



June 1, 1988
 Supersedes Service Guide 11-000,
 page 1, dated February 24, 1986
 Prices effective June 1, 1988;
 Subject to change without notice.
 Discount Symbol C85
 (Selling Policy 7000)
 Mailed to: E, D/11-000A

AMPGARD Medium Voltage Starters

Technical Assistance/AMPGARD Startup

I. Why Use This Service

2300-7200 volt motors represent a cost of \$10,000 to \$250,000 depending on type and horsepower. Protection and control of that investment demands quality equipment accurately installed and adjusted. Vacuum interruption and solid state device usage continues to grow as customers strive for higher system efficiency and utilization.

II. Description

The Control Division offers AMPGARD start-up – providing factory trained personnel for start-up supervision including:

1. Physical inspection of the AMPGARD equipment – electrical and mechanical
2. Verification of equipment to factory drawings and specifications
3. Review of fuse sizing, relay settings and protective device operation
4. Formal record of start-up and adjustment
5. Review and recommendation of spare parts.

This service is offered to provide reduced start-up time, detect installation wiring or procedural errors, and ensure proper equipment adjustment and performance. For additional details, refer to Service Policy SA 11423.

III. Pricing (Discount Symbol C85)

1. The table for start-up service pricing is valid only for service ordered with the AMPGARD equipment. Price each structure and add for the appropriate modifications and mileage charge.
2. Charges based on standard straight time workday. All weekend, holiday and overtime requirements in excess of 8 hours will be billed at existing premium rates.
3. All prices are net and include travel time and expenses to a single location within 50 miles radius of the nearest published Westinghouse Service Office. Beyond 50 miles, a mileage charge will be added per 25 miles or fraction thereof. Service locations listed on page 3.
4. If **Start-Up** is purchased, the service will be invoiced as a separate item and qualify the customer for a 24 month warranty from date of shipment. The normal AMPGARD parts only warranty is expanded during start-up to include repair or replacement labor by the Westinghouse service engineer.
5. Start-up must be purchased prior to equipment shipment to qualify for the published rates. Start-up service purchased after equipment shipment will be priced with a **25% premium**. All other conditions refer to Westinghouse.

6. All service performed outside the Start-Up scope in section listed in Section II will be performed only with written customer authorization or authorization by on-site customer representative. Charges for those additional technical services will be billed at the applicable rate in effect at time of service.
7. Continental U.S.A. only. Outside continental U.S.A. contact Westinghouse.
8. Additional terms and conditions per Westinghouse Selling Policy 31-000.

IV. Explanation of Customer Requirements

The **Start-Up** pricing is based on the AMPGARD and associated equipment being in a ready-to-run condition. For additional details, refer to Service Policy SA 11423.

1. All power and control wiring installed. All sequence and process signals available.
2. Provide qualified, technical personnel familiar with the facilities layout and total process operation. Also provide special drawings, instruction books and special start-up related equipment.
3. Provide minimum of two (2) weeks written advance notice for start-up service. Less than two (2) weeks notification may result in additional service charges.
4. Customer caused waiting or stand-by time and return trips caused by customer scheduling are additional charges and will be billed at prevailing hourly rates plus additional mileage charges for the return trip.
5. Correction of installation errors is not included with basic start-up service. However, if requested such changes will be invoiced on a time and material basis.

Note: Westinghouse cannot assume responsibility for the overall system and application. It is expected that qualified customer personnel will be available with the necessary knowledge and authority regarding the overall system.

Description	List Prices [Ⓢ]
Basic charge per AMPGARD Structure [Ⓢ]	\$880 – First Structure \$460 – Each Additional Structure
Modification Adders:	Included
Induction Starter or ADM Switch.....	\$ 220 Each
Air Conditioning Application	130 Each
Reversing Starters.....	130 Each
Autotransformer or Reactor Starter.....	490 Each
Synchronous or Wound Rotor Starter.....	610 Each
Type MVS4 Solid State Starter	1040 Each
AMPGARD Automatic Transfer Switch	1300 Each
Bus Connected Westinghouse Circuit Breaker	
Ⓢ Incoming line and transition sections are not priced as structures. Add per following:	
Section Without Metering and Instrumentation.....	220 Each
Section With Metering and Instrumentation	440 Each
Additional Technical Service	\$92/Hour
Mileage Charge (Beyond 50 Mile Radius).....	\$98/25 Miles or Fraction Thereof

Ⓢ Changed or added since previous issue.



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V. Optional Service

The following technical service is not specifically covered by AMPGARD **Start-Up** but can be combined with the service – contact Westinghouse for information and pricing.

- IQ 2000 program set point review/ recommendations \$500 p/motor.
- Retrofits, such as vacuum contactors and solid-state protection
- Maintenance and operation training sessions tailored to any specific requirements. Suggested topics include preventative maintenance, solid-state protection and testing, vacuum maintenance and basic motor control
- Recommended spare parts if not originally purchased with the equipment
- Revised factory Ampgard drawings reflecting "as installed" Ampgard alterations.



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New Information
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Atlanta, Georgia
1299 Northside Drive, N.W.
Atlanta, GA 30318

Boston, Massachusetts
10 California Avenue
Framingham, MA 01701

Chicago, Illinois
16750 Chicago Avenue
Lansing, IL 60438

Dallas, Texas
8400 John W. Carpenter
Dallas, TX 75247

Honolulu, Hawaii
1030 Mapunapuna Street
Honolulu, HI 96804

Los Angeles, California
18020 S. Santa Fe Ave.
Compton, CA 90221

Mobile, Alabama
1125 Corporate Dr., North
Suite 205
Mobile, AL 36607

Omaha, Nebraska
7100 West Center Road
Omaha, NE 68106

Phoenix, Arizona
1824 E. Jefferson Street
Phoenix, AZ 85034

St. Louis, Missouri
2060 Craigshire Road
St. Louis, MO 63146

San Francisco, California
2470 Estand Way
Pleasant Hill, CA 94523

Tampa, Florida
3018 US Highway 301 North
Suite 1000
Tampa, FL 33619

Baltimore, Maryland
6480-B Dobbin Road
Columbia, MD 21405

Buffalo, New York
700 Ellicott Square Bldg.
Buffalo, NY 14203

Cincinnati, Ohio
7710 Reading Road
Cincinnati, OH 45222

Denver, Colorado
1500 W. Hampden Avenue
Englewood, CO 80110

Houston, Texas
5722 Clinton Drive
Houston, TX 77020

Milwaukee, Wisconsin
205 Bishops Way
Elm Grove, WI 53122

New Orleans, Louisiana
3500 N. Causeway Blvd.
Metairie, LA 70002

Peoria, Illinois
7000 S.W. Adams Street
Peoria, IL 61607-0184

Pittsburgh, Pennsylvania
230 Alpha Drive
Pittsburgh, PA 15238

Salt Lake City, Utah
1290 West 2320 South
Suite D
West Valley City, UT 84119

Seattle, Washington
1180 Andover Park West
Seattle, WA 98188

Birmingham, Alabama
133 West Oxmoor Road
Suite 205
Birmingham, AL 35209

Charlotte, North Carolina
2001 W. Morehead Street
Charlotte, NC 28208

Cleveland, Ohio
4590 West 160th Street
Cleveland, OH 44135

Detroit, Michigan
24700 Eleven Mile Road
Southfield, MI 48037

Kansas City, Kansas
8900 Indian Creek Parkway
Building 6, Suite 200
Overland Park, KS 66210

Minneapolis, Minnesota
3501 S. Highway 100
Minneapolis, MN 55416

Hillside, New Jersey
1447 Chestnut Avenue
Hillside, NJ 07205

Philadelphia, PA
5081 West Chester Pike
Edgemont Plaza, Bldg. C
Edgemont, PA 19028

Richmond, Virginia
471 Southlake Boulevard
Richmond, VA 23236

San Diego, California
5450 Complex Street
Suite 309
San Diego, CA 92123

Syracuse, New York
6770 Old Collamer Road
East Syracuse, NY 13057



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