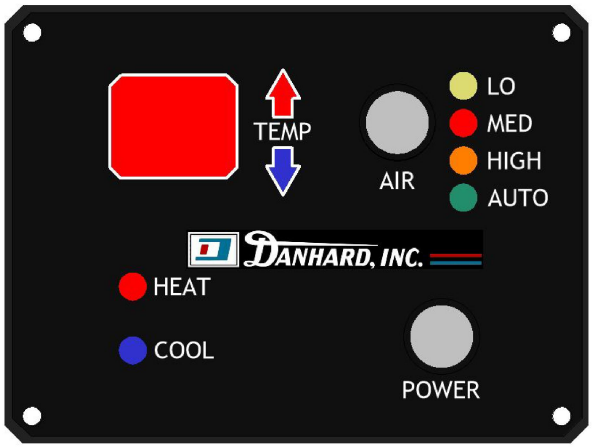
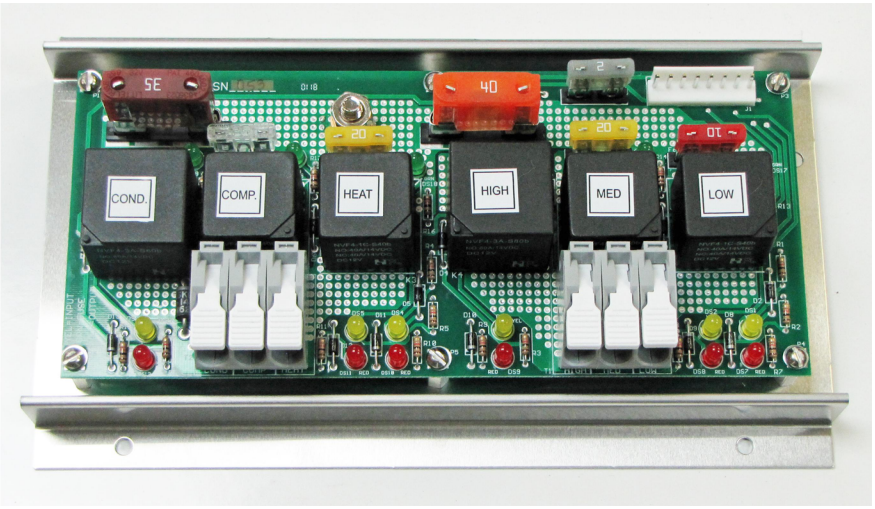
MOBILE AIR CONDITIONING SYSTEM

AUTO CLIMATE CONTROL SYSTEM
Model 20-3677



DIGITAL THERMOSTAT
WITH TEMPERATURE PROBE

RELAY BOARD
WITH 15' HARNESS



DANHARD, INC.
3839 Dilido Road Dallas, TX 75228 Tel: (800) 521-7978 Fax: (214) 320-0965
www.danhard.com sales@danhard.com

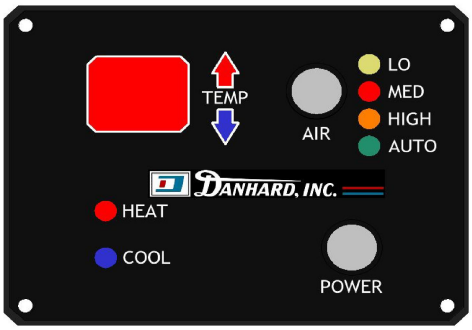
DANHARD, INC.

DIGITAL THERMOSTAT

Operation

The Danhard digital thermostat is a selectable Manual/Automatic temperature controller specifically designed for vehicles. The screen will display actual inside temperature as well as set point temperature.
It has backlighting for ease of use at nightime with simple controls.

In Manual mode, blower speed is selected manually.
In Auto mode, blower speed is controlled by thermostat.
Power- Turn thermostat On-Off, illuminated at all times.
Heat-Cool- Automatic selection based on set point.
Lo-High-Indicates blower air speed.
Temp Arrows- Raise or lower set point of thermostat.



Depress power button to turn thermostat on. Next, select desired inside temperature with temp “UP-DOWN” arrows.
Thermostat will change from inside temp to set point temp when doing so.Depress “AIR” speed to desired speed as indicated on display.
Blower will remain in this setting at all times.
Heat or Cool selection is automatic depending on setpoint. Depress air speed button to “AUTO”. This will allow thermostat
to regulate air speed depending upon differential from setpoint.
Once the thermostat has reached the setpoint, blower will remain in Lo speed.

DANHARD, INC.

20-3676 RELAY BOARD

LEGEND

LED LOGIC

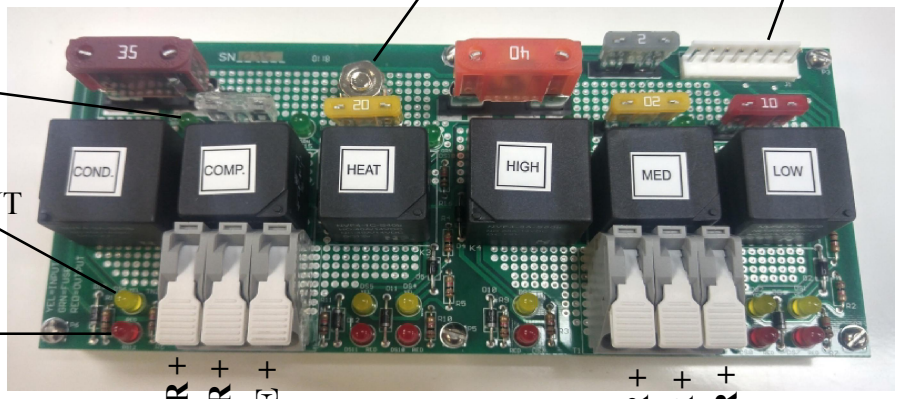
GREEN
BLOWN FUSE

YELLOW INPUT

RED OUTPUT

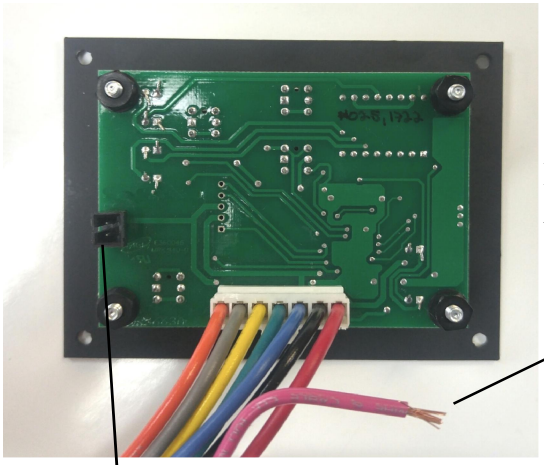
POWER STUD

THERMOSTAT CONNECTION



CONDENSER +
COMPRESSOR +
HEAT VALVE +

HIGH SPEED BLOWER +
MED SPEED BLOWER +
LOW SPEED BLOWER +

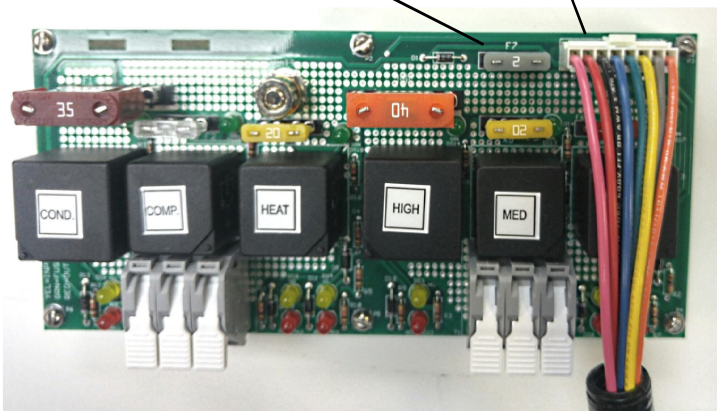


PINK- CONNECT TO SWITCHED IGNITION TO POWER DOWN ALL COMPONENTS WITH KEY OFF.

TEMP PROBE CONNECTION

THERMOSTAT FUSE

HARNESS- RELAYS TO THERMOSTAT 15 FEET



RELAY BOARD OVERVIEW

The 20-3676 Relay Board is designed to provide power to all components needed in a mobile HVAC system. With a single connection point for
Blower
Condenser
Compressor
Heat valve
This board simplifies ANY requirement for add on a/c as well as heat.

Key features:
1 Power connection
Wago surface mounts for positive wire connection
LED indicatiors for signal input, output, and blown fuses.
Single wire positive output for each component.
Entirely Plug and Play
15 foot harness and 15 foot temp probe.

Power connection

12 volt to power stud, recommended wire 8 ga. to prevent voltage drop.
On aluminum base, connect negative lead to hole (on right side)to allow circuit board to operate.
All connected components(blower, condenser etc.) need to have chassis negative connection.

Length (feet)	Current (amps)									
	5	10	15	20	25	30	40	50	60	70
15	16	12	10	10	8	8	6	6	4	4
20	14	12	10	8	8	6	6	4	4	4
25	14	10	8	8	6	6	4	4	2	2
30	12	10	8	6	6	4	4	2	2	2
40	12	8	6	6	4	4	2	2	1	1/0
50	10	8	6	4	4	2	2	1	1/0	1/0
60	10	6	6	4	2	2	1	1/0	2/0	2/0
70	10	6	4	2	2	2	1/0	2/0	2/0	3/0
80	8	6	4	2	2	1	1/0	2/0	3/0	3/0
90	8	4	4	2	1	1/0	2/0	3/0	3/0	4/0

American Wire Gauge (AWG)

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