



*Waco Regional Airport • P.O. Box 5500 • Waco, Texas 76708*



## **WIRING DIAGRAM MANUAL**

Manual No. 051-50  
Initial Release  
January 2023





HALO 350 WIRING DIAGRAM MANUAL

**RECORD OF REVISIONS**

Rev. No.	Date Inserted	By

Rev. No.	Date Inserted	By

Rev. No.	Date Inserted	By

When a revision to this manual is issued, insert the revised or added pages into the manual. Record the revision number, date inserted, and the initials of the person responsible for the update on this page.



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]



## HALO 350 WIRING DIAGRAM MANUAL

### REVISION LOG

Rev. No.	Rev. Date	Changes	Page(s) Affected



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]



## HALO 350 WIRING DIAGRAM MANUAL

### LIST OF EFFECTIVE PAGES

Page	Rev. No.	Date
Title	-	1/23
Record of Revisions	-	1/23
Revision Log	-	1/23
List of Eff. Pages	-	1/23
1 - 2	-	1/23
27.1 - 27.18	-	1/23
31.1 - 31.10	-	1/23
34.1 - 34.18	-	1/23
End	-	1/23



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]





## HALO 350 WIRING DIAGRAM MANUAL

# INTRODUCTION

## GENERAL

This manual provides wiring diagrams for the equipment and modifications in CenTex Aerospace's (CTA) *Halo 350 Conversion* on Beechcraft Super King Air models B300 and B300C. The Halo 350 Conversion includes the following safety systems.

- Ice Mode Stall Warning System
- Takeoff Trim Warning System
- CenTex Overspeed Warning Switch

Refer to CTA Instructions for Continued Airworthiness Manual no. 051-30 to determine which safety systems are installed on the airplane and for more information about each system. Refer to the following Textron Aviation wiring diagram manuals (WDM) for existing aircraft wiring information.

- Super King Air 350 (Model B300), 350C (Model B300C) WDM, P/N 130-590031-7
- Super King Air 350 (Model B300), 350C (Model B300C) Avionics WDM, P/N 130-590031-197
- Super King Air 350i (B300) WDM, P/N 130-590031-317
- Super King Air B300/B300C Fusion WDM, P/N 434-590169-0011

## AIRPLANE MAINTENANCE

Refer to CTA Manual no. 051-30 for maintenance information related to these safety systems. Refer to the Textron Aviation aircraft maintenance manual (AMM) for maintenance information related to the aircraft. For standard aviation maintenance practices, such as cutting, splicing, and replacing wire, routing and securing lines, inspecting electrical wiring and equipment, etc. use the techniques and practices found in FAA Advisory Circular AC 43.13-1B/2B or later FAA approved revision.

## MANUAL UPDATES

A copy of this manual is provided with the STC upon installation. When changes to this manual are made, CenTex Aerospace will provide updates through CenTex's website or direct email. Contact CenTex Aerospace to make other arrangements. If there is a change in airplane ownership or operator, please notify CenTex Aerospace in order to keep all contact information current.

Changes to the manual will be identified by revision number and date in the Revision Log. CenTex will provide the owner with the revised pages, a Revision Log, and an updated List of Effective Pages. The owner, or responsible party, will add or replace the pages affected by the revision and make an entry in the Record of Revisions in order to document the update.

## ASSISTANCE

For assistance with any issues related to this STC, contact CenTex Aerospace at the following address or telephone number.

**CenTex Aerospace Inc.**  
P.O. Box 5500  
Waco, Texas 76708  
(254) 752-4290  
<https://www.centex.aero/>



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]



## HALO 350 WIRING DIAGRAM MANUAL

# CHAPTER 27 FLIGHT CONTROLS

### CONTENTS

- 27-31-01, FIGURE 01 – ICE MODE STALL WARNING
- 27-31-01, FIGURE 02 – ICE MODE STALL WARNING, FUSION MODELS
- 27-31-03, FIGURE 01 – TAKEOFF TRIM WARNING
- 27-31-03, FIGURE 02 – TAKEOFF TRIM WARNING, FUSION MODELS



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]



**HALO 350 WIRING DIAGRAM MANUAL**

PLACE HOLDER FOR 27-31-01, FIGURE 01



**HALO 350 WIRING DIAGRAM MANUAL**

PLACE HOLDER FOR 27-31-01, FIGURE 01



## HALO 350 WIRING DIAGRAM MANUAL

### 27-31-01, FIGURE 01 - ICE MODE STALL WARNING

NO.	PART NUMBER	NAME (MFG.)	EFF. CODE
1	051-1011-0001-101	Wire Assy., Ice Mode Stall Warning (CTA)	FE
2	--		
3	006-1011-0005-402	Ice Mode Switch Assy. (CTA)	FE
4	051-1011-0001-301	Dimmer Assy. (CTA)	FE
5	C-06106-1	Lift Computer (Safe Flight)	FE
6	MD41-248	Relay (Mid-Continent Instrument)	FE
7	1800 OHM, 1/2 WATT	Resistor	FE
8	1N4001	Diode (Vishay)	FE
9	36152 or 51863	Terminal (TE Connectivity)	FE
10	206152-1	Receptacle (TE Connectivity)	FE
11	205839-3	Plug (TE Connectivity)	FE
12	205089-1	Pin (TE Connectivity)	FE
13	205090-1	Socket (TE Connectivity)	FE
14	1-480424-0	Socket Housing (TE Connectivity)	FE
15	60617-1 or 60617-5	Socket (TE Connectivity)	FE
16	7014509	J1 Connector Kit	FE
17	60618-1 or 60618-5	Pin (TE Connectivity)	FE
18	1-480426-0	Pin Housing (TE Connectivity)	FE
19	AZ850-24	Relay (American Zettler)	FE

**EFFECTIVITY CODE:**

FE: B300, S/N FL-1 THRU FL-953, FL-955 THRU FL-1009, FL-1011 THRU FL-1030  
 B300C, S/N FM-1 THRU FM-65, FN-1

**FIGURE 01 TRIANGLE NOTES:**

- △6. Textron/Beechcraft P/N 101-380005-39 lift computer is an alternate.
- △7. Stall warning signal is thru pin 11 for Textron/Beechcraft P/N 101-380005-35 lift computer and thru pin 15 for P/N 101-380005-39 lift computer.



## HALO 350 WIRING DIAGRAM MANUAL

### FIGURE 01 TRIANGLE NOTES (cont.):

- 8. Applies to B300, S/N FL-1 thru FL-65; B300C, S/N FM-1 thru FM-3.
- 9. Applies to B300, S/N FL-66 thru FL-328, FL-330 thru FL-380 & FL-382; B300C, S/N FM-4 thru FM-11 & FN-1.
- 10. Applies to B300, S/N FL-329 with Textron/Beechcraft Kit 130-3022-0001 installed.
- 11. Applies to B300, S/N FL-381 & FL-383 thru FL-393 without Textron/Beechcraft Kit 130-3022-0001 installed.
- 12. Applies to B300, S/N FL-394 thru FL-602 with Textron/Beechcraft Kit 130-3022-0001 installed, FL-603 thru FL-933, FL-955 thru FL-1009 & FL-1011 thru FL-1030; B300C, S/N FM-12 thru FM-26 with Textron Beechcraft Kit 130-3022-0001 installed & FM-27 thru FM-65.





**HALO 350 WIRING DIAGRAM MANUAL**

PLACE HOLDER FOR 27-31-01, FIGURE 02



**HALO 350 WIRING DIAGRAM MANUAL**

PLACE HOLDER FOR 27-31-01, FIGURE 02



## HALO 350 WIRING DIAGRAM MANUAL

### 27-31-01, FIGURE 02 - ICE MODE STALL WARNING, FUSION MODELS

NO.	PART NUMBER	DESIGNATION	EFF. CODE
1	--		
2	051-1011-0001-201	Wire Assy., Ice Mode Stall Warning (CTA)	FE
3	006-1011-0005-402	Ice Mode Switch Assy. (CTA)	FE
4	051-1011-0001-301	Dimmer Assy. (CTA)	FE
5	C-06106-1	Lift Computer (Safe Flight)	FE
6	MD41-248	Relay (Mid-Continent Instrument)	FE
7	1800 OHM, 1/2 WATT	Resistor	FE
8	1N4001	Diode (Vishay)	FE
9	36152 or 51863	Terminal (TE Connectivity)	FE
10	206152-1	Receptacle (TE Connectivity)	FE
11	205839-3	Plug (TE Connectivity)	FE
12	205089-1	Pin (TE Connectivity)	FE
13	205090-1	Socket (TE Connectivity)	FE
14	1-480424-0	Socket Housing (TE Connectivity)	FE
15	60617-1 or 60617-5	Socket (TE Connectivity)	FE
16	7014509	J1 Connector Kit	FE
17	60618-1 or 60618-5	Pin (TE Connectivity)	FE
18	1-480426-0	Pin Housing (TE Connectivity)	FE
19	AZ850-24	Relay (American Zettler)	FE

**EFFECTIVITY CODE:**

FE: B300, S/N FL-954, FL-1010, FL-1031 & AFTER  
 B300C, S/N FM-66 & AFTER

**FIGURE 02 TRIANGLE NOTES:**

△ 6. Textron/Beechcraft P/N 101-380005-39 lift computer is an alternate.



**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]



**HALO 350 WIRING DIAGRAM MANUAL**

PLACE HOLDER FOR 27-31-03, FIGURE 01



**HALO 350 WIRING DIAGRAM MANUAL**

PLACE HOLDER FOR 27-31-03, FIGURE 01



## HALO 350 WIRING DIAGRAM MANUAL

### 27-31-03, FIGURE 01 - TAKEOFF TRIM WARNING

NO.	PART NUMBER	DESIGNATION	EFF. CODE
1	006-1011-0003-101	Wire Assy., Takeoff Trim Warning (CTA)	FE
2	M83536/10-026M	Relay	FE
3	2-520182-2	Receptacle (TE Connectivity)	FE
4	36154	Terminal (TE Connectivity)	FE
5	36152 or 51863	Terminal (TE Connectivity)	FE
6	D-436-36 or M81824/1-1	Splice, In-Line, Sealing (TE Connectivity)	FE
7	SC628, SC628R, SC628NR or SC628ANR	Warning Horn (Mallory-Sonalet)	FE
8	V7-1B17D8-207	Switch (Honeywell/Micro-Switch)	FE

#### EFFECTIVITY CODE:

FE: B300, S/N FL-1 THRU FL-953, FL-955 THRU FL-1009, FL-1011 THRU FL-1030  
B300C, S/N FM-1 THRU FM-65, FN-1



**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]





## HALO 350 WIRING DIAGRAM MANUAL

PLACE HOLDER FOR 27-31-03, FIGURE 02



## HALO 350 WIRING DIAGRAM MANUAL

PLACE HOLDER FOR 27-31-03, FIGURE 02



## HALO 350 WIRING DIAGRAM MANUAL

### 27-31-03, FIGURE 02 - TAKEOFF TRIM WARNING, FUSION MODELS

NO.	PART NUMBER	DESIGNATION	EFF. CODE
1	006-1011-0003-101	Wire Assy., Takeoff Trim Warning (CTA)	FE
2	M83536/10-026M	Relay	FE
3	2-520182-2	Receptacle (TE Connectivity)	FE
4	36154	Terminal (TE Connectivity)	FE
5	36152 or 51863	Terminal (TE Connectivity)	FE
6	D-436-36 or M81824/1-1	Splice, In-Line, Sealing (TE Connectivity)	FE
7	SC628, SC628R, SC628NR or SC628ANR	Warning Horn (Mallory-Sonalet)	FE
8	V7-1B17D8-207	Switch (Honeywell/Micro-Switch)	FE

**EFFECTIVITY CODE:**

FE: B300, S/N FL-954, FL-1010, FL-1031 & AFTER

B300C, S/N FM-66 & AFTER



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]



**HALO 350 WIRING DIAGRAM MANUAL**

**CHAPTER 31**  
**INDICATING/RECORDING SYSTEMS**

**CONTENTS**

31-60-01, FIGURE 01 – PRO-LINE 21 AFD-3010 STRAPPING WITHOUT STRAPPING PLUGS

31-60-01, FIGURE 02 – PRO-LINE 21 AFD-3010 STRAPPING WITH STRAPPING PLUGS

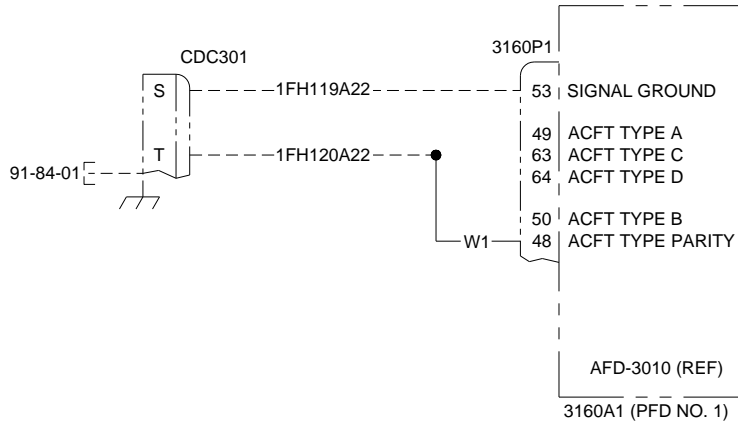


**HALO 350 WIRING DIAGRAM MANUAL**

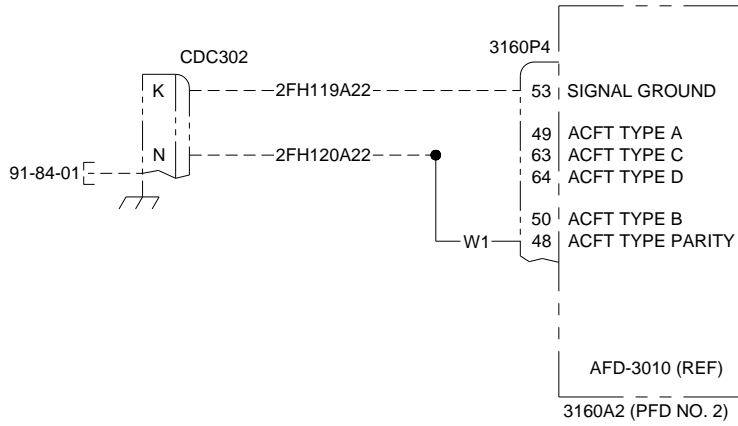
[INTENTIONAL BLANK PAGE]

## HALO 350 WIRING DIAGRAM MANUAL

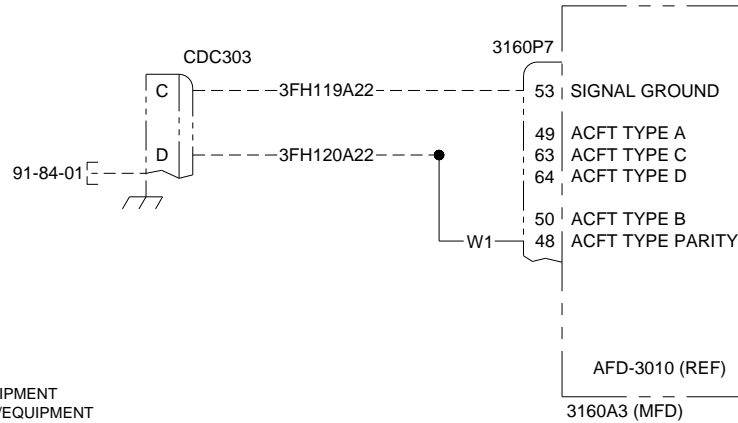
### PFD No. 1



### PFD No. 2



### MFD



**LEGEND:**

- NEW WIRING/EQUIPMENT
- - - - - EXISTING WIRING/EQUIPMENT
- (REF. TEXTRON WDM CH. 31-60-01/-03/-04)

**31-60-01, FIGURE 01 - PRO-LINE 21 AFD-3010 STRAPPING WITHOUT STRAPPING PLUGS**



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]





**HALO 350 WIRING DIAGRAM MANUAL**

**31-60-01, FIGURE 01 - PRO-LINE 21 AFD-3010 STRAPPING WITHOUT STRAPPING PLUGS**

NO.	PART NUMBER	DESIGNATION	EFF. CODE
-	M22759/16-22	Wire No. W1	FE
-	M39029/57-354	Socket Contact (at connector end)	FE
-	D-436-36 or M81824/1-1	Splice (TE Connectivity) (at wire end)	FE

**EFFECTIVITY CODE:**

FE: B300, S/N FL-329, FL-381, FL-383 THRU FL-583

B300C, S/N FM-12 THRU FM-24

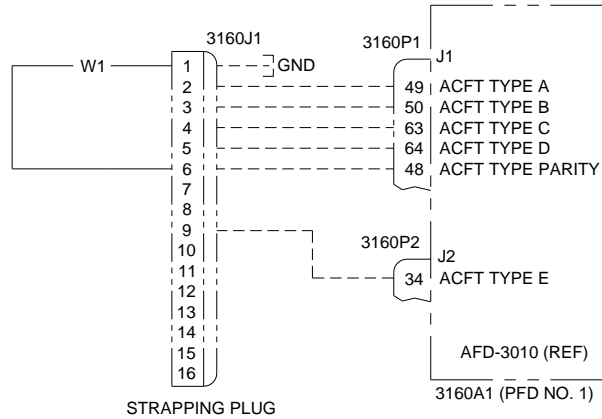


**HALO 350 WIRING DIAGRAM MANUAL**

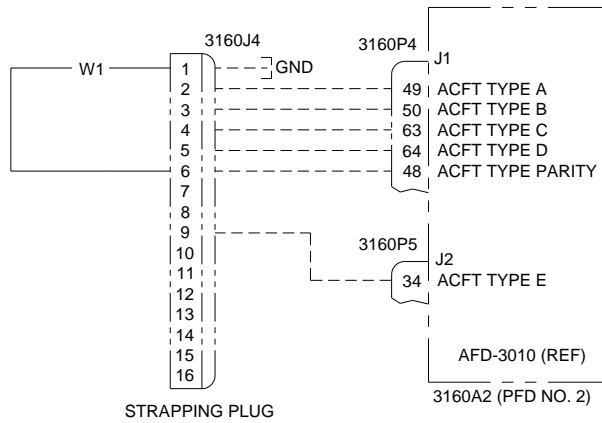
[INTENTIONAL BLANK PAGE]

## HALO 350 WIRING DIAGRAM MANUAL

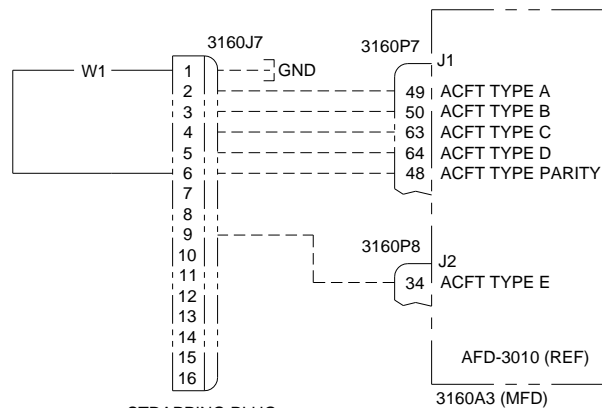
### PFD No. 1



### PFD No. 2



### MFD



**LEGEND:**

- NEW WIRING/EQUIPMENT
- - - EXISTING WIRING/EQUIPMENT  
(REF. TEXTRON WDM CH. 31-60-01/-03/-04)

**31-60-01, FIGURE 02 - PRO-LINE 21 AFD-3010 STRAPPING WITH STRAPPING PLUGS**



**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]



## HALO 350 WIRING DIAGRAM MANUAL

### 31-60-01, FIGURE 02 - PRO-LINE 21 AFD-3010 STRAPPING WITH STRAPPING PLUGS

NO.	PART NUMBER	DESIGNATION	EFF. CODE
-	M22759/16-22	Wire No. W1	FE
-	LMD-4022-36LJ	Pin Contact (Amphenol Aerospace)	FE
-	90-341792-0047	Harness Assembly (Textron) (alternate part)	FE

#### EFFECTIVITY CODE:

FE: B300, S/N FL-584 THRU FL-953, FL-955 THRU FL-1009, FL-1011 THRU FL-1030\*

B300C, S/N FM-25 THRU FM-65\*

\*ALSO APPLIES TO EARLIER S/N IF EQUIPPED WITH STRAPPING PLUGS



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]



## HALO 350 WIRING DIAGRAM MANUAL

# CHAPTER 34 NAVIGATION

### CONTENTS

34-10-01, FIGURE 01 – PRO-LINE 21 ADC-3000 STRAPPING WITHOUT STRAPPING PLUGS

34-10-01, FIGURE 02 – PRO-LINE 21 ADC-3000 STRAPPING WITH STRAPPING PLUGS

34-10-01, FIGURE 03 – PRO-LINE FUSION ADC-3000 STRAPPING

34-11-01, FIGURE 01 – OVERSPEED WARNING



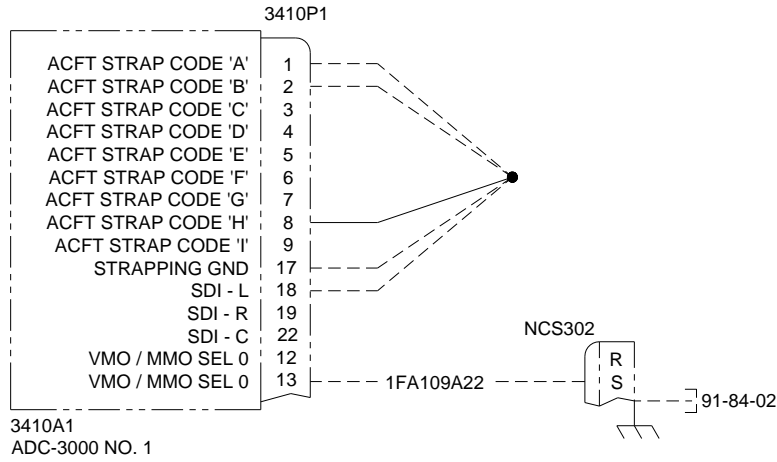
## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]

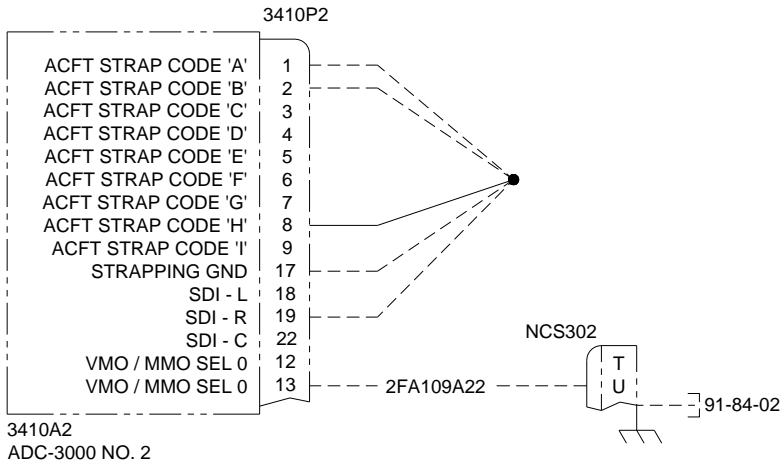


**HALO 350 WIRING DIAGRAM MANUAL**

**ADC-3000 No. 1**



**ADC-3000 No. 2**



**LEGEND:**

- NEW WIRING/EQUIPMENT
- - - - - EXISTING WIRING/EQUIPMENT  
(REF. TEXTRON WDM CH. 34-10-01/-02)

**34-10-01, FIGURE 01 - PRO-LINE 21 ADC-3000 STRAPPING WITHOUT STRAPPING PLUGS**



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]



## HALO 350 WIRING DIAGRAM MANUAL

### 34-10-01, FIGURE 01 - PRO-LINE 21 ADC-3000 STRAPPING WITHOUT STRAPPING PLUGS

NO.	PART NUMBER	DESIGNATION	EFF. CODE
-	M22759/16-22	Jumper Wire	FE
-	M39029/57-354	Socket Contact (at connector end)	FE
-	D-436-42 or M81824/1-2	Splice (TE Connectivity) (at wire end)	FE

EFFECTIVITY CODE:

FE: B300, S/N FL-329, FL-381, FL-383 THRU FL-583

B300C, S/N FM-12 THRU FM-24

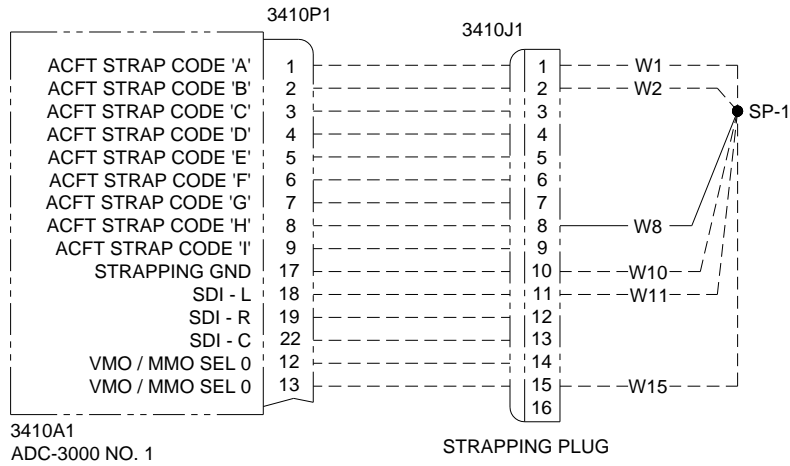


## HALO 350 WIRING DIAGRAM MANUAL

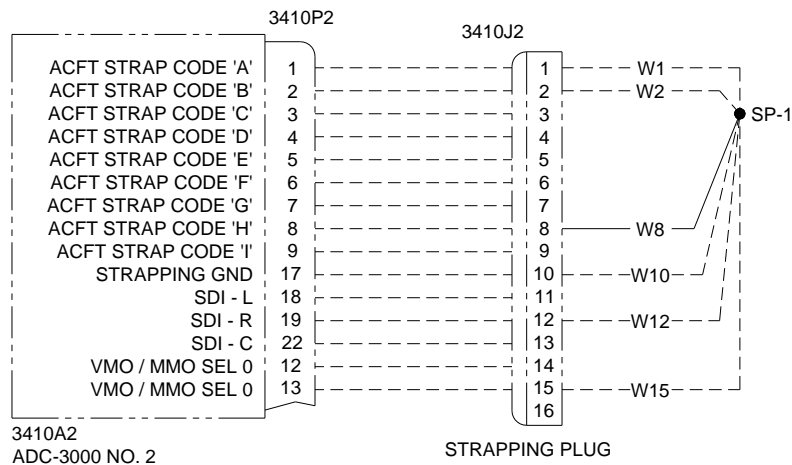
[INTENTIONAL BLANK PAGE]

## HALO 350 WIRING DIAGRAM MANUAL

### ADC-3000 No. 1



### ADC-3000 No. 2



**LEGEND:**

NEW WIRING/EQUIPMENT  
 EXISTING WIRING/EQUIPMENT  
 (REF. TEXTRON WDM CH. 34-10-01/-02)

**34-10-01, FIGURE 02 - PRO-LINE 21 ADC-3000 STRAPPING WITH STRAPPING PLUGS**



**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]



## HALO 350 WIRING DIAGRAM MANUAL

### 34-10-01, FIGURE 02 - PRO-LINE 21 ADC-3000 STRAPPING WITH STRAPPING PLUGS

NO.	PART NUMBER	DESIGNATION	EFF. CODE
-	M22759/16-22	Wire No. W8	FE
-	M39029/57-354	Socket Contact (at connector end)	FE
-	D-436-42 or M81824/1-2	Splice (TE Connectivity) (at wire end)	FE
-	90-341792-0043	Harness Assembly (ADC-3000 No. 1) (Textron) (alternate part)	FE
-	90-341792-0045	Harness Assembly (ADC 3000 No. 2) (Textron) (alternate part)	FE

#### EFFECTIVITY CODE:

FE: B300, S/N FL-584 THRU FL-953, FL-955 THRU FL-1009, FL-1011 THRU FL-1030\*

B300C, S/N FM-25 THRU FM-65\*

\*ALSO APPLIES TO EARLIER S/N IF EQUIPPED WITH STRAPPING PLUGS



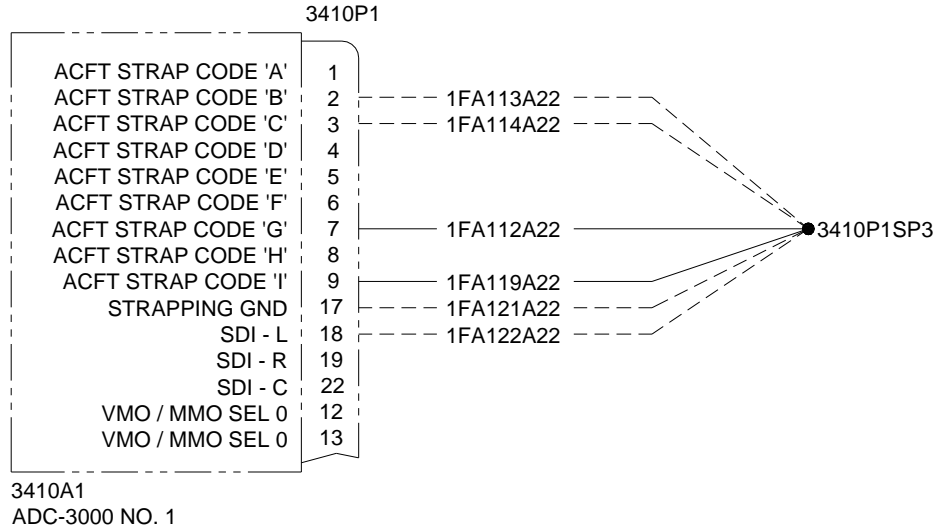
**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]

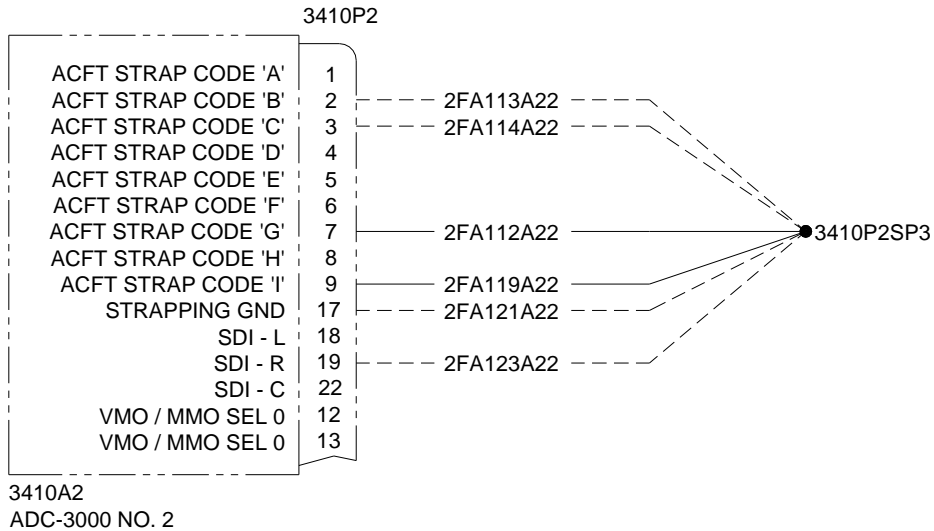


## HALO 350 WIRING DIAGRAM MANUAL

### ADC-3000 No. 1



### ADC-3000 No. 2



**LEGEND:**

———— NEW WIRING/EQUIPMENT  
 ----- EXISTING WIRING/EQUIPMENT  
 (REF. TEXTRON WDM CH. 34-10-01/-02)

**34-10-01, FIGURE 03 - PRO-LINE FUSION ADC-3000 STRAPPING**



**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]



**HALO 350 WIRING DIAGRAM MANUAL**

**34-10-01, FIGURE 03 - PRO-LINE FUSION ADC-3000 STRAPPING**

NO.	PART NUMBER	DESIGNATION	EFF. CODE
-	M22759/16-22	Jumper Wire	FE
-	M39029/57-354	Socket Contact (at connector end)	FE
-	D-436-61	Splice (TE Connectivity) (at wire end)	FE

EFFECTIVITY CODE:

FE: B300, S/N FL-954, FL-1010, FL-1031 AND AFTER

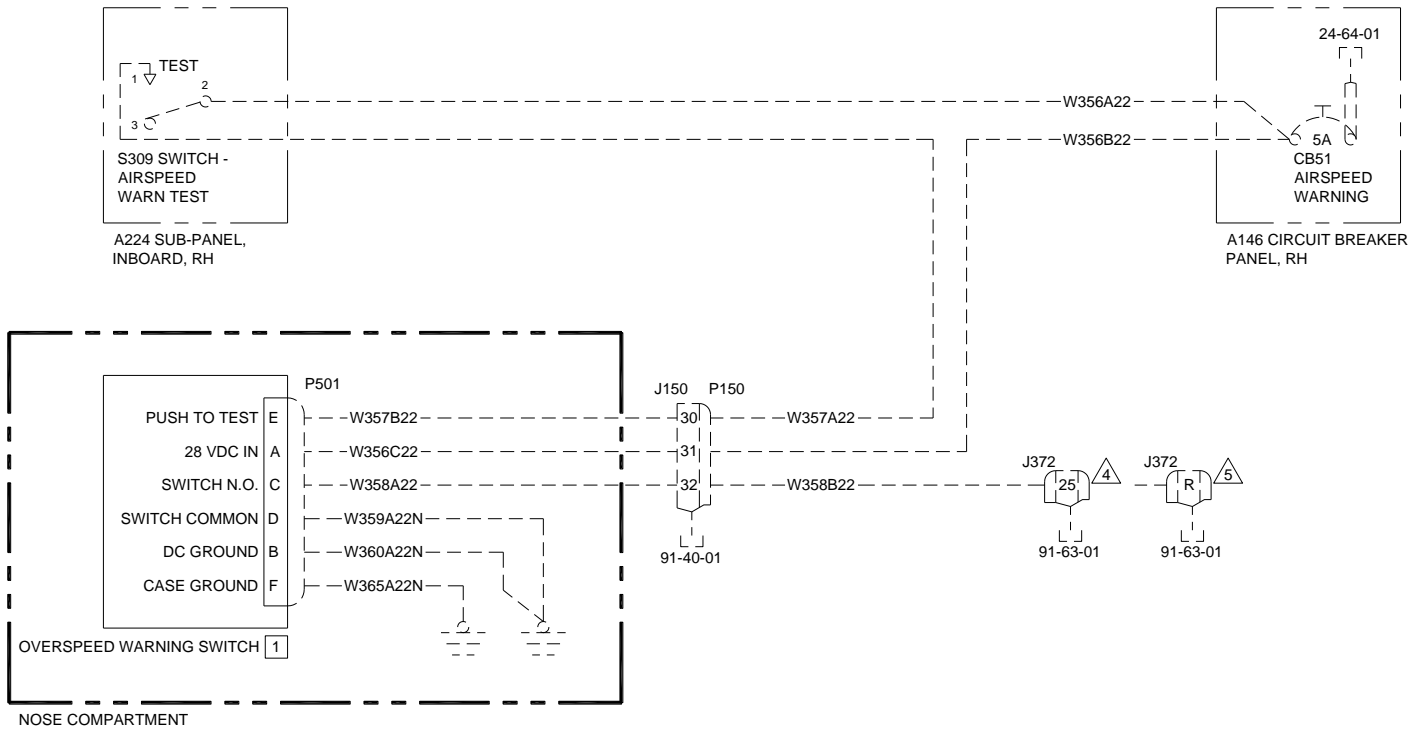
B300C, S/N FM-66 AND AFTER



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]

## HALO 350 WIRING DIAGRAM MANUAL



**LEGEND:**

- NEW WIRING/EQUIPMENT
- - - - - EXISTING WIRING/EQUIPMENT  
(REF. TEXTRON WDM CH. 34-11-01)

**34-11-01, FIGURE 01 - OVERSPEED WARNING**



**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]



## HALO 350 WIRING DIAGRAM MANUAL

### 34-11-01, FIGURE 01 - OVERSPEED WARNING

NO.	PART NUMBER	DESIGNATION	EFF. CODE
1	006-1002-0005-1	Overspeed Warning Switch (CTA)	FE

#### EFFECTIVITY CODE:

FE: B300, S/N FL-1 THRU FL-92  
B300C, S/N FM-1 THRU FM-8

#### FIGURE 01 TRIANGLE NOTES:

- 4. Applies to B300, S/N FL-1 thru FL-65; B300C, FM-1 thru FM-3.
- 5. Applies to B300, S/N FL-66 thru FL-92; B300C, FM-4 thru FM-8.



## HALO 350 WIRING DIAGRAM MANUAL

[INTENTIONAL BLANK PAGE]





**HALO 350 WIRING DIAGRAM MANUAL**

*END OF MANUAL*



**HALO 350 WIRING DIAGRAM MANUAL**

**PLACE HOLDER PAGE ONLY**

**\*\* DO NOT PRINT \*\***

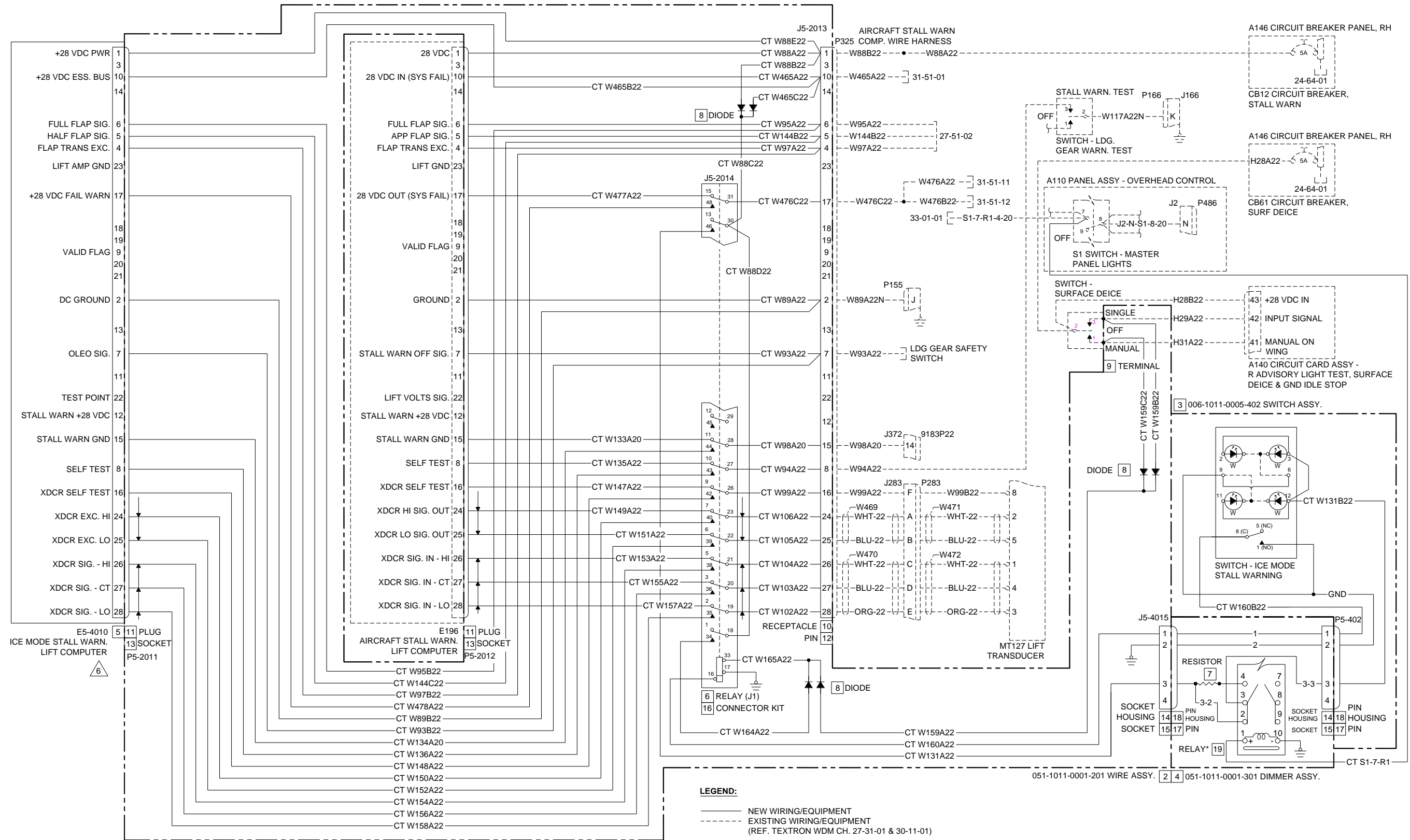




**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]

**HALO 350 WIRING DIAGRAM MANUAL**



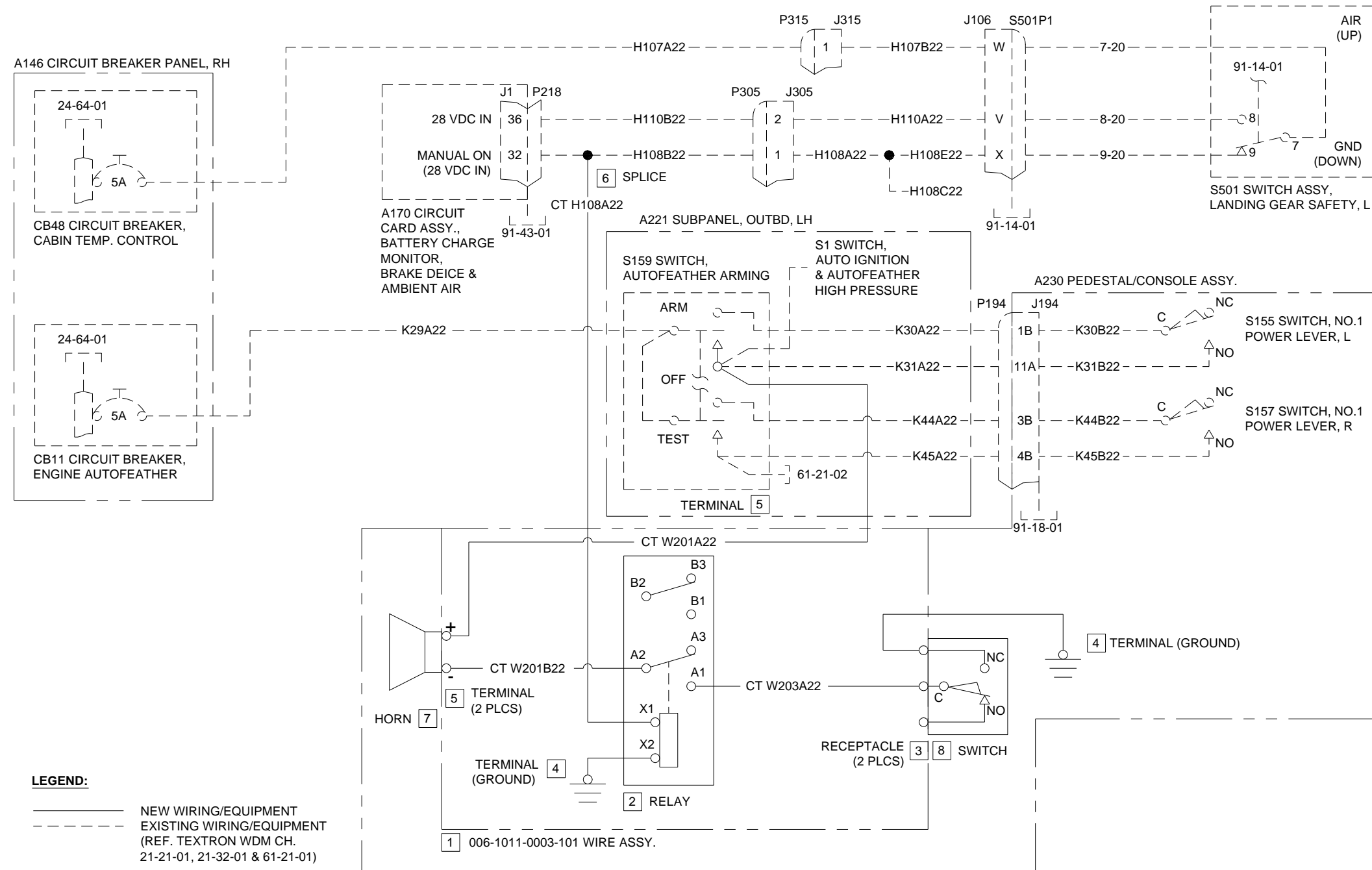
**27-31-01, FIGURE 02 - ICE MODE STALL WARNING, FUSION MODELS**



**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]

**HALO 350 WIRING DIAGRAM MANUAL**



**27-31-03, FIGURE 01 - TAKEOFF TRIM WARNING**

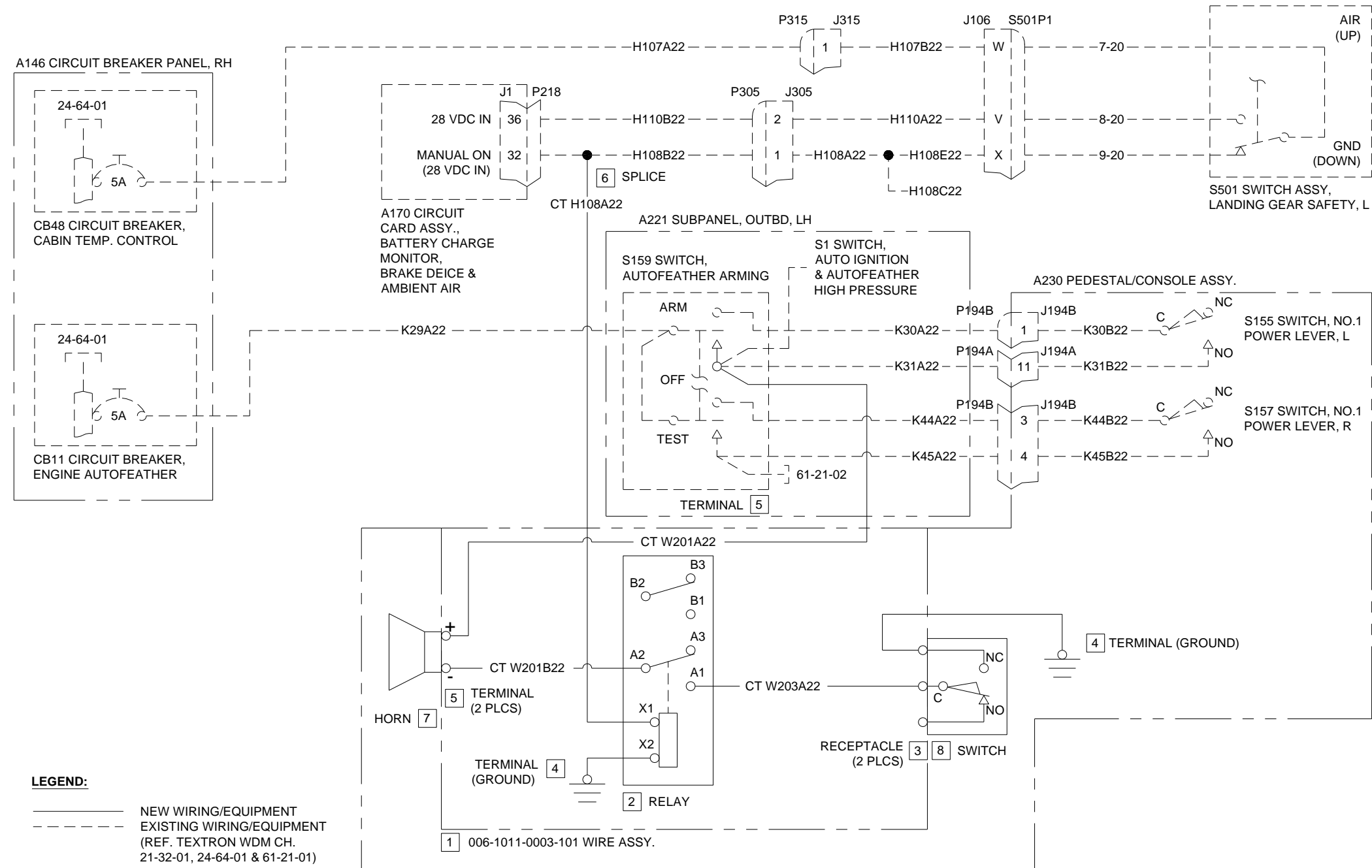


**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]



**HALO 350 WIRING DIAGRAM MANUAL**



**27-31-03, FIGURE 02 - TAKEOFF TRIM WARNING, FUSION MODELS**



**HALO 350 WIRING DIAGRAM MANUAL**

[INTENTIONAL BLANK PAGE]