

## Part Submission Warrant

Part Name <u><b>BOOT WIR CONN SLV</b></u>		Cust. Part Number <u><b>1C1T-14603-AA</b></u>	
Shown on Drawing No. <u><b>97BG-10C930-JA</b></u>		Org. Part Number <u><b>7158-3084-40</b></u>	
Engineering Change Level <u><b>G1 / AELE-E-11784007-286</b></u>		Dated <u><b>10-06-2014</b></u>	
Additional Engineering Changes <u><b>N/A</b></u>		Dated <u><b>N/A</b></u>	
Safety and/or Government Regulation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Purchase Order No. <u><b>N/A</b></u>		Weight (kg) <u><b>0,0005</b></u>
Checking Aid No. <u><b>N/A</b></u>	Checking Aid Engineering Change Level	<u><b>N/A</b></u>	Dated <u><b>N/A</b></u>

<b>ORGANIZATION MANUFACTURING INFORMATION</b>		<b>CUSTOMER SUBMITTAL INFORMATION</b>	
<b>YAZAKI EUROPE LTD</b> <span style="float: right;"><b>323047696</b></span>		<b>NURSAN</b>	
Organization Name & Supplier/Vendor Code			
<b>Robert Bosch Strasse., 43</b>			
Street Address		Buyer/Buyer Code	
<b>Cologne</b>	<b>NRW</b>	<b>D-50769</b>	<b>Germany</b>
City	Region	Postal Code	Country

  
**MATERIALS REPORTING**

Has customer-required Substances of Concern information been reported? ☒ Yes ☐ No ☐ n/a

Submitted by IMDS or other customer format: **IMDS**

Are polymeric parts identified with appropriate ISO marking codes? ☐ Yes ☐ No ☒ n/a

**IMDS ID: 657368659**

  
**REASON FOR SUBMISSION (Check at least one)**

<input type="checkbox"/> Initial submission	<input type="checkbox"/> Change to Optional Construction or Material
<input type="checkbox"/> Engineering Change(s)	<input type="checkbox"/> Supplier or Material Source Change
<input type="checkbox"/> Tooling: Transfer, Replacement, Refurbishment, or additional	<input type="checkbox"/> Change in Part Processing
<input type="checkbox"/> Correction of Discrepancy	<input type="checkbox"/> Parts produced at Additional Location
<input type="checkbox"/> Tooling Inactive > than 1 year	<input checked="" type="checkbox"/> Other - please specify below

**customer request**

  
**REQUESTED SUBMISSION LEVEL (Check one)**

☐ Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.

☒ Level 2 - Warrant with product samples and limited supporting data submitted to customer.

☐ Level 3 - Warrant with product samples and complete supporting data submitted to customer.

☐ Level 4 - Warrant and other requirements as defined by customer.

☐ Level 5 - Warrant with product samples and complete supporting data reviewed at organization's manufacturing location.

  
**SUBMISSION RESULTS**

The results for ☒ dimensional measurements ☒ material and functional tests ☐ appearance criteria ☐ statistical process package

These results meet all drawing and specification requirements: ☒ Yes ☐ NO (If "NO" - Explanation Required)

Mold / Cavity / Production Process **Mold 2660 / 839 cavities / Transfer**

  
**DECLARATION**

I affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of **87,500 / 8** hours.

I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.

  
**EXPLANATION/COMMENTS:** \_\_\_\_\_
 

Is each Customer Tool properly tagged and numbered? ☐ Yes ☐ No ☒ n/a

Organization Authorized Signature **Dorinda Santos** Date **21 February 2018**

Print Name **Dorinda Santos** Phone No. **+ 351 256 246 908** FAX No. **351 256 246 892**

Title **QE** E-mail [dorinda.santos@yazaki-europe.com](mailto:dorinda.santos@yazaki-europe.com)

FOR CUSTOMER USE ONLY (IF APPLICABLE)

PPAP Warrant Disposition: ☐ Approved ☐ Rejected ☐ Other \_\_\_\_\_

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_

Print Name \_\_\_\_\_ Customer Tracking No. (optional) \_\_\_\_\_

Quality Synthetic Rubber  
Computer Controlled Analysis of Tooling  
10-30-2017

Mold Number: 2660

Part Number: 7158-3084-40

Inspector : ALAN KRAVETZ

Drawing/Rev Level: 97BG-10C930-JA/G1

Dim #	Specifications	+/-	Cav# 1	Cav# 2	Cav# 3	Cav# 4	Cav# 5
1	0.20	+0.00/-0.10	0.185	0.161	0.182	0.138	1.740
2	5.20	0.30	5.242	5.236	5.188	5.230	5.204
3	3.30	0.05	3.340	3.342	3.332	3.323	3.343
4	9.40	0.20	9.358	9.380	9.396	9.389	9.387
5	1.00	0.3	0.991	0.995	0.988	0.988	0.990
6	9.80	0.05	9.767	9.777	9.757	9.757	9.758
7	Ø 8.30	+0.10/-0.00	8.332	8.325	8.317	8.339	8.348
8	6.30	0.3	6.287	6.301	6.285	6.279	6.301
9	5.70	+0.1/0.0	5.729	5.742	5.724	5.725	5.742
10	YAZAKI MARK H=0.2		OK	OK	OK	OK	OK
11	CAVITY No. & MOLDING No.		OK	OK	OK	OK	OK



## ANNUAL TESTING

### LABORATORY MATERIAL TEST REPORT

serial no.: 11131715

CUSTOMER	: Yazaki	COMPOUND	: A5002
PART NO.	: 7158-3084-40	LOT NO.	: 7H0534
PART NAME	: CABLE SEAL	MATR'L.	: SILICONE
TEST DATE	: 9-22-17	SPEC. NO.:	: ESB-M2D280-A2

TYPE OF TEST	/ SPECIFICATION	/ TEST RESULTS
<b>ORIGINAL PROPERTIES, ASTM D2240, D412, D624</b>		
HARDNESS, SHORE A,	45 TO 55	51
TENSILE STRENGTH, DIE-C, PSI	798 MIN.	989
ELONGATION, %	300 MIN.	645
TEAR RESISTANCE, DIE-B, PPI	50 MIN.	137
DENSITY, ASTM D-297, g/cm <sup>3</sup>	1.18 -1.42	1.32 *
<b>HEAT AGING, ASTM D865, 70 h @ 232 C</b>		
HARDNESS CHANGE, pts.	45 TO 70	51
TENSILE STRENGTH, DIE-C, PSI	435 MIN.	571
ELONGATION, %	150 MIN.	413
<b>FLUID RESISTANCE, ASTM D-471, IRM 903 OIL, 70 h @ 150 C</b>		
HARDNESS CHANGE, pts.	-25 MAX.	-19
TENSILE STRENGTH, DIE-C, PSI	276 MIN.	554
ELONGATION, %	175 MIN.	312
VOLUME CHANGE, %	+50 MAX.	+42
<b>COMPRESSION SET, ASTM D-395, METHOD B, 22 h @ 175 C</b>		
COMPRESSION SET, %	50 MAX.	13

\* = MEASUREMENT UNCERTAINTY OF  $\pm 0.00449$  @ APPROXIMATELY 95% CONFIDENCE LEVEL USING A COVERAGE FACTOR OF K=2.

Approved by Richard Rybka  
Richard Rybka, Technical Manager

Date: November 13, 2017

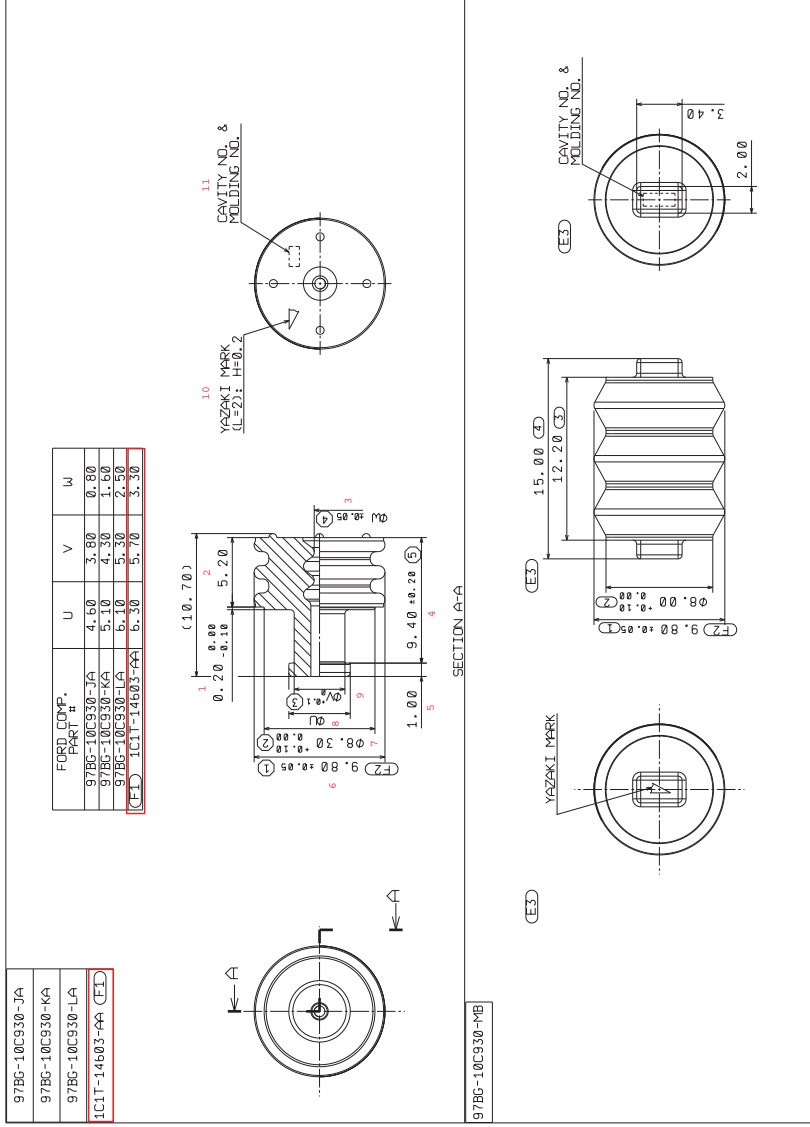
QUALITY SYNTHETIC RUBBER, INC. CERTIFIES THAT THIS MATERIAL HAS BEEN TESTED IN ACCORDANCE WITH ALL NOTED TEST METHODS AND THAT THE RESULTS OBTAINED MEET SPECIFICATION REQUIREMENTS UNLESS OTHERWISE NOTED ON THIS REPORT. THE INFORMATION CONTAINED HEREIN APPLIES TO THE SPECIFIC LOT OF MATERIAL NOTED ABOVE. NO WARRANTY OF ANY KIND IS HEREIN CONSTRUED OR IMPLIED. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF QUALITY SYNTHETIC RUBBER, INC.

APPLICABLE COMPONENTS			APPLICABLE WIRE SIZES		
ITEM DESCRIPTION	COLOR/ PLATING	FORD COMP. PART #	YAZAKI COMP. PART #	MATERIAL/SPEC. #	WEIGHT
6, 3 WIRE SEAL (S)	RED	97BG-10C930-JA	7158-3081-50	SILICONE RUBBER / N/A	0.48
6, 3 WIRE SEAL (M)	BLUE	97BG-10C930-KA	7158-3082-90	SILICONE RUBBER / N/A	0.47
6, 3 WIRE SEAL (L)	BLACK	97BG-10C930-LA	7158-3083-00	SILICONE RUBBER / N/A	0.46
6, 3 WIRE SEAL (XL)	LIGHT GREY	1C1T-14603-AA	7158-3084-40	SILICONE RUBBER / N/A	0.46
6, 3 BLIND PLUG	GREEN	97BG-10C930-MB	7158-3080-60	SILICONE RUBBER / N/A	0.98
6, 3 UP TERMINAL (M) (S)	TIN	97BG-14421-CEA	7114-4140-02	COPPER ALLOY / N/A	
6, 3 UP TERMINAL (M) (M)	TIN	97BG-14421-CFA	7114-4141-02	COPPER ALLOY / N/A	
6, 3 UP TERMINAL (M) (L)	TIN	97BG-14421-CFA	7114-4142-02	COPPER ALLOY / N/A	
6, 3 UP TERMINAL (F) (S)	TIN	97BG-14474-CEA	7116-4140-02	COPPER ALLOY / N/A	
6, 3 UP TERMINAL (F) (M)	TIN	97BG-14474-CEA	7116-4141-02	COPPER ALLOY / N/A	
6, 3 UP TERMINAL (F) (L)	TIN	97BG-14474-CFA	7116-4142-02	COPPER ALLOY / N/A	

NOTES:

- THIS PART IS BLACK BOX DESIGN.
- PART MUST BE FREE OF FLASH AND IMPERFECTIONS THAT MAY AFFECT FUNCTION OR FIT OF THE PART.
- GENERAL TOLERANCES ±0.30 mm
- DIMENSIONS IN PARANTHESES ARE FOR REFERENCE.
- FOR ENGINEERING APPROVAL REQUIRED FOR ALL SOURCING AND TOOLING OF THIS PART.
- FOR ENGINEERING APPROVED SOURCE SEE ENGINEERING RELEASE.
- ENGINEERING APPROVAL OF SAMPLE FROM EACH SUPPLIER IS REQUIRED PRIOR TO AUTHORIZATION OF PART PRODUCTION.
- CHANGES TO DESIGN OR PRODUCTION OF THIS PART PREVIOUSLY Y APPROVED FOR PART PRODUCTION REQUIRES PRIOR ENGINEERING APPROVAL.
- PART MUST COMPLY WITH MATERIAL CONTROL BLACK/BLACK GREY BOX PROGRAM.
- WSS-M9P23-B.

CFZ



97BG-10C930-JA
97BG-10C930-KA
97BG-10C930-LA
1C1T-14603-AA

FORD COMP. PART #	U	V	W
97BG-10C930-JA	4.50	3.80	0.80
97BG-10C930-KA	5.10	4.30	1.50
97BG-10C930-LA	6.10	5.30	2.30
1C1T-14603-AA	6.30	5.10	3.30

97BG-10C930-JA

97BG-10C930-KA

97BG-10C930-LA

1C1T-14603-AA

97BG-10C930-MB

ISOMETRIC VIEW  
(SCALE 1:1)

ORIGINATOR	CHECKER	ENGR APP	MATL APP
EE00-1-1054609-000 (P)	960315	CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1065926-000 (P)	960520	CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1065983-003 (P)	970313	CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1076124-000 (P)	970804	CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1076124-000 (P)	970804	CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER	ENGINEER	
EE00-1-1097777-005 ( )		CAD: Y	
EDS-YAZAKI	ENGINEER		