

Duplicating Code Vachine

Instruction Manual & Parts Book



(517) 354-5623

FAX: (517) 354-4238

Framon Manufacturing Co., Inc. 909 Washington Ave., Alpena, MI 49707

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DESCRIPTION

The Framon Code Duplicator is designed to cut automotive keys by code and to also duplicate keys. This machine uses depth cams and spacing keys to accomplish this type of key cutting

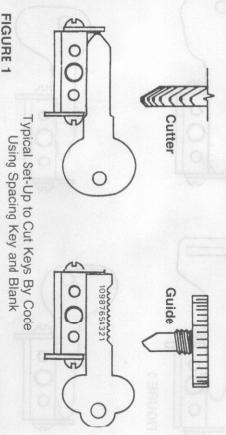
The machine, at time of purchase, includes one cam and five spacing keys. This cam is the #1 cam and has depths for cutting the 5 pin Ford, 10 wafer Ford, American Motors, Chrysler and GM keys. Each of the spacing keys are numbered for identification and with the number of spaces for each manufacturer. Also included is an adjusting wrench (allen) and instruction/service manual.

CUTTER HEAD

The cutter head is mounted on precision grade sealed bearings for accuracy and long life. The cutter is precision ground of M3 tool steel and to the precise configuration for most automotive keys.

YOKE

The yoke has two vises. The left vise is used for the blank to be cut. The right vise is used to hold the spacing key required when cutting by code and for holding the pattern key when duplicating (see Figures 1 & 2). Each vise is double sided. Always use the narrow side, unless the blank tips in the vise then use the wide side of vise.



All spacing keys are used in the right hand or guide side vise, and keys to be cut by code or duplicated are put in the left hand or cutter side vise.

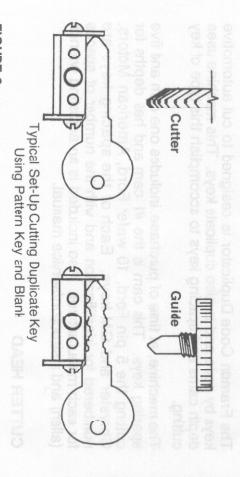
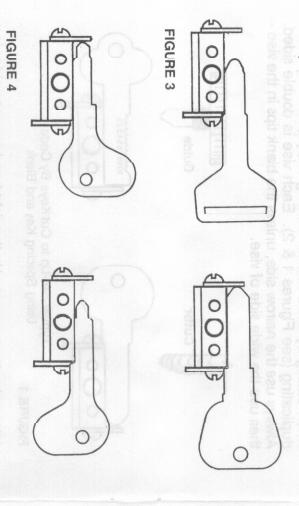


FIGURE 2

KEY BLANK INFORMATION

Key blanks without bottom shoulders should be inserted into the vise until the tip of the key hits against the tip stop on vise. Key blanks that have a bottom shoulder must be inserted with the bottom shoulder against the right hand side of the vise (see Figures 3 & 4). The spacing key will always be inserted with the tip of the key against the tip stop in the guide vise.

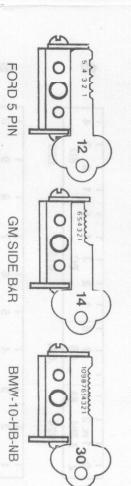


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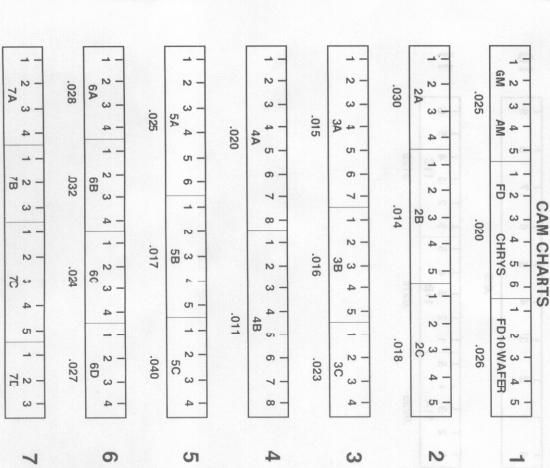
.010

.0125

.038



Example of Spacing Keys



LUBRICATION

A small amount of fine oil can be used on the yoke slide rod and the guide shaft. Wipe off all excess oil.

WARRANTEE

The warrantse on the Framon DC-300 is in effect for a period of one year from date of purchase. Framon Mfg. Co. will repair or replace any part of any machine proven to be defective as to material or workmanship. If any machine is returned to us in the first year, Framon Mfg. will absorb all cost for repairs, including freight. After one year, Framon Mfg. will charge customer for parts, a flat labor rate, and freight. Machines will be repaired and returned within two days of receipt. This warrantee is valid to the original purchaser only. Cutters are not covered by this warrantee. Framon cutters are among the finest cutters made today, but we have no control over their use.

WARRANTEE CLAIMS PROCEDURE

Purchaser must inform Framon Mfg. Co. by telephone or letter and obtain permission from Framon before returning any machine. Framon will <u>not</u> accept any machine returned without prior permission. Any correspondence pertaining to any problem with a Framon machine should include date of purchase, from whom purchased, and serial number of machine.

CANS AND CAM POST

The # 1 cam will handle most domestic autos - Ford 10 wafer Ford 5 pin, American Motors, Chryser and General Motors, etc.

Other cams are available with depth increments from .010 up to .040 (see cam chart on pages 11 & 12). The number one depth is common to all cams. Use this depth on all cams when duplicating keys.

To change cams, loosen cam lock knob at right rear of cam post withdraw cam pin and slide cam out. Slide new cam into slot, push cam pin into place and tighten cam lock knob. (See Figure 5.)

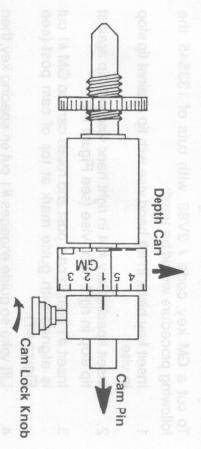


FIGURE 5

CAN POST AND GUIDE

The key guide in the cam post is spring baded to allow the guide to enter cuts in either the spacing key when cutting by code or the cuts in a pattern key when duplicating. This system is used to allow straight in outs.

The adjusting ring on the guide shaft is what controls the depth of each cut. If keys are cut too high, adjusting ring is rotated counterclockwise to change depth. If keys are cut too deep, adjusting ring is rotated clockwise to change depth. To rotate adjusting ring, loosen set screw (nylon tipped) in edge of ring and tighten when adjustment is made. Do not overtighten set screw.

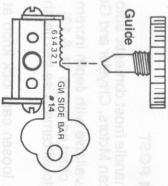


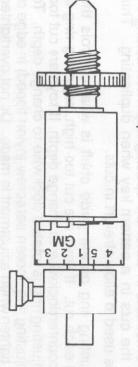
FIGURE 6

CUTTING KEYS BY CODE

Always bottom out key blanks agains: back cf vise

ollowing procedure would be used: To cut a GM key, code # 3V86, with cuts of 133545, the

- Insert key blank in left hand vise with tip against tip stop
- Insert spacing key #14 in right hand vise with tip against tip stop in right hand vise (see Figure # 6)
- w Figure #7). is aligned with guide mark at top of cam post (see Insert #1 cam in cam post and rotate cam so GM #1 cut
- + made. continue lifting yoke until cutter engages key and cut is
- 0 Rotate cam to #3 cut and make next two cuts
- O, spacing positions Rotate cam to #5 cut and make cuts in #4 and #6
- is now complete. Rotate cam to #4 cut and make cut in #5 position. Key



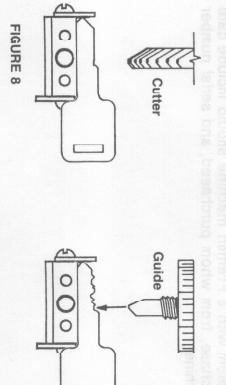
SPACING KEYS

spacing key is numbered according to the insert chart. We can anywhere on any key without changing cam settings. bow to lip. furnish spacing keys for any code series needed You will note that each cut on spacing keys are numbered from This allows operator to make cuts of the same depth

DUPLICATING KEYS

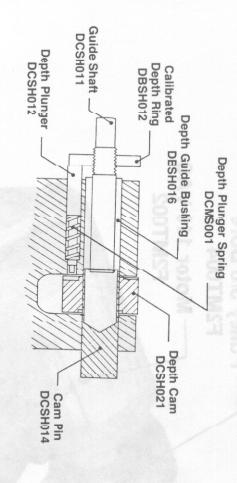
- key stops. Use bottom shoulders, tip stops or top shoulders with Insert both pattern key and blank in the same manner
- used for duplicating). Rotate cam to #1 cut (any #1 cut on any cam can be
- ω Set guide in each cut or patterr key and make each cut cut until key is complete (See Figure 8) by lifting yoke until it comes to a complete stop at each

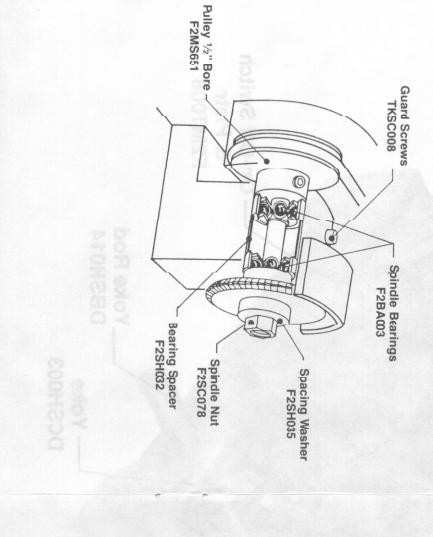
stops. of vise, otherwise use tip stops or top shoulders with key be inserted in vises with bottom shoulder against right hand side If blank and pattern keys have a bottom shoulder, keys should



ADJUSTMENTS

See section on Cam Post and Guide





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TKSC008 Guard	TKMS402 3/32	F2SH035 Spa	F2SH032 Bea	F2SH014 Vise	F2SC078 3/8-2	F2SC003 2" Stud	F2MT008 On-	F2MT004 3/8"	F2MT003 3 Wi	F2MT002 Motor	F2MS651 1/2"	F2MS601 Belt	F2MS551 Key	F2BA003 Spir	DBSH016 Dep	DBSH014 Yok	DBSH012 Cali	DBSH005 Guard	DBMS052 Cam	DBMS051 Yok	DCSH021 #1 D	DCSH014 Carr	DCSH012 Dep	DCSH011 Guide	DCSH007 Spir	DCSH006 Vise	DCSH005 Vise	DCSH003 Yoke	DCSH001 Base	ς.	DCMS101 Nam		DC9040 Cutter	
ard Screw	3/32 Allen Wrench	Spacing Washer		Vise Clamp Nut	3/8-24 Hex Nut	Stud	On-Off Switch & Plate	3/8" Pulley	3 Wire Cord	Or	Pulley		Key Stop	Spindle Bearing	Depth Guide Bushing	Yoke Rod	Calibrated Depth Ring	ard	Cam Rod Lock Knob	Yoke Knob	#1 Depth Cam	Cam Pin	Depth Plunger	de Shaft	Spindle Shaft	е Тор	Bottom		Cares.	Tip Stop	Name Plate	Depth Plunger Spring	ter	

