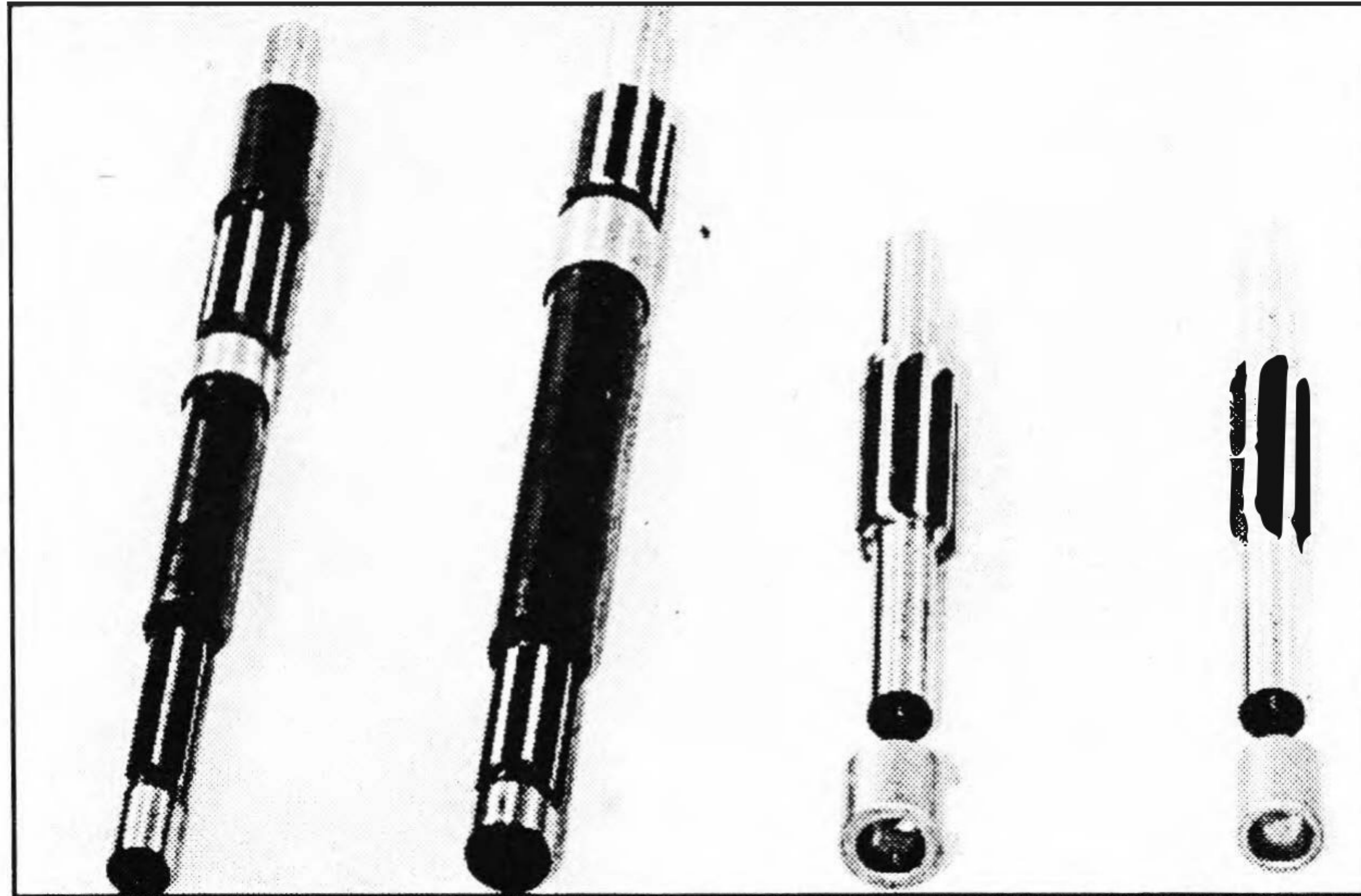
PROBLEM SOLVER

**FAST - FAST
EASY-EASY**

STATOR AND DIODE PLATES ARE HELD IN CORRECT
POSITION FOR HOOK UP, SOLDERING STATOR AND TRIO
LEADS TO DIODE. THIS TOOL WILL HELP
POSITION LEADS AROUND THROUGH BOLT.
SIMPLE TO USE EFFICIENT AND FAST.



SPECIAL REAMERS



CHRY GEAR = 40 MT = 4456 = 4422
1500-C 1500-40

1500-C CHRYSLER REAMER .

ALIGNS I.D. OF BOTH BUSHINGS IN GEAR BOX. REMOVES IRREGULARITIES OF INSTALLATION OF NEW BUSHINGS. RESIZES ARMATURE DRIVE BUSHING TO STANDARD. TROUBLE FREE GEAR BOX ASSEMBLY = FREE RUNNING STARTERS = NO DISASSEMBLY DUE TO TIGHT BUSHINGS OR SHAFT STUCK IN BUSHINGS = FEWER BURNED UP ARMATURES DUE TO TIGHT BUSHINGS.

1500-40 40 MT REAMER

ALIGNS CENTER PLATE AND DRIVE END BUSHING. REAMER IS FOR USE WITH STD AND PRE FIT BUSHINGS AS WELL AS BRASS BUSHINGS. REAMER REMOVES BURRS AND IRREGULARITIES DUE TO INSTALLATION, ETC. CORRECTS CENTER PLATE AND NOSE MISALIGNMENT DUE TO INCORRECT MACHINING AND IN USE CASTING WARPAGE.

154456

REAMER IS FOR SALVAGE OF INDUSTRIAL DRIVE HOUSING'S WHEN THE HOUSING'S ARE NONEXISTENT OR VERY EXPENSIVE. WHERE R.B.S.'S. 514 REAMER DOES NOT CUT OUT ALL SHAFT WEAR. THE 4456 REAMER ALLOWS A LARGER O.D BUSHING TO BE USED.

154422

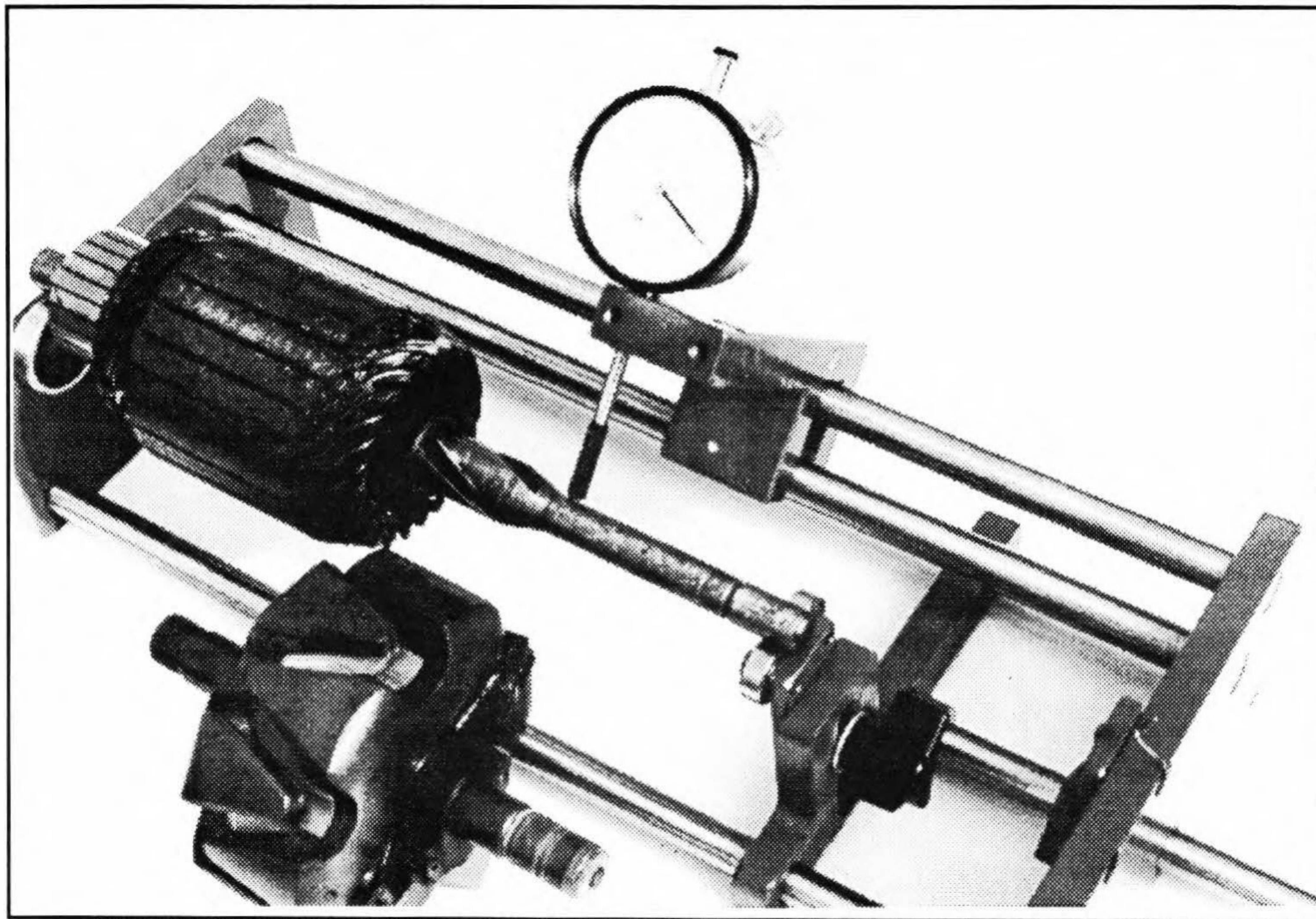
REAMER FOR REMACHINING POPULAR THIN ALUMINUM CASTING PASSENGER CAR DRIVE HOUSINGS WITH THIN WALL BUSHINGS TO A LARGER O.D. BUSHING. (NOT AS LARGE AS A 514 BUSHING).

1503 ROTOR RUNOUT MEASURING FIXTURE

MEASURES ARMATURES & ROTORS SHAFTS & SLIP RING'S & COMM.'S
DOMESTIC & FOREIGN PASS. CAR.

WITH ALTERNATORS RPM ' S OPERATING FROM 0 TO 15,000 PLUS RPM'S
ROTOR MUST BE STRAIGHTH.

WITH SLIP RINGS OUT OF ROUND, CAUSES BRUSH BOUNCE VERY HARD ON VOLTAGE
REGULATORS, TRIODS AND DIODES.

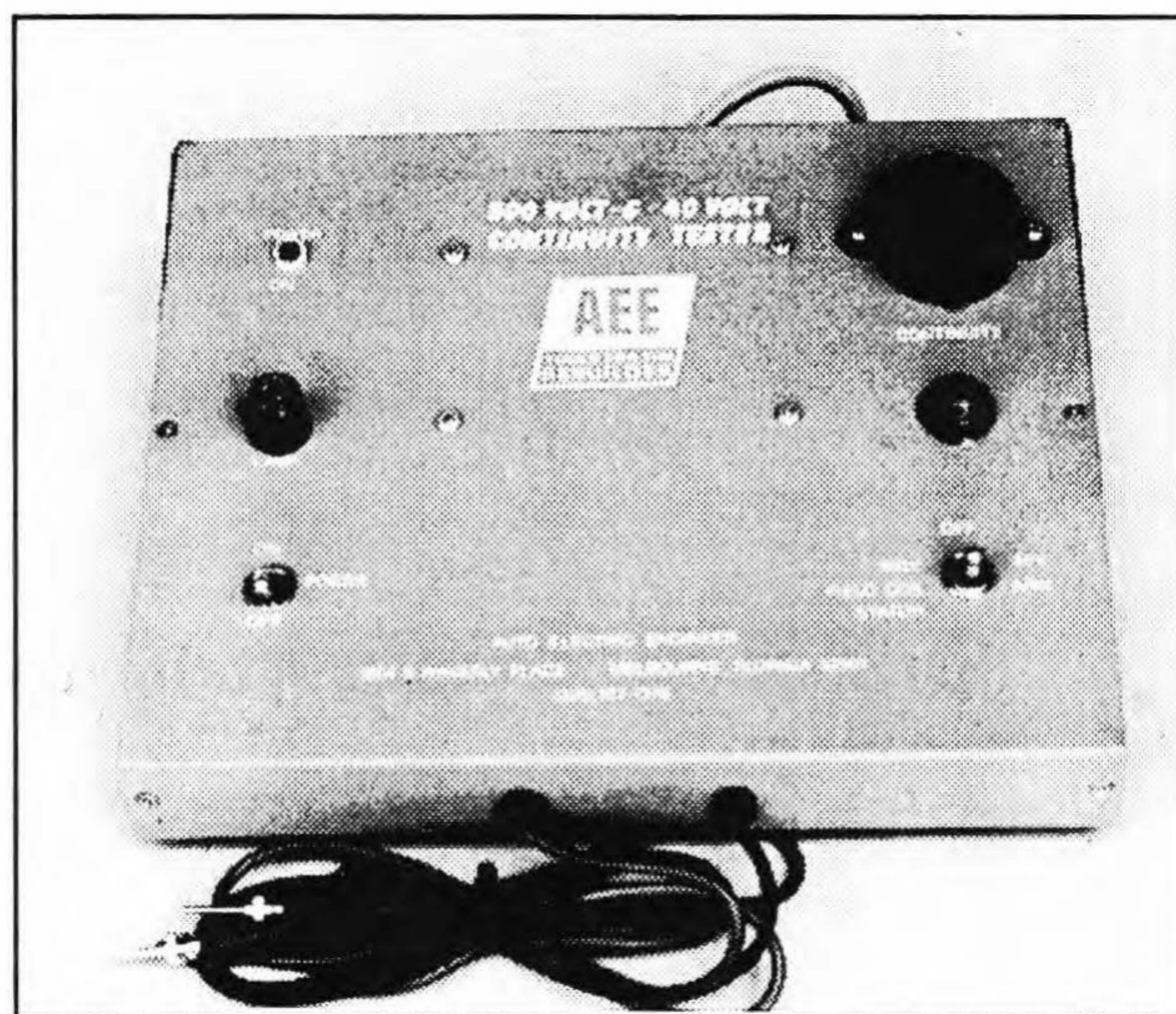


**1503-L A LONG INDUSTRIAL VERSION IS AVAILABLE FOR ALL ARMATURES
ROTORS TO 50 MT (2 FT LONG)**



1505 40 & 500 VOLT SHORT TESTER

- * 40 VOLTS FOR ARMATURE TEST TO GROUND.
- * SAVE MANY ARMATURES, YOU CAN USE WITH NO PROBLEMS.
- * 40 VOLTS FOR PAPER COVERED FIELD COIL'S
- * 500 VOLTS FOR STATORS AND ROTORS.
- * 500 VOLT TEST ON INTERNAL REGULATOR ROTORS IS A MUST. THIS TESTER WILL FIND ROTORS WITH SMALL SHORTS THAT WILL WORK THE TRIO AND REGULATOR TO DEATH. WITHOUT THIS TESTER THE UNITS COME BACK WITH THE TRIO OR REGULATOR BLOWN OUT. NOTHING ELSE WRONG WITH THE ALTERNATOR.

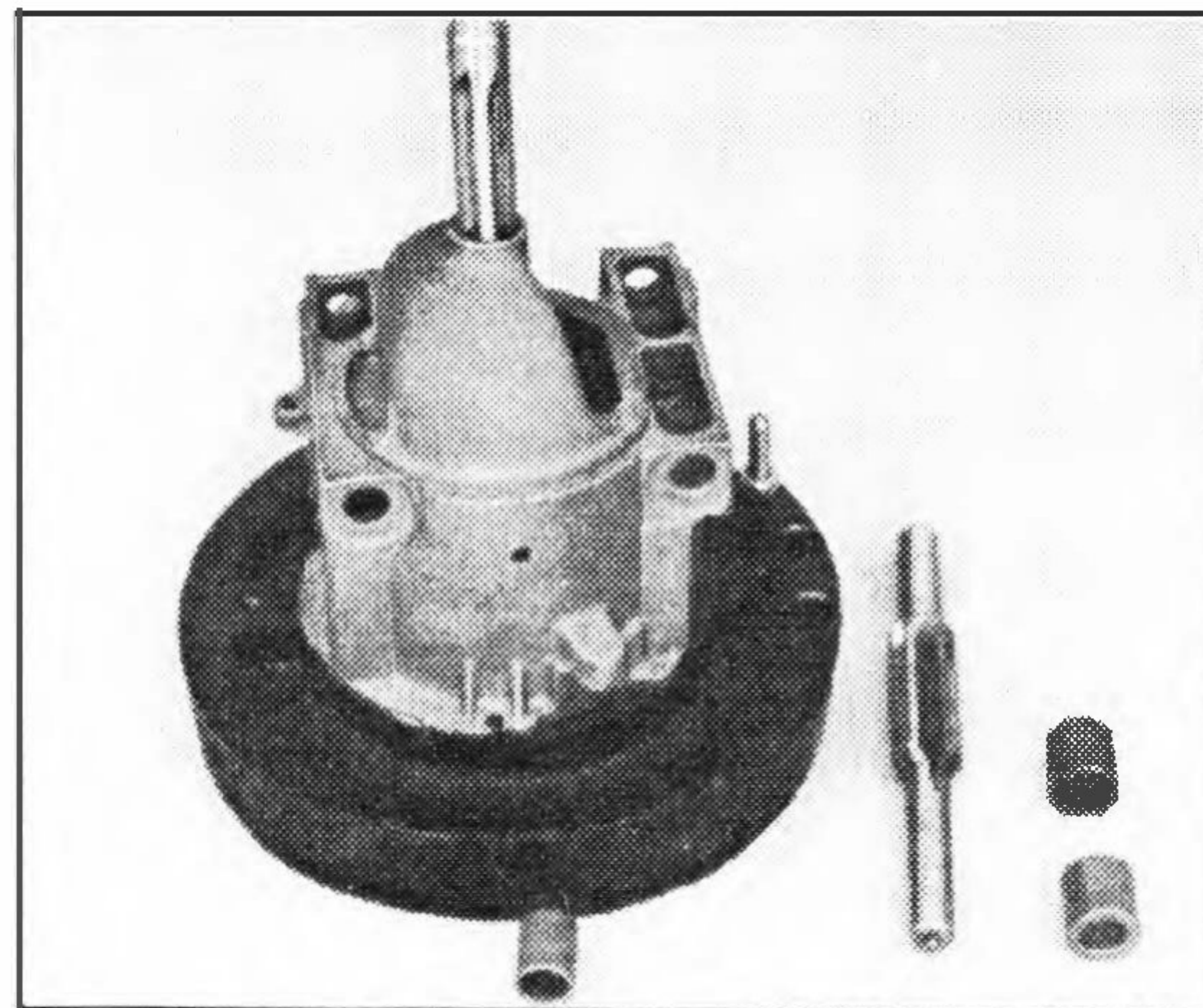


154422 REAMER FOR INSTALLING A 4422 WHEN A 4413 OR 4451 IS LOOSE IN THE HOUSING

- * BORE THE HOUSING USING REBUILDER SUPPLY OF ATLANTA DRIVE HOUSING BORING FIXTURE WITH OUR REAMER (154422) DELCO AND FORD DRIVE HOUSINGS.

154456 EXTRA LARGE O.D. REAMER FOR REPAIRING INDUSTRIAL DRIVE HOUSINGS (FORKLIFT, TRACTORS, ETC.)

- * USING REBUILDERS SUPPLY OF ATLANTA BORING FIXTURE AND OUR 1554456 REAMER.
- * WE MAKE A BUSHING WITH .470 I.D. DELCO AND FORD PASSENGER SHAFT SIZE (154456-BU) FOR 1/2 (.500) I.D. BUSHING USE (ACE #4381 OR EQUIVALENT).
- * INDUSTRIAL APPLICATIONS.
- * THREE INDUSTRIAL DRIVE HOUSINGS PAYS FOR THIS REAMER.



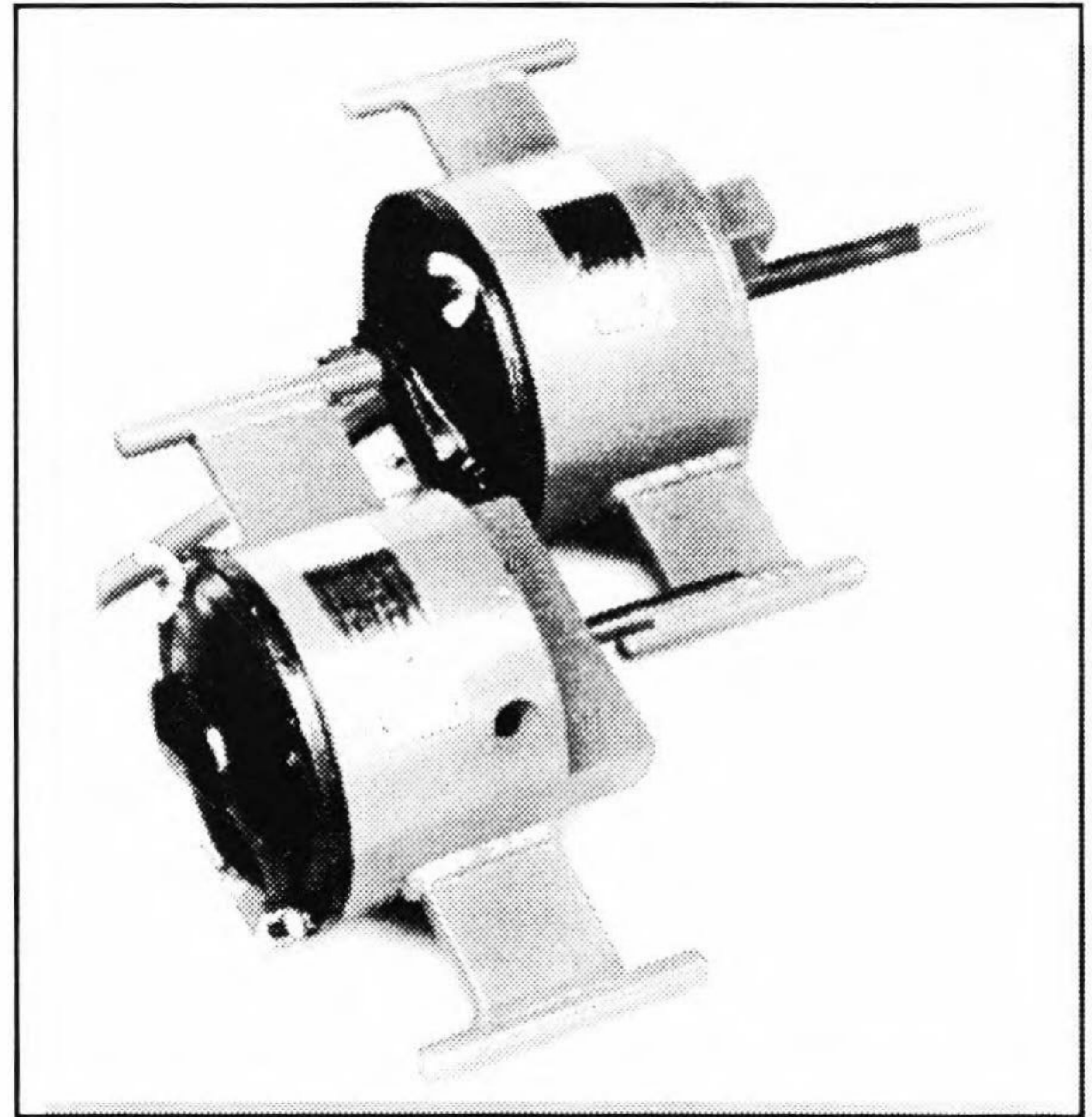


NO. 1560 40 MT COMM. END BUSHING REAMER KIT

SIZE'S BUSHING TO STD = ALINGS AND
CENTERS=FASTER ASSEMBLY=SMOOTHER
RUNNING STARTERS
NO RUINED ARMATURE OR SHAFT OR END
PLATE DUE TO TIGHT BUSHINGS.
UNDERSIZED REAMERS AVAILABLE. OPTIONAL
USE WITH OUR GEAR REDUCTION MOTOR
AND FOOTSWITCH NO.1500.

NO.1561 50 MT COMM. EN BUSHING REAMER KIT

SAME AS ABOVE, BUT FOR 50 MT COMM.
END PLATE BUSHINGS.

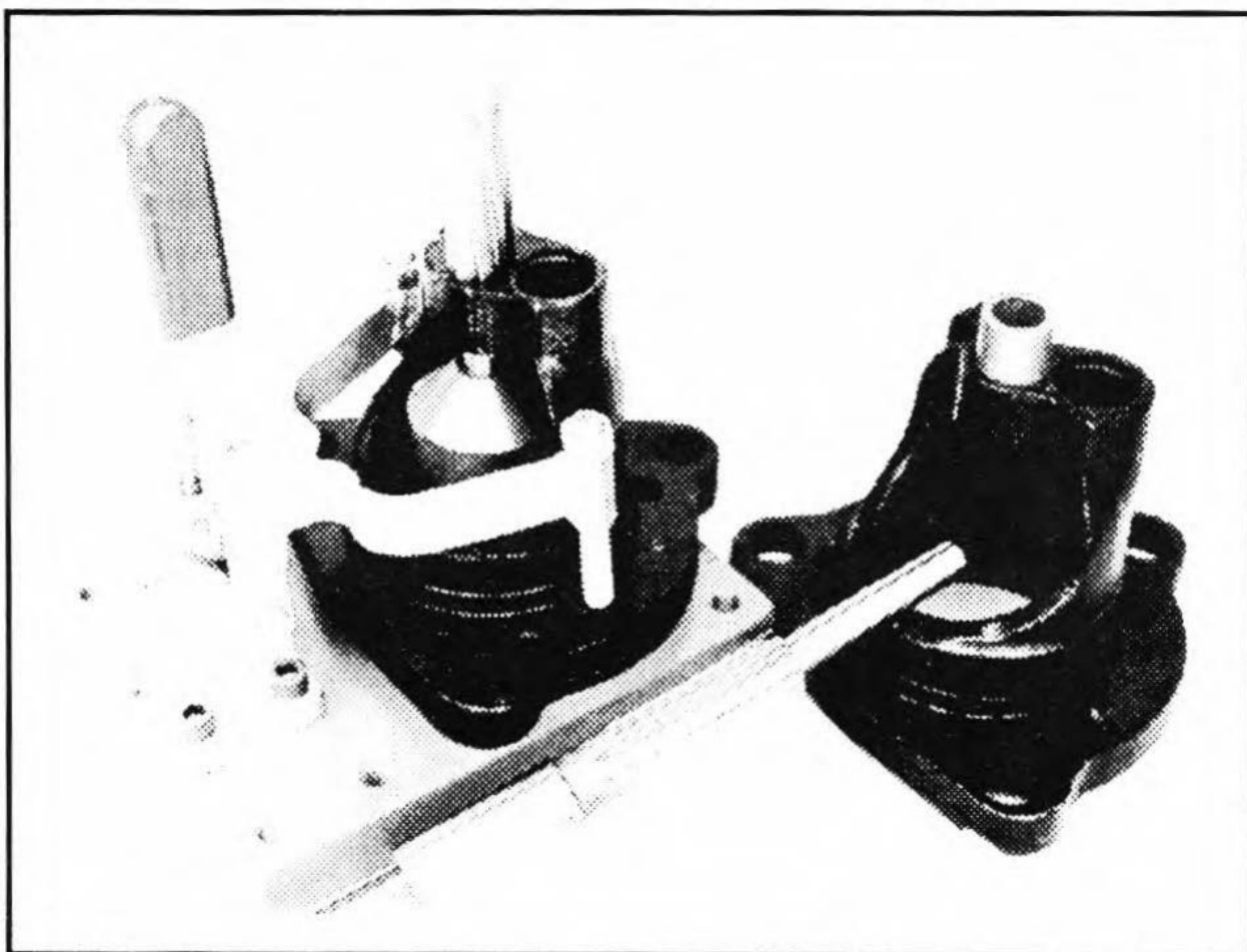


No.1562 40MT DRIVE HOUSING BORING FIXTURE

SAVE YOUR 40MT DRIVE HOUSINGS WHEN
THE SHAFT HAS WORN PAST THE BUSHING.
EASILY BORE OUT A LARGER O.D. AND TO
INSTALL AN OVERSIZED BUSHING.
(STANDARD ITEM FROM YOUR SUPPLIERS).
THIS FIXTURE WILL CENTER THE BUSHING
HOLE TRUE TO HOUSING FLANGE.
REMACHINE 15 DRIVE HOUSINGS AND TOOL
WILL PAY FOR ITSELF.

No. 1562-2

OPTION = EXTRA LARGE REAMER FOR BADLY
WORN BUSHING HOLES.

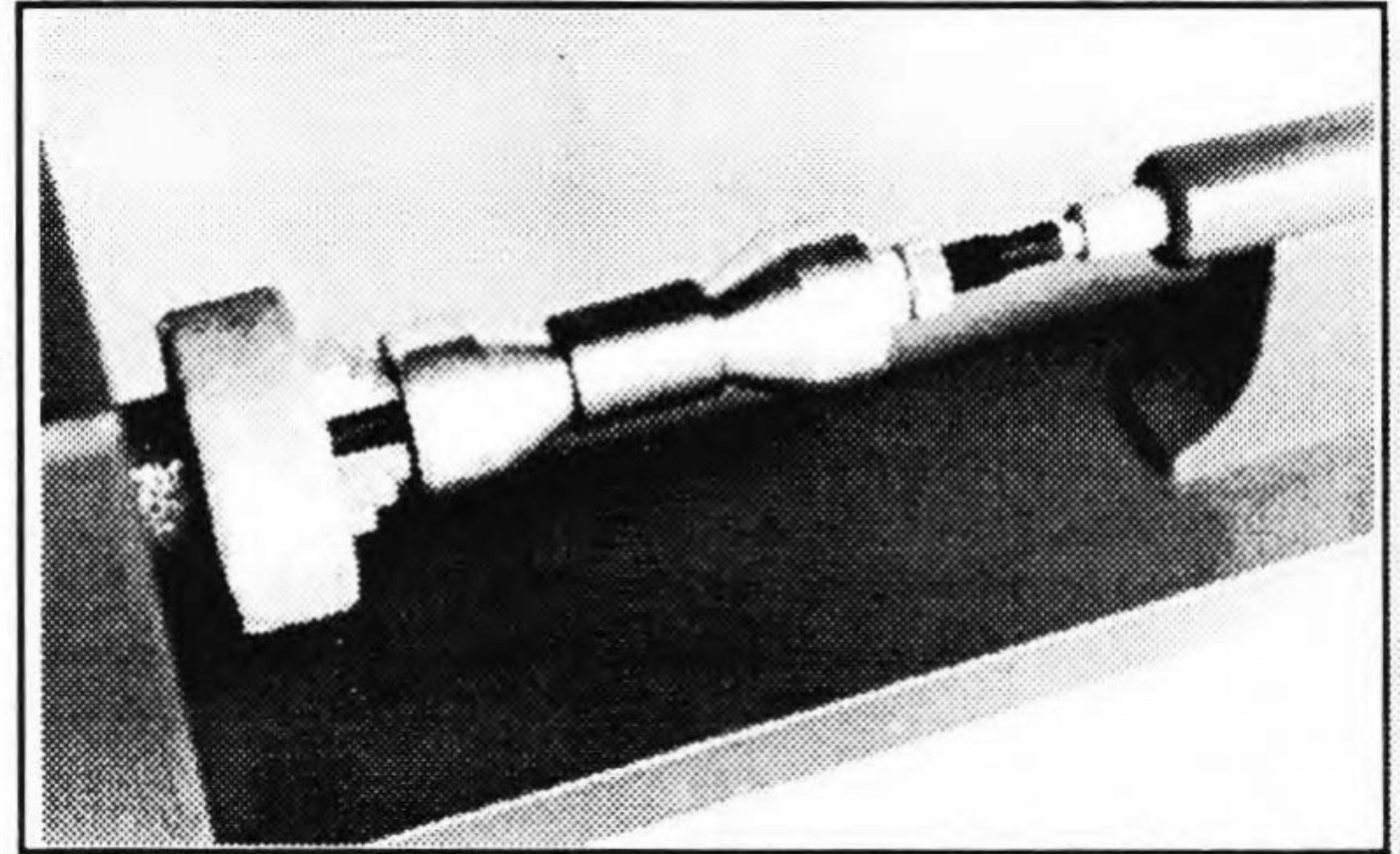


No. 1564 BUSHING O.D. TURNING FIXTURE

FAST - EASY TO USE

FOR SOLVING THOSE SPECIAL BUSHING PROBLEM'S USE IN YOUR LATHE. PICK CORRECT BUSHING I.D., INSTALL ON FIXTURE, TIGHTEN NUT, AND LOCK NUT SNUG. SLIDE TAIL STOCK TO FIXTURE USING LIVE BALL BEARING CENTER OR COMM. END BALL BEARING SUPPORT MIKE HOUSING BUSHING BORE. TURN BUSHING. .003 LARGER THAN BUSHING HOLE. INSTALL BUSHING. IF I.D. IS TOO SMALL, REAM TO DESIRED SIZE.

S.T.D. TOOLING IS FOR 3/8 I.D. BUSHINGS AND LARGER. 1/4" VERSION IS AVAILABLE (NO. 1565).

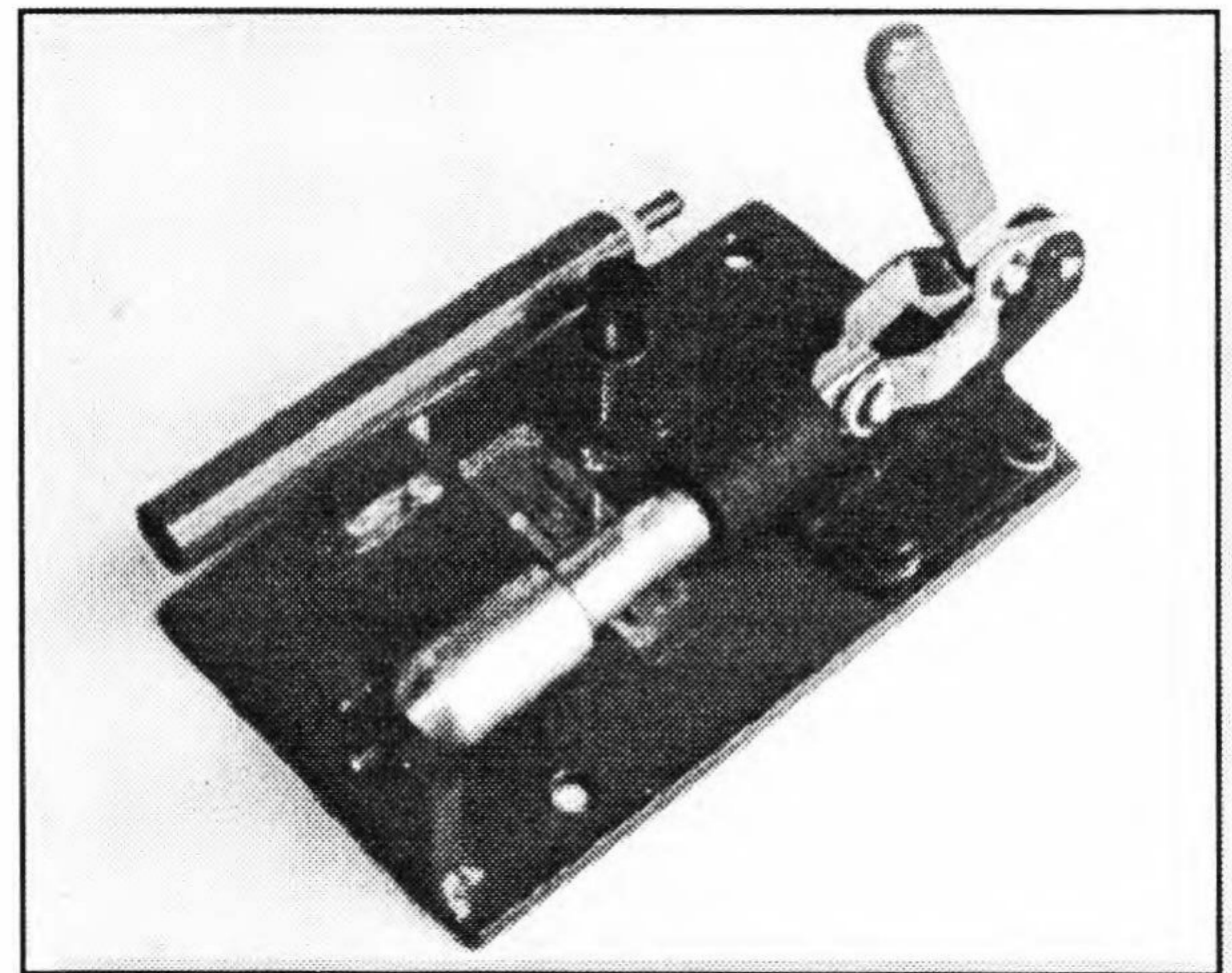


1575 SNAP RING INSTALLATION TOOLS

* VOLKSWAGEN 12 VOLT SNAP RING INSTALLATION TOOL

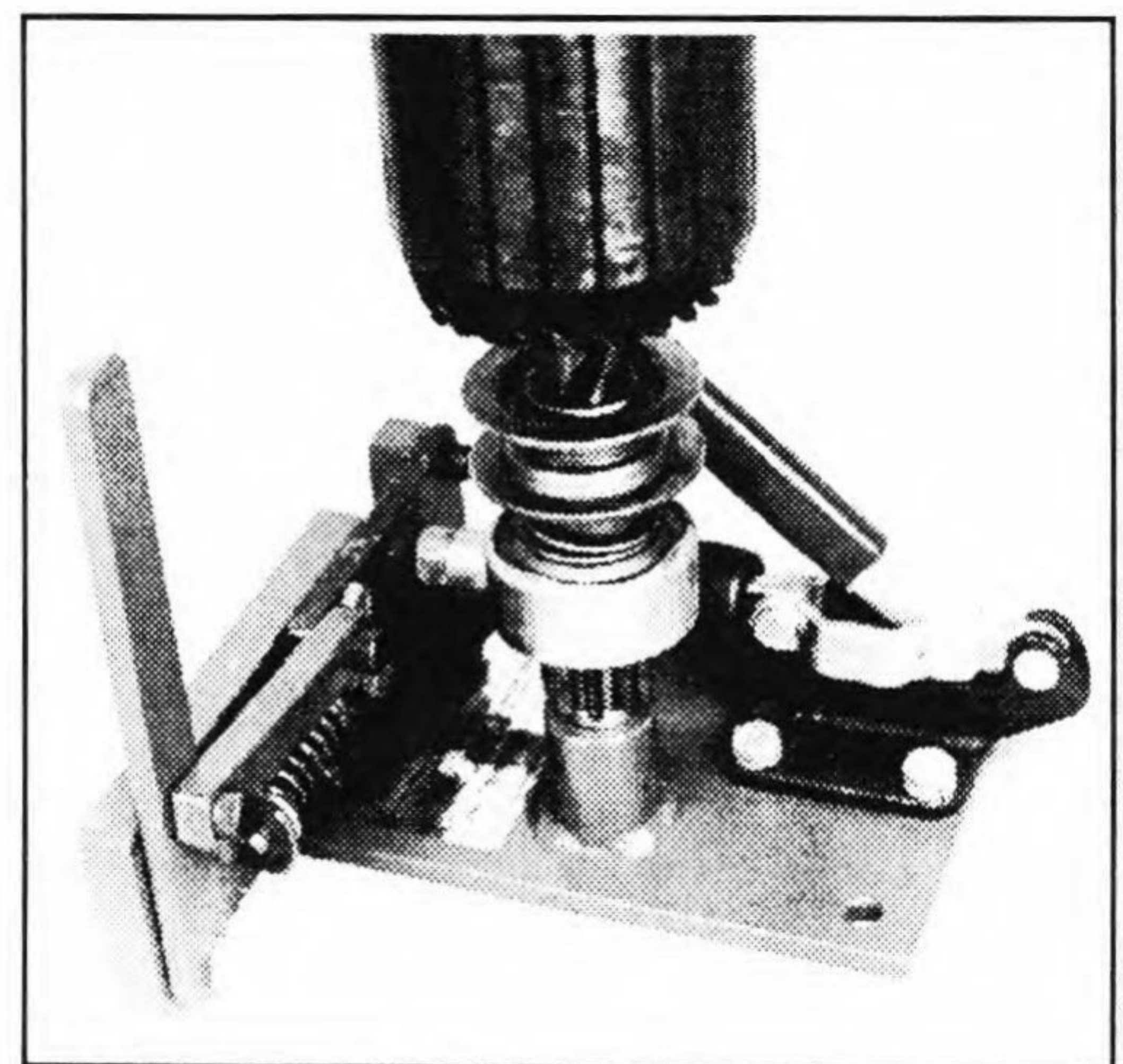
1576 DATSUN AND BOSCH SHAFT SIZE 490-520

1577 NIPPONDENSO (JOHN DEER & M 50 LUCAS)

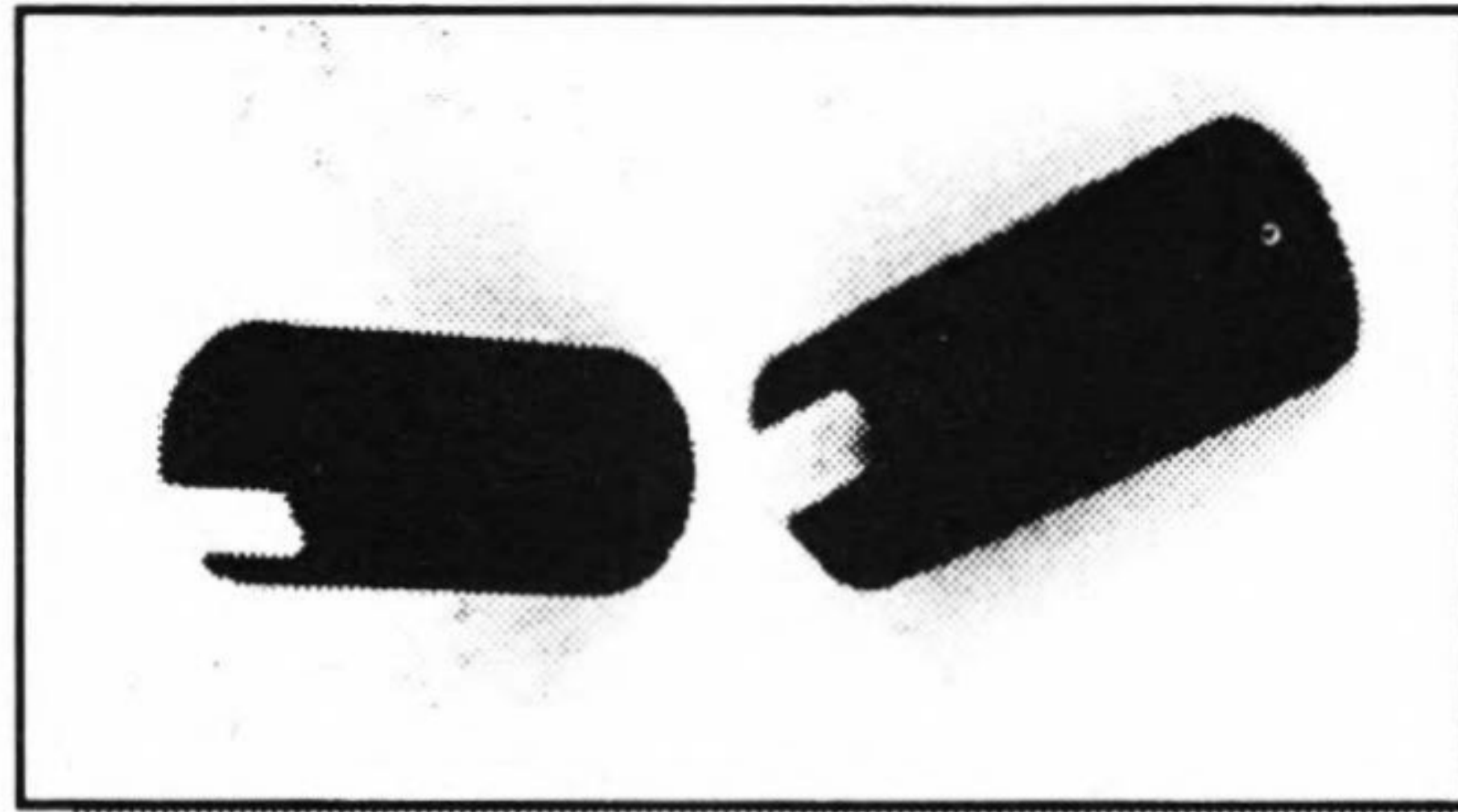


1578 SNAP RING REMOVER

- * NIPPONDENSO (JOHN DEER & M50 LUCAS).
- * REMOVES RING FAST AND EASY.
- * EFFICIENT.

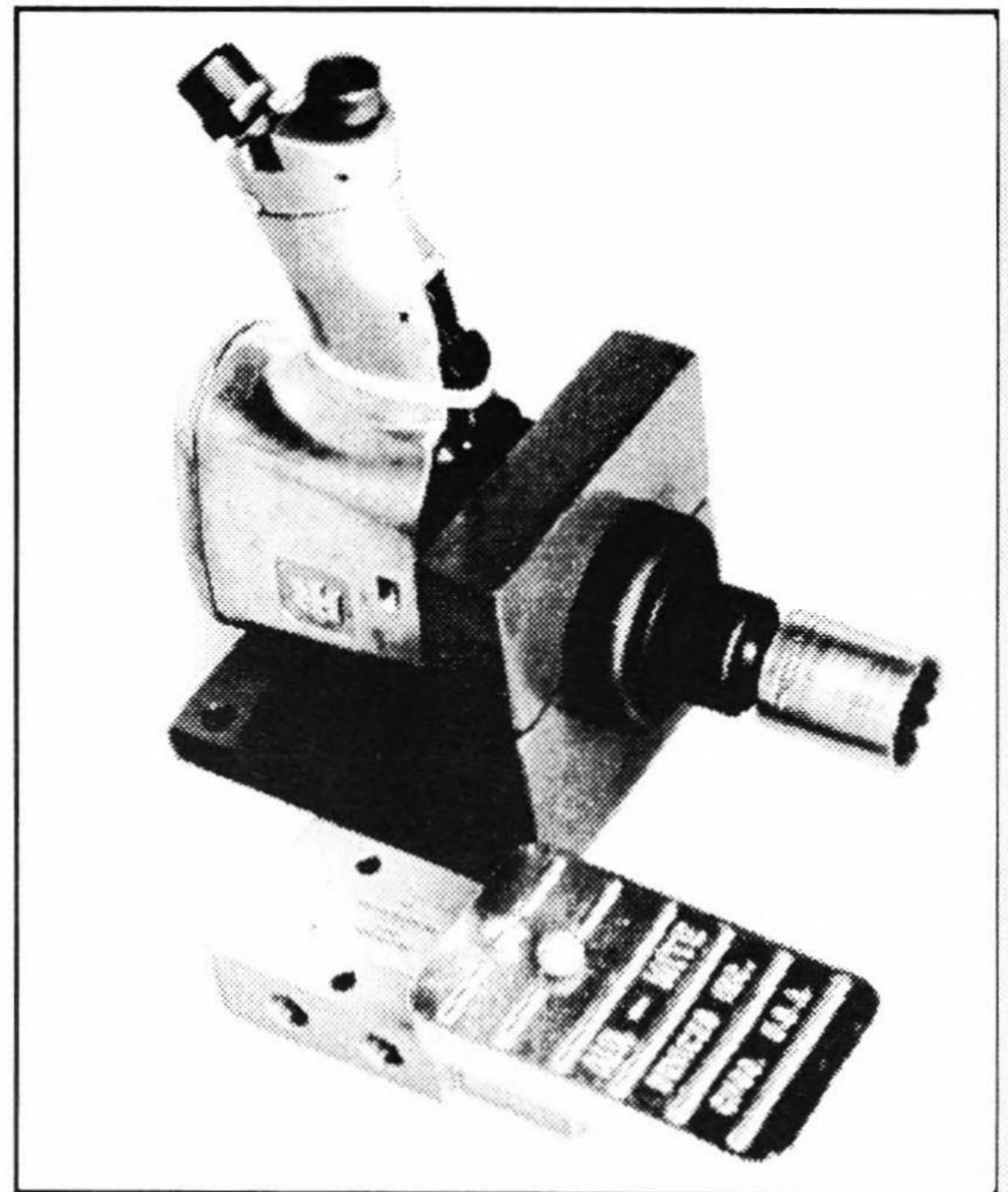


2000 HONDA, TOYOTA, AND OTHERS GEAR REDUCTION STARTER DRIVE SPRAGUE LOADING TOOL



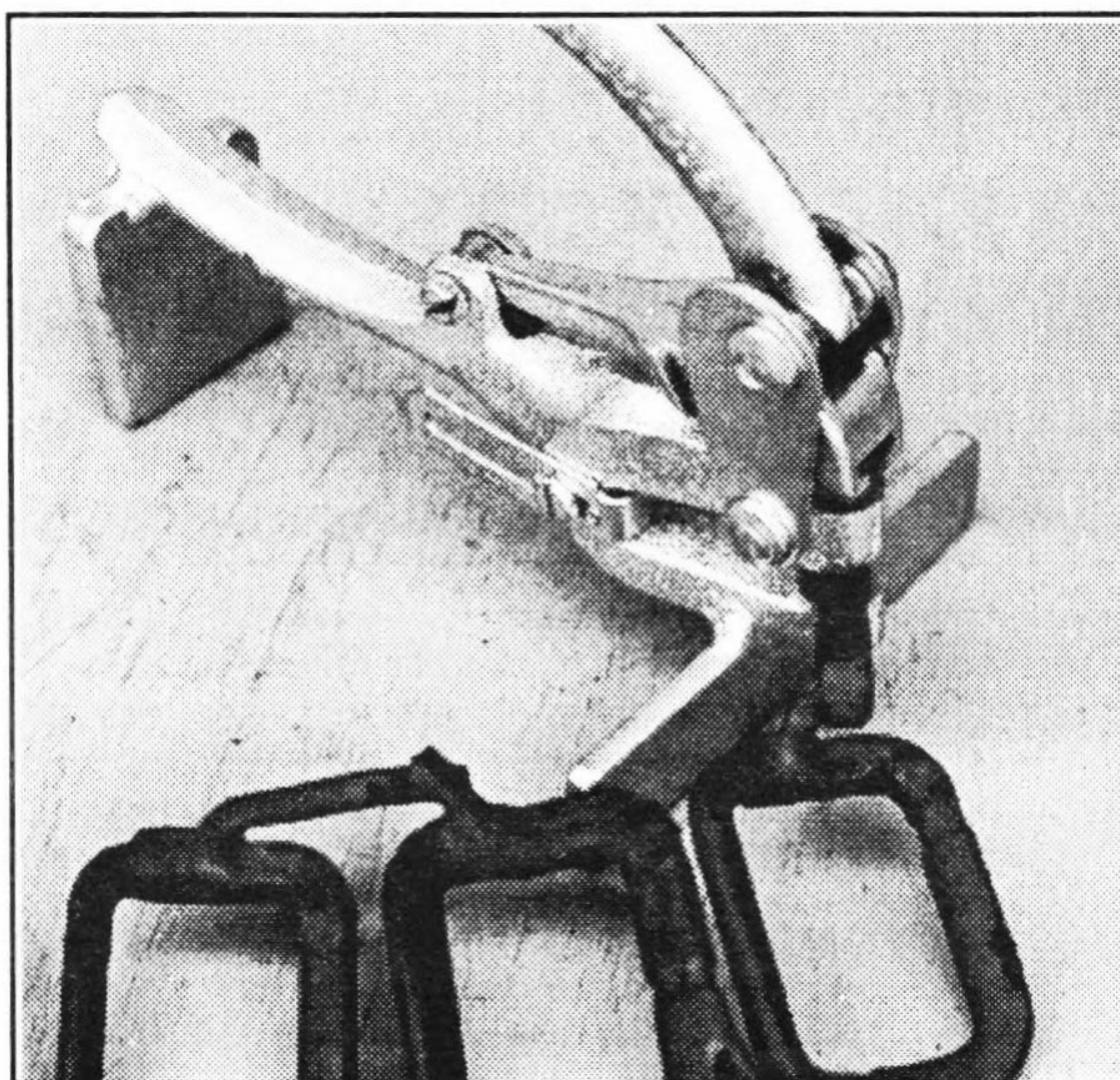
2001 HEAVY DUTY ALTERNATOR PULLEY NUT REMOVAL AND INSTALLER

- * HEAVY DUTY INGERSOL RAND IMPACT, COMPLETE WITH FOOT VALVE AND AIR LINES.
- * INSTALLS & REMOVES PULLEY NUTS SIMPLE AND QUICK.
- * PRODUCTION LINE TOOL.
- * LONG LIFE OF GUN AND VALVE.
- * RECOMMENDED WITH REGULATOR, WATERTRAP, AND OILER.
- * ACCESORIE 803-1 MUST BE INSTALLED BEFORE FOOT VALVE.
- * USE MARVEL MISTERY OIL OR AIR TOOL OIL.



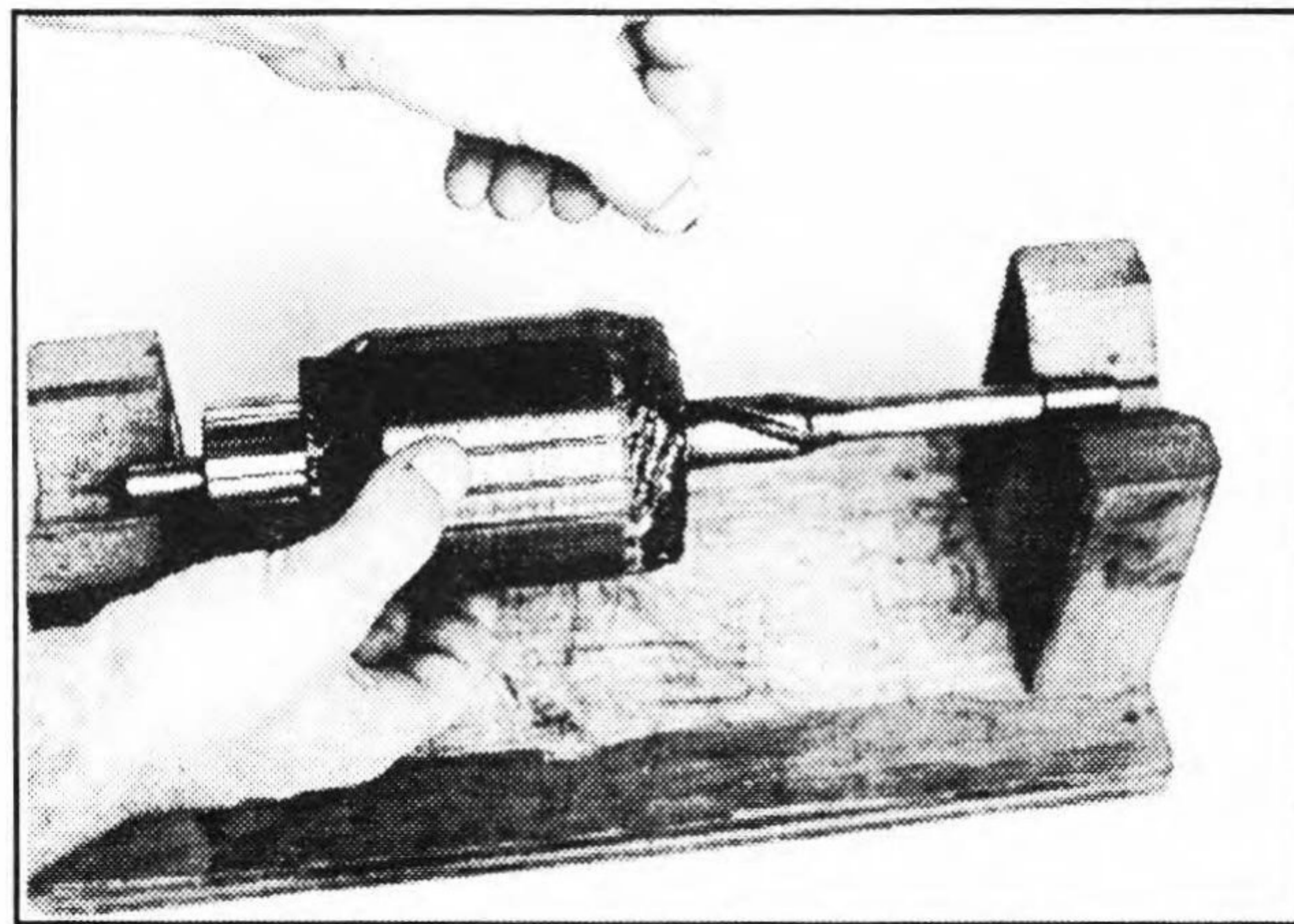
2005 COPPER FIELD PUNCH TOOL KIT

- * PUNCHES HOLES IN STARTER FIELD COILS
REPAIRS
FIELD COILS, TERMINALS, OR FLAGS FOR
WIRE ENDS.
- * COMPLEMENTS A SPOT WELDER.
 - * MORE POSSIBILITIES.
- * IMPOSSIBLE TO DRILL COPPER.
 - * «SO PUNCH HOLES».

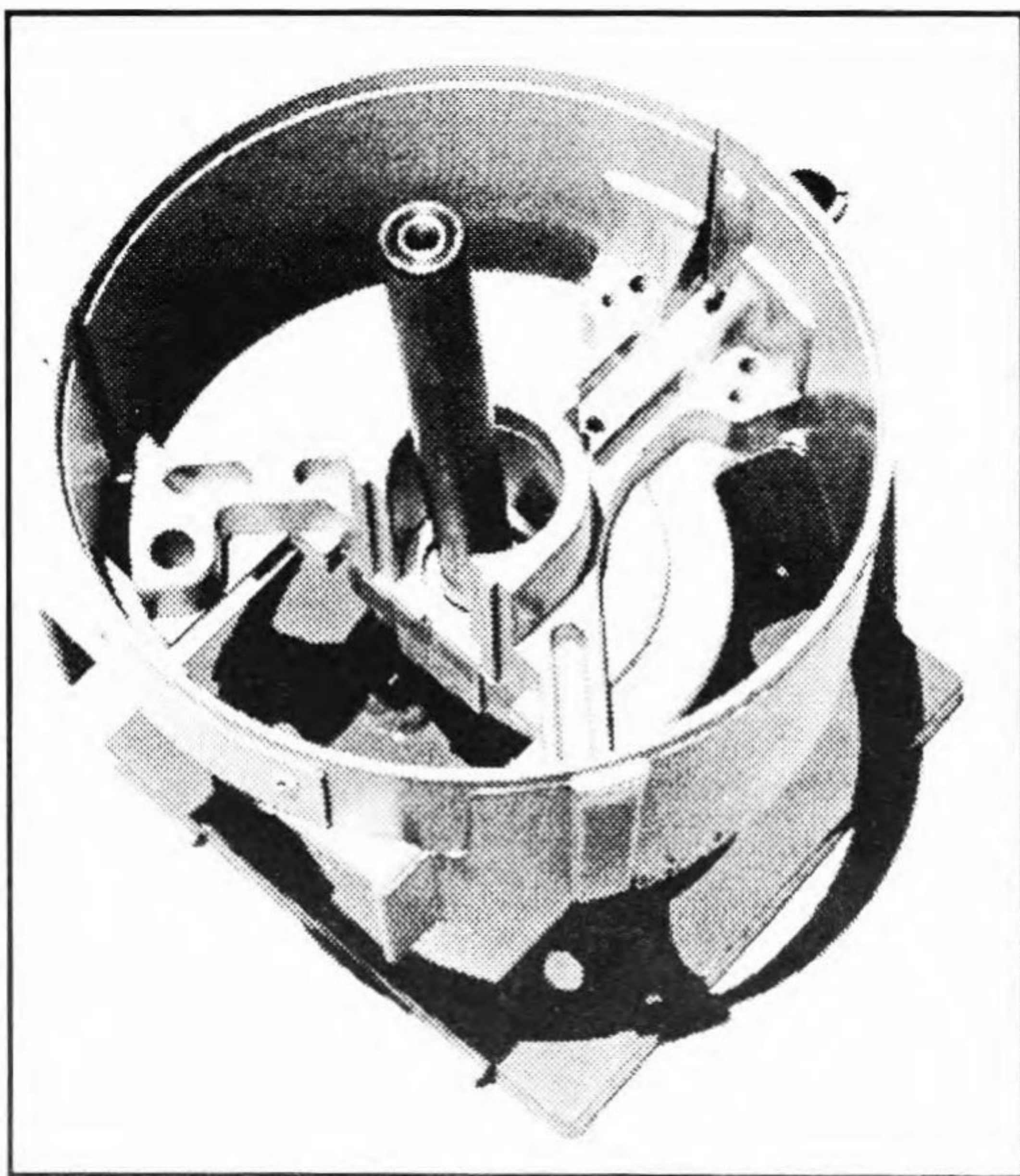


2006 ARMATURE BONDING MATERIAL

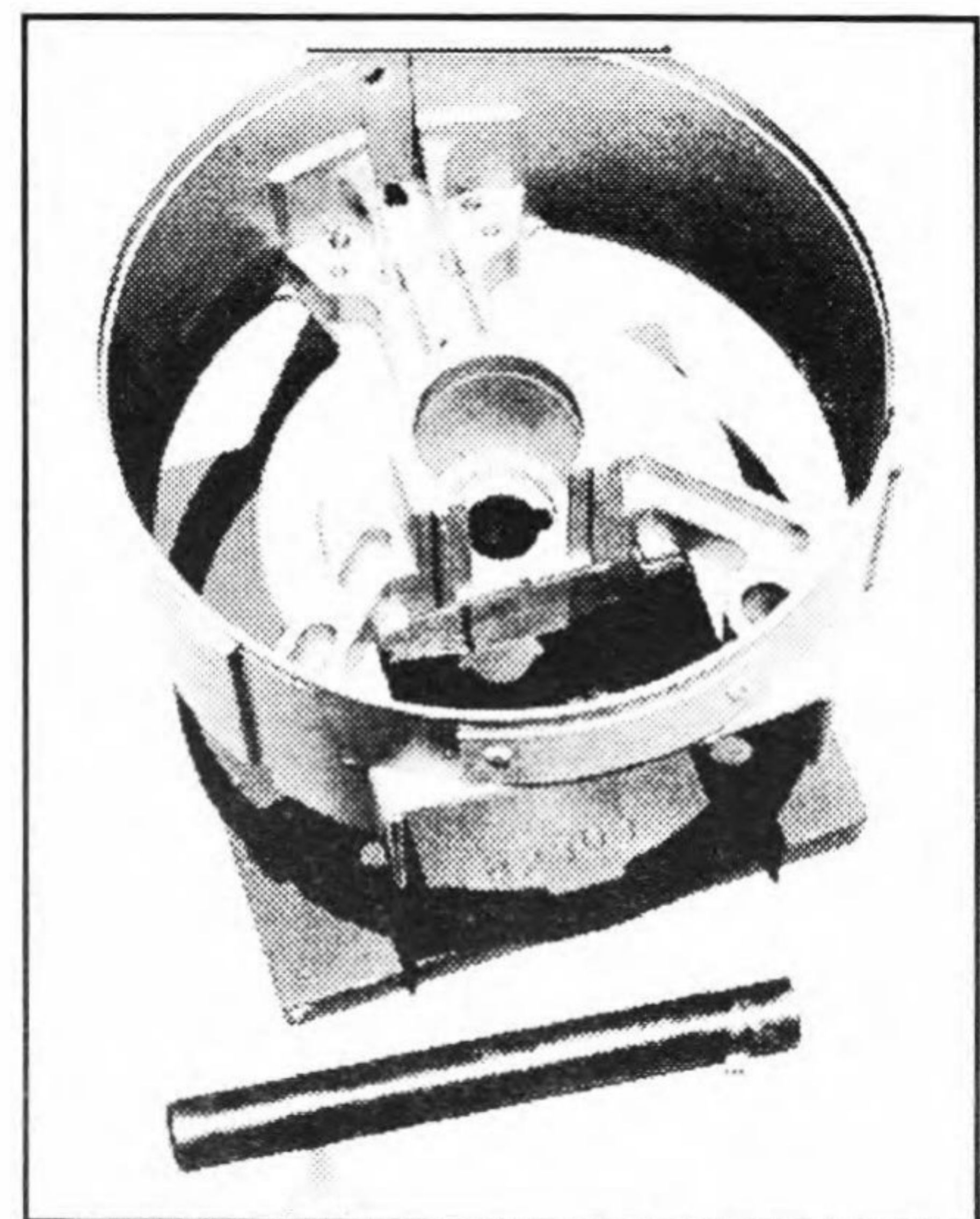
- * THIS MATERIAL IS ALMOST BULLET PROOF.
- * STAYS ON THE ARMATURE.
- * REPAIR MISSING END FIBERS.
- * LOCKING WEAK ARMATURE WIRES IN PLACE.
- * USE IN HIGH PERFORMANCE STARTERS TO KEEP ARMATURE WIRES IN PLACE.
- * REPAIR ARMATURES INSTEAD OF PURCHASINGS THEM.



2500 LEECE NEVILLE NEEDLE BEARING REMOVAL FIXTURES KIT



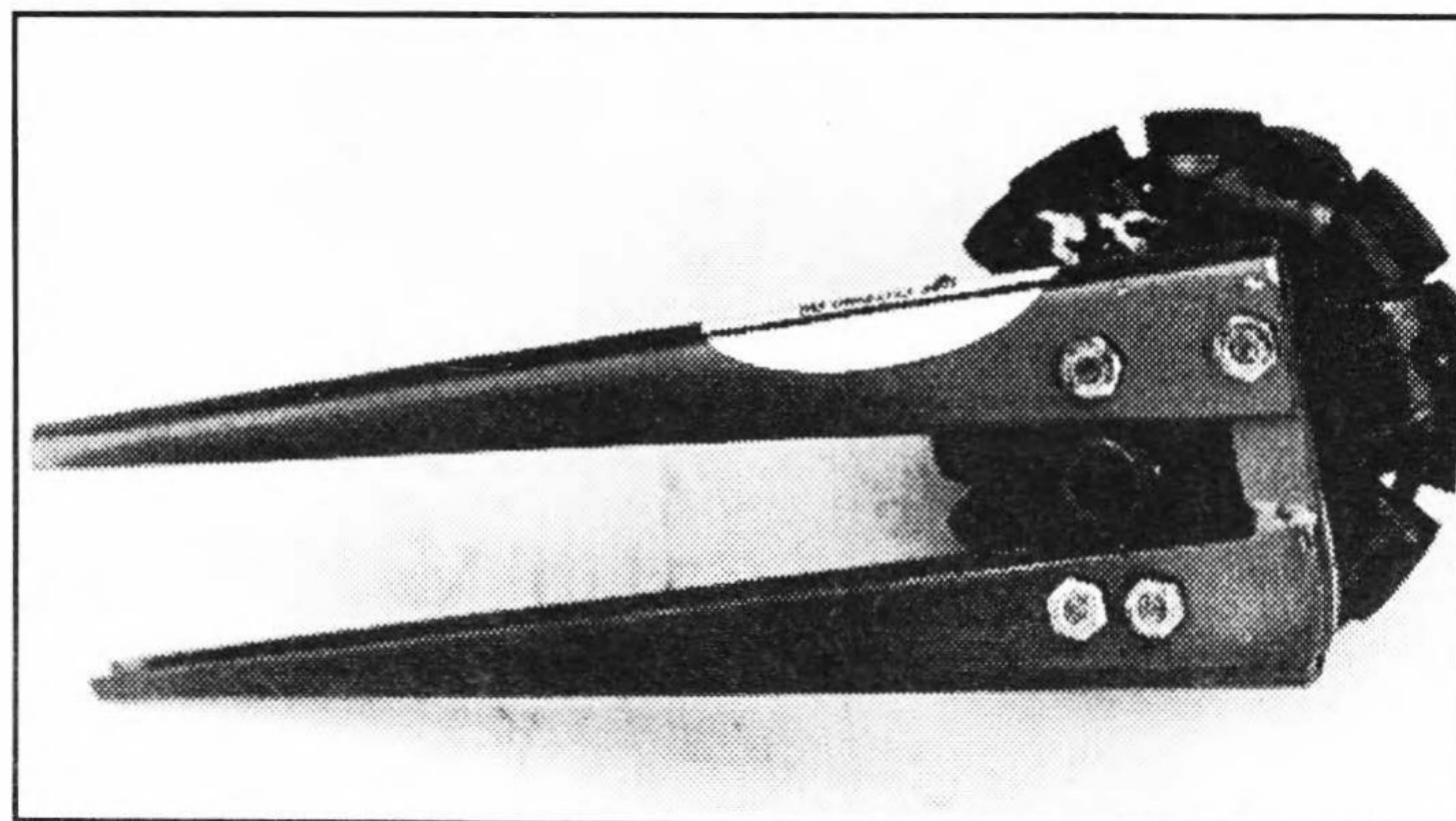
FAST BEARING REMOVAL
USE IN AN ARBOR PRESS
SOLVES AN AGGRAVATING PROBLEM



ROTOR AND ARMATURE THREAD CHASER'S NO. 2566 TO 2576

**DOMESTIC PASS = INDUSTRIAL = FOREIGN & FOREIGN INDUSTRIAL. FAST, EASY, & SIMPLE
THREAD REPAIR.**

- 2566 BLUE = DELCO, FORD, PRESTOLITE, ETC.
- 2567 YELLOW = 1/2 X 20 OLD STYLE LEECE NIVELLE, DELCO, IND. OLD STYLE.
- 2568 GRAY= 5/8 X 18 LEECE NIVELLE JB2500 = DELCO 27 - SI - 200 = MOTOROLA
IDN. MOST POPULAR CURRENT IND. MODEL.
- 2569 RED = 12 X 1.5 MM DATSUN, HITACHI, VW GENERATOR & ALTERNATOR.
- 2570 GREEN = 14 X 1.5 MM BOSCH, HITACHI, ND, DATSUN, TOYOTA SMALL LUCAS.
- 2571 SILVER = 15 X 1.5 MM MITSUBISHI, DODGE, K. CAR, COLT 4D & EUROPEAN
ALTERNATOR.
- 2572 ORANGE = 16 X 1 MM SEV. MOTOROLA, PARIS RHON & MORE.
- 2573 GOLD = 16 X 1.5 MM LARGE LUCAS & OTHER JAPAN & EUROPEAN
ALTERNATOR.
- 2574 BLACK = 17 X 1.5 MM SEV. MARCHAL & OTHER JAPAN & EUROPEAN
ALTERNATORS.
- 2575 BROWN = 16 X 1.25 MM MOTOROLA & OTHER JAPAN & EUROPEAN ALTS.
- 2576 PINK= 14 X 1.25 MM JAPAN & EUROPEAN ALTERNATORS.





TOOL 3002-HD CS6 NIPPONDENSO & CS130 D STATOR REMOVER KIT

INCLUDES:

- 1.- MOUNT FOR HOLDING ALT. FOR REMOVAL OF BACK PLATE & REMOVAL OF STATOR. NO BROKEN BACK PLATE'S = EASY OF DISASSEMBLY (3003).
- 2.- NIPPONDENSO BACK PLATE PULLER. PULLS BACK PLATE WITH EASY & NO BROKEN END PLATE'S OR DAMAGED STATORS (3002).
- 3.- N.D. STATOR REMOVAL PLATES COVERS PULLING 90% OF N.D. ALT. STATORS AND 2 CHRY, ALTS. (BOSCH) (OTHERS AVAILABLE BY REQUEST).
- 4.- 1-CS130D STATOR REMOVAL PLATE (3002-D).

NOTE: STATOR INSTALLATION FIXTURE FOR CS130D PART NO. 3132 NOT INCLUDED IN THIS KIT.

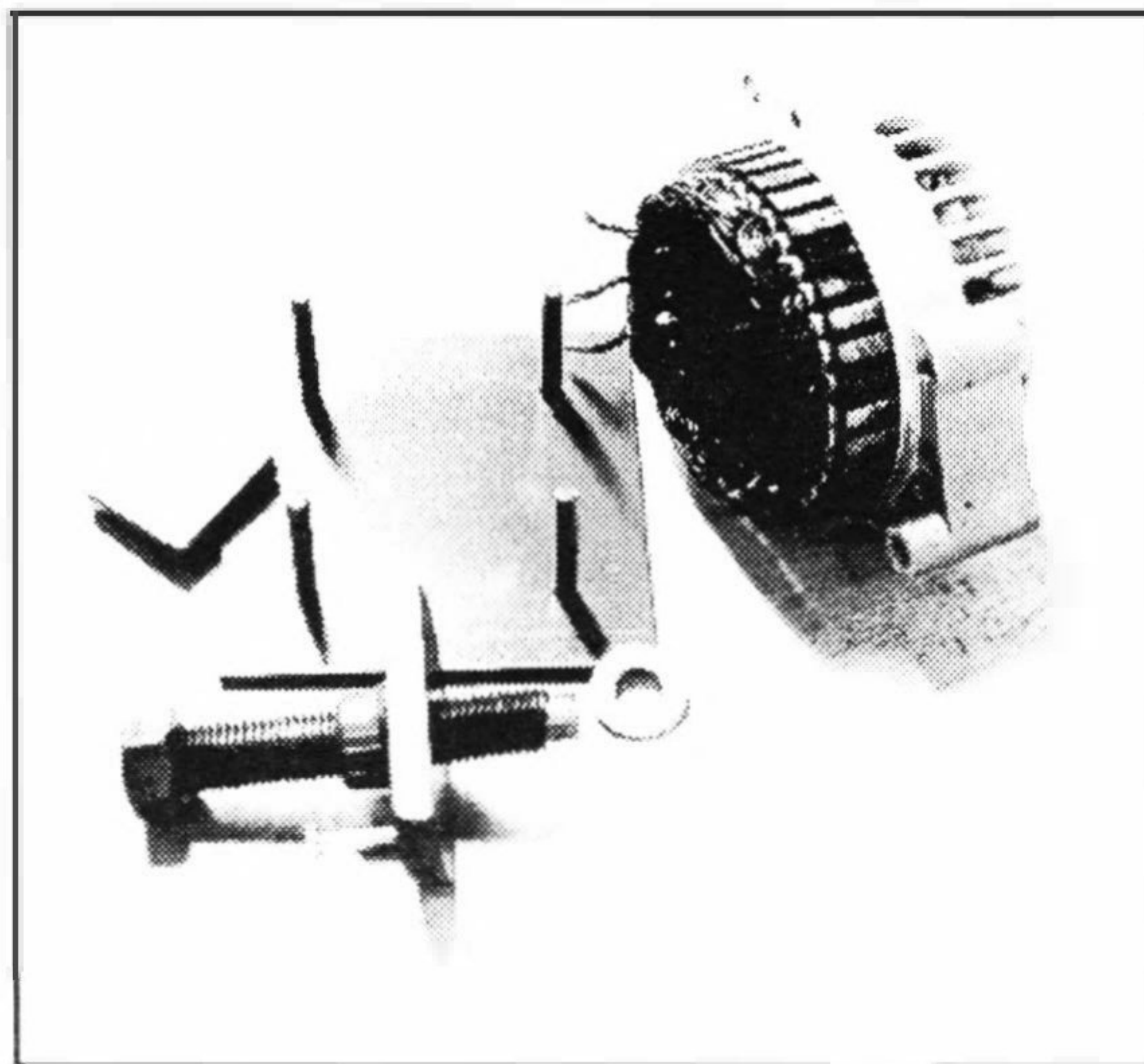


TOOL 3130 D KIT

CS 130 D KIT STATOR REMOVER AND
STATOR TO DRIVE HOUSING INSTALLATION
FIXTURE.

3131 ST. REMOVER FIXTURE

3132 ST. INSTALLATION



3133 PULLER W/CS 130 ADAPTOR

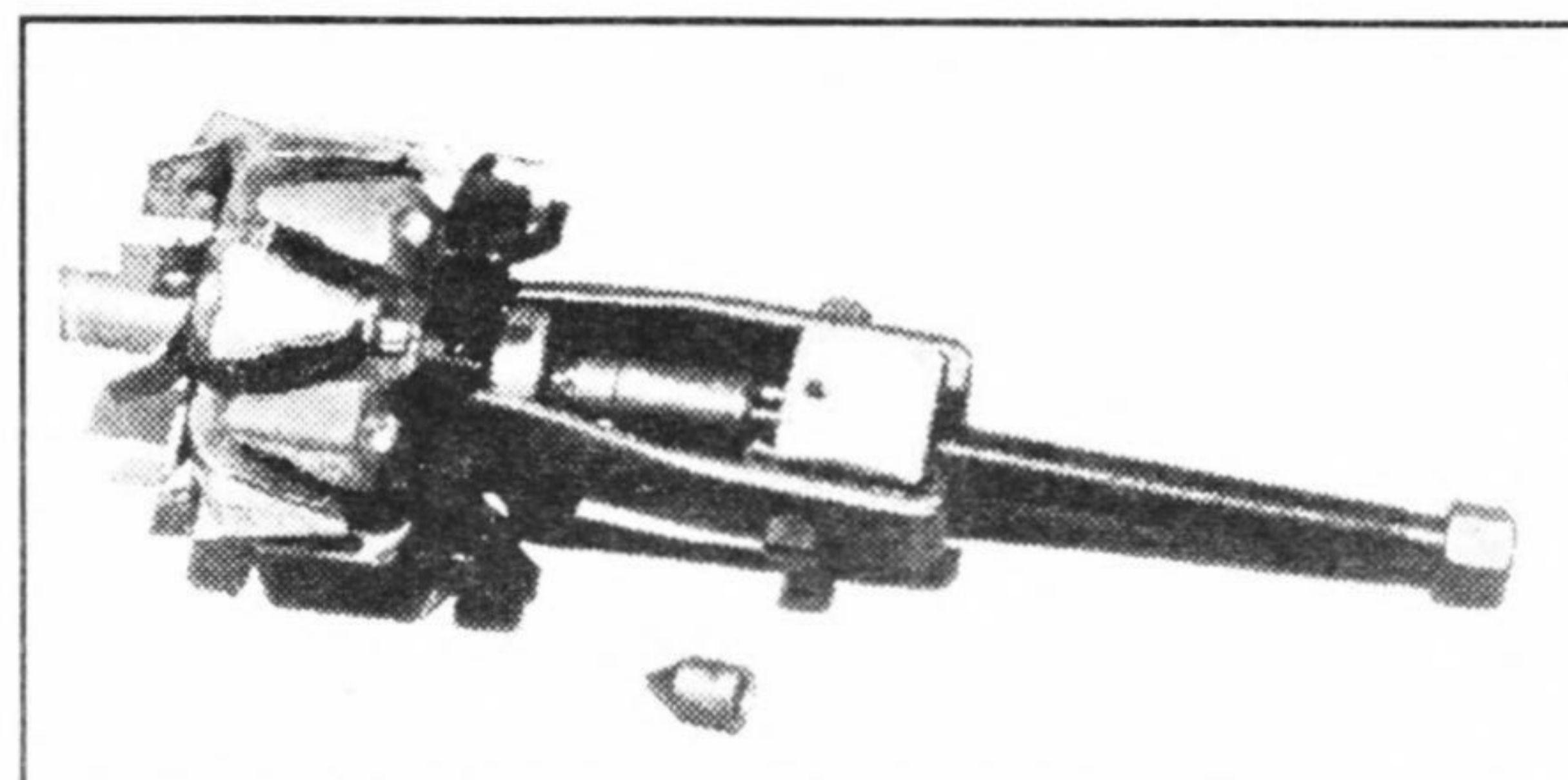
SLIP RING BEARING WITH 2 ADAPTORS.
A FLAT FOR CS 130 D AND A POINT
FOR 95% OF OTHER SLIP RING
BEARINGS.

3133-C CS 130 ADAPTOR ONLY

3133-P POINT ADAPTOR

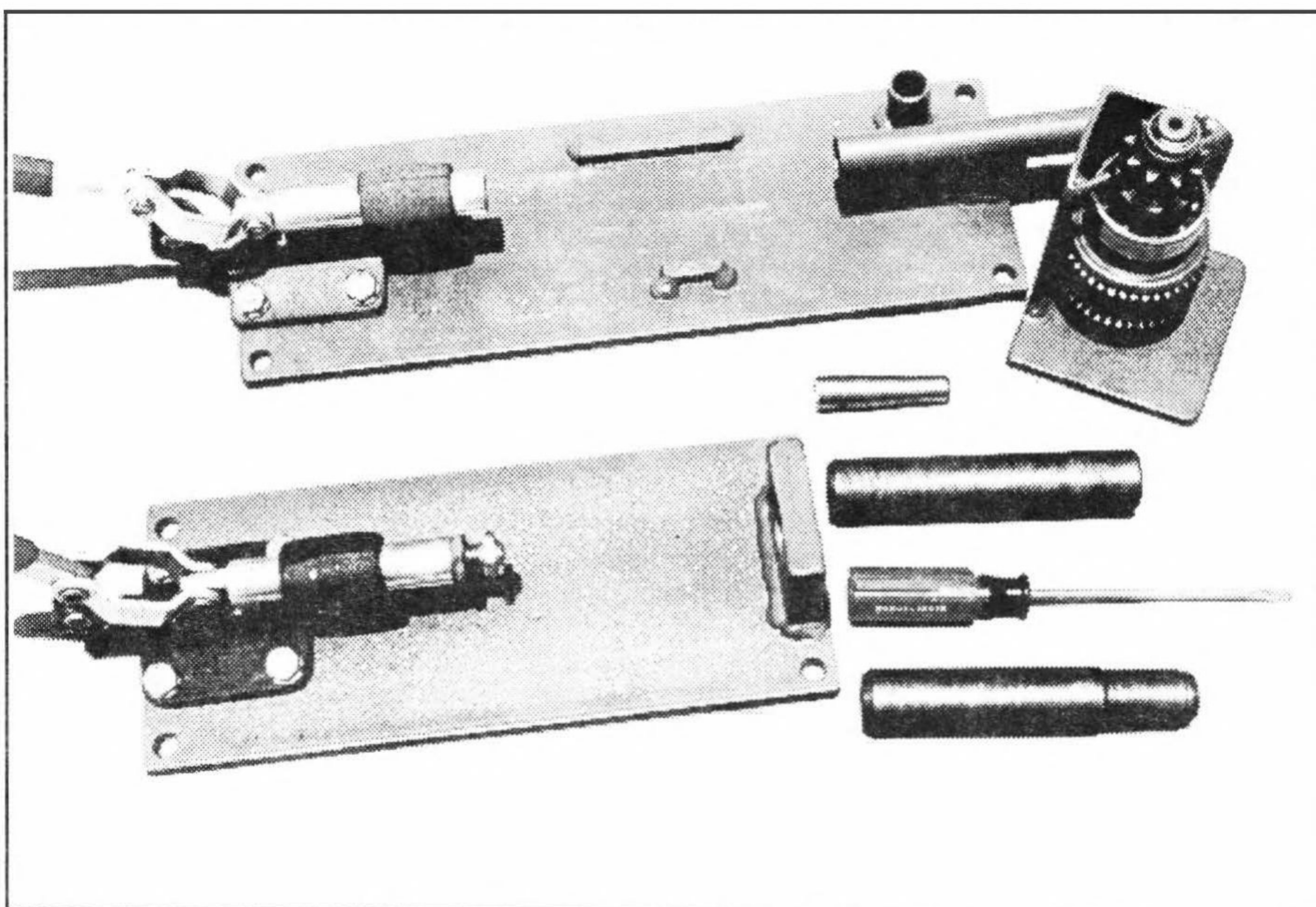
3133 PL PULLER ONLY

ADJUSTABLE FOR DIFFERENT SIZE
BEARINGS. PULLS 96% OF ALL
SLIP-RING BEARINGS.



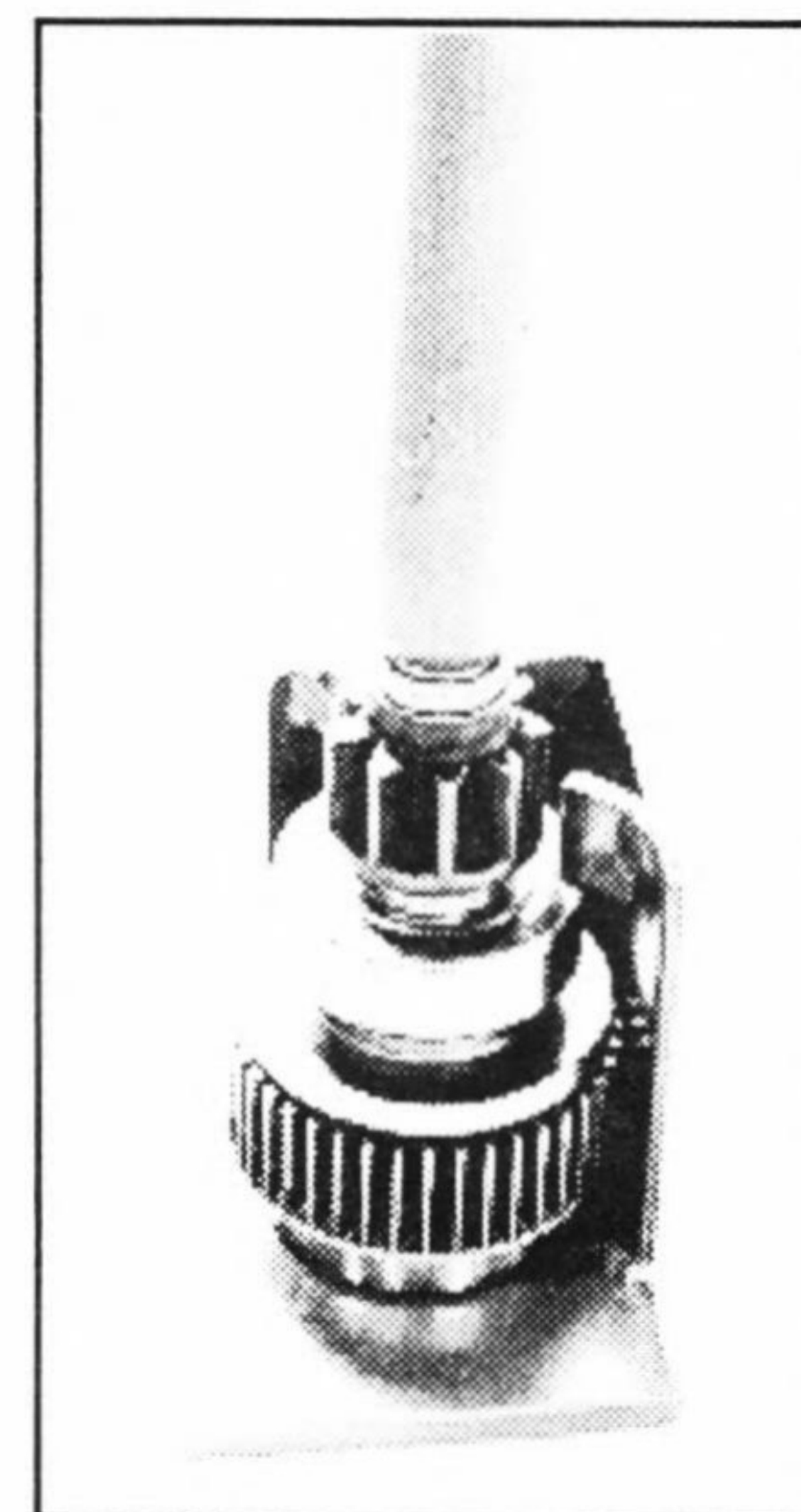
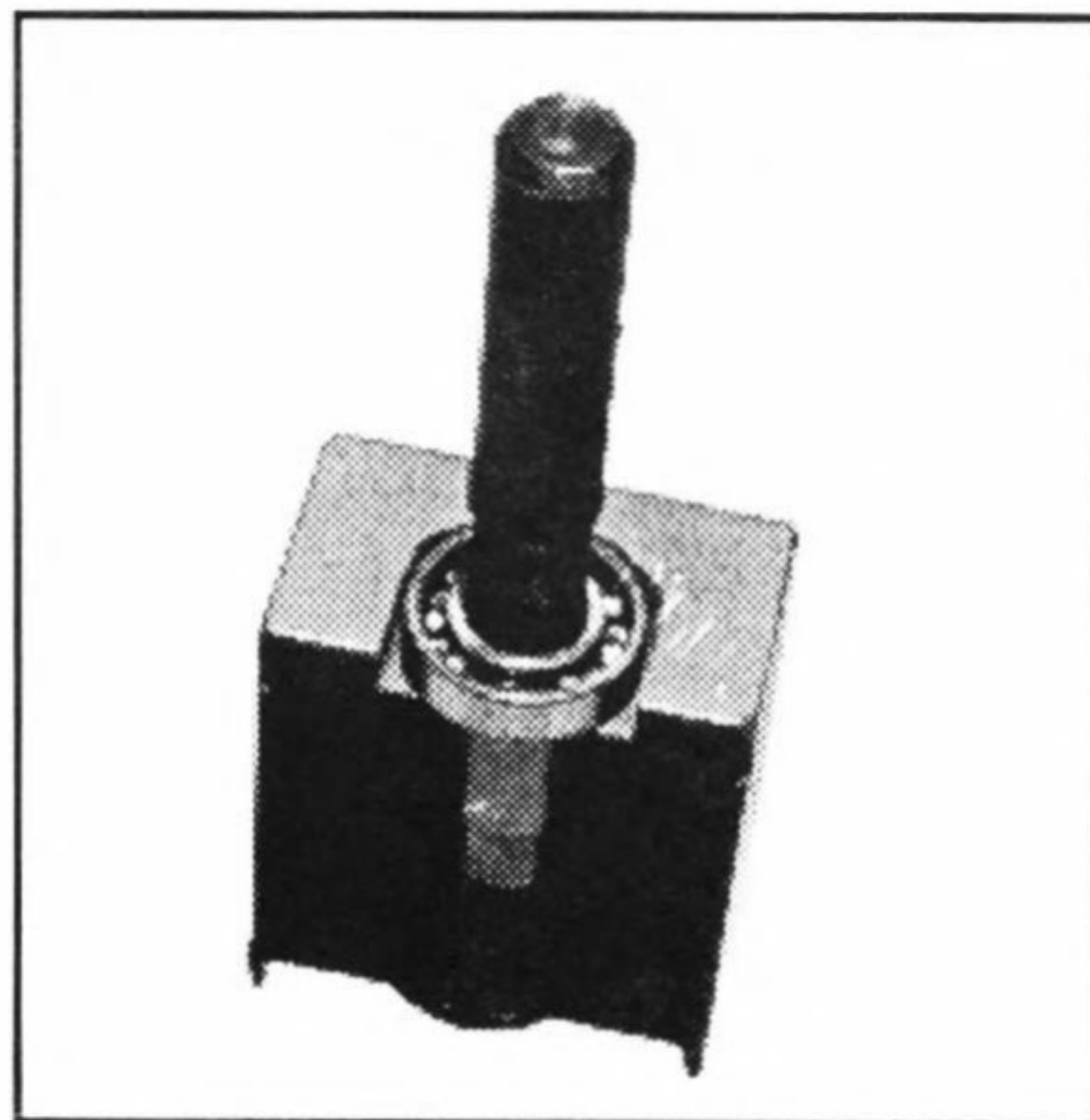
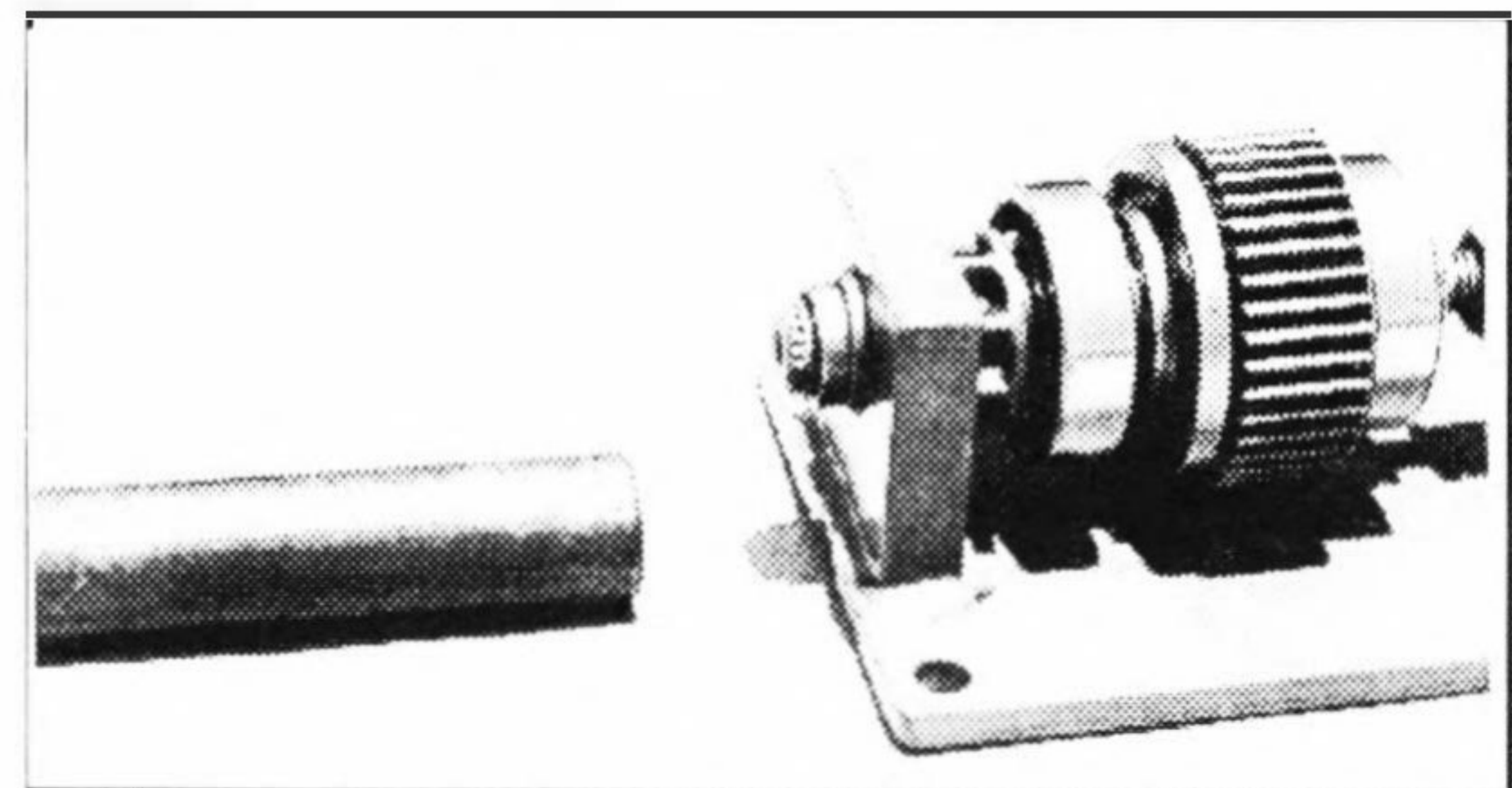
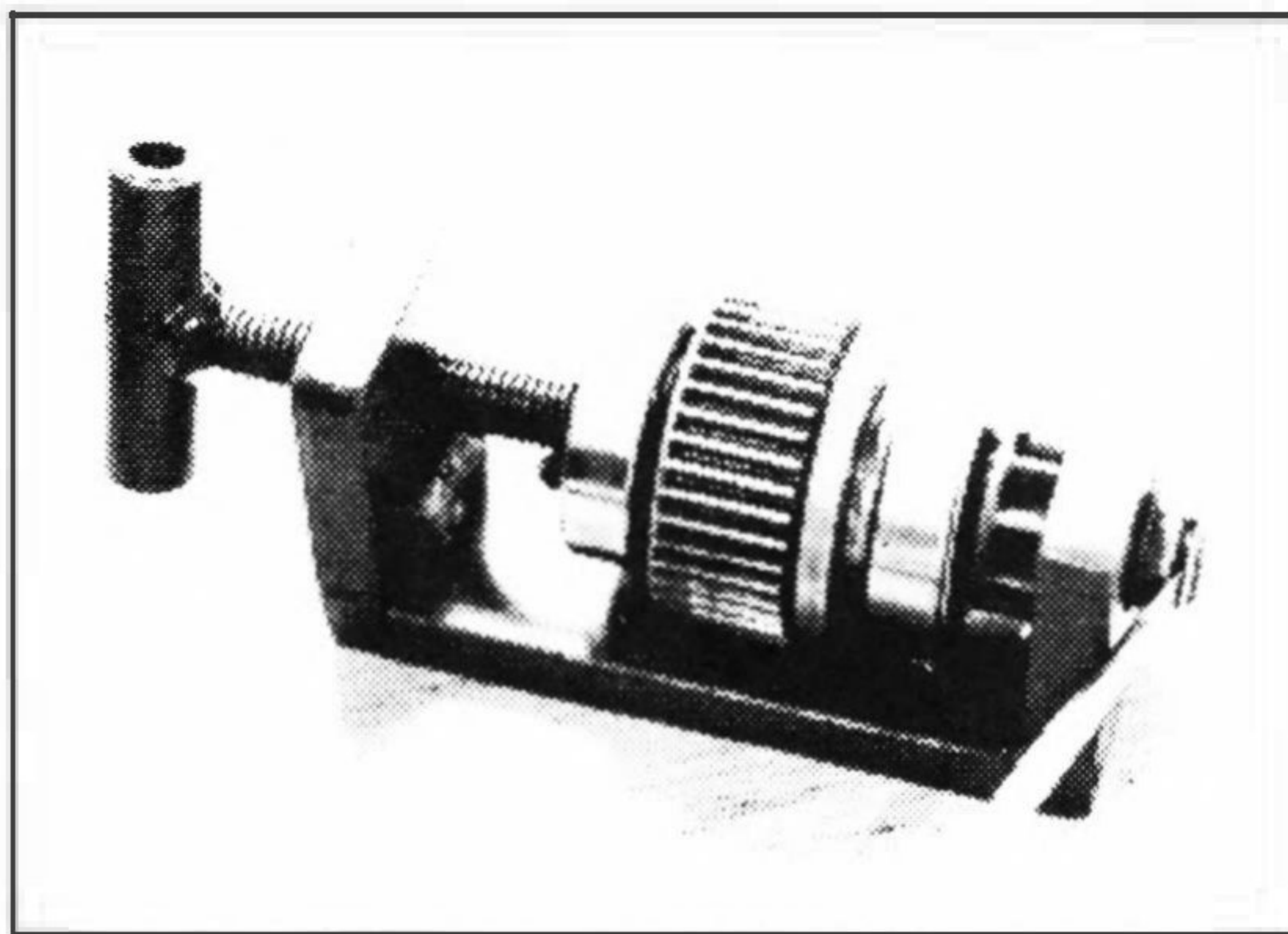
TOOL 3200

NIPPONDENSO GEAR REDUCTION STARTER DRIVE DISASSEMBLY & ASSEMBLY FIXTURES. THIS FIXTURES MAKE DISASSEMBLY OF THE NIPPONDENSO STARTER DRIVE A SNAP. FOR DRIVE SPRAGE SERVICE OR DRIVE GEAR REPLACEMENT.



N. D. STARTER DRIVE DISASSEMBLY & ASSEMBLY TOOLING (AND OTHERS)

3220 KIT	\$ 200.00
3220-1 COMPRESSION FIXTURE	\$ 65.95
3220-2 LOCK CUP KNOCKER SHAFT (HEAT TRATED)	\$ 40.00
3220-3 SPRAG BEARING SUPPORT	\$ 60.00
3220-4 BEARING PUSH OUT SHAFT IS ALSO WIRE LOCK CUP SEATING. TWO TOOLS IN ONE. HEAT TREATED	\$ 50.00





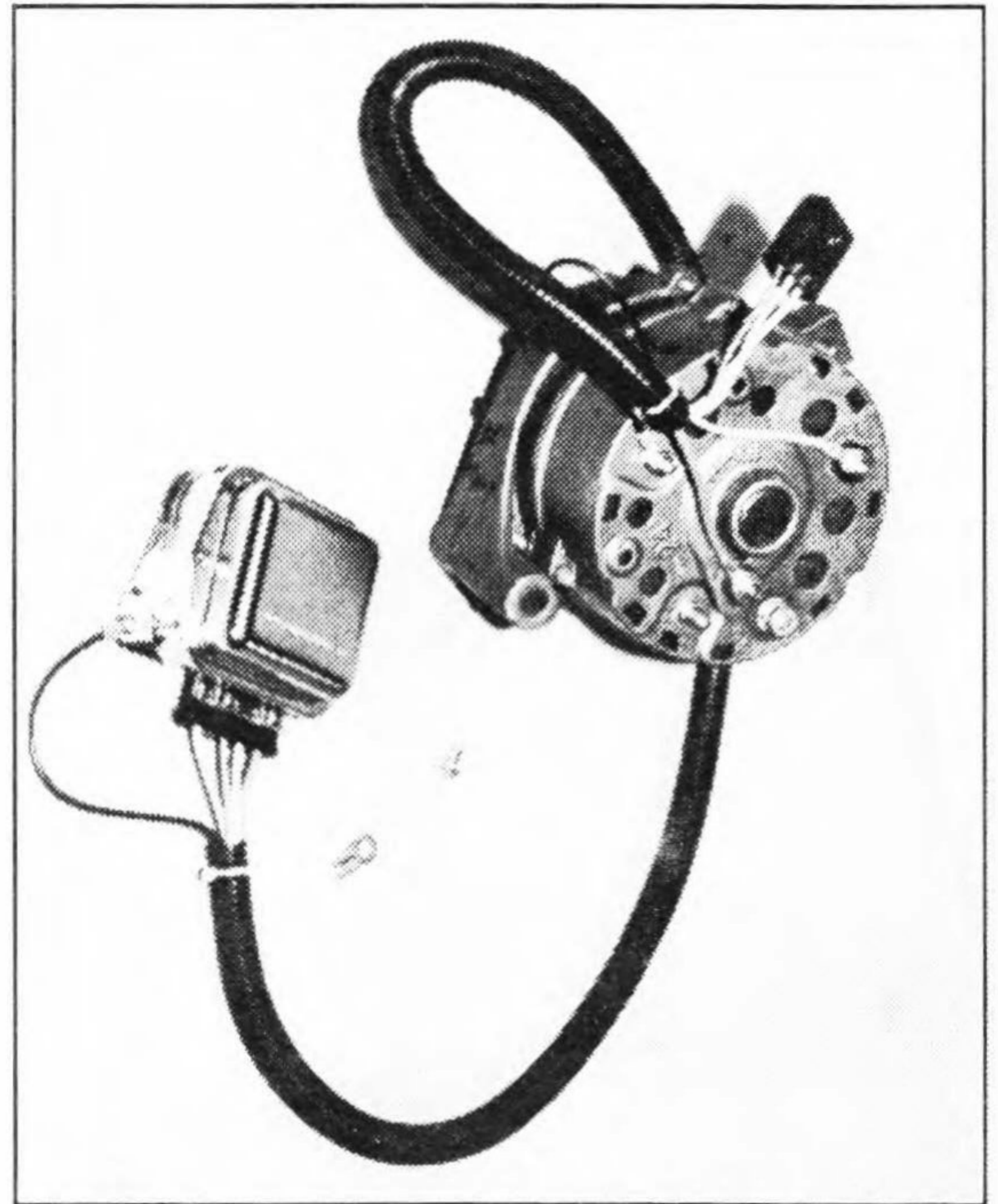
THE SUCCESSFUL SOLUTION FOR THE IAR

***Is Your IAR
Alternator & Wiring***

BURNED OUT?

***Order Our REPLACEMENT KIT
For FORD IAR ALTERNATORS***

**This Professional Wiring Harness
is an Easy Installation Kit**



1 KIT \$29.95 ea.

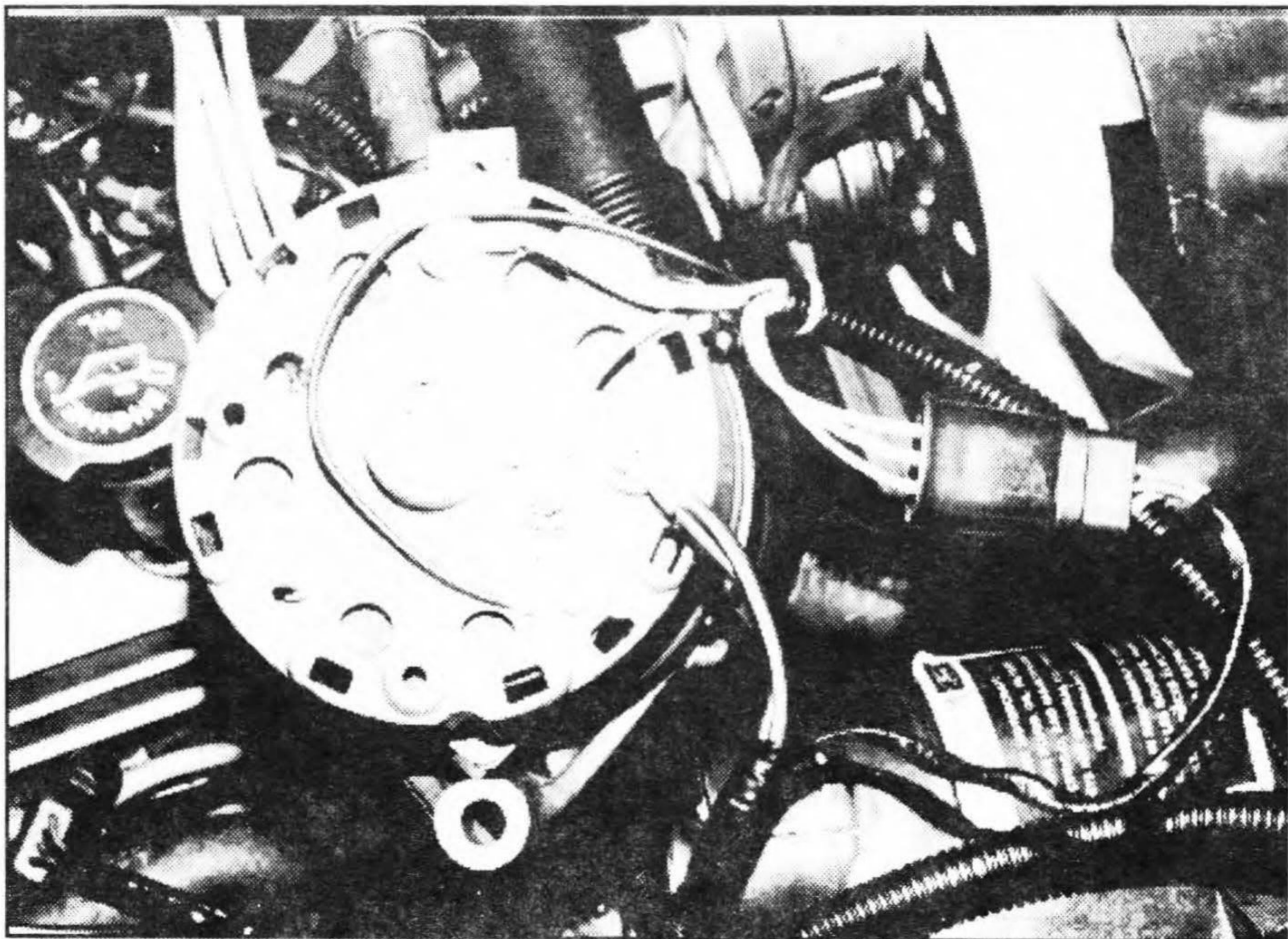
3 KITS \$27.95 ea.

5 KITS

10 KITS

\$26.95 ea

\$24.95 ea





HAS THE IAR ALTERNATOR COST YOU DOLLARS = TIME + AGGRAVATION & LOSS OF CUSTOMER CONFIDENCE

HERE IS THE SOLUTION, IT'S NEAT, HAS A PROFESSIONAL LOOK & EASY INSTALLATION. WILL GIVE YOU & YOUR CUSTOMER CONFIDENCE IN YOUR INSTALLATION.

A PROFESSIONAL WIRING HARNESS, SO YOU CAN USE THE OLD STYLE FORD ALTERNATOR WITH AN EXTERNAL REGULATOR, PLUGS INTO EXISTING ALTERNATOR WIRING FOR WIRING LIGHT OPERATION.

- * « NOTHING TO IT »
- * « EASY AND SIMPLE »
- * « SOLVES THIS SYSTEM'S PROBLEMS »
- * « GIVE YOU & YOUR CUSTOMER CONFIDENCE »

YOU WILL MAKE MORE MONEY PER INSTALLATION WITHOUT THE HASSLE

STOP FORD IAR BURNOUTS CREATE PROFIT

REPLACE FORD IAR ALTERNATOR WITH RELIABLE EARLY FORD ALTERNATOR.

USE OUR EASY TO INSTALL WIRING KIT AND AN EXTERNAL REGULATOR.

IAR WIRING KIT

LIST PRICE

JOBBER PRICE

REBUILDER PRICE

\$ 98.85

\$ 59.90

\$ 29.95

RECOMMENDED INSTALLATION CHARGE = \$ 198.00

QUANTITY DISCOUNT AVAILABLE

**AUTO ELECTRIC ENGINEERING**

1604c South Waverly Place Melbourne, Florida 32901

PH.(407)727-1378

FAX.(407)951-1901

CHRYSLER

100	Chrysler Starter Assembly Tool Kit	\$ 1,195.00
101	Chrysler Starter Gear Box Assembly Tool (only)	\$ 887.00
105	Chrysler & Delco Alternator Drive Housing bearing Shoulder machining fixture. For use when bearing failed & pulley spacer area was distorted beyond use for 203 bearing.	\$ 231.60
111-1	Back Plate Shimming Gauge for Gear Reduction Starter Chrysler.	\$ 30.95
114	Chrysler Back Plate Burr Removal Tool Kit	\$ 195.80
114-1	Cutter & Pilot	\$ 131.75
114-2	Cutter	\$ 104.75
114-3	Pilot	\$ 35.60
114-8	Toggle Clamp	\$ 80.00
130	Chrysler Alternator Through Bolt Countersink	\$ 79.95

MISCELLANEOUS

01	Shaft O.D. Knurler Extra Heavy Duty	\$ 98.85
02	Alternator drive end bearing boss I.D. Knurler 203 and large Bearing.	\$ 165.00
02-200	Alternator Drive End Bearing Boss I.D. Knurler 200 to 203 Bearing.	\$ 190.75

DELCO

99-5MT	Drive Housing Qualifing Fixture.	\$ 220.00
99-10MT	Drive Housing Qualifing Fixture.	\$ 220.00
00	Delco Lever Pin Removal & Replacement Fix.	\$ 59.95
02	Delco Starter Pad Mount Drive Housing Measuring For Matching a Rebuilt Starter To Customers Starter Core. For proper fit to engine. <u>New Desing</u> Measures Most 5MT Starters & Old Style 4 1/2" Cadillac, Chev., Olds, Pontiac, etc.	\$ 260.85
03	Delco Ford Bushing <u>Bore</u> Gauge Go-No-Go Heatreated	\$ 94.00
04	8 & 10 MT & & 25 MT Delco Starter Brush Installation. Tool (Hand Held).	\$ 25.40
05	Delco 10MT Starter Assembly Rack <u>NEW DESING</u> Holds six starters for assembly.	\$ 110.20
06	5MT Assembly Rack <u>Holds</u> Six Starters.	\$ 110.20
07	Delco Starter Brush Installation Fixture Very Fast remove & replace all 4 brushes at once.	\$ 575.00
07-1	1 Arm Support for Cordless Drill.	\$ 85.00
07-2	2 Arm Support for Cordless Drill.	\$ 125.00
07-3	Bra for Hitachi Cordless Drill.	\$ 30.00
07-4	Bra for AEG Cordless Drill.	\$ 30.00
09	40MT Starter Disassembly & Assembly Station.	\$ 295.00
10	Delco Brush Spreader Cone-Durable Aircraft Aluminium T6	\$ 24.95
10 5MT	5MT Delco Brush Spreader Cone.	\$ 24.95
14	Delco Drive Housing Closed Nose Bushing Driver Extra Long.	\$ 24.90
15	CS Series Rear Bearing Positioning Spacer Tool <u>«HEAT TREATED»</u>	\$ 45.00
19	Delco CS Series Complete Kit (515 Included)	\$ 130.00
20	Delco Starter Drive Housing Broken Through Drilling Fixture.	\$ 325.00
21	5MT Brush Loading Fixture <u>Very Fast</u> . All Brushes at once.	\$ 485.85
22	5MT Hand Brush Loading Tool. The First Durable 5 MT\$ 49.95 tool. The Strongest there is. Tear This Tool up & I'll give You another.	\$ 49.95
25	Delco Snap Ring Removal Fixture	\$ 165.00
25-2	Push Pull Clamp.	\$ 55.00

525-3	Push Rod for Above Clamp	\$ 35.00
525-4	Handle for Jaw Set.	\$ 20.00
525-5	Handle for Push Pull Clamp.	\$ 25.50
527	Delco Snap Ring Installation Tool.	\$ 160.00
527-1	Lock Ring Installation Push Clamp.	\$ 80.00
527-2	Push Pull Clamp Handle.	\$ 25.50
527-3	Push Pull Cone Shaft.	\$ 55.00
527-5	Delco Bullet.	\$ 24.10
530	Aluminum Closed Nose Cut Off Tool (Delco Starter)	\$ 173.20
530-1	Delco Dr. Ho. 530 Cutter.	\$ 100.45
531	Delco St. Dr. Ho. Arm. Thrust. Machining Cutter Kit 5MT & 10MT & 25MT Drive Housings.	\$ 135.45
531-1	Pass Car Pilot.	\$ 45.00
531-2	Diesel Pilot.	\$ 60.00
531-3	Drive Housing Support Stand.	\$ 30.00
535	Delco Starter Armature Thrust Lenght Shimming Fixture. Shimm Arm. befor Assy. & End Play is correct. ACE # S2564 - .032 = S 2475 - .065	\$ 110.00
542	210 & 265 Delco Starter Brush Reainers & Cone. For Field Case Assembly over Armature <u>«A GOOD SOLUTION FOR AN AGGRAVATING PROBLEM»</u> .	\$ 39.00
543	Brush Cone	\$ 25.00
544	Brush Retainer Clips	\$ 22.00
570	10 - 25 - 30 - & 35 MT Delco Industrial Snap Ring Tool.	\$ 185.85
570-1	Bullet with Long Thin Shoulder (10-25 & 30 MT)	\$ 66.85
570-2	Bullet 35MT.	\$ 39.95
570-3	Push Clamp Assembly.	\$ 90.00
570-4	Push Pull Handle.	\$ 30.00
570-5	Push Pull Cone Shaft.	\$ 60.00
575	Delco Industrial Snap Ring Removal Fixture. 10 - 25 - 30 - 35MT	\$ 185.85
580	Machined Delco 3510 Starter Drive Housing (Your Housings) \$ 11.00 each in lots of 10. \$ 9.00 each in lots of 25 or more.	

REBUILDING SERVICE FOR 525 & 527**FORD**

800	Ford Permanent Magnet Brush Installation Cone. <u>«Makes Brush Holder Installation Very Easy»</u>	\$ 24.95
801	Ford Contact Rivet Press.	\$ 360.00
801-1S	Ford Contact Pliers (Spring Only).	\$ 12.85
801-1	Ford Contact Pliers.	\$ 25.85
801-2	Ford Contact Press Gear.	\$ 24.85
801-3	Ford Field Case Support.	\$ 16.00
802-4	4" Ford Aluminum Sleeve Installation & Tooling Kit.	\$ 260.85
802-41/2	4 1/2" Ford Aluminum Sleeve Installation & Tooling Kit.	\$ 260.85
803	Ford Starter Brush Rack Riveting Fixture.	\$ 795.00
804	<u>NEW DESIGN</u> Ford Drive Housing Lock Cup Remaching Fixture. (Just parts shim = HW - 3600 = .032 Thick IPM SHIM = 0A 3304 = .062 Thick).	\$ 135.45
804-1	Cutter & Pilot.	\$ 125.45
804-2	Cutter.	\$ 99.85
804-3	Pilot	\$ 35.60
806	4 1/2" Ford Brush Rack Sizer	\$ 33.60
807	4" Ford Brush Rack Sizer	\$ 33.60
808	Ford Armature Lock Remover and Installer.	\$ 125.00
809	Ford Moveable Pole Shoe Measuring Fixture (4 1/2").	\$ 85.80



809-1	Ford Moveable Pole Shoe (How to Grind Sample 4 1/2").	\$ 12.00
810	Ford Drive end Bushing Hole Chamfer Bit & Extension. <u>For Ford Starter Bushing Hole Inside</u> <u>Diameter Chamfer.</u>	\$ 115.00
810-1	Ford Bushing Installation Fixture & Two Drivers.	\$ 165.85
810-2	Ford Drive Housing Measuring Fixture W/Dial Indicator 4 1/2" Old Style Starter. Just parts shim HW 3600 = .032 Thick. IPM shim = oA 3304 = .062 Thick).	\$ 290.00
810-3	Ford Armature thrust Lenght Measuring Fixture.	\$ 135.00
810 KIT	<u>Includes 810-2 and 810-3. Buy a Kit «Save Money»</u> <u>\$60.00</u>	\$ 365.00
810-2MOD I	Measures MOD I Ford Drive Housing Fixture with Dial Indicator. Just Parts - shim HW 3600 = .032 thick. IPM shim - OA 3304 = .062 Thick.	\$ 290.00
810-3	Ford Armature Thrust Lenght Measuring Fixture.	\$ 135.00
810-2MOD I	<u>KIT Includes 810-2MOD I & 810-3. Buy a Kit <u>Save \$</u></u> <u>60.00.</u>	\$ 365.00
810-M2	Setting Master, for 810-2 Drive Housing Setting Fix. 4 1/2".	\$ 55.00
810-M3	American Motors Drive Housing Setting Fixture 4 1/2".	\$ 55.00
810-M4	American Motors Dial Indicator Adaptor	\$ 60.00
810-4	Ford Assembly Rack	\$ 110.20
810-6	Ford Brush Installation Free Run Cover & Band Installa- tion Fixture.	\$ 199.00
812	Ford Drive Housing Broken Through Bolt Drilling out Fix. 4 1/2".	\$ 299.00
813	Ford Contact Pressure Gauge.	\$ 80.90
815 KIT	Ford Starter Drive Housing Needle Bearing Removable & Installation Kit.	\$ 149.85
824	4" Moveable Poleshoe Measuring Fixture.	\$ 85.00
824-1	4" How to Gring Poleshoe Sample.	\$ 12.00
830	MOD II & III 4" Ford Starter Drive Housing Measuring Fixture with Dial Indicator. (Use shims just parts = HW - 3600 = .032 thick = IPM OA = 3304 = .062 thick).	\$ 290.00
831	MOD II & III 4" Ford Starter Armature Thrust Lenght. Measuring Fixture.	\$ 135.00
830 KIT	<u>Includes 830 & 831. BUY A KIT SAVE \$ 50.00</u>	\$ 375.00

MOTOROLA

1012	Motorola Diode Plate & Stator ASSEMBLY FIXTURE.	\$ 198.85
1500D2	Chrysler two flute alignment reamer. (D2 Tool steel) for new bushings.	\$ 450.00
1500-40M2	40MT two flute alignment reamer. (Tool steel) drive housing & center plate bushing reamer.	\$ 450.00
1544-22	Reamer for use with RBS of Atlanta Drive Hou- sing Boring Fixture and an ACE Bushing 4422 for Delco & Ford Passenger car Aluminium Drive Hou- sing IPM bushing 2D-7100. This reamer will not bore through on Delco Aluminum Housings.	\$ 99.85
1544-56	Extra large reamer for use with RBS of Atlanta Dri- ve Housing Boring Fixture. For industrial drive Housing with 1/2" bushing ID & .470.ID. This bushing will also repair some passenger car drive housing (Ford). (ACE bushing No. for 1/2" Shaft ACE No.4381.) (Our Bushing for. 470 ID 1544-56 BV). ONE OR TWO FORKLIFT DRIVE HOUSINGS & THIS REAMER IS PAID FOR.	\$ 120.00

PRICES ARE IN U.S. DOLLARS PLUS SALES TAX WHEN APPLICABLE. F.O.B.
MELBOURNE, FL. U.S.A.

1544-56BU	Bushing for (1544-56 Reamer) with .470 ID (25 min.)	\$ 55.00
1500-1	Delco & Ford .002 undersize drive end reamer.	\$ 55.80
1500-2	Delco & Ford Drive End STD Reamer.	\$ 55.80
1500-3	Delco & Ford .002 oversize drive end reamer.	\$ 55.80
1550-4	Delco Comm. end STD reamer & delco Generator.	\$ 55.80
1500-5	Ford Comm. end reamer.	\$ 70.40
1500-6	Chrysler Back Plate STD reamer.	\$ 90.00

INDUSTRIAL

1501	Heavy Duty Shaft Straightener with Dial Indicator.	\$ 700.00
1502	Shaft Checker with Dial Indicator.	\$ 550.00
1502-2	Shaft Straightener & Checker work as a pair. (Save Money)	\$ 1,200.00
1503	Rotor Runout Measuring Fixture.	\$ 550.00
1503 Long	Rotor & Armature Runout Measuring Fixture 2ft. long.	\$ 600.00
1505	40 & 500 Volt Short Tester = 40 Volts for Armatures & Paper wrapped Starter Field Coils. 500 Volts for plastic covered Starter Field Coils, Stators & Rotor's. Every internal regulator, alternator, rotor must be checked at 500 volts to find small shorts.	\$ 375.00
1550	40MT Delco Solenoid opening tool <u>KIT HEATREATED.</u>	\$ 1,495.00
1551	Expander & Inner Sleeve only.	\$ 1,160.00
1560	40MT Comm. End Plate Reamer Fixture.	\$ 250.00
1560-1	40MT Comm. End Reamer.	\$ 95.00
1561	50MT Comm. End Plate Reamer Fixture.	\$ 265.00
1561-1	50MT Reamer Comm. End.	\$ 110.00
1562	40MT Drive Housing Oversize Bushing Boring Fixture this fixture is machined on center & on axis = true to housing base. Use ACE Bushing #4402.	\$ 395.00
1562-1	40MT reamer.	\$ 140.00
1562-2	Extra Large Reamer (Optional 7/8" OD).	\$ 195.00
1562-3	Bushing for 1562-2 Reamer (\$4.00 each minimum 30).	\$ 120.00
1562-4	Clamp for 1562.	\$ 165.00
1562-5	Reamer for Delco Reman. Bushing.	\$ 160.00
1564	O.D. Bushing Turning Tool use in Lathe. For marking ODD Size Bushings OD & ID.	\$ 120.00

INDUSTRIAL, FOREIGN AND MISCELLANEOUS

1575	V.W. 12 Volt Snap Ring Installation Tool Shaft Size .410 - .440.	\$ 165.85
1576	Datsun & Bosch Snap Ring Installation Tool Shaft Size 0.490 - .520.	\$ 165.85
1577	Nippondenso (John Deer) & M50 Lucas Snap Ring Installation Tool.	\$ 190.85
1578	Nippondenso (John Deer) & M50 Lucas Snap Ring Remover Fixture.	\$ 199.85
2000	Honda - Toyota Gear Reduction Starter Drive Sprague loading Tool.	\$ 19.95
2001	Alternator Pulley Nut Removal & Installation. Bench Mounted Heavy Duty Ingersoll Rand Impact Wrench Foot Valve & Airlines (803-1 regulator watertrap & Oiler Extra).	\$ 499.00
2005	Cooper Field Repair Punch Tool Kit.	\$ 98.00
2006	Armature Bonding Material (1 gal.)	\$ 55.00
2006-1	Hardener Tube.	\$ 6.00



2006-4	Armature Bonding Material (4 Gal) each.	\$ 45.00
2500	Leece Neville Needle Bearing Removal Fixture <u>KIT.</u>	\$ 195.00
2501	Leece Neville Needle Push Out Tool.	\$ 135.00
2502	Leece Neville Push Out Tool Bit.	\$ 25.00
2503	Leece Neville Housing Support.	\$ 75.00

ROTOR AND ARMATURE THREAD CHASER'S

**Domestic Pass = Foreign Pass = US Industrial & Foreign Industrial
FAST, EASY & SIMPLE THREAD REPAIR,**

2566	BLUE = Delco = Ford = Prestolite = etc.	\$ 89.85
2567	YELLOW = 1/2 x 20 Old Style Leece Neville&. Delco. Ind. Thread 1/2 x 20 thr.	\$ 89.95
2568	GRAY = 5/8 x 18 JB2500 Popular Leece Neville = Motorola = 27S I Delco Ind. Thr. 5/8 x 18 thr.	\$ 89.95
2569	RED = 12 x 1.5 mm. Pitch Datsun, Hitachi, VW Generator & Alternator.	\$ 89.95
2570	Green = 14 x 1.5 mm.. Pitch Bosch, Hitachi. ND, Datsun, Toyota Small Lucas.	\$ 89.95
2571	SILVER = 15 x 1.5 mm. Pitch Mitsubishi, Dodge, K. Car, Colt 4D & European Alternator	\$ 89.95
2572	ORANGE = 16 x 1 mm. Pitch Sev. Motorola, Paris Rhone & more.	\$ 89.95
2573	GOLD = 16 x 1.5 mm. Pitch Large Lucas & Other Japan & European Alternator.	\$ 89.95
2574	BLACK = 17 x 1.5 mm. Pitch Sev. Marchal & Other Japan & European Alternator.	\$ 89.95
2575	BROWN = 16 x 1.25 mm. Pitch Motorola & Other Japan & European Alts.	\$ 89.95
2576	PINK = 14 x 1.25 mm. Pitch Japan & European Alternators.	\$ 89.95

NIPONDENSO INTERNAL FAN CS130 D&3G&4G Ford ALTERNATOR DISASSEMBLY KITS.

3001	N.D. Interfan Back Plate Puller.	\$ 70.00
3002	N.D. Stator Remover kit W/3 Popular Plates & Heat treated Bolt (this puller is the strongest of all large heatreated Bolt = over two times more thread length in each plate. Also thread nut on plate is <u>Heat Treated.</u>	\$ 129.85
3004	Alternator holding fixturefor N.D. the CS 130D Alt & other's Conveniently holds all alternators for disassembly & stator removal. Vise or Bench Mounting.	\$ 60.00
3002-HDC6	Complete Kit 6 Different Plates the most popular N.D. & Chry. Plates & CS 130 D Plate. Back Plate PULLER 3001 = (Slip ring end) Alternator Holding FIXTURE 3004 = for alternator & Stator disassembly. <u>\$789.90 Value \$414.00 Saving from old price when Complete Kit is bought.</u>	\$ 375.00
3002-B	Bolt Heatreated	\$ 60.00
3002-1	Plate 70 mm = 72.50 m.m.	\$ 60.00
3002-1.5	Plate 77 mm = 14684-14937-14843 etc. Ind. = 76.50 mm	\$ 60.00

3002-2	Plate 83 mm = 14754-14671 etc. = 85.50 m.m.	\$ 60.00
3002-3	Plate 90 mm = 14611-14679-14680 etc. =92.00 m.m.	\$ 60.00
3002-4	Plate 92 mm = ND Chry. 80 amp. = 93.50 m.m.	\$ 60.00
3002-5	Plate 101.5 mm = Chry. 100 to 120 amp. = 104 m.m.	\$ 60.00
3002-130D	Plate CS130D	\$ 60.00
3002F-3G-S	Small 3G Ford Alternator Remover Kit 3.930''.	\$ 60.00
3002F-3G-L	Large 3G Ford Alternator Remover Plate 4.00''.	\$ 60.00
	All Stator puller plates have heatreated thread welded to plate. To more than double the thread for longer life of puller plate.	
3130 D KIT	CS 130D Stator Remover KIT Heatreated Bolt & and Stator to Drive Housing Installation Fixture.	\$ 165.00
3131	CS130D Stator Remover Tooling. Heatreated Bolt & Stator Puller Plate.	\$ 120.00
3132	CS130D Stator Installation into Drive Housing fixture.	\$ 49.85
3133	CS130D Slip ring bearing puller with 2 adaptors. Flat adaptor for CS130D & point adaptor for 95% of other slip ring bearings (in board & out board bearings).	\$ 96.30
3133-CS	CS13D Flat Puller adaptor (Duck bill style Puller)	\$ 36.50
3133-P	Point adapter for rotor shafts with center hole.	\$ 36.50
3133PL	Puller (Duck bill style) popular power steering & bearing puller.	\$ 43.30
3200	Nippondenso Gear Reduction Starter Drive = Disassembly & Assembly Fixture's.	\$ 360.00
3220	Kit	\$ 200.00
3220-1	Nippondenso Starter Drive Compressor.	\$ 65.95
3220-2	Lock cup unseating Driver.	\$ 40.00
3220-3	Sprag bearing Support.	\$ 60.00
3220-4	Lock cup wire Seating & bearing push out tool	\$ 50.00
3400	Snap Ring Istallation Fixture for 6.9 & 7.3 Diesel with Mitsubishi Starter.	\$ 260.00