



Prodigy Family Hoist

Operations Manual

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Table of Contents

- Introduction1
 - Document Conventions.1
 - Help from ETC Technical Services2
- Hoist Specifications4
- Safety6
 - Working Load Limit.7
- Preventative Maintenance8
- Troubleshooting9

Introduction

Welcome to the Prodigy Family Hoist Operations Manual. The purpose of this manual is to provide your facility personnel with details surrounding the operations and maintenance of your ETC Prodigy hoist.

Document Conventions

This document uses the following conventions to draw your attention to important information.



Note: *Notes are helpful hints and information that is supplemental to the main text.*



CAUTION: *A Caution statement indicates situations where there may be undefined or unwanted consequences of an action, potential for data loss or an equipment problem.*



WARNING: A Warning statement indicates situations where damage may occur, people may be harmed, or there are serious or dangerous consequences of an action.



WARNING: RISK OF ELECTRIC SHOCK! This warning statement indicates situations where there is a risk of electric shock.

All ETC documents are available for free download from our website: etcconnect.com.

Please email comments about this manual to: TechComm@etcconnect.com.

Help from ETC Technical Services

If you are having difficulties, and your problem is not addressed by this document, try the ETC support website at support.etconnect.com or the main ETC website at etconnect.com. If none of these resources are sufficient, contact ETC Technical Services directly at one of the offices identified below. Emergency service is available from all ETC offices outside of normal business hours.

When calling for help, take these steps first:

- Prepare a detailed description of the problem
- Go near the equipment for troubleshooting
- Find your notification number if you have called in previously

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Hoist Specifications

The following table provides hoist specifications for all of the Prodigy hoists, sorted by motor voltage:

Motor Voltage: 208V 3 Wire + Ground

Hoist Model	Motor Size	Current Draw	Inrush Current
P650E P800G EXOP900G	1.5 HP	5.0 A	16.8 A
P1000E P1300G EXO P1400G	1.5 HP	6.5 A	16.8 A
P1500E P1900G EXO P2000G	2.0 HP	10.5 A	32.6 A
P2	1.5 HP	5.0 A	23.7 A
P75 - 2000G	1.5 HP	10.5 A	32.6 A
P75 - 2000GS	1.5 HP	10.5 A	N/A
P75 - 3300GS	1.5 HP	10.5 A	N/A
FlyPipe 1.0 HP	1.0 HP	3.8 A	17.5 A
FlyPipe 1.5 HP	1.5 HP	4.2 A	41.6 A

Motor Voltage: 480 3 Wire + Ground

Hoist Model	Motor Size	Current Draw	Inrush Current
P650E / 480V P800G / 480V EXO P900G / 480V	1.5 HP	2.5 A	8.4 A
P1000E / 480V P1300G / 480V EXO P1400G / 480V	1.5 HP	3.25 A	8.4 A
P1500E / 480V P1900G / 480V EXO P2000G / 480V	2.0 HP	5.25 A	16.5 A
V1000S EXO V1200S	7.5 HP	15.0 A	N/A
P2 / 480V	1.5 HP	2.5 A	21.7 A
P75 - 2000G / 480V	1.5 HP	5.25 A	16.5 A
P75 - 2000GS / 480V	1.5 HP	5.25 A	N/A
P75 - 3300GS / 480V	1.5 HP	5.25 A	N/A
P75 - V1200S / 480V	5.0 HP	15.0 A	N/A
FlyPipe 1.0 HP / 480V	1.0 HP	1.8 A	7.5 A
FlyPipe 1.5 HP / 480V	1.5 HP	2.1 A	22.8 A

Motor Voltage: 400V 3P + N + PE

Hoist Model	Motor Size	Current Draw	Inrush Current
P650E / 400V P800G / 400V EXO P900G / 400V	1.1 kW	2.5 A	12.25 A
P1000E / 400V P1300G / 400V EXO P1400G / 400V	1.1 kW	3.25 A	12.7 A
P1500E / 400V P1900G / 400V EXO P2000G / 400V	1.5 kW	5.25 A	26.8 A
V1000S / 400V EXO V1200S / 400V	5.6 kW	15.0 A	N/A
P2 / 400V	1.1 kW	2.5 A	N/A
P75 - 2000G / 400V	1.1 kW	3.0 A	14.7 A
P75 - 2000GS / 400V	1.1 kW	3.0 A	N/A
P75 - 3300GS / 400V	1.1 kW	3.0 A	N/A
P75 - V1200S / 400V	5.5 kW	15.0 A	N/A
EVF - 0509	7.125 kW	15.7 A	N/A
EVF - 0901	1.125 kW	3.3 A	N/A

Safety

Only ETC Rigging trained personnel are authorized to install and configure Prodigy hoists and any related equipment.

Please note the following safety notices before use:



WARNING: ETC Rigging systems must be installed under the supervision of a person trained and certified in ETC Rigging Installation. If you are not an ETC Rigging trained technician, do not attempt installation of this equipment unless you are under the immediate supervision of an ETC Rigging Certified Installer.



WARNING: Improper operation may cause serious injury or death.



AVERTISSEMENT: Un fonctionnement incorrect peut provoquer des blessures graves, voire mortelles.



WARNING: Disconnect power before servicing this equipment.



AVERTISSEMENT: Déconnectez l'alimentation avant d'effectuer l'entretien de cet équipement.



WARNING: ETC Prodigy hoists and QuickTouch and Foundation control equipment should not be operated by a user until installation and configuration have been completed by an ETC Rigging trained and certified installer. Only ETC Rigging trained and certified installers are authorized to operate equipment during the installation and configuration process.



WARNING: ETC Prodigy hoists and QuickTouch and Foundation control equipment are designed for the raising and lowering of loads within the approved hoist capacity only. This equipment is not designed to lift or automate personnel and such use is strictly prohibited.



WARNING: ETC Prodigy hoists must only be used to move a maximum load equal to or less than the capacity of your specific hoist. Overloading the hoist may result in damage to the system or serious injury.



AVERTISSEMENT: Les porteurs de Prodigy doivent uniquement être utilisés pour déplacer une charge maximale équivalente ou inférieure à sa capacité nominale. Une surcharge de l'appareil peut entraîner l'endommagement du système et d'autres biens, des blessures graves, voire la mort.



WARNING: If it is necessary to operate a hoist from a location where the operator's view of the moving load is obstructed, a second person must be used to observe the load and communicate to the operator.



WARNING: The floor directly below the hoist system must be clear of all personnel and equipment before any movement is permitted.

Working Load Limit

The Working Load Limit (WLL) of any hoist is the maximum load capacity that a user may apply to a hoist or a hoist system.

All Prodigy hoists have a Working Load Limit. This is identified on the product label of the hoist. Prodigy Working Load Limits include a design-safety factor.



WARNING: NEVER exceed the Working Load Limit for any hoist.

Preventative Maintenance

In order to preserve a safe and efficient hoist system, it is necessary to implement a regular and continual preventative maintenance program. Listed below are critical areas of the hoist system that need consistent review, inspection, and/or correction.

This list is a guideline to assist in establishing a maintenance program, but cannot replace ongoing visual inspection by operating personnel. Contact ETC immediately if any irregularities are found! The Powered Hoist System ANSI 1.6-1 standard stipulates that all systems shall be inspected annually. To help prevent system failures, ETC recommends a professional inspection at least once a year and provides a three-year warranty for your system when this stipulation is met.



WARNING: RISK OF DEATH BY ELECTRIC SHOCK! Make sure the upstream source of power is off or isolated. Follow appropriate Lockout/Tagout procedures as described in NFPA Standard 70E.



AVERTISSEMENT: RISQUE DE MORT PAR ÉLECTROCUTION! Assurez-vous que la source d'alimentation en amont est éteinte ou isolée. Suivez les procédures de Consignation/Déconsignation appropriées prescrites par la norme NFPA 70E.



Note: *Run the system for a minimum of 2 minutes every month in order to ensure proper self lubrication. Neglect may result in damage to the rigging system.*

Periodic inspections when operating the hoist should include the following:

Swaged Connectors	Look for wire rope damage where the swaged connector contacts the cable. Check for broken cable strands.
Turnbuckles/RACAs	Check that cotter pins and pin nuts, or bolts and nuts are in place and secure. Check that pins in jaws are not bent. If bent pins are found, the set has been overloaded and should be replaced immediately. Check that mousing wire is in place.
Wire Rope	Check for worn areas, kinks, broken strands, corrosion, and any deformation. Examine cable runs for any obstructions or sources of abrasion.
Flange Bearings	Check for damage.
Primary Gear Motor	Listen for unusual noises such as squeaking or grinding, which may indicate the need for lubrication or brake adjustment. Check for oil leaks.
Electrical	Check to ensure that electrical flex connections are secure and that no wires or connections have been pulled apart. WITH ALL POWER OFF, open cabinets and verify that wires are clean and orderly. Check that all cabinet doors are properly secured prior to energizing.
Hoist Assembly (P75 and Vortek only)	Check that all cables are smoothly wrapped on drum. If excessive dirt is accumulating on drum, steps must be taken to remove and prevent this accumulation.
Block Assemblies	Check for damage.
Prodigy Cable Management	Check that all tools and other materials are cleared from the trough.

Troubleshooting



CAUTION: *If any failure of the normal limit switch system occurs and the operator does not stop the hoist before the hoist reaches a point beyond the normal up and down operating limit, the hoist will be stopped by the overtravel limit and will be disabled until the fault can be identified and corrected.*

The hoist control system (if equipped) will indicate that there is a fault condition by illuminating the "OVERTRAVELRESET" and/or "FAULT" indicator. If the fault cannot be reset, call ETC immediately.

The following information requires testing of equipment while it is still energized with power and should only be performed only by a trained electrician. This section describes some common conditions that could occur, causing the hoist to not function properly. If a condition presents itself that is not covered by the list below, or the condition is still present after completing the solution, contact ETC Technical support.



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Issue	Cause	Solution
Hoist will not respond to push button control	E-stop push button(s) are activated	Release all E-stops
	Local/Remote switch (if equipped) in wrong position	Turn Local/Remote selector switch to proper position
	Fault and/or error message appear on hoist control system	Power cycle hoist control system
	The nine-pin grey communications cable is not plugged in	Plug in the nine-pin grey communications cable
	The controller is powered off	Power up the controller and allow the system to perform a self test
Hoist will not move in the DOWN direction	Lower control limit has been reached	Move the hoist up by pressing the UP push button
	Load Too Light fault on hoist control system display	Contact ETC Technical Services
Hoist will not move in the UP direction	Upper control limit has been reached	Move the hoist down by pressing the DOWN push button
	Load Too Heavy fault on hoist control system display	Contact ETC Technical Services



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