

NUMBER: SB 500-32-011, Rev B
MODEL: ECLIPSE EA500
SUBJECT: Wheel Speed Transducer (WST) Connector Inspection

Mandatory

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1. PLANNING INFORMATION

A. Effectivity

Aircraft Serial Numbers: 000001 to 000262 and 000266 to 000267, when modified by MB 500-32-002 prior to March 12, 2015.

B. Reason

This Service Bulletin inspects the Wheel Speed Transducer (WST) connector pins.

Revision B updates [Figure 2](#) to reflect wire crimping specs.

C. Description

This Service Bulletin provides instructions on inspecting the Wheel Speed Transducer (WST) connector pins and repairs them if needed.

D. Relevant Publications

06-117751 – Eclipse EA500 AMM, current revision

06-124051 – EA500 AMM, Supplement (ABS)

E. Compliance

Eclipse Aerospace Inc. considers this to be a mandatory inspection that should be accomplished at the next 300 Hour/24 month Inspection.

For aircraft Serial Numbers 000033 and 000233 only: The actions described in this Service Bulletin were previously complied with by Eclipse Aerospace. No additional work is required.

F. Approval

This Service Bulletin contains no modification information that revises the approved configuration and therefore does not require governmental or other regulatory agency approval.

G. Labor Requirements

The following information is for planning purposes only.

(1) Estimated labor hours to perform:

Suggested number of personnel: 1

Inspection: 1.0 Hour

Part Replacement, if needed: 2.0 hours

Total labor hours: 3.0 Hours

The above is an estimate based on properly equipped and experienced personnel complying with this Service Bulletin. Actual labor hours may vary depending on workforce experience, concurrent maintenance, discovery of other discrepancies, etc.

(2) Qualification of personnel:

- A person properly authorized under 14 CFR 43 to perform aircraft maintenance.

H. Weight and Balance Change
N/A

I. Electrical Load Data Change
N/A

J. Software Accomplishment Summary
N/A

K. References

06-117751 – Eclipse EA500 AMM, current revision

06-124051 – EA500 AMM, Supplement (ABS)

Document: IPC/WHMA-A-620, Requirements and Acceptance for Cable and Wire Harness Assemblies,
(Document location: <http://www.ipc.org>)

L. Publications Affected

None

M. Export Control

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. These commodities, technology or software are intended for use only in the End User’s country. An export license from the U.S. Department of Commerce may be required before these products can be re-exported, transferred, transshipped on a non-continuous voyage, or otherwise disposed of in any other country, either in their original form or after being incorporated into an end item. Diversion of this end-item or its use contrary to any applicable U.S. government license or to U.S. law is prohibited.

2. MATERIAL INFORMATION

A. Materials

Part Number	Description	Qty	Unit of Issue
Q300-059 ^[1]	Field Connector Inspection	1	EA.
Q300-060 ^[1]	Field Repair Instructions	1	EA.

[1] Document is provided with this service bulletin.

B. Consumables

Per Q300-059 and Q300-060.

C. Tooling

Per Q300-059 and Q300-060.

D. Interchangeability/Intermixability of Parts

N/A

E. Part Re-identification

N/A

F. Cost

Contact Eclipse Aerospace Customer Care for cost information and availability.

3. ACCOMPLISHMENT INSTRUCTIONS

A. Procedure

- (1) Make aircraft safe for maintenance. Refer to AMM 20-00-01- MAKE SAFE FOR MAINTENANCE.
- (2) Perform inspection of 32A33P01 and 32A34P01 WST connector pins per Q300-059.
- (3) If required, perform repair of the WST connector pins per Q300-060,

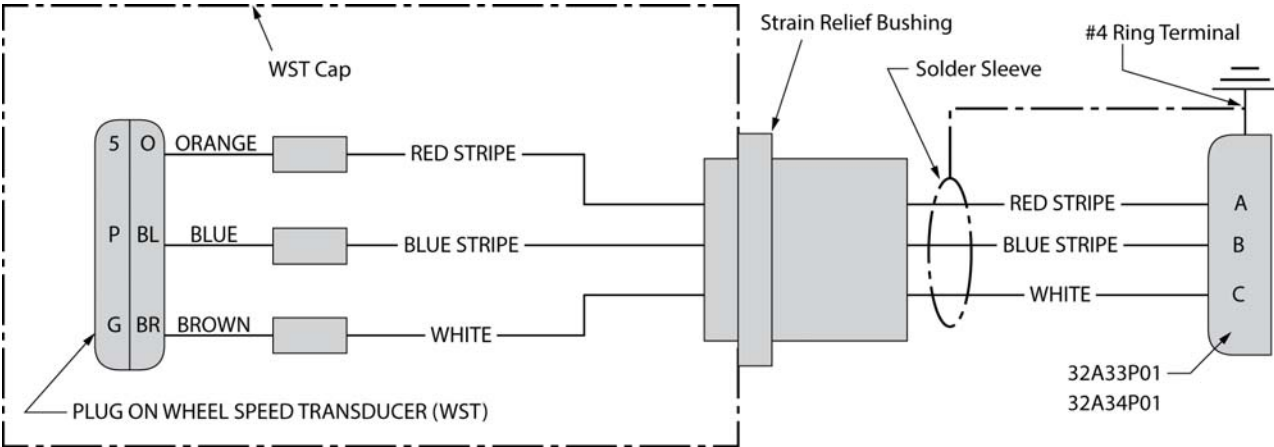


Figure 1. WST Connector Pinout

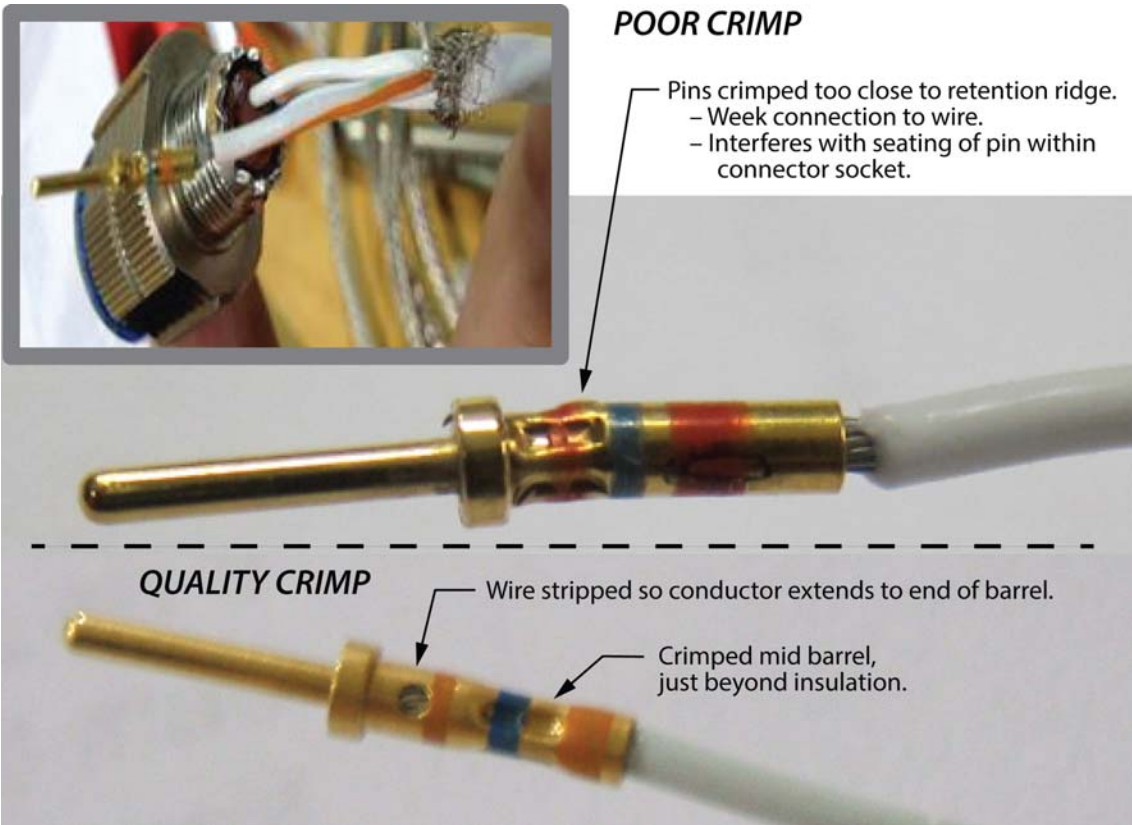


Figure 2. WST Crimp Examples

B. Close Up

- (4) If all other maintenance is complete, return aircraft to service. Refer to AMM 20-00-02-051-801 RETURN TO SERVICE (AFTER MAINTENANCE).

C. Limitations and Procedures

N/A

D. Parts Disposition

N/A

4. PART MARKING

None.

5. RECORD OF COMPLIANCE

Upon completion of this Service Bulletin, make an appropriate maintenance-record entry specifying the Service Bulletin number.

6. NOTIFYING ECLIPSE AEROSPACE

On completing this service bulletin, the operator/maintainer shall complete the attached Compliance Record and send it to Eclipse Aerospace via regular mail, fax, or e-mail.

Mailing Address	Eclipse Aerospace Incorporated ATTN: Service Engineering 2503 Clark Carr Loop SE Albuquerque, NM 87106
Fax	1-505-241-8802
E-mail	sbcompliance@eclipse.aero

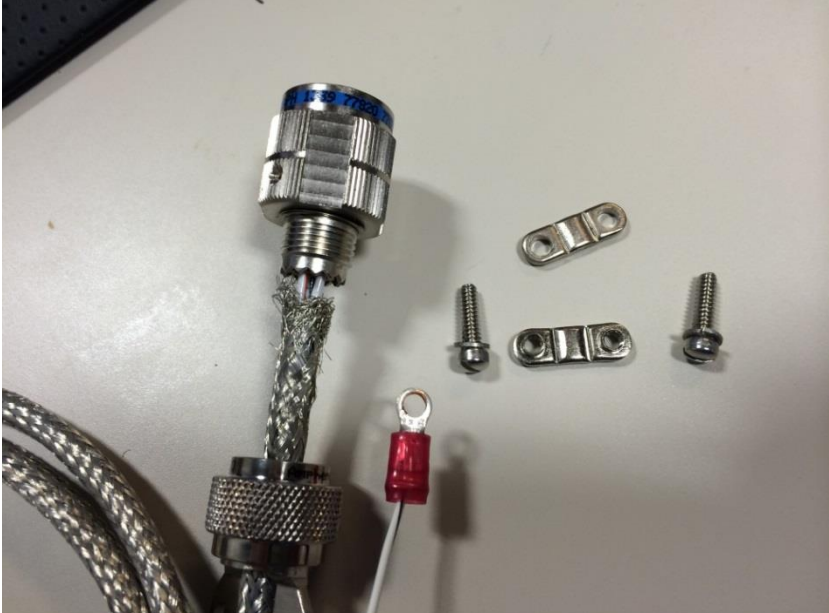
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Field Connector Inspection

Work Instructions for D202106


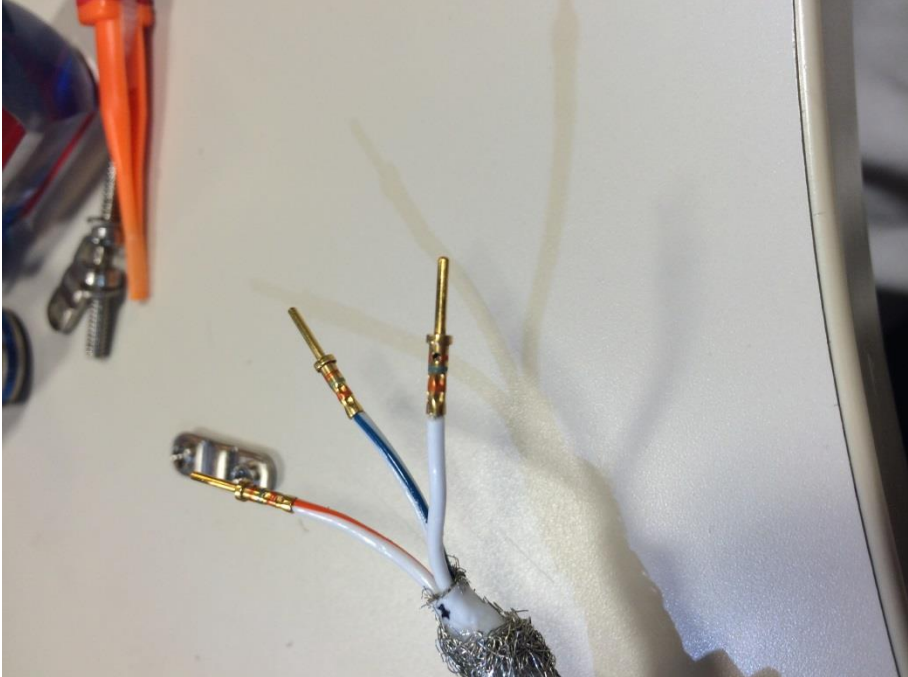
Work Order No.: _____ Finished S/N: _____

Tools List				
Item No.	Description	MFG. Part No.	QTY	Suggested MFG.
1	Installation/Removal Tool	M81969/14-10 or ZZ001208	1	QPL
Document List				
Item No.	Description		Revision	Qty.
1	Q300-060		latest	1
2	D202106		B	1
3	WHMA-A-620		any	1
Material List				
Item No.	Description		Part No.	Qty.
1	Contact Pins, Connector, Size 20		M39029/58-363	3

Work Instructions			
Step No.	Directions	Tech	QA
1	Gain access to connector at the end of the Wheel Speed Transducer (D201106) wire harness.		N/A
2	<p>Disconnect connector. Remove screws from Circular Strain Relief (M85049-38S9N), Unscrew from mating connector (D38999-26FA98PN), and slide down Braided Shielding (100-001A171) to expose individual conductors.</p> 		N/A

Field Connector Inspection

Work Instructions for D202106 REV. B

3	<p>Using Installation/Removal Tool, remove Contact Pins (M39029/58-363) from Connector (D38999-26FA98PN)</p> 		N/A
4	<p>Inspect Crimp on Contact Pins (M39029/58-363) to requirements of IPC-WHMA-A-620 Class 2, specifically looking at location of crimp relative to Contact Pin.</p> 		

Field Connector Inspection
Work Instructions for D202106

Work Order No.: _____ Finished S/N: _____

5	If crimp is deemed acceptable, note below, re-install pins using Installation/Removal Tool per wiring diagram on drawing D202106 Rev. B, re-assemble Circular Strain Relief (M85049-38S9N), attach to Connector (D38999-26FA98PN) and re-connect connector. If deemed unacceptable, note below and execute Q300-060 for Field Repair Instructions.		
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CRIMP DEEMED

Acceptable: _____

Unacceptable: _____

COMPLETED:

Signature: _____

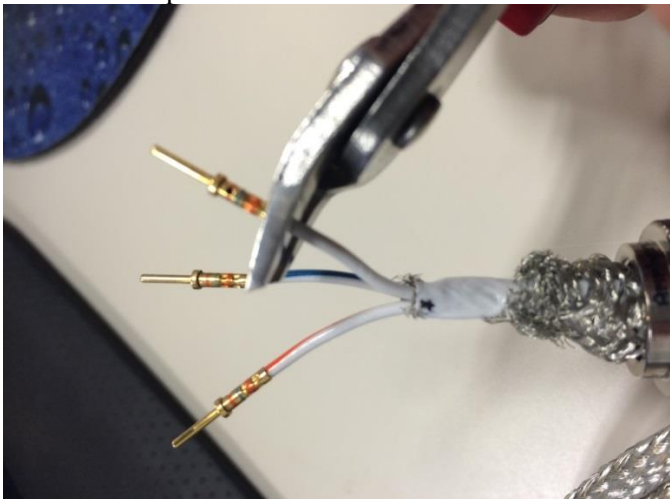
Date Completed: _____

Field Repair Instructions
Work Instructions for D202106

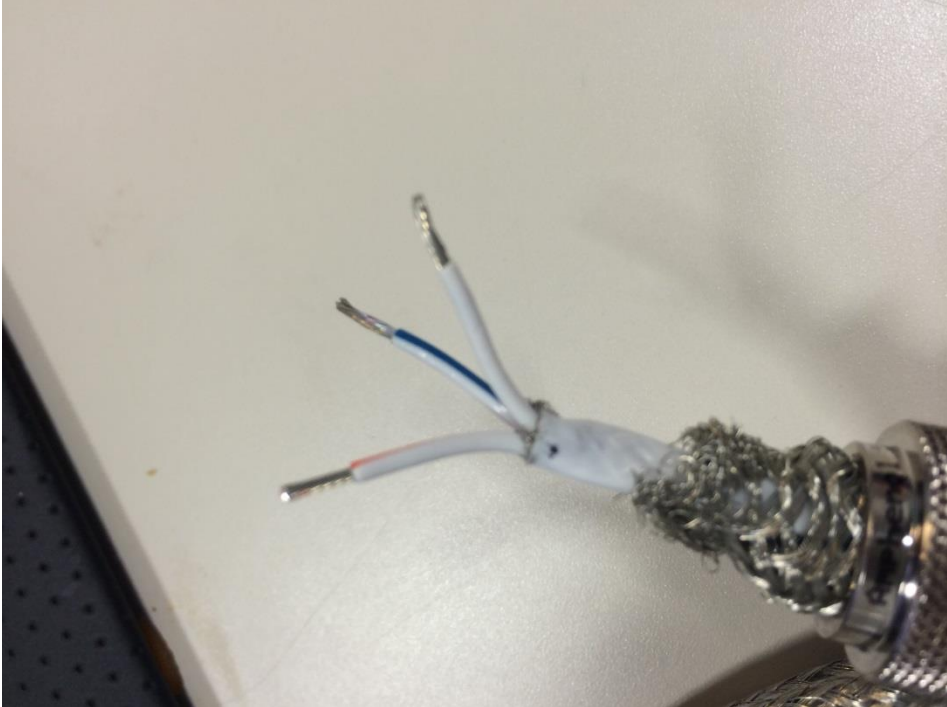
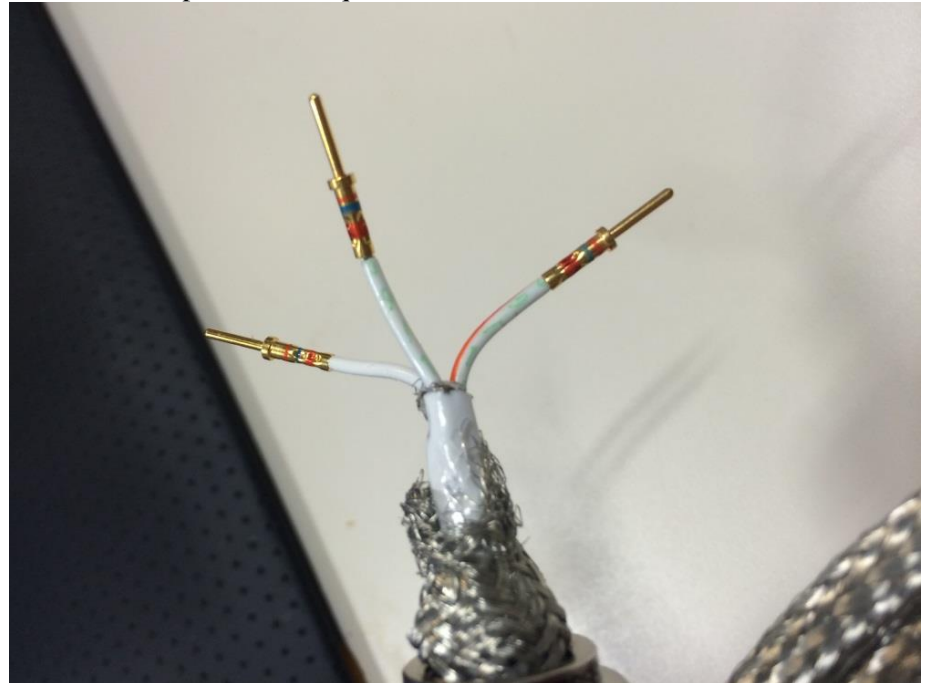
Work Order No.: _____ Finished S/N: _____

Tools List				
Item No.	Description	MFG. Part No.	QTY	Suggested MFG.
1	Crimp Tool	M22520/1-01 or M22520/7-01	1	QPL
2	Turret	M22520/1-04 or M22520/7-08	1	QPL
3	Installation/Removal Tool	M81969/14-10 or ZZ001208	1	QPL
Document List				
Item No.	Description		Revision	Qty.
1	Q300-059		latest	1
2	D202106		B	1
3	WHMA-A-620		any	1
Material List				
Item No.	Description		Part No.	Qty.
1	Contact Pins, Connector, Size 20		M39029/58-363	3

Instruction to be used in conjunction with Q300-059, Field Connector Inspection Work Instructions for D202106.

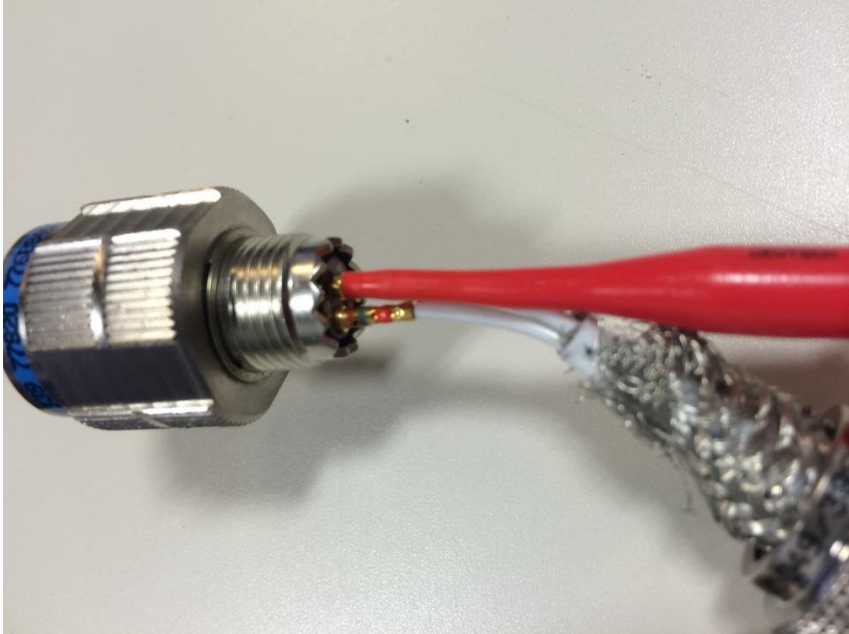

Work Instructions			
Step No.	Directions	Tech	QA
1	<p>Cut existing Contact Pins (M39029/58-363) off of conductors as near the Contact Pin as possible.</p> 		N/A

Field Repair Instructions
Work Instructions for D202106

2	<p>Strip the individual conductors as required by IPC WHMA-A-620</p> 		N/A
3	<p>Crimp new Contact Pins (M39029/58-363) onto conductors using Crimp Tool and Turret. Inspect to the requirements of IPC WHMA-A-620.</p> 		

Field Repair Instructions
Work Instructions for D202106

Work Order No.: _____ Finished S/N: _____

<p>4</p>	<p>Insert Contact Pins (M39029/58-363) into Connector (D38999-26FA98PN) according to wiring diagram on drawing D202106 Rev. B. using Installation/Removal Tool. (Note: Installing all 3 pins loosely in connector before using installation tool will aid in this process)</p> 		
<p>5</p>	<p>Install Circular Strain Relief (M85049-38S9N) on connector (D38999-26FA98PN) and reattach strain relief, attaching solder sleeve terminal to one side, using screws. Return to Q300-059 to complete.</p> 		



Field Repair Instructions
Work Instructions for D202106

COMPLETED:

Signature: _____

Date Completed: _____