Installation & Service Manual

N6DHPACLA, N6DHPACMA, N6DHPACHA

HIGH PERFORMANCE AIR CURTAIN MULTI-SHELF MERCHANDISER
Medium Temperature Self Serve Display Cases

This manual has been designed to be used in conjunction with the General (UL/NSF) Installation & Service Manual.
Save the Instructions in Both Manuals for Future Reference!!

This merchandiser conforms to the American National Standard Institute & NSF International Health and Sanitation standard ANSI/NSF 7 - 2003.
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The following High Performance Air Curtain Medium Temperature, Multi-Shelf Dairy, Deli, Produce and Juice Merchandiser models are covered in this manual:

**MODEL** | **DESCRIPTION**
---|---
N6DHPACLA | 6’, 8’ & 12’ HIGH PERF. AIR CURTAIN MERCHANDISER WITH 18” FRONT
N6DHPACMA | 6’, 8’ & 12’ HIGH PERF. AIR CURTAIN MERCHANDISER WITH 22” FRONT
N6DHPACHA | 6’, 8’ & 12’ HIGH PERF. AIR CURTAIN. MERCHANDISER WITH 26” FRONT
SPECIFICATIONS

Refrigeration Data:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CASE LENGTH</th>
<th>CASE USAGE</th>
<th>CAPACITY (BTUH / FT)</th>
<th>UNIT SIZING (°F)</th>
<th>DISCHARGE AIR TEMPERATURE (°F)</th>
<th>VEL. (FPM) / SEC.</th>
<th>AVG. REF. CHARGE (LBS/FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6DHPAC(L/M/H)A</td>
<td>6'/8'/12'</td>
<td>MED TEMP</td>
<td>1000* 1,059*</td>
<td>+26**</td>
<td>+26</td>
<td>34.5**</td>
<td>110** 170** 0.55**</td>
</tr>
<tr>
<td>N6DHPAC(L/M/H)A</td>
<td>6'/8'/12'</td>
<td>MED TEMP</td>
<td>960* 1,016*</td>
<td>+26**</td>
<td>+26</td>
<td>34.5**</td>
<td>110** 170** 0.55**</td>
</tr>
<tr>
<td>N6DHPAC(L/M/H)A</td>
<td>6'/8'/12'</td>
<td>MED TEMP</td>
<td>920* 974*</td>
<td>+26**</td>
<td>+26</td>
<td>34.5**</td>
<td>110** 170** 0.55**</td>
</tr>
</tbody>
</table>

* Capacity data listed for cases with 2 rows of T-8 canopy lights and 4 rows of unlighted 22° deep shelves. Adjustments must be made to this base rating for each option installed on this case. ADD 23 BTUH/FT for each row of lighted shelves. For cases using peg bars, ADD 132 BTUH/FT to parallel load or ADD 153 BTUH/FT to conventional load. NOTE: Stalks are required above each peg bar row to provide proper air flow around the food products. For sizing all refrigeration equipment other than TYLER, use conventional BTUH values.

** Evaporator temperature is based on the saturated pressure leaving the case.

*** Air velocity measured 1 hour after defrost at the front of the top discharge air duct using an ALNOR JR. velocimeter with a scoop.

**** This is an average refrigeration charge per foot based on R22 and R404A refrigerant usage.

FOR SPECIFIC COMPRESSOR SIZING INFORMATION, REFER TO TYLER APPLICATIONS FOR RACK SYSTEM COMPRESSORS AND/OR THE COMPRESSOR MANUFACTURERS FOR SINGLE COMPRESSORS. FOR LINE SIZING INFORMATION, REFER TO THE MISCELLANEOUS SECTION "BUFF" IN THE TYLER SPECIFICATION GUIDE.

Electrical Data:

Fans and Heaters (120 Volt)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CASE LENGTH</th>
<th>FANS PER CASE</th>
<th>TOTAL ECM FANS</th>
<th>TOTAL ANTI-SWEATS</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6DHPAC(L/M/H)A</td>
<td>6'</td>
<td>PRIM. 2  SEC. 1</td>
<td>0.64 0.22 34.0 11.0</td>
<td>N/A N/A</td>
</tr>
<tr>
<td>N6DHPAC(L/M/H)A</td>
<td>8'</td>
<td>PRIM. 2  SEC. 2</td>
<td>0.44 0.44 34.0 32.0</td>
<td>N/A N/A</td>
</tr>
<tr>
<td>N6DHPAC(L/M/H)A</td>
<td>12'</td>
<td>PRIM. 3  SEC. 2</td>
<td>0.96 0.44 51.0 22.0</td>
<td>N/A N/A</td>
</tr>
</tbody>
</table>

T-8 Lighting with Electronic Ballasts (120 Volt)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CASE LENGTH</th>
<th>CANOPY LIGHTS* — PER ROW</th>
<th>SHELF LIGHTS — PER ROW</th>
<th>NOSE LIGHT</th>
<th>MAX. LIGHTING (8 ROWS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6DHPACCA</td>
<td>6'</td>
<td>0.40 0.75 48 90</td>
<td>0.60 0.90 1.20 1.50 1.90 72 144 300 228 0.40 48 3.05 366</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N6DHPACCA</td>
<td>8'</td>
<td>0.50 0.95 60 114</td>
<td>0.90 1.20 1.60 1.90 2.40 108 192 228 288 0.50 60 3.85 462</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N6DHPACCA</td>
<td>12'</td>
<td>0.70 1.40 84 168</td>
<td>1.35 1.80 2.40 2.85 3.55 162 288 288 342 426 0.70 84 5.55 678</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Standard lighting for this case is 2 rows of canopy lights.

Defrost Data:

<table>
<thead>
<tr>
<th>DEFROST TYPE</th>
<th>DEFROSTS PER DAY</th>
<th>DURATION TIME (MIN)*</th>
<th>ELEK. THERMOSTAT / AIR SENSOR SETTING</th>
<th>EPR SETTINGS ***</th>
<th>CONVENTIONAL COMPRESSOR SETTINGS***</th>
<th>DEFROST WATER (LB/FT/DAY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIME OFF</td>
<td>6</td>
<td>18</td>
<td>FRONT (OD) - ALL APPLICATIONS</td>
<td>33°F 32°F</td>
<td>R22 (PSG) R404A (PSG) R22 CUT-IN CUT-OUT</td>
<td>64°F 47°F 6.9 (max.)</td>
</tr>
</tbody>
</table>

* All high performance cases use OFF CYCLE defrost.

** NOTE: 18 minutes is for EPR with suction stop for defrost isolation. Defrost times increases by four minutes when defrost isolation is by pump down.

*** If EPR is utilized, use the settings shown in the chart. ADD 0.5 to EPR setting for each 1000 foot rise in elevation.

**** Recommended setup for a conventional unit uses an electronic thermostat to assure accurate temperature control.

CASE TO CASE SUCTION LINE SUB-FEED BRANCH LINESIZING

<table>
<thead>
<tr>
<th>MODEL</th>
<th>5'/8'</th>
<th>5'/8'</th>
<th>7'/8'</th>
<th>7'/8'</th>
<th>1-1/8'</th>
<th>1-1/8'</th>
<th>1-1/8'</th>
<th>1-3/8'</th>
<th>1-3/8'</th>
<th>1-3/8'</th>
<th>1-3/8'</th>
<th>1-3/8'</th>
<th>56'</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6DHPACCA / R22</td>
<td>6'</td>
<td>8'</td>
<td>12'</td>
<td>18'</td>
<td>20'</td>
<td>24'</td>
<td>28'</td>
<td>32'</td>
<td>36'</td>
<td>40'</td>
<td>44'</td>
<td>48'</td>
<td>52'</td>
</tr>
</tbody>
</table>

CASE CIRCUITS: This case requires a 120V circuit for fans and lights.

SHELVING NOTES: Shelving widths available for these cases are 15', 18', 20' and 22'. When two sizes are used, the smaller must be on top.

UL SANITATION approved in accordance with ANSI/NSF – 7.

CASE BTUH REQUIREMENTS are calculated to produce approximately the indicated entering-air temperature with absolute maximum operating ambient limits of 75°F & 55RH.

The information contained herein is based on technical analysis and/or tests performed in a controlled lab environment that are consistent with industry practices, and is intended as a reference for system sizing and configuration purposes only and for use by persons having technical skill at their own discretion and risk.

Conditions of use are outside of Tyler's control and we do not assume and hereby disclaim any liability for results obtained or damages incurred through application or reliance on the data presented, including but not limited to specific energy consumption with any particular model or installed application.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
N6DHPACA CROSS SECTION

Top Shelf Slot

Bottom Shelf Slot

3" x 5" Rear Piping Access Area

9-1/2"

1-3/4"

1-5/8"

87"

43"

23-1/2"

14"

8"

Secondary Fan Assy.

60-1/4"

50"

54"

58"

18", 20" or 22"

18"

21-3/4"

25-1/2"

7-1/2"

33"

41-1/2"

43-1/2"

NOTE: Front height is 19-1/4" and tray depth is 29-5/8" for N6DHPACL with nose light.

FLOOR PLAN

ALLOW 3' SPACE between the back of this case and the store wall, other cases or coolers to minimize possible condensation problems.

FORCED VENTILATION may be necessary in some situations.

Rear of Case

3" x 5" Rear Piping Access Area

Refrigeration 7/8" Suction 3/8" Liquid

2-1/2" Clearance between bottom of Drain Pipe and Floor

1" PVC Waste Outlet Pipe

38"

5"

43-1/2"

32"

3-1/2"

6', 8' or 12'

Base

Front of Case

1" O.A.

5"

3', 4' or 6'

22" R or L

2"
3. Set the Heating/Cooling jumper blocks to the “COOL” position.
4. Set the Cut-in at Setpoint/Cut-out at Setpoint jumper blocks to the “Cut-out at Setpoint” position.
5. Set the keypad Locked/Unlocked jumper blocks to the “Unlocked” position.
6. Replace the electronic thermostat cover and secure with four screws.

All N6DHPACA models have four pull-ups at each end of the case. Pull-ups A, B, C and D are located as shown and should be installed and tightened starting with A and finishing with D.

See “General-UL/NSF I&S Manual” for line-up assembly instructions.

Refrigeration Procedures

Refrigeration system and superheat instructions can be found in the “General (UL/NSF) I&S Manual”. Case electronic temperature control information is listed below.

Electronic Temperature Control

Whenever an N6DHPACA uses an electronic thermostat and solenoid valve for temperature control, use the following instructions to properly set-up the electronic thermostat.

Setting the Electronic Thermostat

1. Remove the four screws and cover from the electronic thermostat.
2. Connect sensor wires to the common (COM) and sensor (SEN) terminals of the terminal strip located at the top left of the printed circuit board. The sensor leads are interchangeable.

To adjust the setpoint:

- a. Push the Menu Button. “SP” will flash on the LCD display.
- b. Push the Menu Button one more time and a setpoint temperature will be displayed.
- c. Push the Up or Down Button until the desired setpoint is displayed. N6DHPAC (w/shelving) = 32°F
- d. Push the Menu Button.
8. To adjust the differential:
   a. Push the Menu Button. “SP” will flash on the LCD display.
   b. Push the Down Button until “DIF” is shown on the LCD display.
   c. Push the Menu Button one more time and a differential number will be displayed.
   d. Push the Up or Down Button until the desired differential setting is displayed.

N6DHPACA (all applications) = 2°F

d. Push the Menu Button.

With the cooling mode selected, the differential is ABOVE the setpoint. The relay will energize and the LED indicator will illuminate when the temperature reaches the differential setting. When the temperature drops to the setpoint, the relay and LED indicator will de-energize and refrigeration will stop.

The settings above are specific to TYLER N6DHPACA cases. Other applications will require different setpoints and differentials.

**Electrical Procedures**

**Electrical Considerations**

**CAUTION**

Make sure all electrical connections at components and terminal blocks are tight. This will prevent burning of electrical terminals and/or premature component failure.

**NOTE**

Raceway covers will be shipped loose. See the “General-UL/NSF I&S Manual” for raceway cover installation and removal instructions.

**Case Fan Circuit**

This circuit is to be supplied by an uninterrupted, protected 120V circuit. The case fan circuit is not cycled.

**Fluorescent Lamp Circuit**

N6DHPACA case lighting is supplied by T-8 electronic ballast lights. The standard lighting is 1-row of horizontal canopy lights. Case lighting options include 2-rows of horizontal canopy lights, up to 5 rows of shelf lights and a nose light.

**Defrost Information**

See “General-UL/NSF I&S Manual” for operational descriptions for each type of defrost control.

**Defrost Control Chart**

<table>
<thead>
<tr>
<th>Defrost Type</th>
<th>Defrosts Per Day (w/ shelves)</th>
<th>Defrost Duration (Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off Time</td>
<td>6</td>
<td>18*</td>
</tr>
</tbody>
</table>

* 18 minutes is for EPR only. Defrost duration increases by 4 minutes when controller methods do not include an EPR valve.

**WIRING DIAGRAMS**

**ELECTRICIAN NOTE - OVERCURRENT PROTECTION**

120V circuits should be protected by 15 or 20 Amp devices per the requirements noted on the cabinet nameplate or the National Electrical Code, Canadian Electrical Code - Part 1, Section 28. 208V defrost circuits employ No. 12 AWG field wire leads for field connections. On remote cases intended for end to end line-ups, bonding for ground may rely upon the pull-up bolts.

The following wiring diagrams on pages 8 and 9 will cover the N6DHPACA case circuits. The defrost and lighting circuits are covered in the case circuit diagrams.
CLEANING AND SANITATION

Component Removal and Installation Instructions for Cleaning

Shelves and Shelf Brackets
1. Remove product from shelves.
2. If shelf has a light, unplug the light cord from the socket in the rear duct panel. Completely insert socket cover in the light socket to protect the receptacle.
3. Push shelves back and then lift up and out to remove them from the shelf brackets.
4. Remove shelf brackets from slots in rear uprights.
5. After cleaning, replace in reverse order.

Bottom Trays
1. Remove product from bottom of case.
2. Grasp and lift out each of the bottom trays from the case interior.
3. After cleaning, replace in reverse order.

Front Air Ducts
1. Remove lower trays, see this page.
2. Lift out front air duct sections.
3. After cleaning, replace in reverse order.

Rear Duct Panels (w/o Shelf Light Sockets)
1. Remove shelves and bottom trays, see above.
2. Remove mounting screws and rear duct panels from case.
3. After cleaning, replace and secure rear duct panels in reverse order.

Rear Duct Panels (with Shelf Light Sockets)
1. Remove shelves and bottom trays, see above.
2. For cases with 5 rows of lighted shelves, remove screw above top shelf socket and push socket assembly back through the hole in the rear duct panel.
3. Remove mounting screws from rear duct panel.
4. Slowly lift out rear duct panel until the shelf harness connector near the top of the panel can be accessed.
5. Disconnect shelf harness connector and complete removing the rear duct panel.

WARNING
Rear duct panels with electrical receptacles can be cleaned without removing the electrical receptacles. Do not get moisture on electrical wires when cleaning under this cover. Moisture on wires could cause premature product failure and/or personal injury or death from electrical shock.
6. After cleaning, reconnect the shelf harness connector: install the top socket assembly: replace and secure rear duct panels in reverse order.

Discharge Air/Ambient Air Honeycombs
1. Loosen screws securing rear retainer plate.
2. Slide rear retainer plate back until the honeycomb grid sections can be removed from the top duct.
   If secondary air baffle behind the honeycomb grid section needs to be cleaned, remove screws and secondary air baffle.

CAUTION
Improper installation of the honeycomb grid section could result in improper air flow and/or poor refrigeration.
3. After cleaning, replace components in reverse order, and secure with the rear retainer plate and screws.

Top Duct
1. Remove shelves and shelf brackets, see above.
2. Remove screws, rear retainer plate and honeycomb grid sections from top of case.
3. Remove screws and top duct from case.
4. After cleaning, replace top duct and remaining components in reverse order.
Front Cladding
1. Remove front kickplate and raceway cover. (See General-UL/NSF I&S Manual.)
2. Remove color band, bumper and bumper retainer from the case. (See General-UL/NSF I&S Manual.)
3. Remove screws for top and bottom of front cladding and remove cladding.
4. After cleaning, replace front cladding and remaining front components in reverse order.

GENERAL INFORMATION

High Performance Air Curtain (HPAC) Operating Information

Secondary ambient air fans are mounted on top of the case. These fans circulate air from the store atmosphere that creates a wall of air that keeps refrigerated air in the case and warm air out of the case. The final result is the most efficient operating case in the industry.

NOTE
When case is installed under a soffit with a facia, the facia must be removable to provide service access to the secondary ambient air fans.

NSF Product Thermometer Installation

1. Unwrap the thermometer and bracket assembly shipped loose with the case.

NOTE
Recommended bottom tray position is with the lips up.

2. Position bracket in front left corner of the left-most bottom tray. Making sure the bracket is flush with the left edge, use the bracket holes as a template for where to drill the holes.

3. Drill two .196" holes in the bottom tray.

NOTE
For ease of installation, position the washers and capnuts on the top side of the bracket and bottom tray.

4. Mount the bracket to the bottom tray with two screws, washers and capnuts.

Tyler's High Performance Air Curtain (HPAC) reduces case refrigeration load and energy usage. A secondary ambient air curtain acts as a wall to reduce cold air spillage from the primary air curtain and ambient air infiltration from the store atmosphere.
All egg shelves come galvanized or stainless steel. The upper egg shelves are 15” x 48” and come with 82 degree fixed white brackets. The brackets are available in one position only. The upper egg shelves assemblies include a rear air close-off.

Tilted base egg shelves come in 4’ modules. They are designed and notched to fit inside the existing 2’ bottom trays.

NOTE
Egg shelves are designed to catch and hold spilled liquids so they can be cleaned up before getting further into the case. If the tilted base shelves are used upside down, improper shelf support will result causing the middle of each shelves to sag. Upside down usage also allows drippage to get into the case making cleaning very difficult. Good sanitation is essential for egg merchandising.

SERVICE INSTRUCTIONS
See “General-UL/NSF I&S Manual” for T-8 lamp, canopy ballast, fan blade and motor, and color band and bumper replacement instructions.

Ballast and Lighting Locations

All light ballasts are located under the canopy and mounted above or on the top of the canopy light channel. This includes remote ballasts for optional shelf lights and optional nose lights. The canopy light(s) are under the canopy light channel in the top of the case. The optional shelf lights are mounted under the top interior liner above each shelf section.

Checking Air Velocities

NOTES
- Be sure area above the case is clear!
- Conditioned air must circulate above the case for secondary ambient air band intake!
- Do not block or restrict the top secondary ambient air fan grids!

Check air velocities with an Alnor, Jr Model 8100 Velometer with airscoop modification. Further information on the Velometer can be obtained from the TYLER Service Department.

N6DHPACA case air velocities should be as follows:

<table>
<thead>
<tr>
<th>Primary Air</th>
<th>Secondary Ambient Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 fpm</td>
<td>170 fpm</td>
</tr>
</tbody>
</table>

To check the primary air velocity, the Alnor, Jr scoop should be against the back edge of primary air portion of the grid with the meter facing the front of the case.

To check the secondary ambient air velocity, the Alnor, Jr scoop should be turned 90° so the scoop is perpendicular to the ambient air portion of the grid and the meter faces the end of the case.

Cleaning Honeycomb

Since the honeycomb is a single honeycomb that cover multiple air bands, it will require cleaning. How often will depend on the amount of dust and lint in the store air.

Need for cleaning can be determined by comparing clean honeycomb air velocities with what velocities are being produced when they are checked. See page 10 in this manual for cleaning instructions.
Secondary Ambient Air Fan Replacement

**WARNING**
Shut off or disconnect power supply to case before servicing a fan. Automatic cycling of fan or electrical power to wire ends could cause personal injury and/or death.

Secondary ambient air fans are located on top of the case near the front edge of the top panel. If top of case is behind a facia, remove facia to gain access to the fans.

**Fan Motor Replacement**

1. Remove screw and top fan guard (1).
2. Remove three screws mounting brackets (2) from top fan panel (3).
3. Carefully lift fan motor assembly (4) and unplug wire connector (5).
4. Remove three screws, bracket mounting plate (6) and mounting brackets (7) from top fan motor (4).

**NOTE**
If replacement blades and/or motor are not available, unplug motor and cover opening until the replacement parts are available.

5. Replace new secondary ambient fan motor assemblies in reverse order. Replace facia, if removed to access the fans.

**Fan Blade Replacement**

1. Remove fan motor assembly from top fan panel. See steps 1 thru 4 in “Fan Motor Replacement” on this page.
2. To replace fan blades (8), remove spring clips (9) and fan blade (8) from motor shaft (10). Discard spring clips.

3. Install new fan blade (8) on motor shaft (10) and secure with new spring clips (9).
4. Replace fan motor assemblies in the top fan panel. See step 5 in “Fan Motor Replacement” on this page.

**Removing Metal Edge Trim**
For those who have chosen a metal trim option on Tyler patch ends, the edge trim can be easily removed and reinstalled, or replaced. The diagrams below show the locations of two screws on the top and bottom of each piece of metal trim. Locate and unscrew the fasteners first, then carefully pull the edge trim from the end.
## PARTS INFORMATION

### Cladding and Trim Parts List

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>6'</th>
<th>8'</th>
<th>12'</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Screw</td>
<td>5183536 (4)</td>
<td>5183536 (6)</td>
<td>5183536 (8)</td>
</tr>
<tr>
<td>2</td>
<td>Screw</td>
<td>5183536 (8)</td>
<td>5183536 (8)</td>
<td>5183536 (8)</td>
</tr>
<tr>
<td>3</td>
<td>End Cover</td>
<td>9305824 (2)</td>
<td>9305824 (2)</td>
<td>9305824 (2)</td>
</tr>
<tr>
<td>4</td>
<td>Canopy Joint Trim</td>
<td>9029422</td>
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</tr>
<tr>
<td>5</td>
<td>Canopy Hood, Ptd.</td>
<td>9025222</td>
<td>9025223</td>
<td>9025224</td>
</tr>
<tr>
<td>6</td>
<td>Front Panel</td>
<td>5636774</td>
<td>5203468</td>
<td>5203469</td>
</tr>
<tr>
<td>7</td>
<td>Hand Rail/Bumper Retainer</td>
<td>color per order</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Hand Rail Backer</td>
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## Operational Parts List

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Contact the TYLER Parts Department for information on operational parts not listed above.
Revision Log

This log sheet is intended to track both major and minor revisions to this manual, and to describe what the nature of the revision is. Revision identification is located in the lower right corner of the cover page.

Major revisions are lettered alphabetically, dated accordingly, and require reprinting for inclusion with the product at shipment. Minor revisions are denoted after the major revision with a "period" followed by a sequential number, and do not require a printed update. All manuals with any revision changes will be available in electronic PDF format on the Tyler Refrigeration website.

Content changes that determine the type of revisions are decided on a case-by-case basis by Tyler internal management. This revision log was created in October of 2008.

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<th>DATE</th>
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<td>Oct 2008</td>
<td>E.1</td>
<td>Changed wiring diagrams ... Update Service Instructions ...</td>
<td>... added terminal blocks to electrical. ... added metal edge trim replacement.</td>
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<td>Apr 2009</td>
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<td>Updated fan blade info. on p.16...</td>
<td>... ECM fan blade p/n's &amp; blade angle chg.</td>
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