



INSTALATION AND MAINTENANCE MANUAL FOR JOCKEY PUMP CONTROLLERS

GENERAL DESCRIPTION

The jockey pump controllers are specifically designed to control jockey pumps for maintaining the designed water pressure in fire

pump serviced systems. A jockey pump installation prevents short cycling of the fire pump due to small leaks.

TYPES OF JOCKEY PUMP CONTROLLERS

MODEL JP, JOCKEY PUMP CONTROLLER ACROSS-THE-LINE STARTER:

This model is specifically designed to control jockey pump for maintaining the designed water pressure in fire pump serviced systems. A jockey pump installation prevents short cycling of the fire pump due to small leaks.

MODEL JPY, JOCKEY PUMP CONTROLLER WYE-DELTA OPEN TRANSITION STARTER:

This model is specifically designed to control jockey pump for maintaining the designed water pressure in fire pump serviced systems. A jockey pump installation prevents short cycling of the fire pump due to small leaks.

MODEL DJP, DUAL POWER SOURCE SIMPLEX JOCKEY PUMP CONTROLLER:

This model is designed to accept two separate power sources (i.e. normal & alternate) and to control jockey pumps for maintaining the designed water pressure in fire pump serviced systems and therefore prevent short cycling of the fire pump due to small leaks. An automatic switchover device automatically connects the jockey pump to alternate power in case of normal power failure. This system maintains the jockey pump operational under all circumstances and eliminates unnecessary starting of the fire pump with all associated consequences (i.e. high power drain, load shedding, undesirable alarms, ...)

MODEL JPD, JOCKEY PUMP DUPLEX CONTROLLER:

This model is designed to alternatively control two jockey pumps (lead & standby) for maintaining the designed water pressure in fire pump serviced systems and therefore prevent short cycling of the fire pump due to small leaks. The presence of a 100% standby jockey pump associated with a circuit that alternates lead & standby jockey pumps each time, provides full back up and easy maintenance of the system (any pump can be manually selected as lead).

MODEL DJD, DUAL POWER SOURCE DUPLEX JOCKEY PUMP CONTROLLER:

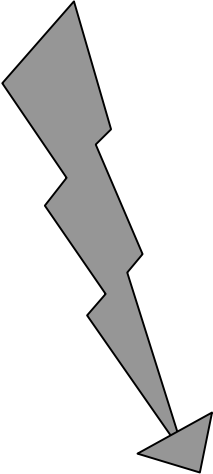
This model is designed to accept two separate power sources (i.e. normal & alternate) and to alternatively control two jockey pumps (lead & standby) for maintaining the designed water pressure in fire pump serviced systems and therefore prevent short cycling of the fire pump due to small leaks. An automatic switchover device automatically connects the jockey pump to alternate power in case of normal power failure. This system maintains the jockey pump operational under all circumstances and eliminates unnecessary starting of the fire pump with all associated consequences (i.e. high power drain, load shedding, undesirable alarms, ...)

The presence of a 100% standby jockey pump associated with a circuit that alternates lead & standby jockey pumps each time, provides full back up and easy maintenance of the system (any pump can be manually selected as lead).

INSTALLATION

Only quality components, all UL listed or recognized and CSA certified are used throughout to assure the best possible reliability.

The complete assembled and wired controllers are factory tested before shipping and are ready for immediate installation.

	DANGER
	<u>HAZARDOUS VOLTAGE IS PRESENT IN THE ENCLOSURE WHICH WILL CAUSE SEVERE PERSONAL INJURY OR DEATH.</u>
	MAINTENANCE OR START UP SHOULD BE PERFORMED ONLY BY EXPERIENCED LICENSED ELECTRICIANS.
	ONLY QUALIFIED PERSONNEL SHOULD WORK ON OR AROUND THIS EQUIPMENT.

Precautions before start up after long storage.

1. Carefully inspect and clean equipment.
2. Inspect and retighten all electrical connections.
3. Perform visual inspection of the power contacts of the main contactor, circuit breaker and disconnect switch.
4. Perform a no load test and check all continuities.

START-UP AND TEST PROCEDURES

The jockey pump controller has to be installed indoor. An outdoor installation may alter paint color.

VERIFICATIONS

ELECTRICAL INSTALLATION

A representative for the electrical contractor responsible for the installation shall be available on-site to assist during the verification of the following points and the actual start-up.

All electrical label ratings meet incoming power voltage and frequency as well as motor voltage, HP and frequency.

All electrical connections in controller are tight. Retighten if necessary.

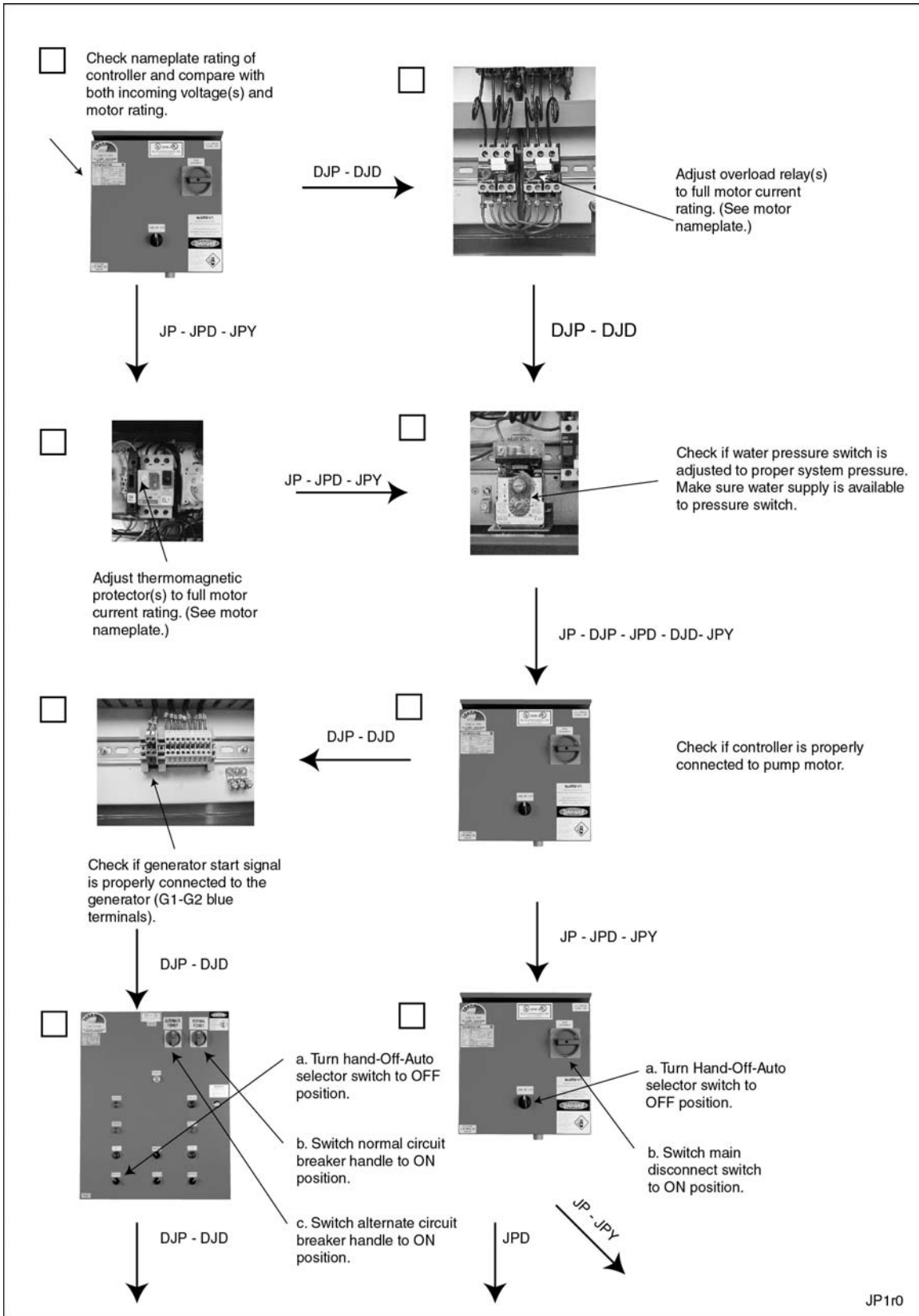
All electrical connections are properly completed and power is available.

PIPING INSTALLATION

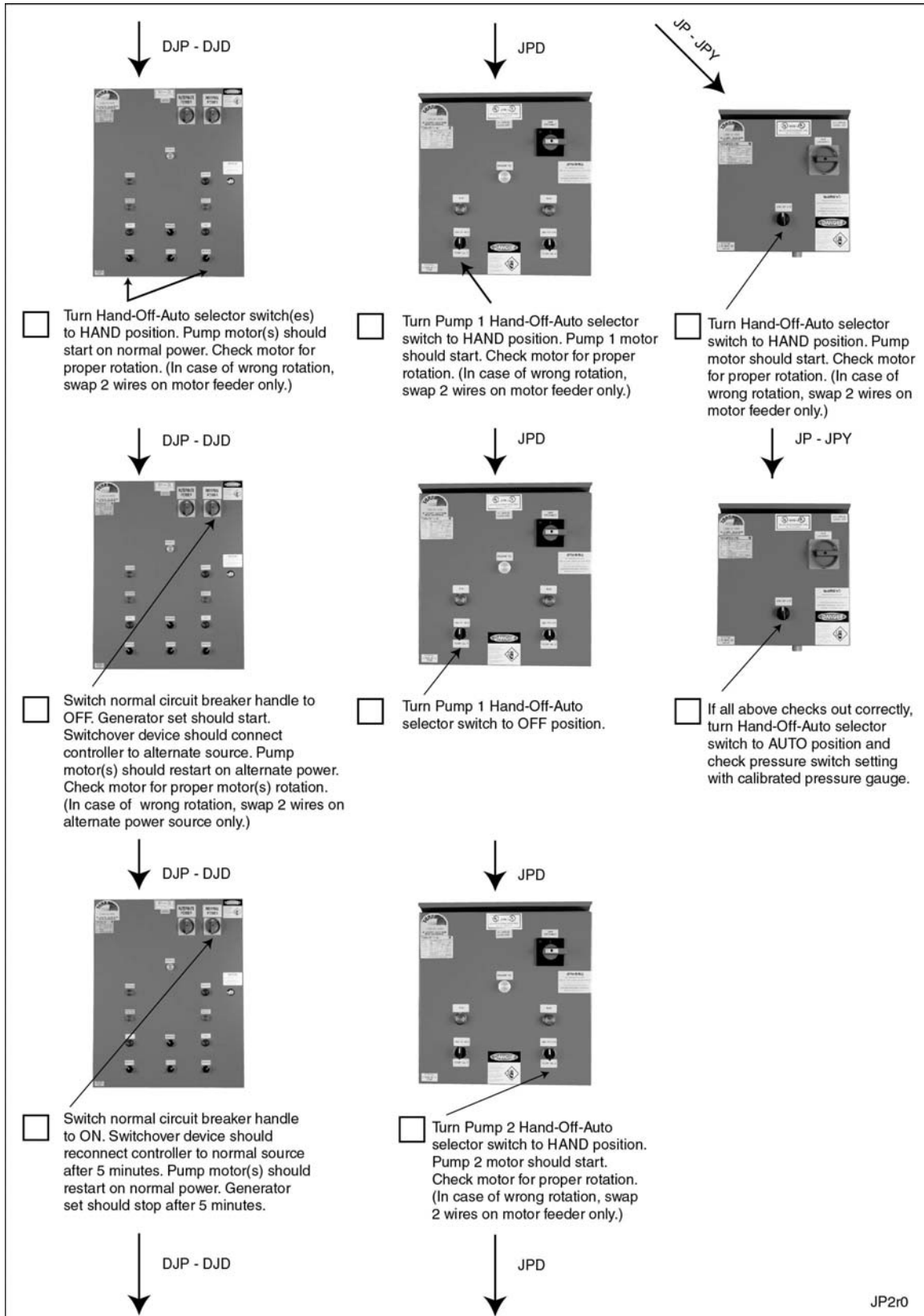
A representative for the sprinkler contractor responsible for the installation shall be available on-site to assist during the verification of the following points and the actual start-up.

All water connections are properly completed; water is available and free of dirt and/or contamination.

ACTUAL START-UP

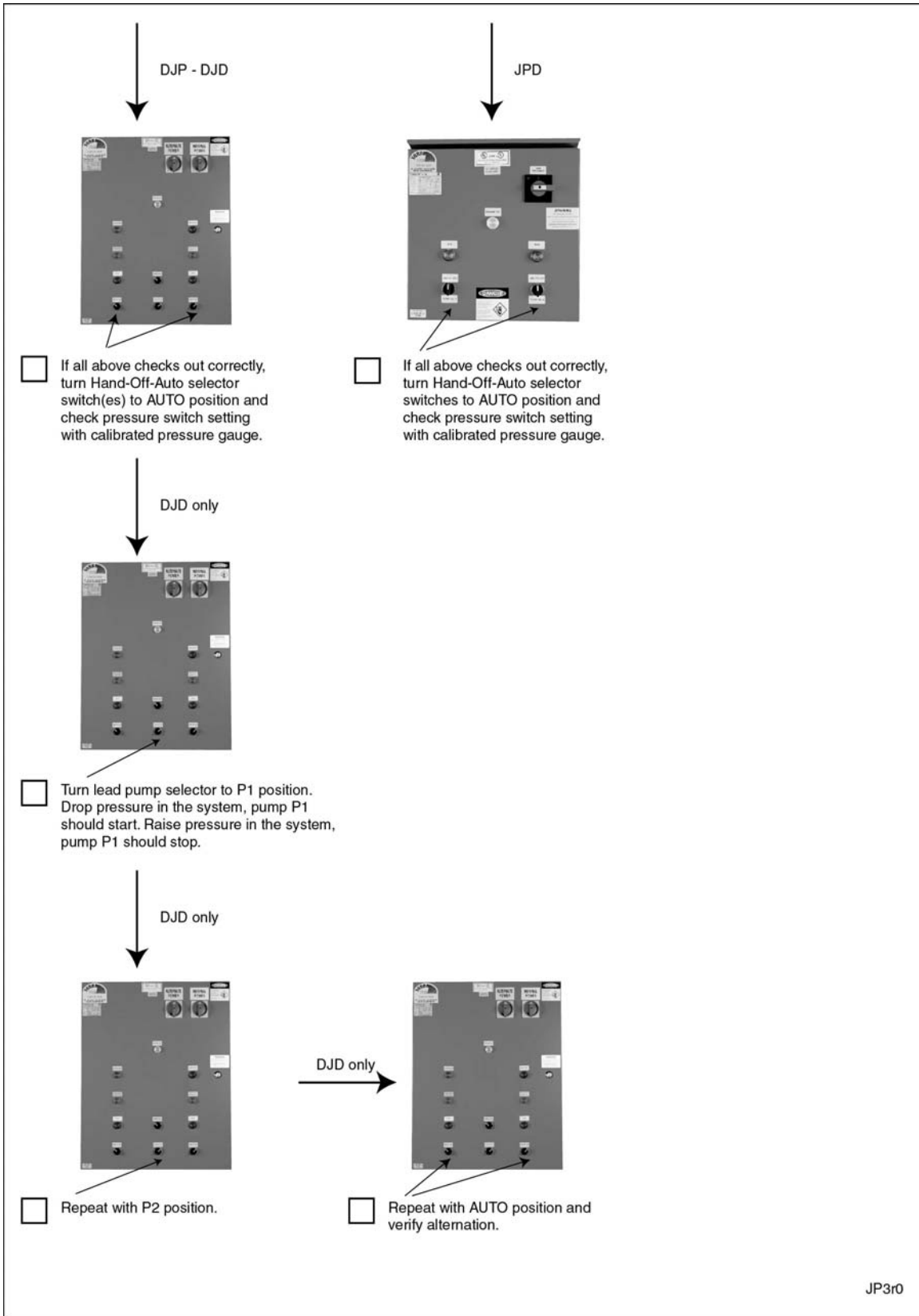


ACTUAL START-UP



JP2r0

ACTUAL START-UP



JP3r0

PREVENTIVE MAINTENANCE AND TEST

Jockey pump controllers are an important part of the fire protection system. They require a minimum preventive maintenance but must be periodically inspected and their operation simulated to assure constant performance.

NOTE : : Qualified and authorized personnel only must do this maintenance.

VISUAL INSPECTION	OK	N/A
Inspect cleanliness of controller.		
Remove any object from the top of controller.		
Dust and clean the controller.		
Inspect controller for any evidence of corrosion outside.		
Inspect controller for any evidence of corrosion inside.		
Check for leaks in pressure switch and piping.		
Inspect door for proper alignment and function of door locks		
Inspect tightness of all connections		
Inspect tightness of all terminal jumpers		
Inspect controller grounding		
Inspect relays, contactors, and timers for any evidence of damage.		
Inspect motor contactor power contacts.		
Inspect tightness of all mounting nuts and screws.		

OPERATIONAL INSPECTION	OK	N/A
Check wrong phase rotation indication.		
Check motor rotation.		
Start from water pressure control.		

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