

# AGUSTA

UNA SOCIETA' DI AGUSTAWESTLAND



## LOG CARD

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA-GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

### Sezione 1

Chapter n° ..... 95 .....

Part n° .....

DESCRIPTION (1)  RESCUE HOIST ASSY	P/N (2) 3G2591V01532	S/N (3) 40077	MANUFACTURER NAME (4) GOODRICH	ASSEMBLY DATE (5)	RETIREMENT LIFE (6) 10 Y / III HOIST OH
	P/N (7) 44316-12-104	S/N (8) 40077	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE (11)
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE (11)

NOTES (12)  
HOIST T50 : 1.2 (REFER ARC)  
C025 - 04

### ASSEMBLY HISTORICAL RECORD

INSTALLATION							REMOVAL							
DATE (13)	A/C		ASSY			ORGANIZATION (19)	STAMP AND SIGNATURE (20)	DATE (21)	A/C TOTAL TIME (22)	ASSY		REASON OF REMOVAL (25)	ORGANIZATION (26)	STAMP AND SIGNATURE (27)
	R. MARKS (14)	N/C (15)	TOTAL TIME (16)	TOTAL TIME (17)	TIME SINCE OH (18)					TOTAL TIME (23)	TIME SINCE OH (24)			
20/2/21	M72-01	31307	3486.3 1124	56.2	1.2	GAM	<i>[Signature]</i>	16/2/22	4058.3 1445	67.6	12.8	DUE TO OPS REQUIREMENT	GAM	<i>[Signature]</i>
22/2/22	M72-03	31316	2679.7 1749	67.6	12.8	GAM	<i>[Signature]</i>	31/5/22	2736.2 1815	69.7 49 EIE Mga	14.9	TO SERVICE M72-01	GAM	<i>[Signature]</i>
31/5/22	M72-01	31307	4140.1 1516	69.7	14.9	GAM	<i>[Signature]</i>	31/5/22	4141.4 1516	69.7	14.9	DUE TO OPS REQUIREMENT	GAM	<i>[Signature]</i>
07/06/22 21/5/22 EIE Mga	M72-03	31316	2736.2 1815	69.7	14.9	GAM	<i>[Signature]</i>	13/07/22	2750.6 1856	70.9	16.1	TO SERVICE M72-01	GAM	<i>[Signature]</i>
13/07/22	M72-01	31307	4191.9 1516	70.9	16.1	GAM	<i>[Signature]</i>							

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### Sezione 2

Chapter n° .....

Part n° .....

### LIMITED LIFE COMPONENTS INSTALLED ON ASSY

COMPONENT DATA				INSTALLATION				REMOVAL			
DESCRIPTION (28)	P/N (29)	S/N (30)	RETIREMENT LIFE (31)	ASSY TOTAL TIME (32)	COMP. TOTAL TIME (33)	COMP. TIME SINCE OH (34)	STAMP AND SIGNATURE	ASSY TOTAL TIME (36)	COMP. TOTAL TIME (37)	COMP. TIME SINCE OH (38)	STAMP AND SIGNATURE (39)
HOIST Cable ASSEMBLY Clutch ASSEMBLY	42325-298	5198-397	4 yrs. 1500 LIFTS 40 Months	056.2 Hrs.	00.00	NEW	ACCEPT 5 <i>[Signature]</i>				
	44314-398-101	L91-219	2600 LIFTS	056.2 Hrs.	00.00	NEW	ACCEPT 5 <i>[Signature]</i>				
CARTRIDGE IMPULSE	42315-281	9110	5Y (MD)	56.2	0.0	NEW	<i>[Signature]</i> <b>GAM N003 DGTA</b>	69.7	13.5	NEW	<i>[Signature]</i> <b>GAM N010 DGTA</b>
SINGLE HOIST MOUNT	36259102551	00059	100100 HOIST LIFT	0.0	0.0	NEW					
CARTRIDGE IMPULSE	42315-281	12424	5Y (MD) DUE: 10/2025	69.7	0.0	NEW	<i>[Signature]</i> <b>GAM N010 DGTA</b>				

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### Sezione 3

Chapter n° .....

Part n° .....

### ACTIVITY RECORD

DATE (40)	ASSY TOTAL TIME (41)	TASK (42)	ACTIVITY (43)	DATE (44)	ORGANIZATION (45)	STAMP AND SIGNATURE (46)
08 DEC 2020	056.2 HRS	OVERHAULED	OVERHAULED ON W.O. 4404/334 IAW CMM 25-60-06-3, Clutch Sep. 1423, Unpressured ADP, TSN: 056.2 HOURS (NOTED TSN PRIOR TO REPLACING MAIN HARNIBES P/N 443/6-850 WAS 055.0HRS)	08 DEC 2020	Goodrich	RECEIVED 5 [Signature]

# AGUSTA

UNA SOCIETA' DI AGUSTAWESTLAND



## LOG CARD

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### Sezione 4

Chapter n° .....

Part n° .....

### DIRECTIVES COMPLIANCE

#### MANDATORY DIRECTIVES

#### OPTIONAL DIRECTIVES

DIRECTIVE NUMBER (47)	ISSUE (48)	DATE OF COMPLIANCE (49)	ORGANIZATION (50)	STAMP SIGNATURE (51)	DIRECTIVE NUMBER (47)	ISSUE (48)	DATE OF COMPLIANCE (49)	ORGANIZATION (50)	STAMP SIGNATURE (51)
AD2015-0226	30/07/20 R5	08/12/20	Goodrich		SIL-2018-03	03/04/18 R1	08/12/20	Goodrich	
SB44316-12-101-06	21/02/12 R1	08/12/20	Goodrich		SIL-2019-02	21/03/19 R1	08/12/20	Goodrich	
SB44316-351-01	R1 27/02/12	08/12/20	Goodrich		SIL-2019-05	21/10/19 R1	08/12/20	Goodrich	
SB44316-12-101-07	R1 27/01/12	08/12/20	Goodrich						
SB44316-781-01	R3 20/07/13	08/12/20	Goodrich						
SB44316-600-3-03	23/01/18 R2	08/12/20	Goodrich						
SB44316-602-101-02	24/07/19 R1	08/12/20	Goodrich						

# LOG CARD

NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY

## Section 1

ATA Chapter 45

DESCRIPTION (1)  HOIST CORE K2	P/N (2) 392591V01531	S/N (3) 00077	MANUFACTURER NAME (4) GOODRICH	ASSEMBLY/MANUFACTURING DATE (5) MAY 09	RETIREMENT LIFE / TIME LIMITS (6) 10 YEARS
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE / TIME LIMITS (11) 111 HOIST OH
	P/N (7) 392591V01531	S/N (8) 40077	MANUFACTURER NAME (9) GOODRICH	DATE OF CHANGE (10) 12 OCT 2017	RETIREMENT LIFE / TIME LIMITS (11) 10 YEARS / 111 HRS

**NOTES**

OVERHAUL DUE ON: 30 / 09 / 2020

### ASSEMBLY HISTORICAL RECORD

INSTALLATION						REMOVAL							
DATE (12)	R. MARKS (13)	A/C		ASSY		ORGANIZATION, STAMP AND SIGNATURE (18)	DATE (19)	A/C		ASSY		REASON FOR REMOVAL (24)	ORGANIZATION, STAMP AND SIGNATURE (25)
		TOTAL FLIGHT HOURS (15)	TOTAL HOURS (16)	TIME SINCE OH (17)	TOTAL FLIGHT HOURS (20)			ACTUAL TOTAL HOURS (21)	TOTAL HOURS WITH PENALTY FACTOR (22)	TIME SINCE OH (23)			
	TOTAL LANDINGS (15)	TOTAL LANDINGS (16)	LANDINGS SINCE OH (17)	TOTAL LANDINGS (20)	ACTUAL TOTAL LANDINGS (21)			TOTAL LANDINGS WITH PENALTY FACTOR (22)	LANDINGS SINCE OH (23)				
	S/N (14)	TOTAL LIFTS/CYCLES (15)	TOTAL LIFTS/CYCLES (16)	LIFTS/CYCLES SINCE OH (17)			TOTAL LIFTS/CYCLES (20)	ACTUAL TOTAL LIFTS/CYCLES (21)		LIFTS/CYCLES SINCE OH (23)			
18.7.20	M72-02	2903.8	55.9	-	GAM <i>Del</i> GAM N003 DGTA	1-10-2020	3042.5	55.9		-	DUE FOR OVERHAUL	GAM <i>Del</i> GAM N003 DGTA	
	31315	3241					3413						
20/2/2021	M72-01	3486.3		0.0	GAM								
	31307	3951	EIE <i>del</i>										
							REFER						
							NEW LOGCARD						

# LOG CARD

## Section 1

NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY







ATA Chapter ..... 95 .....

DESCRIPTION (1)  HOIST CORE K2	P/N (2) 392591V01531	S/N (3) 00077	MANUFACTURER NAME (4) GOODRICH	ASSEMBLY/MANUFACTURING DATE (5) MAY 09	RETIREMENT LIFE / TIME LIMITS (6) 10 YEARS
	P/N (7) 44316 -12 -101	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE / TIME LIMITS (11) 111 HOIST OH
	P/N (7) 392591V01531	S/N (8) 40077	MANUFACTURER NAME (9) GOODRICH	DATE OF CHANGE (10) 12 OCT 2017	RETIREMENT LIFE / TIME LIMITS (11) 10 YEARS / 111 HRS

NOTES

OVERHAUL DUE ON : 30/09/2020

### ASSEMBLY HISTORICAL RECORD

INSTALLATION						REMOVAL							
DATE (12)	R. MARKS (13)	A/C		ASSY		ORGANIZATION, STAMP AND SIGNATURE (18)	DATE (19)	A/C		ASSY		REASON FOR REMOVAL (24)	ORGANIZATION, STAMP AND SIGNATURE (25)
		TOTAL FLIGHT HOURS (15)	TOTAL HOURS (16)	TIME SINCE OH (17)	TOTAL FLIGHT HOURS (20)			ACTUAL TOTAL HOURS (21)	TOTAL HOURS WITH PENALTY FACTOR (22)	TIME SINCE OH (23)			
		TOTAL LANDINGS (15)	TOTAL LANDINGS (16)	LANDINGS SINCE OH (17)	TOTAL LANDINGS (20)			ACTUAL TOTAL LANDINGS (21)	TOTAL LANDINGS WITH PENALTY FACTOR (22)	LANDINGS SINCE OH (23)			
S/N (14)	TOTAL LIFTS/CYCLES (15)	TOTAL LIFTS/CYCLES (16)	LIFTS/CYCLES SINCE OH (17)	TOTAL LIFTS/CYCLES (20)	ACTUAL TOTAL LIFTS/CYCLES (21)	TOTAL LIFTS/CYCLES SINCE OH (23)							
24.06.19	M72-01	2973.6	55.9	-	3123.6	55.9	24.09.19	3601			-	SWAPPED WITH M72-02 DUE TO OPS REQUIREMENT	
	31307	3458											
24.09.19	M72-02	2505.2	55.9	-	2632.4	55.9	09.12.19	2945			-	SWAPPED WITH M72-03 DUE TO OPS REQUIREMENT	
	31315	2778											
09.12.19	M72-03	2139.5	55.9	-	2257.8	55.9	08.05.20	3385			-	TO SERVICE M72-02	
	31316	3291											
08.05.20	M72-02	2769.1	55.9	-	2811.4	55.9	1.6.20	3141			-	TO SERVICE M72-03	
	31315	3092											
1.6.20	M72-03	2261.8	55.9	-	2263.7	55.9	2.6.20	3409			-	TO SERVICE M72-02	
	31316	3403											
2.6.20	M72-02	2811.4	55.9	-	2897.4	55.9	16.7.20				-	DUE TO OPERATION REQUIREMENT	
	31315	3141											



# LOG CARD

M02-02

Section 1

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

Chapter n° ..... 95  
Part n° .....

DESCRIPTION (1) <b>HOIST CORE K2</b> <i>C025-04</i>	P/N (2) <b>3G2591V01531</b>	S/N (3) <b>00077</b>	MANUFACTURER NAME (4) <b>GOODRICH</b>	ASSEMBLY DATE (5) <b>MAY 09</b>	RETIREMENT LIFE (6) <b>10 YEARS - 0/haul</b>
	P/N (7) <b>44316-12-101</b>	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE (11) <b>111 hoist OH</b>
	P/N (7) <b>3G2591V01531</b>	S/N (8) <b>40077</b>	MANUFACTURER NAME (9) <b>Goodrich</b>	DATE OF CHANGE (10) <b>12 Oct 2017</b>	RETIREMENT LIFE (11) <b>10 years / 111 hrs</b>

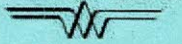
NOTES (12)  
**OVERHAUL DUE ON: 31/8/2020**

## ASSEMBLY HISTORICAL RECORD

INSTALLATION							REMOVAL							
DATE (13)	A/C			ASSY		ORGANIZATION (19)	STAMP AND SIGNATURE (20)	DATE (21)	A/C TOTAL TIME (22)	ASSY		REASON OF REMOVAL (25)	ORGANIZATION (26)	STAMP AND SIGNATURE (27)
	R. MARKS (14)	N/C (15)	TOTAL TIME (16)	TOTAL TIME (17)	TIME SINCE OH (18)					TOTAL TIME (23)	TIME SINCE OH (24)			
SEP. 10		31315	00.00	00.00	NEW	AGUSTA		19.10.16	1640.6	49.6	-	REMOVE DUE TO OPERATIONAL REQ.	SAS	
21.10.16	M72-02	31315	1641.3	49.6	-	SAS		01.12.16	1670.8	50.9 <del>79.4</del>	-	REMOVED FOR EASA AD NO. 2015-226R3 COMPLIANCE	SAS	
12.01.18	M72-01	31307	2477.8	51.8	-	GAM		21.9.18 <del>23.10.18</del>	2716.3	53.6	-	ops. REQUIREMENT	GAM	
21.09.18	M72-03	31316	1896.8	53.6 <del>50.9</del>	-	GAM		26.11.18	1947.9	54.6	-	ops. REQUIREMENT.	GAM	
28.11.18	M72-03	31316	1948.3	54.6	-	GAM		28.01.19	1976.2	55.9	-	TO SERVICE M72-01	GAM	
28.01.19	M72-01	31307	2847.2	55.9	-	GAM		29.05.19	2972.1	55.9	-	TO SERVICE M72-03	GAM	
29.05.19	M72-03	31316	2017.9	55.9	-	GAM		24.06.19	2029.0	55.9	-	TO SERVICE M72-01	GAM	

# AGUSTA

UNA SEPARATA DA AGUSTAWESTLAND



## LOG CARD

### Section 2

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

REF. P/N: 3G2591V01531 S/N: 00077

Chapter n° ..... 95 .....

Part n° .....

### LIMITED LIFE COMPONENTS INSTALLED ON ASSY

COMPONENT DATA				INSTALLATION				REMOVAL			
DESCRIPTION (28)	P/N (29)	S/N (30)	RETIREMENT LIFE (31)	ASSY TOTAL TIME (32)	COMP. TOTAL TIME (33)	COMP. TIME SINCE OH (34)	STAMP AND SIGNATURE (35)	ASSY TOTAL TIME (36)	COMP. TOTAL TIME (37)	COMP. TIME SINCE OH (38)	STAMP AND SIGNATURE (39)
Cartridge DT 35-06	42315-281	1759	5 Y M/D	00.00	00.00	NEW		-	-	-	-
External Hoist Cable Assy RL047	42325-298	==	1500 Hoist lifts	00.00	00.00	NEW					
Main Housing RL051	44308-130	==	4600 FH	00.00	00.00	NEW					
Ball-Spline Assembly RL049	42277-118	==	17791 FH	00.00	00.00	NEW					
Cable Drum RL050	42325-213	==	42360 FH	00.00	00.00	NEW					
CARTRIDGE	42315-281	3890	5Y M/D	0.0	0.0	NEW	SAS TR 001			UNK	
Hoist cable Assy	42325-298	594-136	1500 lifts	00.00	00.00	New					
CARTRIDGE	42315-281	7341	5Y (MD)	55.9	UNK	NEW	24/9/19	55.9	UNK	NEW	9/12/19
CARTRIDGE	42315-281	7341	5Y (MD)	55.9	UNK	NEW	12/03/	55.9	UNK	NEW	30/7/20
CARTRIDGE	42315-281	9213	5Y (MD)	55.9	UNK	NEW	30/7/20	55.9	UNK	NEW	



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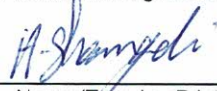
### Section 3

Chapter n° .....

Part n° .....

### ACTIVITY RECORD

DATE (40)	ASSY TOTAL TIME (41)	TASK (42)	ACTIVITY (43)	DATE (44)	ORGANIZATION (45)	STAMP AND SIGNATURE (46)
12 OCT 2017	1670.8 79.1 hrs	EASA AD 2015-0226 R3, Repaired	Repaired on w/0 41594/61, IAW CMM 25-60-06-3. Install POP 2 clutch PN 44314-398-101, SN L80-113, Slip 1434	12 OCT 2017	Goodrich	N. Teh
<del>20/4 2018</del>	<del>2207.4 53.9 OH</del>	<del>AW139 BT 139-443 REV. A</del>	<del>HOIST LOAD TEST CARRIED OUT COMPLIANCE PART III WITHIN 6 MTH / 400 cycle</del>	<del>20/4/18 13/2/18</del>	<del>E.F.E GAM</del>	<del>GAM T001 DGTA </del>
13/7 2018	2661.4 FH 54.3 OH					
14/01/2019	1971.9 FH 55.9 OH	AW139 BT 139-443 REV. A	HOIST LOAD TEST CARRIED OUT COMPLIANCE PART III EVERY 6MTH / 400 CYCLE	14/01/19	GAM	GAM T001 DGTA
11/07/2019	2996.5 FH	AW139 BT 139-443 REV. A	HOIST OVERLOAD CLUTCH INSP CARRIED OUT EVERY 6MTH / 400 CYCLE	11/07/19	GAM	GAM T001 DGTA
10/01/2020	2142.0 HOIST HRS 55.9	AW139 BT 139-443 REV. A	HOIST LOAD TEST CARRIED OUT COMPLIANCE PART III EVERY 6 MONTHS / 400 CYCLE	10/01/20	GAM	GAM N001 DGTA

1. Approving Civil Aviation Authority / Country: <b>FAA / UNITED STATES</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 0000000000008221072 33089002 Page 1 of 1	
4. Organization Name and Address: GOODRICH CORPORATION 2727 East Imperial Hwy. Brea, CA 92821 TEL: 714-984-1461 FAX: 714-984-1675 Repair Station # A04R057M				5. Work Order/Contract/Invoice Number:  002359		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
01	RESCUE HOIST-POST MOUNT A	44316-12-104	1	40077	OVERHAULED	
12. Remarks: Purpose: Approval for Return to Service Batch no. / Lot ID:0029370551 Overhauled on WO 44041334 IAW CMM 25-60-06-3, Rev. "2". Complied with the following service bulletins: EASA AD 2015-0226R5, SB 44316-12-101-06, SB 44316-351-01, SIL-2018-03, SIL-2019-02, SIL-2019-05, SB 44316-12-101-07, SB 44316-781-01, SB 44316-600-3-03, SB 44316-602-101-02. Installed Pop. 2 clutch PN 44314-398-101, SN: L91-219, clutch slip: 1422, TSN: 0000 hours. Installed rescue hoist cable PN 42325-298, SN: S98-397, DOM: 25/09/2020, TSN: 0000 hours. Hoist TSN: 001.2 Hours (Hoist TSN prior to replacing Main Harness PN 44316-850 was 055.0 HOURS). Unit passed the acceptance testing requirements as defined by CMM 25-60-06-3. Refer to the attached strip report for the shop findings report. CPN: 3G2591V01532, (SOLID PARTNERS SDN BHD) Export airworthiness approval-this article meets the special requirements of MALAYSIA PMA Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the [product/article] is considered ready for release to service under EASA Part 145 Approval No. EASA145.4649						
13a. Certifies the items identified above were manufactured in conformity to:  <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12  Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval / Authorization No.:	14b. Authorized Signature: 		14c. Approval / Certificate No.: AO4R057M	
13d. Name (Typed or Printed):		13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): AMIR SHAMAYELI		14e. Date (dd/mmm/yyyy): 08 DEC 2020	
<b>User / Installer Responsibilities</b>						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.  Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.  Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

# CERTIFICATE OF CONFORMANCE

Goodrich Corporation  
2727 East Imperial Hwy.  
Brea, CA 92821



UTC Aerospace Systems

Date:  
07-DEC-2020

Page 1 of 1

Delivery No:  
33089002

Customer PO/Item:  
002359

002359

**Sold-to Address: 24390**  
SOLID PARTNERS SDN BHD  
OFF JALAN BALAKONG  
CHERAS  
NO. 31 JALAN KASTURI 3  
43200 SELANGOR  
MALAYSIA

**Ship-to Address: 24390**  
SOLID PARTNERS SDN BHD  
OFF JALAN BALAKONG  
CHERAS  
NO. 31 JALAN KASTURI 3  
43200 SELANGOR  
MALAYSIA

Item Sub	Material	Description	Total Qty	UOM	Batch Nbr	Country of Origin
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10	44316-12-104	RESCUE HOIST ASSY DC PWD	1	EA	0029370551	US
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Serial number(s): 40077

Customer Part Number: 3G2591V01532

Sales Order Number/Item: 8159547/001030

Certificate of Conformance:

THIS HOIST ASSY. CONTAINS:NEW POP 2 CLUTCH ASSY.

PART NUMBER: 44314-398-101

SERIAL NUMBER: L91-219

WE HEREBY CERTIFY THAT THE ITEMS OR MATERIAL COVERED BY THIS DOCUMENT HAVE BEEN INSPECTED AND TESTED AND CONFORM TO THE APPROVED SPECIFICATIONS RELATIVE HERETO. THIS IS SUBSTANTIATED EITHER BY OUR OWN INSPECTION AND TEST, OR BY SATISFACTORY DOCUMENTARY EVIDENCE FROM THE ORIGINAL SOURCE OF SUPPLY.



AUTHORIZED SIGNATURE

DATE 12-8-2020

## TEARDOWN REPORT

SIS-CA MRO  
 SIS-CA HOIST & WINCH MRO  
 2727 EAST IMPERIAL HWY  
 BREA CA 92821-6713  
 USA



**UTC Aerospace Systems**

Repair Station #AO4R057M

<b>Customer</b> SOLID PARTNERS SDN BHD		<b>Cust PO</b>	002359
<b>Input Part</b>	44316-12-101	<b>Input Serial</b>	40077
<b>Output Part</b>	44316-12-104	<b>Output Serial</b>	40077
<b>Cust Part</b>	3G2591V01532	<b>Cust Serial</b>	40077
<b>Description</b>	RESCUE HOIST ASSY DC PWD	<b>Removal Code</b>	CRFR 44316-12-101 SN
<b>Aircraft</b>		<b>Engine Type</b>	
<b>Incoming NSN</b>	N/A	<b>Outgoing NSN</b>	N/A
<b>Date Rec'd</b>	11/03/2020	<b>Quote Date</b>	11/23/2020
<b>Ship Date</b>		<b>DOM</b>	
<b>Sales Order</b>	8159547	<b>Work Order</b>	44041334
		<b>Notification</b>	304029591
		<b>Accept Date</b>	11/23/2020
		<b>Qty</b>	1.000
		<b>Workscope</b>	OVERHAUL
		<b>Status/Work</b>	OVERHAULED
		<b>Failure Date</b>	
		<b>Tail No</b>	

**Technical Documents :**

CS: Overhaul Manual 25-01-13 Revision: 1 Rev. Date: 08/14/2015  
 Service Bulletin Recurring 44301-10-18 Revision: 6 Rev. Date: 10/10/2016  
 Service Bulletin Recurring 44301-10-22 Revision: 4 Rev. Date: 03/28/2016  
 Service Letter Recurring SIL-2018-03 Revision: 1 Rev. Date: 04/03/2018  
 Service Letter Recurring SIL-2019-02 Revision: 1 Rev. Date: 03/21/2019  
 Service Letter Recurring SIL-2019-05 Revision: 1 Rev. Date: 10/21/2019  
 CMM: 25-60-06-3 ATA #: 25-60-06-3 Revision: 2 Rev. Date: 05/24/2016  
 25-60-06-3TR2 ATA #: 25-60-06-3TR2 Revision: 1 Rev. Date: 07/18/2016

**Customer Reason for Return**

**REASON FOR RETURN**

Parties agree Collins Terms & Conditions apply to this purchase order, and supersede any other terms referenced herein.

GIVEN THE DYNAMICALLY EVOLVING COVID 19 PANDEMIC, IT IS AGREED AND ACKNOWLEDGED BY BOTH PARTIES THAT PERFORMANCE BY COLLINS UNDER THIS ACKNOWLEDGEMENT MAY EITHER BE POSTPONED, DELAYED OR OTHERWISE DISRUPTED WITHOUT ANY LIABILITY TO COLLINS.

PN 44316-12-101 SN 40077  
 MFG: 9/2010  
 LAST SHIP: 10/2017  
 REASON FOR RETURN: DUE 10 YEARS OVERHAUL

**Evaluation Inspection**

## TEARDOWN REPORT

SIS-CA MRO  
 SIS-CA HOIST & WINCH MRO  
 2727 EAST IMPERIAL HWY  
 BREA CA 92821-6713  
 USA  
 Repair Station #AO4R057M



**UTC Aerospace Systems**

Work Order	44041334	Description	RESCUE HOIST ASSY DC PWD	Date Rec'd	11/03/2020
Input Part	44316-12-101	Input Serial	40077		
Cust Part	3G2591V01532	Cust Serial	40077		

**Initial Observations**

Received By: Robert Silva  
 Received on: 10/29/2020  
 Inducted on: 11/03/2020  
 Last shipped: 10/2017  
 MFG Date: 05/2009  
 Warranty Consideration: NO  
 Log cards received: 4 LOG CARDS RECEIVED  
 ID Plate: 44316-12-101 SN 40077  
 Viboscribe: 44316-12-101 SN 40077  
 CPN: 3G2591V01531  
 Color: RED  
 Hook Received: 42315-488 SN 1381 W/CABLE HOOK ASSY ATTACHED  
 Damage to crate: NO  
 Crate Number: 42325-1000  
 Loose Hardware: NO  
 Cable Received: YES  
 Meter Reading: 055. \_ HOURS  
 Fairings Received:  
 1. 44311-128  
 2. 42325-128  
 3. 44316-151  
 4. 44316-153  
 Customer owned material received:  
 NO CUSTOMER OWNED MATERIAL RECEIVED  
 LRUs received:  
 1. 44316-602-101 SN 10012  
 FAR Required:  
 Cartridge received: NO  
 Customer reference numbers: TBD  
 Per-CSR the Reason For Return:  
 DUE 10 YEARS OVERHAUL  
 Members present during the induction: Robert Silva  
 CSR: DEVONA  
 Per-CSR End User: SOLID PARTNERS  
 NOTES:  
 1. HOUR METER MIGHT NOT BE WORKING CORRECTLY ITS MISSING A NUMBER

**Evaluation Inspection**

**Test Evaluation\***

Unit W/O	44041334	P/N	44316-12-101	S/N	40077
Reason for Return: DUE 10 YEARS OVERHAUL					
Confirmed.					
<ul style="list-style-type: none"> <li>- Can't verify if the meter is working. The last digit is not legible.</li> <li>- Fan works</li> <li>- Retainer S/N 75-200 match</li> <li>- Potentiometer is loose</li> </ul>					

## TEARDOWN REPORT

SIS-CA MRO  
 SIS-CA HOIST & WINCH MRO  
 2727 EAST IMPERIAL HWY  
 BREA CA 92821-6713  
 USA



**UTC Aerospace Systems**

Repair Station #AO4R057M

Work Order	44041334	Description	RESCUE HOIST ASSY DC PWD	Date Rec'd	11/03/2020
Input Part	44316-12-101	Input Serial	40077		
Cust Part	3G2591V01532	Cust Serial	40077		

- Cable's color faded, replacing is necessary
- EMI filter, some hardwares and hoist connectors are rusted/corroded
- Unit ran well in cycles within speed range
- Clutch pulled at 1768.
- Oil drained and cable spooled

### Evaluation Inspection Disassembly Evaluation\*

49001-36 REV. "A" DATED 09/15/2006  
 Unit was disassembled and inspected in accordance with the Disassembly and Check sections of CMM 25-60-06-3 and/or per OEM specifications.

The customer's reason for return was: Confirmed.

The following service bulletins will be applied:

- SIL-2018-03
- SIL-2019-02
- SIL-2019-05
- 44316-602-101-02
- 44316-12-101-07
- 44316-781-01
- 44316-600-3-03
- 44316-12-101-06
- 44316-351-01

The following service bulletins were on the Work Order:  
 350-62-1006-01 N/A PN not in Range.

- 42315-489-01 N/A Lot # not in Range.
- 42315-489-02 N/A Lot # not in Range.
- 42325-213-01 N/A Correct Kicker Installed Already.
- 44316-12-101-03 N/A S/N not in Range.
- 44316-12-101-04 N/A S/N not in Range.
- 44316-600-3-02 N/A Motor PN is "44316-602-101".
- 49500-740-01 N/A Control Pendant not w/ Unit.
- 44316-12-101-06 N/A Hook Assy is already "44316-276".
- 44316-351-01 N/A Unit not to be Converted.
- 44301-10-22 N/A "SIL-2019-05" Supersedes.
- SIL-2018-03 Applicable @ Reassy.
- SIL-2019-02 Applicable @ Reassy.
- SIL-2019-05 Applicable @ Reassy.
- 44316-602-101-02 TBD @ Lower Level.
- 44316-12-101-07 Applicable @ Reassy.
- 44316-600-4-01 N/A Motor is correct PN.
- 44316-781-01 Applicable @ Reassy.

The following sub-assemblies were disassembled to complete the repair:  
 Cable hook assembly, Traction rollers and sheave crowder assembly, Main

## TEARDOWN REPORT



**UTC Aerospace Systems**

SIS-CA MRO  
SIS-CA HOIST & WINCH MRO  
2727 EAST IMPERIAL HWY  
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USA  
Repair Station #AO4R057M

Work Order	44041334	Description	RESCUE HOIST ASSY DC PWD	Date Rec'd	11/03/2020
Input Part	44316-12-101	Input Serial	40077		
Cust Part	3G2591V01532	Cust Serial	40077		

harness assembly, Motor fan assembly, Motor assembly, Race and clutch assembly, Automatic brake assembly, Slip clutch assembly, Level wind and storage drum assembly, Overload clutch assembly, Gearbox Assembly.

Technician Notes:  
- Completed disassembly of unit.

1. Drum is good.
2. Ball spline is good.
3. Level wind to be replaced per Overhaul.
4. Level wind Shoe to be replaced per Overhaul.
5. Gears are good.
6. Main Harness has an illegible hour meter, item to be replaced.
7. Cable Cut Harness is good.
8. Cable Guide is good.
9. Roller Cage has corrosion, item to be replaced.
10. Sheave to be replaced per Overhaul.
11. Crowder to be replaced per Overhaul.
12. Input Shaft is good
13. Rescue Cable has Color Faded, item to be replaced per Overhaul.
14. Gearbox Fairing is good.
15. Motor Fairing is good.
16. Drum Cover is good.
17. Outboard Fairing is good.
18. Gearbox is good.
19. Hook Assay is good. Bearing, Lock spring, Nut, & Carrier to be replaced
20. Cable Rollers all(4)have wear marks, items to be replaced.
21. Bumper Measurement is 2.914".
22. Unit Housing(s) are good.

New/Overhauled Clutch to be installed at assembly.  
New Cable to be installed at assembly.

Motor sent to MRO Electronics for "SB44316-602-101-02".

Brake's Running Torque was 35.7 in lb(31 - 35 in lb).

Clutch S/N Out: L80-113.

"42315-60" Slip Torque was 5.7 in lb (9 - 11 In lb).

"42315-61" Slip Torque was 7.1 in lb (11 - 13 in lb).

Gears sent into Inspection.

All accessible critical parts were inspected in accordance with the critical parts inspection criteria. Refer to the attached strip report for a list of replaced components.

### Evaluation Inspection

## TEARDOWN REPORT

SIS-CA MRO  
SIS-CA HOIST & WINCH MRO  
2727 EAST IMPERIAL HWY  
BREA CA 92821-6713  
USA  
Repair Station #AO4R057M



**UTC Aerospace Systems**

<b>Work Order</b>	44041334	<b>Description</b>	RESCUE HOIST ASSY DC PWD	<b>Date Rec'd</b>	11/03/2020
<b>Input Part</b>	44316-12-101	<b>Input Serial</b>	40077		
<b>Cust Part</b>	3G2591V01532	<b>Cust Serial</b>	40077		

### MotorTest Evaluation

Unit was tested IAW the Testing and Fault Isolation section of CMM 25-61-13-3  
Other Notes:  
Current is unstable at 36 in-lbs. potentiometers R8, and R13 are inoperable.  
Some rusted on EMI filter.  
Functional test is normal.

### Evaluation Inspection

#### Motor Disassembly Evaluation

Unit was disassembled and inspected in accordance with OEM specifications and FAA approved data.  
Technician Notes:

- = Disassembled the motor for verification of all service bulletins and CCA boards. Service bulletins 44316-600-3-03 and 44316-602-101-02 are applicable.
- = Removed PCB 44316-750 old version and disposal.
- = Installed PCB 44316-865 S/N: A1137 S/N: A1145 screened by engineer.
- = Current is unstable at 36 in-lbs. Needs to be placed potentiometers R8, and R13 on logic board.
- = Current sensors pins are rusting on GREEN, and BLACK phase, needs to be replaced.
- = EMI filter is rusting, needs to be cleaned.
- = Reassemble the motor and RE-ATP.

All accessible critical parts were inspected in accordance with the critical parts inspection criteria. Refer to the attached strip report for a list of replaced components.

### Evaluation Inspection

#### OVERHAUL

### Tear Down Attachment

### Quote Attachment

### Service Bulletins - Outgoing

ZMT 44316-600-3-03

### Service Bulletins - Outgoing

ZMT 44316-602-101-02



## TEARDOWN REPORT

SIS-CA MRO  
 SIS-CA HOIST & WINCH MRO  
 2727 EAST IMPERIAL HWY  
 BREA CA 92821-6713  
 USA  
 Repair Station #AO4R057M



**UTC Aerospace Systems**

<b>Work Order</b>	44041334	<b>Description</b>	RESCUE HOIST ASSY DC PWD	<b>Date Rec'd</b>	11/03/2020
<b>Input Part</b>	44316-12-101	<b>Input Serial</b>	40077		
<b>Cust Part</b>	3G2591V01532	<b>Cust Serial</b>	40077		

**Service Bulletins - Outgoing**  
 ZMT 44316-12-101-06

**Service Bulletins - Outgoing**  
 ZMT 44316-351-01

**Service Bulletins - Outgoing**  
 ZMT SIL-2018-03

**Service Bulletins - Outgoing**  
 ZMT SIL-2019-02

**Service Bulletins - Outgoing**  
 ZMT SIL-2019-05

**Service Bulletins - Outgoing**  
 ZMT 44316-12-101-07

**Service Bulletins - Outgoing**  
 ZMT 44316-781-01

**Components :**

Order	Material	Description	Req Qty	Issued	Reason Code	Stor Loc
44041334	42315-190	SET SCREW, CABLE DRUM	1	1	Overhaul	PDS1
44041334	42315-165-1	BEARING, BALL	4	4	Overhaul	PDS1
44041334	42315-165-2	BEARING, BALL	1	1	Overhaul	PDS1
44041334	44316-154	SHOE LEVEL WIND	1	1	Overhaul	PDS1
44041334	44316-149	SCREW, LEVELWIND ASSY	1	1	Overhaul	PDS1
44041334	42325-298	CABLE, RESCUE HOIST	1	1	Overhaul	PDS1
44041334	42315-72	CROWDER ASSY SHEAVE	1	1	Overhaul	PDS1
44041334	42315-169	SHEAVE-TRACTION	1	1	Overhaul	PDS1
44041334	44311-410	SEAL, OIL	1	1	Overhaul	PDS1
44041334	330385	OIL SEAL	1	1	Overhaul	PDS1
44041334	80201-3725	SEAL, LIP, 375 X, 875 X, 250	1	1	Overhaul	PDS1
44041334	42315-165-5	BEARING, BALL	3	3	Overhaul	PDS1
44041334	42315-165-7	BEARING, BALL	2	2	Overhaul	PDS1

## TEARDOWN REPORT

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 Repair Station #AO4R057M



**UTC Aerospace Systems**

Work Order	44041334	Description	RESCUE HOIST ASSY DC	Date Rec'd	11/03/2020	
Input Part	44316-12-101	Input Serial	40077	PWD		
Cust Part	3G2591V01532	Cust Serial	40077			
44041334	42315-165-3	BEARING,BALL	1	1	Overhaul	PDS1
44041334	42315-165-16	BEARING BALL	1	1	Overhaul	PDS1
44041334	42315-165-23	BEARING, BALL	1	1	Overhaul	PDS1
44041334	42315-165-24	BEARING, BALL	2	2	Overhaul	PDS1
44041334	42277-289	LOCK SPRING- CARRIER	1	1	Overhaul	PDS1
44041334	42315-165-18	BEARING, BALL	1	1	Overhaul	PDS1
44041334	42315-165-13	BEARING BALL	2	2	Overhaul	PDS1
44041334	42315-78	GEAR DISK ASSY-FRICTION	1	1	Overhaul	PDS1
44041334	42325-255	DISC, FRICTION	5	5	Overhaul	PDS1
44041334	49001-8	SHIM	1	1	Overhaul	PDS1
44041334	42315-165-4	BEARING, BALL	1	1	Overhaul	PDS1
44041334	42305-148	SLEEVE-PUMP SPRING	2	2	Overhaul	PDS1
44041334	42315-165-8	BEARING, BALL	7	7	Overhaul	PDS1
44041334	42315-165-22	BEARING, BALL	1	1	Overhaul	PDS1
44041334	42315-165-15	BEARING, NEEDLE	2	2	Overhaul	PDS1
44041334	42315-165-20	BEARING, BALL, SEALED	1	1	Overhaul	PDS1
44041334	44314-398-101	OVERLOAD CLUTCH ASSEMBLY	1	1	Overhaul	PDS1
44041334	42315-91	GEAR DISK ASSY-FRICTION	1	1	Overhaul	PDS1
44041334	44316-850	MAIN HARNNESS ASSY	1	1	Hour Meter Illegible	PDS1
44041334	42277-284	CAP, SEAL CARRIER	1	1	Rejected	PDS1
44041334	42234-65	RING-LVL WD DR RETAINER	1	1	Deformed	PDS1
44041334	A8708	RELIEF VALVE, BIDIRECTION	1	1	Rejected	PDS1
44041334	42315-165-14	BEARING, ROLLER	1	1	Worn	PDS1
44041334	42277-244	SEAL, OIL	1	1	Worn	PDS1
44041334	42315-144	SPRING, CAGE	4	4	Corroded	PDS1
44041334	42315-127	CAGE, TRACTION ROLLER	1	1	Corroded	PDS1
44041334	44316-287	CARRIER ASSEMBLY	1	1	SB44316-12-101-06	PDS1
44041334	42305-298	NUT, HOOK	1	1	Rejected	PDS1
44041334	42315-106	TIRE ASSY, CAGE	4	4	Wear Marks	PDS1
44041334	MP200	PLATE,MARKER,IDENTIFICAT ION,WHITE,NYLON	2	2	SB44316-781-01	PDS1

## TEARDOWN REPORT

SIS-CA MRO  
 SIS-CA HOIST & WINCH MRO  
 2727 EAST IMPERIAL HWY  
 BREA CA 92821-6713  
 USA  
 Repair Station #AO4R057M



**UTC Aerospace Systems**

<b>Work Order</b>	44041334	<b>Description</b>	RESCUE HOIST ASSY DC PWD	<b>Date Rec'd</b>	11/03/2020
<b>Input Part</b>	44316-12-101	<b>Input Serial</b>	40077		
<b>Cust Part</b>	3G2591V01532	<b>Cust Serial</b>	40077		

Part No.	Description	QTY	QTY	QTY	Disposition	Part No.	QTY	QTY	QTY	Disposition	Part No.
44041334	PINION, SECOND STAGE	1	1	1	Rejected						PDS1
44041334	SPACER, BRG-SWITCH DR	1	1	1	LOST						PDS1
44041334	KEY, MACHINE, SQUARE	1	1	1	LOST						PDS1
44041334	PIN, SPRING	1	1	1	Not Ordered						PDS1
44041334	POLYCARBONATE, CLEAR	1	1	1	Not Ordered						PDS1
44064896	SCREW, PAN HEAD	8	8	8	SB44316-600-3-03						PDS1
44064896	PCB ASSEMBLY, VOLTAGE CLAMP BD	2	2	2	SB44316-600-3-03						PDS1
44064896	INSULATOR, THERMALLY	2	2	2	SB44316-600-3-03						PDS1
44064896	INSULATOR, THERMALLY	4	4	4	SB44316-600-3-03						PDS1
44064896	RESISTOR, POWER, 200 WATT, SOT-227B	4	4	4	SB44316-600-3-03						PDS1
44064896	POTENTIOMETER, SMT	2	2	2	Inoperative						PDS1
44064896	CURRENT SENSOR ASSY	2	2	2	Rusting						PDS1

**COPY**

**GOODRICH**

COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 1 of 8)



Goodrich P/N: 44316-12-108

Rev: K

S/N: 90077 Date: 12-4-20

Customer Part Number

Motor/Controller P/N: 99316-662-101

S/N: 10012 Work Order No.: 94091334

Test Stand No.: 6

S/N: 10012

Ambient Air Temp: 71 °C

TEST	MEASUREMENT	LIMIT	ACCEPT	REJECT
1.A.(7) Overload Clutch Test		Test performed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.A.(8) Automatic Brake Assembly Test		Test performed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.A Cable Foul Switch Test		Test performed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.A.(1) Cable Foul No Operation (for all hoists except 44316-12-102)	Hoist reeling operation	Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Pendant:	CBL indicator	Illuminates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	SLOW & TEMP indicators	Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Pendant:	CBL indicator	Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	SLOW & TEMP indicators	Stop Blinking & not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		No operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
n) Pendant:	SLOW & TEMP indicators	Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	CBL indicator	Stop Blinking & not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		No operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.A.(2) Cable Foul No Operation (for 44316-12-102)	Hoist reeling operation	Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Pendant:	CBL indicator	Illuminates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	SLOW & TEMP indicators	Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Pendant:	CBL indicator	Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	SLOW & TEMP indicators	Stop Blinking & not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Operates at approx.		

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COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 2 of 8)

Goodrich P/N: 44316-12-104 Rev: K S/N: YD072 Date: 12-3-20

Work Order No.: 44041334



PARA TEST

MEASUREMENT

LIMIT

ACCEPT REJECT

n) Pendant GBL indicator  
Hoist

Not illuminated  
Operates at normal  
speed

N / A

4.B DC Bonding Resistance Test

(3) Connector J1 to housing  
Connector J2 to housing  
Connector J3 to housing

1.79m Ohms  
1.84m Ohms  
6.50m Ohms

20.0 mOhms Max.  
20.0 mOhms Max.  
20.0 mOhms Max.

✓ / ✓

4.C Observations/Tests

4.C.(3) Cable Install

(a) Traction System  
(b) Internal Cable Tension  
Cable Inspection  
(c) Cable Management

Wraps evenly   
No fouling   
No kinking   
No bunching   
No overlap

Maintains tension  
Cable taut  
No snags/broken wires

✓ / ✓

(d) Hour Meter (Initial Reading) 000.4 hrs  
(e) Cable Extremities Indication  
Initial/final 20' of Cable  
Cable Part Number 10325-298  
Cable Serial Number 598-347

Color orange

✓ / ✓

4.C.(4) Indicator Test

(a) Pendant  
All indicators

Cable Payout Display:  
All indicators

flash 3 times, then TEMP  
continues flashing  
flash 3 times, then TEMP  
continues flashing

✓ / ✓

(b) Pendant TEMP indicator  
Cable Payout Display TEMP indicator

stops flashing  
stops flashing

✓ / ✓

(c) 1) For all hoists except 44316-12-102  
Pendant WTR indicator  
2) Pendant WTR indicator

Illuminated  
Not illuminated

✓ / ✓

(d) For 44316-12-102 hoists  
1) Pendant GEN indicator  
2) Pendant GEN indicator  
Return GENOUT switch to ON position

Not illuminated  
Illuminated

N / A

4.C.(5) Hoist Fan (for 44316-12-101 hoists only)

(b) Hoist Fan

Operating properly

N / A

25-60-06-3

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COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 3 of 8)



Goodrich P/N: 44316-12-104

Rev.: K

S/N: 40077 Date: 11-3-20

Work Order No.: 44041334

PARA TEST	MEASUREMENT	LIMIT	ACCEPT	REJECT
<b>4.C.(6) Overtemperature Function</b>				
(c) Pendant TEMP Indicator		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist Cable Speed	<u>85</u> ft/min	Approx. 125 ft/min (38 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(e) Pendant TEMP Indicator		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(g) Hoist Cable Speed		Increase to full speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.C.(7) Cable Cut Harness Test</b>				
(a) SQUIB A lamp		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SQUIB B lamp		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) SQUIB A lamp		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SQUIB B lamp		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.D Extended Limit Switch Adjustments</b>				
<b>4.D.(1) Adjust "DOWN-ALL-STOP" Limit Switches S1 and S2</b>				
(a) Switches S11 and S12 ON (Reel out)		3 to 3 1/2 wraps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable on drum		S1 & S2 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) Rotate Cam of S1 and S2		Hoist stops rotating	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(f) Switch S12 ON (Reel out)		Minimum 2 1/2 cable wraps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
S1 and S2 operate		Cable reels out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(g) Switch S11 and S12 ON		Cable stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(h) Release S11			<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.D.(2) Adjust "FULL-OUT" Limit Switches S3 and S4</b>				
(a) Switch S11 ON		4 to 4 1/2 wraps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable on drum		S3 & S4 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) Rotate Cam of S3 and S4		Cable reel-out stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(f) Reel out, S3 and S4 operate		3 1/2 cable wraps Min.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(g) Switch S12 ON		Cable reels out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Reel out at least 1/4 revolution		S1 and S2 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable reel out		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.D.(3) Adjust "UP/DOWN-SLOW" Intermediate Deceleration Limit Switches S5 and S6</b>				
(a) Switch S11 ON (Reel In)		7 - 7 1/2 wraps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable on drum		S5 & S6 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) Rotate Eyelid Cam of S5 and S6		S5 & S6 operate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(d) Reel out at full speed		Illuminates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant SLOW light		Decelerates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist speed		Occurs before	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable Speed Deceleration		S3 and S4 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant SLOW light		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.E Feet/Meters Display Check</b>				
(3) Pendant CABLE LENGTH display		285 to 290 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable Payout Display CABLE PAYOUT		285 to 290 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(5) Pendant CABLE LENGTH display		86.8 to 88.4 meters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable Payout Display CABLE PAYOUT		86.8 to 88.4 meters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(8) Pendant CABLE LENGTH display		98 to 102 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable Payout Display CABLE PAYOUT		98 to 102 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 4 of 8)



Goodrich P/N: 44316-12-104 Rev: K S/N: 40627 Date: 12-3-20  
Work Order No.: 44041334

PARA TEST	MEASUREMENT	LIMIT	ACCEPT	REJECT
(10)	Pendant CABLE LENGTH display	0 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Cable Payout Display CABLE PAYOUT	0 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(12)	Pendant CABLE LENGTH display	0.0 meters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Cable Payout Display CABLE PAYOUT	0.0 meters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(14)	Pendant CABLE LENGTH display	0 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Cable Payout Display CABLE PAYOUT	0 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>

4.G Temporary Retracted Limit Switch Adjustments

(3)	S7 and S8 Hoist cable velocity	<u>34</u> ft/min	Actuate 35 ± 5 ft (10.7 ± 1.5m)/min	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(6)	S5 and S6 Hoist cable velocity	<u>86</u> fpm	Actuate 75 ± 15ft (23± 4.6m)/min	<input checked="" type="checkbox"/>	<input type="checkbox"/>

4.H Pilot and Operator Command Override Tests

(2)	Cable reeling direction		IN at 80 ft/min to "OUT" at 180 – 220 ft/min	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(4)	Hoist cable		Stops, then Reels in at 70 to 120 ft/min	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(6)	Hoist cable		Stops , then reels out	<input checked="" type="checkbox"/>	<input type="checkbox"/>

4.I Operational Tests

(1)	Ambient air temperature	<u>71</u>	°F or °C (circle)	<input type="checkbox"/>	<input type="checkbox"/>
(3)	Motor current	<u>43</u>	Amps < 70 Amps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(4).(c)	Braking over travel distance in 1/8th revolution increments or cable length	<u>5/8</u>		<input type="checkbox"/>	<input type="checkbox"/>
	50 lb. load (Cycle 1)	<u>3/8</u>		<input type="checkbox"/>	<input type="checkbox"/>
	200 lb. load (Cycle 2)	<u>3/8</u>		<input type="checkbox"/>	<input type="checkbox"/>
	300 lb. load (Cycle 3)	<u>3/8</u>		<input type="checkbox"/>	<input type="checkbox"/>
	400 lb. load (Cycle 6)	<u>3/8</u>		<input type="checkbox"/>	<input type="checkbox"/>
	500 lb. load (Cycle 7)	<u>3/8</u>		<input type="checkbox"/>	<input type="checkbox"/>
	600 lb. load (Cycle 8)	<u>1/4</u>		<input type="checkbox"/>	<input type="checkbox"/>

(4).(f).1	44316-12-102 Hoists only – Demonstrate Overtemperature/Generator Out function	<u>N/A</u>	Cable Velocity _____ ft/min	85 ft (25.9 m)/min MIN	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Current _____ Amps	<u>80</u>	80 Amps MAX		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(4).(f).2	All hoists except 44316-12-102 – Demonstrate Generator Out function	<u>N/A</u>	Cable Velocity (top layer) _____ ft/min	100 ft (30.5m)/min MIN	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Current (top layer) _____ Amps	<u>80</u>	85 Amps MAX		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(5)	Pilot control (reel in direction)	<u>N/A</u>	Overrides Pendant		<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Pilot control (reel out direction)	<u>N/A</u>	Overrides Pendant		<input checked="" type="checkbox"/>	<input type="checkbox"/>

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COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 5 of 8)

Goodrich P/N: 44316-\_\_\_\_\_ Rev: \_\_\_\_\_ S/N: \_\_\_\_\_ Date: \_\_\_\_\_  
Work Order No.: \_\_\_\_\_

(Use this data sheet for the 44316-12-102 hoist)

C o n t r o l M o d e	D i r e c t i o n	C o m m a n d C a b l e S p e e d	C a b l e L o a d (l b s)	C a b l e S p e e d F P M			M a x. C u r r e n t <sup>3</sup> (A m p s)		O i l S u m p (° F) (220° F M a x)	M o t o r H e a t S i n k (° F) (150° F M a x)
				T o p L a y e r	T o p L a y e r R e q d	2 <sup>o</sup> L a y e r	A c t u a l	R e q d		
1	Down	Variable	50		250 min					
	Up			250 min						
2	Down	Variable	200		250 min					
	Up			250 min						
3	Down	Variable	300		250 min					
	Up			250 min						
4	Down	Fixed	300		180 - 220					
	Up			180 - 220						
5	Down	Fixed	300		85 - 115					
	Up			85 - 115						
6	Down	Variable	400		250 min					
	Up			200 min						
7	Down	Variable	500		250 min					
	Up			200 min						
8	Down	Variable	600		250 min					
	Up			200 min						
9	Down	Fixed	600		85 min					
	Up			180 - 220						
10	Down	Fixed	600		180 - 220					
	Up			85 - 115						

- Notes: <sup>1</sup> Cable speed measured on top layer.  
<sup>2</sup> Cable speed measured on second layer – for reference only.  
<sup>3</sup> Maximum current measured on top layer.  
<sup>4</sup> Test required for 44316-12-102 Hoist only.

Accept \_\_\_\_\_ Reject \_\_\_\_\_



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COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 6 of 8)

Goodrich P/N: 44316-12-104 Rev: K S/N: 40077 Date: 12-3-20  
Work Order No.: 44041334



(Use this data sheet for the 44316-10-101, -104 and 44316-12-101, -104, -105 hoists)

C Y L I E	Control Mode	Direction	Command Cable Speed	Cable Load (lbs.)	Cable Speed <sup>1</sup> (FPM)			Max. Current <sup>2</sup> (Amps)	Req'd Oil Sump ( <sup>2</sup> F) (220°F Max)	Motor Heat Sink ( <sup>3</sup> F) (150°F Max)
					Top Layer Req'd	2 <sup>nd</sup> Layer	Actual			
1	Percent:	Down Up	Variable	50	295 307 305	250 min 250 min 250 min	239 244 245	64 46 43	73 79 85	69 72 75
2	Percent:	Down Up	Variable	200	296 304	250 min 250 min	238 243	73 48	95 110	76 78
3	Percent:	Down Up	Variable	300	290 195	250 min 180 - 220	234 155	95 28	109 115	78 80
4	Operator	Down Up	Fixed	300	195 98	180 - 220 85 - 115	155 78	28 15	115 100	80 81
5	Pilot:	Down Up	Fixed	300	98 302	85 - 115 250 min	78 243	15 53	95 110	85 88
6	Percent:	Down Up	Variable	400	302 280	250 min 200 min	22 121	22 53	86 100	85 88
7	Percent:	Down Up	Variable	500	300 252	200 min 200 min	121 58	53 87	100 129	88 88
8	Percent:	Down Up	Variable	600	252 298	200 min 250 min	58 135	87 63	129 142	88 90
9	Operator	Down	GENOUT	600	110	100 min	119	80	135	90
		Up								
10	Pilot:	Down	Fixed	600	194	180 - 220	155	42	124	94
		Up								
10	Pilot:	Down	Fixed	600	194	180 - 220	155	132	129	94
		Up								
10	Pilot:	Down	Fixed	600	97	85 - 115	78	20	134	96
		Up								
10	Pilot:	Down	Fixed	600	97	85 - 115	77	72	118	102
		Up								

Notes: <sup>1</sup> Cable speed measured on top layer.  
<sup>2</sup> Cable speed measured on second layer – for reference only.  
<sup>3</sup> Maximum current measured on top layer.

Accept  Reject

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COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 7 of 8)



Goodrich P/N: 44316-12-104 Rev: 1K S/N: Y0077 Date: 12-3-20  
Work Order No: 44041334

PARA TEST	MEASUREMENT	LIMIT	ACCEPT	REJECT
4.J.(2) Overload Clutch Test	<u>88</u> °F or °C	85-90°F (29-32°C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(h) Gearbox oil temperature	<u>87</u> °F or °C	85-90°F (29-32°C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable Drum	<u>1422</u> lbs	1275 to 1530 lbs. (578 to 694 kg)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(i) Gearbox oil temperature				
Clutch slip average load				

4.K Hoist Dead-Weight Load Test				
(6) Operate Hoist at 24 to 24.5 Volts:				
2 ft lift #1		Able to lift weight	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 ft lift #2		Able to lift weight	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(7) Lower dead-weight using Pendant		Does not stall	<input checked="" type="checkbox"/>	<input type="checkbox"/>

4.L Final Retracted Limit Switch Adjustments and Operational Checks

4.L.(1) Adjust "UP/DOWN-SLOW" Limit Switches S5 and S6	> 280 ft. (85 m)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(c) Pendant CABLE LENGTH display	No cable defects		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(d) Reel in with zero load	9½-10½ ft. extended		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Reel in cable	S5 & S6 actuate		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(e) Rotate Basic Cam of S5 and S6	Actuate		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(g) S5 and S6			<input checked="" type="checkbox"/>	<input type="checkbox"/>
(h) Length between cable guide and cable end	9-½ to 10-½ feet		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(i) Cable Speed	Decelerates		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant SLOW light	Illuminates		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.L.(2) Adjust "2-FT UP-DECEL" Limit Switches S7 and S8				
(c) S7 and S8	Actuate		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(e) S7 and S8 actuate	Actuate		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(f) Length between cable guide and cable end	21 to 26 inches		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(g) Cable Speed	Decelerates		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant SLOW light	Remains illuminated		<input checked="" type="checkbox"/>	<input type="checkbox"/>

4.L.(4) Inertial Limit/Homing Load & "UP LIMIT" Limit Switches S9 and S10 Adjustment

(b) Uncompressed thickness (A) <u>3.174</u> in.	Actuate		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(c) UP LIMIT switches	Stops		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist operation	Hoist stops each time		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(f) Activate S9 and S10 separately			<input checked="" type="checkbox"/>	<input type="checkbox"/>
(f) Compressed thickness (B) <u>3.056</u> in.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
(g) Energy Absorber compression 1 (A-B=C) <u>0.118</u> in.	(0.065-0.125 in.)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(h) Load = (C x 1600) <u>188.8</u> lbs.	Maintains homing load		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hook Energy Absorber	150±50 lbs.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(i) Uncompressed thickness (A) <u>3.114</u> in.				
Compressed thickness (B) <u>3.060</u> in.	(0.065-0.125 in.)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Energy Absorber compression 2 (A-B=C) <u>0.114</u> in.	Maintains homing load		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Load = (C x 1600) <u>182.4</u> lbs.	150±50 lbs.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hook Energy Absorber				

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COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 8 of 8)



Goodrich P/N: 44316-12-104 Rev.: K S/N: 40071 Date: 12-3-20  
PARA TEST MEASUREMENT LIMIT ACCEPT REJECT  
Work Order No.: 44041334

(i) Uncompressed thickness (A) 3.174 in. (0.065-0.125 in.) ✓  
Compressed thickness (B) 3.053 in. ✓  
Energy Absorber compression 3 (A-B=C) 0.121 in. ✓  
Load = (C x 1600) 193.6 lbs. ✓  
Hook Energy Absorber Maintains homing load ✓  
150±50 lbs. ✓

4.L.(5) Torque Check All Cam Screws 17-20 in.-lbs. ✓  
(a) Recheck all Cams torque ✓

4.L.(6) Final Potentiometer Adjustment 0 feet ✓  
(c) Pendant CABLE LENGTH display ✓

4.M Post Check Procedures Operates mid to ¾ level ✓  
(3) Hour Meter (Final Reading) 001.2 hrs ✓  
(4) Drain and fill with new Mobil Jet II oil conditioned ✓  
(9) Weight of Hoist Assy & gear case oil N/A ✓  
103.05 Lbs. or N/A Kg For 44316-10:-  
104.0 lb (47kg) max  
For 44316-12:-  
106.0 lb (48kg) max ✓

FINAL RESULT: ✓

Remarks: Pre-Tensioned @ SSD

Tested By:

25-60-06-3

CDA CAGE Code 3HRL4

1. Approving Civil Aviation Authority / Country: <b>FAA / UNITED STATES</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 0000000000005611931 73654432 Page 1 of 1	
4. Organization Name and Address: GOODRICH CORPORATION 2727 East Imperial Hwy. Brea, CA 92821 TEL: 714-984-1461 FAX: 714-984-1675 Project no. PQ1409NM				5. Work Order/Contract/Invoice Number:  4801585660		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:		11. Status/Work:
01	CARTRIDGE IMPULSE	42315-281	2	9110 9187		NEW
12. Remarks: Purpose: Airworthiness Approval Batch no. / Lot ID:0017654625  Produced under licensing agreement from the holder of the TC, this PMA part is not a critical component.  42315-281 REV. "G" DATED 12/05/2006 DOM: 05/2017; DOE: 05/2022						
13a. Certifies the items identified above were manufactured in conformity to:  <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.				14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12  Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.		
13b. Authorized Signature: 		13c. Approval / Authorization No.: 677547691		14b. Authorized Signature:		14c. Approval / Certificate No.:
13d. Name (Typed or Printed): RANDALL LIVES		13e. Date (dd/mmm/yyyy): 19 DEC 2017		14d. Name (Typed or Printed):		14e. Date (dd/mmm/yyyy):
<b>User / Installer Responsibilities</b>						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.  Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.  Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

## LOG CARD






NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

Chapter n° ..... 95 .....  
Part n° .....

### DIRECTIVES COMPLIANCE

#### MANDATORY DIRECTIVES

#### OPTIONAL DIRECTIVES

DIRECTIVE NUMBER (47)	ISSUE (48)	DATE OF COMPLIANCE (49)	ORGANIZATION (50)	STAMP SIGNATURE (51)	DIRECTIVE NUMBER (47)	ISSUE (48)	DATE OF COMPLIANCE (49)	ORGANIZATION (50)	STAMP SIGNATURE (51)
EASA AD 2015-0226 R3	R3 01 Jan 2016	12 Oct 2017	Goodrich	<i>[Signature]</i> 					
ASB 44301-10-15	R3 19 Nov 2013	12 Oct 2017	Goodrich	<i>[Signature]</i> 					
ASB 44301-10-18	R6 27 Sep 2016	12 Oct 2017	Goodrich	<i>[Signature]</i> 					
SB 44301-10-22	R3 28 Mar 2016	12 Oct 2017	Goodrich	<i>[Signature]</i> 					
SB 44301-10-24	R2 12 Oct 2016	12 Oct 2017	Goodrich	<i>[Signature]</i> 					
SB 44310-600-4-01	R2 NOV 15, 2016	12 Oct 2017	Goodrich	<i>[Signature]</i> 