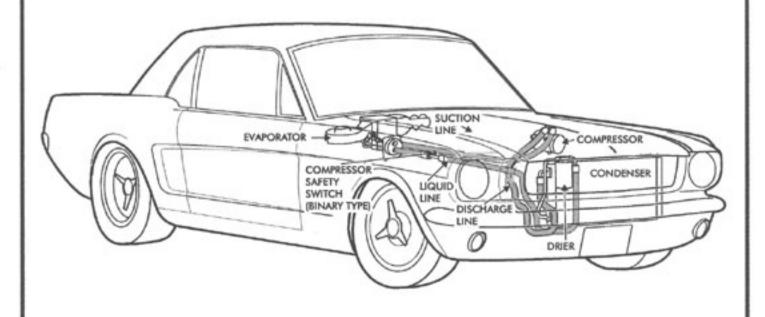


Installation Instructions for

1964½ - 66 FORD MUSTANG

(55066-VFZ-A)



10305 I.H. 35 N. - SAN ANTONIO, TX. - 78233 - ph.210-654-7171 - fax 210-654-3113

1964 1/2 - 66 MUSTANG

IMPORTANT NOTICE-PLEASE READ

FOR MAXIMUM SYSTEM PERFORMANCE VINTAGE AIR RECOMMENDS THE FOLLOWING:

32065-VFF - V/8 FAN SHROUD

32064-VFF - 6 CYL. FAN SHROUD

70064-VFR - RADIATOR

SERVICE INFO:

EVACUATE THE SYSTEM FOR 35-45 MINUTES WITH SYSTEM COMPONENTS (DRIER, COMPRESSOR, EVAPORATOR AND CONDENSER) AT A TEMPERATURE OF AT LEAST 85° F. ON A COOL DAY THE COMPONENTS CAN BE HEATED WITH A HEAT GUN OR BY RUNNING THE ENGINE WITH THE HEATER ON BEFORE EVACUATING.

LEAK CHECK AND CHARGE TO SPECIFICATIONS.

REFRIGERANT CAPACITIES

134a SYSTEM

CHARGE WITH 1.8 LBS. OF REFRIGERANT

R-12 SYSTEM

CHARGE WITH 2.0 LBS. OF REFRIGERANT

LUBRICANT CAPACITIES

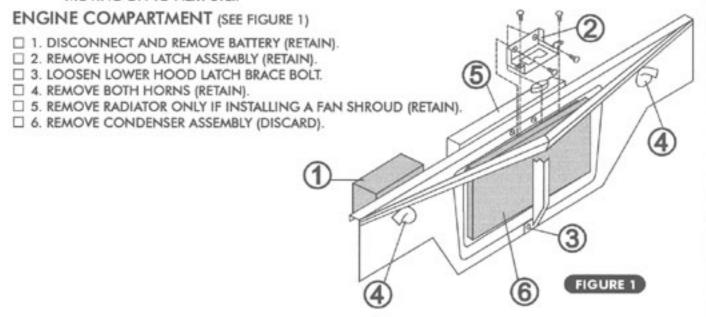
NEW COMPRESSOR - NO ADDITIONAL OIL NEEDED USED COMPRESSOR - CONSULT VINTAGE AIR



1964 ½ - 66 FORD MUSTANG

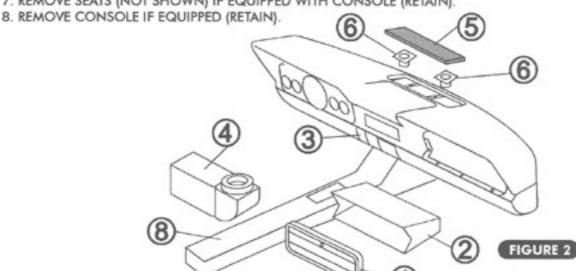


BEFORE STARTING THE AIR CONDITIONING INSTALLATION, CHECK FOR PROPER OPERATION OF ALL COMPONENTS (RADIO, LIGHTS, WIPERS, ETC.). STUDY THE INSTRUCTIONS, ILLUSTRATIONS AND DIAGRAMS. FOR EASE OF INSTALLATION CHECK OFF () EACH PROCEDURE PRIOR TO MOVING ON TO NEXT STEP.



PASSENGER COMPARTMENT (SEE FIGURE 2)-

- □ 1. REMOVE GLOVE BOX DOOR (RETAIN).
- 2. REMOVE GLOVE BOX (DISCARD).
- □ 3. REMOVE OEM HEATER CONTROLS (RETAIN).
- 4. REMOVE OEM HEATER (DISCARD).
- 5. REMOVE DASH SPEAKER GRILLE (RETAIN).
- ☐ 6. REMOVE OEM DEFROST DUCTS (DISCARD).
- 7. REMOVE SEATS (NOT SHOWN) IF EQUIPPED WITH CONSOLE (RETAIN).



54 % - 66 MUSTANG 4/30/02

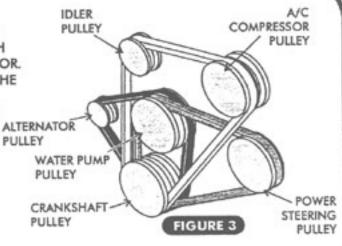


COMPRESSOR & BRACKETS

- □ REFER TO INSTRUCTIONS INCLUDED WITH THE A/C BRACKET AND USE THE HARDWARE INCLUDED WITH THE BRACKET FOR MOUNTING THE A/C COMPRESSOR.
- □ INSTALL COMPRESSOR ON BRACKET AND ORIENT THE SUCTION AND DISCHARGE PORTS AS SHOWN IN FIGURE 24 & 25, PG. 10 FOR STRAIGHT 6 CYL. AND FIGURE 26 & 27, PG. 11 FOR V/8 ENGINES.
 ALT

PULLEYS

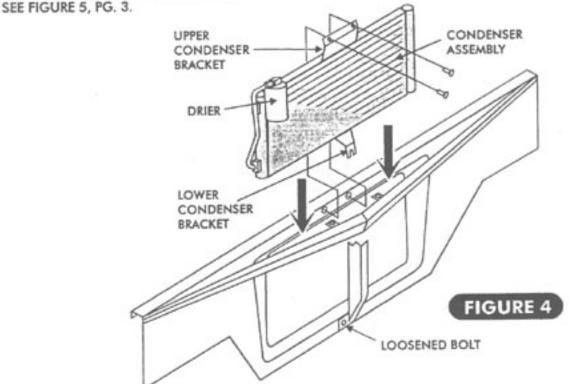
- ☐ THE BELTS AND PULLEYS ARE IN THE SAME ORDER AS ORIGINAL.
 - CHECK ALIGNMENT OF PULLEYS.
- □ IN MOST INSTANCES THE BELT LENGTHS WILL REMAIN THE SAME AS ORIGINAL. SEE FIGURE 3.



CONDENSER INSTALLATION

- □ LOWER THE CONDENSER ASSEMBLY INTO THE OPENING BETWEEN THE GRILLE AND RADIATOR CORE SUPPORT. SEE FIGURE 4.
- THE LOWER CONDENSER BRACKET IS SECURED BETWEEN THE HOOD LATCH SUPPORT AND THE RADIATOR CORE SUPPORT BY THE BOLT THAT WAS PREVIOUSLY LOOSENED. SEE FIGURE 4.
- ☐ DRILL TWO (2) 1 1/4" HOLES THRU THE RADIATOR SUPPORT BELOW THE BATTERY TRAY.
- SEE FIGURE 5, PG. 3.

 INSTALL THE APPOPRIATE RUBBER GROMMETS (SUPPLIED) AND PASS THE #6 AND #8 HOSES THRU THE GROMMETS. #8 HOSE WILL ROUTE THRU THE PASSENGER SIDE GROMMET.





CONDENSER INSTALLATION (CONTINUED)

- □ LOCATE THE #8 DISCHARGE HOSE (13/32" I.D. HOSE THAT ROUTES FROM THE TOP OUTLET ON CONDENSER TO THE DISCHARGE PORT ON THE AIR COMPRESSOR). LUBRICATE THE #8 O'RING (SEE FIGURE 6) AND INSTALL IT ON THE #8 90° FEMALE FITTING. SEE FIGURE 5. INSERT THE FITTING INTO THE INLET OF THE CONDENSER (TOP FITTING).
- □ LUBRICATE THE # 6 O'RING (SEE FIGURE 6) AND INSTALL IT ON THE 90° FITTING THAT CONNECTS TO THE DRIER OUTLET. ATTACH THE FITTING. WITH HOSES CONNECTED TO THE CONDENSER, BOLT THE CONDENSER IN PLACE. THE UPPER CONDENSER BRACKET IS SECURED BETWEEN THE HOOD LATCH AND THE RADIATOR CORE SUPPORT. TIGHTEN THE LOWER OEM BOLT.
- □ LUBRICATE THE #8 O'RING. INSTALL THE O'RING ON THE FITTING AND ATTACH IT TO THE DISCHARGE PORT.

NOTE: ROUTE HOSES ACCORDING TO THE DIAGRAM FOR YOUR PARTICULAR ENGINE SIZE - STRAIGHT 6cyl. OR V/8 (SEE PG. 10 OR PG. 11).

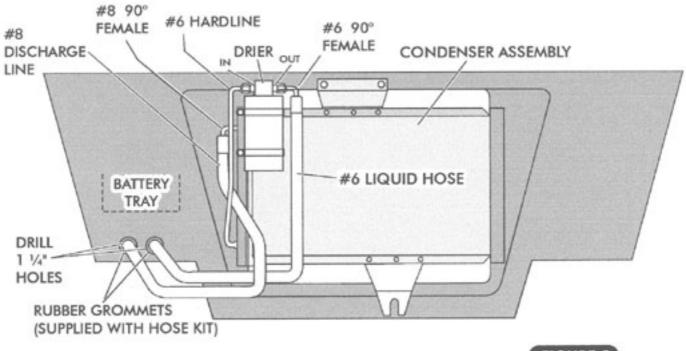


FIGURE 5

FOR A PROPER SEAL
OF FITTINGS INSTALL SUPPLIED
O'RINGS AS SHOWN
AND LUBRICATE O'RINGS
AND FITTING THREADS
WITH SUPPLIED OIL.









FIGURE 6



10305 I.H. 35 N. - SAN ANTONIO, TX. - 78233 - ph.210-654-7171 - fox 210-654-3113 OEM HEATER CONTROL MODIFICATIONS AND INSTALLATION □ REMOVE THE OEM BLOWER SWITCH AND REPLACE WITH NEW BLOWER SWITCH (SUPPLIED). ☐ USE THE NEW SWITCH AS A TEMPLATE TO LOCATE THE 1/8" HOLE TO BE DRILLED. AFTER THE HOLE IS DRILLED, ATTACH THE NEW SWITCH USING THE OEM SCREW AND A #6 SHEETMETAL SCREW (SUPPLIED), SEE FIGURE 7. □ REMOVE OEM KNOB AND ATTACH TO NEW SWITCH. TO PREPARE FOR CABLE INSTALLATION □ DRILL 3/32" HOLE IN CONTROL LEVERS FOR EASE OF CABLE INSTALLATION. LAY YOUR CONTROLS & EVAPORATOR OUT ON YOUR WORK BENCH AND ATTACH CABLES AS FOLLOWS: "HEAT" LEVER CABLE TO THE HEAT/AC DOOR (27"). "TEMP" LEVER CABLE TO THE HEATER CONTROL VALVE (30"). "DEF" LEVER CABLE TO THE DEFROST PLENUM DOOR (19 1/2"). ADJUST CABLES ON BOTH ENDS FOR PROPER OPERATION. ON EVAPORATOR END, MARK CABLES FOR EASY INSTALLATION IN SAME POSITION WHEN THE EVAPORATOR IS MOUNTED IN THE CAR. REMOVE CABLES FROM EVAPORATOR. LEAVING THEM ON THE CONTROL PANEL. □ INSTALL CONTROL PANEL (WITH CABLES ATTACHED) INTO THE DASH. **NEW SWITCH -**OLD SWITCH (INSTALL) (REMOVE) USE HOLE AS A TEMPLATE DRILL 1/8 HOLE ATTACH RETAINER RING OEM KNOB DEFROST FIGURE NYLON PLENUM DOOR #6 x 1/3" SCREW BUSHING 46 x V "HEAT" CABLE (27") SCREW 0 HEAT/AC DOOR 10 RETAINER "TEMP" CABLE (30") RING **EVAPORATOR** "DEF" CABLE FIGURE 8 (19 1/2") NOTE: DRILL 3/32" HOLE IN HEATER LEVERS FOR EASE OF CONTROL CABLE INSTALLATION. VALVE

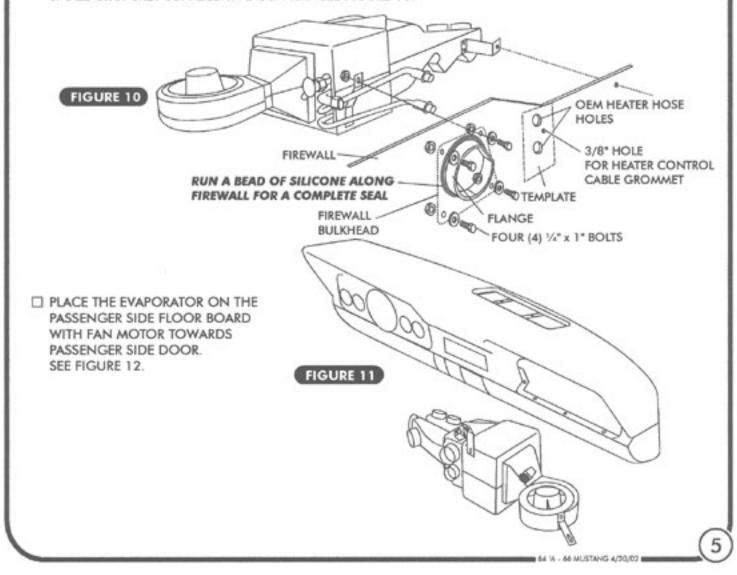


EVAPORATOR INSTALLATION

□ BEFORE THE UNIT IS INSTALLED, ATTACH THE FRESH AIR COVER (SUPPLIED) OVER THE OEM HOLE LOCATED UNDER THE DASH USING SHEETMETAL SCREWS. SEE FIGURE 9.



- ☐ MOUNT THE FIREWALL BULKHEAD TO THE INSIDE OF THE FIREWALL BEFORE THE UNIT IS INSTALLED
 (REAR EVAPORATOR BRACKET MOUNTS THRU THE UPPER RIGHT HAND HOLE OF THE FIREWALL BULKHEAD
 FLANGE). SEE FIGURE 10.
- □ LOCATE THE TEMPLATE ON PG. 15. PLACE TEMPLATE OVER OEM HEATER HOSE HOLES AND MARK THE FIREWALL (FOR EASE OF TEMPLATE PLACEMENT - PLACE A LIGHT INSIDE PASSENGER COMPARTMENT AND SHINE THRU OEM HOLES). DRILL A 3/8" HOLE IN THE POSITION INDICATED AND INSTALL THE SMALL GROMMET SUPPLIED IN DRAIN KIT. SEE FIGURE 10.





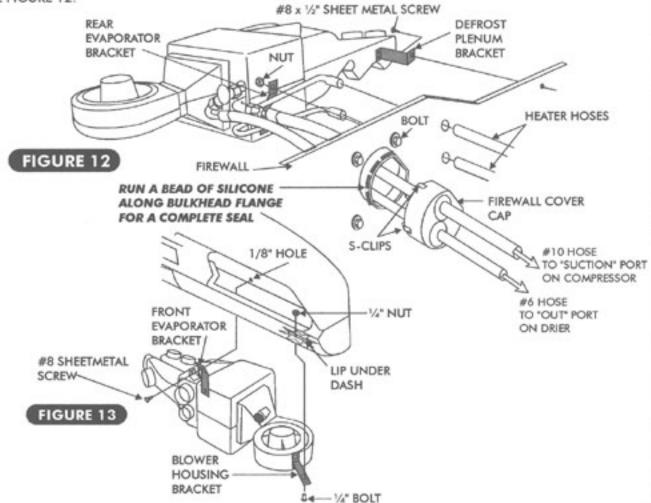
EVAPORATOR INSTALLATION (CONTINUED)

- RAISE THE UNIT UP UNDER DASH.
- □ PASS THE HEATER TUBES THRU THE OEM FIREWALL HOLES.
- □ THE BACK OF THE EVAPORATOR IS SUPPORTED BY A BOLT THRU THE BULKHEAD.
 USE THE PROTRUDING BOLT AS A STUD, AND HANG THE REAR EVAPORATOR BRACKET ON IT.
 INSTALL THE ¼" COARSE NUT PROVIDED.
- □ THE BLOWER MOTOR HOUSING IS SUPPORTED BY ATTACHING THE BRACKET TO THE OEM HOLE ON THE UNDER LIP OF THE DASH NEXT TO THE GLOVE BOX OPENING. SECURE THIS BRACKET USING A 1/4" BOLT & NUT (SUPPLIED). SEE FIGURE 12.

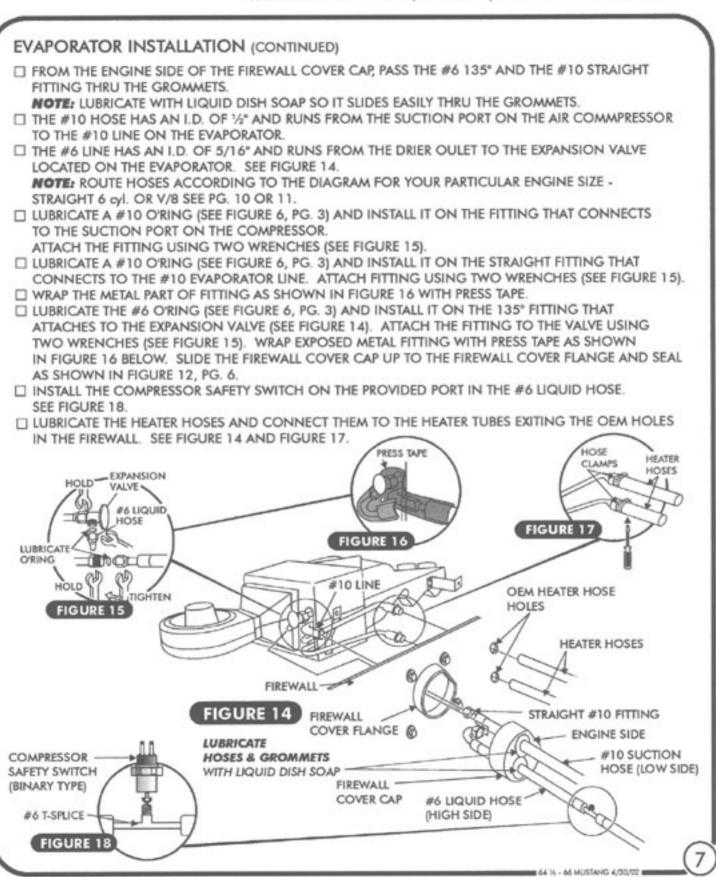


IF YOU HAVE A FACTORY CONSOLE - TEMPORARILY INSTALL IT NOW, BEFORE ATTACHING THE FRONT EVAPORATOR BRACKET TO THE COWL. RAISE THE EVAPORATOR 1/8" ABOVE THE CONSOLE AND PROCEED TO NEXT STEP.

- □ THE FRONT OF THE EVAPORATOR IS SUPPORTED BY ATTACHING THE BRACKET ON THE FRONT OF THE UNIT TO UNDERSIDE OF THE COWL USING A #8 x ½" SHEET METAL SCREW (BE CERTAIN THE UNIT IS LEVEL -LEFT TO RIGHT). SEE FIGURE 14. WITH UNIT IN PLACE, USE THIS BRACKET AS A TEMPLATE TO LOCATE THE 1/8" HOLE TO BE DRILLED FOR THE #8 SHEET METAL SCREW.
- □ THE DEFROST PLENUM IS SUPPORTED BY A #8 SCREW THRU THE BRACKET AND INTO THE FIREWALL. SEE FIGURE 12.



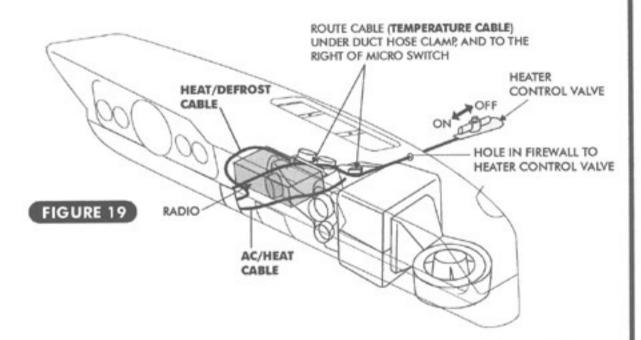




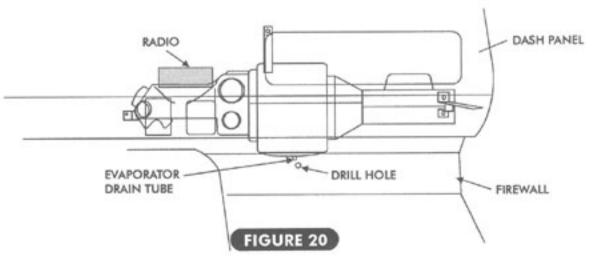


EVAPORATOR INSTALLATION (CONTINUED)

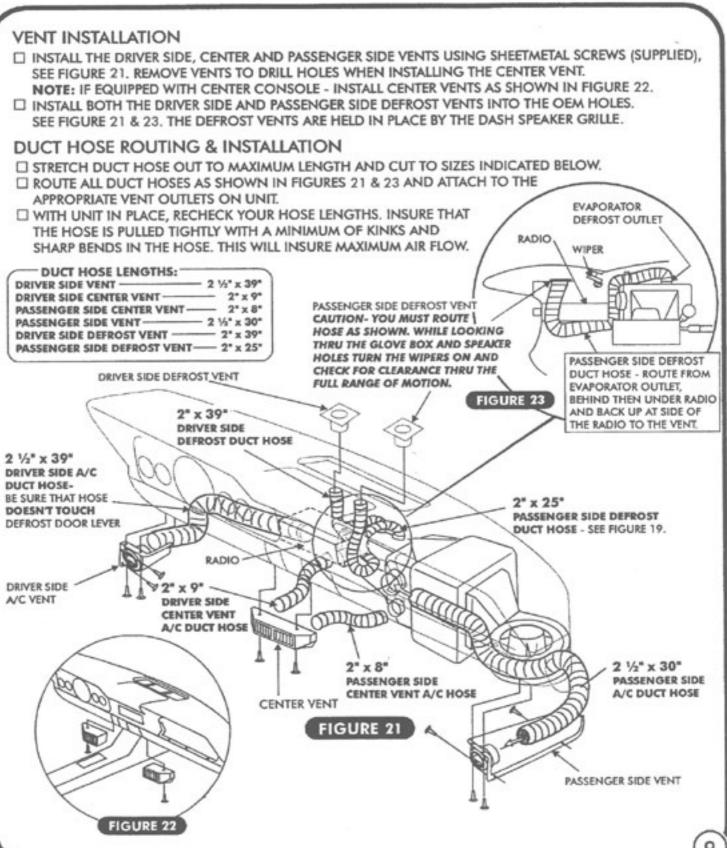
- □ THE HEATER CONTROL VALVE MUST BE IN THE LINE COMING FROM THE INTAKE MANIFOLD AND MUST BE ORIENTED AS SHOWN IN FIGURE 19 AND HOSE ROUTING FIGURE (PG. 10 OR 11).
- □ INSTALL THE HEATER CONTROL VALVE AND CLAMP THE CABLE IN THE SAME POSITION AS IT WAS IN YOUR INITIAL CONTROL PANEL/CABLE ADJUSTMENT SECTON.
- ☐ WITH YOUR CONTROL PANEL IN PLACE, REINSTALL CABLES TO PREMARKED LOCATIONS ON EVAPORATOR. SEE FIGURE 8, PG. 4.



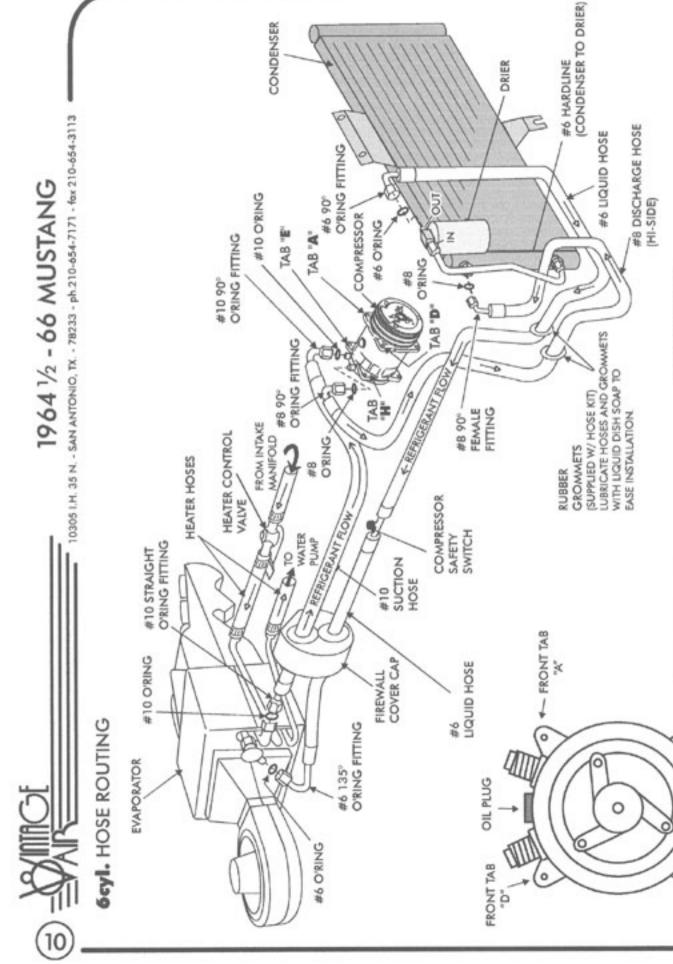
□ DRILL A 5/8" HOLE 1" BELOW THE EVAPORATOR AND IN LINE WITH THE DRAIN TUBE IN THE BOTTOM OF THE EVAPORATOR UNIT. INSERT THE ½" DRAIN TUBE (SUPPLIED) THRU THE FIREWALL AND ATTACH TO THE DRAIN TUBE ON THE EVAPORATOR. SEE FIGURE 20.







64 Vi - 66 MUSTANG 4/30/02



6cyl. HOSE ROUTING FIGURE 24

COMPRESSOR MOUNTING DIAGRAM FOR 6 oyl. APPLICATION

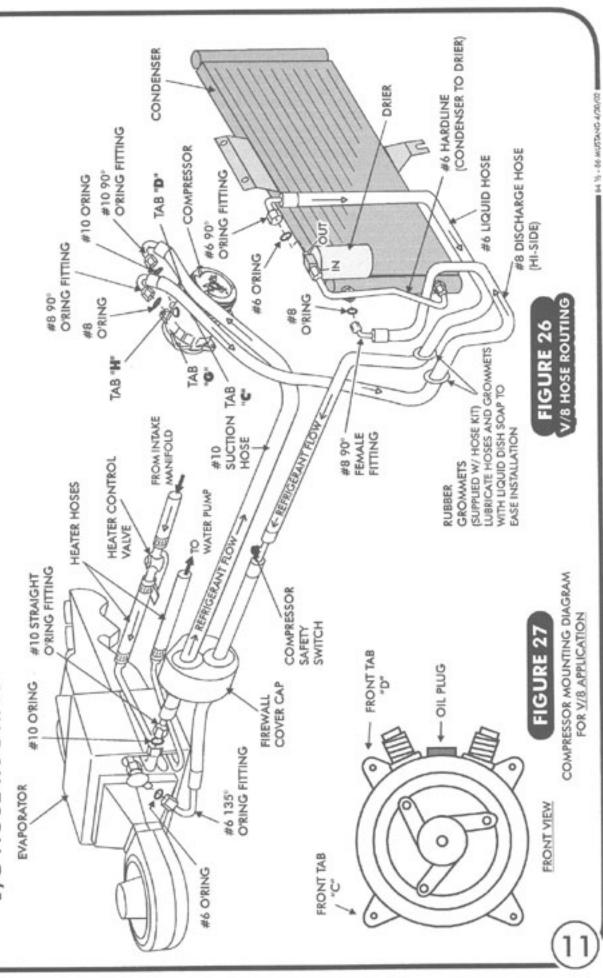
FRONT VIEW

FIGURE 25

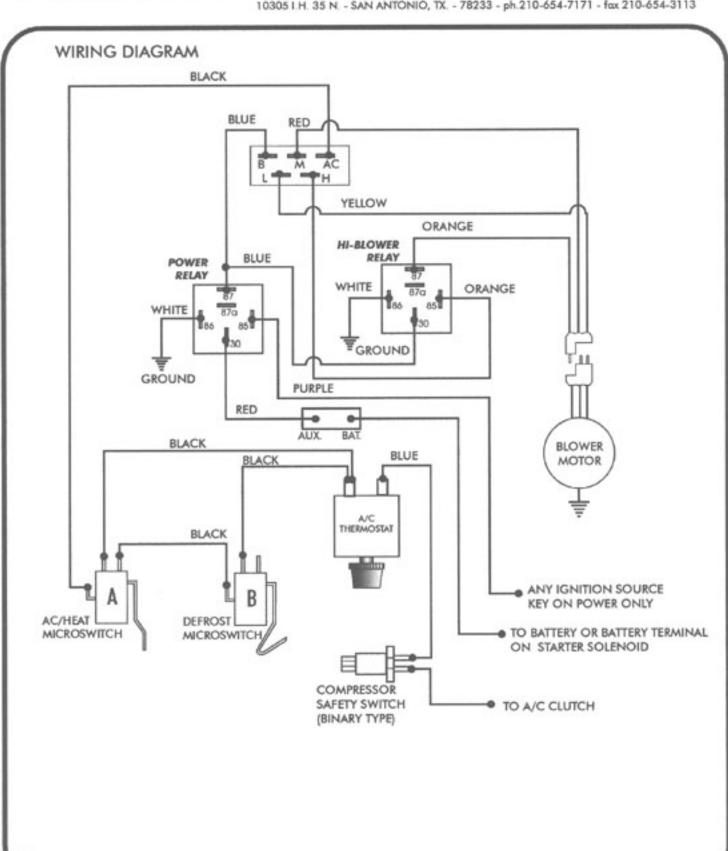
■ 64 15 - 66 MUSTANG 4/30/02



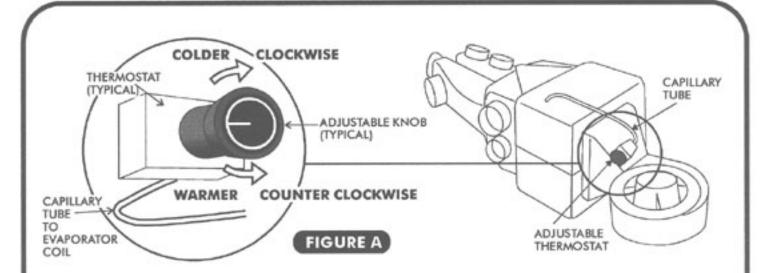
V/8 HOSE ROUTING











AIR CONDITIONING ADJUSTMENTS:

- THE AIR CONDITIONER THERMOSTAT CONTROLS COIL TEMPERATURE, IT IS SHIPPED ADJUSTED FULLY COLD (CLOCKWISE), IN THE MAJORITY OF CASES THE A/C WILL OPERATE CORRECTLY AS SHIPPED.
- TURNING THE KNOB ON THE THERMOSTAT TO THE RIGHT (CLOCKWISE) MAKES THE SYSTEM OPERATE
 COLDER. IF THE THERMOSTAT IS SET TOO COLD THE EVAPORATOR WILL "ICE UP" THE EVAPORATOR
 COIL IS RESTRICTED WITH ICE AND COLD AIR FLOW WILL BE REDUCED.
- TURNING THE KNOB TO THE LEFT (COUNTER CLOCKWISE) MAKES THE SYSTEM OPERATE WARMER.
 THE COMPRESSOR CLUTCH WILL CYCLE OFF FREQUENTLY AND THE A/C SYSTEM WILL NOT GET AS COOL AS IT COULD.

ADJUSTING A/C THERMOSTAT -

1.) SYMPTOM: THE A/C WORKS WELL AT FIRST THEN QUITS COOLING. THE AIR FLOW FROM THE VENTS IS LOW AND THE COMPRESSOR CYCLES INFREQUENTLY.

SOLUTION: THE THERMOSTAT IS SET TOO COLD AND THE EVAPORATOR IS "ICING UP" AND RESTRICTING AIR FLOW. ALLOW THE ICE TO MELT AND SET THE THERMOSTAT WARMER (COUNTER CLOCKWISE) 10% OF A TURN EACH ADJUSTMENT UNTIL THE SYMPTOMS DIMINISH.

- 2.) SYMPTOM: A/C NEVER GETS COLD AND THE COMPRESSOR CLUTCH CYCLES FREQUENTLY. SOLUTION: THE THERMOSTAT IS SET TOO WARM. SET THE THERMOSTAT COLDER (CLOCKWISE) 10% OF A TURN EACH ADJUSTMENT UNTIL THE COMPRESSOR CLUTCH CYCLES INFREQUENTLY. AVOID SETTING THE THERMOSTAT TOO COLD.
- 3.) SYMPTOM: THE A/C NEVER GETS COLD, SOMETIMES EVEN BLOWS HOT, AND THE A/C COMPRESSOR CLUTCH INFREQUENTLY CYCLES OFF.

SOLUTION: THE HEATER MAY BE ON AT ALL TIMES. CAREFULLY FEEL AROUND THE HEATER HOSES AT THE FIREWALL. THEY SHOULD BE COLD WHEN THE A/C IS ON. IF THE HOSES ARE HOT....

- A) THE HEATER CONTROL VALVE MAY BE INSTALLED BACKWARDS. CHECK THE FLOW DIRECTION
 ARROW ON THE VALVE AGAINST THE ILLUSTRATION IN YOUR INSTALLATION INSTRUCTIONS.
- B) CABLE OPERATED: THE VALVE MAY BE MISADJUSTED.
- C) HEATER CONTROL VALVE IS INSTALLED IN WRONG HEATER HOSE.

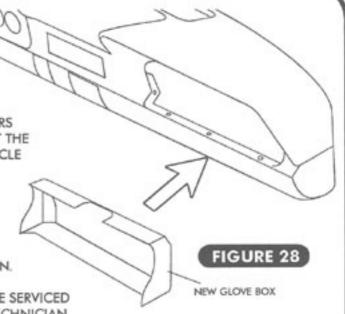


FINAL STEPS

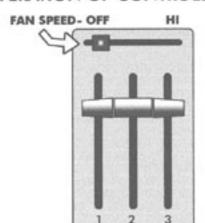
- □ INSTALL NEW GLOVE BOX (SUPPLIED) USING OEM SCREWS. USE OEM MOUNTING HOLES IN DASH. SEE FIGURE 28.
- FILL RADIATOR WITH AT LEAST A 50/50 MIXTURE OF APPROVED ANTIFREEZE AND WATER. IT IS THE OWNERS RESPONSIBILITY TO KEEP THE FREEZE PROTECTION AT THE PROPER LEVEL FOR THE CLIMATE IN WHICH THE VEHICLE IS OPERATED. FAILURE TO FOLLOW ANTIFREEZE RECOMMENDATIONS WILL CAUSE HEATER CORE TO CORRODE PREMATURELY AND POSSIBLY BURST IN AC MODE AND/OR FREEZING WEATHER, VOIDING YOUR WARRANTY.

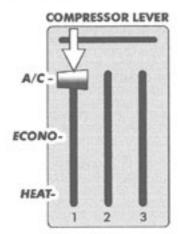


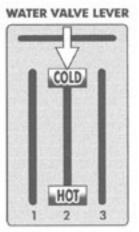
VINTAGE AIR RECOMMENDS THAT ALL AC SYSTEMS BE SERVICED BY A CERTIFIED AUTOMOTIVE AIR CONDITIONING TECHNICIAN ONLY, SEE INSIDE COVER FOR SERVICE INFORMATION.



OPERATION OF CONTROLS-







FAN SPEED- CHOOSE FAN SPEED

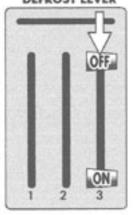
A/C- ALL LEVERS UP CHOOSE FAN SPEED

HEAT- LEVERS 1 & 2 DOWN/ 3 UP CHOOSE FAN SPEED

DEFROST- ALL LEVERS DOWN CHOOSE FAN SPEED

OFF- FAN SPEED OFF, LEVERS 1,2 & 3 - UP. CHOOSE FAN SPEED

DEFROST LEVER

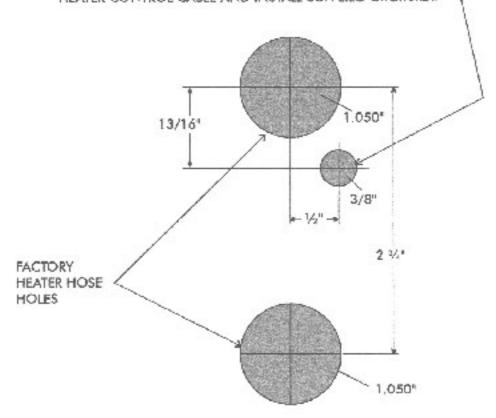








LAY TEMPLATE OVER FACTORY HEATER HOSE HOLES. MARK AND DRILL A 3/8" HOLE FOR HEATER CONTROL CABLE AND INSTALL SUPPLIED GROMMET. \



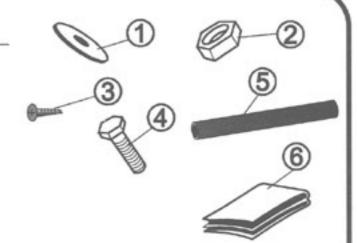


63269-VFE

DRAIN KIT PARTS LIST

6. 20" 49003-VUP

PRESS TAPE



49064-VFI

WIRING KIT PARTS LIST

No. QYT. PART # DESCRIPTION

1. 1 11441-VUS 5 PRONG '55 CHEVY BLOWER SWITCH

2. 2 18233-VUB #6 x 3/8" PAN HD SCREW

3. 1 23132-VUW 30" JUMPER WIRE BLACK

4. 1 23165-VUW 40" WIRING HARNESS W/ RELAY PLUG

5. 2 44500-VUJ RELAY 5-PRONG

6. 1 49301-VUQ CHROME LEVER CONTROL KNOB

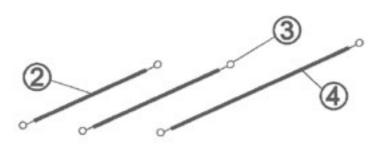
1 64768-VFB '64-66 MUSTANG BLOWER SWITCH BRACKET

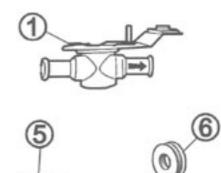


49430-VFH

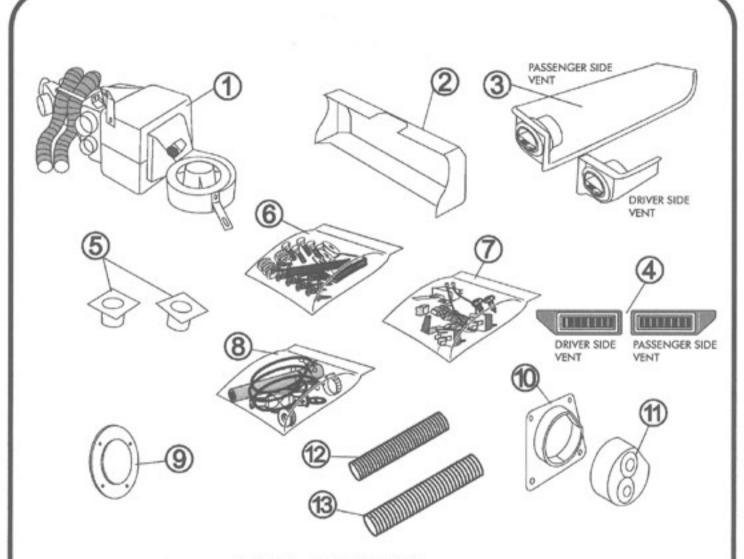
CABLE KIT PARTS LIST

| 1 46105-VUH HEATER CONTROL VAVLE (PI | JLL) |
|--|------|
| 1 49188-VUI LEVER CABLE 19 ½" | |
| 2 49189-VUI LEVER CABLE 27" | |
| 4. 1 49190-VUI LEVER CABLE 30" | |
| 1 65975-VUE PUSH ON RING | |
| 6. 1 33138-VUI GROMMET | |









1964 ½ -66 MUSTANG PACKING LIST

| No. | QTY. | PART No. | DESCRIPTION |
|-----|------|-------------|--|
| 1. | 1 | 55367-VFE-A | 64 1/2 -66 MUSTANG SUBCASE |
| 2. | 1 | 62340-VFE | GLOVE BOX |
| 3. | 1 | 63316-VFL | SIDE VENT KIT (PASSENGER & DRIVER SIDE |
| 4. | 1 | 63018-VUL | CENTER VENT ASSEMBLY |
| 5. | 2 | 62342-VFE | DEFROST DUCTS |
| 6. | 1 | 63269-VFE | DRAIN KIT |
| 7. | 1 | 49064-VFI | WIRING KIT |
| 8. | 1 | 46430-VFE | CABLE KIT |
| 9. | 1 | 62341-VFE | FRESH AIR CAP |
| 10. | 1 | 62359-VFE | FIREWALL COVER |
| 11. | 1 | 62346-VFE | FIREWALL COVER CAP |
| 12. | 8' | 06200-VUE | 2" x 8' DUCT HOSE |
| 13. | 8' | 06250-VUE | 2 1/2" x 8' DUCT HOSE |