

Onan

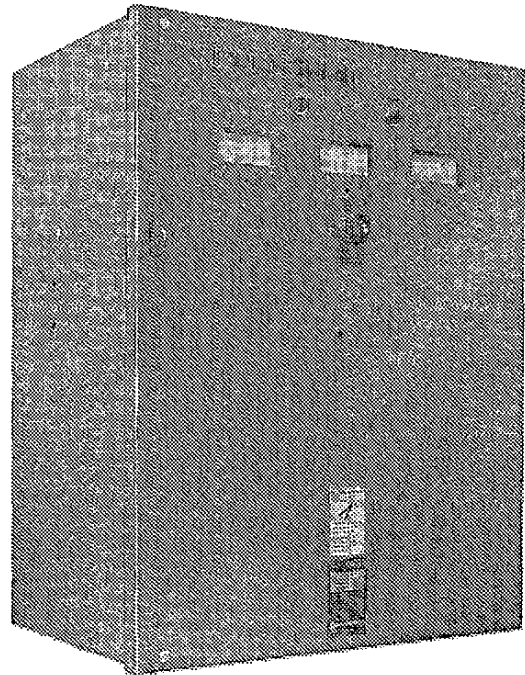
Service Manual

LT II

Switch

Starting Spec G

**Utility-to-GenSet
Automatic Control**



913-0502

5-88
Printed in U.S.A.

Safety Precautions

Before operating the transfer switch, read the Operator's Manual and become familiar with it and your unit. Safe and efficient operation can be achieved only if the transfer switch is properly operated and maintained. Accidents are caused by failure to follow fundamental rules and precautions.

Throughout this manual you will observe symbols, shown below, which indicate potential dangers to the operator, service personnel, or the equipment itself. Read the manual carefully and know when these conditions exist. Then take the necessary steps to protect personnel and the equipment.

⚠ DANGER *This symbol warns of immediate hazards which will result in severe personal injury or death.*

⚠ WARNING *This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.*

⚠ CAUTION *This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.*

ELECTRICAL SHOCK WILL CAUSE SEVERE PERSONAL INJURY OR DEATH.

The automatic transfer switch has components with high voltages which present serious shock hazards. For this reason, read the following suggestions.

- Keep the automatic transfer switch cabinet closed and locked. Make sure only authorized personnel have the cabinet keys.
- Before performing maintenance or making adjustments, move the operation selector switch on the generator set or automatic transfer switch to STOP. Then disconnect the starting batteries [(-) lead first] of the generator set and remove AC line power from the automatic transfer switch. If instructions state otherwise, use extreme caution due to the danger of shock hazard.
- Use rubber insulating mats placed on dry wood platforms over floors that are metal or concrete when working on any electrical equipment. Do not wear damp clothing (particularly wet shoes) or allow skin surfaces to be damp when handling electrical equipment.
- Jewelry is a good conductor of electricity and should be removed when working on the electrical equipment.
- Do not work on this equipment when mentally or physically fatigued, or after consuming any alcohol or drug that makes the operation of equipment unsafe.
- Copy and post these suggestions in a prominent area of the transfer switch.

Table of Contents

SECTION	TITLE	PAGE
1	GENERAL INFORMATION	1-1
	About this Manual	1-1
	Model Number System	1-1
2	OPERATION DESCRIPTION	2-1
	General	2-1
	Component Descriptions	2-1
	—Cabinet Exterior	2-1
	—Cabinet Interior	2-2
	Normal Operation	2-6
	Power Outage	2-7
	Generator Set Starting Circuits	2-7
	Restoration of Commercial Power	2-9
	Simulation of Power Outage	2-9
3	ADJUSTMENTS	3-1
	General	3-1
	Control Relays	3-1
	Exerciser Clock	3-3
	Battery Charger	3-5
	Preheat Time Delay	3-6
	Programmed Transition	3-6
4	TRANSFER SWITCH ASSEMBLY	4-1
	General	4-1
	Replacing Auxiliary Switch	4-1
	Replacing Main Contacts	4-2
	Replacing Closing Coil	4-3
	Replacing Mechanical Latch	4-3
5	TROUBLESHOOTING	5-1
	General	5-1
	Normal Automatic Operation Sequence	5-2
	Typical Problems	5-4
	—Power Outage Occurs, But Generator Set Does Not Start	5-4
	—When Generator Set is Started Manually, Transfer Switch Transfers Load (Normal Line On)	5-4
	—Generator Set Starts But Does Not Assume Load	5-4
	—No Transfer of Load From Generator Set to Normal Power	5-5
	—Generator Set Continues to Run After Retransfer of Load to Normal Power	5-5
	—Generator Set Starts During Normal Power Service	5-5
	—Generator Set Does Not Exercise	5-5
	—Battery Charger Fails to Charge	5-6

BUY NOW

**Then Instant Download
the Complete Manual
Thank you very much!**