OBSOLETE

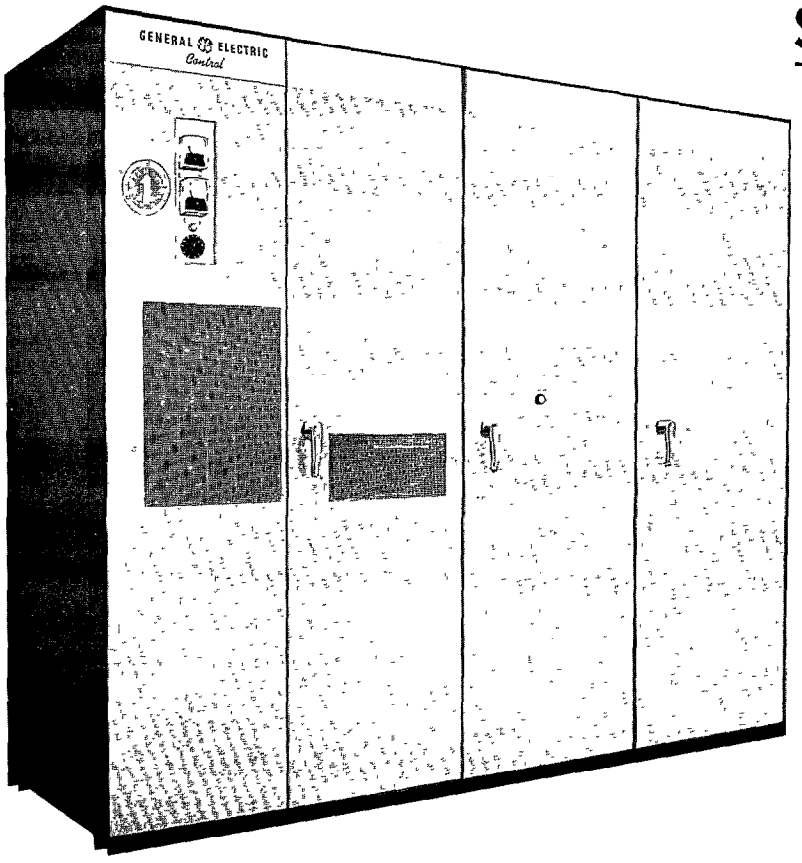
GEK-28546
use with
GEK-28543 (Section I)
GEK-28544 (Section II)
GEK-28545 (Section III)

SILTROL* I

IC 3610 Integrated Static Conversion and Control Equipment for Adjustable-Speed Drives

*TRADEMARK OF GENERAL ELECTRIC CO.

INSTRUCTIONS
SECTION IV



These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.

GENERAL ELECTRIC

CONTENTS

SAFETY PRECAUTIONS

During installation and maintenance all power sources should be removed.

Adjustment or testing of energized circuits should be done only by authorized persons who are familiar with hazards involved.

RENEWAL PARTS

1. POWER BRIDGE

In the event of failure of a thyristor cell a complete heat sink assembly should be replaced. The assembly is ordered by catalog number which is located as shown on Figure A. If a complete power bridge is required then refer to the power bridge catalog number which is located as shown.

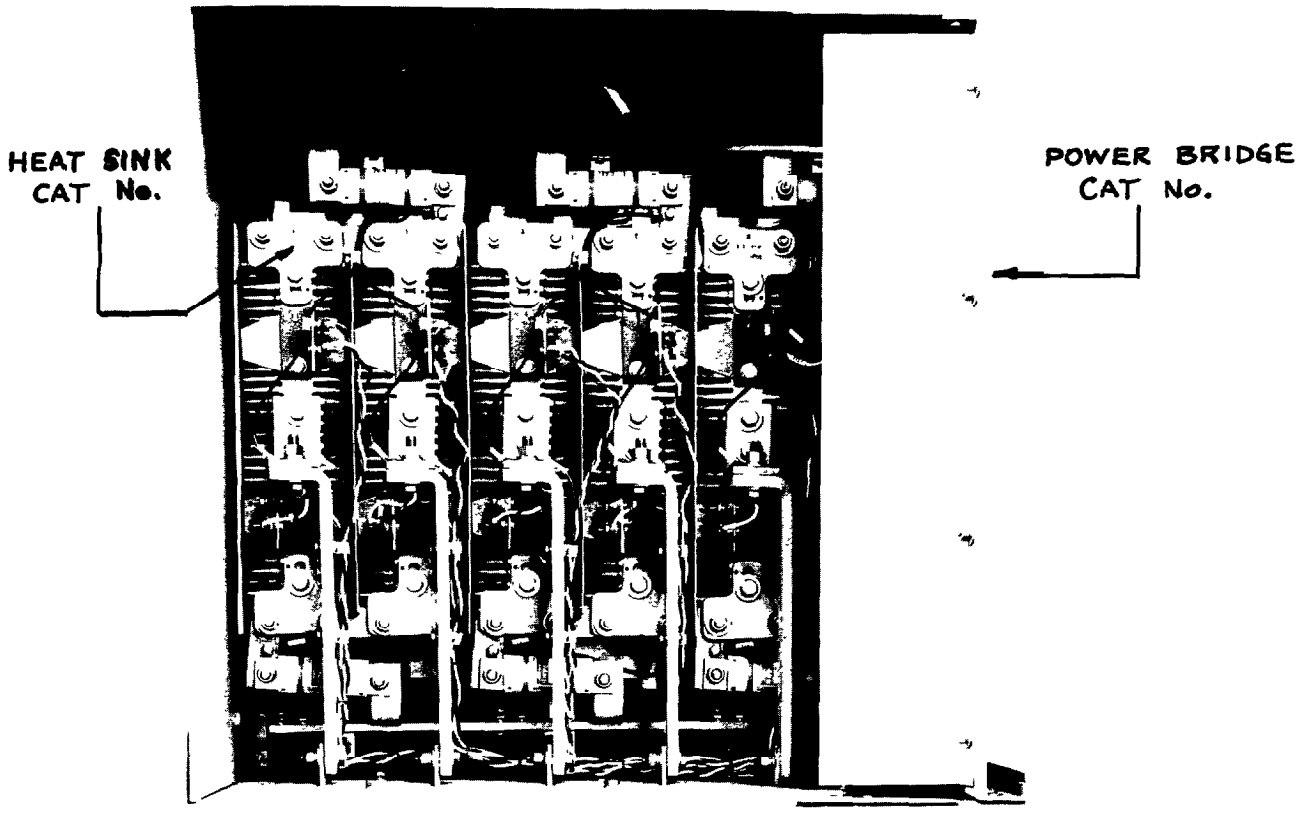
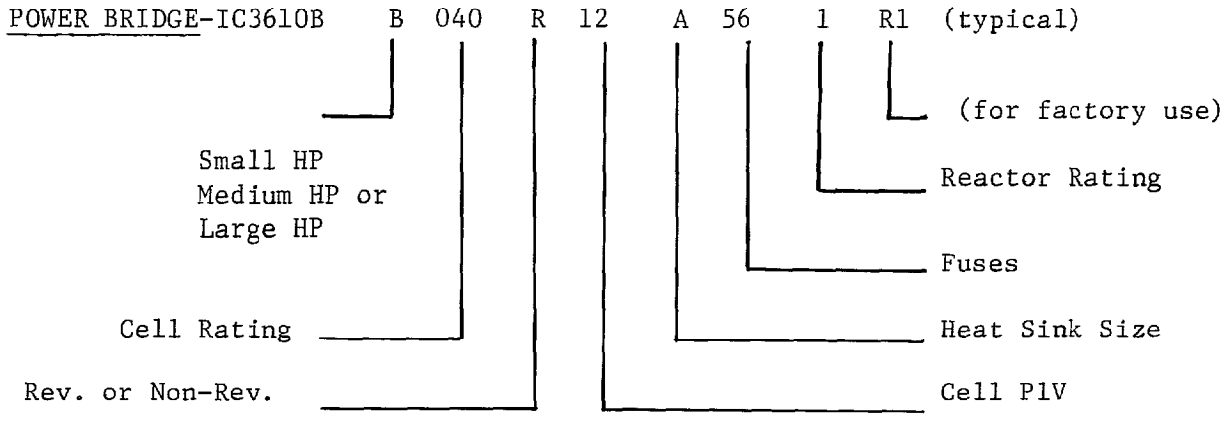
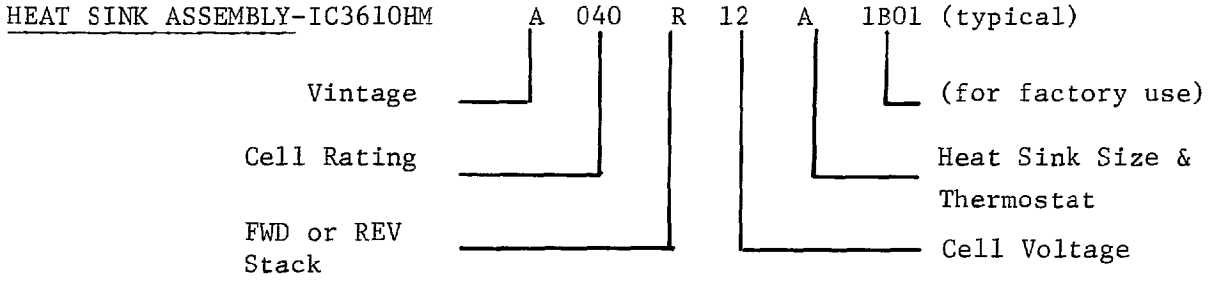


Figure A

POWER BRIDGE AND HEAT SINK ASSEMBLY CATALOG NUMBER

The catalog numbers for the Power Bridge and the Heat Sink Assembly will be of the form shown below and a complete breakdown is shown on sheets 3.0B and 3.0C of the Level 3 Power Bridge Elementary in Section 3 of this Instruction Book.





2. FIRING CIRCUIT

The firing circuit catalog number is located as shown in Figure B. The number is of the form shown below and a complete detailed breakdown is shown on Sheet 3.0G in the level 3 elementary of the firing circuit in Section 3 of this Instruction Book.

FIRING CIRCUIT CATALOG NO.

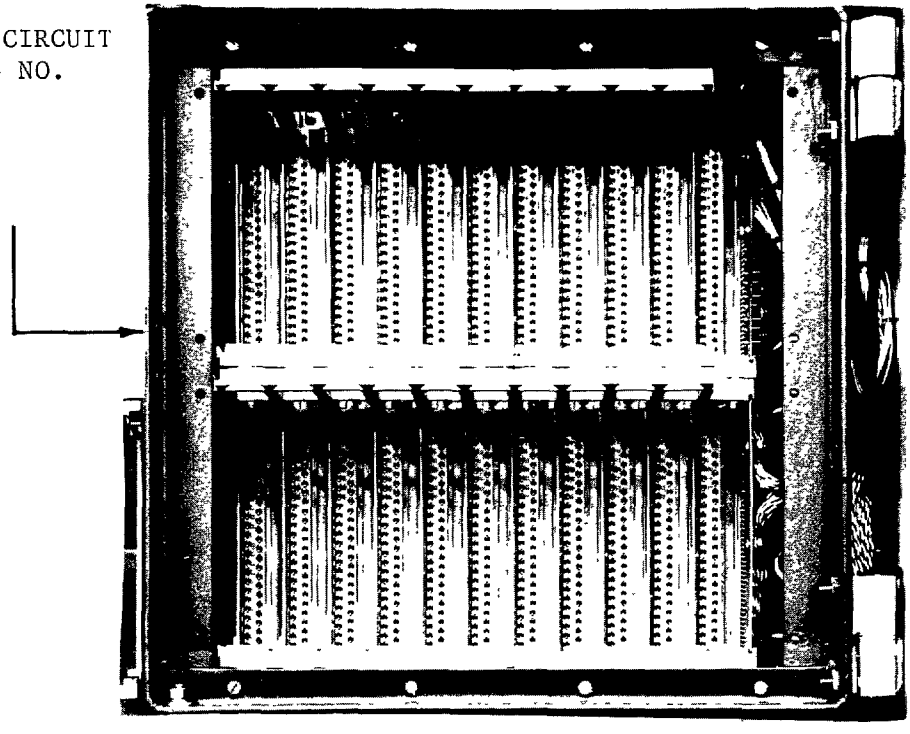


Figure B

IC3610F 000 R 1 C 6D 0X0X (typical)

- Design Vintage
- Rev. or Non-Rev.
- Voltage Reg. or no Voltage Reg.
- Current Feedback
- Power System Hz and Power secondary transformer connection (Δ or Y)
- Special Requirements Etc.

3. GATING MODULE

The gating module catalog number is located as shown in Figure C. The number is of the form shown below and a complete detailed breakdown is shown on Sheet 3.0B in the level 3 elementary of the gating module in Section 3 of this Instruction Book.

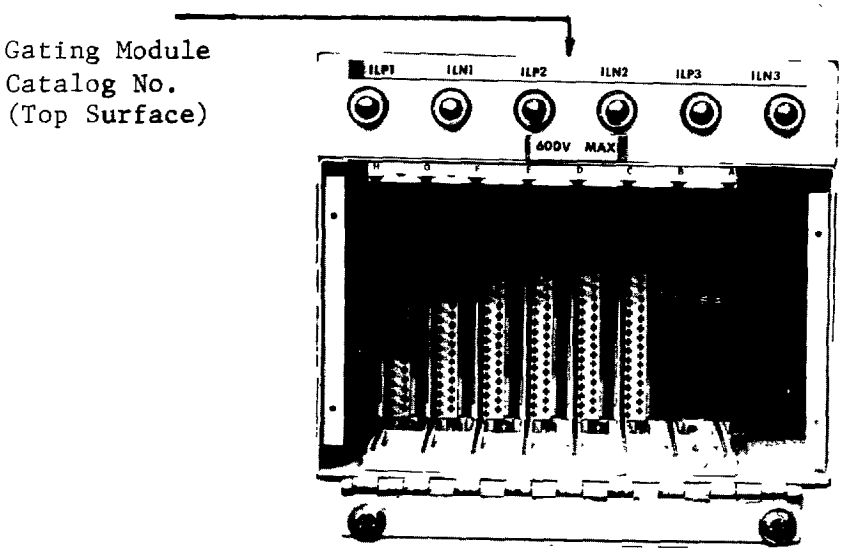
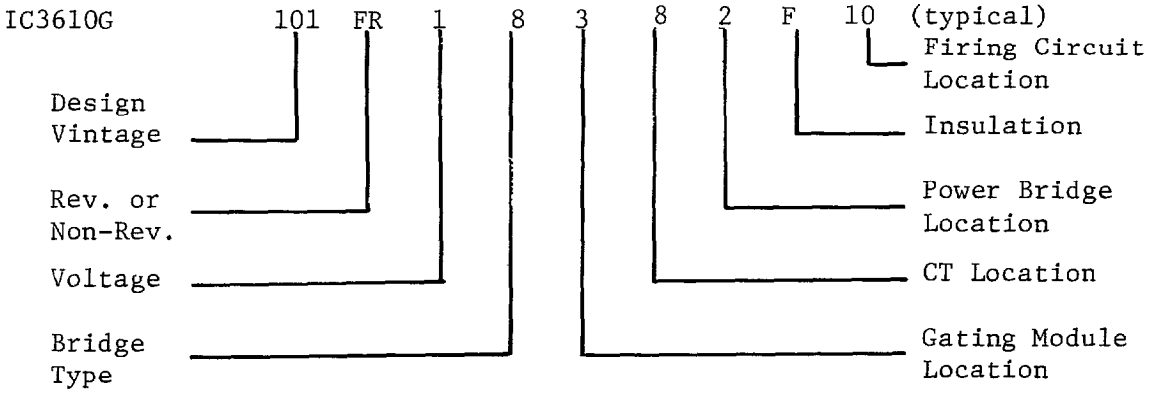


Figure C



SILTROL CARD INDEX

CARD DESCRIPTION	ELEMENTARY NUMBER	SHEETS
Operational Amplifier (1 per card)	IC3600AOAF1	3.0 to 3.1
Operational Amplifier (2 per card)	IC3600AOAF2	3.0 to 3.1
ACCT Rectifier	IC3600CCCA1	3.0 to 3.2
Meter Tap Switch	IC3600STFB1	3.0 to 3.2
Inverter Limit	IC3600T1LA1	3.0 to 3.2
60° Phase Shift Line Filter (60Hz)	IC3600TLFA1	3.0 to 3.2
60° Phase Shift Line Filter (50Hz)	IC3600TLFB1	3.0 to 3.2
30° Phase Shift Line Filter (60Hz)	IC3600TLFC1	3.0 to 3.2
30° Phase Shift Line Filter (50Hz)	IC3600TLFD1	3.0 to 3.2
Gate Pulse Amplifier	IC3600TPAB1	3.0 to 3.3
Gate Pulse Generator	IC3600TPGD1	3.0 to 3.4
67/9 Volt 2 Amp Converter	IC3600TPSE1	3.0 to 3.2
9/5.3V 2 Amp Regulator	IC3600TPSF1	3.0 to 3.3
67/38 Volt 0.5 Amp Converter	IC3600TPSG1	3.0 to 3.2
38/28V 0.5 Amp Regulator	IC3600TPSH1	3.0 to 3.3
$\pm$ 50V 0.4 Amp Power Supply	IC3600TPSJ1	3.0 to 3.2
Rev. Logic and Static IOC	IC3600TRLE1	3.0 to 3.2
Suppression and Bias	IC3600TSUD1	3.0 to 3.2
Start Up Control and Logic Coordination	PWB68A999405	3.0 to 3.1
Gate Driver (400V)	IC3600TGDA1	3.0 to 3.2
Gate Driver (350-380V)	IC3600TGDB1	3.0 to 3.2
Gate Driver (230-290V)	IC3600TGDC1	3.0 to 3.2
Start Up and Suicide	IC3600TSKA1	3.0 to 3.1
Relay	IC3600KRSD	3.0 to 3.4

GENERAL ELECTRIC COMPANY
DRIVE SYSTEMS DEPARTMENT
SALEM, VA., 24153

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