

**Australian/New Zealand
Certification Scheme for**

EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT

ANZEx Scheme

Certificate of Conformity

Certificate No.: ANZEx 03.4083X	Issue No.: 1	Date of Issue: 8 November 2009
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Certificate Holder: CCG Cable Terminations (PTY) LTD
33 – 37 Forge Road
Spartan Industrial Area, Kempton Park 1619
SOUTH AFRICA

Electrical Apparatus: E1EX, D1EX, A2EX and Ex Corrosion Guard Ranges of Cable Glands

Type of Protection: Ex d, Ex e and DIP

Marking Code: ANZEx 03.4083X
Ex d IIC / Ex e II
DIP A21 IP66 / IP68 (2m)

Manufacturing Location(s): CCG Cable Terminations (PTY) LTD
33 - 37 Forge Rd
Spartan Industrial Area, Kempton Park 1619
SOUTH AFRICA

 <p>ABN 06 098 886 563</p>	<p>Certificate issued by</p> <p><i>ITACS Pty. Ltd.</i> <i>4-6 Second Street SA 5007 Australia</i> <i>PO Box 300 Hindmarsh SA 5007 Australia</i> <i>Phone: +61 8 8346 8680 Fax: +61 8 8346 7072</i> <i>Email: itacs@itacslab.com</i></p>	 <p>Accreditation by the Joint Accreditation System of Australia and New Zealand</p> <p>Acc No. Z2870404AA www.jas-anz.com.au/register</p>
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*This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1:2008***

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

AS/NZS 60079-0: 2000	Electrical apparatus for explosive gas atmospheres – Part 0: General requirements
AS/NZS 60079-1: 2002	Electrical apparatus for explosive gas atmospheres – Part 1: Flameproof enclosures "d"
AS/NZS 60079-7: 2001	Electrical apparatus for explosive gas atmospheres – Part 7: Increased safety "e"
AS/NZS 61241: 1999	Electrical apparatus for use in the presence of combustible dust – Part 1.1: Electrical apparatus protected by enclosures and surface temperature limitation – Specification for apparatus
AS 1939:1990	Degrees of protection by enclosures of electrical equipment (IP Code)

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above. Attention is drawn to the fact that the above Standards have been superseded.*

TEST & ASSESSMENT REPORTS:

The equipment listed has successfully met the examination and test requirements as recorded in

Test Report No. and Issuing Body: **ITACS TR 5111**
Quality Assessment Report No. and Issuing Body: **IECEX QAR, ITACS - AU/ITA/QAR08.0002/01**

File Reference: **ANZ Ex 03.4083X-1**



Signed for and on behalf of issuing body

Certification Authority

8 November 2009

Position

Date of Issue

This certificate and schedule shall not be reproduced except in full
This certificate is not transferable and remains the property of the issuing body
and must be returned in the event of it being revoked or not renewed.

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Schedule

EQUIPMENT:

The E1EX, D1EX, A2EX and “Ex corrosion guard” ranges of cable glands are suitable for inserting circular cables into enclosures having threaded entries, as appropriate for the type of protection. The glands may be utilized with a locknut for increased safety / Dust ignition proof applications only.

The ranges of glands are as follows:

The ‘E1EX’ range of cable glands for armoured cables each comprises of an inner with a washer (metric only), body, front inner seal, an armour cone, an armour compression element, a rear seal with skid ring and a seal compression nut. The metallic parts are manufactured from brass (nickel plated), stainless steel or bronze. The glands are available with Metric (M16 x 1.5 to M75 x 1.5 to M80 x 2.0 to M100 x 2.0) or NPT (1/2” to 3”) entry threads.

Issue 1: Additional size glands were added under issue 1 with Metric (M115 x 2.0 to M130 x 2.0)

The ‘D1EX’ range of cable glands for armoured cables each comprises of an inner with a washer (metric only), inner seal, an armour cone, an armour compression element, and a seal / armour compression nut. The metallic parts are manufactured from brass (nickel plated), stainless steel or bronze. The glands are available with Metric (M16 x 1.5 to M75 x 1.5 to M80 x 2.0 to M100 x 2.0) or NPT (1/2” to 3”) entry threads.

The ‘A2EX’ range of cable glands for un-armoured cables each comprises of an inner with a washer (metric only), inner seal, seal compression element, outer seal with skid ring and a compression nut. The metallic parts are manufactured from brass (nickel plated), stainless steel or bronze. The glands are available with Metric (M16 x 1.5 to M75 x 1.5) or NPT (1/2” to 3”) entry threads.

The ‘Ex corrosion guard’ range of cable glands for armoured cables each comprises of an inner with a washer, inner seal with skid ring, an armour cone, an armour compression element and the moulded corrosion guard body with skid ring and moulded outer nut. The metallic parts are manufactured from brass (nickel plated), stainless steel or bronze. The glands are available with Metric (M16 x 1.5 to M75 x 1.5 to M80 x 2.0 to M100 x 2.0) entry threads.

Note: The non metallic screw on corrosion guard provides corrosion protection to the metallic gland and therefore does not form an essential part of the explosion protection.

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The glands are marked with the certification information by means of stamping or laser etching. The full ranges of cable glands are shown in the following schedule.

The models listed in Table 1, 2, 3, 4, 5, 6 and 7 are covered by this certificate.

Table 1 – E1EX Metric Range

Gland Size Ref	Entry Thread		Inner Sheath Diameter		Outer Sheath Diameter		Armouring Wire Diameter	
	Diameter (mm)	Length (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
00-16ss	M16 x 1.5	15.0	3.0	8.0	8.0	13.5	0.2	1.25
00-20ss	M20 x 1.5	15.0	3.0	8.0	8.0	13.5	0.2	1.25
0-20s	M20 x 1.5	15.0	7.0	12.0	11.5	16.0	0.2	1.25
1-20	M20 x 1.5	15.0	9.0	15.5	14.5	21.0	0.2	1.25
2-25	M25 x 1.5	15.0	14.0	20.5	20.5	27.0	0.2	1.6
3-32	M32 x 1.5	15.0	19.0	26.5	26.5	33.5	0.2	2.0
4-40	M40 x 1.5	20.0	26.0	34.5	33.0	43.0	0.3	2.0
5-50	M50 x 1.5	20.0	34.0	44.5	42.5	52.5	0.4	2.5
6-63	M63 x 1.5	20.0	44.0	57.0	52.5	65.5	0.4	2.5
7-75	M75 x 1.5	20.0	56.0	68.0	65.5	78.0	0.4	3.0
8-80	M80 x 2.0	25.0	68.0	74.0	78.0	82.0	2.5	3.0
9-90	M90 x 2.0	25.0	74.0	82.0	82.0	91.0	3.0	3.5
10-100	M100 x 2.0	25.0	81.0	91.0	91.0	100	3.0	3.5

Issue 1 addition:

Gland Size Ref	Entry Thread		Inner Sheath Diameter (mm)		Outer Sheath Diameter (mm)		Armouring Wire Diameter (mm)	
	Diameter	Length (min)(mm)	Min	Max	Min	Max	Min	Max
11-115	M115 x 2.0	20	86	98	100	114	3	4
12-120	M120 x 2.0	20	95	103	103	118	3	4
13-130	M130 x 2.0	20	100	115	113	124	3	4

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Table 2 – E1EX NPT Range

Gland Size Ref	Entry Thread		Inner Sheath Diameter		Outer Sheath Diameter		Armouring Wire Diameter	
	Diameter (inches)	Length (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
00-20ss	1/2 : 14 TPI	15	3.0	8.0	8.0	13.5	0.2	1.25
0-20s	1/2 : 14 TPI	15	7.0	12.0	11.5	16.0	0.2	1.25
1-20	1/2 : 14 TPI	15	9.0	15.5	14.5	21.0	0.2	1.25
1-20	3/4 : 14 TPI	15	9.0	15.5	14.5	21.0	0.2	1.25
2-25	3/4 : 14 TPI	15	14.0	20.5	20.5	27.0	0.2	1.6
2-25	1 : 11.5 TPI	19	14.0	20.5	20.5	27.0	0.2	1.6
3-32	1 : 11.5 TPI	19	19.0	26.5	26.5	33.5	0.2	2.0
3-32	1 1/4: 11.5 TPI	19	19.0	26.5	26.5	33.5	0.2	2.0
4-40	1 1/4: 11.5 TPI	19	26.0	34.5	33.0	43.0	0.3	2.0
4-40	1 1/2: 11.5 TPI	21	26.0	34.5	33.0	43.0	0.3	2.0
5-50	1 1/2: 11.5 TPI	21	34.0	44.5	42.5	52.5	0.4	2.5
5-50	2 : 11.5 TPI	21	34.0	44.5	42.5	52.5	0.4	2.5
6-63	2 : 11.5 TPI	21	44.0	57.0	52.5	65.5	0.4	2.5
6-63	2 1/2: 8 TPI	30	44.0	57.0	52.5	65.5	0.4	2.5
7-75	2 1/2: 8 TPI	30	56.0	68.0	65.5	78.0	0.4	3.0
7-75	3 : 8 TPI	32	56.0	68.0	65.5	78.0	0.4	3.0

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Table 3 – EX Corrosion Guard Range

Gland Size Ref	Entry Thread		Inner Sheath Diameter		Outer Sheath Diameter		Armouring Wire Diameter	
	Diameter (mm)	Length (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
00-16ss	M16 x 1.5	15.0	3.0	8.0	8.0	13.0	0.2	1.25
00-20ss	M20 x 1.5	15.0	3.0	8.0	8.0	13.0	0.2	1.25
0-20s	M20 x 1.5	15.0	7.0	12.0	11.5	16.0	0.2	1.25
1-20	M20 x 1.5	15.0	9.0	14.5	14.5	21.0	0.2	1.25
2-25	M25 x 1.5	15.0	14.0	20.0	20.5	27.0	0.2	1.6
3-32	M32 x 1.5	15.0	19.0	26.5	26.5	33.5	0.2	2.0
4-40	M40 x 1.5	20.0	26.0	32.5	33.0	43.0	0.4	2.5
5-50	M50 x 1.5	20.0	34.0	44.5	42.5	52.5	0.4	2.5
6-63	M63 x 1.5	20.0	44.0	57.0	52.0	65.5	0.4	2.5
7-75	M75 x 1.5	20.0	56.0	68.0	65.0	78.0	0.4	3.0
8-80	M80 x 2.0	25.0	68.0	74.0	78.0	82.0	2.5	3.0
9-90	M90 x 2.0	25.0	74.0	82.0	82.0	91.0	3.0	3.5
10-100	M100 x 2.0	25.0	81.0	91.0	91.0	100	3.0	3.5

Table 4 – D1EX Metric Range

Gland Size Ref	Entry Thread		Inner Sheath Diameter		Outer Sheath Diameter	Armouring Wire Diameter	
	Diameter (mm)	Length (mm)	Min (mm)	Max (mm)	Max (mm)	Min (mm)	Max (mm)
00-16ss	M16 x 1.5	15.0	3.0	8.0	13.5	0.2	1.25
00-20ss	M20 x 1.5	15.0	3.0	8.0	13.5	0.2	1.25
0-20s	M20 x 1.5	15.0	7.0	12.0	16.0	0.2	1.25
1-20	M20 x 1.5	15.0	9.0	15.5	21.0	0.2	1.25
2-25	M25 x 1.5	15.0	14.0	20.5	27.0	0.2	1.6

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Gland Size Ref	Entry Thread		Inner Sheath Diameter		Outer Sheath Diameter	Armouring Wire Diameter	
	Diameter (mm)	Length (mm)	Min (mm)	Max (mm)	Max (mm)	Min (mm)	Max (mm)
3-32	M32 x 1.5	15.0	19.0	26.5	33.5	0.2	2.0
4-40	M40 x 1.5	20.0	26.0	34.5	43.0	0.3	2.0
5-50	M50 x 1.5	20.0	34.0	44.5	52.5	0.4	2.5
6-63	M63 x 1.5	20.0	44.0	57.0	65.5	0.4	2.5
7-75	M75 x 1.5	20.0	56.0	68.0	78.0	0.4	3.0
8-80	M80 x 2.0	25.0	68.0	74.0	82.0	2.5	3.0
9-90	M90 x 2.0	25.0	74.0	82.0	91.0	3.0	3.5
10-100	M100 x 2.0	25.0	81.0	91.0	100	3.0	3.5

Table 5 – D1EX NPT Range

Gland Size Ref	Entry Thread		Inner Sheath Diameter		Armouring Wire Diameter	
	Diameter (inches)	Length (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
00-20ss	1/2 : 14 TPI	15.0	3.0	8.0	0.2	1.25
0-20s	1/2 : 14 TPI	15.0	7.0	12.0	0.2	1.25
1-20	1/2 : 14 TPI	15.0	9.0	15.5	0.2	1.25
1-20	3/4 : 14 TPI	15.0	9.0	15.5	0.2	1.25
2-25	3/4 : 14 TPI	15.0	14.0	20.5	0.2	1.6
2-25	1 : 11.5 TPI	19.0	14.0	20.5	0.2	1.6
3-32	1 : 11.5 TPI	19.0	19.0	26.5	0.2	2.0
3-32	1 1/4: 11.5 TPI	19.0	19.0	26.5	0.2	2.0
4-40	1 1/4: 11.5 TPI	19.0	26.0	34.5	0.3	2.0
4-40	1 1/2: 11.5 TPI	21.0	26.0	34.5	0.3	2.0
5-50	1 1/2: 11.5 TPI	21.0	34.0	44.5	0.4	2.5
5-50	2 : 11.5 TPI	21.0	34.0	44.5	0.4	2.5
6-63	2 : 11.5 TPI	21.0	44.0	57.0	0.4	2.5

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Gland Size Ref	Entry Thread		Inner Sheath Diameter		Armouring Wire Diameter	
	Diameter (inches)	Length (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
6-63	2 1/2: 8 TPI	30.0	44.0	57.0	0.4	2.5
7-75	2 1/2: 8 TPI	30.0	56.0	68.0	0.4	3.0
7-75	3 : 8 TPI	32.0	56.0	68.0	0.4	3.0

Table 6 – A2EX Metric Range

Gland Size Ref	Entry Thread		Inner Sheath Diameter	
	Diameter (mm)	Length (mm)	Min (mm)	Max (mm)
0-16ss	M16 x 1.5	15.0	3.0	8.0
0-20ss	M20 x 1.5	15.0	3.0	8.0
0-20s	M20 x 1.5	15.0	7.0	12.0
1-20	M20 x 1.5	15.0	9.0	15.5
2-25	M25 x 1.5	15.0	14.0	20.5
3-32	M32 x 1.5	15.0	19.0	26.5
4-40	M40 x 1.5	20.0	26.0	34.5
5-50	M50 x 1.5	20.0	34.0	44.5
6-63	M63 x 1.5	20.0	44.0	57.0
7-75	M75 x 1.5	20.0	56.0	68.0

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Table 7 – A2EX NPT Range

Gland Size Ref	Entry Thread		Inner Sheath Diameter	
	Diameter (inches)	Length (mm)	Min (mm)	Max (mm)
00-20ss	1/2 : 14 TPI	15.0	3.0	8.0
0-20s	1/2 : 14 TPI	15.0	7.0	12.0
1-20	1/2 : 14 TPI	15.0	9.0	15.5
1-20	3/4 : 14 TPI	15.0	9.0	15.5
2-25	3/4 : 14 TPI	15.0	14.0	20.5
2-25	1 : 11.5 TPI	19.0	14.0	20.5
3-32	1 : 11.5 TPI	19.0	19.0	26.5
3-32	1 1/4 : 11.5 TPI	19.0	19.0	26.5
4-40	1 1/4 : 11.5 TPI	19.0	26.0	34.5
4-40	1 1/2 : 11.5 TPI	21.0	26.0	34.5
5-50	1 1/2 : 11.5 TPI	21.0	34.0	44.5
5-50	2 : 11.5 TPI	21.0	34.0	44.5
6-63	2 : 11.5 TPI	21.0	44.0	57.0
6-63	2 1/2 : 8 TPI	30.0	44.0	57.0
7-75	2 1/2 : 8 TPI	30.0	56.0	68.0
7-75	3 : 8 TPI	32.0	56.0	68.0

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VARIATIONS COVERED BY ISSUE 1 OF THIS CERTIFICATE:

Issue 1 of this certificate covers the addition of E1Ex 11, 12 and 13 to the range of glands covered, as detailed in the following Table.

Gland Size Ref	Entry Thread		Inner Sheath Diameter (mm)		Outer Sheath Diameter (mm)		Armouring Wire Diameter (mm)	
	Diameter	Length (mm)	Min	Max	Min	Max	Min	Max
11-115	M115 x 2.0	20	86	98	100	114	3	4
12-120	M120 x 2.0	20	95	103	103	118	3	4
13-130	M130 x 2.0	20	100	115	113	124	3	4

CONDITIONS OF CERTIFICATION:

The following conditions apply to all Issues of this Certificate:

1. It is a condition of safe use that the cable gland sizes 00, 0, 1, 2, 3, 4, 5, 6 and 8 are not permitted for installation with Ex d IIC apparatus that have a volume in excess of 2000cm³.
2. It is a condition of safe use that the cable glands shall only be installed in a temperature range of -20°C to +80°C.
3. The option of using the gland in a non-threaded hole secured with the locknut is only applicable to increased safety or Dust ignition proof applications.

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DRAWINGS COVERED BY ISSUE 0 OF THIS CERTIFICATE:

Drawing No.	Drawing Title	Issue	Date
A2EX Exde Cable Gland (assembly)			
E.00.00.25.000/A	A2EX Exde Cable gland	7	01/06/09
E.00.00.25.000/B	A2EX Exde CABLE GLAND	6	14/04/08
E.00.00.25.000/C	A2EX Exde CABLE GLAND NPT	5	11/04/08
E.00.00.25.000/D	A2EX Exde CABLE GLAND NPT	4	11/04/08
E1EX Exde Cable Gland (assembly)			
E.00.00.26.000/A	E1EX Exde CABLE GLAND	9	24/06/09
E.00.00.26.000/B	E1EX Exde CABLE GLAND	6	10/11/08
E.00.00.26.000/C	E1EX Exde CABLE GLAND – NPT	7	01/06/09
E.00.00.26.000/D	E1EX Exde CABLE GLAND NPT	7	01/06/09
D1EX Exde Cable Gland (assembly)			
E.00.00.27.000/A	D1EX Exde Cable Gland	7	18/12/08
E.00.00.27.000/B	D1EX Exde CABLE GLAND	6	11/04/08
E.00.00.27.000/C	D1EX Exde CABLE GLAND NPT	6	18/12/08
E.00.00.27.000/D	D1EX Exde CABLE GLAND NPT	7	01/06/09
EXCG Exde Cable Gland (assembly)			
E.00.00.48.000/A	Exde CORROSION GUARD	9	01/06/09
E.00.00.48.000/B	Exde CORROSION GUARD	8	24/06/09
E.00.00.48.000/Body-Ass	EXCG BODY COMPONENTS	4	04/02/09
E1EX Cable Gland (assembly)			
052308 to 052310	E1EX GLAND ASSEMBLY	3	01/07/09
Marking			
100302	GLAND MARKING	5	12/10/09
Washer			
051900-03W	No. 00 TO No.10 D1EX, A2EX, E1EX WASHER	5	01/06/09

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Drawing No.	Drawing Title	Issue	Date
Sealing gasket			
054700-SG - 054710-SG	No. 00 to No. 10 EXCG GASKET	2	10/06/09
Sealing ring			
054700-SR - 054710-SR	No. "X" EXCG SEALING RING	3	17/06/09
Outer seal			
052300-OS - 052310-OS	NO. "X" E1EX, E1W & CW OUTER SEAL	2	21/07/08
054700-OS - 054710-OS	No. "X" EXCG OUTER SEAL	3	05/06/09
Inner			
052300-12 NPT-I - 052307-3-NPT-I	No. "X" E1EX, D1EX, EXCG & A2EX INNER (NPT)	1	01/06/09
052300-I - 052310-I	No. "X" E1EX, D1EX, EXCG & A2EX INNER	Orig	05/09/08
Body			
052300-B - 052310-B	No. "X" E1EX & EXCG BODY	1	01/06/09
Cone Ring			
052316-CR - 052310-CR	No. "X" E1EX, D1EX & EXCG Cone Ring	Orig	01/09/08
Cone			
052316-C - 052310-C	No. "X" E1EX, D1EX & EXCG CONE	1	01/05/09
Inner seal			
052300-IS - 052310-IS	No. "X" E1EX, A2EX, EXCG & D1EX INNER SEAL	1	21/07/08
Skid ring			
053700-SR - 053707-SR	No. "X" A2EX SKID RING	1	07/08/07
052300-SR - 052310-SR	No. "X" E1EX & EXCG SKID RING	1	07/08/07
Outer nut			
053700-O - 053707-O	No. "X" A2EX OUTER	1	22/07/08
051900-16-O - 051907-O	No. "X" D1EX OUTER	4	05/01/08
052316-O - 052310-O	No. 00 to 10 E1EX OUTER NUT	1	01/06/09
POSI grip cone			
053600-C - 053607-C	No. "X" A2EX & POSI GRIP CONE	1	22/07/08

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Drawing No.	Drawing Title	Issue	Date
Gripper seal			
053700-GS - 053707-GS	No. 00 to 7 A2EX GRIPPER SEAL	1	21/07/08
Lock nut			
052300-LN - 052310-LN	No. "X" LOCK NUT	Orig	17/07/09

DRAWINGS COVERED BY ISSUE 1 OF THIS CERTIFICATE:

Drawing No.	Drawing Title	Issue	Date
052311 - 052313-MATL	No.11 TO 13 E1EX Ex de GLAND MATERIAL	Original	2009/08/27
052311 - 052313	No."X" E1EX Ex de GLAND ASSEMBLY	Original	2009/08/26
052311 - 052313-MARKING	No.11 TO 13 E1EX Ex de GLAND MARKING	Original	2009/08/27
052311-B - 052313-B	No."X" E1EX BODY	Original	2009/08/26
052311-C - 052313-C	No."X" E1EX CONE	Original	2009/08/26
052311-CR - 052313-CR	No."X" E1EX CONE RING	Original	2009/08/26
052311-DS - 052313-DS	No."X" E1EX DISPLACEMENT SEAL	Original	2009/08/26
052311-I - 052313-I	No."X" E1EX, D1EX, EXCG & A2EX INNER	Original	2009/08/26
052311-OS - 052313-OS	No."X" E1EX, E1W & CW OUTER SEAL	Original	2009/08/26
052311-ON - 052313-ON	No."X" E1EX OUTER NUT	Original	2009/08/26
052311-LN - 052313-LN	No."X" LOCK NUT	Original	2009/08/26
052311-SG - 052313-SG	No."X" E1EX SEALING GASKET	Original	2009/08/26
052311-SR - 052313-SR	No."X" E1EX SKID RING	Original	2009/08/26