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**Airmaster**

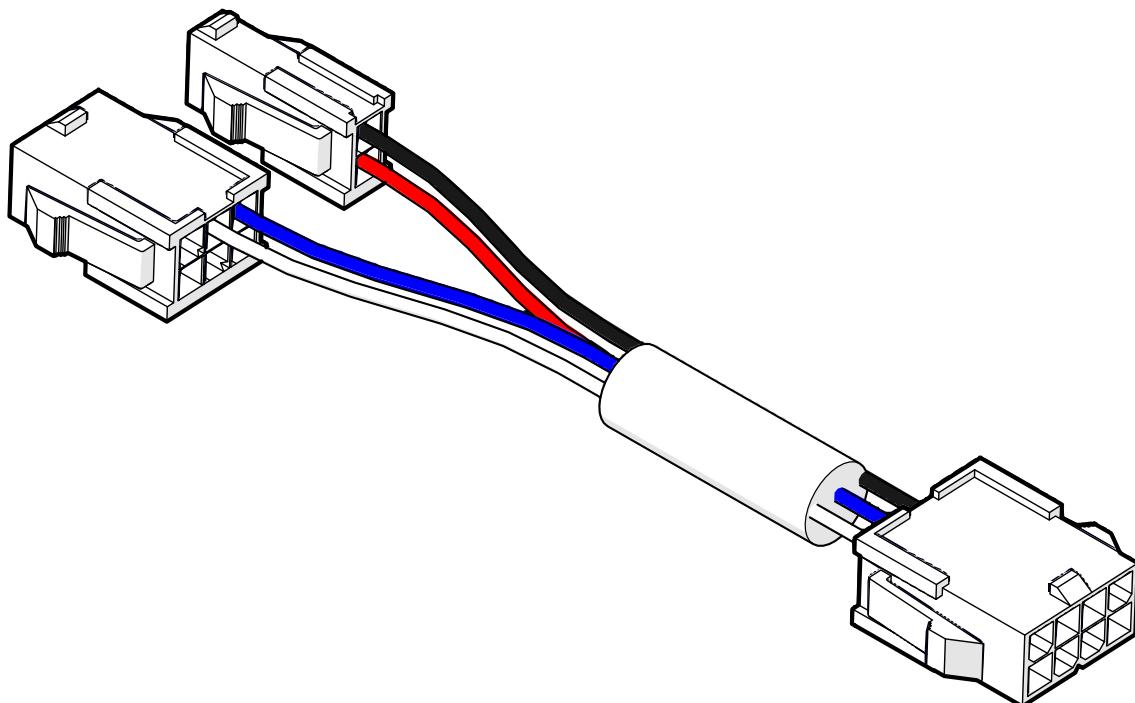
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## ASI-4-9-3

# DESCRIPTION OF AC200 BYPASS LOOM

### GUIDE



### SUBJECT:

Control System Installation

### ASSEMBLY NO:

A0118

### APPLICABILITY:

Excludes DSD propeller models

## 1. TOPIC

### 1.1 Introduction

The AC200 bypass loom (A0118) is supplied with the propeller's control system assembly (AC-xxx). This cable is **not** required for normal operation or installation of the propeller. Store this cable with other tools or spare parts belonging to the propeller.

#### **Caution**

*The bypass loom can only be used for DC propeller systems incorporating the AC200 controller. It should **not** be used for DSD propeller systems incorporating the AC300 controller.*

### 1.2 Function

The bypass loom allows the propeller to be operated as an in-flight variable pitch propeller with the AC200 controller removed from circuit. Operators can adjust propeller blade pitch by operating the manual control switch (as if the controller were set to manual over-ride mode). However the propeller's automatic constant-speed governing functions (including the automatic feather or beta functions) will not occur. The propeller's pitch limit stops remain active.

Operators must carefully monitor engine speed and other instrument conditions while operating the propeller with the bypass loom installed in place of the controller. The propeller will not govern engine speed and as such, is vulnerable to exceeding permissible engine speed limits.

#### **Note**

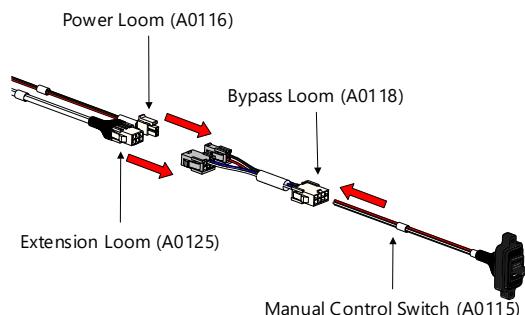
*The AC200 controller may be removed from circuit and the AC200 bypass loom installed in place as a method of checking whether a known fault 'carries over' with the controller (e.g. the main aircraft circuit breaker tripping during operation, or a loss of propeller operation in manual over-ride mode).*

### 1.3 Installation

#### PROCEDURE

##### **Step 1** Install AC200 Bypass Loom

- Disconnect power cable [CN1], extension loom [CN2] and manual control switch [CN3] connectors from rear of AC200 controller.
- Plug these connectors into the AC200 bypass loom.



##### **Step 2** Test Manual Over-Ride Operation

- Test propeller function with the engine off in accordance with procedure **ASI-5-1-1** to verify correct function of the propeller in manual over-ride mode.