



TRI - OPENING HOOD HINGE INSTALLATION INSTRUCTIONS

Tech questions to info@haganauto.com

The instructional video can also be viewed at www.haganauto.com

CONTENTS OF YOUR NEW HOOD HINGE SET



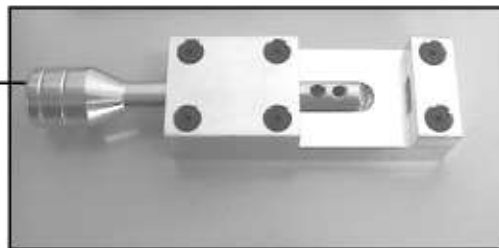
1-VIDEO INSTALL GUIDE



4- BRAIDED CABLES



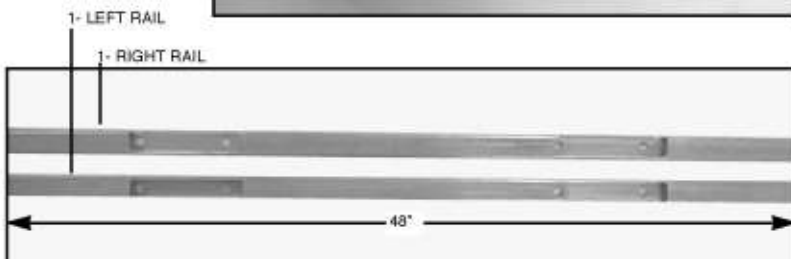
4- UPPER HINGE MOUNT
BLOCKS



2- RELEASE KNOBS
ASSEMBLIES



2-RIGHT
2- LEFT
RECEIVER BLOCKS
WITH HINGE MOUNT
LOCK BLOCKS



1- LEFT RAIL

1- RIGHT RAIL

48"



4- HINGES

4- RAIL MOUNT BRACKETS

4- CABLE NUTS

8- 1/4-20 X 1/2 BOLTS

8- 8-32 X 3/8 BUTTON HEAD ALLEN BOLTS

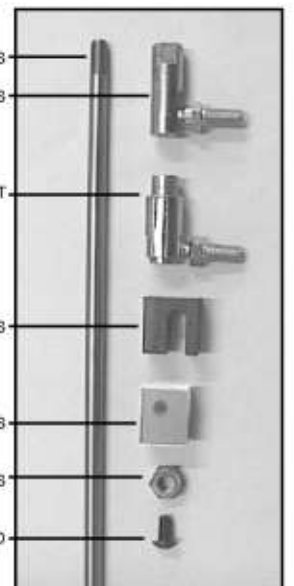
16- 6-32 X 3/8 FLAT HEAD ALLEN SCREWS

16- 1/4 FLAT WASHERS

8- 1/4 INTERNAL LOCK WASHERS

4- 1/4-28 JAMB NUTS

1-5/64 ALLEN WRENCH



2- STAINLESS PROP RODS

2- FIXED BALL JOINTS

2- QUICK RELEASE BALL JOINT

2- PROP ROD CLAMPS

2- PROP ROD MOUNT BLOCKS

4- 1/4-28 NUTS

4- 10-32 X 3/8 BUTTON HEAD

HOOD DIMENSIONS

****BEFORE YOU BEGIN
YOU MUST HAVE VIEWED THE VIDEO SO YOU HAVE A
GOOD UNDERSTANDING OF THE PROCEDURE. THE FOL-
LOWING INSTRUCTIONS ARE ONLY A SUPPLEMENT TO
THE VIDEO INSTALL GUIDE. THEY PROVIDE DIMENSIONS
FOR CARS OTHER THAN 32 FORDS.**

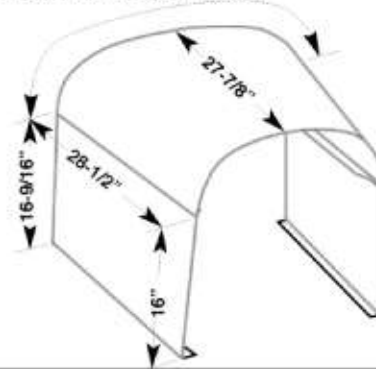
ON THE VIDEO:

STAGE II STEPS 3, 4, and 5 Setting up the radiator and grill shell

These dimensions are stock hood measurements. In the video steps 3,4 & 5 are positioning the radiator and grill shell. Remember to add for the 1/8" gap at the front and back of the hood when using these dimension

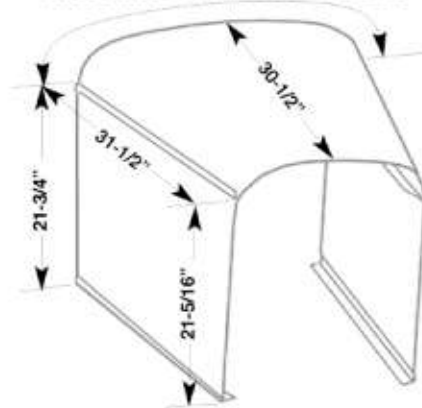
'28-'29 Model A

COWL 41-13/16" SEAM TO SEAM
HOOD 41-11/16" SEAM TO SEAM



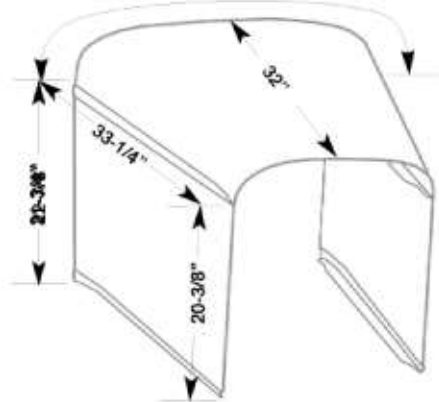
'30-'31 Model A

COWL 39-9/16" FROM TOPS OF BELT LINES
(WITHOUT STAINLESS TRIM)
HOOD 39-3/8" FROM TOPS OF BELT LINES



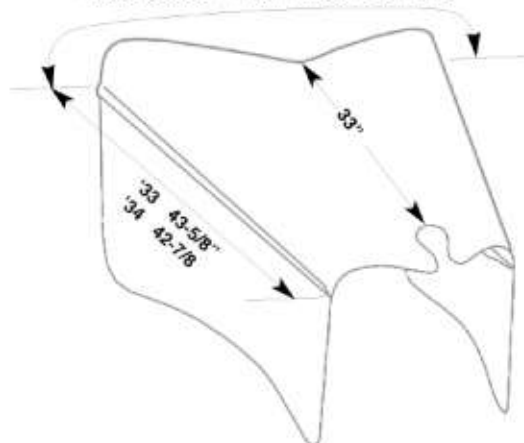
'32 Ford

COWL 41-13/16" FROM TOPS OF BELT LINES
(MEASURING ATOP RAISED BEAD)
HOOD 41-9/16" FROM TOPS OF BELT LINES



'33-'34 Ford

COWL 49-5/16" FROM TOPS OF BELT LINES
(MEASURING STRAIGHT ACROSS)
HOOD 49-3/16" FROM TOPS OF BELT LINES



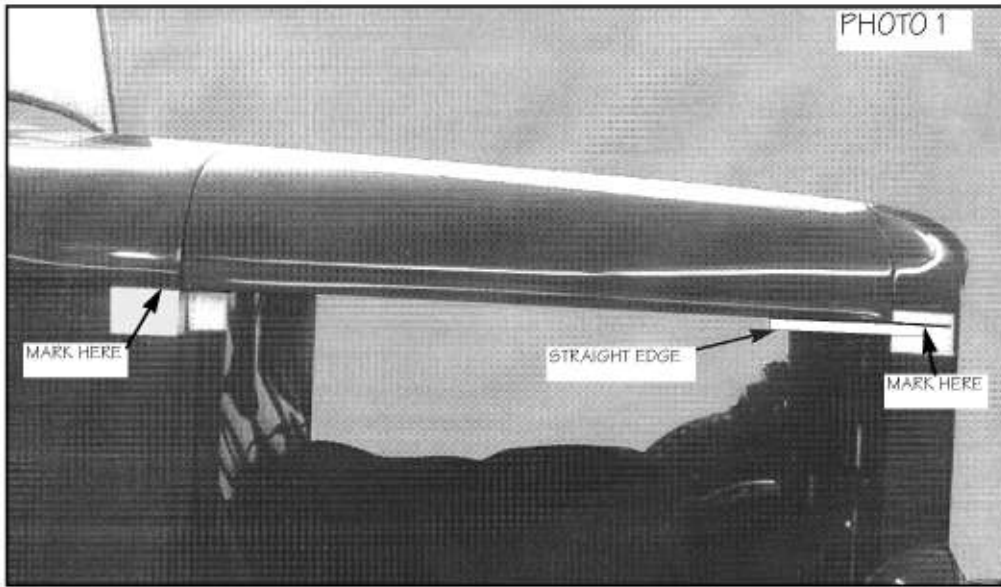


PHOTO 1

THESE INSTRUCTION FOCUS ONLY ON THE INSTALLATION OF THE HINGE SYSTEM

STEPS 1 THRU STEP 8: ARE SHOWN ON THE VIDEO.

STEP 9: INSTALLING THE FISH LINE GUIDE

ENSURE THE TOP HOOD PANEL IS IN PERFECT POSITION. YOU MIGHT WANT TO USE MASKING TAPE TO HOLD THE HOOD IN PLACE. MARK THE POSITION OF THE HOOD ON THE COWL AND RADIATOR SHELL BY HOLDING A STRAIGHT EDGE ALONG THE BOTTOM OF THE HOOD (PHOTO 1). USE A FINE POINT PENCIL TO MAKE MARKS, OR SCRIBE IF THE CAR IS NOT PAINTED.

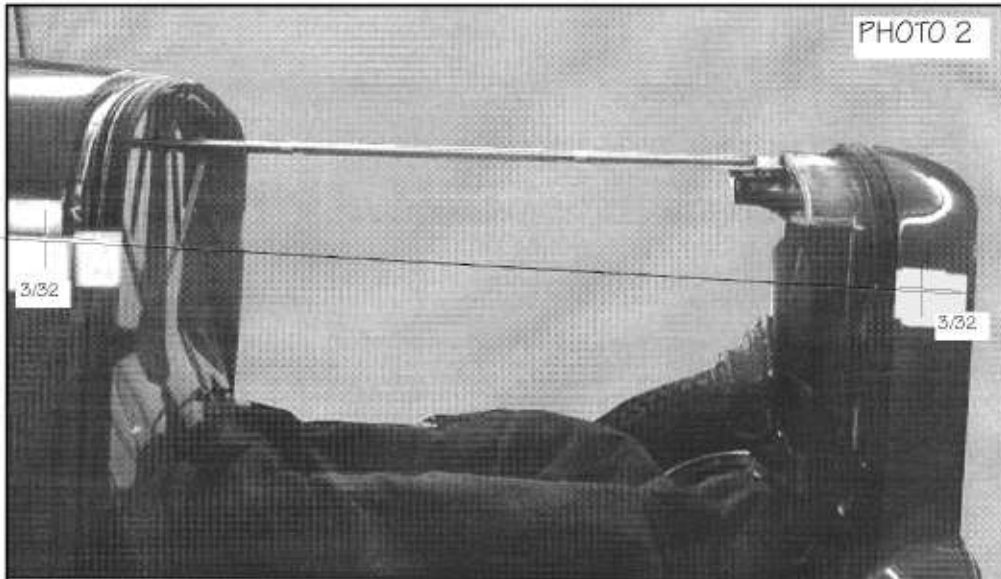


PHOTO 2

NOTE: BE EXTREMELY PRECISE WHEN MAKING ALL LAYOUT MARKS TO ACHIEVE PROFESSIONAL RESULTS!

3/32" BELOW THE HOOD POSITION SCRIBE ANOTHER LINE. ON THIS LINE TAPE A FISH LINE BETWEEN THE COWL AND THE RADIATOR SHELL. THIS FISH LINE IS A REFERENCE POINT FOR POSITIONING THE HINGE RAILS (PHOTO 2). NOTE: IT IS NOT NECESSARY TO REMOVE THE HOOD AT THIS TIME.

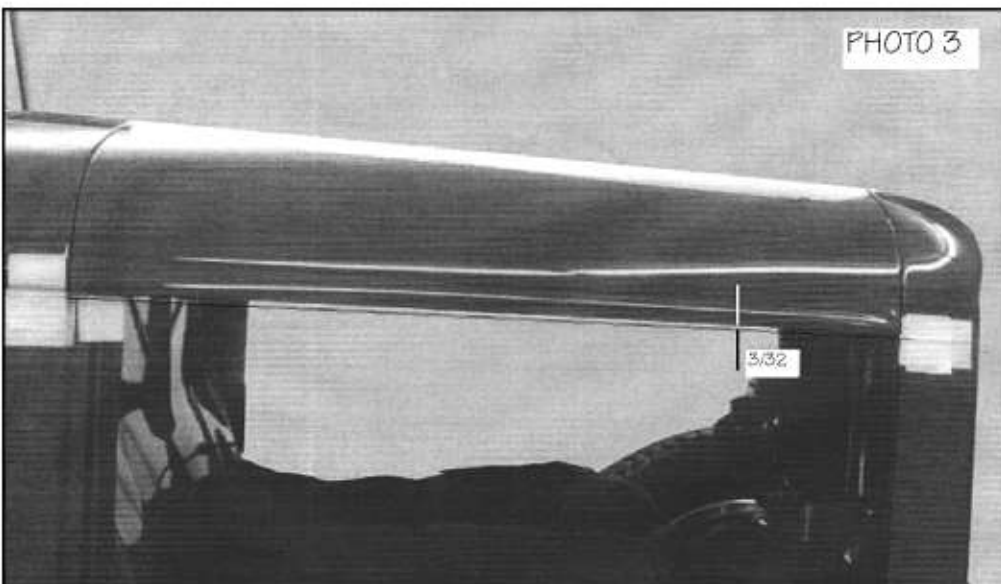


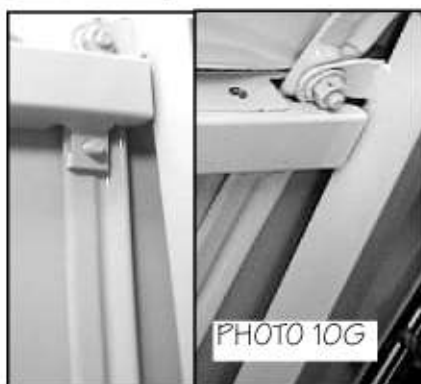
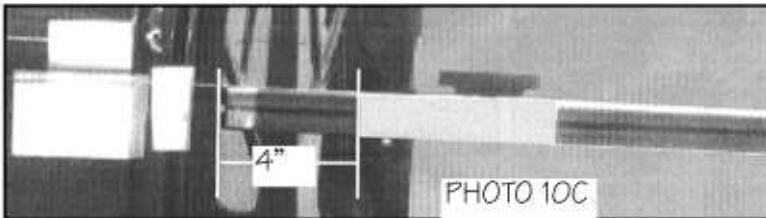
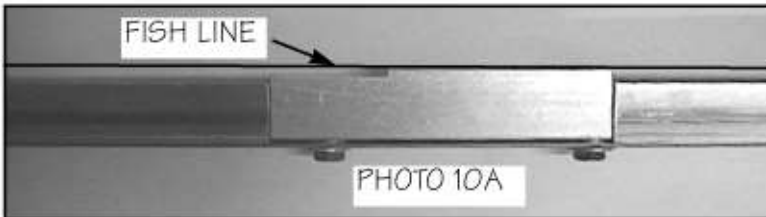
PHOTO 3

WITH THE HOOD IN PLACE CHECK THE ALIGNMENT OF THE FISH LINE.

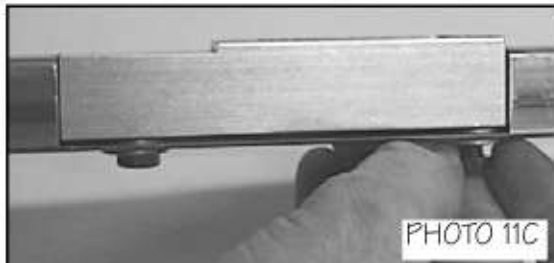
IT MUST BE:

- * PARALLEL TO THE HOOD
- * FLUSH WITH THE OUTER EDGE OF THE HOOD
- * AND 3/32" BELOW THE HOOD.

DO NOT PROCEED ANY FURTHER UNTIL THESE DIMENSIONS ARE CORRECT (PHOTO 3).



(PHOTOS 10G) SHOWS HOW THE FRONT OF THE RAIL WAS TRIMMED ON A 32 FORD.



STEP 10: MOUNTING THE HINGE RAILS

HERE'S THE TRICKY PART!

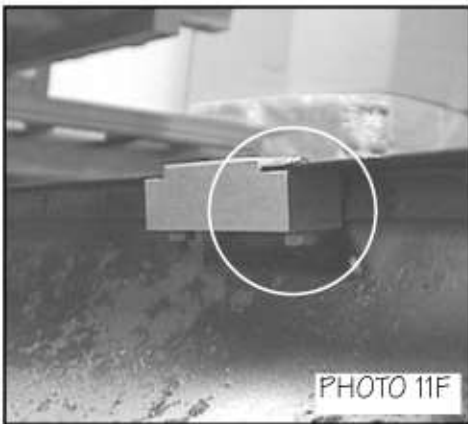
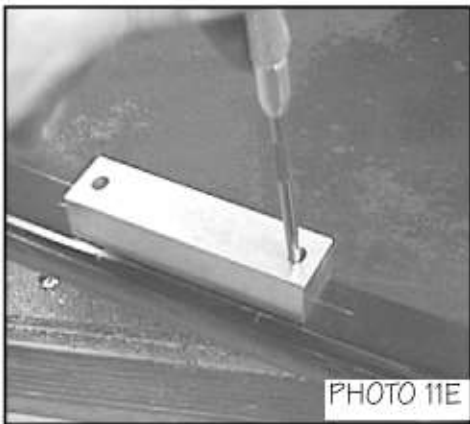
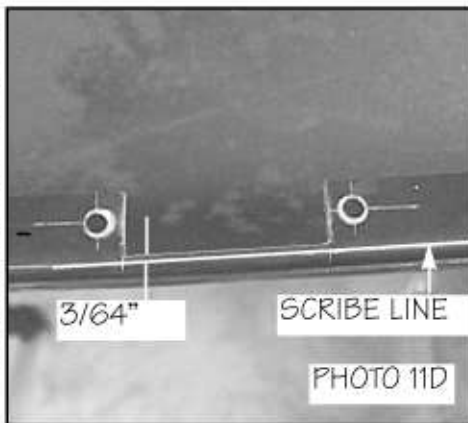
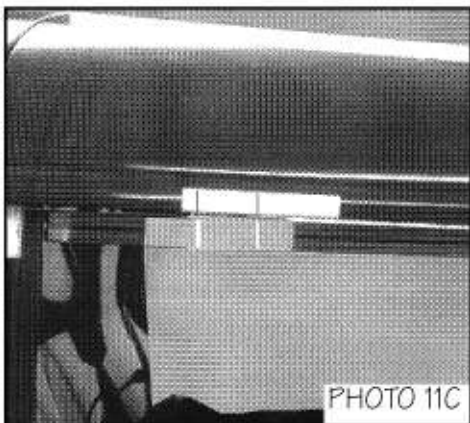
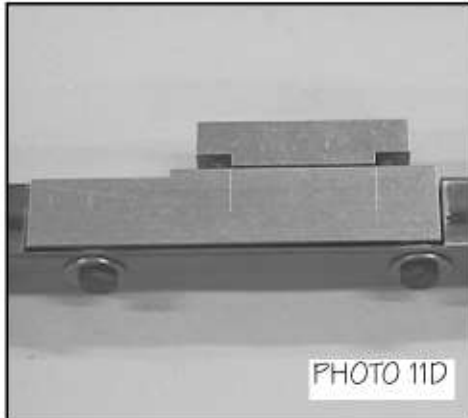
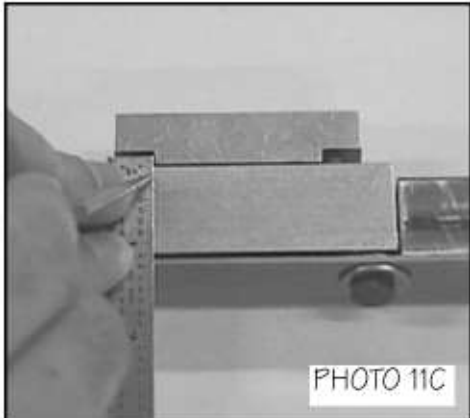
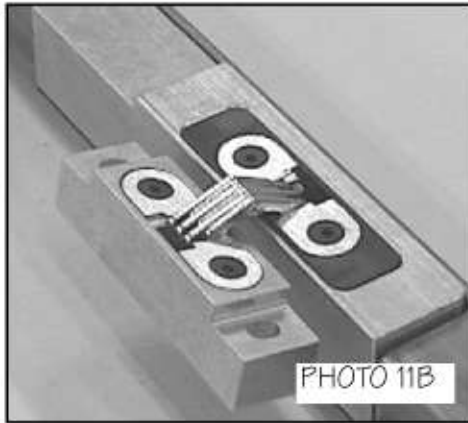
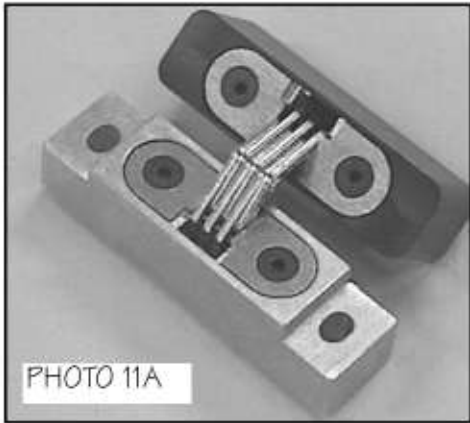
YOU NOW HAVE TO TRIM THE RAILS TO FIT TO THE COWL AND GRILL. BEFORE YOU BEGIN CUTTING YOU MUST FIRST UNDERSTAND WHERE THE RAILS WILL BE POSITIONED IN RELATION TO THE FISH LINE AND FIRE WALL.

- 1) TOP OF ALUMINUM RECEIVER BLOCKS MUST BE FLUSH WITH FISH LINE (PHOTO 10A).
- 2) ALUMINUM RECEIVER BLOCKS MUST BE 1/8" IN FROM FISH LINE (PHOTO 10B).
- 3) THERE MUST BE 4" MINIMUM OF RAIL BEHIND THE REAR BLOCK TO ALLOW CLEARANCE FOR THE LATCH PIN AND CABLE NUT. (PHOTO 10C). THIS DIMENSION IS A SAFE DIMENSION. YOU CAN HAVE LESS BUT BE CAREFUL TO LEAVE ROOM FOR THE CABLE AND PIN ASSEMBLY.

PHOTO 10D , 10F, 10G SHOW DIFFERENT WAYS TO TRIM AND MOUNT THE ENDS OF THE RAILS. YOU MUST DETERMINE WHAT WILL WORK BEST FOR YOUR APPLICATION. JUST REMEMBER YOU MUST LEAVE ENOUGH ROOM INSIDE THE RAIL , AT THE BACK, TO ALLOW THE PIN AND CABLE TO WORK PROPERLY.

STEP ELEVEN: INSTALLING HINGE MOUNT BLOCK

REMOVE LATCH PINS, SPRINGS, & JAMB NUTS FROM RECEIVER BLOCKS (PHOTO 11A). IF YOU ARE INSTALLING AN ALUMINUM HOOD PLACE 1/4" WASHERS UNDER EACH RECEIVER BLOCK (PHOTO 11B). **DO NOT USE WASHERS** IF INSTALLING A STEEL HOOD. BOLT RECEIVERS IN PLACE FINGER TIGHT WITH 1/4-20 X 1/2" BOLTS (PHOTO 11C). CENTER RECEIVER BLOCKS IN OPENINGS AND TIGHTEN BOLTS (PHOTO 11D).



ASSEMBLE THE HINGES TO THE BLACK LOCK BLOCKS AND THE ALUMINUM UPPER BLOCKS WITH THE 6-32 X 3/8 FLAT HEAD ALLEN SCREWS (PHOTO 11A & B).

TO AVOID STRIPPING TAPPED HOLES DO NOT OVER TIGHTEN SCREWS! SLIP THE BLACK LOCK BLOCKS INTO PLACE. BE SURE THE HINGES ROTATE OUTWARD (PHOTO 11B), AND THAT THE HOLES IN THE LOCK BLOCKS POINT TO THE REAR. MARK THE POSITION OF THE STEP OF THE UPPER BLOCK (PHOTO 11C & 11D).

REMOVE THE HINGE AND UPPER BLOCK ASSEMBLY FROM THE RECEIVERS. INSTALL THE TOP HOOD PANEL. BE SURE IT'S PROPERLY ALIGNED. NOW TRANSFER THE HINGE POSITION MARKS TO THE HOOD PANEL (PHOTO 11C). **WHILE HOOD IS INSTALLED SCRIBE ALONG RECEIVER BLOCK TO THE UNDER SIDE OF THE HOOD. THIS SCRIBE LINE IS SHOWN IN PHOTO 11D.**

FROM THESE MARKS LAYOUT THE AREA TO BE CUT AWAY. NOTICE THE END CUTS ARE DIRECTLY ON THE HINGE POSITION MARKS. THE CUT IN THE EDGE OF THE HOOD IS 3/64" INWARD FROM THE SCRIBE LINE. CUT THE OPENING, THEN INVERT THE UPPER BLOCK AND MARK THE SCREW HOLE POSITIONS (PHOTO 11E). DRILL 3/16" HOLES TO MOUNT UPPER BLOCKS. UPPER BLOCKS ARE MOUNTED WITH THE 8-32 X 3/8" BUTTON HEAD ALLEN SCREWS. THE UPPER BLOCKS ARE MACHINED TO GIVE THE PROPER SPACING BETWEEN THE TOP AND SIDE HOOD PANELS

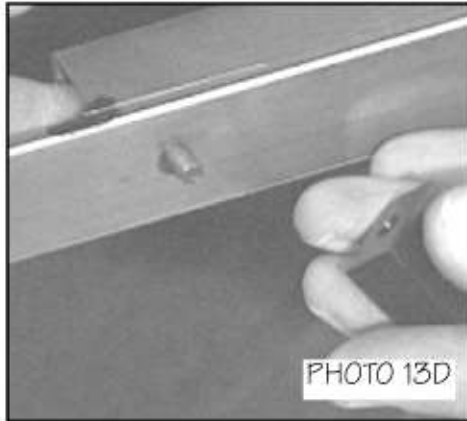
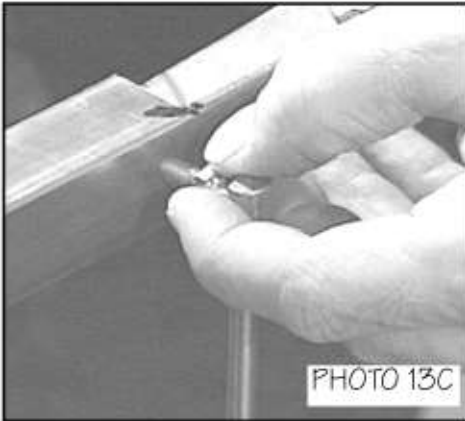
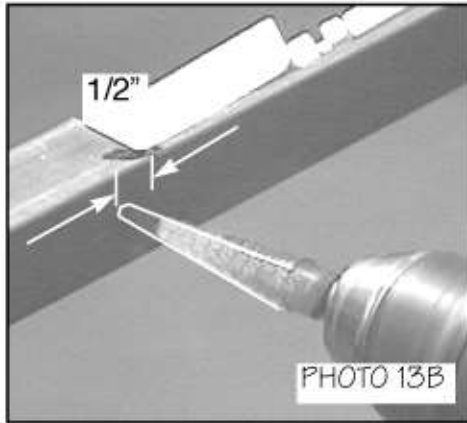
STEP 12: ADJUSTING THE HOOD

YOU CAN FINE TUNE THE ADJUSTMENT BY LOOSENING THE RECEIVER BOLTS.

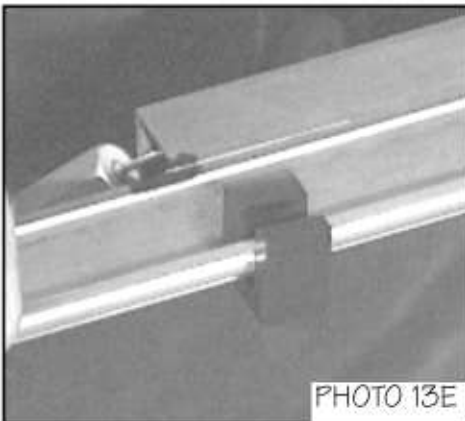
****SEE VIDEO FOR DETAILS****

STEP 13: INSTALLING HOOD PROPS

THE PROPS MOUNT ALONG SIDE THE HINGE RAILS. 1/2" IN FRONT OF THE REAR RECEIVER OPENING, DRILL A 5/16" HOLE (PHOTO 13B). MOUNT THE FIXED BALL JOINT (PHOTO 13C).



1/2" BEHIND THE FRONT RECEIVE OPENING DRILL A 3/16" HOLE AND MOUNT THE ROD CLAMP (PHOTO 13D & 13E).



INSTALL THE BALL OF THE QUICK RELEASE JOINT INTO THE ALUMINUM MOUNT BLOCK (PHOTO 13F).



CLIP IT ONTO THE ROD AND POSITION IT ON THE LIP OF THE HOOD (PHOTO 13G).

MARK THE POSITION AND DRILL A 3/16" HOLE, THEN BOLT THE BLOCK IN PLACE.

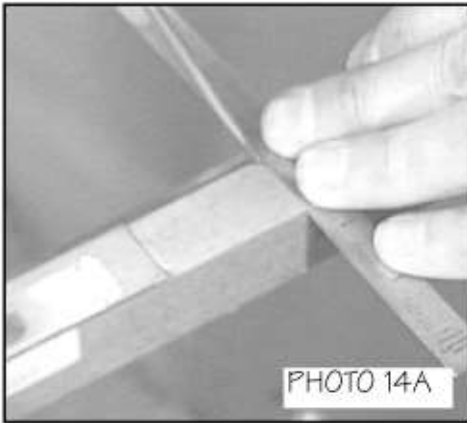


PHOTO 14A

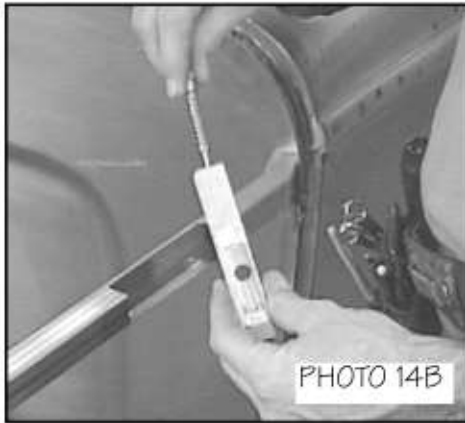


PHOTO 14B

STEP 14: INSTALLING CABLES AND PULL KNOBS.

BEFORE YOU REMOVE THE RECEIVERS MARK THEIR POSITION. THIS WILL MAKE THE REASSEMBLE MUCH EASIER (PHOTO 14A).

INSTALL THE STAINLESS PINS WITH THE SPRINGS (PHOTO 14B).

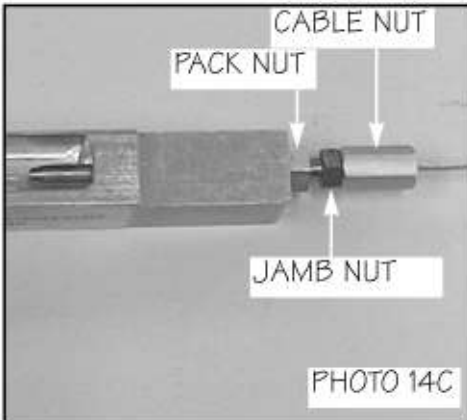


PHOTO 14C



PHOTO 14D

SLIDE CABLE THROUGH THE CABLE NUT AND ATTACH JAMB NUT AND CABLE TO PIN (PHOTO 14C).

FEED FRONT CABLES THROUGH RAIL AND THROUGH THE FIREWALL (PHOTO 14D).



PHOTO 14E

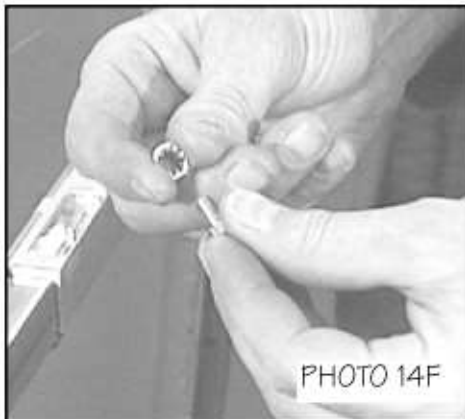


PHOTO 14F

TAPE THE FRONT CABLES TO THE WALL OF THE RAIL (PHOTO 14E).

INSTALL RECEIVERS WITH BOTH THE LOCK WASHER AND FLAT WASHER. (PHOTO 14F).

NOTE: THE BOLT WILL INTERFERE WITH THE PINS IF YOU DON'T USE BOTH.

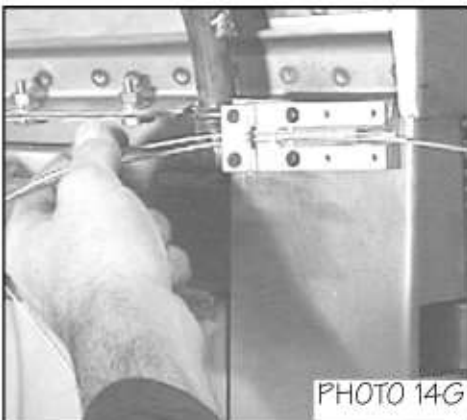


PHOTO 14G



PHOTO 14H



PHOTO 14I



PHOTO 14J

YOU MUST SELECT A POSITION AND MOUNT THE PULL KNOBS.

NOTE: THE CABLE CAN BE CURVED AND EVEN LOOPED IF NECESSARY. KEEP IN MIND YOU WILL HAVE TO SECURE THE CABLE SHEATHING AT THE FIREWALL IF THE CABLES ARE NOT STRAIGHT.

SLIP CABLES THROUGH AND INSTALL CABLE SHEATHING (PHOTO 14G,H).

PUSH SHEATHING TOWARD THE HINGES UNTIL YOU FEEL THEM BOTTOM OUT. NOW GRAB AND SLIDE THE SHEATHING BACK 2" (PHOTO 14H,I,J).

2.75"MIN.

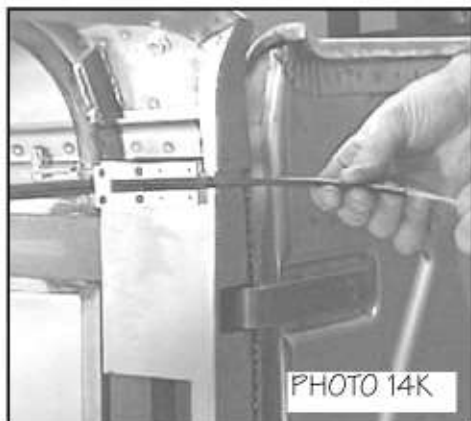


PHOTO 14K

CABLES MUST ACTUATE FREELY

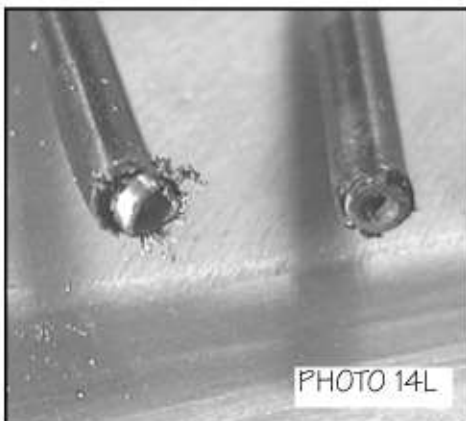


PHOTO 14L

MARK THE SHEATHING AT THE BACK OF THE CABLE CLAMP. REMOVE AND TRIM. GRIND ENDS TO CLEAR THEM.

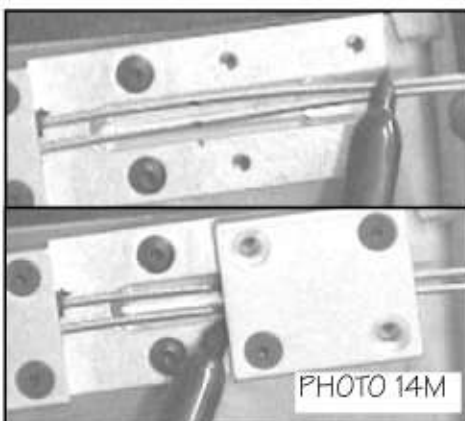


PHOTO 14M

REMOVE ANY SLACK AND MARK THE CABLES AT THE REAR OF THE KNOB BASE AND CUT. **NOTE: CABLES ARE CUT AT THE FRONT OF THE KNOB BRACKET DURING FINAL ASSEMBLY.**

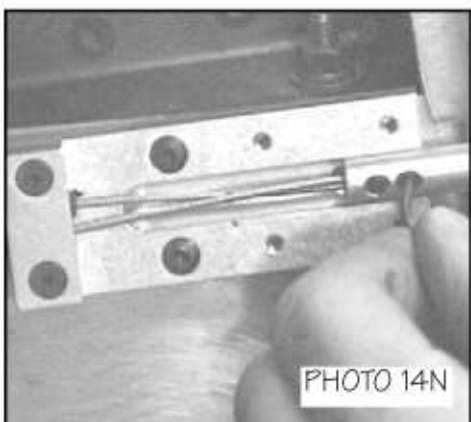


PHOTO 14N

SLIDE CABLE INTO THE KNOB AND TIGHTEN SET SCREWS

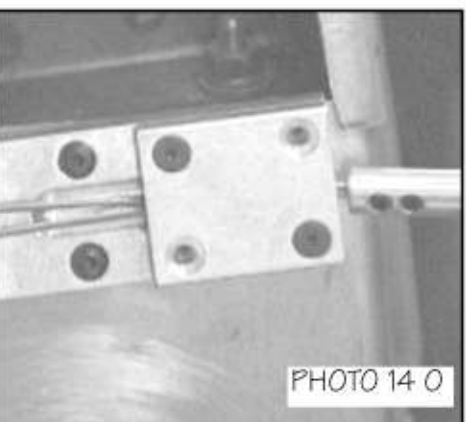


PHOTO 14 O

DURING CONSTRUCTION THE KNOB WILL PULL OUT AND REST ON THE EDGE OF THE BASE.

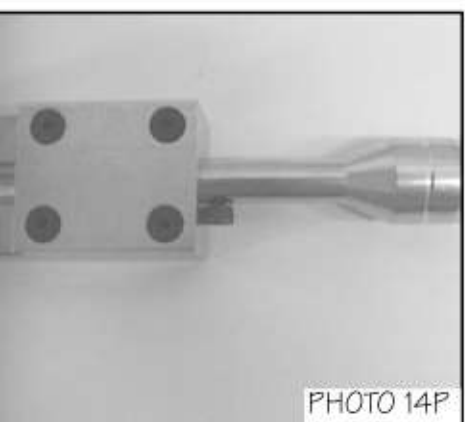


PHOTO 14P

AT FINAL ASSEMBLY THE CABLES ARE CUT SHORTER AND THE CAP SCREW WILL REST ON THE EDGE OF THE KNOB BASE.

VIDEO INDEX
Hoods & Hinges 101

Introduction with Pete Hagan

STAGE 1 Ordering your hood

- STEP 1 How to measure your car
- STEP 2 Measure the tape

STAGE 2 Body and Radiator set up

- STEP 3 Bolt down body and align doors
- STEP 4 Mount and align the radiator
- STEP 5 Mount the grill shell

STAGE 3 Fitting the hood

- STEP 6 Shim the hood and adjust
- STEP 7 Trim edges for clearance
- STEP 8 Adjusting the contour of the hood

STAGE 4 Hinge System Installation

- STEP 9 Set up the fish line guide
- STEP 10 Mounting the hinge rails
- STEP 11 Install the hinge mount blocks
- STEP 12 Adjusting the hood
- STEP 13 Install the hood props
- STEP 14 Cable and pull knob installation

STAGE 5 Side Panels

- STEP 15 Fitting the side panels
- STEP 16 Fastening the side panels

STAGE 6 Final Fitting

- STEP 17 Taping the gaps to be trimmed
- STEP 18 Trimming the panels