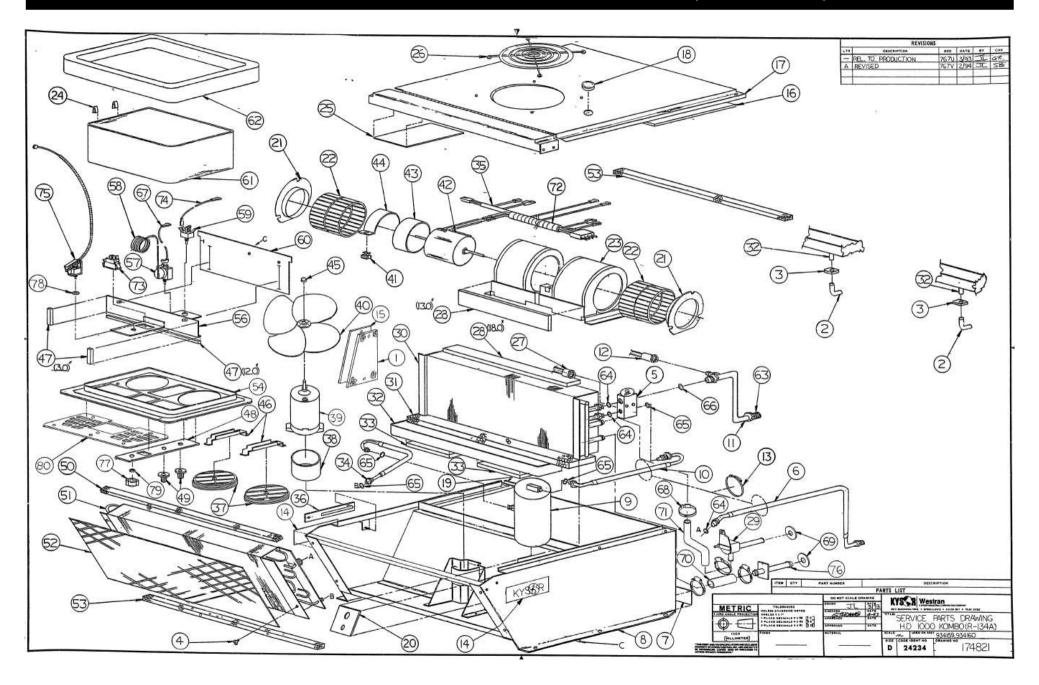
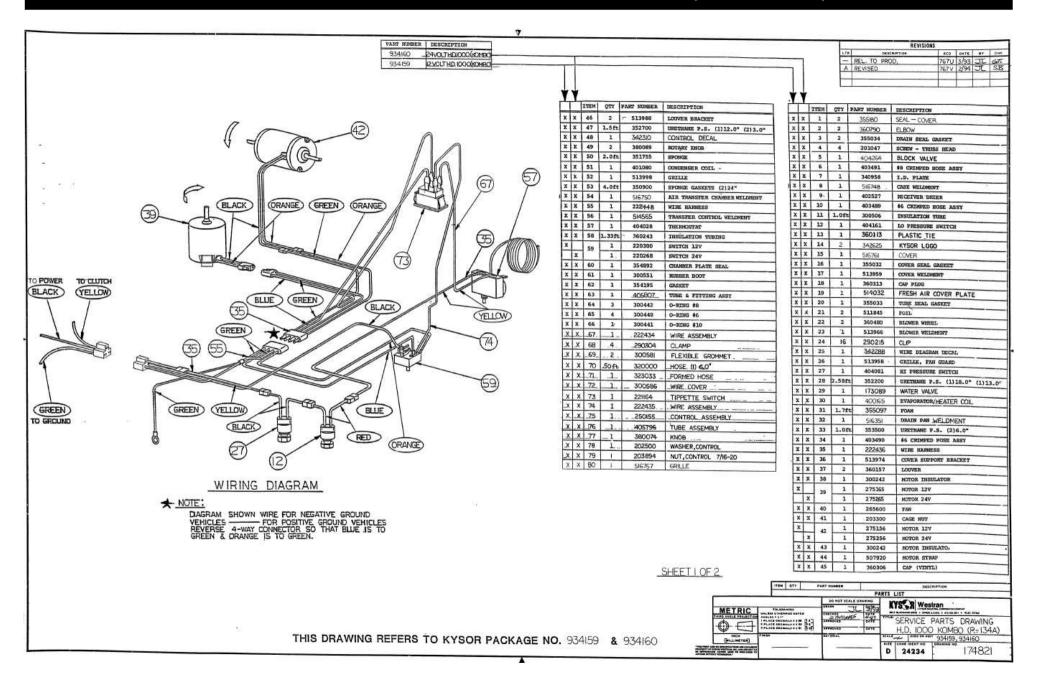
Products that Perform.

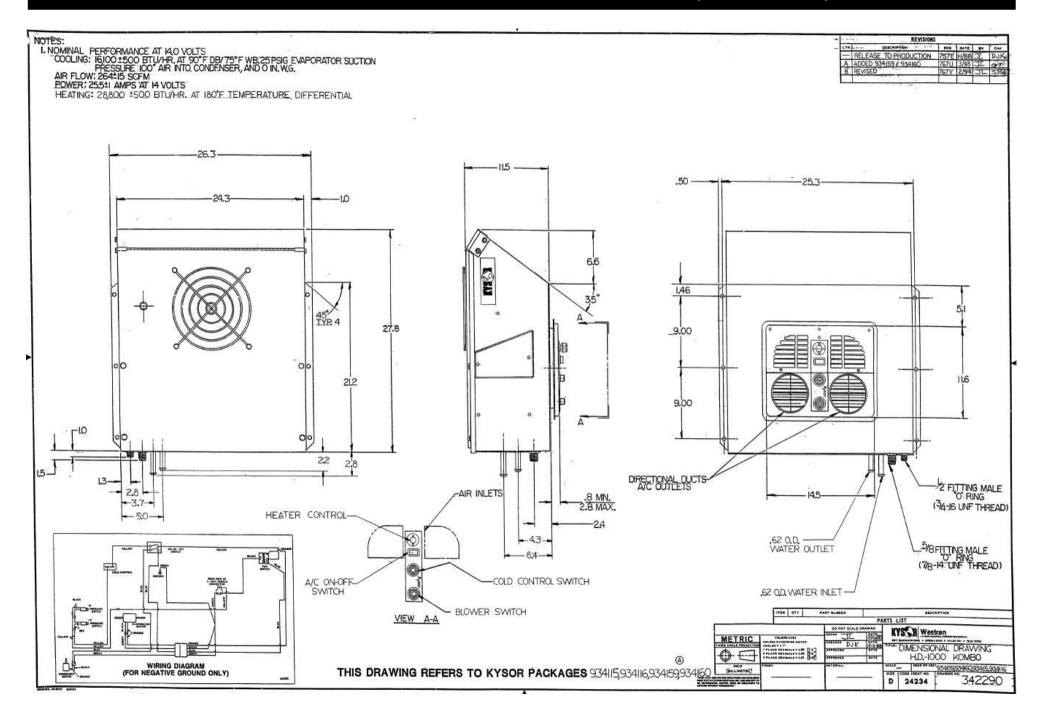
Exploded View Proprietary Drawings HD1000 Kombo











INSTALLATION INSTRUCTIONS HD 1000 HEAVY DUTY R-134A ROOFTOP KOMBO OR A/C ONLY 342557

NOTE: 1. Read instructions carefully.

2. If vehicle is to be used at highway speeds, an additional relay will be necessary to prevent reverse current flow caused by windmilling of condenser fan.

Installation Procedure

- Install compressor brackets, pulley and accessory hardware per instructions in Adapter Kit.
- 2. Roof Unit Mounting.
 - A. Remove cab roof liner, if applicable.
 - B. Lay out template 342125 on top of roof. Be sure the unit will clear lights and accessories mounted to cab roof and ceiling. Mark mounting hole locations and drill six (6) 13/32" mounting holes.
 - C. Mark the position for air transfer chamber and cut hole.
 - D. If applicable, install roof liner, trace outline of opening in roof on the liner. Remove roof liner and cut out opening traced.
 - E. Clean dust, dirt and metal burrs from around air transfer chamber opening and mounting holes.
 - F. Place unit on roof top temporarily to verify that mounting bolts and transfer chamber are aligned correctly with holes cut in roof.
 - G. Remove unit.
 - H. Clean the roof surface approximately 1½" around transfer chamber opening. Wipe seal ring on unit with a clean dry cloth to remove dust and dirt.
 - Mount unit as in step (F) and tighten mounting bolts. An incomplete seal (gaps or loose appearance) is a result of improperly tightened mounting bolts. Maximum compression of seal ring should not exceed %". Use sealant around bolt holes.

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Installation Instructions - 342557 HD 1000 Heavy Duty R-134a Roof Top Kombo or A/C Only Page 2

- 3. Wiring Installation.
 - A. Cut a small hole through rubber boot close to roof at rear of air chamber opening. This hole should be large enough for the three (3) wires of the harness.
 - B. Insert the three (3) wires through the hole and insert terminals into connector. Care should be taken to ensure that wire color coding relationship is maintained.

NOTE: Cabs without roof liner, route wires through hole in rear of air chamber.

- 4. Air Chamber Assembly Installation.
 - A. Install roof liner if applicable. Hold roof liner in normal position. Trim rubber boot level with roof liner or roof. Loosen the two (2) wing nuts inside rear of air chamber opening allowing control panel to drop down to bottom of adjustment.
 - B. Hold air chamber in position and determine position for control panel so that air chamber will be tight against roof liner or roof.

NOTE: Make sure that clip on air chamber is behind the control plate.

Tighten wing nuts when air chamber is in proper position. Attach air chamber and grille to control plate as shown.

- 5. Hose Kit Installation.
 - Attach refrigerant hoses to air conditioner connections on unit and route down rear and under cab to compressor.
 - B. Attach heater hoses to heater connections on unit and route down rear and under cab to water connections on engine (Kombo only).
 - C. Attach hoses to vehicle with clamps located approximately two (2) feet apart and where required to keep hoses away from hot spots and sharp objects.

NOTE: On tilt cab installations, always route refrigerant and heater hoses to the cab pivot point and then on to the compressor and water connections of hose, to prevent tearing of hose, breaking of service valves, and destruction of hose due to laying on hot spots of engine. Check routing with cab up and down to ensure proper routing.

D. On refrigerant hoses with crimp fittings, after routing and determining proper hose lengths, cut to length using a sharp knife.

Installation Instructions - 342557 HD 1000 Heavy Duty R-134a Roof Top Kombo or A/C Only Page 3

> NOTE: Do not use a saw of any type. Push fitting into hose, crimp per manufacturer's instructions.

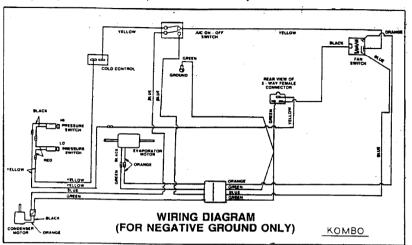
- E. Use hose clamps to attach heater hoses to unit and water connections on engine (Kombo only).
- F. Determine desired direction of drainage. Cut drain hose to desired lengths. Attach drain hoses to drain elbows on bottom of unit. Use hose clamps to hold drain hoses in position.

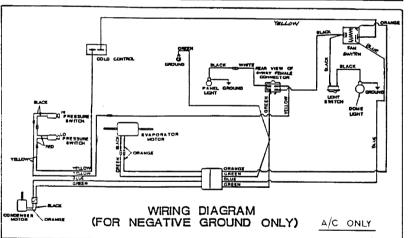
NOTE: Drain hose should be positioned in a direction that will allow unit to drain if vehicle is operated on an incline.

Attach check valves to the ends of drain hoses.

Installation Instructions - 342557 HD 1000 Heavy Duty R-134a Roof Top Kombo or A/C Only

Page 4





- NOTES: 1. Diagram shown is for unit factory wired for negative ground system. For positive ground, reverse 4-way connector so that green is to orange and blue to is green.
 - 2. Unit requires a 30 amp fuse or circuit breaker for 12 volt system and 15 amp for 24 volt.
 - 3. Fan switch must be "ON" to get power to temperature control switch and clutch.

