

ACS800

Installation Instructions
Air Intake from Below Kit
ACS800-07 Drives (45 to 560 kW)
ACS800-U7 Drives (50 to 600 HP)



ABB

ACS800 Single Drive Manuals

HARDWARE MANUALS (appropriate manual is included in the delivery)

ACS800-01/U1 Hardware Manual 0.55 to 110 kW (0.75 to 150 HP)
3AFE64382101 (English)

ACS800-01/U1/04 Marine Supplement 0.55 to 132 kW (0.75 to 150 HP)
3AFE64291275 (English)

ACS800-11/U11 Hardware Manual 5.5 to 110 kW (7.5 to 125 HP)
3AFE68367883 (English)

ACS800-02/U2 Hardware Manual 90 to 500 kW (125 to 600 HP)
3AFE64567373 (English)

ACS800-04 Hardware Manual 0.55 to 132 kW
3AFE68372984 (English)

ACS800-04/04M/U4 Hardware Manual 45 to 560 kW (60 to 600 HP)
3AFE64671006 (English)

ACS800-04/04M/U4 Cabinet Installation 45 to 560 kW (60 to 600 HP)
3AFE68360323 (English)

ACS800-07/U7 Hardware Manual 45 to 560 kW (50 to 600 HP)
3AFE64702165 (English)

ACS800-07/U7 Dimensional Drawings 45 to 560 kW (50 to 600 HP)
3AFE64775421

ACS800-07 Hardware Manual 500 to 2800 kW
3AFE64731165 (English)

ACS800-17 Hardware Manual 160 to 2500 kW (200 to 3000 HP)
3AFE68397260 (English)

- Safety instructions
- Electrical installation planning
- Mechanical and electrical installation
- Motor control and I/O board (RMIO)
- Maintenance
- Technical data
- Dimensional drawings
- Resistor braking

FIRMWARE MANUALS, SUPPLEMENTS AND GUIDES
(appropriate documents are included in the delivery)

Standard Application Program Firmware Manual
3AFE64527592 (English)

System Application Program Firmware Manual
3AFE63700177 (English)

Application Program Template Firmware Manual
3AFE64616340 (English)

Master/Follower 3AFE64590430 (English)

PFC Application Program Firmware Manual
3AFE64649337 (English)

Extruder Control Program Supplement 3AFE64648543 (English)

Centrifuge Control Program Supplement 3AFE64667246 (English)

Traverse Control Program Supplement 3AFE64618334 (English)

Crane Control Program Firmware Manual 3BSE11179 (English)

Adaptive Programming Application Guide
3AFE64527274 (English)

OPTION MANUALS (delivered with optional equipment)

ACS800-01/U1 Vibration Damper Installation Guide
3AFE68295351 (English)

Fieldbus Adapters, I/O Extension Modules etc.

ACS800-07 Drives
45 to 560 kW
ACS800-U7 Drives
50 to 600 HP

Installation Instructions Air Intake from Below Kit

3AFE68505241 Rev A EN
EFFECTIVE: 28.4.2005

Table of contents

ACS800 Single Drive Manuals	2
-----------------------------------	---

Table of contents

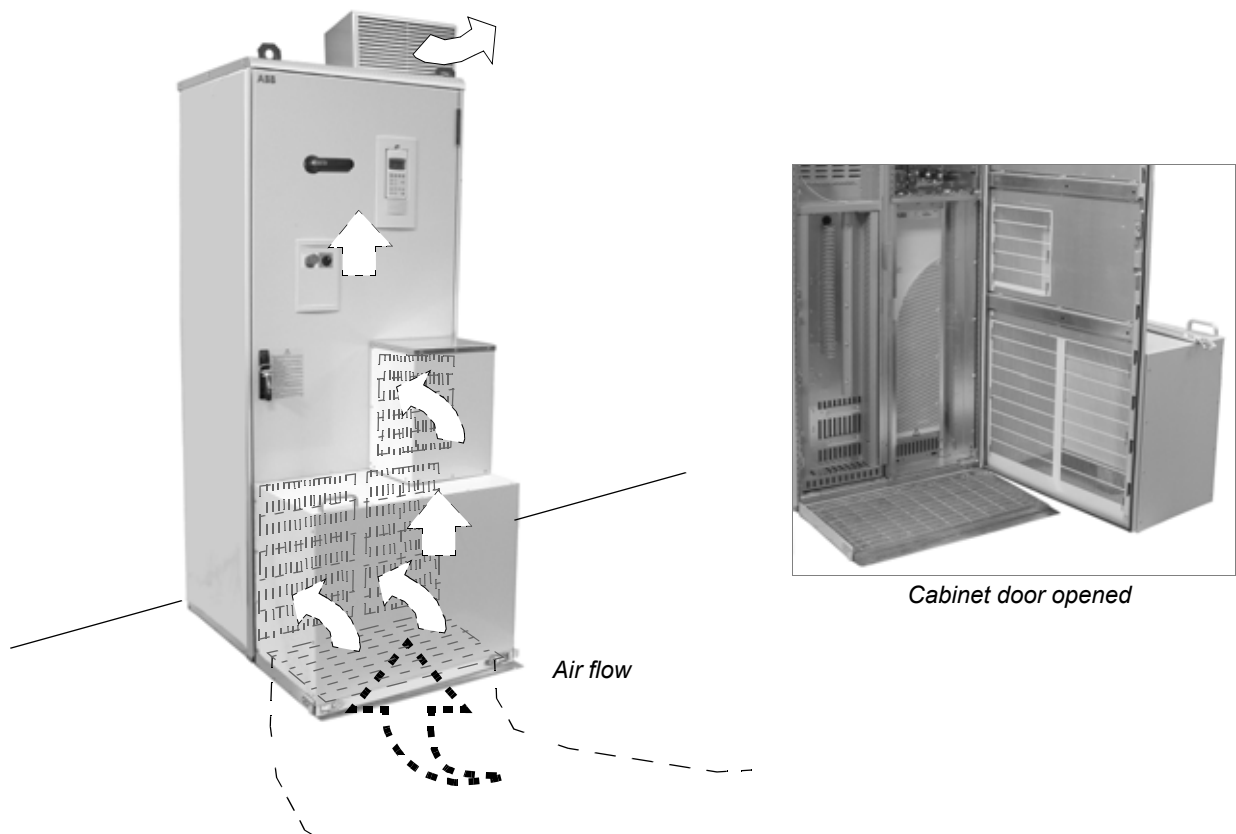
Installation instructions

Description	7
Parts	8
Exploded view of the installation	10
Installation procedure	11
Dimensional drawings	15

Installation instructions

Description

The Air Intake from Below Kit is an optional assembly kit for ACS800-07/U7 cabinets with degree of protection IP54 or IP54R. With the kit, cooling air can be led into the cabinet from an air duct located below the cabinet front.

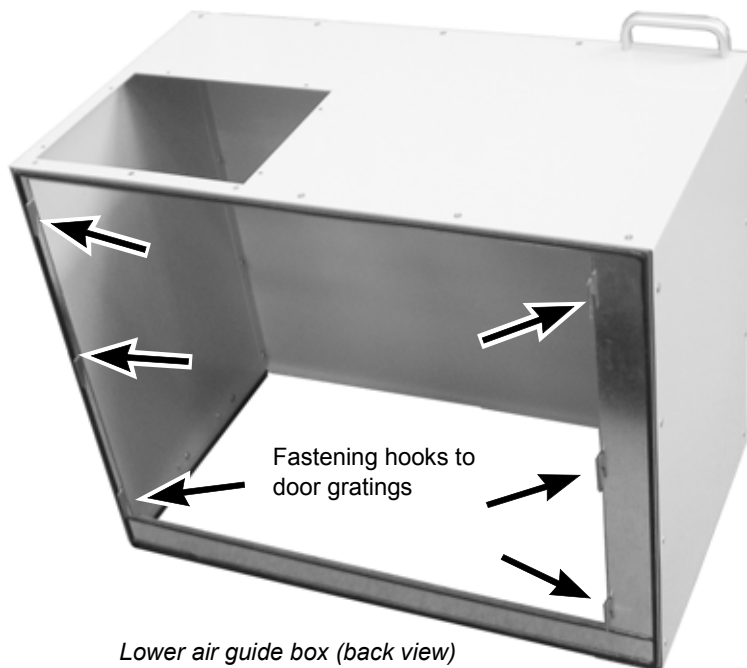


Cabinet door opened

The kit includes parts to be installed to the floor in front of the cabinet and air guide boxes to be installed to the cabinet door in front of the air inlet gratings. The “floor parts” and “door parts” are coupled together by a fastener. The cabinet door can be opened when the fastener has been unlocked without removing any other parts.



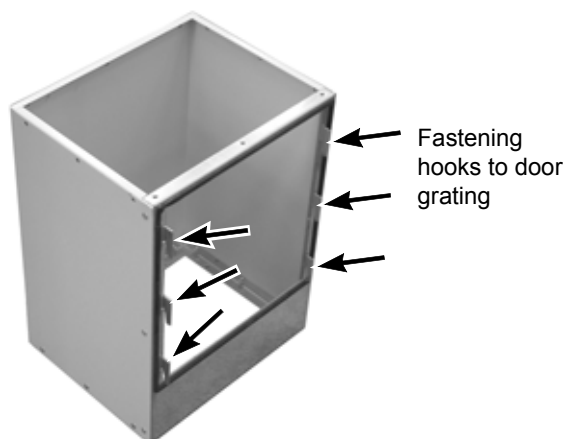
d Lower air guide box (front view)



Lower air guide box (back view)



e Upper air guide box (front view)

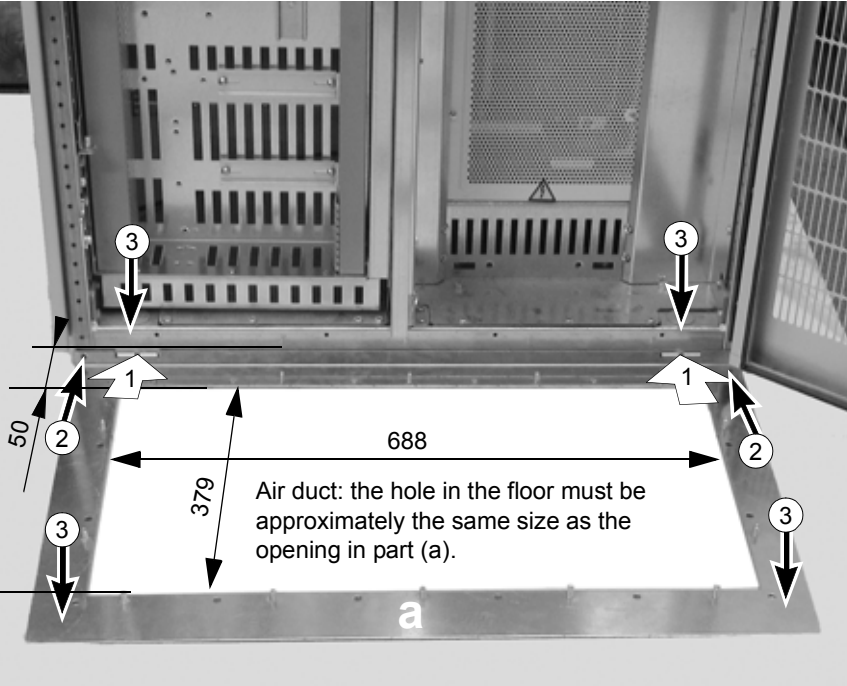
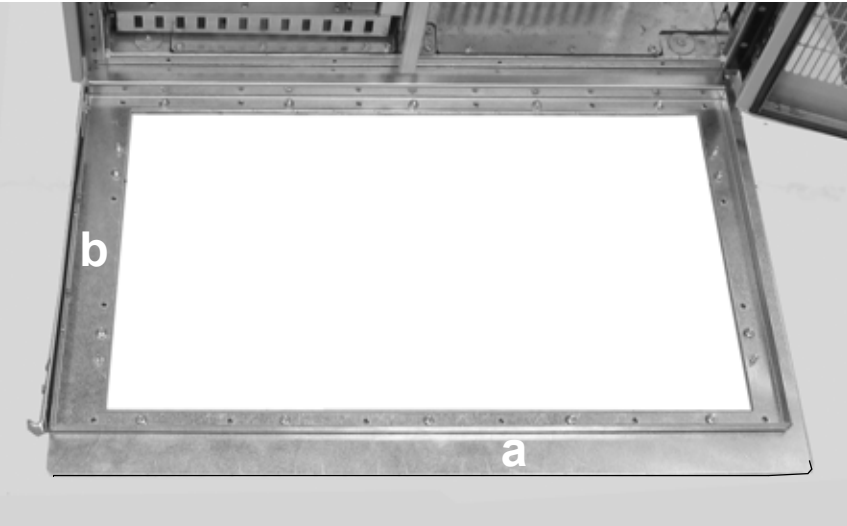


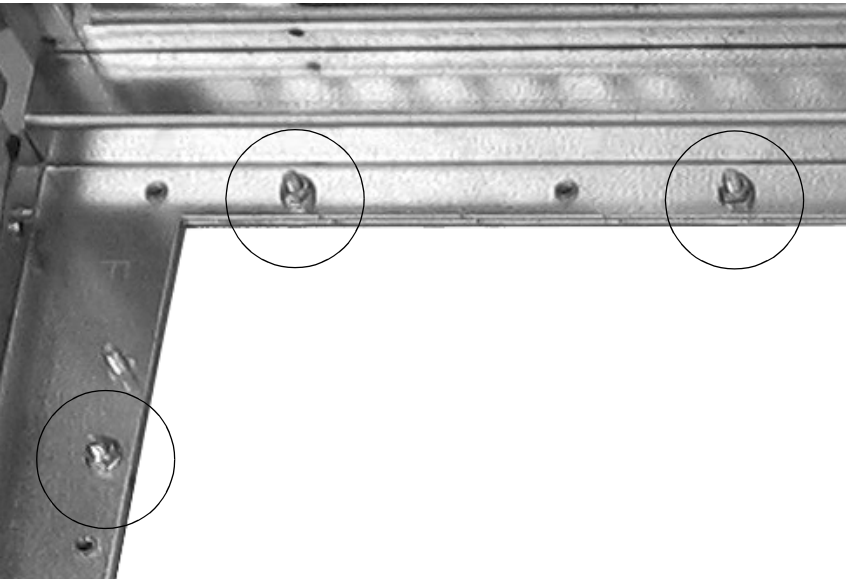
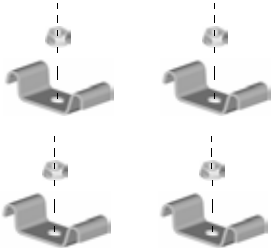
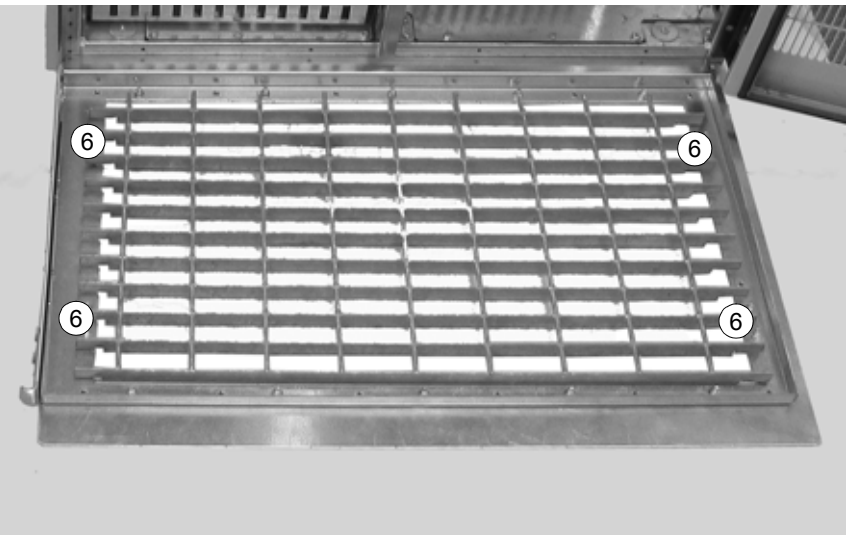
Upper air guide box (back view)

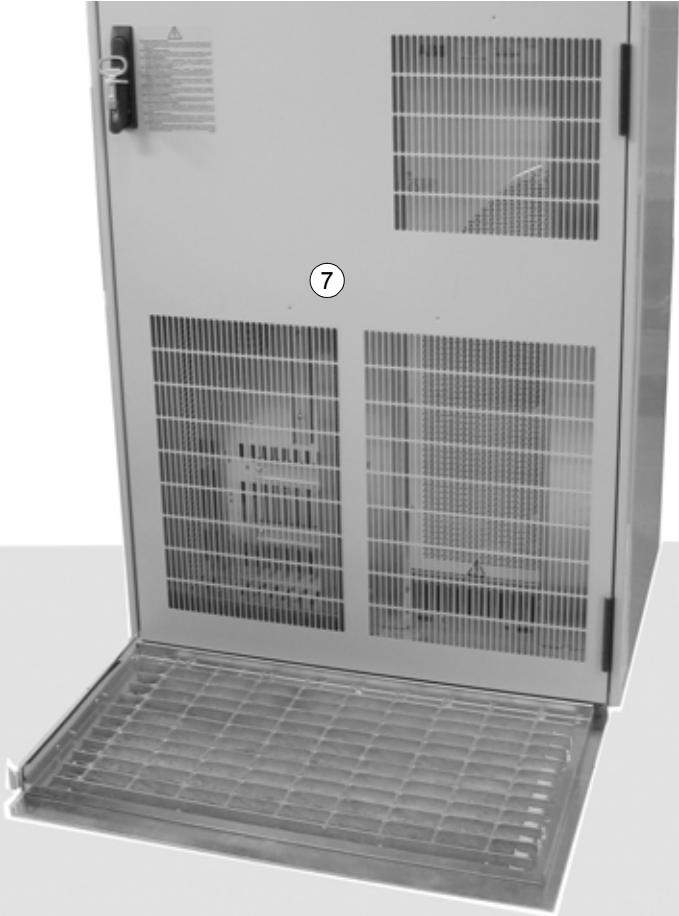
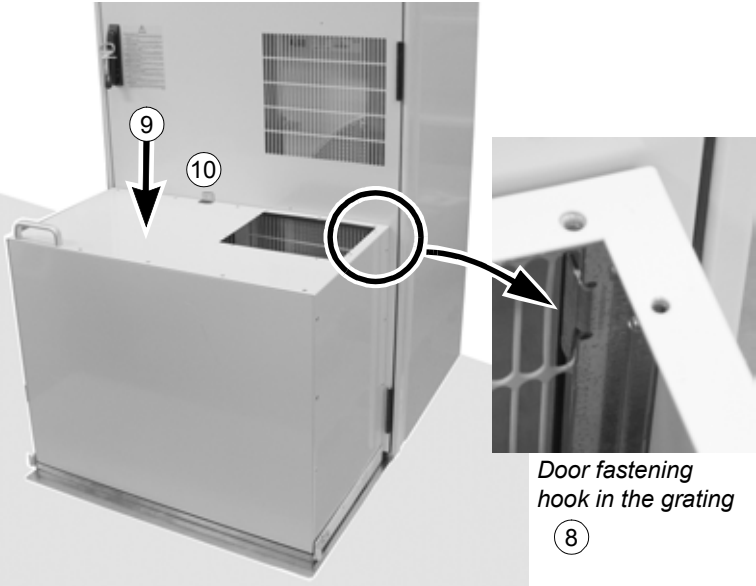


f Front fastener

Installation procedure

Step	Instruction	Photo
<p>1</p> <p>2</p> <p>3</p>	<p>1 Insert the tabs on the lower floor fastener (a) into the slots in the cabinet base.</p> <p>2 Fasten the lower floor fastener to the cabinet base with two screws.</p> <p>3 Fasten the lower floor fastener to the floor with four screws.</p>	 <p>50</p> <p>688</p> <p>379</p> <p>1</p> <p>2</p> <p>3</p> <p>1</p> <p>2</p> <p>3</p> <p>a</p> <p>Air duct: the hole in the floor must be approximately the same size as the opening in part (a).</p>
<p>4</p>	<p>4 Place the upper floor fastener (b) onto the lower floor fastener (a). Align the studs on the lower fastener with the counter holes in the upper one.</p>	 <p>b</p> <p>a</p>

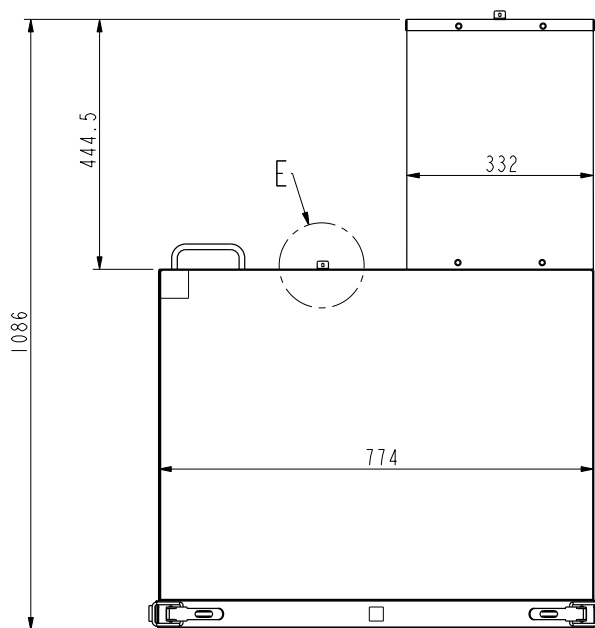
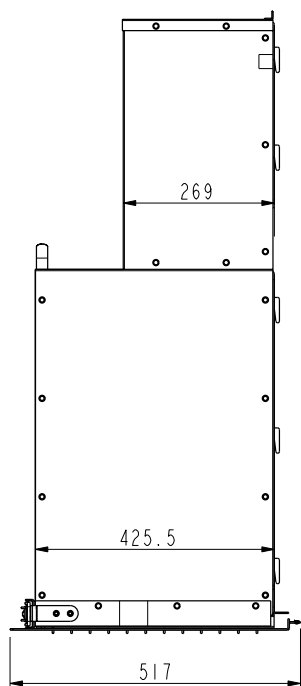
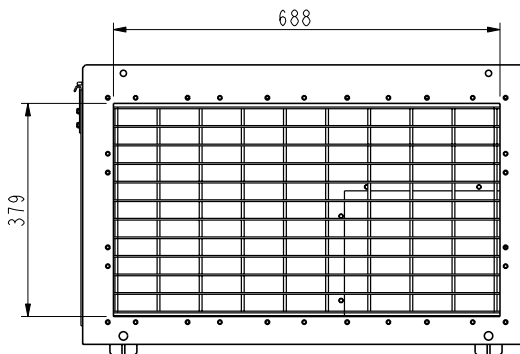
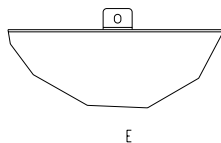
Step	Instruction	Photo
5	<p>Thread nuts onto the studs of the lower floor fastener (a) and tighten to join the floor fasteners together.</p>	
6	<p>Fasten the foot grating with four clamps.</p> 	

Step	Instruction	Photo
7	Shut the cabinet door.	
8	Slide the fastening hooks of the lower air guide box into the door gratings.	 <p data-bbox="1265 1749 1469 1805"><i>Door fastening hook in the grating</i></p>
9	Push the air guide box down.	
10	Fasten the air guide box to the door with the L-bracket (one screw).	

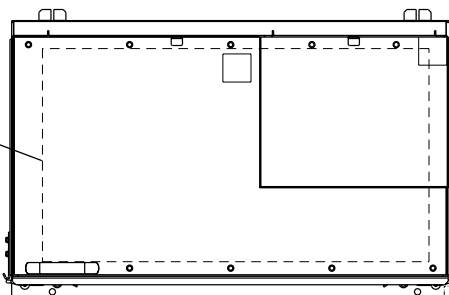
Step	Instruction	Photo
11	Slide the fastening hooks of the upper air guide box into the door gratings.	
12	Push the air guide box down.	
13	Join the upper and lower air guide boxes together with 9 screws.	
14	Fasten the air guide box cover with 9 screws.	
15	Fasten the air guide box to the door with the L-bracket (one screw).	
16	Latch both ends of the front fastener onto the hooks on the upper floor fastener.	

Dimensional drawings

Dimensional drawings with dimensions in millimetres are shown below. 1 mm = 0.03936996 in..



Dimensions of the hole in the floor 379 × 688, see page 7.



68405530 A



ABB Oy
AC Drives
P.O. Box 184
FI-00381 HELSINKI
FINLAND
Telephone +358 10 22 11
Fax +358 10 22 22681
Internet <http://www.abb.com>

ABB Inc.
Automation Technologies
Drives and Motors
16250 West Glendale Drive
New Berlin, WI 53151
USA
Telephone 262 785-3200
800-HELP-365
Fax 262 780-5135

3AFE68505241 Rev A EN
EFFECTIVE: 28.4.2005