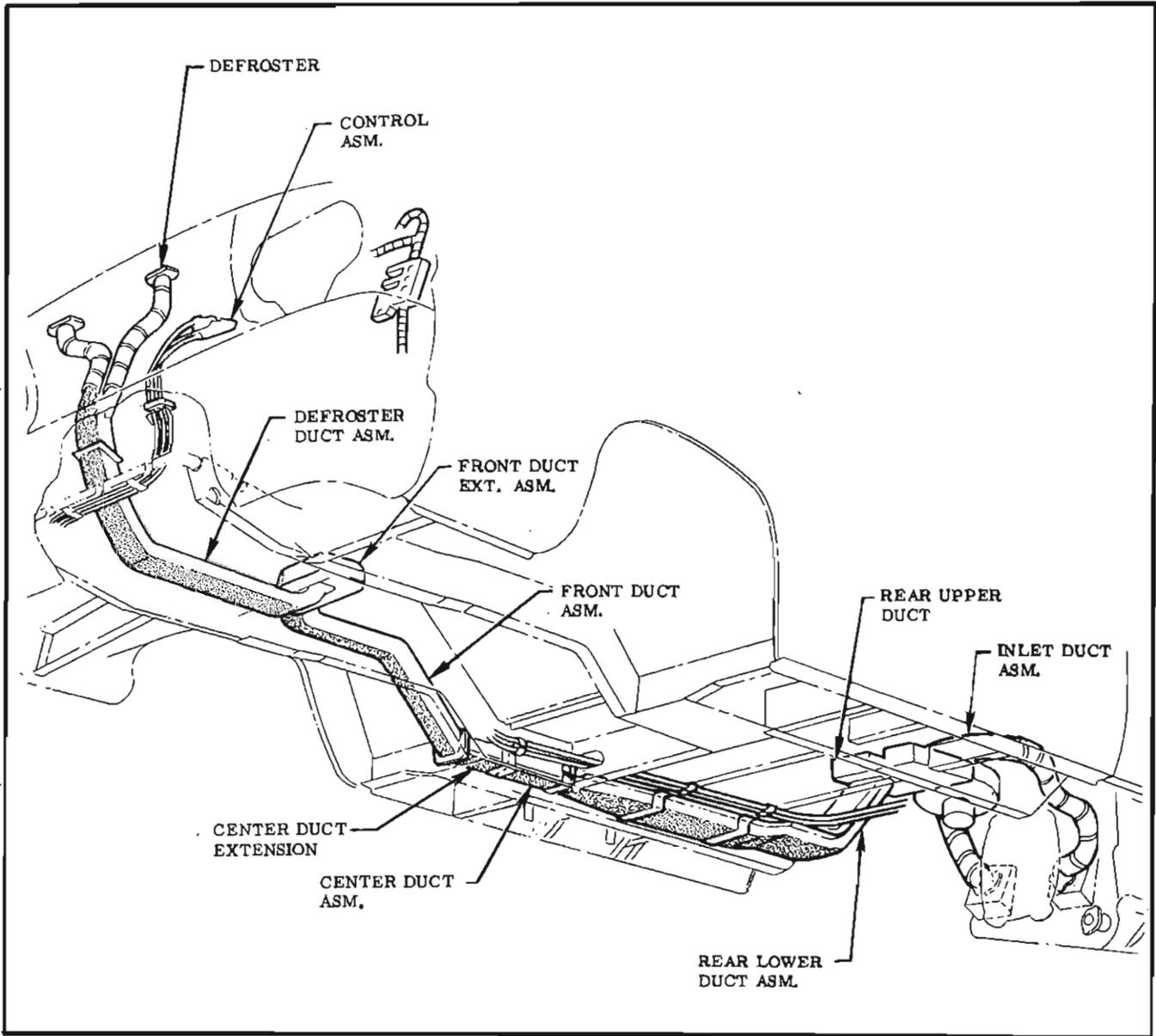


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CAR HEATER & DEFROSTER INSTRUCTION SHEET
CORVAIR 95



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GENERAL MOTORS CORPORATION
DETROIT 2, MICH.

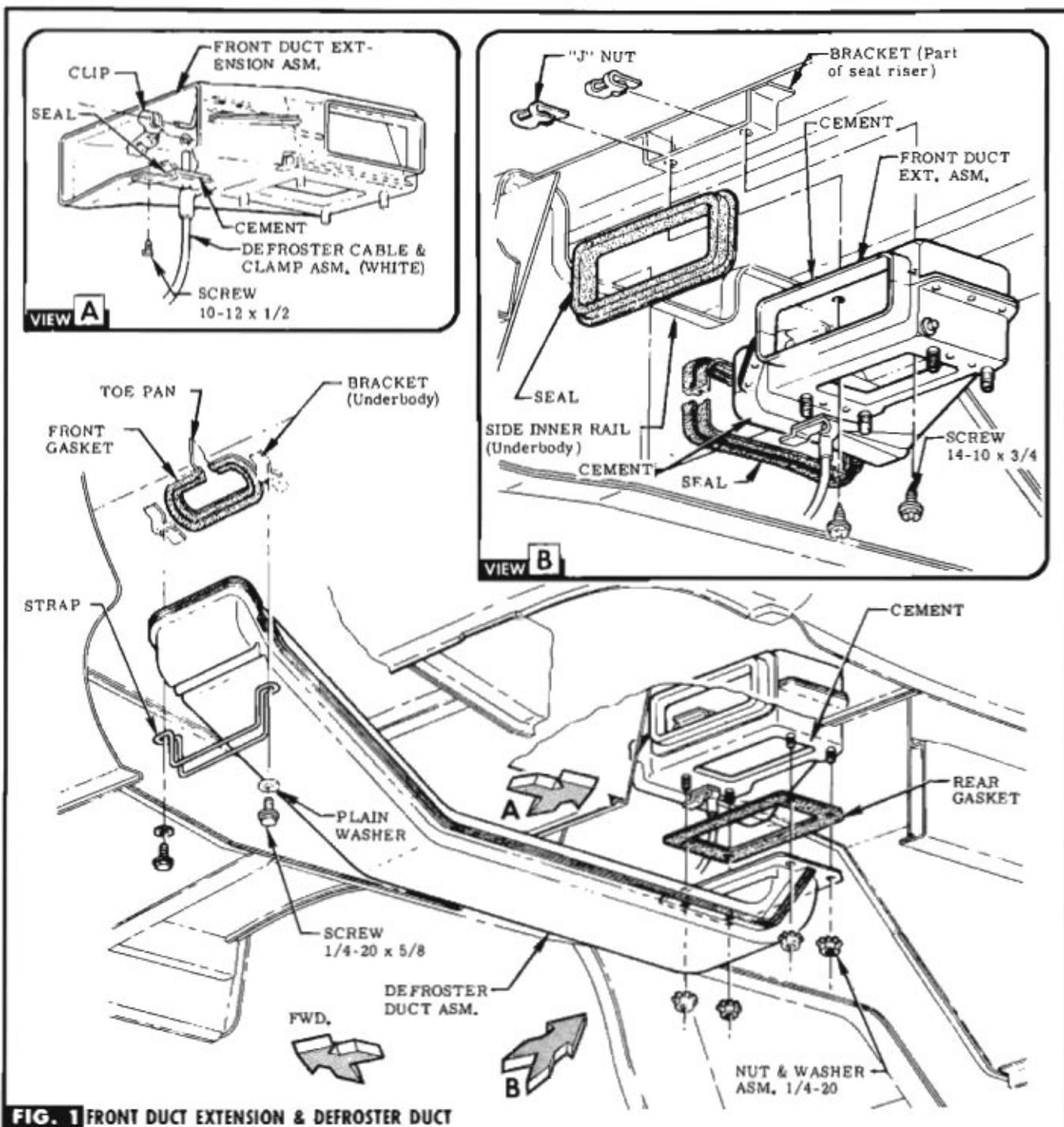


FIG. 1 FRONT DUCT EXTENSION & DEFROSTER DUCT

STEP 1 REMOVE COVER & SCREWS FROM FRONT SEAT RISER & DISCARD.

STEP 2 CEMENT SEAL TO FRONT DUCT EXTENSION, SEE VIEW A.

STEP 3 SLIP DEFROSTER CABLE THRU HOLE IN FRONT DUCT EXTENSION & ATTACH WIRE LOOP TO DEFROSTER CONTROL ROD WITH CLIP (IN BAG B). SEE VIEW A.

STEP 4 ATTACH DEFROSTER CABLE & CLAMP TO FRONT DUCT EXTENSION WITH SCREW (IN BAG B). SEE VIEW A.

STEP 5 INSTALL J-NUTS (IN BAG B) ON BRACKET & CE-

MENT SEALS ON FRONT DUCT EXTENSION, SEE VIEW B.

STEP 6 SLIP FRONT DUCT EXTENSION THRU OPENING IN FRONT SEAT RISER & ALIGN WITH OPENING IN SIDE INNER RAIL, & SECURE WITH SCREWS (IN BAG B). SEE VIEW B.

STEP 7 CEMENT SURFACE OF FRONT DUCT EXTENSION & INSTALL REAR GASKET OVER STUDS, INSTALL FRONT GASKET TO OPENING IN TOE PAN, SEE FIG. 1.

STEP 8 POSITION DEFROSTER DUCT OVER STUDS ON FRONT DUCT EXTENSION & THRU OPENING IN TOE PAN & SECURE WITH STRAP & ATTACHING PARTS (IN BAG B). SEE FIG. 1,

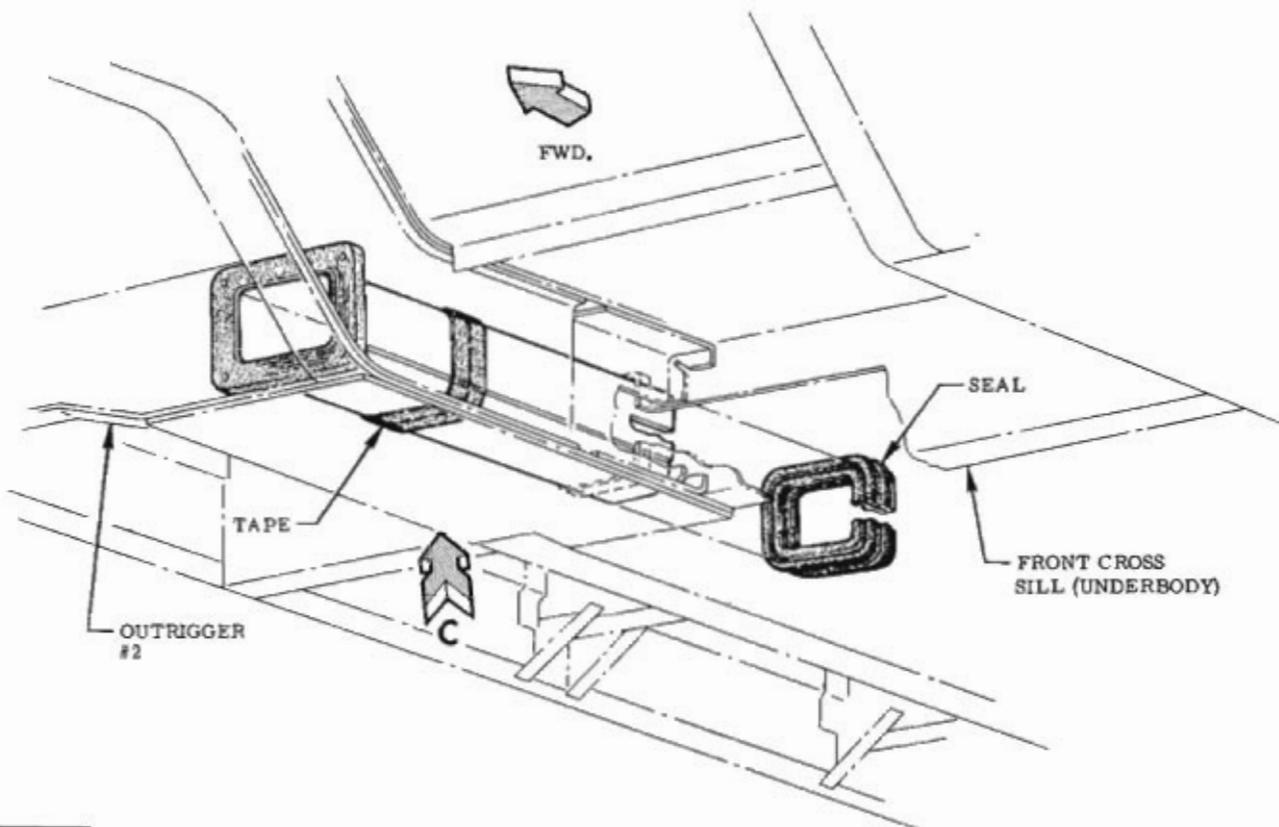
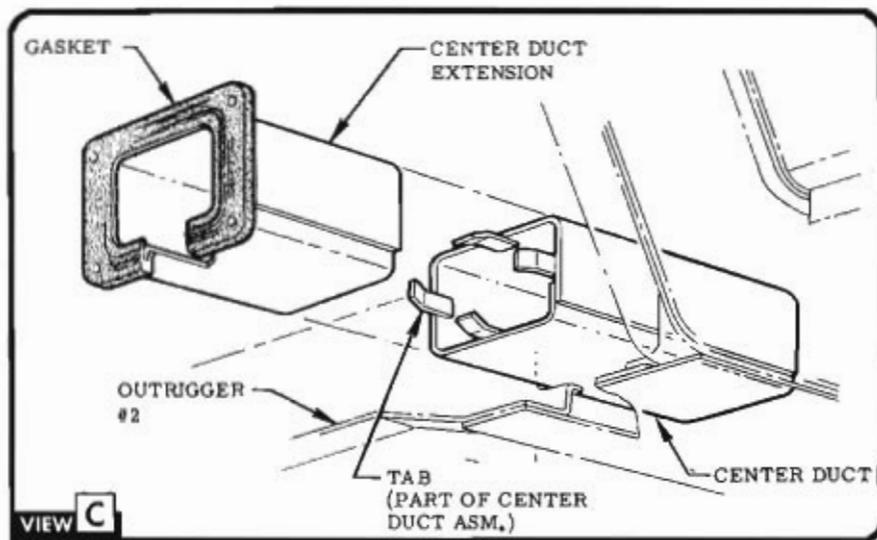


FIG. 2 CENTER DUCT & EXTENSION ASM.

STEP 9 INSTALL GASKET ONTO CENTER DUCT EXTENSION, SEE VIEW C.

STEP 10 SLIDE CENTER DUCT THRU OPENING IN OUTRIGGER #2 ABOUT HALF WAY, SEE VIEW C.

STEP 11 SLIDE CENTER DUCT EXTENSION ONTO TABS & FLUSH WITH CENTER DUCT ASM, SEE VIEW C.

STEP 12 TAPE CENTER DUCT & EXTENSION TOGETHER, SEE FIG. 2.

STEP 13 SLIDE CENTER DUCT & EXTENSION BACKWARDS THRU OPENING IN FRONT CROSS SILL, SEE FIG. 2.

STEP 14 SLIDE SEAL ONTO CENTER DUCT, SEE FIG. 2.

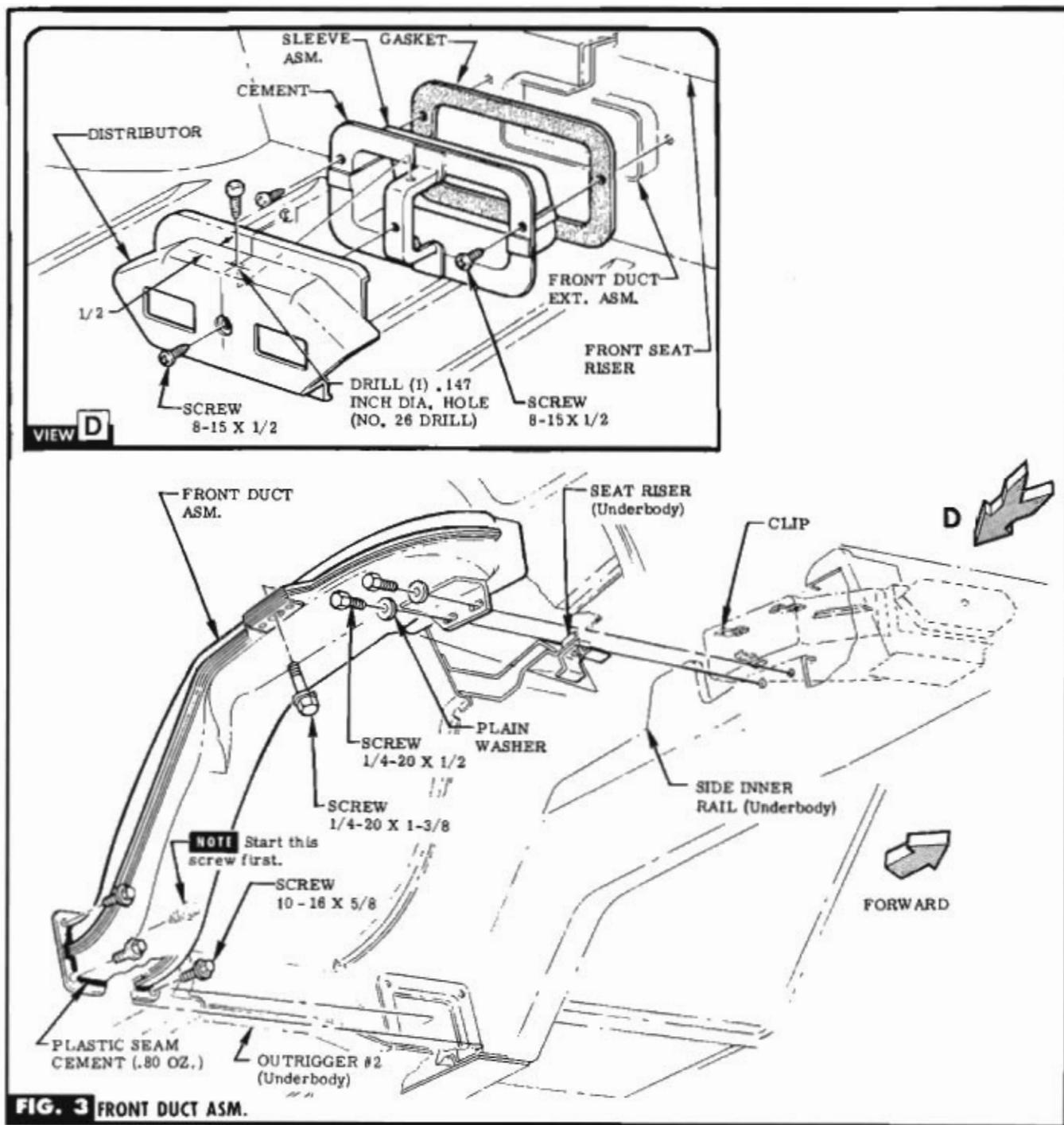


FIG. 3 FRONT DUCT ASM.

STEP 15 CEMENT GASKET TO SLEEVE & SLIDE SLEEVE THRU OPENING IN SEAT RISER & INTO FRONT DUCT EXTENSION. ATTACH WITH SCREWS (IN BAG A). SEE VIEW D.

STEP 16 INSTALL DISTRIBUTOR TO SLEEVE WITH SCREW (IN BAG A). LOCATE, CENTER PUNCH & DRILL HOLE THRU TOP OF DISTRIBUTOR & SLEEVE ASM. COMPLETE ATTACHMENT OF DISTRIBUTOR WITH SCREW (IN BAG A). SEE VIEW D.

STEP 17 REMOVE RIGHT FRONT WHEEL AT THIS TIME FOR

FRONT DUCT ASM. INSTALLATION.

STEP 18 SLIDE FRONT DUCT THRU OPENING IN SIDE INNER RAIL & ONTO CLIPS OF FRONT DUCT EXTENSION & ATTACH WITH SCREWS & WASHERS (IN BAG B). SEE FIG. 3.

STEP 19 ALIGN FRONT DUCT TO OPENING IN OUTRIGGER #2 & ATTACH WITH SCREWS (IN BAG B). ATTACH FRONT DUCT TO SEAT RISER WITH SCREW (IN BAG B). CEMENT ALL AROUND JOINT OPENING ON FRONT DUCT ASM. SEE FIG. 3.

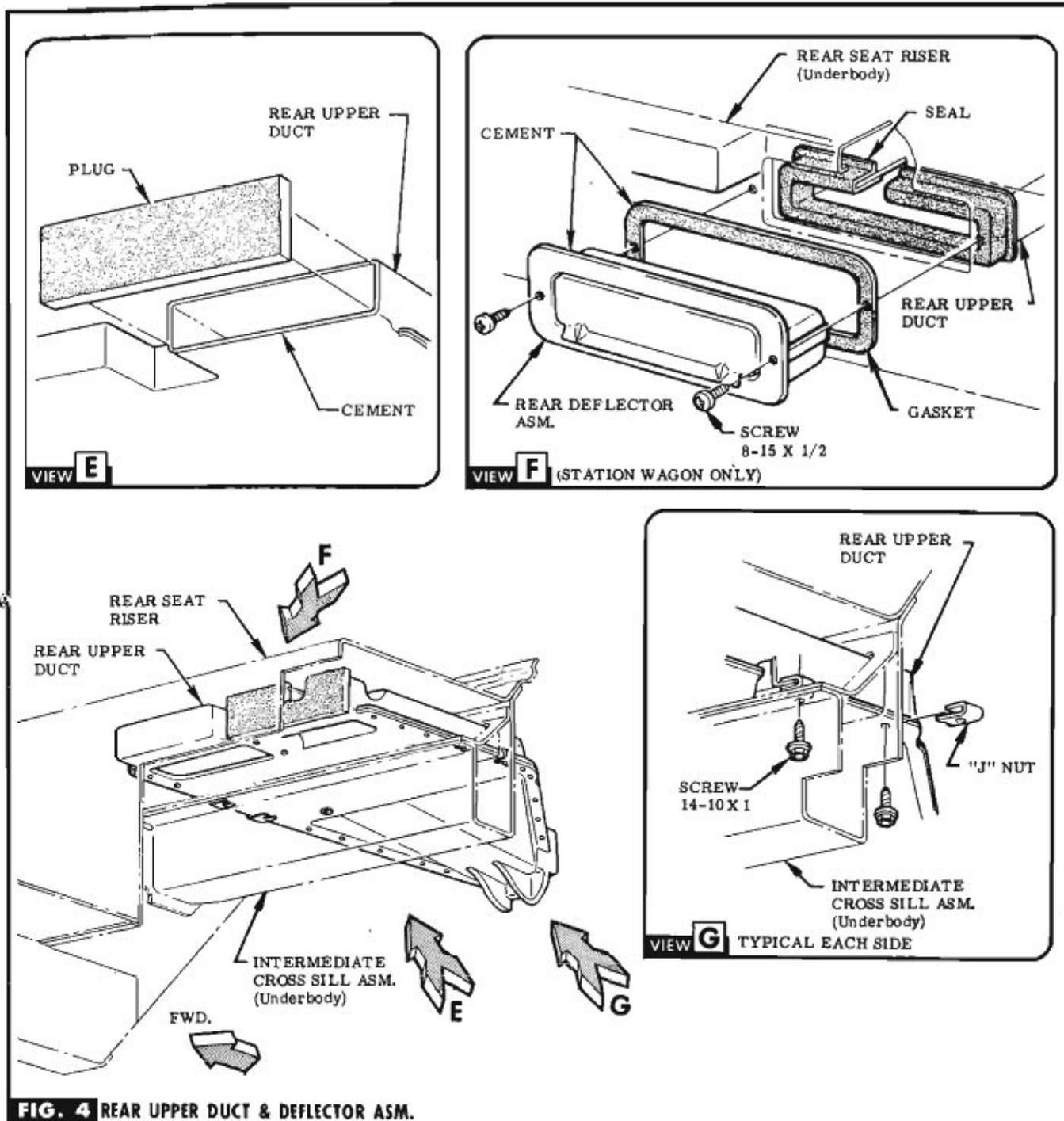


FIG. 4 REAR UPPER DUCT & DEFLECTOR ASM.

STEPS 20, 21 & 22 (STATION WAGON ONLY)

STEP 20 REMOVE COVER PLATE & SCREWS FROM REAR SEAT RISER & DISCARD.

STEP 21 CEMENT SEAL TO OPENING IN REAR UPPER DUCT. SEE VIEW E.

STEP 22 CEMENT GASKET ON REAR DEFLECTOR. SLIDE REAR DEFLECTOR INTO OPENING IN REAR SEAT RISER &

ATTACH WITH SCREWS (IN BAG A). SEE VIEW F.

STEP 23 (ALL EXCEPT STA. WAGON) CEMENT LIP OF REAR UPPER DUCT & SLIDE DUCT THRU OPENING IN INTERMEDIATE CROSS SILL ASM. SEE VIEW E.

STEP 24 ATTACH J-NUTS (IN BAG C) TO FLANGE OF REAR UPPER DUCT & SLIDE DUCT THRU OPENING IN INTERMEDIATE CROSS SILL ASM. TO ALIGN HOLES & SECURE WITH SCREWS (IN BAG B). SEE VIEW G.

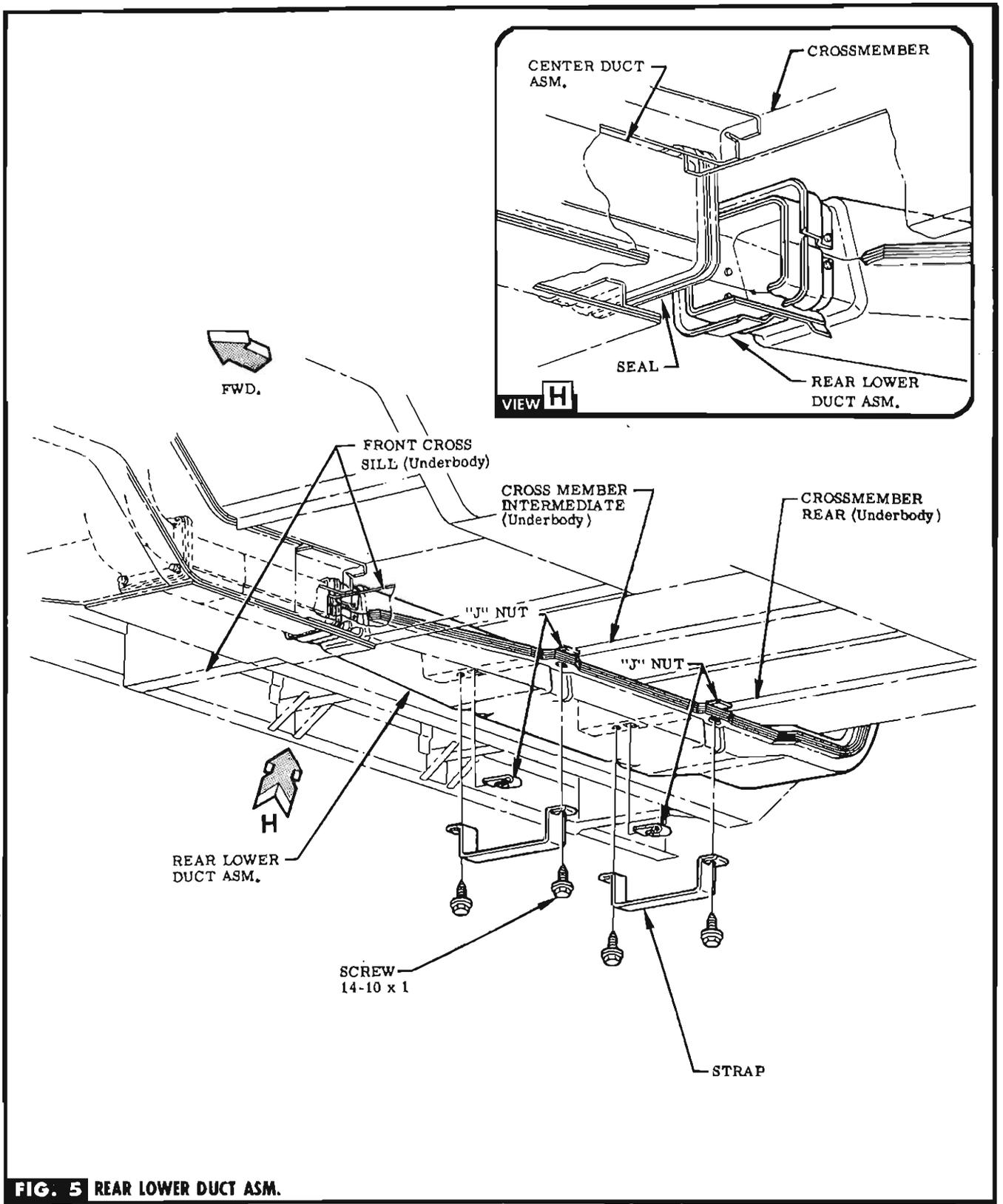


FIG. 5 REAR LOWER DUCT ASM.

STEP 25 DISCONNECT RIGHT HAND BRAKE CABLE BEFORE INSTALLING REAR LOWER DUCT.

STEP 26 SLIDE REAR LOWER DUCT ONTO SEAL OF CENTER DUCT & SLIP J-NUTS (IN BAG B) INTO PLACE ON

INTERMEDIATE & REAR CROSSMEMBER. SEE VIEW H.

STEP 27 INSTALL STRAPS AT NOTCHES IN REAR LOWER DUCT WITH SCREWS (LOOSELY ASSEMBLED) (IN BAG B). SEE FIG. 5.

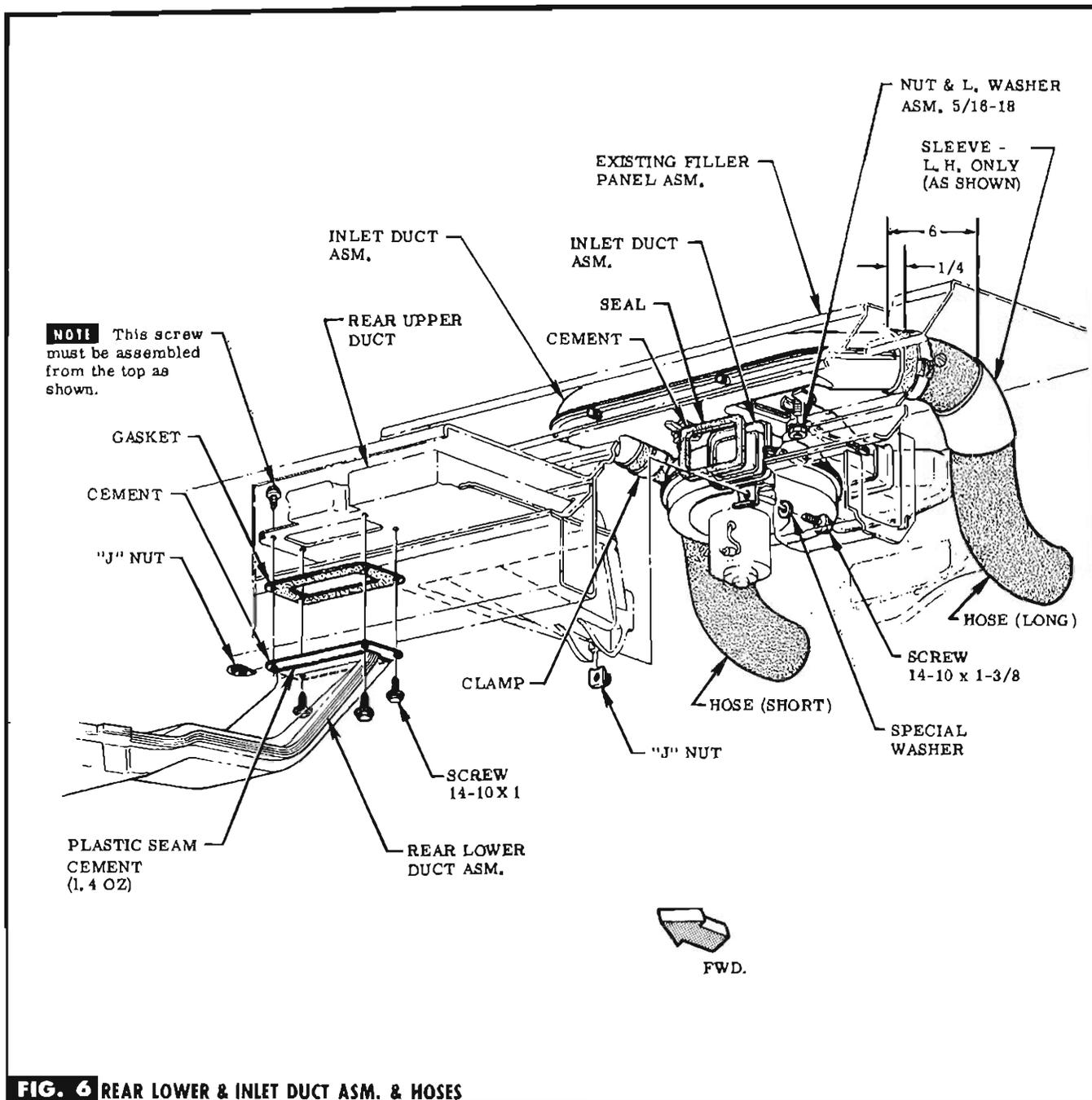


FIG. 6 REAR LOWER & INLET DUCT ASM. & HOSES

STEP 28 REMOVE FILLER PANEL ASM. & ATTACHING PARTS & RETAIN.

STEP 29 SLIDE CLAMPS (IN BAG D) & SLEEVE (L. H. ONLY) ONTO HOSES. SEE FIG. 6.

STEP 30 SLIDE HOSES ONTO INLET DUCT & TIGHTEN CLAMPS. SEE FIG. 6. **NOTE** Short hose must go on R. H. side & long hose on L. H. side.

STEP 31 LOOSELY INSTALL NUT ASM. (IN BAG C) TO FILLER PANEL. SLIP INLET DUCT ASM. ONTO STUDS & TIGHTEN. SEE FIG. 6.

NOTE Position ends of all clamps 3/8 to 1/2 inches away from sheet metal to avoid conditions which might cause vibration noises & for service.

STEP 32 SLIP J-NUT (IN BAG C) INTO PLACE. CEMENT SEAL TO INLET DUCT. SEE FIG. 6.

STEP 33 LOWER FILLER PANEL IN PLACE & ATTACH INLET DUCT TO REAR UPPER DUCT WITH SCREW, WASHER (IN BAG C). SEE FIG. 6.

STEP 34 ATTACH J-NUT (IN BAG B) & CEMENT GASKET TO REAR UPPER DUCT & CEMENT ALL AROUND JOINT OPENING ON REAR LOWER DUCT. SEE FIG. 6.

STEP 35 ATTACH REAR LOWER DUCT TO REAR UPPER DUCT WITH SCREWS (IN BAG B). SEE FIG. 6.

NOTE Tighten one screw from the bottom & assemble other screws loosely as shown. Position rear lower duct asm. & tighten all screws securely.

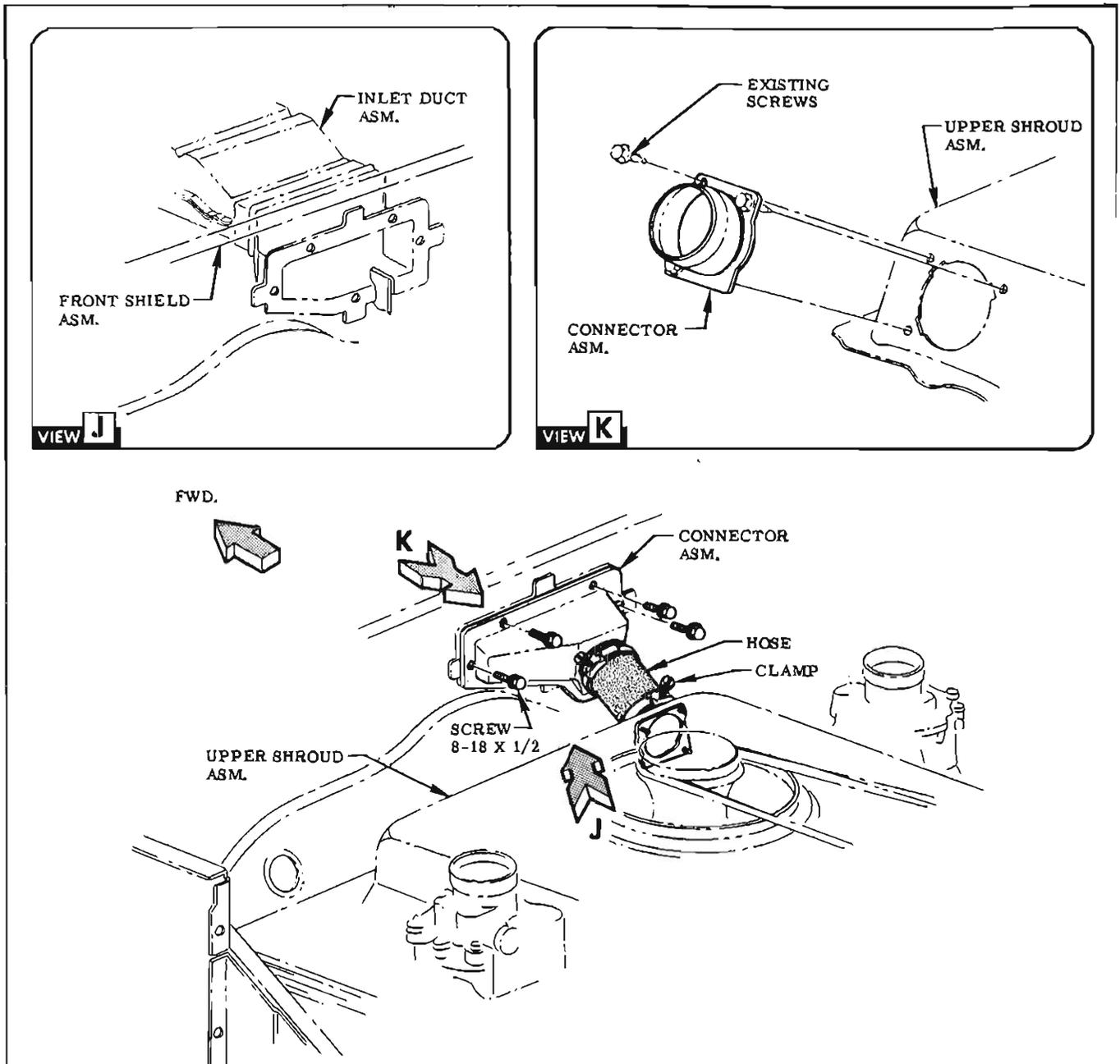


FIG. 7 CONNECTORS & HOSES

STEP 36 REMOVE & RETAIN ENGINE COMPARTMENT COVER.

STEP 37 REMOVE & DISCARD AIR INLET DUCT COVER.

STEP 38 REACH THRU OPENING & PULL INLET DUCT THRU. INSTALL CONNECTOR WITH SCREWS (IN BAG D). SEE FIG. 7 & VIEW J.

STEP 39 REMOVE & DISCARD COVER FROM UPPER SHROUD ASM. & RETAIN SCREWS.

STEP 40 INSTALL CONNECTOR ASM. & SECURE WITH EXISTING SCREWS. SEE VIEW K.

STEP 41 PLACE CLAMPS ON THE HOSE & INSTALL HOSE. TIGHTEN CLAMPS. SEE FIG. 7.

NOTE! Position ends of all clamps $3/8$ to $1/2$ inches away from sheet metal to avoid conditions which might cause vibrator noises & for service.

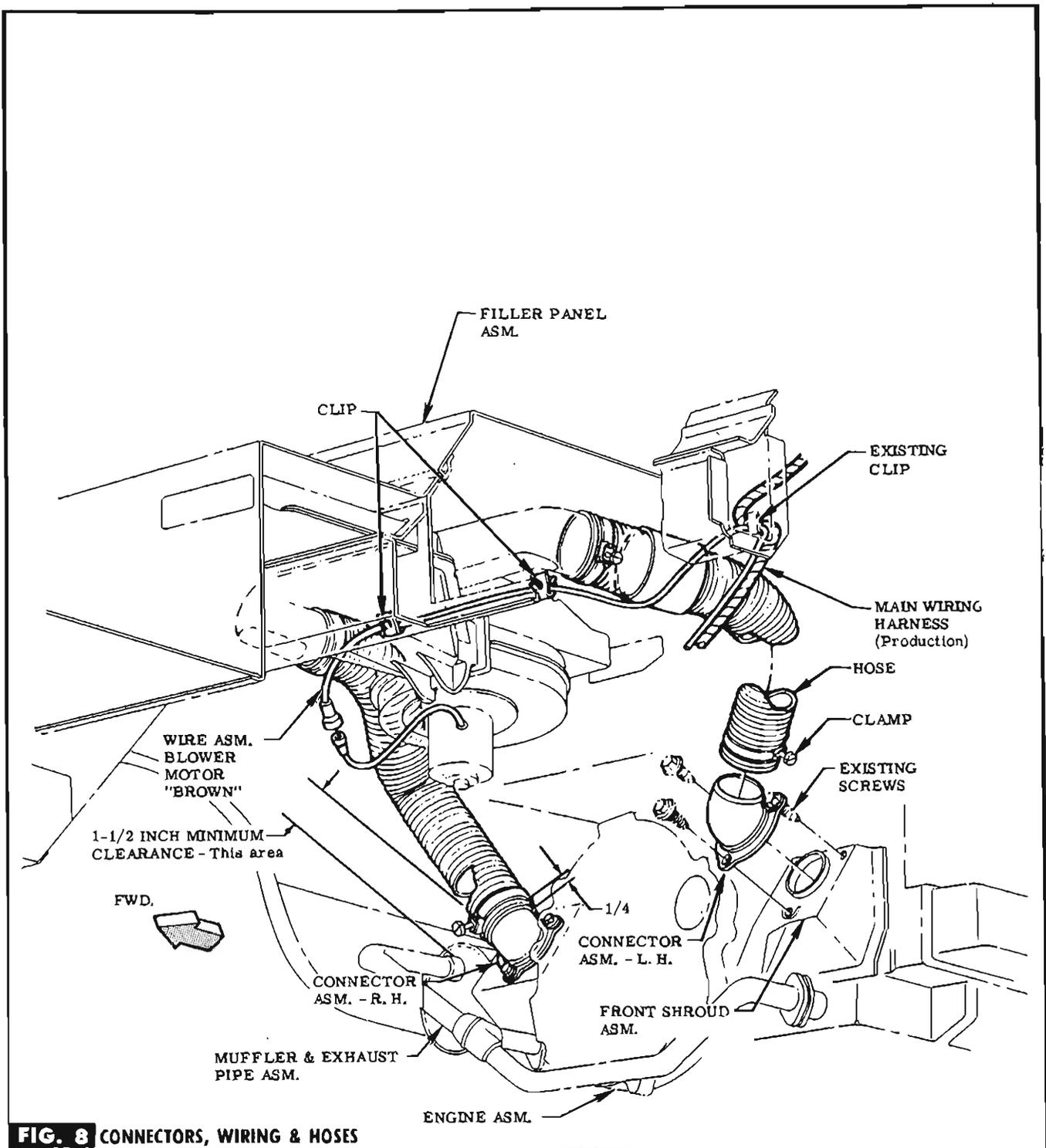


FIG. 8 CONNECTORS, WIRING & HOSES

STEP 42 REMOVE COVERS FROM FRONT SHROUD ASM. & DISCARD. RETAIN SCREWS.

STEP 43 INSTALL CONNECTORS TO FRONT SHROUD ASM. WITH EXISTING SCREWS. SEE FIG. 8.

STEP 44 SLIP CLAMPS (IN BAG D) ON HOSES, SLIDE HOSES ON CONNECTORS. POSITION & TIGHTEN CLAMPS. SEE

FIG. 8. NOTE Rotate R. H. hose to obtain clearance shown.

STEP 45 INSTALL CLIPS (IN BAG A) TO INTERMEDIATE CROSS SILL. CONNECT BROWN WIRE PROVIDED TO BLOWER MOTOR LEAD, THEN ROUTE WIRE THRU CLIPS OVER TO MAIN HARNESS & FORWARD ALONG HARNESS THRU EXISTING CLIPS. SEE FIG. 8. **NOTE** Position ends of all clamps 3/8 to 1/2 inches away from sheet metal to avoid conditions which might cause vibration noises & for service.

NOTE See Fig. 11 for routing of cables in cab & attachment to control asm.

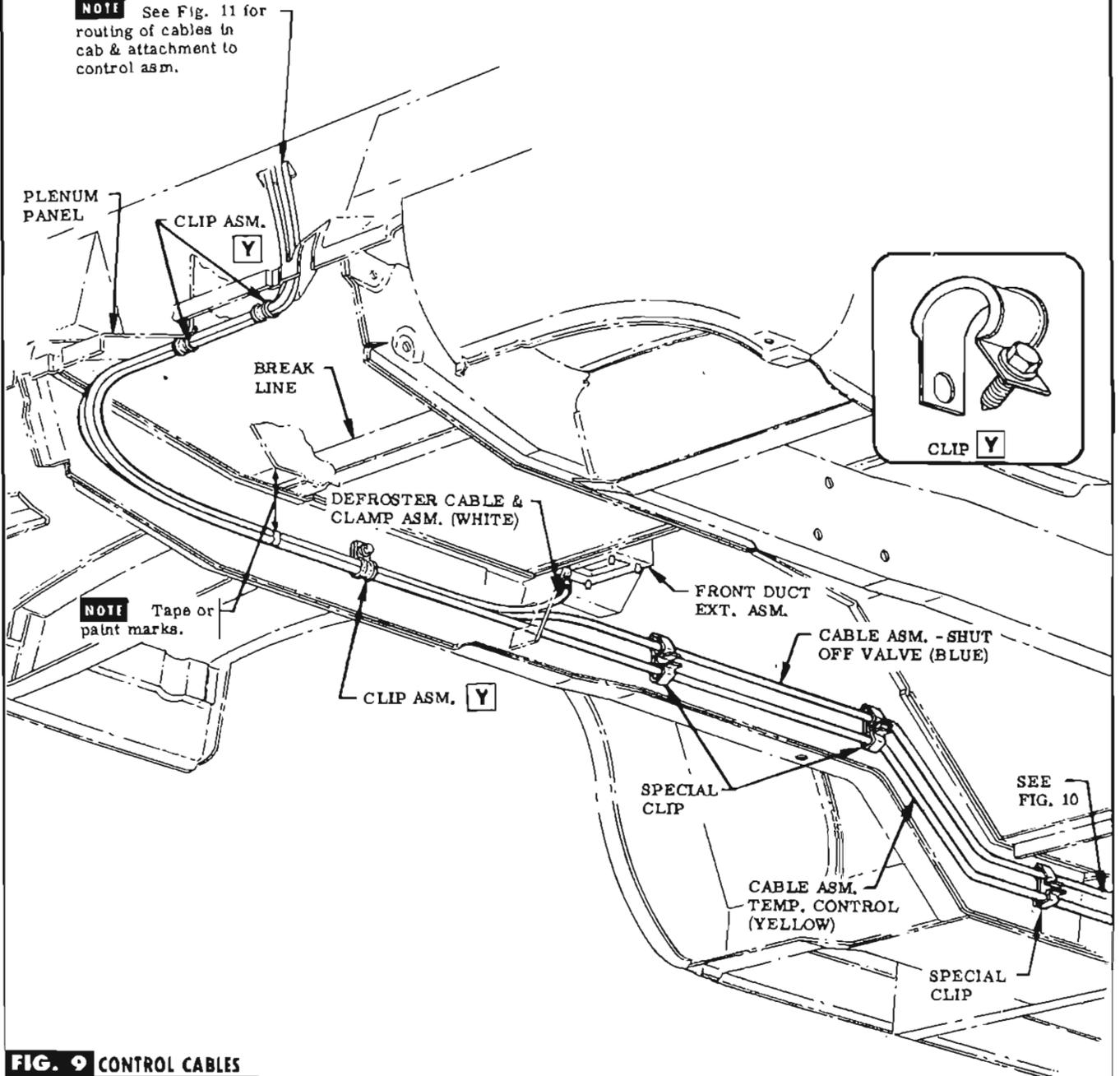


FIG. 9 CONTROL CABLES

STEP 46 ALIGN TAPE OR PAINT MARKS ON THE CABLES DIRECTLY BELOW FLOOR TO TOE PANEL BREAK LINE BEFORE CLIPPING TO UNDERBODY. ROUTE CABLES ALONG RIGHT SIDE RAIL & ATTACH TO EXISTING HOLES IN PLENUM PANEL & SIDE RAIL WITH CLIPS (IN BAG B). SEE FIG. 9.

STEP 47 ATTACH SHUT OFF CABLE TO TEMP. CABLE WITH CLIPS (IN BAG B) & INSERT CLIPS INTO EXISTING HOLES IN SIDE RAIL. SEE FIG. 9.

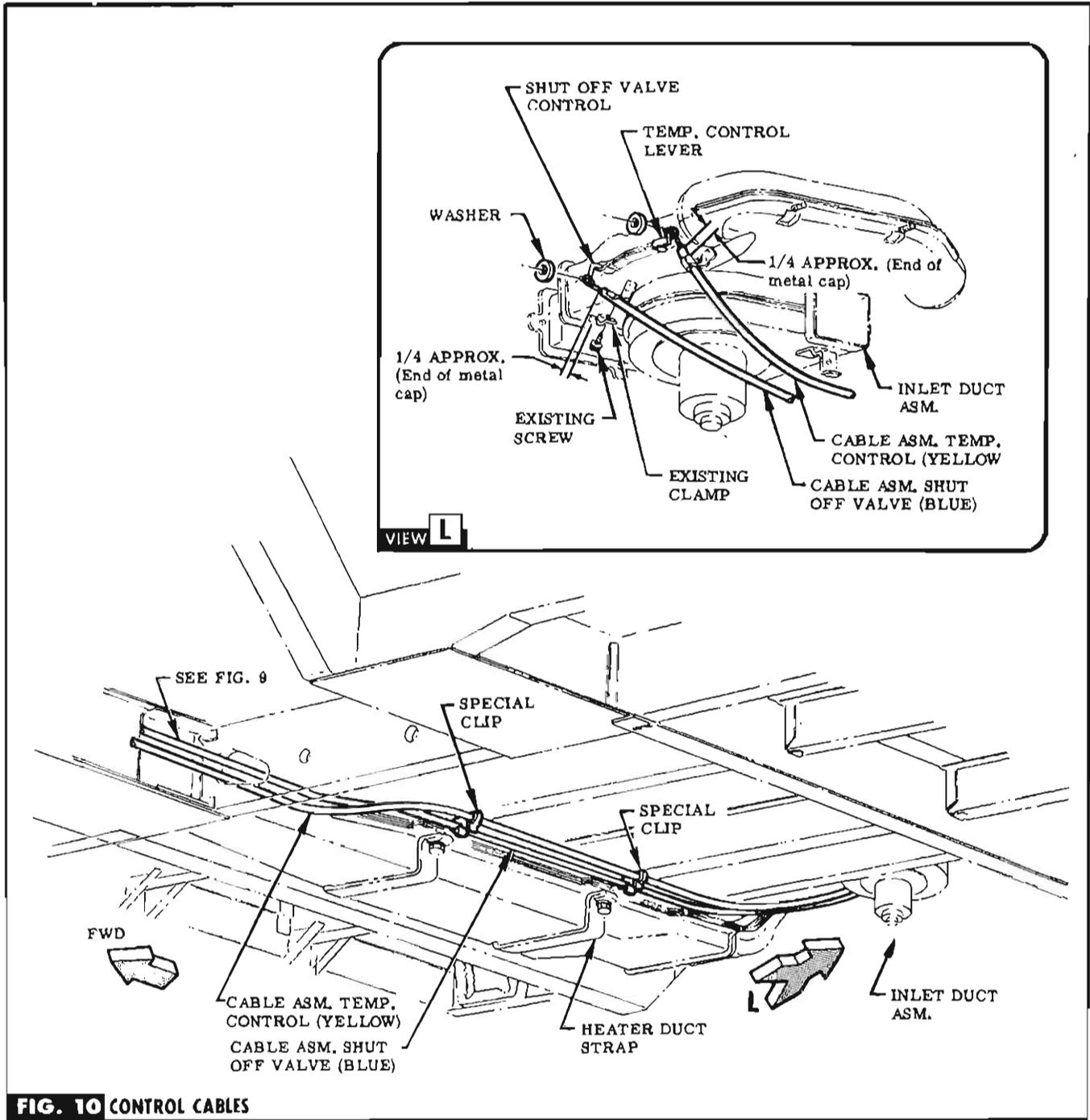


FIG. 10 CONTROL CABLES

NOTE: For front installation of cables in vehicles, See Fig. 9.

STEP 48 INSTALL CLIPS (IN BAG B) TO INTERMEDIATE & REAR CROSS MEMBERS ALONG SIDE DUCT STRAP ATTACHMENTS. SEE FIG. 10.

STEP 49 ROUTE TEMP. CONTROL & SHUT OFF VALVE CABLES REARWARD THRU OPENING IN CROSS MEMBER &

THRU CLIPS JUST INSTALLED ON INTERMEDIATE & REAR CROSS MEMBERS. SEE FIG. 10.

STEP 50 ATTACH THE TWO CONTROL CABLES TO THE INLET DUCT WITH EXISTING CLAMPS & SCREWS. SECURE WIRE LOOPS OF CABLES TO THEIR RESPECTIVE CONTROL WITH RETAINING WASHERS (IN BAG A). SEE VIEW L.

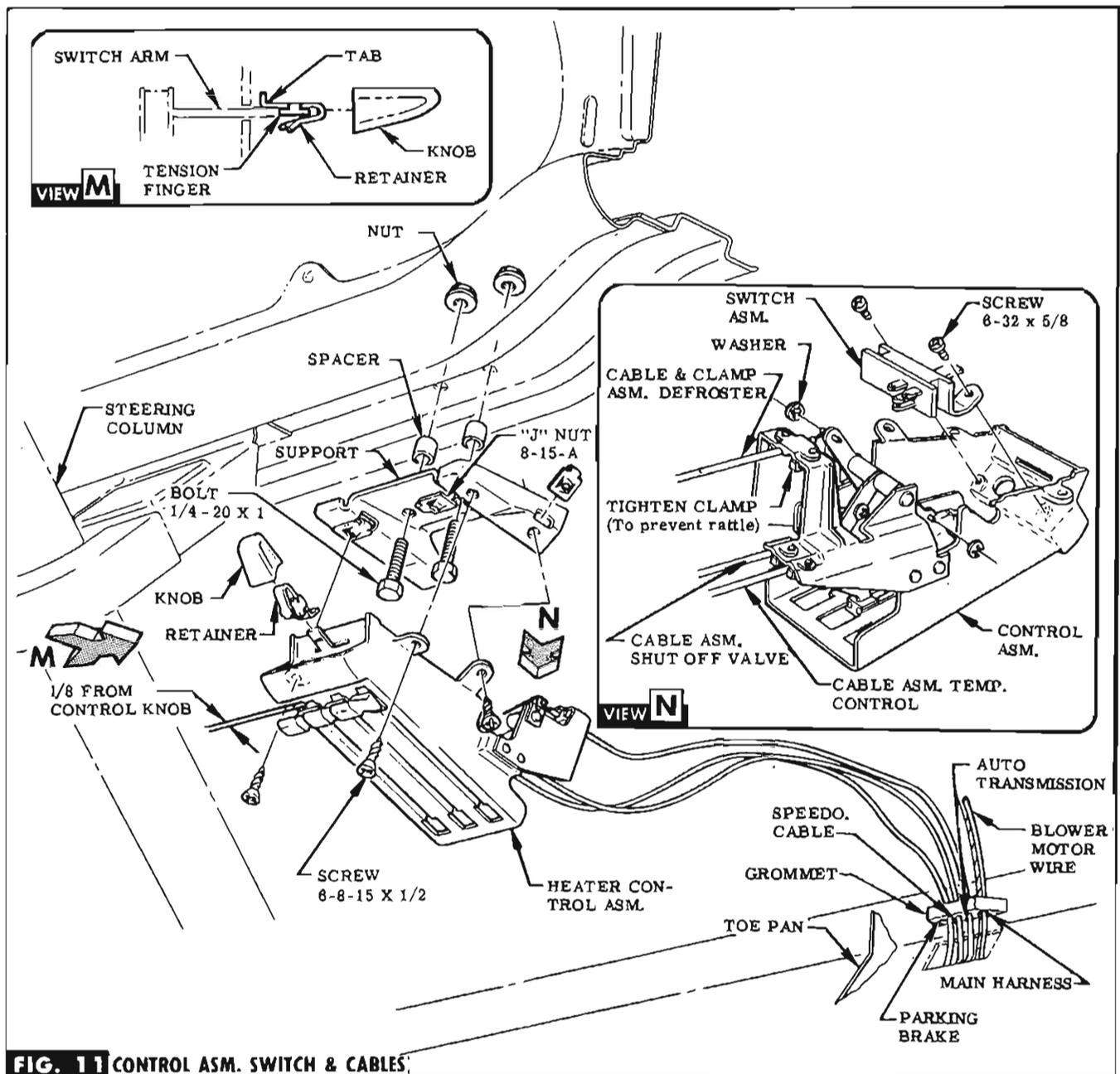


FIG. 11 CONTROL ASM. SWITCH & CABLES

STEP 51 REMOVE GROMMET RETAINER FROM TOE PANEL & DISCARD EXISTING GROMMET. ROUTE CONTROL CABLES & BLOWER MOTOR WIRE THRU OPENING IN TOE PANEL & THRU GROMMET (IN BAG A). POSITION GROMMET & THEN SECURE WITH EXISTING RETAINER. SEE FIG. 11.

STEP 52 ATTACH SWITCH TO HEATER CONTROL WITH SCREWS (IN BAG A). SEE VIEW L.

STEP 53 MOVE AIR, HEAT & DEFROSTER KNOBS DOWN SO THAT LEVERS ARE 1/8 INCH FROM TOP OF SLOT. THE CONTROL LEVERS ARE TO BE POSITIONED AS SHOWN WHEN MAKING THE ATTACHMENT OF EACH END OF THE CONTROL CABLES. AFTER THE UNIT IS COMPLETELY INSTALLED IN THE VEHICLE & ALL LEVERS ARE SET IN THE "OFF" OR "UP" POSITION, THE FRICTION IN THE CONTROL & CABLES IS SUFFICIENT TO HOLD THE LEVERS TO WITHIN 1/8 OF THE TOP OF THE SLOT IN THE CONTROL FACE PLATE. SEE FIG. 11.

STEP 54 ATTACH THE THREE CABLES TO THE HEATER CONTROL WITH EXISTING CLAMPS & SCREWS. SECURE

WIRE LOOPS OF CABLES TO THEIR RESPECTIVE CONTROL LEVERS WITH RETAINING WASHERS (IN BAG A). SEE FIG. 11.

NOTE Tighten remaining clamp to prevent rattle.

STEP 55 INSTALL KNOB (IN BAG A) ON SWITCH LEVER WITH RETAINER (IN BAG A). SEE FIG. 11 & VIEW M.

NOTE Assemble retainer all the way on switch arm with tension fingers resting on edges of arm as shown, prior to assembly of knob. With switch arm in "OFF" position, assemble knob to arm with a straight push until knob contacts tab on back of retainer. A maximum force of 40 Lbs. will assemble tab in place. **CAUTION** Do not rock knob vertically during assembly as this will bend switch arm.

STEP 56 INSTALL HEATER CONTROL SUPPORT TO INSTRUMENT PANEL WITH BOLTS, SPACERS & NUTS (IN BAG A). SEE FIG. 11.

STEP 57 SLIP J-NUTS (IN BAG A) IN PLACE ON SUPPORT & INSTALL HEATER CONTROL TO SUPPORT WITH SCREWS (IN BAG A). SEE FIG. 11.

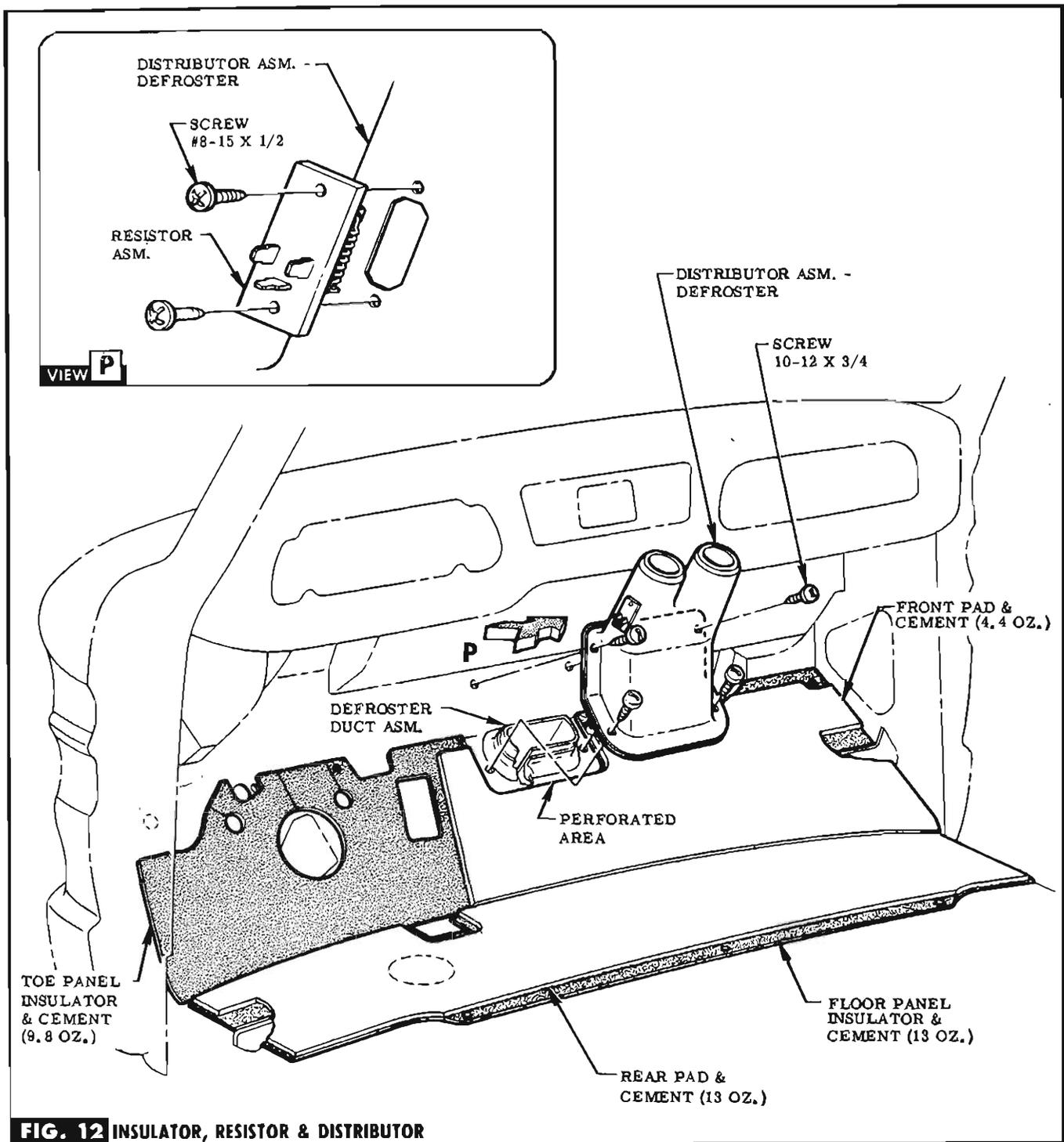


FIG. 12 INSULATOR, RESISTOR & DISTRIBUTOR

STEP 58 REMOVE EXISTING FLOOR MAT & CEMENT PROVIDED PADS TO UNDERBODY OF FLOOR MAT. CUT OUT PERFORATED AREA. SEE FIG. 1.

STEP 59 CEMENT INSULATORS TO TOE PANEL & FLOOR PANEL, & INSTALL FLOOR MAT. SEE FIG. 12.

STEP 60 ATTACH RESISTOR (IN BAG A) TO DISTRIBUTOR WITH SCREWS (IN BAG A). SEE VIEW P.

STEP 61 INSTALL DISTRIBUTOR WITH SCREWS (IN BAG A). SEE FIG. 12.

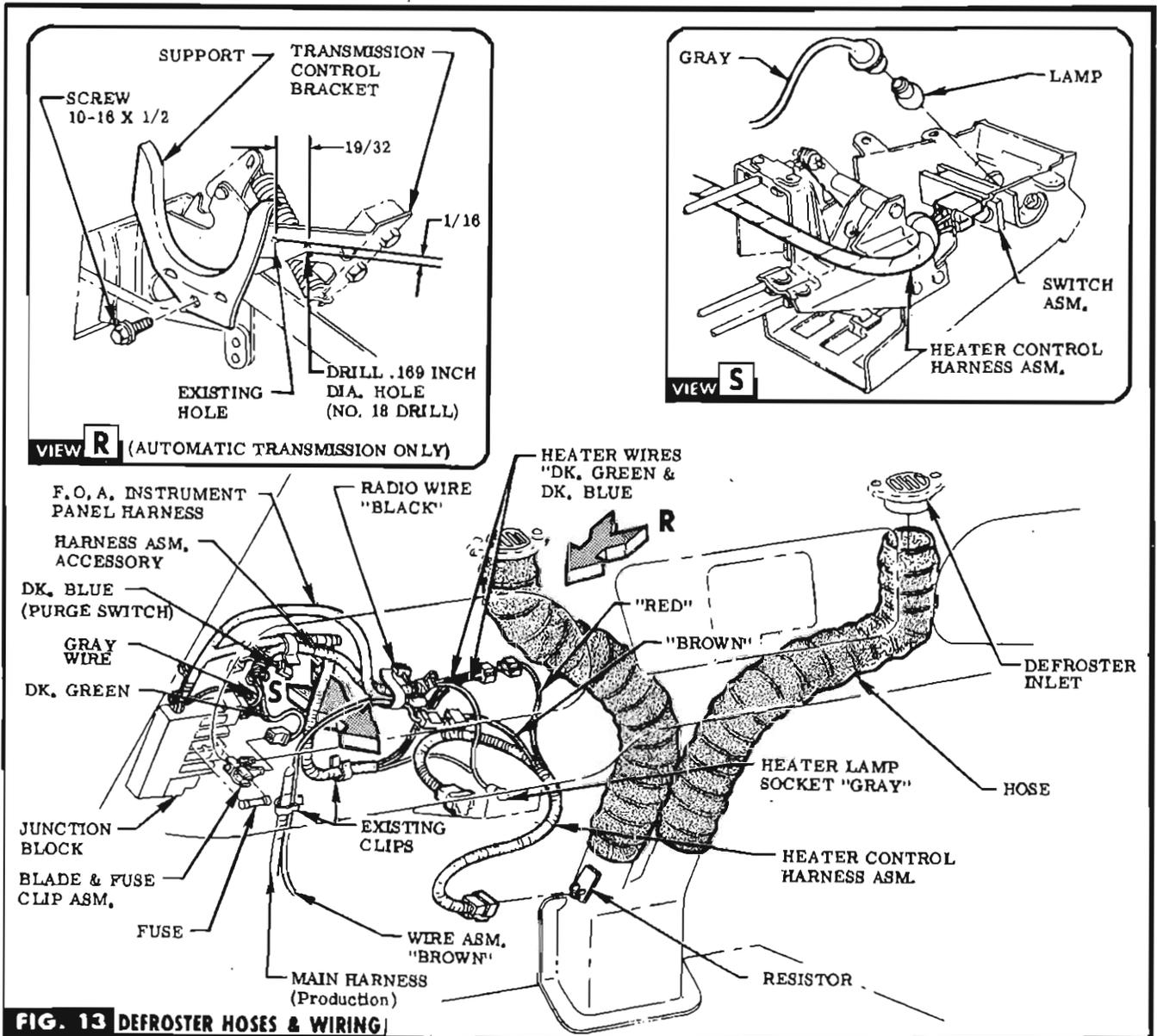


FIG. 13 DEFROSTER HOSES & WIRING

STEP 62 AUTOMATIC TRANSMISSION EXISTS, INSTALL HOSE SUPPORT ON TRANSMISSION CONTROL BRACKET WITH SCREW PROVIDED (IN BAG A). SEE VIEW R.

STEP 63 REMOVE INSTRUMENT PANEL COMPARTMENT. INSTALL DEFROSTER HOSES ON INLETS & DISTRIBUTOR ASM. SEE FIG. 13. REPLACE INSTRUMENT PANEL COMPARTMENT. **NOTE** If automatic transmission exists route L, H. hoses over hose support.

STEP 64 IF NEITHER AN F.O. A. OR ACCESSORY HARNESS EXISTS ON VEHICLE, PROCURE ACCESSORY HARNESS (UNIT NO. 988350) & INSTALL.

STEP 65 INSTALL BLADE & FUSE CLIP INTO RECEPTACLE MARKED "HEATER - B.U. LPS." ON JUNCTION BLOCK. SEE FIG. 13.

STEP 66 UNTAPE DK. GREEN WIRE CONNECTOR FROM ACCESSORY OR F.O. A. HARNESS & PLUG INTO FUSE CLIP PREVIOUSLY INSTALLED. SEE FIG. 13.

STEP 67 IF ACCESSORY HARNESS HAS BEEN INSTALLED UNTAPE & PLUG GRAY LEAD CONNECTOR INTO BACK OF JUNCTION BLOCK INTO RECEPTACLE MARKED "PANEL LPS." SEE FIG. 13. **NOTE** If radio exists, wire will always be connected.

STEP 68 PLUG ONE END OF HEATER HARNESS INTO RESISTOR ON DISTRIBUTOR & OTHER END INTO SWITCH ON CONTROL. UNTAPE GRAY LEAD. INSERT LAMP (IN BAG A) INTO SOCKET & PLUG INTO CONTROL. SEE FIG. 13 & VIEW S.

STEP 69 CONNECT RED LEAD FROM HEATER HARNESS WITH DK. BLUE & GREEN WIRE CONNECTOR (FROM F.O. A. OR ACCESSORY HARNESS). ROUTE BROWN LEAD (FROM GROMMET IN TOE PANEL) ALONG EXISTING HARNESS & CONNECT TO BROWN LEAD OF HEATER HARNESS. SEE FIG. 13.

STEP 70 INSERT FUSE INTO FUSE CLIP ASM. PREVIOUSLY INSTALLED. SEE FIG. 13.

STEP 71 REPLACE PARTS PREVIOUSLY REMOVED.