Mountain bicycle - S1000D Issue 4.0

S1000DBIKE-X1234-00040-00

Issue No. 002(00), 2023-02-01

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Responsible partner company

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Configuration

1 Product configuration

The product configuration shows current, associated, and historical product information for the end item part numbers contained in this publication. The products are listed byb PN class, which are defined as follows:

- "PRIME" - The PRIME is the current OEM's top-level part number and MFR code covered by this publication.
- "ALT" - The ALT represents an alternative to the PRIME for the same part. For example, this could be an airframe manufacturer's part number.
- "PREV" - The PREV represents a legacy part number and MFR code to the PRIME for the same part number that may still be supported.
- "OBS" - The OBS represents a part number and MFR code that is no longer supported but is included in this publication for historical reference.

Refer to the "List of suppliers" for MFR information.

Table 1 Product configuration

PN class	PN	MFR	Component name	Model
PRIME	123-1111	ZZZZZ	Product Five	
ALT	Z555-ZZZZ-55	ZZZZZ	Product Five	
ALT	R555-RRRR-55	RRRR	Product Five	
PREV	A555-5555-55	AAAAA		Model Five

2 Publication configuration

The publication configuration shows active or superseded configuration information about this publication. The publications are listed by Pub class, which are defined as follows:

- "PRIME" - The PRIME represents the active publication.
- "PREV" - The PREV represents the legacy publication to the PRIME publication.

Refer to the "List of suppliers" for MFR information.

Table 2 Publication configuration

Pub class	SNS/ATA	MFR	Publication number	Issue/Rev
PRIME	23-10-10	55555	CMMST-ZZZZZ-00001-00	Current
PREV	23-00-10	ZZZZZ		018

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Copyright statements

1 Copyright

2 Limitations of liability

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Administrative and legal statements

1 Docuneering Limited Product License Agreement

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Safety statements

1 Safety statements

WARNING

**The removal of the tire with the tire inflated is dangerous.
Make sure the tire is fully deflated before you remove the tire.**

WARNING

This is another warning.

CAUTION

You must keep the roller bearing with the related wheel. The roller bearings are not interchangable.

CAUTION

This is another caution.

Note 1
This is a note.

Note 2
This is another note.

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List of effective data modules

The listed documents are included in issue 002, dated 2023-02-01, of this publication.

C = Changed data module

N = New data module

Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Title page	S1000DBIKE-AAA-D00-00-00-00AA-001A-A		2022-12-31	1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Configuration	S1000DBIKE-AAA-D00-00-00-00AA-020A-A		2022-12-31	1	All
Copyright statements	S1000DBIKE-AAA-D00-00-00-00AA-021A-A		2022-12-31	1	All
Administrative and legal statements	S1000DBIKE-AAA-D00-00-00-00AA-023A-A		2022-12-31	1	All
Safety statements	S1000DBIKE-AAA-D00-00-00-00AA-012A-A		2022-12-31	1	All
Change record	S1000DBIKE-AAA-D00-00-00-00AA-00TA-A	C	2023-02-01	1	All
Technical standard record	S1000DBIKE-AAA-D00-00-00-00AA-008A-A		2022-12-31	1	All
Products cross-reference table	S1000DBIKE-AAA-D00-00-00-00AA-00PA-D		2008-08-01	2	All
Conditions cross-reference table	S1000DBIKE-AAA-D00-00-00-00AA-00QA-D		2008-08-01	2	All
Applicability cross-reference table	S1000DBIKE-AAA-D00-00-00-00AA-00WA-D		2008-08-01	1	All
Introduction	S1000DBIKE-AAA-D00-00-00-00AA-018A-A		2022-12-31	1	All
Section 1 – Bicycle	S1000DBIKE-AAA-D00-00-00-01AA-001A-A		2022-12-31	1	All
Mountain bicycle – Business rules	S1000DBIKE-AAA-D00-00-00-00AA-022A-D	C	2008-08-01	9	All

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Bicycle – Description of how it is made	S1000DBIKE-AAA-D00-00-00-00AA-041A-A	C	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Description of function	S1000DBIKE-AAA-D00-00-00-00AA-042A-A	N	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Description attributed to crew	S1000DBIKE-AAA-D00-00-00-00AA-043A-A	C	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Pre-operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-121A-A	C	2008-08-01	6	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Riding a bicycle	S1000DBIKE-AAA-D00-00-00-00AA-130A-A		2007-01-01	1	
Bicycle – Normal operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-131A-A	C	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Post-operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-151A-A	N	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Bicycle – Other procedures to clean	S1000DBIKE-AAA-D00-00-00-00AA-258A-A	C	2008-08-01	6	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Place on test stand	S1000DBIKE-AAA-D00-00-00-00AA-330A-A	C	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Standard repair procedures	S1000DBIKE-AAA-D00-00-00-00AA-663A-A		2008-08-01	13	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Illustrated Parts Data - IPD	S1000DBIKE-AAA-D00-00-00-00AA-941A-D		2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Time limits	S1000DBIKE-AAA-D05-10-00-00AA-000A-A	C	2008-08-01	1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Scheduled maintenance lists	S1000DBIKE-AAA-D05-20-00-00AA-000A-A		2008-08-01	12	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Bicycle – Scheduled maintenance checks	S1000DBIKE-AAA-D05-40-00-00AA-000A-A		2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Wheel – Description of how it is made	S1000DBIKE-AAA-DA0-00-00-00AA-041A-A	C	2008-08-01	7	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Inner tube – Remove and install a new item	S1000DBIKE-AAA-DA0-10-10-00AA-921A-A		2008-08-01	4	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Tire – Fill with air	S1000DBIKE-AAA-DA0-10-20-00AA-215A-A		2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Tire – Check pressure	S1000DBIKE-AAA-DA0-10-20-00AA-362B-A		2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Front wheel – Fault reports and isolation procedures	S1000DBIKE-AAA-DA0-10-20-00AA-400A-A		2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Tire – Remove and install a new item	S1000DBIKE-AAA-DA0-10-20-00AA-921A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Rear wheel – Detected fault	S1000DBIKE-AAA-DA0-20-00-00AA-412A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Rear wheel – Remove procedures	S1000DBIKE-AAA-DA0-20-00-00AA-520A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Brake system – Description of how it is made	S1000DBIKE-AAA-DA1-00-00-00AA-041A-A	2008-08-01	8	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Brake system – Manual test	S1000DBIKE-AAA-DA1-00-00-00AA-341A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Brake pads – Clean with rubbing alcohol	S1000DBIKE-AAA-DA1-10-00-00AA-251A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Steering – Description of how it is made	S1000DBIKE-AAA-DA2-00-00-00AA-041A-A	N	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Stem – Remove procedures	S1000DBIKE-AAA-DA2-10-00-00AA-520A-A	C	2008-08-01	4	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Stem – Install procedures	S1000DBIKE-AAA-DA2-10-00-00AA-720A-A	C	2008-08-01	7	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Handlebar – Remove procedures	S1000DBIKE-AAA-DA2-20-00-00AA-520A-A	N	2008-08-01	6	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Handlebar – Install procedures	S1000DBIKE-AAA-DA2-20-00-00AA-720A-A	C	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Headset – Description of how it is made	S1000DBIKE-AAA-DA2-30-00-00AA-041A-A		2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Headset – Remove procedures	S1000DBIKE-AAA-DA2-30-00-00AA-520A-A	N	2008-08-01	4	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Headset – Install procedures	S1000DBIKE-AAA-DA2-30-00-00AA-720A-A	C	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Frame – Description of how it is made	S1000DBIKE-AAA-DA3-00-00-00AA-041A-A		2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Horn – Isolated fault	S1000DBIKE-AAA-DA3-10-00-00AA-411A-A		2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Horn – Remove and install a new item	S1000DBIKE-AAA-DA3-10-00-00AA-921A-A		2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Drivetrain – Description of how it is made	S1000DBIKE-AAA-DA4-00-00-00AA-041A-A		2008-08-01	1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Chain – Oil	S1000DBIKE-AAA-DA4-10-00-00AA-241A-A	C	2008-08-01	9	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Chain – Clean with chain cleaning fluid	S1000DBIKE-AAA-DA4-10-00-00AA-251B-A		2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Drive train – Correlated fault	S1000DBIKE-AAA-DA4-10-00-00AA-414A-A		2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Gears – Description of how it is made	S1000DBIKE-AAA-DA5-00-00-00AA-041A-A		2008-08-01	1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Mechs – Description of how it is made	S1000DBIKE-AAA-DA5-10-00-00AA-041A-A		2008-08-01	5	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Hubs – Clean with degreasing agent	S1000DBIKE-AAA-DA5-20-00-00AA-251C-A	C	2008-08-01	5	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Shifters – Description of how it is made	S1000DBIKE-AAA-DA5-30-00-00AA-041A-A		2008-08-01	7	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Section 2 – Electrical Lighting System	S1000DBIKE-AAA-D00-00-00-02AA-001A-A		2022-12-31	1	All
Wiring data – Field description	S1000DLIGHTING-AAA-D00-00-00-00AA-029A-A		2008-08-01	1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Electrical system – Description of how it is made and its function	S1000DLIGHTING-AAA-D00-00-00-00AA-040A-A		2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Wiring – Equipment lists	S1000DLIGHTING-AAA-D00-00-00-00AA-056A-A	N	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Wiring – Wire list	S1000DLIGHTING-AAA-D00-00-00-00AA-057A-A	C	2008-08-01	8	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Wiring – Loom list	S1000DLIGHTING-AAA-D00-00-00-00AA-058A-A	C	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Lights – Manual test	S1000DLIGHTING-AAA-D00-00-00-00AA-341A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Lights – Observed fault	S1000DLIGHTING-AAA-D00-00-00-00AA-413A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Lighting – Assemble, install and connect procedures	S1000DLIGHTING-AAA-D00-00-00-00AA-700A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Lighting – Remove and install a new item	S1000DLIGHTING-AAA-D00-00-00-00AA-921A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Light system – Illustrated Parts Data - IPD	S1000DLIGHTING-AAA-D00-00-00-00AA-941A-D	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

Change record

The change record displays the issue history of the publication.

Issue number	Issue date	Issue number	Issue date
001	2022-12-31	002	2023-02-01

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Highlights

Issue 002

The listed changes are included in issue 002, dated 2023-02-01, of this publication.

Data module code	Reason for update
S1000DBIKE-AAA-D00-00-00-00AA-00TA-A	Up issue to 002

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List of abbreviations

Abbreviation	Definition
None	

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List of terms

Term	Definition
None	

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List of symbols

Symbol	Definition
None	

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Technical standard record

The following record confirms that this publication incorporates all technical changes necessitated by the following modifications listed below.

Mod No.	ESA 65
	ESA70
	ESA3690
	ESA7174
	DT28
	PA562
	PA569
	SE132
	TR20
	TR22
	TR23
Service bulletin	X4-A-00-21-00-05B-930A-A
	X4-A-00-21-00-06A-930A-A
	X4-A-00-22-00-11A-930A-A
	X4-A-00-23-00-05C-930A-A

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Table of contents

The listed documents are included in issue 002, dated 2023-02-01, of this publication.

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Bicycle – Description of function	S1000DBIKE-AAA-D00-00-00-00AA-042A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Description attributed to crew	S1000DBIKE-AAA-D00-00-00-00AA-043A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Pre-operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-121A-A	2008-08-01	6	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Riding a bicycle	S1000DBIKE-AAA-D00-00-00-00AA-130A-A	2007-01-01	1	
Bicycle – Normal operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-131A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Post-operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-151A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Other procedures to clean	S1000DBIKE-AAA-D00-00-00-00AA-258A-A	2008-08-01	6	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Place on test stand	S1000DBIKE-AAA-D00-00-00-00AA-330A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Bicycle – Standard repair procedures	S1000DBIKE-AAA-D00-00-00-00AA-663A-A	2008-08-01	13	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Illustrated Parts Data - IPD	S1000DBIKE-AAA-D00-00-00-00AA-941A-D	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Time limits	S1000DBIKE-AAA-D05-10-00-00AA-000A-A	2008-08-01	1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Scheduled maintenance lists	S1000DBIKE-AAA-D05-20-00-00AA-000A-A	2008-08-01	12	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Bicycle – Scheduled maintenance checks	S1000DBIKE-AAA-D05-40-00-00AA-000A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Wheel – Description of how it is made	S1000DBIKE-AAA-DA0-00-00-00AA-041A-A	2008-08-01	7	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Inner tube – Remove and install a new item	S1000DBIKE-AAA-DA0-10-10-00AA-921A-A	2008-08-01	4	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Tire – Fill with air	S1000DBIKE-AAA-DA0-10-20-00AA-215A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Tire – Check pressure	S1000DBIKE-AAA-DA0-10-20-00AA-362B-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Front wheel – Fault reports and isolation procedures	S1000DBIKE-AAA-DA0-10-20-00AA-400A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Tire – Remove and install a new item	S1000DBIKE-AAA-DA0-10-20-00AA-921A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Rear wheel – Detected fault	S1000DBIKE-AAA-DA0-20-00-00AA-412A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Rear wheel – Remove procedures	S1000DBIKE-AAA-DA0-20-00-00AA-520A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Brake system – Description of how it is made	S1000DBIKE-AAA-DA1-00-00-00AA-041A-A	2008-08-01	8	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Brake system – Manual test	S1000DBIKE-AAA-DA1-00-00-00AA-341A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Brake pads – Clean with rubbing alcohol	S1000DBIKE-AAA-DA1-10-00-00AA-251A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Steering – Description of how it is made	S1000DBIKE-AAA-DA2-00-00-00AA-041A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Stem – Remove procedures	S1000DBIKE-AAA-DA2-10-00-00AA-520A-A	2008-08-01	4	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Stem – Install procedures	S1000DBIKE-AAA-DA2-10-00-00AA-720A-A	2008-08-01	7	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Handlebar – Remove procedures	S1000DBIKE-AAA-DA2-20-00-00AA-520A-A	2008-08-01	6	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Handlebar – Install procedures	S1000DBIKE-AAA-DA2-20-00-00AA-720A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Headset – Description of how it is made	S1000DBIKE-AAA-DA2-30-00-00AA-041A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Headset – Remove procedures	S1000DBIKE-AAA-DA2-30-00-00AA-520A-A	2008-08-01	4	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Headset – Install procedures	S1000DBIKE-AAA-DA2-30-00-00AA-720A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Frame – Description of how it is made	S1000DBIKE-AAA-DA3-00-00-00AA-041A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Horn – Isolated fault	S1000DBIKE-AAA-DA3-10-00-00AA-411A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Horn – Remove and install a new item	S1000DBIKE-AAA-DA3-10-00-00AA-921A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Drivetrain – Description of how it is made	S1000DBIKE-AAA-DA4-00-00-00AA-041A-A	2008-08-01	1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

(Continued)

Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Chain – Oil	S1000DBIKE-AAA-DA4-10-00-00AA-241A-A	2008-08-01	9	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Chain – Clean with chain cleaning fluid	S1000DBIKE-AAA-DA4-10-00-00AA-251B-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Drive train – Correlated fault	S1000DBIKE-AAA-DA4-10-00-00AA-414A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Gears – Description of how it is made	S1000DBIKE-AAA-DA5-00-00-00AA-041A-A	2008-08-01	1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Mechs – Description of how it is made	S1000DBIKE-AAA-DA5-10-00-00AA-041A-A	2008-08-01	5	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Hubs – Clean with degreasing agent	S1000DBIKE-AAA-DA5-20-00-00AA-251C-A	2008-08-01	5	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Shifters – Description of how it is made	S1000DBIKE-AAA-DA5-30-00-00AA-041A-A	2008-08-01	7	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Section 2 – Electrical Lighting System	S1000DBIKE-AAA-D00-00-00-02AA-001A-A	2022-12-31	1	All

(Continued)

Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Wiring data – Field description	S1000DLIGHTING-AAA-D00-00-00-00AA-029A-A	2008-08-01	1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Electrical system – Description of how it is made and its function	S1000DLIGHTING-AAA-D00-00-00-00AA-040A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Wiring – Equipment lists	S1000DLIGHTING-AAA-D00-00-00-00AA-056A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Wiring – Wire list	S1000DLIGHTING-AAA-D00-00-00-00AA-057A-A	2008-08-01	8	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Wiring – Loom list	S1000DLIGHTING-AAA-D00-00-00-00AA-058A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Lights – Manual test	S1000DLIGHTING-AAA-D00-00-00-00AA-341A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Lights – Observed fault	S1000DLIGHTING-AAA-D00-00-00-00AA-413A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

(Continued)

Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Lighting – Assemble, install and connect procedures	S1000DLIGHTING-AAA-D00-00-00-00AA-700A-A	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Lighting – Remove and install a new item	S1000DLIGHTING-AAA-D00-00-00-00AA-921A-A	2008-08-01	2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Light system – Illustrated Parts Data - IPD	S1000DLIGHTING-AAA-D00-00-00-00AA-941A-D	2008-08-01	3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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List of applicable specifications and documentation

Technical publication	Title
	Local Disposal Procedures

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List of support equipment

Name	Identifiaction/ Reference	Manufacturer
8mm Allen wrench	BSK-TLST-001-08	KZ666
Chain cleaning fluid	LL-003	KZ222
Chain cleaning tool	BSK-TLST-001-03	KZ666
Clean dry cloth	BSK-TLST-001-12	KZ666
Extra firm hold hairspray	HSP-D001	HS111
Floor covering	PPP-001	KK999
Foot pump	BSK-TLST-001-05	KZ666
Marker pen	BSK-TLST-001-07	KZ666
Set of Allen wrenches	BSK-TLST-001-13	KZ666
Specialist toolset	BSK-TLST-001	KZ666
Sponge	BSK-TLST-001-11	KZ666
Stiff bristle brush	BSK-TLST-001-02	KZ666
Test stand	BSK-TLST-999-01	KZ666
Tire lever	BSK-TLST-001-04	KZ666
Tire pressure gauge	BSK-TLST-001-01	KZ666
Water hose	BSK-TLST-001-09	KZ666
Work stand	Stand-001	KZ555
Work stand	Stand-001	Bikey
Work stand	Stand-001	Stand

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List of supplies

Name	Identifiaction/ Reference	Manufacturer
Degreasing agent	LL-004	KZ222
Detergent A	BSK-TLST-023-14	KZ666
Detergent B	BSK-TLST-001-15	KZ666
Dry lube	LL-006	KZ222
Floor covering		
General grease	LL-005	KZ222
General lubricant	LL-001	KZ222
Rubbing alcohol	LL-002	KZ222
Wet lube	LL-007	KZ222

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List of spares

Name	Identifiaction/ Reference	Manufacturer
Brake cable hangar	BR-LVRS-002	KT444
Brake lever	BR-LVRS-001	KT444
Brake lever mount	BR-LVRS-001-01	KT444
Bulb	LIRUS-L1-11 CSN -- Fig Item 00A	KZ777
Conical expansion washer	St-001-05	KZ555
Dust seal	St-001-04	KZ555
Frame fork	St-001-02	KZ555
Handlebar	Hd-001	KZ555
Handlebar grips	Hd-001-01	KZ555
Handlebar plug	Hd-001-02	KZ555
Inner-tube	IT-001	KT222
Shifter lever	Sl-001	KZ555
Stem	St-001	KZ555
Stem bolt	St-001-01	KZ555
Tire	TIRES-010101	KT666
Upper bearing cup	St-001-03	KZ555

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List of illustrations

(Continued)

Data module code	Figure	Title
	Fig 2	Rear derailleur
S1000DBIKE-AAA-DA5-20-00-00AA-251C-A	Fig 1	Removing the axle
S1000DBIKE-AAA-DA5-30-00-00AA-041A-A	Fig 1	Thumb shifter index type
	Fig 2	Unscrew wingnut
	Fig 3	Loosen the nut
	Fig 4	Loosen the shifter clamp bolt
S1000DLIGHTING-AAA-D00-00-00-00AA-040A-A	Fig 1	Lighting system
S1000DLIGHTING-AAA-D00-00-00-00AA-941A-D	Fig 1	Light system

Product cross-reference table

Table 1 List of product instances

Identifier	Type	Value
Product instance		
serialno	Product attribute	1B070643
model	Product attribute	Brook trekker
version	Product attribute	Mk9
versrank	Product attribute	2
SB-S001	Condition	Pre
Product instance		
serialno	Product attribute	1B070644
model	Product attribute	Brook trekker
version	Product attribute	Mk9
versrank	Product attribute	1
SB-S001	Condition	Post
Product instance		
serialno	Product attribute	1B070701
model	Product attribute	Mountain storm
version	Product attribute	Mk1
versrank	Product attribute	1
SB-S001	Condition	Pre

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Condition cross-reference table

Table 1 Common types of conditions

Name	Description	Data type	Values
Id		**Value pattern**	
Service bulletin SB	Generic service bulletin type	String	Pre|Post

Table 2 Conditions

Name	Condition type	Description	Data type	References	Dependency
Display name (Id)	**Alias**	**Prompt**	**Value pattern**	**Condition ref group**	
Service bulletin S001 - Chain guard (SB-S001)	SB	Service bulletin S001 for the installation of the chain guard	String		

Table 3 Incorporation

Id	Issue No.	References	Date	Status
SB-S001		S1000DBIKE-AAA-DA0-20-00-00AA-520A-A	2007-07-31	Incorporated

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Applicability cross-reference table

Conditions cross-reference table: S1000DBIKE-AAA-D00-00-00-00AA-00QA-D
Products cross-reference table: S1000DBIKE-AAA-D00-00-00-00AA-00PA-D

Table 1 Product attribute list

Name Display name (Id)	Description	Data type Value pattern	Values
Serial number SN (serialno)	Serial number etched on the frame	String	
Type (type)	Type of bike	String	
Model (model)	Model of the bike	String .*	Brook trekker|Mountain storm
Version (version)	Version of the bike	String Mk(1|9)	Mk1|Mk9
Version rank series (versrank)	Version rank	String \d	1~3

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Introduction

1 Introduction goes here...

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Section 1

Bicycle

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Mountain bicycle

Business rules

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List of tables

References

Table 1 References

Data module / Technical publication	Title
None	

Business rules exchange

Context rules

Table 2 Context rules

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
1	//dmAddress/dmIdent/dmCode@modelIdentCode		
	Bike model identification	S1000DBIKE	S1000D Bike platform
		S1000DLIGHTING	S1000D Bike light system
2	//dmAddress/dmIdent/dmCode@systemCode		
	Systems (Bike specific SNS)	D00~D09	
		DA0~DA9	

Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
3	//dmAddress/dmIdent/dmCode@subSystemCode		
	Subsystems (Bike specific SNS)	0~9	
4	//dmAddress/dmIdent/dmCode@subSubystemCode		
	Subsubsystems	0~9	
5	//dmAddress/dmIdent/dmCode@assyCode		
	Units of assembly	00~99	
6	//dmAddress/dmIdent/dmCode@infoCode		
	Bike information codes	000	In accordance with Issue 2.3
		022	In accordance with Issue 2.3
		029	In accordance with Issue 2.3
		040	In accordance with Issue 2.3
		041	In accordance with Issue 2.3
		042	In accordance with Issue 2.3
		043	In accordance with Issue 2.3
		056	In accordance with Issue 2.3
		057	In accordance with Issue 2.3
		058	In accordance with Issue 2.3
		121	In accordance with Issue 2.3
		131	In accordance with Issue 2.3
		151	In accordance with Issue 2.3
		215	In accordance with Issue 2.3
		241	In accordance with Issue 2.3
		251	In accordance with Issue 2.3
		258	In accordance with Issue 2.3
		330	In accordance with Issue 2.3
		341	In accordance with Issue 2.3
		362	In accordance with Issue 2.3
		400	In accordance with Issue 2.3
		411	In accordance with Issue 2.3
		412	In accordance with Issue 2.3
		413	In accordance with Issue 2.3
		414	In accordance with Issue 2.3
		520	In accordance with Issue 2.3

Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
		663	In accordance with Issue 2.3
		700	In accordance with Issue 2.3
		720	In accordance with Issue 2.3
		921	In accordance with Issue 2.3
		941	In accordance with Issue 2.3
7	[0] //descendant-or-self::orderedList[not(ancestor-or-self::description)]		
	Sequential (numbered) lists not allowed unless in descriptive data modules		
8	[0] //note[ancestor-or-self::warning]		
	Notes are not allowed in Warnings		
9	[0] //warning/orderedList		
	Ordered lists are not allowed in Warnings		
10	[0] //warning/definitionList		
	Definition lists are not allowed in Warnings		
11	[0] //warning/randomList/listItem/randomList		
	Random lists must not be nested within Warnings		
12	[0] //warning/randomList/title		
	Random list titles are not allowed in Warnings		
13	[0] //note[ancestor-or-self::caution]		
	Notes are not allowed in Cautions		
14	[0] //caution/orderedList		
	Ordered lists are not allowed in Cautions		
15	[0] //caution/definitionList		
	Definition lists are not allowed in Cautions		
16	[0] //caution/randomList/listItem/randomList		
	Random lists must not be nested within Cautions		

Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
17	[0] //caution/randomList/title		
	Random list titles are not allowed in Cautions		
18	//@accessPanelTypeValue		
	Type of access panel	accpnl01	Access is a door
		accpnl02	Access is a panel
		accpnl03	Access is an electrical panel
19	//acronym/@acronymtype		
	Type of acronym or abbreviation	at01	Acronym (Candidate for list of abbreviations) - Default value
		at02	Term (Candidate for list of terms)
		at03	Symbol (Candidate for list of symbols)
		at04	Spec (Candidate for list of applicable specs)
20	//dialog/@cancelCaption		
	Caption for dialog cancel function	ca01	Sets the caption to "CANCEL"
		ca02	Sets the caption to "ABORT"
		ca03	Sets the caption to "NO"
		ca04	Sets the caption to "END"
		ca05	Sets the caption to "QUIT"
21	//security/@securityClassification		
	Security classification	01	1 (lowest level of security classification, eg Unclassified)
22	//security/@commercialClassification		
	Commercial security classification	cc51	Open
23	//caption/@colour		
	Caption color	co00	None
		co01	Green
		co02	Amber
		co03	Yellow
		co04	Red
		co07	White
		co08	Grey
		co09	Clear - Default value

Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
		co51	Blue (used on Bike Computer Display)
24	[1] //commentPriority/@commentPriorityCode		
	Priority level of a comment	cp01	Routine
		cp02	Emergency
		cp03	Safety critical
25	[1] //crewMember/@crewMembertype		
	Type of crew member required for drill or procedural step	cm01	All
		cm51	Bike rider
		cm52	Bike technician
26	[0] //crewDrill/@drillType		
	Types of aircrew drills do not apply to the BikeDMs		
27	//emphasis/@emphasisType		
	Type of emphasis	em01	Bold - Default value
		em02	Italic (only for legacy data, see Chap 3.9.1)
		em03	Underline (only for legacy data, see Chap 3.9.1)
		em04	Overline (only for marking vectors)
		em05	Strikethrough (not to be used to mark deleted text)
28	//installationLocation/@installationLocationType		
	Type of install location	instloctyp01	Zone
		instloctyp02	Section
		instloctyp03	Station
		instloctyp04	Water line
		instloctyp05	Buttock line
29	//maintLevel/@maintLevelCode		
	Maintenance level	ml01	Level 1 (home)
		ml02	Level 2 (authorized workshop)
30	//@itemOriginator		
	Origin of equipment/harness/wire	orig01	Manufacturer
		orig02	Vendor

Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
		orig03	Partner
31	//randomList/@listItemPrefix		
	Prefix of 'randomList' items, limited to three variants	pf01	Simple (No prefix, only indent)
		pf02	Unorder (Depending on list level, prefix with short dash for first level, bullet for second, and short dash for third level - ISOpub: bull, dash) - Default value
		pf03	Dash (short dash - ISOpub: dash)
32	//inlineSignificantData/@significantParaDataType		
	Paragraph significant data type	psd01	Ammunition
		psd02	Instruction disposition
		psd03	Lubricant
		psd04	Maintenance level
		psd05	Manufacturer code
		psd06	Manufacturers recommendation
		psd07	Modification code
		psd08	Qualification code
		psd09	Training level
33	//quantity/@quantityType		
	Quantity data type	qty01	Length
		qty02	Price
		qty03	Temperature
		qty04	Time
		qty05	Torque value
		qty06	Voltage
		qty07	Volume
		qty08	Mass
34	//dialog/@resetCaption		
	Caption for dialog reset caption	re01	Sets the caption to "RESET"
		re02	Sets the caption to "CLEAR"
35	//commentResponse/@responseType		
	Type of response to a comment	rt01	Accepted
		rt02	Pending

Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
		rt03	Partially accepted
		rt04	Rejected
36	//@skillLevelCode		
	Personnel skill level	sk01	Basic
		sk02	Intermediate
		sk03	Advanced
37	[0] //taskDefinition/@skillType		
	Personnel skill categorization is not applied		
38	//@submitCaption		
	Caption for dialog submit function	ok01	Sets the caption to "OK"
		ok02	Sets the caption to "SUBMIT"
		ok03	Sets the caption to "YES"
		ok04	Sets the caption to "CONTINUE"
		ok05	Sets the caption to "EXIT"
39	//supervisorLevel/@supervisorLevelCode		
	Supervisor level	sl01	Low
		sl02	Low intermediate
		sl03	High intermediate
		sl04	High
40	//@taskCode		
	Task code	taskcd01	Detailed inspection (DET)
		taskcd02	Discard (DIS)
		taskcd03	Functional Check (FNC)
		taskcd04	General visual inspection (GVI)
		taskcd05	Lubrication (LUB)
		taskcd06	Operational check (OPC)
		taskcd07	Restoration (RST)
		taskcd08	Servicing (SVC)
		taskcd09	Visual check (VCK)
41	//limitType/@limitUnitType		
	Limit type	lt01	Time between overhaul
		lt02	Hard time

Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
		lt03	Since last maintenance
		lt04	Out time limit
		lt05	On condition
		lt06	Check maintenance
		lt07	Functional check
42	//threshold/@thresholdUnitOfMeasure		
	Unit of measurement for the threshold interval	th03	Months
		th04	Weeks
		th05	Years
		th06	Days
		th11	Shop visits
		th12	Auxiliary power unit change
		th14	Wheel change
43	//sourceType/@sourceTypeCode		
	indicates the type of source	stc51	fec
44	//sourceType/@sourceCriticality		
	indicates the impact of not complying with the requirement	sc55	Evident, Safety
		sc56	Evident, operational
		sc57	Evident, Economic
		sc58	Hidden, Safety
		sc59	Hidden, Non-Safety
45	//verbatimText/@verbatimStyle		
	Verbatim style	vs01	Generic verbatim
		vs02	Filename
		vs11	XML/SGML markup
		vs12	XML/SGML element name
		vs13	XML/SGML attribute name
		vs14	XML/SGML attribute value
		vs15	XML/SGML entity name
		vs16	XML/SGML processing instruction
		vs21	Program prompt

Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
		vs22	User input
		vs23	Computer output
		vs24	Program listing
		vs25	Program variable name
		vs26	Program variable value
		vs27	Constant
		vs28	Class name
		vs29	Parameter name
46	//@quantityUnitOfMeasure Quantity data unit of measure - for further information refer to Chap 3.9.6.2 and the corresponding xml table		

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Bicycle

Description of how it is made

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References

Table 1 References

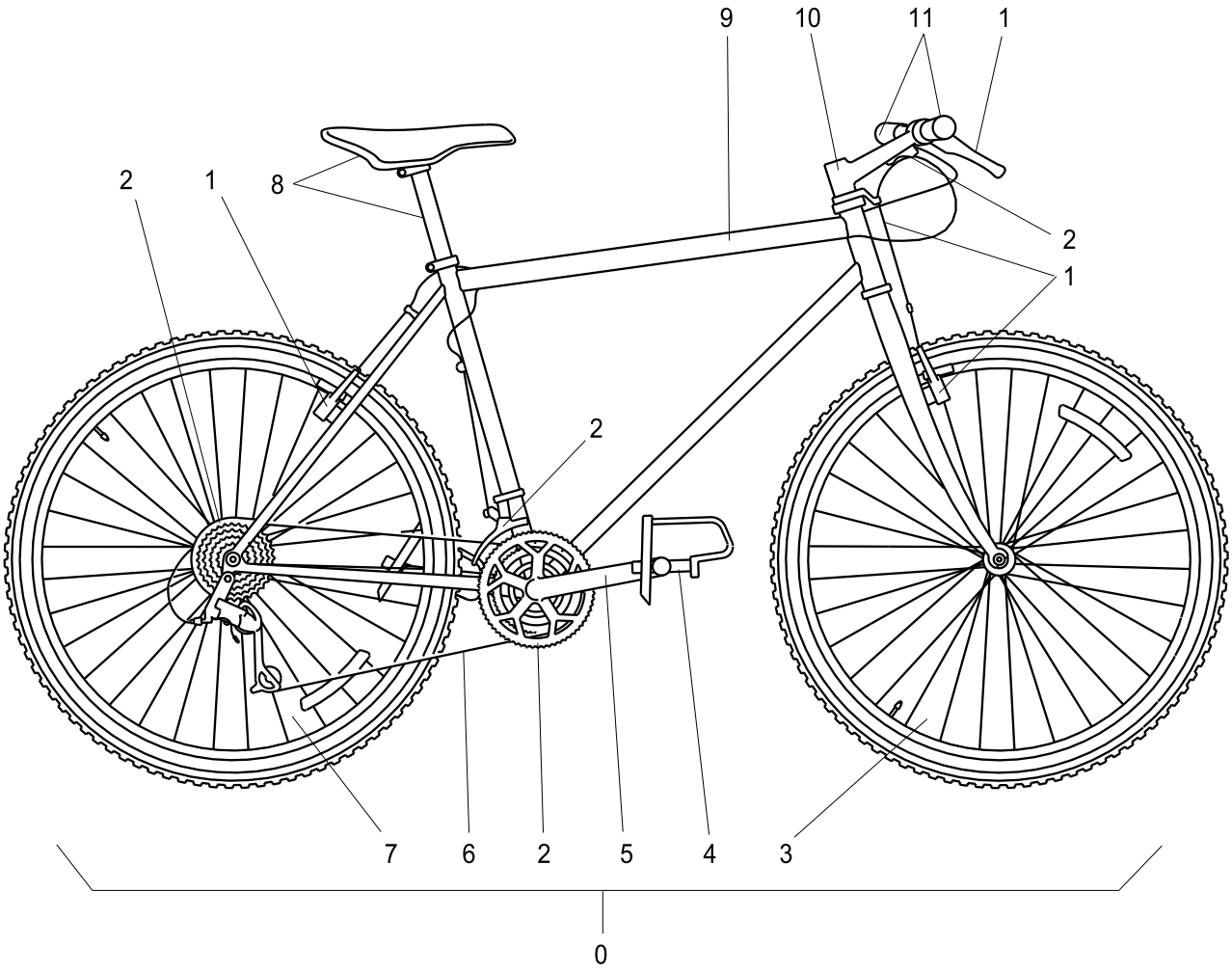
Data module / Technical publication	Title
None	

Description

1 Physical description of a bicycle

A bicycle (refer to Fig 1) is a frame and a number of movable components with mechanical parts that are completely open. There are no covers or sheet metal panels that prevent access to the mechanical parts. Thus, you can disassemble the different components of a bicycle (refer to Fig 1 [0]) to do:

- an inspection
- a maintenance task
- a repair task



ICN-S1000DBIKE-AAA-D000000-0-U8025-00536-A-04-1

Fig 1 Complete bicycle

The parts that you can immediately identify on a bicycle are given in Table 1.

Table 2 Bicycle parts

Item	Refer to	Definition
Frame	Fig 1 [9]	A bicycle frame is made of metal tubes that are welded together.
Wheels		The wheels include these parts: - Hub - Spokes - Metal rim - Rubber tire
- Rear wheel	Fig 1 [7]	

Table 2 Bicycle parts (Continued)

Item	Refer to	Definition
- Front wheel	Fig 1 [3]	
Seat and seat post	Fig 1 [8]	These install into the seat tube with a mechanism you can use to change the height.
Handle bars	Fig 1 [11]	A horizontal bar that attaches to the stem with grips at the ends that attach to the brake levers and the shifters.
Handle bar stem	Fig 1 [10]	This attaches the handle bar to the steering tube (head set).
Cranks	Fig 1 [5]	A lever that extends from the bottom of the bracket to the pedal.
Pedals	Fig 1 [4]	The two platforms for the feet that attach to the crank.
Chain	Fig 1 [6]	A circular set of links that connect the chain ring to the cogs on the freewheel.
Gears	Fig 1 [2]	The gears include: - Front chain ring - Rear freewheel - Front and the rear derailleur - Shift lever on the handle bars - Cables
Brakes	Fig 1 [1]	The brakes include: - Actuators on the handlebars - Brake cable - Brake callipers - Brake pads

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Bicycle

Description of function

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA3-00-00-00AA-041A-A	Frame – Description of how it is made
S1000DBIKE-AAA-DA0-00-00-00AA-041A-A	Wheel – Description of how it is made
S1000DBIKE-AAA-DA2-20-00-00AA-720A-A	Handlebar – Install procedures
S1000DBIKE-AAA-DA5-30-00-00AA-041A-A	Shifters – Description of how it is made
S1000DBIKE-AAA-DA2-10-00-00AA-720A-A	Stem – Install procedures
S1000DBIKE-AAA-DA2-10-00-00AA-520A-A	Stem – Remove procedures
S1000DBIKE-AAA-DA5-00-00-00AA-041A-A	Gears – Description of how it is made
S1000DBIKE-AAA-DA1-00-00-00AA-041A-A	Brake system – Description of how it is made
S1000DBIKE-AAA-DA2-20-00-00AA-520A-A	Handlebar – Remove procedures
S1000DBIKE-AAA-DA4-10-00-00AA-251B-A	Chain – Clean with chain cleaning fluid
S1000DBIKE-AAA-DA5-10-00-00AA-041A-A	Mechs – Description of how it is made

Description

1 Functional description of a bicycle

Below is a list of the different bicycle components and a functional description of them.

Frame	The frame is the skeleton of the bicycle. Refer to S1000DBIKE-AAA-DA3-00-00-00AA-041A-A for a functional description of the frame system.
Wheel	The wheel is the point of contact between the bicycle and the road for the bicycle to have movement. Refer to S1000DBIKE-

	AAA-DA0-00-00-00AA-041A-A for a functional description of the wheel.
Spokes	The spokes are thick wires with tension applied that connect the hub to the rim. You can adjust the tension with the nipple on the rim side.
Hub	The hub attaches to the center of the wheel where the axle and the bearings are.
Metal rim	The metal rim is a metal ring that has a U-shaped cross section to hold the spokes on the inner side and the tire on the outer side.
Seat	The Seat, which is also known as the 'saddle', is used as the support platform for the person to sit on the bicycle.
Seat post	The Seat post is used as a support post for the seat and to change the height of the seat for the rider.
Handle bar	The handle bar is a horizontal bar with handles on each end. The handle bar is a steering mechanism that the rider uses to change the direction of the bicycle. The brake levers are also on the handle bar. Refer to S1000DBIKE-AAA-DA2-20-00-00AA-720A-A for information on how to install the handle bar. Refer to S1000DBIKE-AAA-DA2-20-00-00AA-520A-A for information on removing the handlebar.
Handle bar stem	The handle bar stem (the stem) attaches the handle bar to the steering tube. Refer to S1000DBIKE-AAA-DA2-10-00-00AA-720A-A for information on how to install a stem. Refer to S1000DBIKE-AAA-DA2-10-00-00AA-520A-A for information on how to remove the stem.
Brake levers	When you operate the brake lever, the brake pads move against the wheel to decrease the speed. The brake lever on the left side operates the front brake. The brake lever on the right side operates the rear brake.
Brakes	When you operate the brakes, the brake pad moves against the wheel to decrease the speed of the bicycle. Refer to S1000DBIKE-AAA-DA1-00-00-00AA-041A-A for a description of the braking system.
Shifters	The shifters are the mechanisms that you use to change the gears on the bicycle. There are 7 different types of shifters that have been developed over the years, but they all have the same functionality. When you operate the shifters, they pull the control cable to move the derailleur towards a larger diameter chain ring. The shifters can also loosen the cable to let the derailleur move towards a smaller diameter chain ring. Refer to S1000DBIKE-AAA-DA5-30-00-00AA-041A-A for a functional description of the shifters.
Crank	The crank moves the power to the chain rings when the pedals operate.

Pedals	The pedals move the force of movement from the feet to the cranks.
Chain	The chain moves the power from the chain rings to the cogs on the freewheel. Refer to S1000DBIKE-AAA-DA4-10-00-00AA-251B-A for the procedure on how to clean the chain.
Gears	The gears have different mechanisms that function together to change the speed of the bicycle. These mechanisms include: the sprockets the chain the derailleur Refer to S1000DBIKE-AAA-DA5-00-00-00AA-041A-A for a functional description of the gear system.
Chain rings	The chain rings (also known as the 'chain wheel') pull on the chain when the cranks turn.
Derailleur	A derailleur moves the chain from one sprocket to another to change the gears. There are two different types of derailleur, the front and the rear. The highest ratio (highest gear) is when the chain is on the largest sprocket on the front and the smallest at the rear. To get the lowest gear, the smallest sprocket is at the front and the largest at the rear. Refer to S1000DBIKE-AAA-DA5-10-00-00AA-041A-A for a functional description of the derailleur system.

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Bicycle

Description attributed to crew

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA5-30-00-00AA-041A-A	Shifters – Description of how it is made

1 Introduction

Data about the bicycle and its control system is given in this document. This data will help you operate the bicycle.

2

2.1 Controls

Data about the controls that follow is given in this document:

- Para 2.2
- Para 2.3
- Para 2.4
- Para 2.5

2.2 Steering

The handlebars are used to steer the bike. They are at the front of the bicycle. You hold one of the handlebar grips with each hand and move the handle bar to change the direction of the bike.

2.3 Shifters

The gears control the ratio of pedal rotation to wheel rotation. You can change this with the shifters S1000DBIKE-AAA-DA5-30-00-00AA-041A-A . The shifters are on the handlebar.

A description of the two Table 2 follows.

Table 2 shifter correlation

Shifter Location	Affected Gears
Left	The buttons on the left shifter changes the gears on the front derailleur.
Right	The buttons on the right shifter changes the gears on the rear derailleur.

2.4 Brakes

WARNING

If you operate the front brake without the rear brake you can cause a crash.

You can decrease the speed of the bike with the brakes. You operate the brakes with the brake levers on the handlebar.

A description of the Table 3 follows.

Table 3 brake lever correlation

Brake Lever Location	Affected Brake
Left	This lever operates the front brake.
Right	This lever operates the rear brake.

2.5 Pedals

The pedals are at the bottom of the seat tube. You operate the pedals to move the bicycle forward.

Bicycle

Pre-operation procedures (crew)

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA4-10-00-00AA-251B-A	Chain – Clean with chain cleaning fluid

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Tire pressure gauge	MFR: KZ666 /PN: BSK-TLST-001-01	1 EA	
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
General lubricant	MFR: KZ222 /PN: LL-001	As required	

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Examine the condition of the brakes.

1.1 Open the brake quick release.

1.2 Examine the condition and the thickness of the brake pads.

1.2.1 Make sure that there is a large quantity of rubber left.

1.2.2 Make sure that the pad is not too hard.

1.3 Clean all the unwanted material.

2 Do an inspection of the installation of the brakes.

2.1 Check the hydraulic brake system function.

ICN-S1000DBIKE-AAA-DA10000-0-U8025-00537-A-03-1

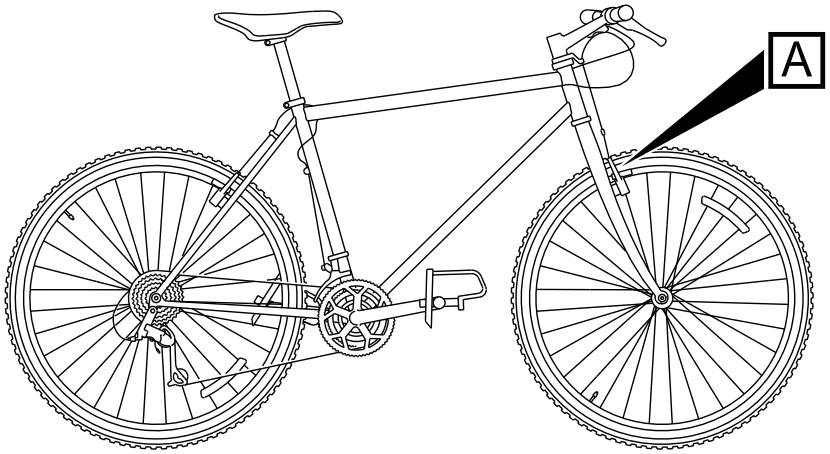
Fig 1, Other Hydraulic brake function

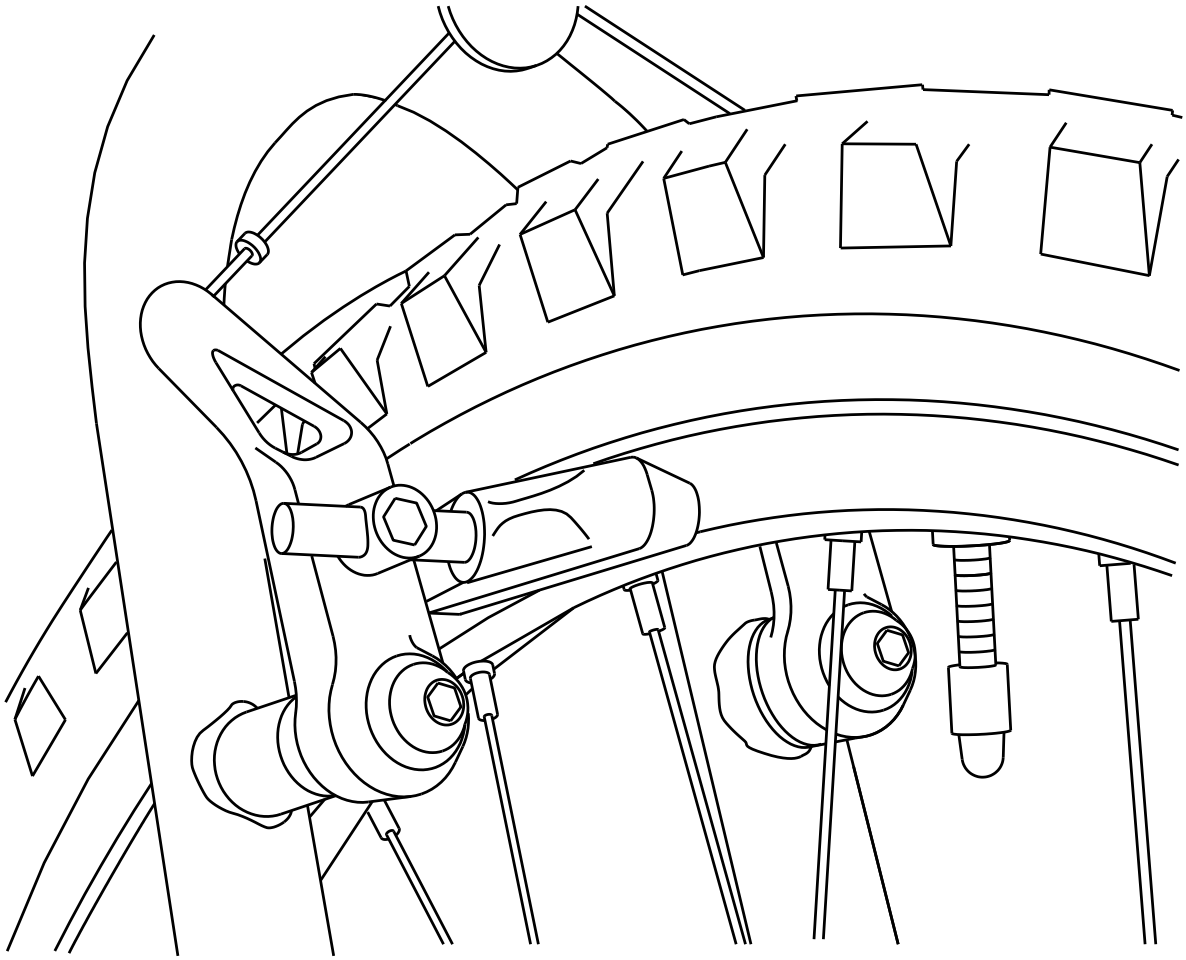
2.2 Make sure that there is sufficient clearance between the pad and the inner diameter of the brake surface.

2.3

CAUTION

If the position of the pads is too low on the rim, as shown in Fig 2 , the pads can move. This could cause the separation of the spokes from their mountings., they could slip off causing the spokes to be torn out of their mountings.





A

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Fig 2 Brake pad seating

Make sure that the pads are correctly installed in the center of the inner diameter of the brake surface.

3 Do a check of the tire pressure.

3.1 Do a check of the tire pressure with the Tire pressure gauge .

3.2 Compare the value you read with the recommended pressure that is shown into the sidewall of the tire.

3.3 Add the necessary air.

4 Examine the condition of the wheels.

4.1 Examine the rims for bulges and dents.

4.2 Examine for splits at the seam where an extruded rim is bonded.

5 Do a check of the headset bearings.

5.1 Straddle the bicycle.

Apply the front brakes and push the handle bars forward.

5.2 Make sure that the headset bearings are tight.

6 Do the checks on the chain.

6.1 Visually examine the chain.

If the chain is too dirty, clean it as specified in the clean chain task (refer to S1000DBIKE-AAA-DA4-10-00-00AA-251B-A).

6.1.1 Visually examine the chain for links that are frozen or that do not move easily.

6.1.2 Apply the necessary General lubricant .

6.2 Do a check of the chain to make sure that it is tight.

6.2.1 Make sure that the play of the chain is not too much.

6.2.1.1 Move the chain on the largest chain ring.

6.2.1.2 Try to pull the chain away from the front of the chain ring.

Make sure that the chain is not loose. Tighten the chain if, when you pull it away from the chain ring, you can see a full tooth.

6.2.2 Tighten the chain with the Allen wrench from the Specialist toolset.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Bicycle

Riding a bicycle

This is a "process" Data Module

The Docuneering S1000D XSL-FO Stylesheets do not yet support the "process" Data Module

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Bicycle

Normal operation procedures (crew)

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Table 1 References

Data module / Technical publication	Title
None	

Pre-ride inspection

Brakes

Pads

1 Pads..... Free of unwanted material

2 Pads..... Acceptable pad width

3 Pads..... Acceptable pad clearance

Callipers

1 Link Wire..... Firmly attached

Levers

1 Levers..... Approximately 1 inch of travel before engagement

2 Levers..... Space between lever and handlebar when fully pulled

Cables

1 Cables..... No cuts or fraying

Tires

1 Pressure.....

Table 2 Correlation of tire pressure and terrain

Tire Pressures	Min	Max
Off Road	35lbs	40lbs
On Road	55lbs	60lbs

2 Tires..... No cracks or splits

Wheels

1 Wheels..... No loose bearings

2 Wheels..... True

3 Spokes..... Not broken

If: Spokes not broken

4 Spokes..... Tight

5 Axel Nuts..... Tight

Headset

1 Headset bearings..... Tight

Chain

1 Links..... Easy movement of links

Handlebar

WARNING

Do not ride with a cracked stem

If: Stem cracked

1 *Procedure*

Replace stem

Else if: Stem is loose

1 *Procedure*

Tighten stem

If: Handlebars twist in stem

2 *Procedure*

Tighten clamp bolt

Computer

1 Computer Display..... ***Applicable to:*** *Mountain storm Mk1*

ALTITUDE	0 miles
SPEED	0 mph
DISTANCE	0 miles

Applicable to: *Brook trekker Mk9*

SPEED	0 mph
DISTANCE	0 miles

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Bicycle

Post-operation procedures (crew)

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Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Support equipment

Table 3 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 4 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
General lubricant	MFR: KZ222 /PN: LL-001	As required	

Spares

Table 5 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Clean the bicycle.

1.1 Clean the bicycle with water.

1.2 Use the brush from the Specialist toolset to clean the brakes, the shift levers, the sprockets and the tires.

1.3 Let the bicycle dry.

2 Lubricate the bicycle

2.1 Spray the General lubricant, to these moving parts:

the brake pivots
the derailleur pivots
the derailleur tension guides
the brake lever pivots
the control cables
the gear sprockets
the chain

2.2 Remove the lubricant which is more than the necessary.

Requirements after job completion

Required conditions

Table 6 Required conditions

Action / Condition	Data module / Technical publication
None	

Intentionally left blank.

Bicycle

Other procedures to clean

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA4-10-00-00AA-241A-A	Chain – Oil

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
The bicycle is outdoors	

Applicable to: *Mountain bicycle Brook trekker Mk9*

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Chemical technician	Intermediate	Bike cleaner	1,0 h

Applicable to: *Mountain bicycle Mountain storm Mk1*

Required persons

Table 4 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man B	Operator	Intermediate	Bike rider	1,0 h

Support equipment

Table 5 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Water hose	MFR: KZ666 /PN: BSK-TLST-001-09	1 EA	
Stiff bristle brush	MFR: KZ666 /PN: BSK-TLST-001-02	1 EA	
Sponge	MFR: KZ666 /PN: BSK-TLST-001-11	1 EA	

Consumables, materials and expendables

Table 6 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
Degreasing agent	MFR: KZ222 /PN: LL-004	1 L	
Detergent A	MFR: KZ666 /PN: BSK-TLST-023-14	1 L	
Applicable to: *Mountain bicycle Brook trekker Mk9*			
Detergent B	MFR: KZ666 /PN: BSK-TLST-001-15	1 L	

Spares

Table 7 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

WARNING

Do not get into your eyes. If it gets into your eyes, wash them immediately in clean warm water.

WARNING

Do not get into your eyes. If it gets into your eyes, wash them immediately in clean warm water.

CAUTION

Do not use a Water hose that has high pressure. A water hose that has high pressure can cause some parts to become loose or full of water.

CAUTION

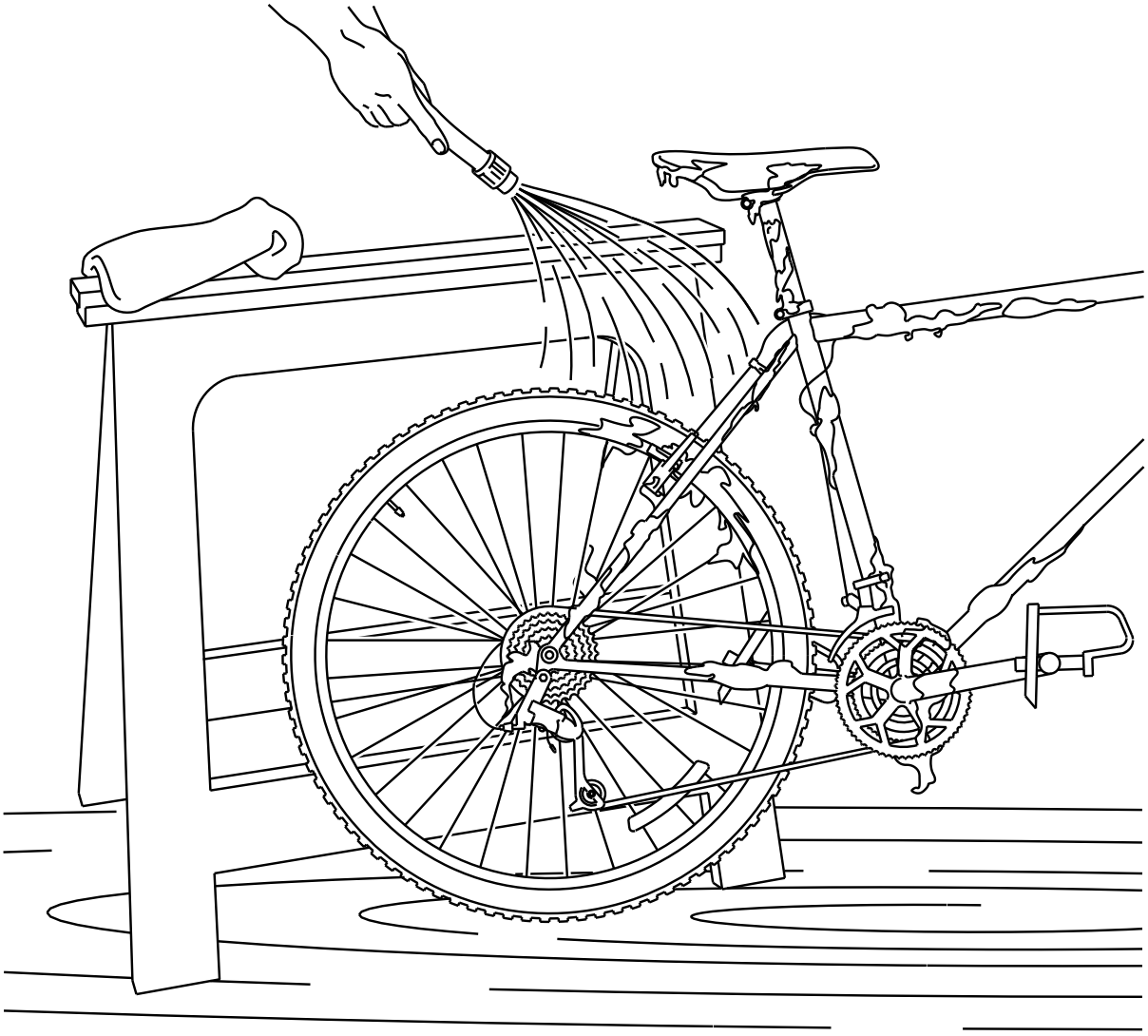
Do not point the hose directly at the hub or at the bottom bracket bearings. This can cause damage to the parts.

CAUTION

Apply Detergent B in accordance with the instruction on the container. The substance may cause damage to the Bike paint if it is not applied correctly.

Procedure

1 Clean the bicycle with water to remove all dirt. Refer to Fig 1.



ICN-S1000DBIKE-AAA-D000000-0-U8025-00502-A-04-1

Fig 1 Cleaning the bike

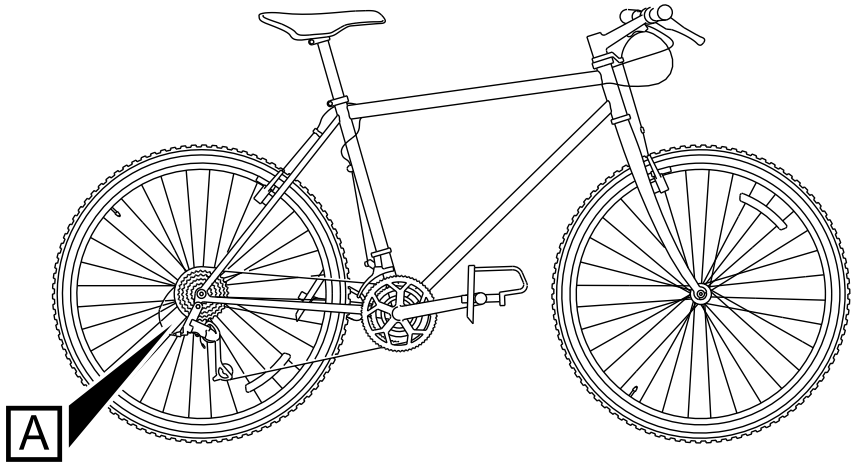
2 Use a Stiff bristle brush to get access to areas that are not easy to clean. These are the shift levers, the knobbly tires, and the brakes.

3 Clean the caked grime from the chain and the sprockets with a screwdriver that has a small blade.

4 Remove the grease from the freewheel assembly with the Degreasing agent as shown in Fig 2 . Use a brush to remove the grease from these parts:

- sprockets

- guide and tension wheels of the derailleur
- chain ring teeth



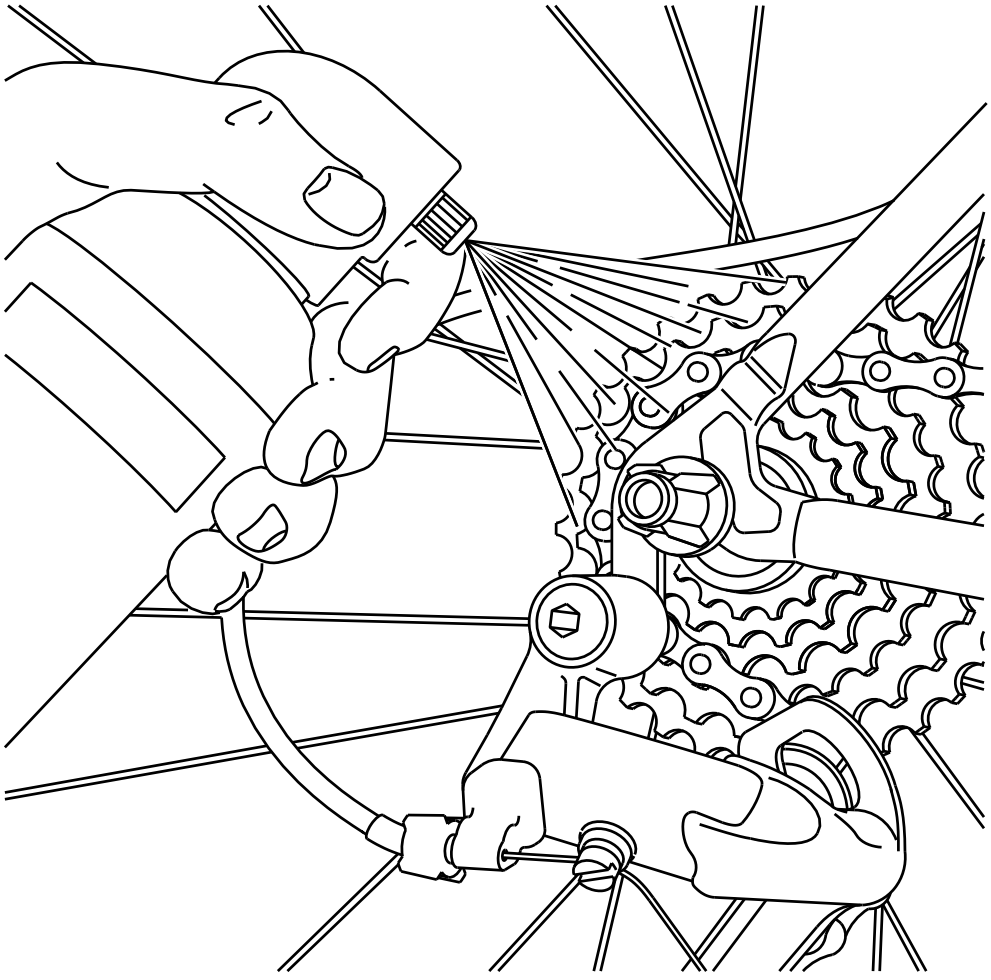


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Fig 2 Degreasing the freehub

5 Flush the sprockets, the derailleurs, the chain rings and the chain with water.

Note 1
If necessary, do the flush procedure again.

Applicable to: *Mountain bicycle Mountain storm Mk1*

5.1 Soak the Sponge into Detergent A and water.

5.2 Clean the bicycle with the soaked sponge.

5.3 Flush the bicycle and make sure that all Detergent A is removed.

5.4 Move the bicycle up and down on its tires to remove all water.

Applicable to: *Mountain bicycle Brook trekker Mk9*

5.5 Soak the Sponge into Detergent B and water.

5.6 Clean the bicycle with the soaked sponge.

5.7 Soak the Sponge into Detergent A and water.

5.8 Fully clean the bicycle with the soaked sponge.

5.9 Flush the bicycle to make sure that all detergents are removed.

5.10 Move the bicycle up and down on its tires to remove all water.

6 Lubricate the bicycle (refer to S1000DBIKE-AAA-DA4-10-00-00AA-241A-A).

Requirements after job completion

Required conditions

Table 8 Required conditions

Action / Condition	Data module / Technical publication
Make sure the bicycle is dry	

Intentionally left blank.

Bicycle

Place on test stand

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References

Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Test stand	MFR: KZ666 /PN: BSK-TLST-999-01	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Ensure Test stand is level.

2 Place bicycle on the test stand.

3 Tight clamps until bicycle is securely attach to the test stand.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Bicycle

Standard repair procedures

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA0-20-00-00AA-520A-A	Rear wheel – Remove procedures

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Operator	Basic	Bike rider	0,5 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Tire lever	MFR: KZ666 /PN: BSK-TLST-001-04	1 EA	
Foot pump	MFR: KZ666 /PN: BSK-TLST-001-05	1 EA	
Marker pen	MFR: KZ666 /PN: BSK-TLST-001-07	1 EA	
Tube patch kit	MFR: KZ666 /PN: BSK-TLST-001-07	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
Inner-tube	MFR: KT222 /PN: IT-001	1 EA	

Safety conditions

CAUTION

When you remove the rear wheel to repair a puncture, disconnect the brake arm from the chain stay.

Procedure

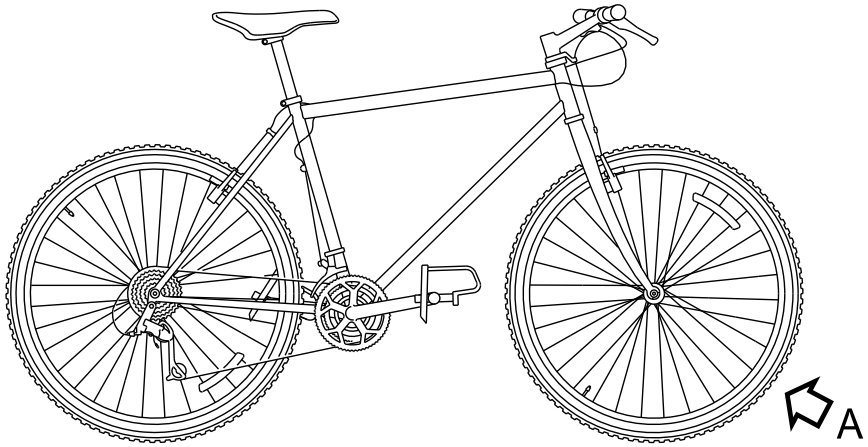
1 Remove the rear wheel. (Refer to S1000DBIKE-AAA-DA0-20-00-00AA-520A-A)

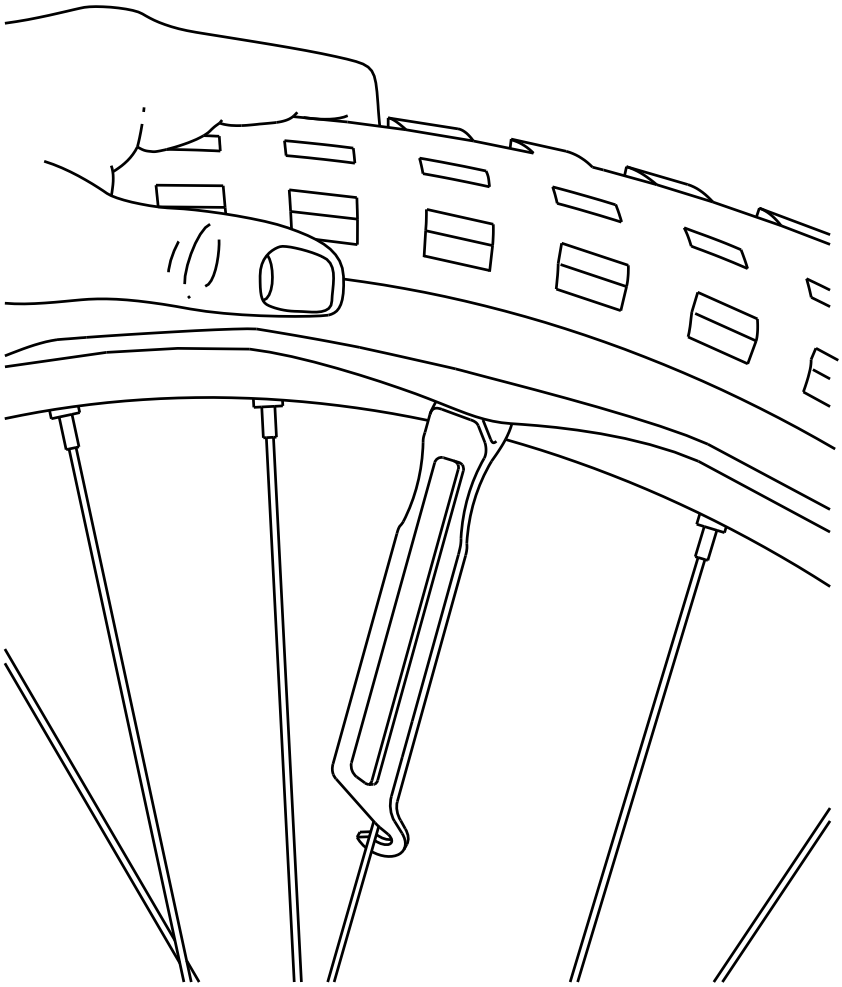
2 Make sure that there is no air in the tube.

2.1 Loosen the cap on the valve stem.

2.2 Push the valve stem core down to bleed all the air.

3 Use a Tire lever to move the tire bead out of its seat. Lift the tire bead above the lip of the rim.





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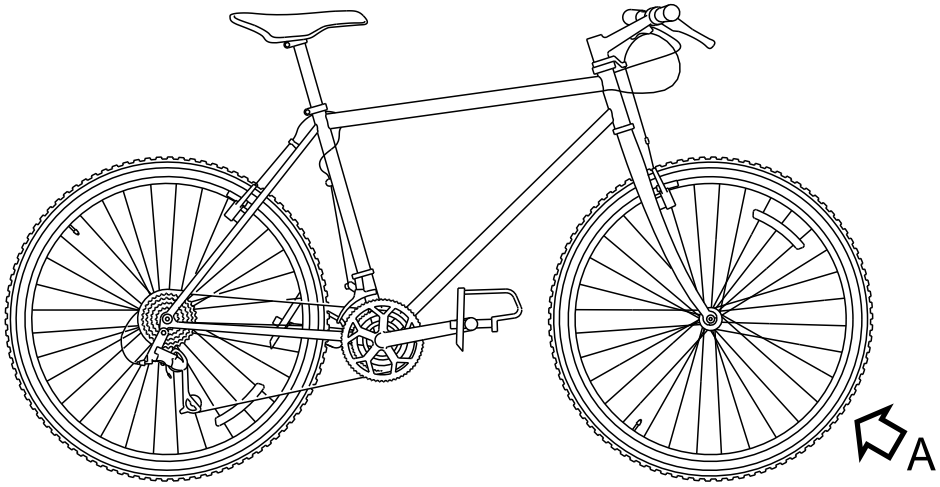
ICN-S1000DBIKE-AAA-DA00000-0-U8025-00506-A-04-1

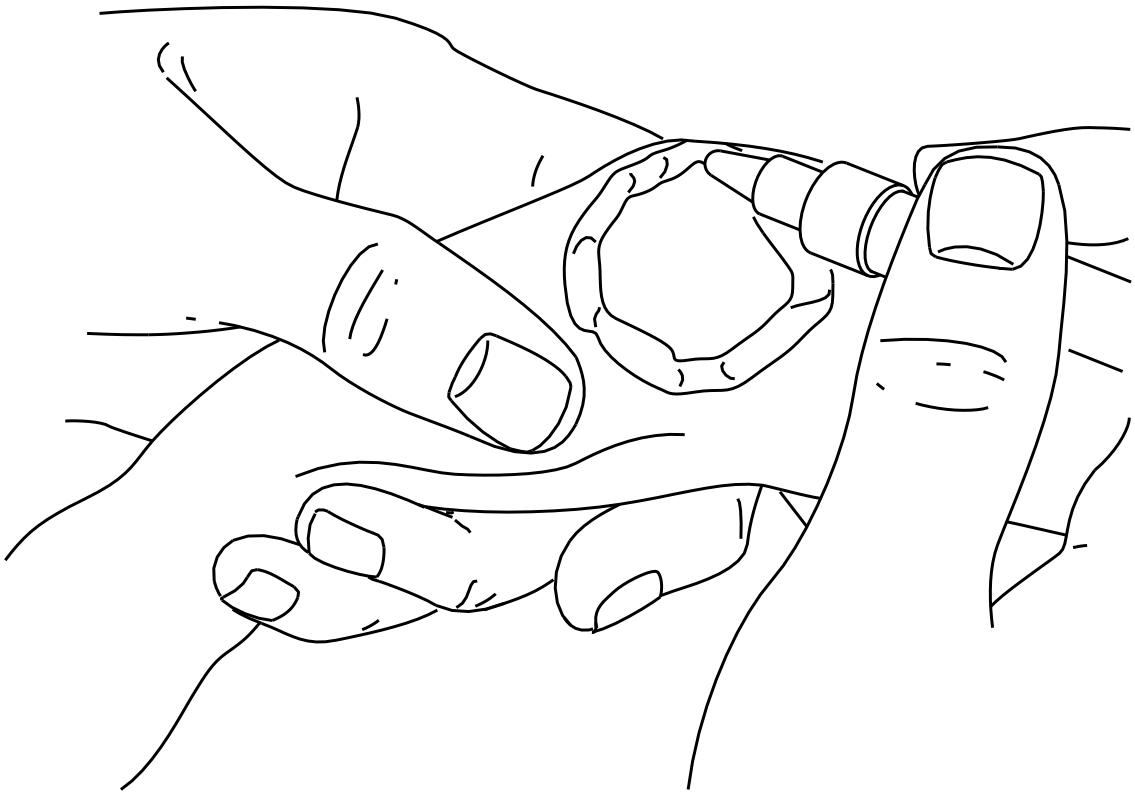
Fig 1 Unseating the tire with a tire lever

4 Remove the tube.

5 Inflate (not fully) the tube with the Foot pump. Examine the tube for leaks.

6 If you find a leak, identify it with a circle made with a Marker pen.





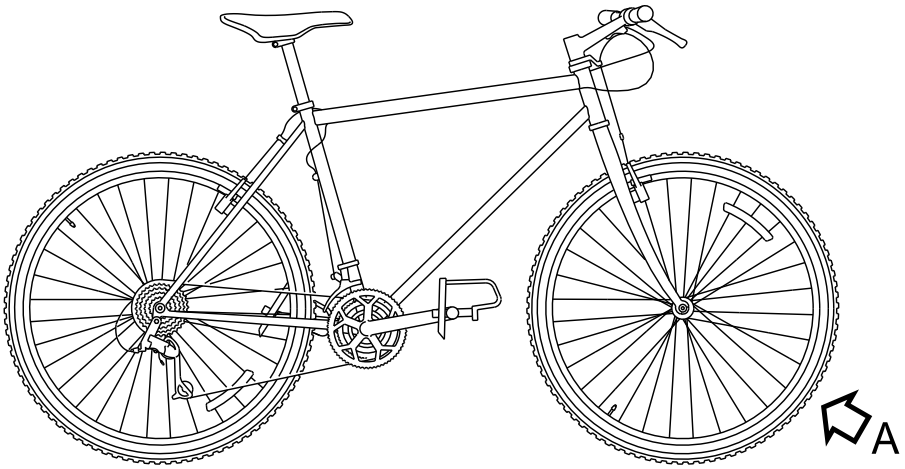
A

ICN-S1000DBIKE-AAA-DA01010-0-U8025-00508-A-04-1

Fig 2 Circle leak

7 Release most of the air.

8 Use a piece of sandpaper from the Tube patch kit and make the area on and around the hole rough. This will help the patch bond correctly.



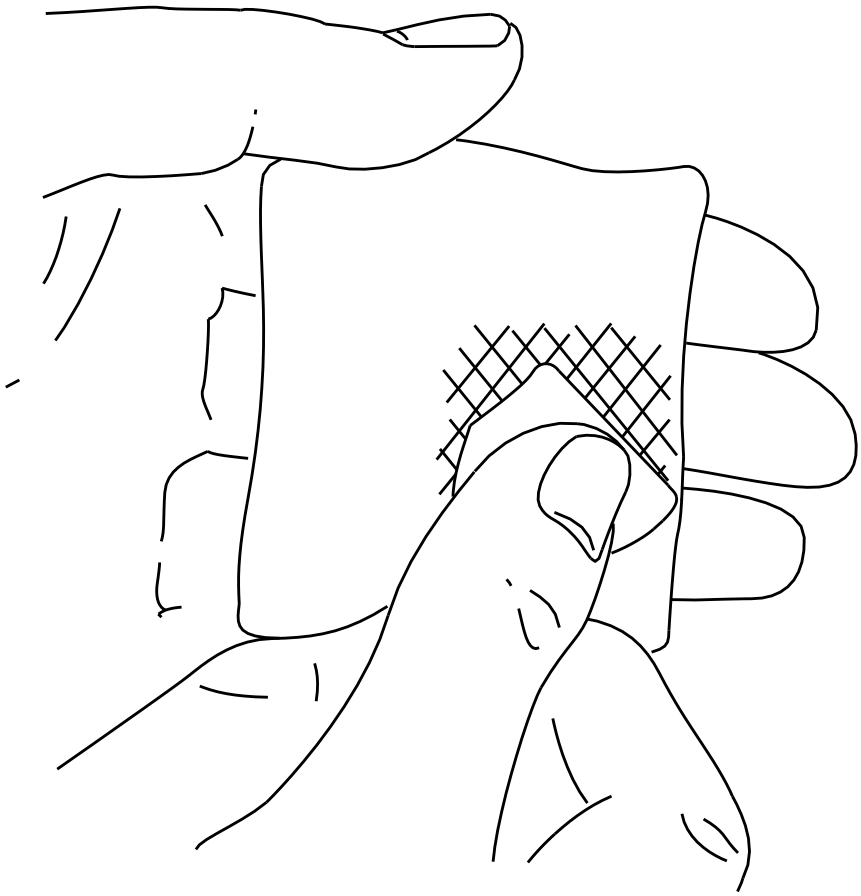


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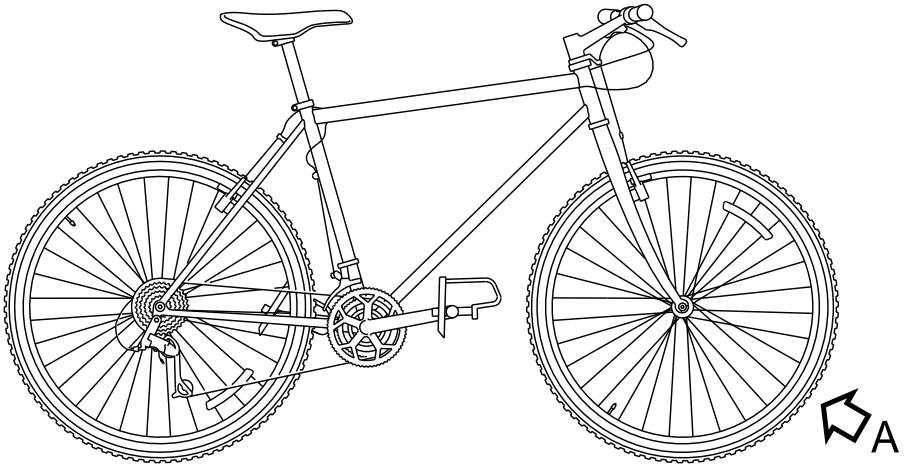
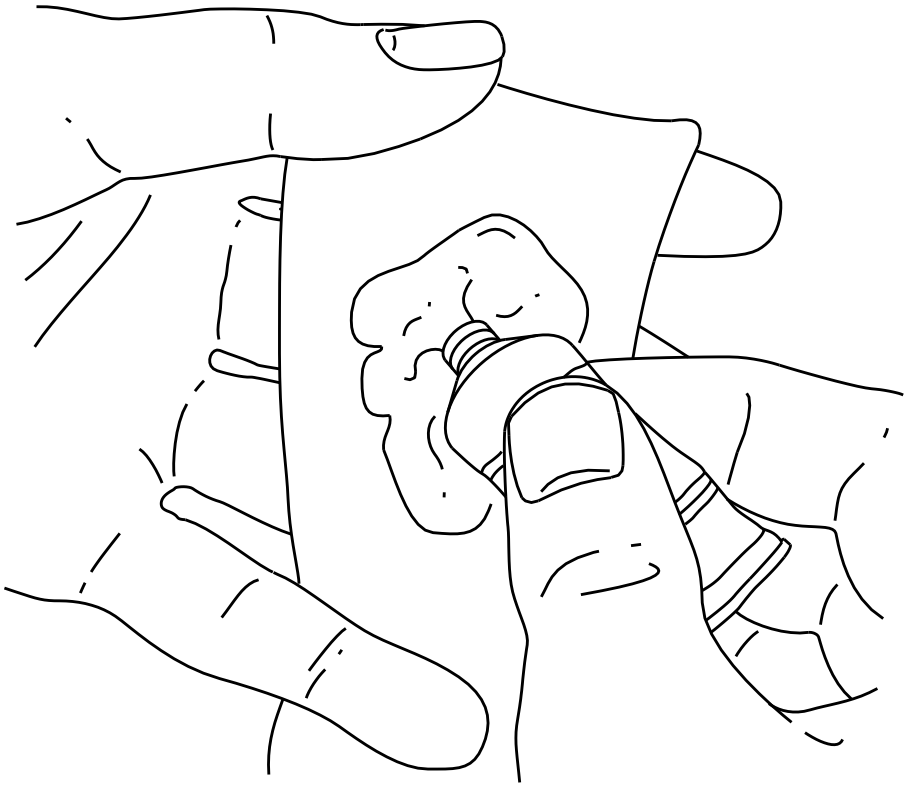
Fig 3 Sanding the application area

9 Apply a thin layer of glue from the patch kit on and around the hole. Make sure that the area with the glue is larger than the patch.





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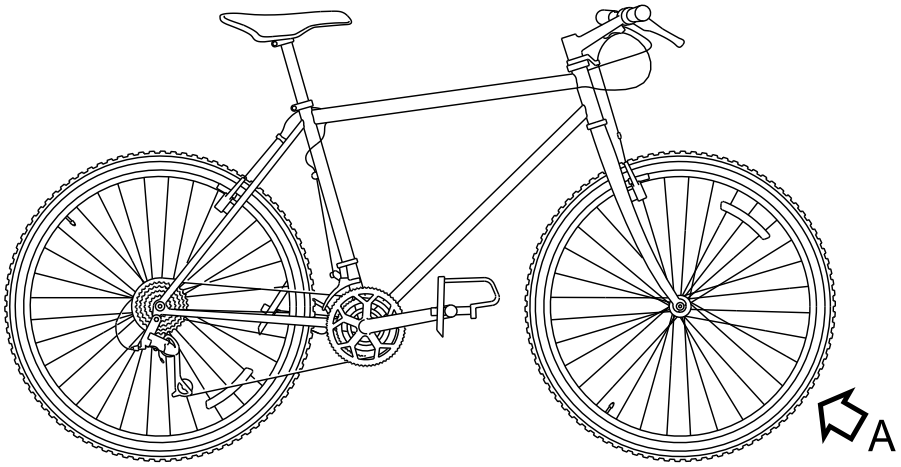
ICN-S1000DBIKE-AAA-DA01010-0-U8025-00510-A-04-1

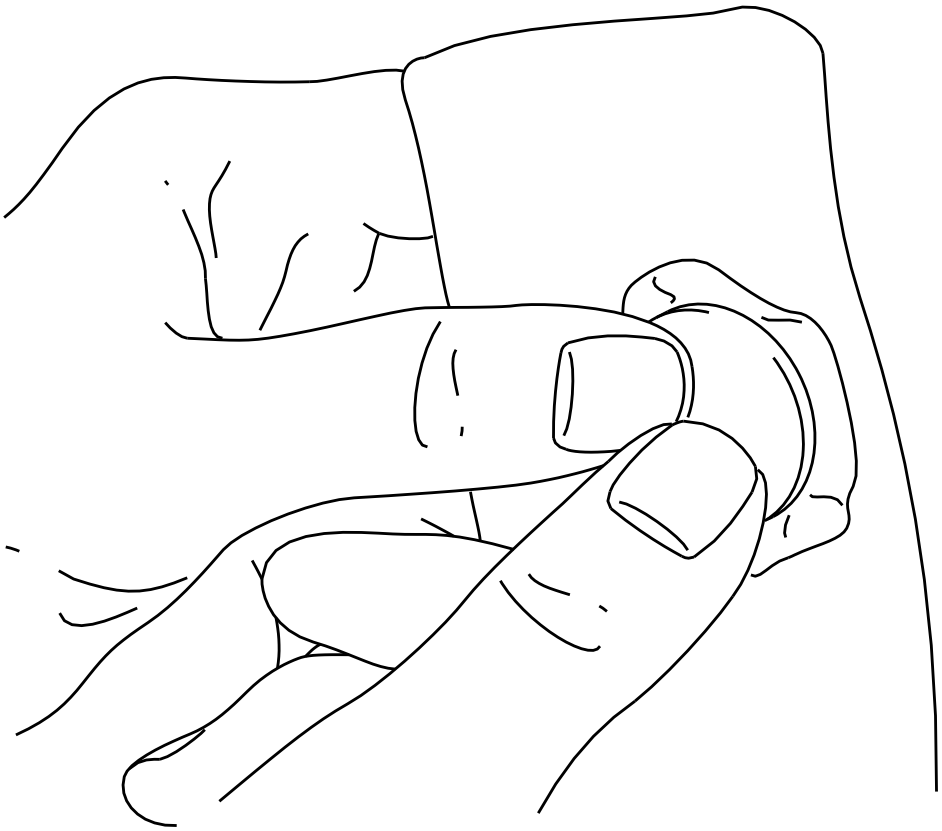
Fig 4 Apply glue to application area

10 Let the glue dry for five minutes until it becomes tacky and dim.

11 Remove the rear foil from the patch (that is a part of the patch kit) and push the patch in its position.

12 Push with your thumbs from the center of the patch to the outer part of the applied area.





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ICN-S1000DBIKE-AAA-DA01010-0-U8025-00511-A-04-1

Fig 5 Apply pressure to tube

13 Remove the thin cover from the patch.

14 Put a very thin layer of talcum powder on and around the patch.

15 Inflate (not fully) the repaired tube with the foot pump.

16 Start at the valve stem and install the tube again between the tire and the rim.

17 Push the valve stem through the hole in the rim.

18 Make sure that the valve stem is straight.

19 Install the remaining of the tire.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

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Bicycle

Illustrated Parts Data - IPD

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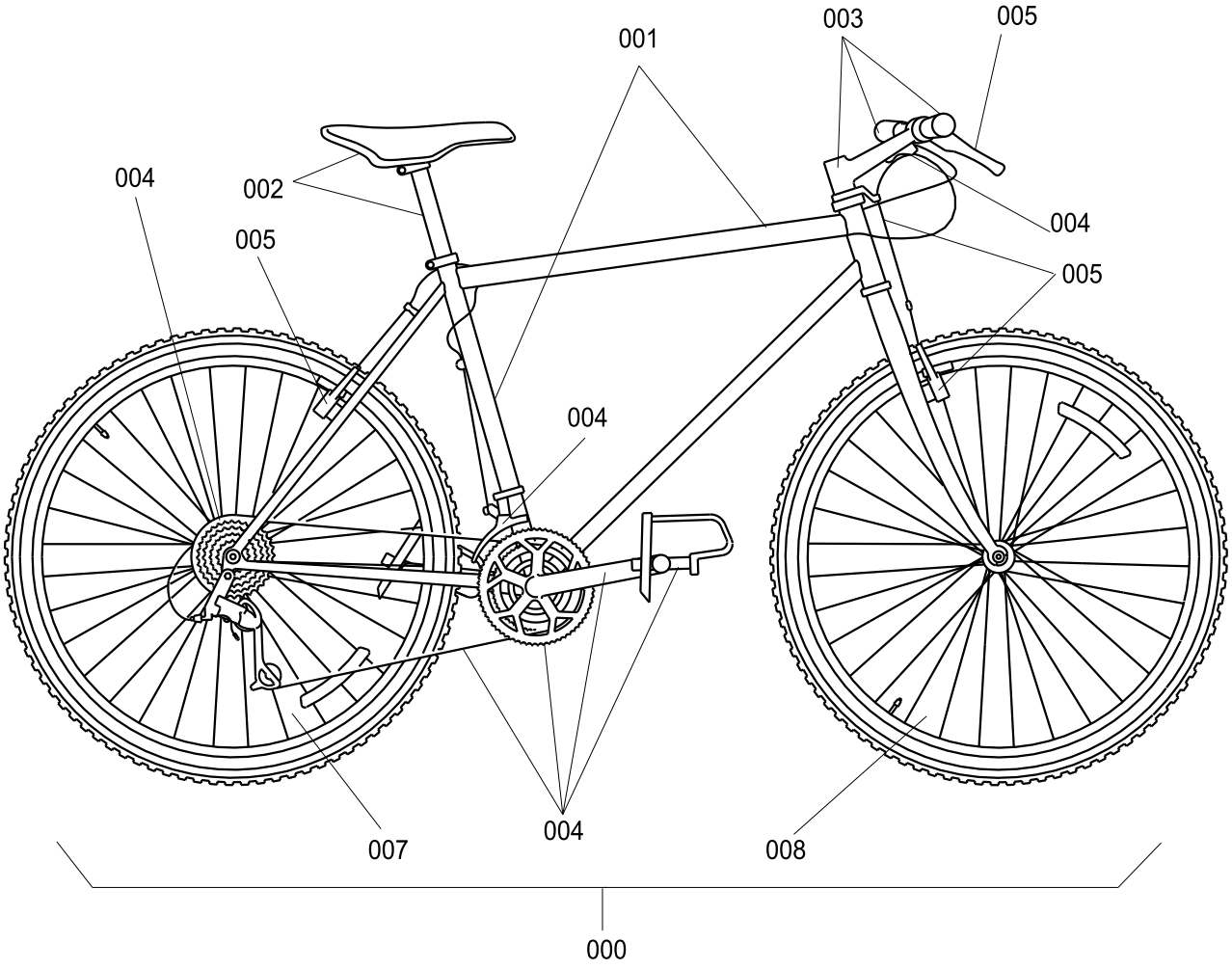
References

Table 1 References

Data module / Technical publication	Title
None	



ICN-S1000DBIKE-AAA-D000000-0-U8025-00536-B-04-1

Fig 1 Bicycle

Initial provisioning project information

IPP number: KZ9990001
IPP subject: .....BICYCLE
IPP file identifier: .....s

Fig	Item	Units per assembly / Unit of issue	NCAGE	Part No. NATO Stock No.	Description	* Usable on code assy • MV/Effect	ICY
0/0							
	NaN	REF	KZ999	BICYCLE-001	Bicycle	• MB	
	NaN	1 EA	KZ999	BICYCLE-001/1	• Frame assembly	• MB	
	NaN	1 EA	KZ999	BICYCLE-001/2A	• • Seat, assembly	• MB	
	NaN	1 EA	KZ999	BICYCLE-001/2B	• • Cruiser Seat, assembly	• MB	
	NaN	1 EA	KZ999	BICYCLE-001/3	• • Steering system	• MB	
	NaN	1 EA	KZ999	BICYCLE-001/4	• • Drive train system	• MB	
	NaN	1 EA	KZ999	BICYCLE-001/5	• • Brake sub-system	• MB	
	NaN	1 EA	KZ777	LRU1001	• • Light system	• MB	
	NaN	1 EA	KZ888	WH-001	• • Wheel, assembly rear	• MB	
	NaN	1 EA	KZ888	WH-002	• • Wheel, assembly front	• MB	
	NaN	1 EA	KZ888	CP-001	• • Computer	• MB	

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Bicycle

Time limits

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List of tables

References

Table 1 References

Data module / Technical publication	Title
None	

Time limits

Ident	Equipment	Qty	Time limits	Applicability
001	Bicycle MFR: KZ555 /PN: Bicycle-001	1 EA	Type: Functional check 1 Day ± 1 Type: On condition 1 Day	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
002	Brake pads MFR: KT444 /PN: BR-PADS-001	4 EA	Category: Cat Type: On condition 1 Month	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
003	Chain MFR: KZ555 /PN: Ch-001		Type: On condition 1 Month	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
004	Hub bearings MFR: KZ555 /PN: HB-001	2 EA	Category: Cat Type: Check maintenance 6 Month ± 1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Bicycle

Scheduled maintenance lists

List of tasks

Task ident	Description
001	To do the pre-ride checks
002	To do the post-ride maintenance
003	Clean brake pads
004	Clean the chain
005	Clean the hub bearings

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List of tables

List of tables (Continued)

References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-D00-00-00-00AA-121A-A	Bicycle – Pre-operation procedures (crew)
S1000DBIKE-AAA-D00-00-00-00AA-151A-A	Bicycle – Post-operation procedures (crew)
S1000DBIKE-AAA-DA1-10-00-00AA-251A-A	Brake pads – Clean with rubbing alcohol
S1000DBIKE-AAA-DA4-10-00-00AA-251B-A	Chain – Clean with chain cleaning fluid
S1000DBIKE-AAA-DA0-20-00-00AA-520A-A	Rear wheel – Remove procedures

Task ident: 001

Task code:..... General visual inspection (GVI)
Worthiness limitation:..... Recommended
Reduced maintenance:..... No
Skill type:..... Airframe (AIRPL)
Task description:..... To do the pre-ride checks

Requirement source

Source of requirement:..... MRB
Approval:..... ap01

Source type
Code:..... stc51
Source criticality:..... sc55

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Tire pressure gauge	MFR: KZ666 /PN: BSK-TLST-001-01	1 EA	
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
General lubricant	MFR: KZ222 /PN: LL-001	As required	

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

References

S1000DBIKE-AAA-D00-00-00-00AA-121A-A

Equipment

- Bicycle
  MFR: KZ555 /PN: Bicycle-001

Limit

Perform once

Interval: 1 Day ± 1
Inspection type: Daily

Task ident: 002

Worthiness limitation:..... Recommended
Reduced maintenance:..... No
Task description:..... To do the post-ride maintenance

Preliminary requirements

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 8 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 9 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 10 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
General lubricant	MFR: KZ222 /PN: LL-001	As required	

Spares

Table 11 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

References

S1000DBIKE-AAA-D00-00-00-00AA-151A-A

Equipment

- Bicycle
  MFR: KZ555 /PN: Bicycle-001

Limit

On condition

Condition: Dirty

1 Day ± 1
Inspection type: Daily

Task ident: 003

Worthiness limitation:..... Recommended
Reduced maintenance:..... Yes
Task description:..... Clean brake pads

Preliminary requirements

Required conditions

Table 12 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 13 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 14 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
None			

Consumables, materials and expendables

Table 15 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
Rubbing alcohol	MFR: KZ222 /PN: LL-002	As required	

Spares

Table 16 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

References

S1000DBIKE-AAA-DA1-10-00-00AA-251A-A

Equipment

- Brake pads
  MFR: KT444 /PN: BR-PADS-001

Limit

Perform periodically

Inspection type: Monthly

Limit range:
from: 1 Month
to: 1 Month

Task ident: 004

Worthiness limitation:..... Recommended
Reduced maintenance:..... Yes
Task description:..... Clean the chain

Preliminary requirements

Required conditions

Table 17 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 18 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 19 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Stiff bristle brush	MFR: KZ666 /PN: BSK-TLST-001-02	1 EA	
Chain cleaning fluid	MFR: KZ222 /PN: LL-003	As required	
Chain cleaning tool	MFR: KZ666 /PN: BSK-TLST-001-03	1 EA	

Consumables, materials and expendables

Table 20 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
Floor covering		As required	
General lubricant	MFR: KZ222 /PN: LL-001	As required	

Spares

Table 21 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

References

S1000DBIKE-AAA-DA4-10-00-00AA-251B-A
S1000DBIKE-AAA-D00-00-00-00AA-121A-A

Equipment

- Chain
  MFR: KZ555 /PN: Ch-001

Limit

Perform periodically

Condition: Dirty

1 Month
Inspection type: Monthly

Trigger event
S1000DBIKE-AAA-D00-00-00-00AA-121A-A

Task ident: 005

Worthiness limitation:..... Recommended
Reduced maintenance:..... No
Task description:..... Clean the hub bearings

Preliminary requirements

Required conditions

Table 22 Required conditions

Action / Condition	Data module / Technical publication
Rear wheel removed	S1000DBIKE-AAA-DA0-20-00-00AA-520A-A

Required persons

Table 23 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man B	Supervisor	Advanced	Bicycle mechanic	0,8 h
Man A	Basic user		Operator	0,3 h

Support equipment

Table 24 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 25 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
Degreasing agent	MFR: KZ222 /PN: LL-004	As required	
General grease	MFR: KZ222 /PN: LL-005	As required	

Spares

Table 26 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Equipment

- Hubs
  MFR: KZ555 /PN: HB-002

Supervise

Supervisor level:..... Low

Limit

Perform periodically

6 Month
Inspection type: 6 Monthly

Limit range:
from: 6 Month ± 1

Bicycle

Scheduled maintenance checks

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Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-D00-00-00-00AA-121A-A	Bicycle – Pre-operation procedures (crew)

Inspection definitions

Limits			Applicability
No.	**Task**	**References**	
•	On condition Condition: Pre-ride 1 Week ± 1 Inspection type: Pre Limit range: from: 1 Week ± 1		
001	Inspect Brakes To do an inspection of the brakes	S1000DBIKE-AAA-D00-00-00-00AA-121A-A	
002	Inspect brakes installation To do an inspection of the brakes installation	S1000DBIKE-AAA-D00-00-00-00AA-121A-A	
003	Check Tire Pressure To do a check of the tire pressure	S1000DBIKE-AAA-D00-00-00-00AA-121A-A	
004	Inspect wheel condition To do an inspection of the wheel condition	S1000DBIKE-AAA-D00-00-00-00AA-121A-A	

(Continued)

Limits			Applicability
No.	**Task**	**References**	
005	Check headset bearings To do a check of the headset bearings	S1000DBIKE-AAA-D00-00-00-00AA-121A-A	
006	Carry out chain checks To do a check of the chain	S1000DBIKE-AAA-D00-00-00-00AA-121A-A	

Wheel

Description of how it is made

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Table 1 References

Data module / Technical publication	Title
None	

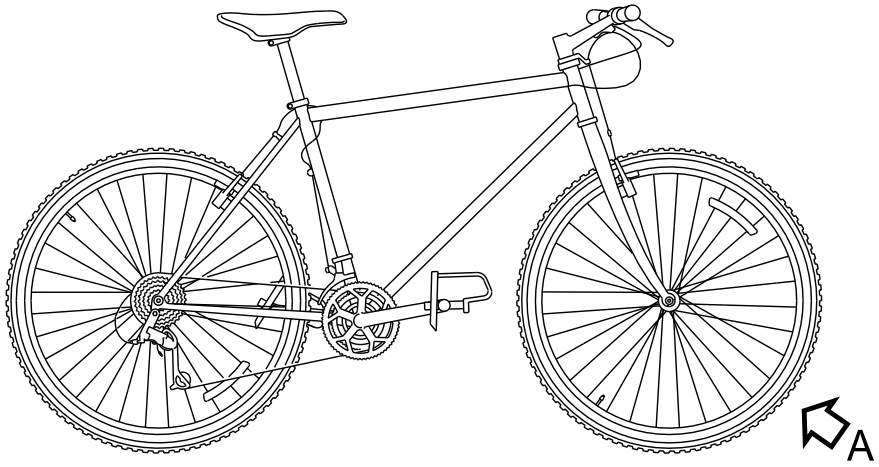
Description

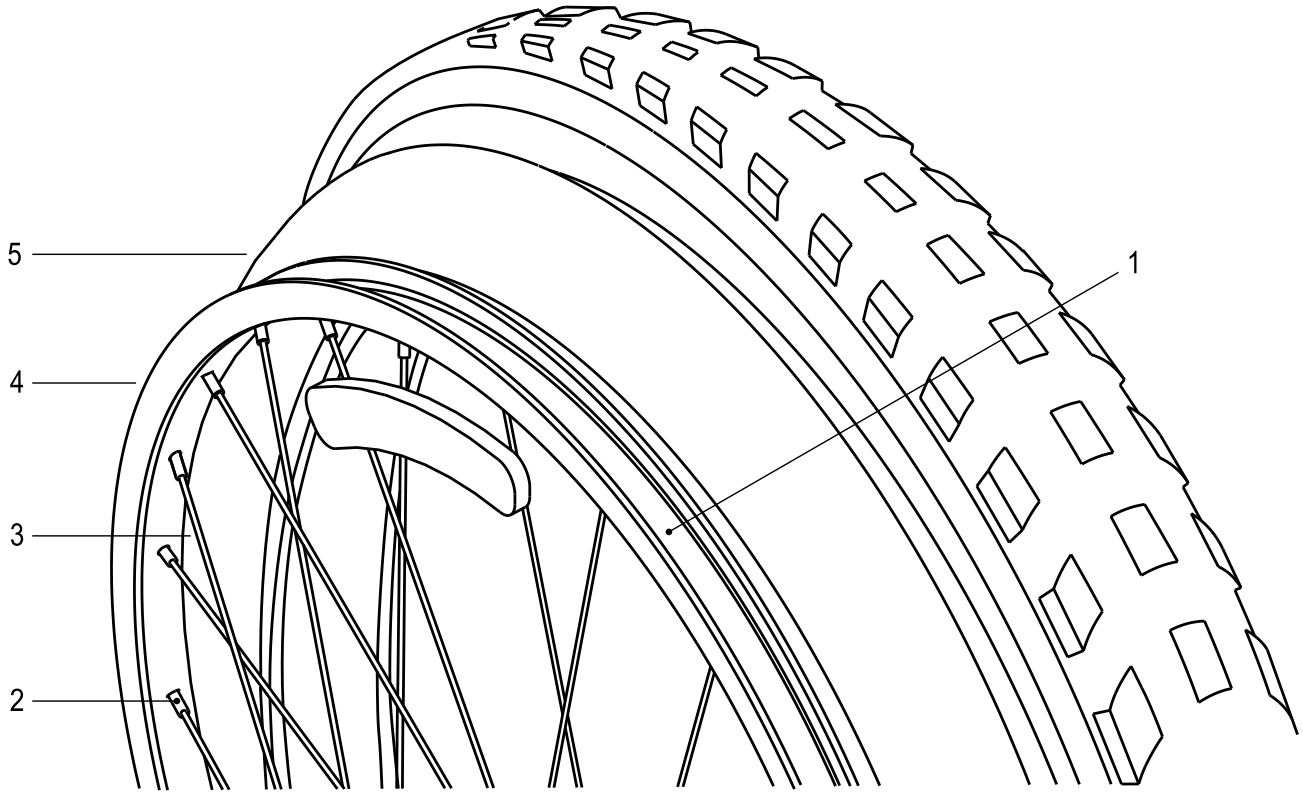
1 The bicycle wheel

The wheel (refer to Fig 1) of a bicycle is a complex structure. The wheel assembly has these parts:

- the tire
- the tube
- the spokes
- the spoke nipples
- the valve
- the hub

On their own, the individual components are not very strong. But, when they are installed together, the components make the complete wheel (refer to Fig 1). The complete wheel is resistant to almost any type of heavy loads and operation.





A

ICN-S1000DBIKE-AAA-DA00000-0-U8025-00504-A-04-1

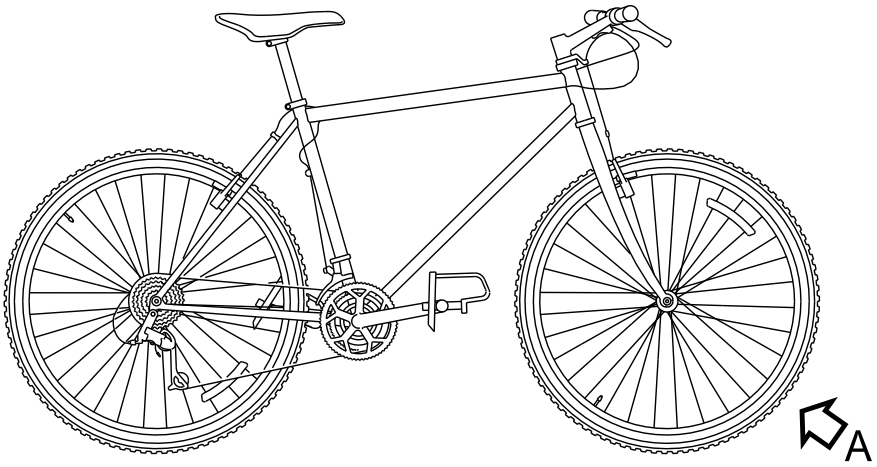
Fig 1 Parts of the wheel

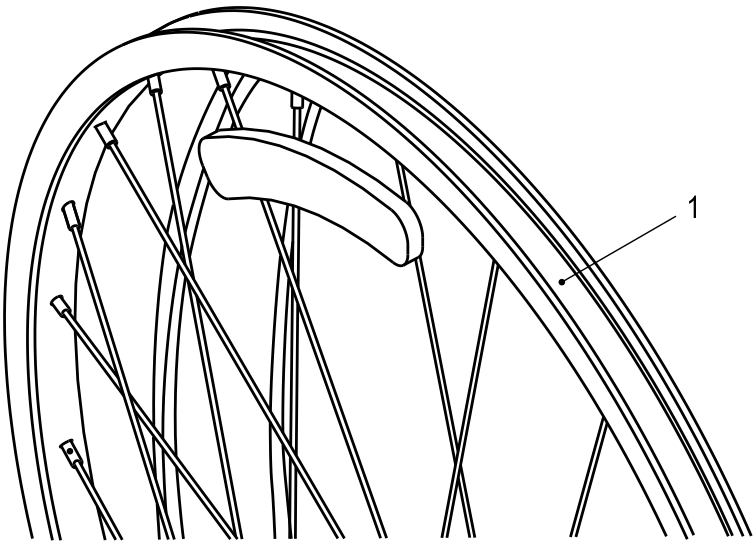
1.1 Spokes

The spokes go out from the hub and go across and below each other. The spoke nipples attach the spokes to the rim with the threads on the end of the spokes. You can use the spoke nipples to adjust the tension of the spokes. The tension on each of the spokes must be equal.

1.2 Wheel rim

The rim (refer to Fig 2) of the wheel has a lining of rim tape. This tape protects the tube from damage that the rough edges on the spoke nipples can cause.





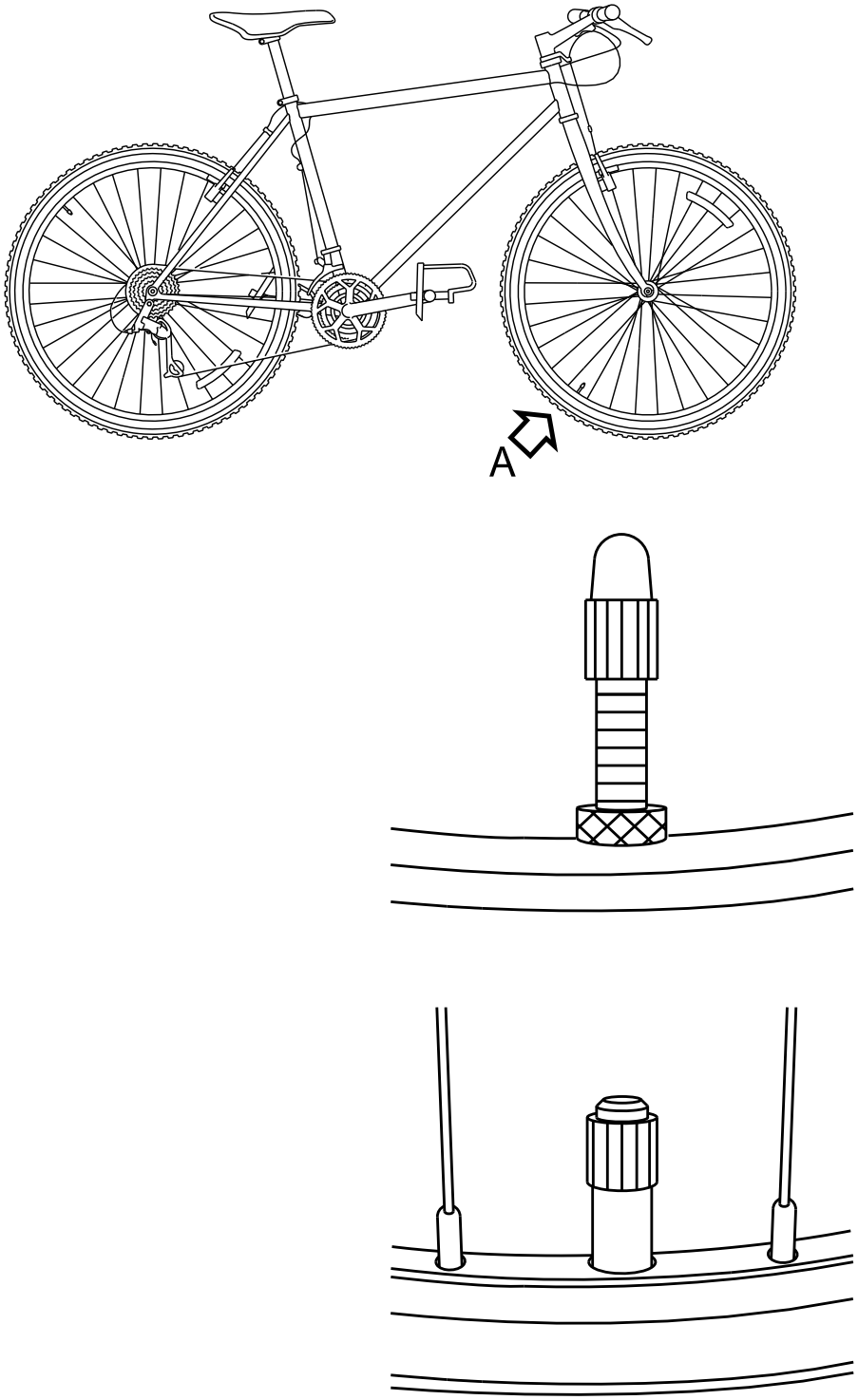
A

ICN-S1000DBIKE-AAA-DA00000-0-U8025-00504-B-04-1

Fig 2 The tire and rim

1.3 Tube and tire

The tube and the tire install on the rim. The sidewalls of the tire have markings on them. These which are used to indicate the correct direction of rotation. The markings also make sure the tire installs on the rim and that the directional arrows points in the correct direction. You install the tube into the tire before you inflate it. The tube has a valve (refer to Fig 3) which you put through the hole in the rim. This valve (refer to Fig 3) is used to inflate the tube and the tire to the correct pressure. A dust cap installs on the valve (refer to Fig 3) to prevent damage that dust and debris can cause.



ICN-S1000DBIKE-AAA-DA00000-0-U8025-00505-A-04-1

Fig 3 Valve

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Inner tube

Remove and install a new item

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA0-10-20-00AA-215A-A	Tire – Fill with air

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
The tire is removed.	S1000DBIKE-AAA-DA0-10-20-00AA-215A-A

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
None			

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
Inner tube	MFR: KT222 /PN: IT-001	1 EA	

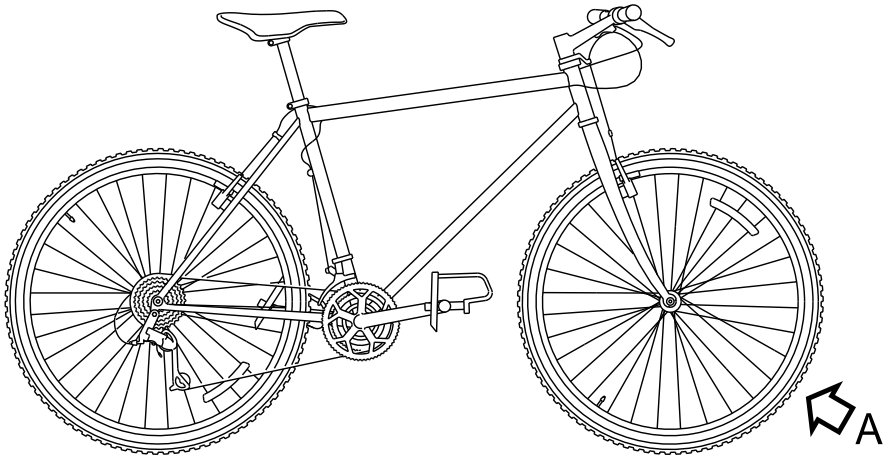
Safety conditions

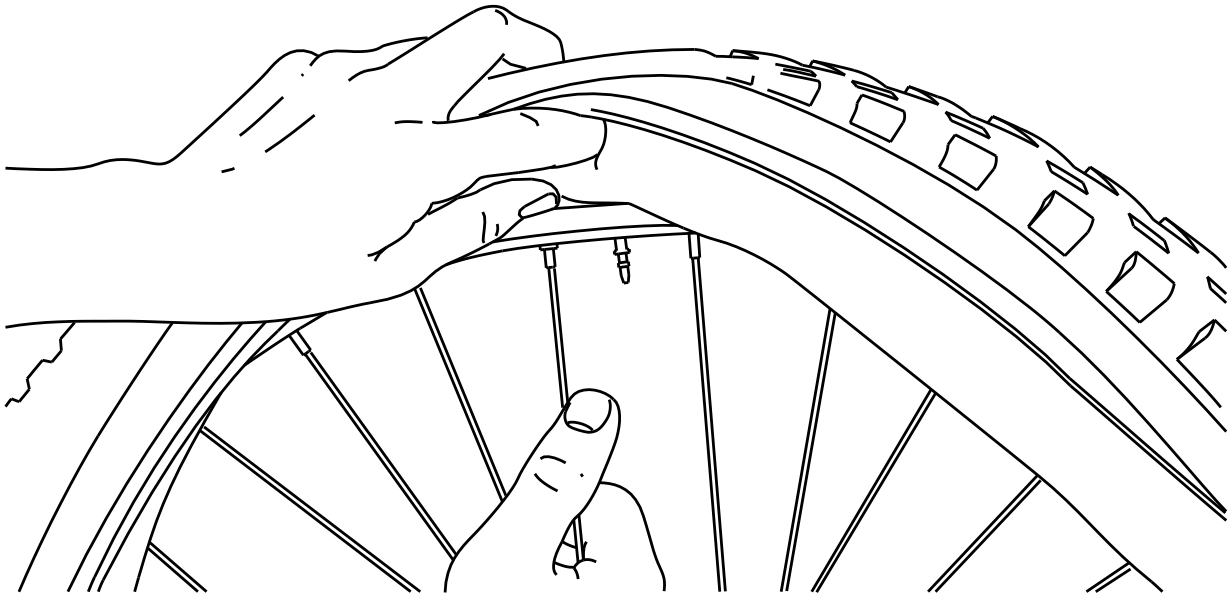
CAUTION

Be careful with sharp or hard tools. They can cause damage to the inner tube.

Procedure

1 Remove the old inner-tube.





A

ICN-S1000DBIKE-AAA-DA00000-0-U8025-00507-A-04-1

Fig 1 Removing the inner tube

2 Install the new Inner tube.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
Replace the tire.	
Inflate the tire with air.	S1000DBIKE-AAA-DA0-10-20-00AA-215A-A

Tire

Fill with air

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List of tables

References

Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	
Foot pump	MFR: KZ666 /PN: BSK-TLST-001-05	1 EA	
Tire pressure gauge	MFR: KZ666 /PN: BSK-TLST-001-01	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Ensure bicycle is on the repair stand.

2 Locate the deflated tire.

3 Attach the outlet valve of the Foot pump, from the Specialist toolset, to the valve of the deflated tire.

4 Inflate the tire.

4.1 Operate the foot pump to pump air into the tire.

4.2 Check tire pressure. Refer to S1000DBIKE-AAA-DA0-10-20-00AA-362B-A

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Intentionally left blank.

Tire

Check pressure

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List of tables

References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA0-10-20-00AA-215A-A	Tire – Fill with air
S1000DBIKE-AAA-DA0-10-10-00AA-921A-A	Inner tube – Remove and install a new item

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Tire pressure gauge	MFR: KZ666 /PN: BSK-TLST-001-01	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Locate the valve stem of tire.

2 Use the tire pressure gauge (Tire pressure gauge) to check the tire pressure.

3 Tire pressure should between 2000 hPa to 2700 hPa.

3.1 If tire pressure is less than 2000 hPa inflate tire. Refer to S1000DBIKE-AAA-DA0-10-20-00AA-215A-A

3.2 If the tire cannot maintain pressure or the tire pressure is greater than 2700 hPa replace the inner tube. Refer to S1000DBIKE-AAA-DA0-10-10-00AA-921A-A

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Intentionally left blank.

Front wheel

Fault reports and isolation procedures

Fault codes

Fault code	Fault description
NYCJD04	Tire does not function correctly

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List of tables

References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA0-10-20-00AA-215A-A	Tire – Fill with air
S1000DBIKE-AAA-DA0-10-20-00AA-921A-A	Tire – Remove and install a new item
S1000DBIKE-AAA-DA0-10-10-00AA-921A-A	Inner tube – Remove and install a new item

Fault isolation procedure

Fault code

NYCJD04

Fault description

Tire does not function correctly

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Support equipment

Table 3 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Tire pressure gauge	MFR: KZ666 /PN: BSK-TLST-001-01	1 EA	
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 4 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 5 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Isolation procedure

1 Use the tire pressure gauge (Tire pressure gauge) to do a check of the pressure

What is the tire pressure reading?

1.1 More than 2700 hPa Step 2

1.2 Between 100 hPa and 2700 hPa Step 3

1.3 Less than 100 hPa Step 4

2	Deflate the tire until the pressure is 2700 hPa
	Go to requirements after job completion
3	Inflate the tire as given in S1000DBIKE-AAA-DA0-10-20-00AA-215A-A
	Go to requirements after job completion
4	To do a check of the tire for damage
	Is there damage to the tire?
4.1	Yes: Go to Step 5
4.2	No: Go to Step 6
5	Replace the tire (refer to S1000DBIKE-AAA-DA0-10-20-00AA-921A-A)
	Go to requirements after job completion
6	Replace the inner-tube (refer to S1000DBIKE-AAA-DA0-10-10-00AA-921A-A)
	Go to requirements after job completion

Requirements after job completion

Required conditions

Table 6 Required conditions

Action / Condition	Data module / Technical publication
None	

Intentionally left blank.

Tire

Remove and install a new item

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List of tables

References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA1-00-00-00AA-341A-A	Brake system – Manual test
S1000DBIKE-AAA-DA0-10-20-00AA-215A-A	Tire – Fill with air

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	
Tire lever	MFR: KZ666 /PN: BSK-TLST-001-04	1 EA	
Tire pressure guage	MFR: KZ666 /PN: BSK-TLST-001-01	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
Tire	MFR: KT666 /PN: TIRES-010101	1 EA	

Safety conditions

None

Procedure

1 Lift and turn the bicycle and make sure the bicycle is held safely in this position.

2 Use a standard wrench from the Specialist toolset and loosen the brake caliper.

3 Remove the axle bolt.

4 Remove the wheel.

5 Deflate the tire.

6	Use the Tire lever from the Specialist toolset and remove the old tire from the wheel.
7	Use the Tire lever from the Specialist toolset and attach the new Tire to the wheel. Refer to S1000DBIKE-AAA-DA0-00-00-00AA-041A-A
8	Inflate the tire (refer to S1000DBIKE-AAA-DA0-10-20-00AA-215A-A).
9	Install the wheel.
10	Tighten the axle bolt.
11	Tighten the brake caliper.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
Lift and turn the bicycle to the correct position.	
Do a test of the brakes as given in the brake test procedure.	S1000DBIKE-AAA-DA1-00-00-00AA-341A-A

Intentionally left blank.

Rear wheel

Detected fault

Fault codes

Fault code	Fault description
NYCJD00	The rear wheel does not operate correctly

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List of tables

References

Table 1 References

Data module / Technical publication	Title
None	

Fault reporting

Fault code

NYCJD00

Fault description

The rear wheel does not operate correctly

Fault detection

Type: Major

1 Detected LRU

Line replaceable unit

Nomenclature	Identification
Tire	MFR: KT666/PN: TIRES-010101

Isolate detected fault

1 Fault isolation test – LRU

Line replaceable unit

Nomenclature	Identification
Rear wheel	MFR: KZ333/PN: WH-001

Remarks

Prepare the rear wheel for the removal of the tire

Rear wheel

Remove procedures

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List of tables

References

Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
As required				

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
None			

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Hold the rear of the bicycle.

2 Push the wheel forwards and down to disengage the chain from the sprocket.

3 Turn the wheel to the side and lift it away from the frame.

4 Put the frame on the floor.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Brake system

Description of how it is made

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References

Table 1 References

Data module / Technical publication	Title
None	

Description

1 Brake system

The most important part of the bicycle is the brake system. Only a minimum maintenance of the brake system is necessary. But, when a problem does occur, make sure you to do the necessary maintenance as quickly as possible. If you do not do this the bicycle will be dangerous to use.

There are nine different types of brake systems. The one found on most bicycles is the cantilever brake (refer to Para 1.1).

1.1 Cantilever brake

The brake system (refer to Fig 1) has these primary components:

the brake lever (refer to Para 1.3)

the brake cable
the brake arm
the brake clamp (also known as callipers)
the brake pads (refer to Para 1.2)

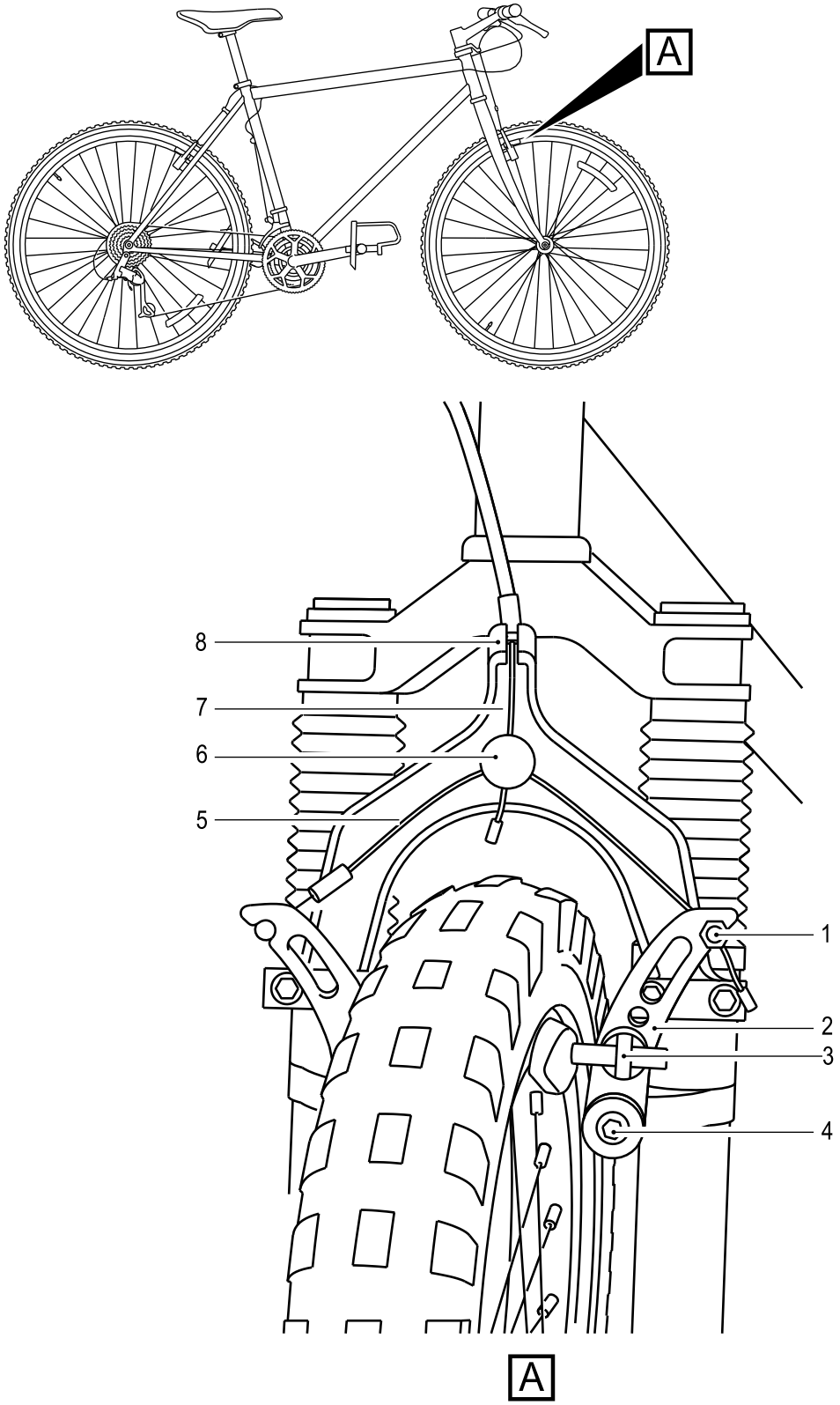

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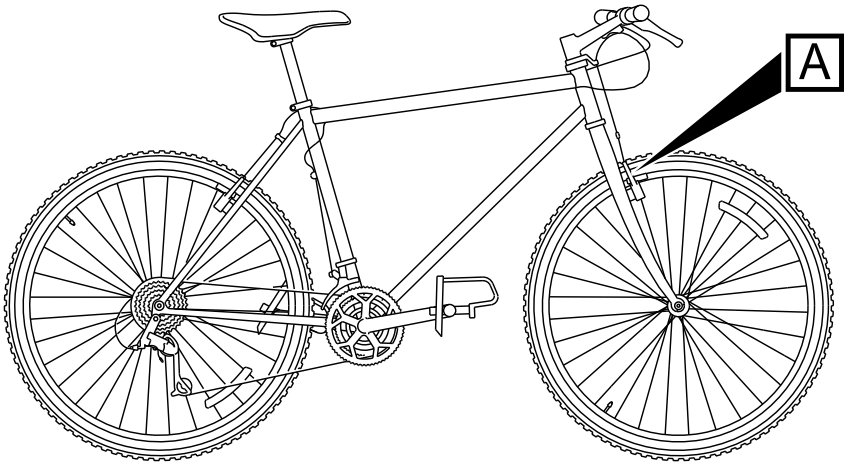
Fig 1 Cantilever brake with straddle cable

A cable that goes from the brake levers on the handlebars pulls the two levers on the brakes together. This presses the brake pads against the outer rim of the wheel, which decreases the speed of the bicycle.

1.2 Brake pads

There are four brake pads (refer to Fig 2) on the bicycle. Two are found on the front wheel and two on the rear wheel. The brake pads are made out of hard wearing rubber. The pads press against the rim of the wheel to cause friction when the you operate the brake levers.



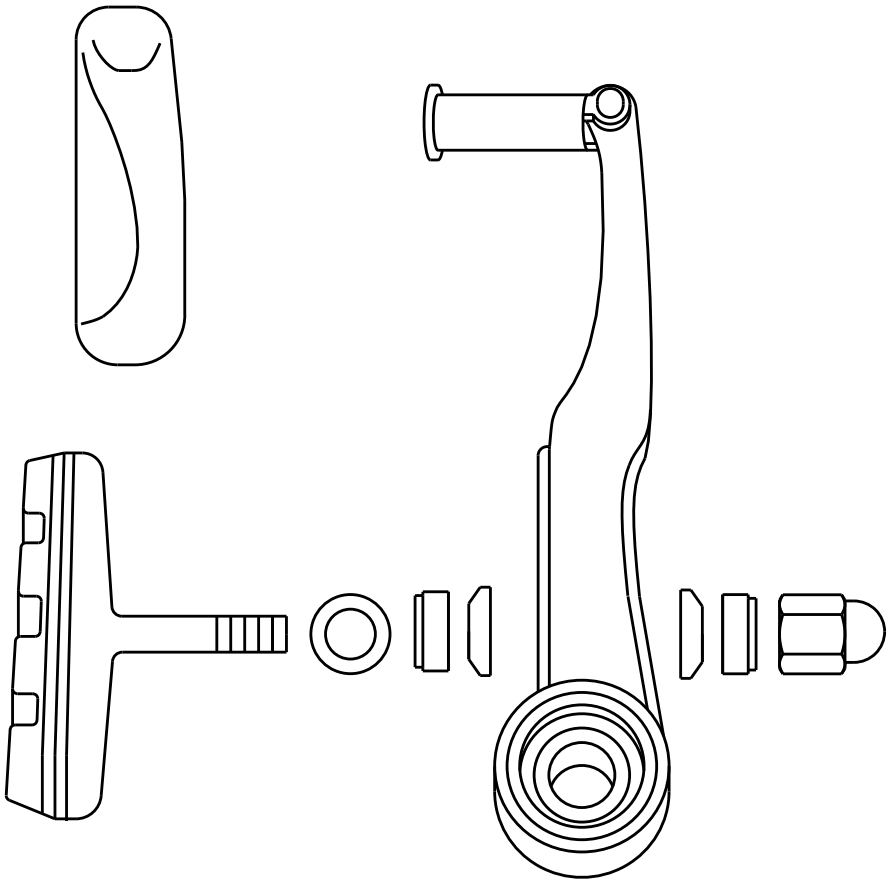


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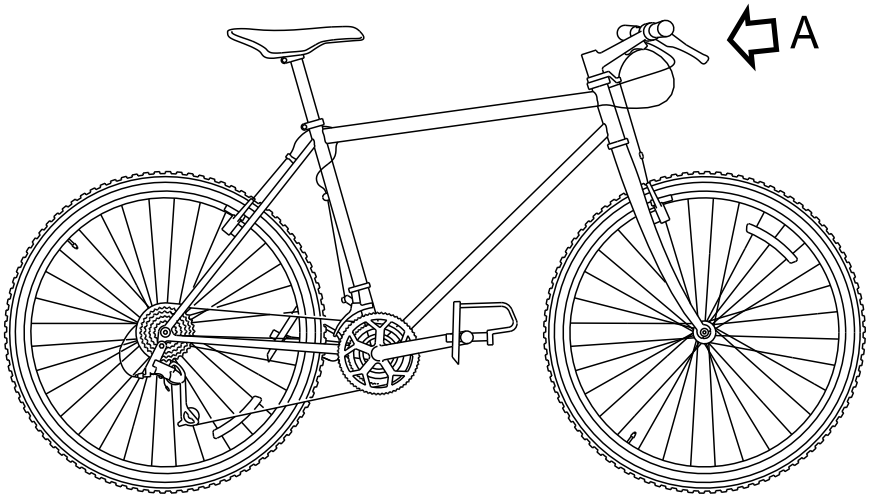
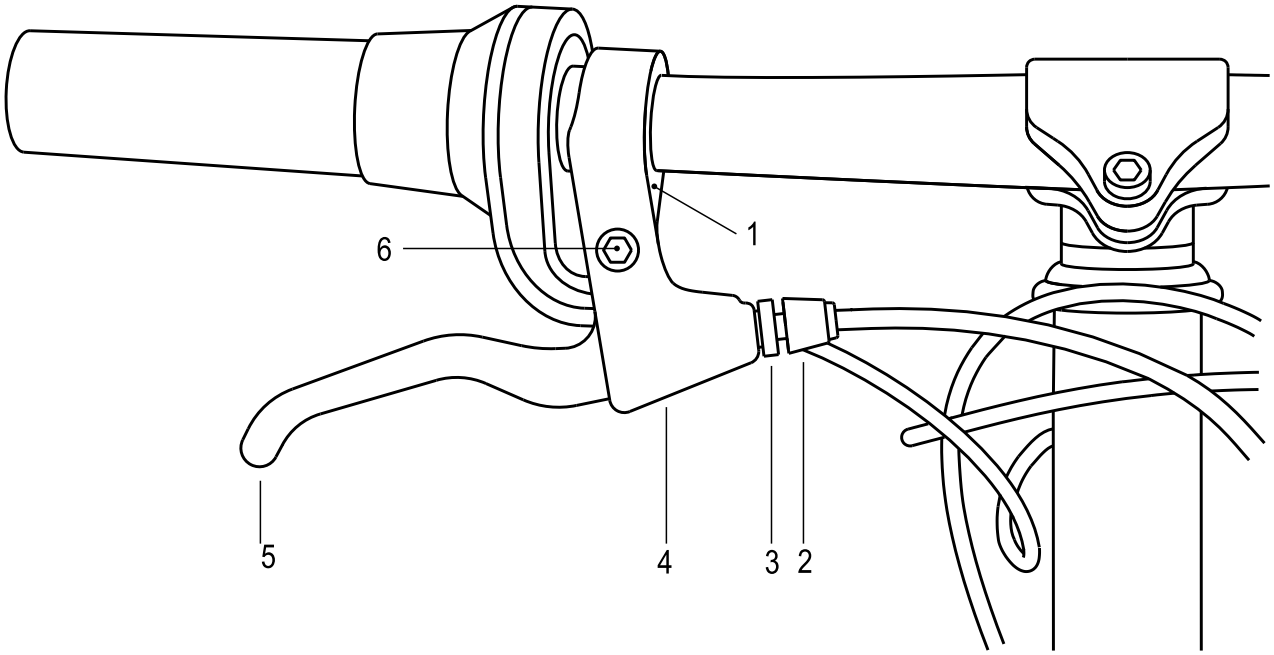
Fig 2 Exploded diagram of a brake

1.3 Brake lever

The brake levers (refer to Fig 3) are easily damaged. The lever is installed in the mount. A clamp bolt holds the mount. This bolt is not visible because it is found in the mount. The lever turns on a lever pivot bolt. The adjuster lock nut holds the brake cable. This lock nut adjusts the tension of the cable.





ICN-S1000DBIKE-AAA-DA10000-0-U8025-00514-A-04-1

Fig 3 Typical components of a mountain bicycle lever

The left brake lever holds the brake pads on the front wheel and the right brake pads hold the brakes on the rear wheel.

Brake system

Manual test

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References

Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
None			

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Put the bicycle in a vertical position.

2 Hold the handle bars and push the bicycle forwards.

3 Apply the brakes.

4 Make sure that the wheels lock and the bicycle stops.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Brake pads

Clean with rubbing alcohol

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-D00-00-00-00AA-121A-A	Bicycle – Pre-operation procedures (crew)

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
None			

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
Rubbing alcohol	MFR: KZ222 /PN: LL-002	As required	

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Do a visual inspection of the brakes as given in the pre-ride checks (refer to S1000DBIKE-AAA-D00-00-00-00AA-121A-A).

2 Clean the brake pads.

2.1 Find each of the brake pads.

2.2 Apply a thin layer of the Rubbing alcohol on each of the brake pads.

2.3 Rub the surface until you have applied the Rubbing alcohol to the complete surface of the pad.

2.4 Remove the unwanted alcohol.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

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Steering

Description of how it is made

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA2-20-00-00AA-520A-A	Handlebar – Remove procedures
S1000DBIKE-AAA-DA2-20-00-00AA-720A-A	Handlebar – Install procedures
S1000DBIKE-AAA-DA2-30-00-00AA-041A-A	Headset – Description of how it is made
S1000DBIKE-AAA-DA2-30-00-00AA-520A-A	Headset – Remove procedures
S1000DBIKE-AAA-DA2-30-00-00AA-720A-A	Headset – Install procedures
S1000DBIKE-AAA-DA2-10-00-00AA-520A-A	Stem – Remove procedures
S1000DBIKE-AAA-DA2-10-00-00AA-720A-A	Stem – Install procedures

Description

1 Steering

The steering on the bike is what enables the bike to manoeuvre in a given direction during travel. The steering system on the bike is made of three parts, they are:

Para 1.1 The handlebar
Para 1.2 The headset
Para 1.3 The stem

1.1 Handlebar

This consists of a horizontal bar attached to the stem with handgrips at the end. Brake levers and shifters are also attached to this bar although they do not have any part in the steering mechanism. The handlebars manoeuvrability is a sideways swivelling action. The handlebars themselves do not provide this swivelling, the headset (also known as the steering tube) is the mechanism that enables the handlebars to swivel.

1.2 Headset

This mechanism is situated in front of the frame and connects the front fork to the stem and handlebars. The headset allows the handlebars to swivel left and right for steering purposes.

For a full description of the headset, refer to S1000DBIKE-AAA-DA2-30-00-00AA-041A-A .

1.3 Stem

The stem is a piece that attaches the handlebar to the steering tube. Basically the stem is just a threaded stem bolt situated inside the steerer tube and is what attaches the handlebars to the headset.

Stem

Remove procedures

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA2-20-00-00AA-520A-A	Handlebar – Remove procedures

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
Safety the bicycle in a bicycle stand and hold the front wheel off the ground	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Bike Rider	Intermediate	Operator	1,5 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Set of Allen wrenches	MFR: KZ666 /PN: BSK-TLST-001-13	1 EA	
Work stand	MFR: KZ555 /PN: Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

Note 1

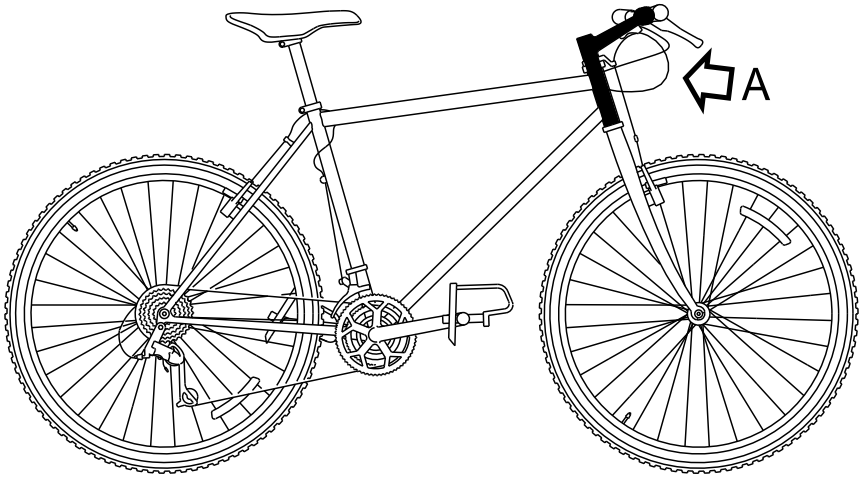
It is not necessary to remove the handlebar when you remove the stem to get access to the headset.

Procedure

1 Remove the handlebar S1000DBIKE-AAA-DA2-20-00-00AA-520A-A

2 Remove the stem.

2.1 Remove the bolt in the center of the stem cap.



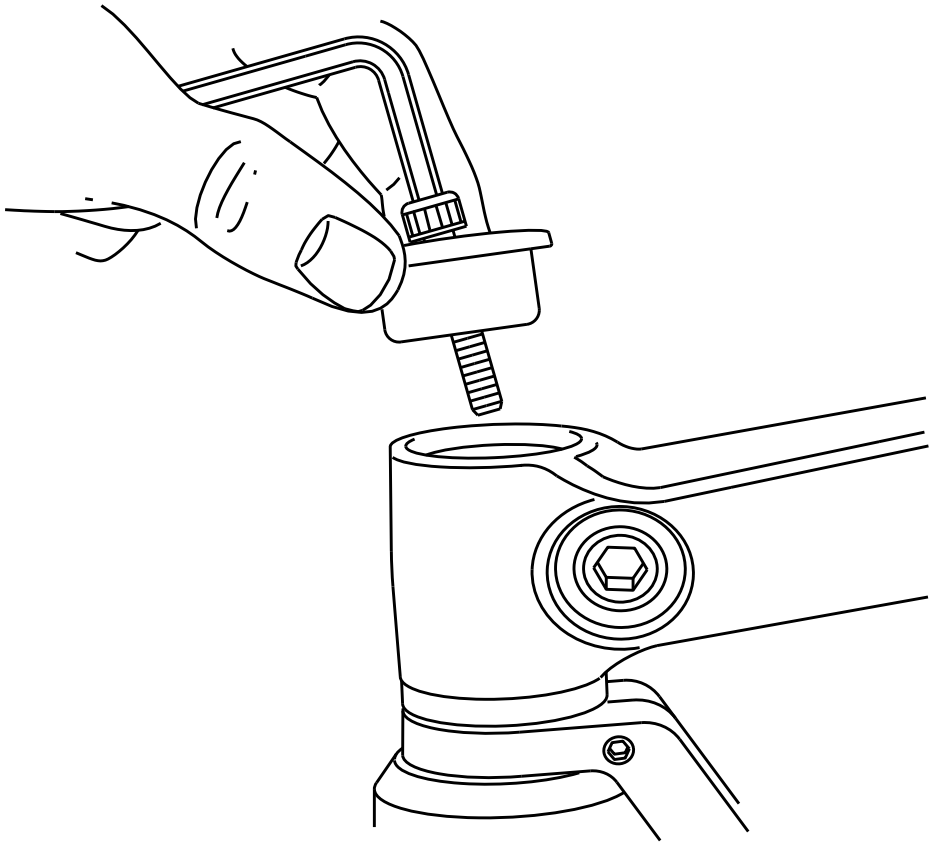


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Fig 1 Remove the bolt

2.2 Loosen the stem clam bolt with a Set of Allen wrenches.

2.3 Remove the stem from the steerer tube.

2.4 Note: It is not necessary to remove the handlebar if you remove the stem to get access to the headset.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Stem

Install procedures

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA2-20-00-00AA-720A-A	Handlebar – Install procedures

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
Make sure the bicycle is held safely on a work stand with the front wheel free of the ground	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Bike Rider	Intermediate	Operator	1,0 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Clean dry cloth	MFR: KZ666 /PN: BSK-TLST-001-12	1 EA	
Work stand	MFR: KZ555 /PN: Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
Rubbing alcohol	MFR: KZ222 /PN: LL-002	1 L	
General lubricant	MFR: KZ222 /PN: LL-001	1 L	

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
Stem	MFR: KZ555 /PN: St-001	1 EA	
Stem bolt	MFR: KZ555 /PN: St-001-01	1 EA	

Safety conditions

CAUTION

Do not tighten the stem bolt too much. You can cause damage to the headset bearings if you tighten the stem too much.

CAUTION

The stem bolt does not safety the stem.

Note 1

The stem must point forward in alignment with the wheel.

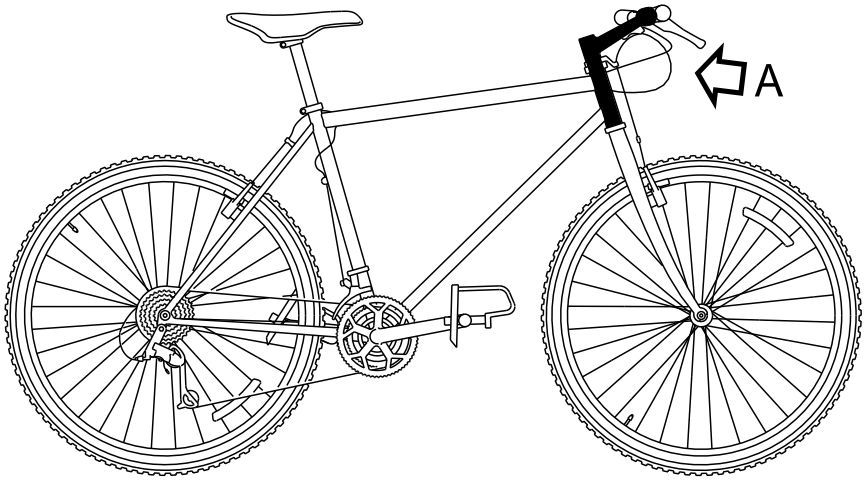
Procedure

1 Remove all the rust and the corrosion with a Clean dry cloth and Rubbing alcohol.

2 Install the stem.

2.1 Use a General lubricant and lubricate:

- the threads of the Stem and Stem bolt
- the sides
- the top of the wedge



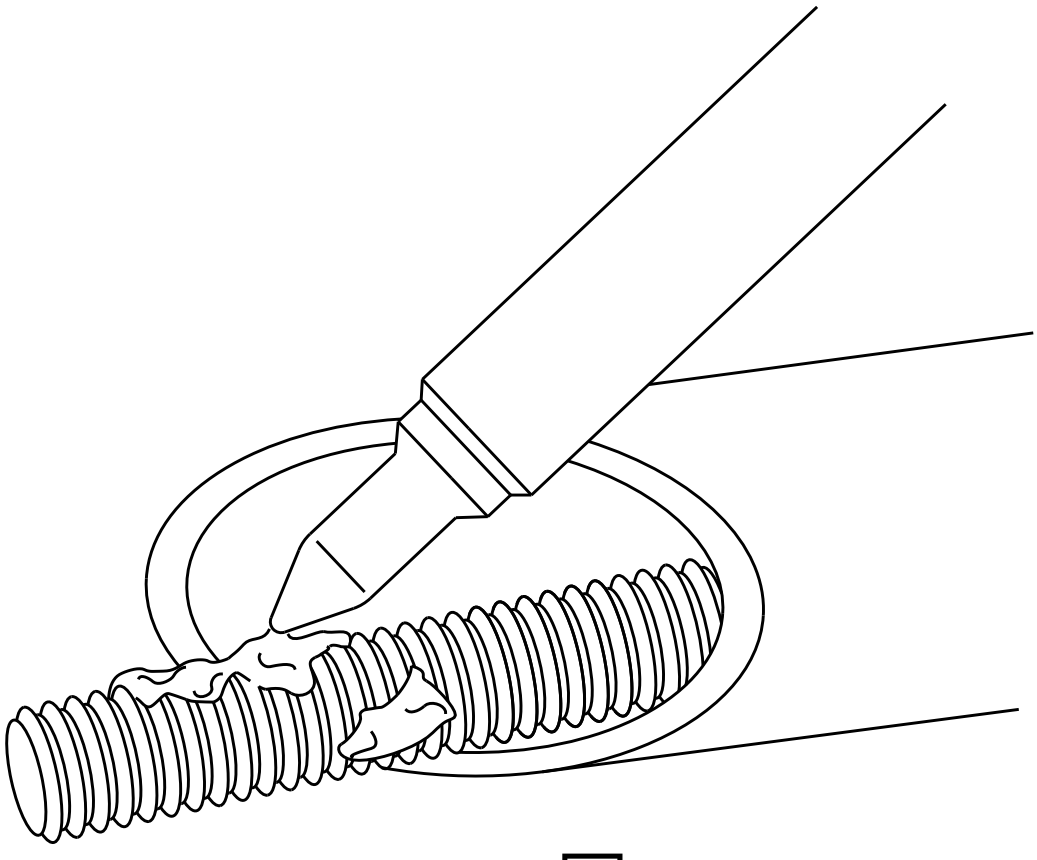


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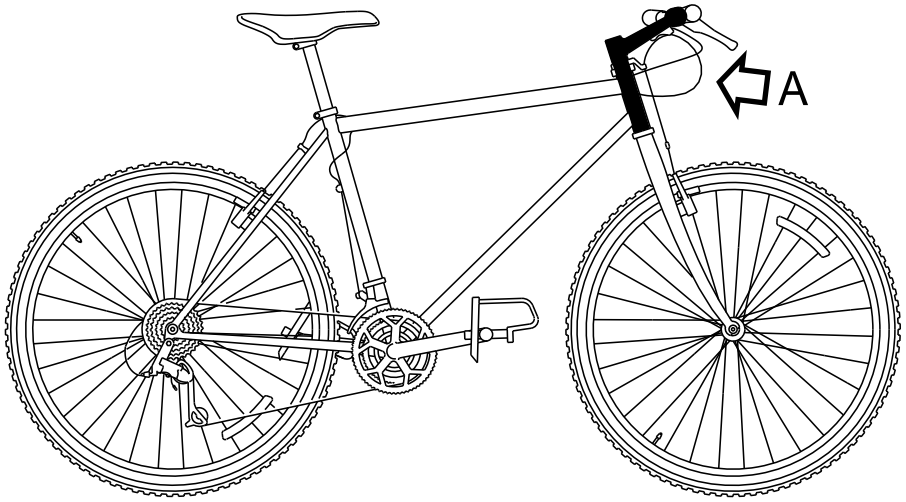
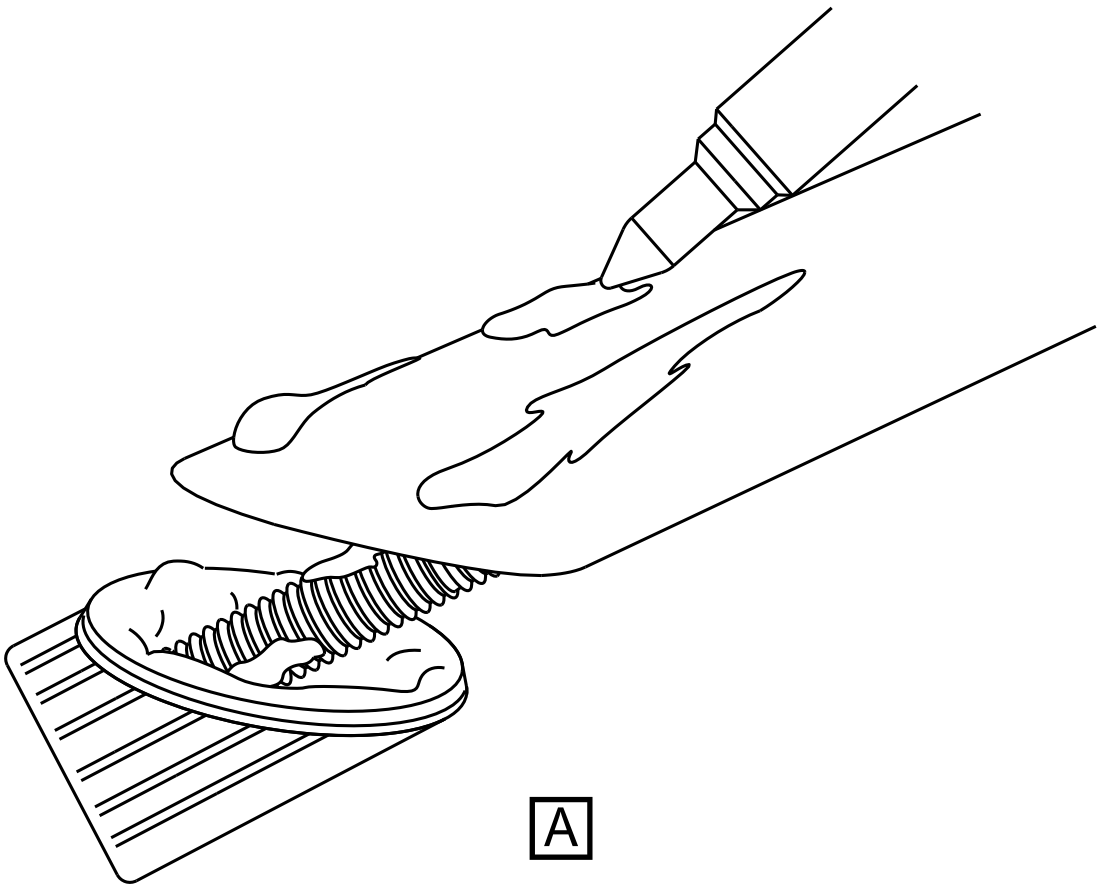
Fig 1 Lubricate the thread

2.2 Install the Stem in the steerer tube.





ICN-S1000DBIKE-AAA-DA21000-0-U8025-00530-A-04-1

Fig 2 Tighten the bolt

2.3 Adjust to align the Stem with the wheel and tighten the Stem bolt firmly.

3 Install the handlebars (refer to S1000DBIKE-AAA-DA2-20-00-00AA-720A-A).

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

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Handlebar

Remove procedures

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Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
The bicycle is held safely on a work stand.	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Bike rider	Intermediate	Operator	1,5 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Set of Allen wrenches	MFR: KZ666 /PN: BSK-TLST-001-13	1 EA	
Work stand	MFR: KZ555 /PN: Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

WARNING

Do not ride a bicycle with no grips on the handlebar.
This can cause the hands of the rider to slip.

Procedure

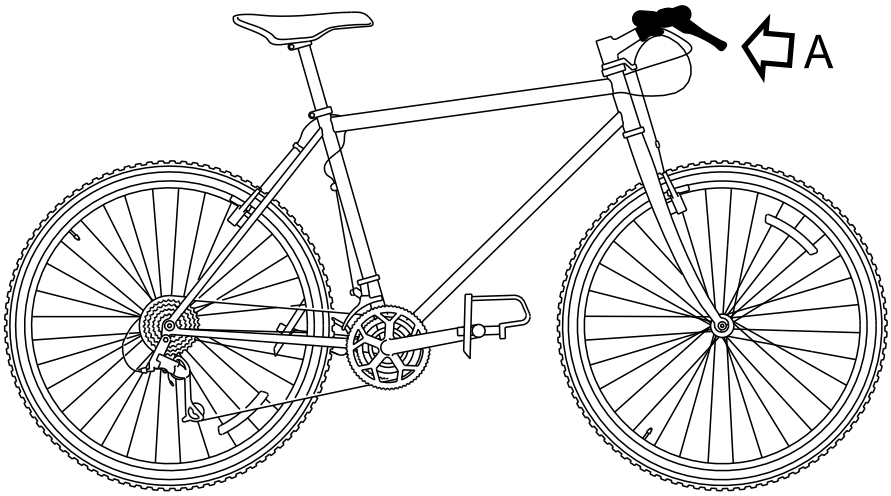
1 Remove the grips

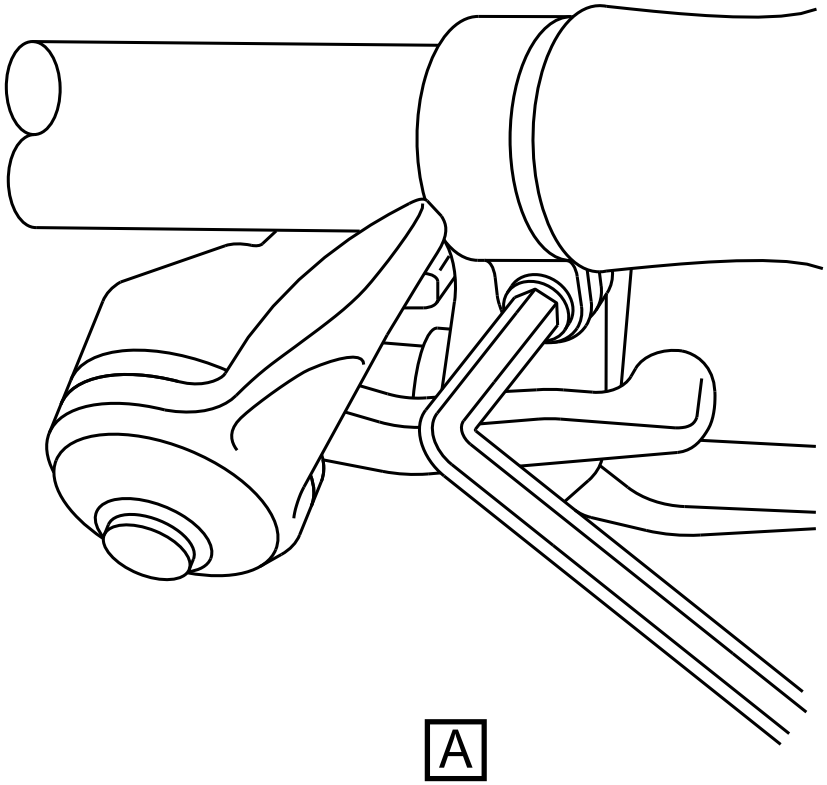
1.1 Put a long thin screwdriver below the grip and apply water between the grip and the handle bar.

1.2 Turn the grip forwards and rearwards to loosen it and then pull it off the end of the handlebar.

2 Remove the brake and the shift levers from the handlebars

2.1 Loosen the clamp screw (refer to Fig 1) which is behind or below the brake lever (as shown).





ICN-S1000DBIKE-AAA-DA22000-0-U8025-00518-A-04-1

Fig 1 Loosen the clamp screw with the Allen wrench

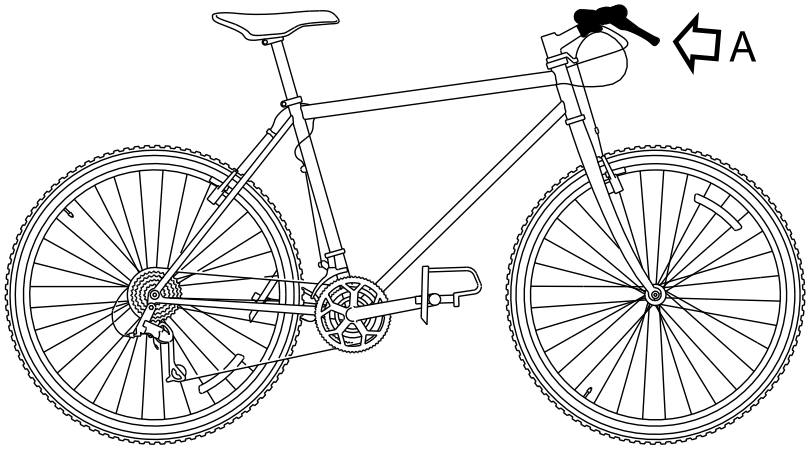
2.2 Remove the lever and the mount from the handlebar.

2.3 Loosen the clamp bolt and remove the shifter from the handlebar.

3 Remove the handlebar

This is a dummy paragraph, inserted only for Svante's strang requests.

Use a Set of Allen wrenches and loosen the clamp bolt (refer to Fig 2). To remove, move the handlebar out of the stem.



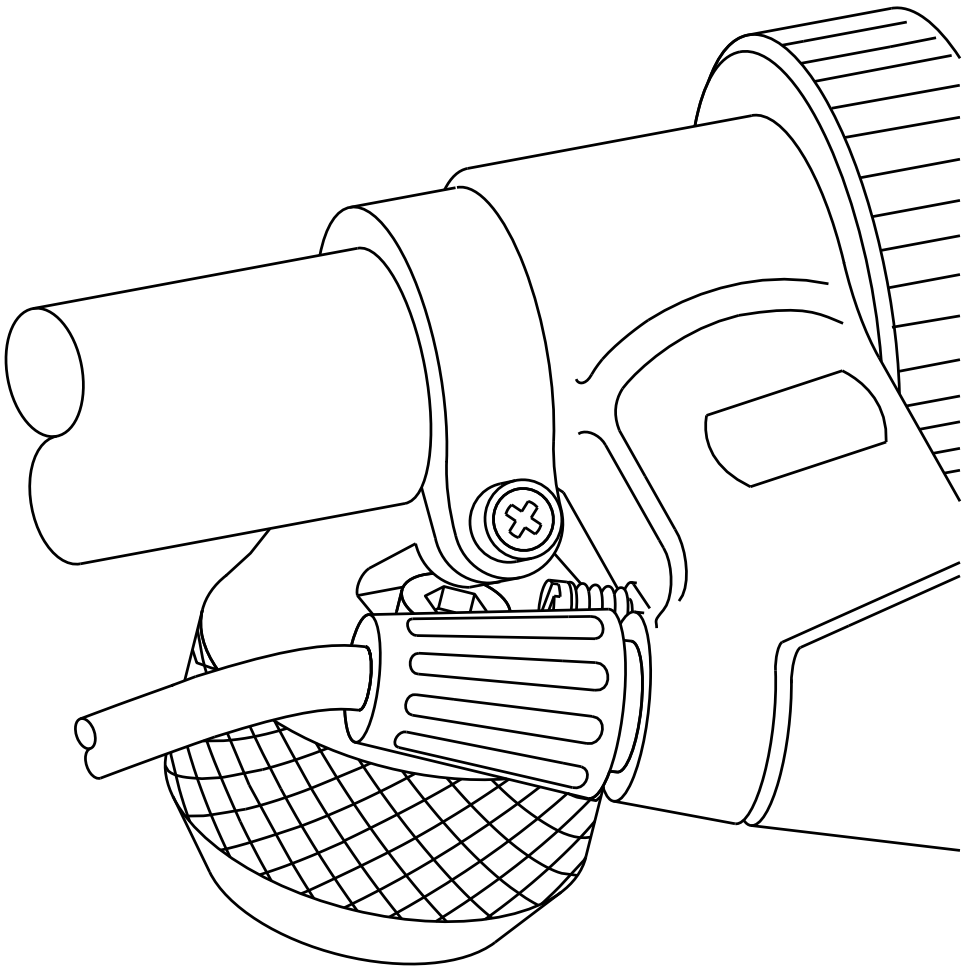


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Fig 2 Loosen the clamp bolt

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Intentionally left blank.

Handlebar

Install procedures

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References

Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
The bicycle is held safely on work stand. Refer to (Work stand)	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Bike rider	Intermediate	Operator	1,5 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Set of Allen wrenches	MFR: KZ666 /PN: BSK-TLST-001-13	1 EA	
Extra firm hold hairspray	MFR: HS111 /PN: HSP-D001	1 EA	
Work stand	MFR: KZ555 /PN: Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
Handlebar	MFR: KZ555 /PN: Hd-001	1 EA	
Brake lever	MFR: KT444 /PN: BR-LVRS-001	1 EA	
Shifter lever	MFR: KZ555 /PN: SI-001	1 EA	
Brake lever mount	MFR: KT444 /PN: BR-LVRS-001-01	1 EA	
Handlebar grips	MFR: KZ555 /PN: Hd-001-01	1 EA	
Handlebar plug	MFR: KZ555 /PN: Hd-001-02	1 EA	

Safety conditions

WARNING

Do not ride the bicycle until the grips have become dry and are firmly held in position. If the grips are wet, your hands can move off the grips when you ride the bicycle.

WARNING

Do not ride a bicycle with no grips on the handlebar.

CAUTION

Make sure the handlebar is correctly aligned in the center of the stem.

Procedure

1 Put the Handlebar in the stem and tighten the clamp bolt with a Set of Allen wrenches. Make sure the handlebar is correctly aligned in the center of the stem. Tighten the clamp bolt.

2 Put the Brake lever and Shifter lever on the handlebar.

2.1 Move the Shifter lever on the Handlebar again and make sure you do not catch the cables.

2.2 Tighten the clamp bolt.

2.3 Move the Brake lever mount and the brake lever on the Handlebar again.

2.4 Tighten the clamp screw.

3 Replace the Handlebar grips.

3.1 Apply with the Extra firm hold hairspray to the Handlebar grips area of the Brake lever mount.

3.2 Before the Extra firm hold hairspray becomes dry, move the Handlebar grips into the correct position. Make sure the grip protects the end of the Handlebar or install a Handlebar plug.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Intentionally left blank.

Headset

Description of how it is made

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References

Table 1 References

Data module / Technical publication	Title
None	

Description

1 Headset

The headset (refer to Fig 1) is a pair of bearings on the two ends of the head tube of the frame. These bearings permit the fork to turn rearward and forward (for example, to let the rider turn the handlebars for the steering).

The headset (refer to Fig 1) includes the parts that follow:

The bearing races that push into the head tube
a bearing race that pushes on the fork steerer tube
an adjustable upper race
two sets of ball bearings

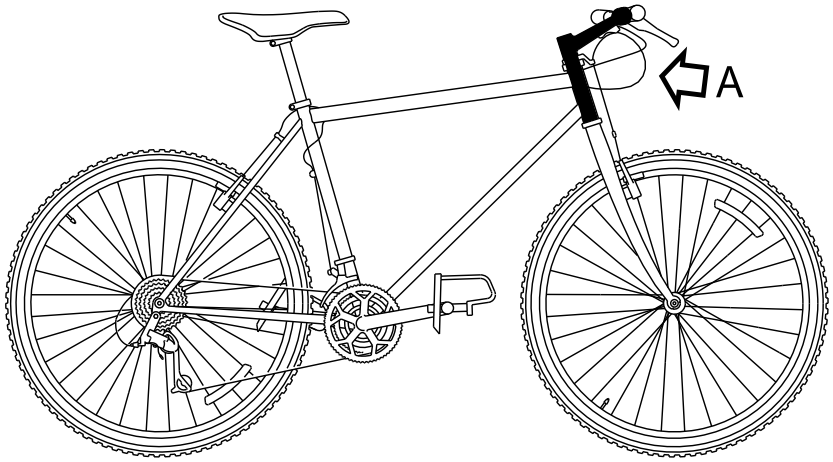
A headset has cups that are pushed into the head tube and a ring on the fork. All three must be fully parallel. It is usually necessary to remove rough paint to get all three fully parallel.

The upper race installs onto the steerer tube with a thread. A locknut is used to safety the upper race.

A clamp bolt holds the stem to the steerer tube.

The fourth remaining bearing race is part of a nut that installs on the threaded top end of the fork. This is done after you install it in the head tube. It is sometimes necessary for some headsets to have more thread at the top of the head tube. If the fork is too long, the spacer rings can be installed. If it is too short, there is a limit to the number of headsets you can use.

For an illustration of the parts of the headset (refer to Fig 1).



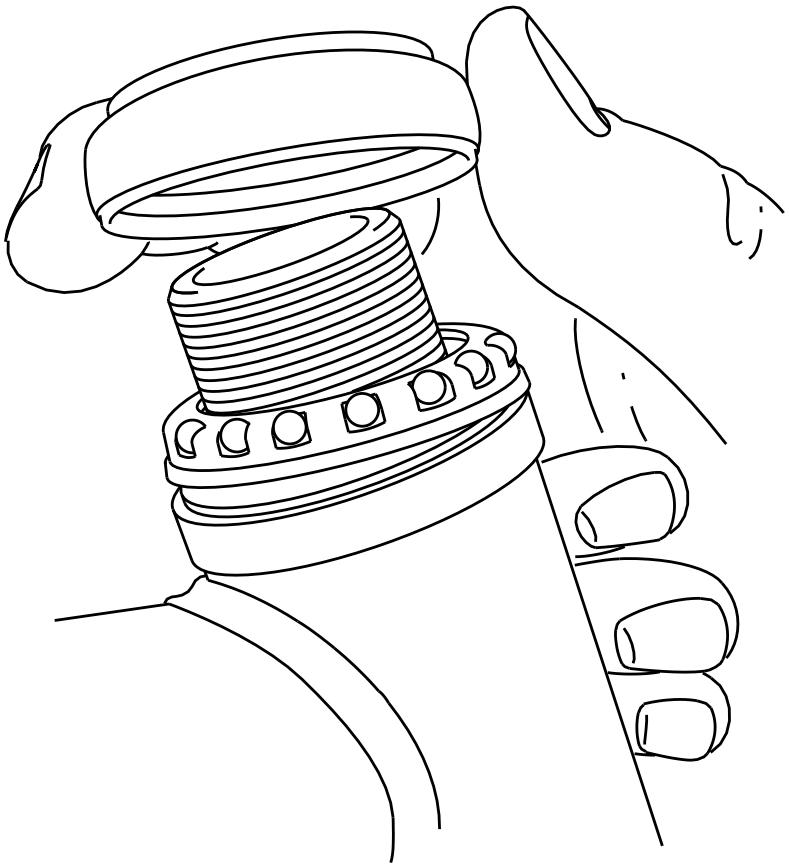


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Fig 1 Headset

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Headset

Remove procedures

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA2-10-00-00AA-520A-A	Stem – Remove procedures

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
The bicycle is safely held on a work stand	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Bike Rider	Intermediate	Operator	0,5 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Work stand	MFR: Bikey /PN: Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

Note 1

It is not necessary to remove the handlebar for this procedure.

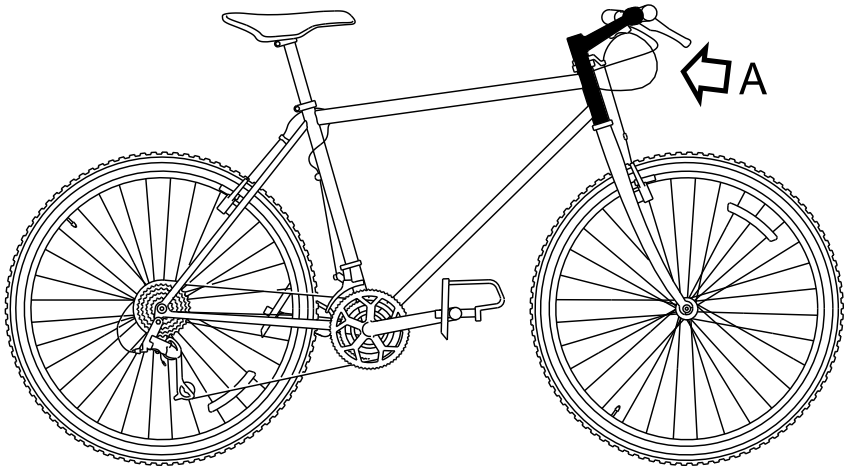
Procedure

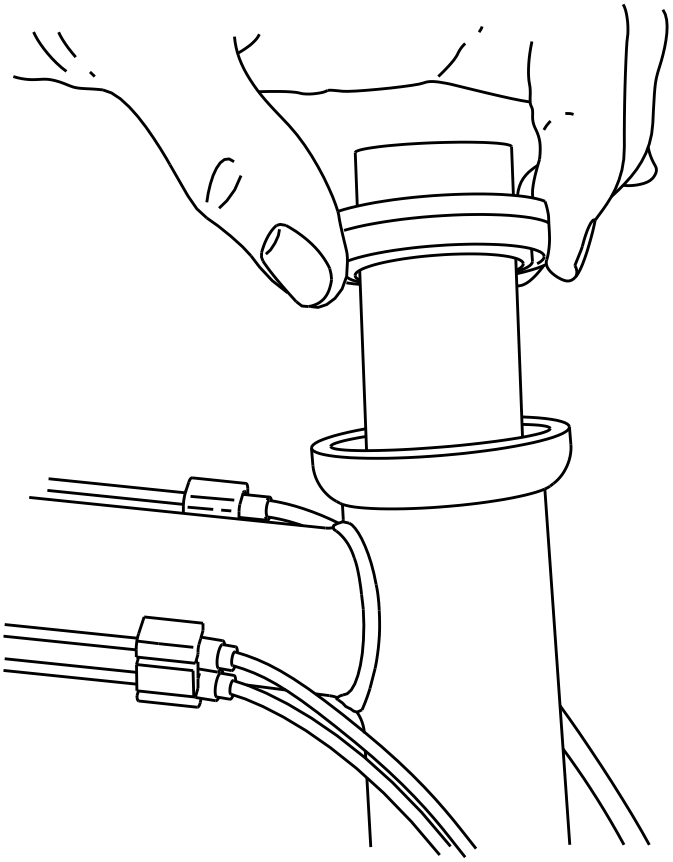
1 Remove the stem (refer to S1000DBIKE-AAA-DA2-10-00-00AA-520A-A).

2 Remove:

the spacers
the brake cable hangar
the dust seals
the conical expansion washer(s) from the steerer tube

3 Lift the upper bearing cup off (refer to Fig 1) and then remove the fork from the frame.





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ICN-S1000DBIKE-AAA-DA23000-0-U8025-00532-A-04-1

Fig 1 Lift the upper bearing cup

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Headset

Install procedures

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List of tables

References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA2-10-00-00AA-720A-A	Stem – Install procedures

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
The bicycle is safely held on a work stand	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Bike Rider	Intermediate	Operator	1,5 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Work stand	MFR: Stand /PN: Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
Frame fork	MFR: KZ555 /PN: St-001-02	1 EA	
Upper bearing cup	MFR: KZ555 /PN: St-001-03	1 EA	
Brake cable hangar	MFR: KT444 /PN: BR-LVRS-002	1 EA	
Dust seal	MFR: KZ555 /PN: St-001-04	1 EA	
Conical expansion washer	MFR: KZ555 /PN: St-001-05	1 EA	

Safety conditions

None

Procedure

1 Install the Frame fork on the frame.

2 Install the Upper bearing cup.

3 Install the components that follow on the steering tube:

the Brake cable hangar
the Dust seal
the Conical expansion washer

4 Install the stem (refer to S1000DBIKE-AAA-DA2-10-00-00AA-720A-A).

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

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Frame

Description of how it is made

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References

Table 1 References

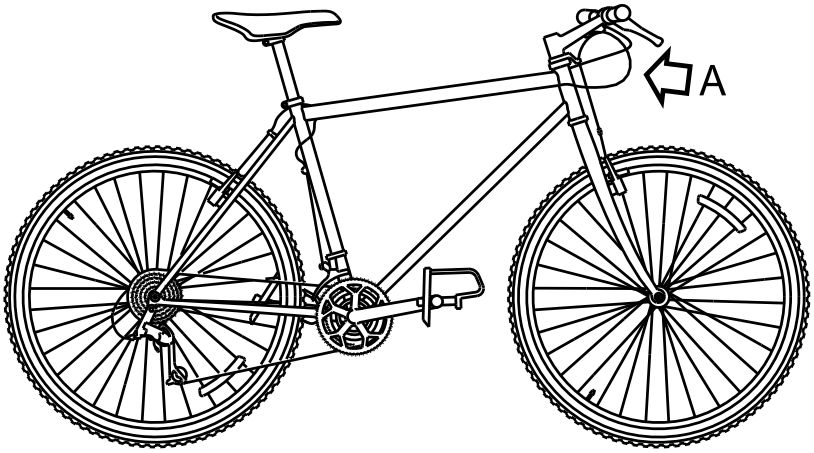
Data module / Technical publication	Title
None	

Description

1 The bicycle frame

The frame is the skeleton, the primary part of your bicycle. Its structure makes the bicycle resistant to large forces.

The initial frames (refer to Fig 1) were tubes of aluminum or steel welded together.



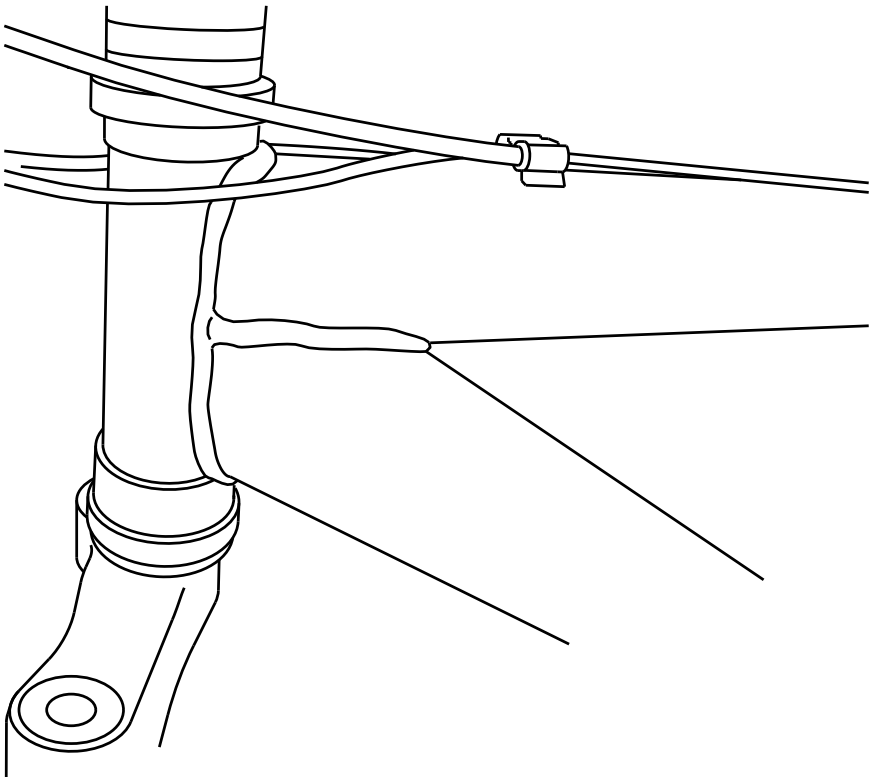


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Fig 1 Welded frame joints

Subsequent frames (refer to Fig 2) can be made out of a wide variety of materials, including aluminium, titanium, or chrome moly.

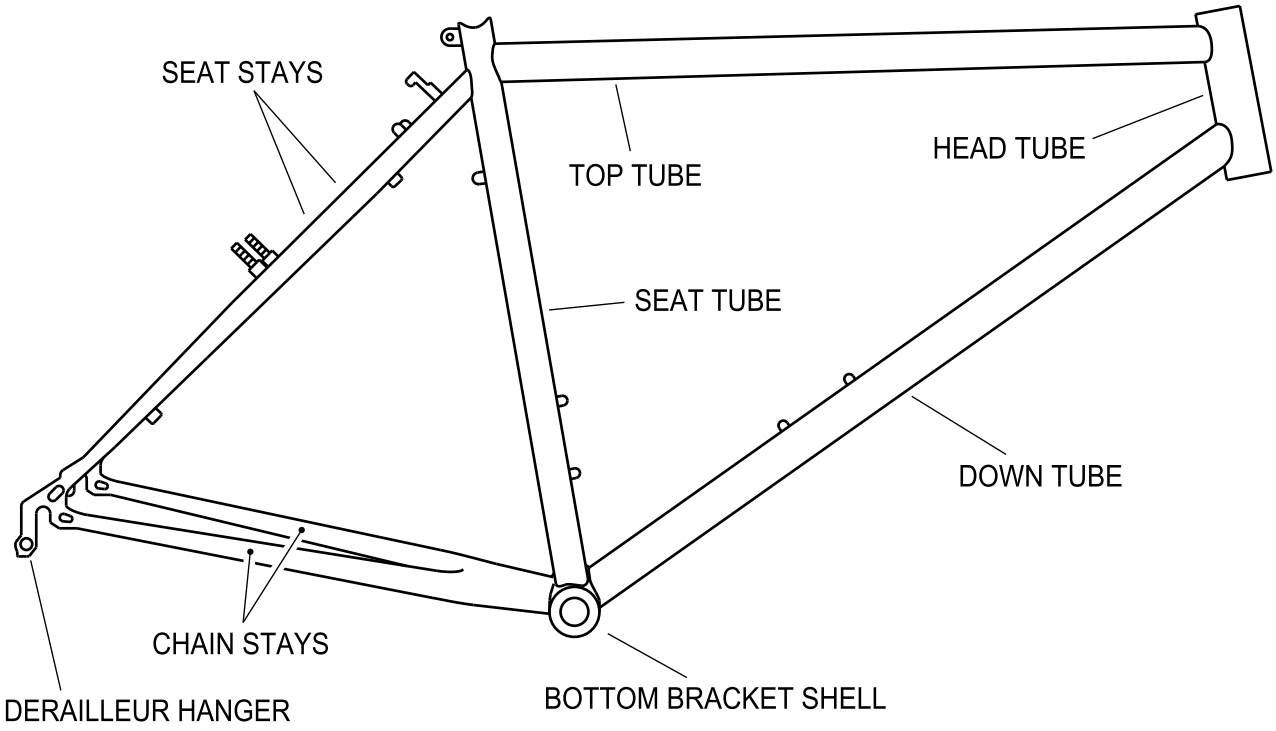

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Fig 2 Frame

are different and can also be of different materials (for example, titanium or chrome moly). Some bicycle frames are of carbon fiber. To get this material, it is necessary to put sheets of carbon fiber cloth on foam forms and epoxy them in position. This procedure gives a very light, strong structure that can have different shapes.

The frame includes the parts that follow:

- the top tube (the higher bar of the bicycle frame)
- the down tube (the section of the frame that extends from the stem to the bottom bracket)
- the head tube (the part of the frame that the fork steerer tube goes through)
- the seat tube (the vertical part of the frame that is the rear of the front triangle and that is between the bottom bracket and the top tube)
- the seat stay (the tube that includes the distance between the seat tube and the rear dropouts)
- the chain stay (the tube that is the bottom part of the rear triangle)

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Horn

Isolated fault

Fault codes

Fault code	Fault description
NYCJD03	Horn failed

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA3-10-00-00AA-921A-A	Horn – Remove and install a new item

Fault reporting

Fault code

NYCJD03

Fault description

Horn failed

Locate and repair

1 Locate and repair LRU

Line replaceable unit

Nomenclature	Identification
Horn	MFR: KZ444/PN: Horn-001

Repair procedures:..... S1000DBIKE-AAA-DA3-10-00-00AA-921A-A

Horn

Remove and install a new item

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References

Table 1 References

Data module / Technical publication	Title
	Local Disposal Procedures

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
As required				

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	
8mm Allen wrench	MFR: KZ666 /PN: BSK-TLST-001-08	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
Horn	MFR: KZ444 /PN: Horn-001	1 EA	

Safety conditions

None

Procedure

1 Safely hold the bicycle.

2 Remove the horn.

2.1 Use the 8mm Allen wrench from the Specialist toolset and remove the two Allen screws.

2.2 Remove the horn.

3 Install the new Horn.

3.1 Install the new Horn on the handlebars.

3.2 Use the 8mm Allen wrench from the Specialist toolset and tighten the two Allen screws.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
Safely discard the horn that you removed	Local Disposal Procedures

Intentionally left blank.

Drivetrain

Description of how it is made

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References

Table 1 References

Data module / Technical publication	Title
None	

Description

1 Drive train

The drive train is the group of components that are necessary for the operation of the bicycle. The drive train is the primary system for the movement of the bicycle. A typical drive train has the chain wheels, the chain, the pedals and the saddle.

Since the drive train has many components, it is necessary to do a regular maintenance. The drive train maintenance is easy and the users can disassemble and assemble each part of the drive train. Because of this, when one part is defective, it is possible to remove and replace it with a new one.

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Chain

Oil

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References

Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
The bicycle chain is clean and dry	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Operator	Intermediate	Bike rider	0,5 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Clean dry cloth	MFR: KZ666 /PN: BSK-TLST-001-12	1 EA	
Floor covering	MFR: KK999 /PN: PPP-001	1 pack	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
Wet lube	MFR: KZ222 /PN: LL-007	1 dl	
Dry lube	MFR: KZ222 /PN: LL-006	1 dl	

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

WARNING

Dry Lube is a very dangerous substance. Do not get it onto your skin. Use it in a well ventilated area. If you swallow it seek immediate medical advice. If it gets into your eyes wash your eyes in clean water and seek medical advice.

WARNING

Wet Lube is a very dangerous substance. Do not get it onto your skin. Use it in a well ventilated area. If you swallow it seek immediate medical advice. If it gets into your eyes wash your eyes in clean water and seek medical advice.

Procedure

1 Apply the penetrating lubricant into all the parts of the bike that move. This includes:

- derailleur pivots (refer to Fig 1)
- derailleur tension (refer to Fig 2)
- brake lever pivots (refer to Fig 3)

These brake lever pivots include:

- derailleur pivots
- derailleur tension
- guide wheels
- brake lever pivots
- control cables and where they go into their casings

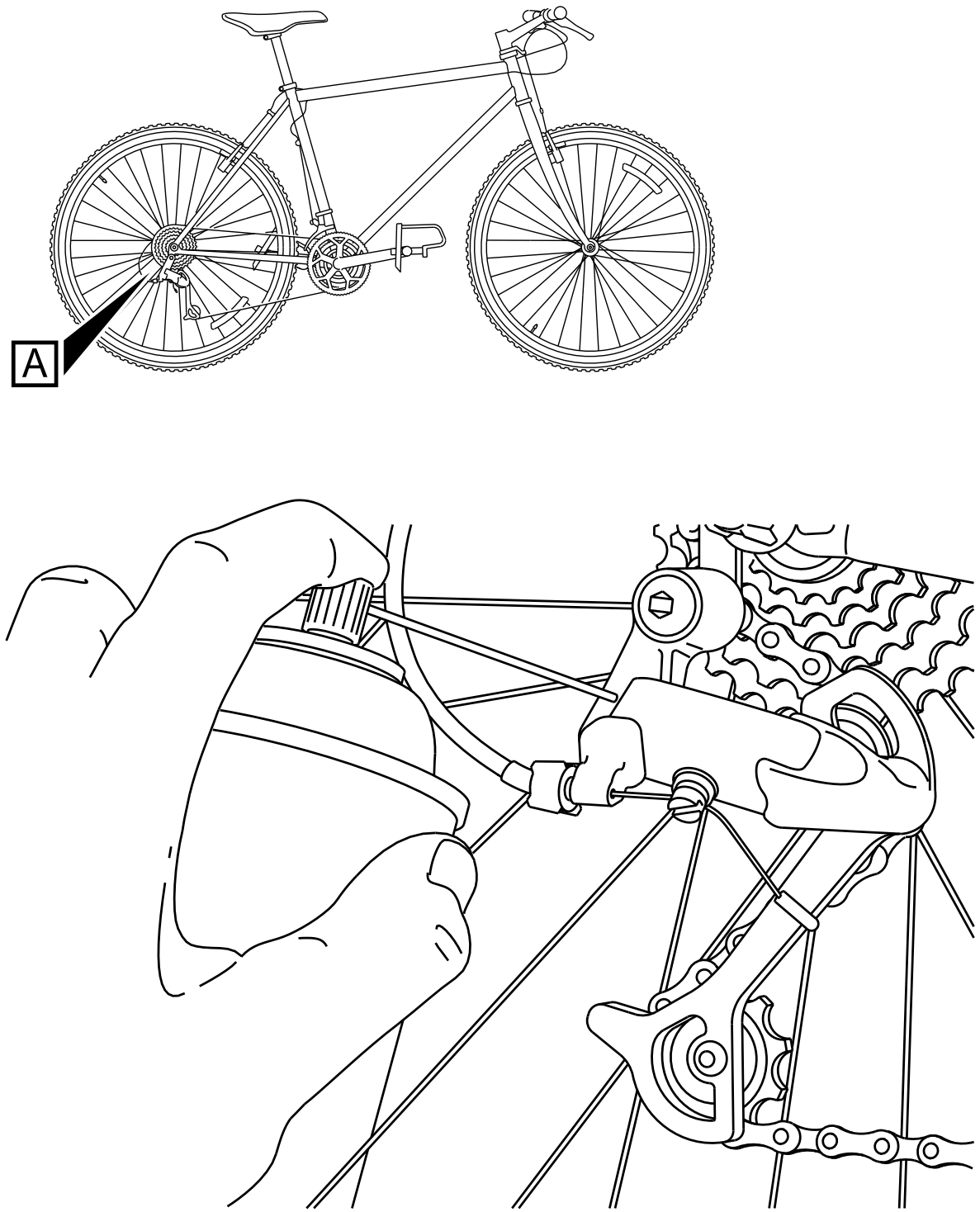

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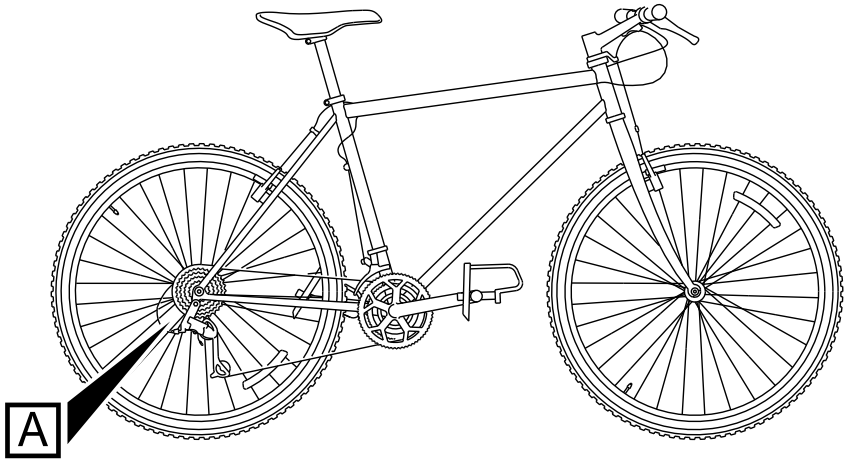
Fig 1 Derailleur pivots



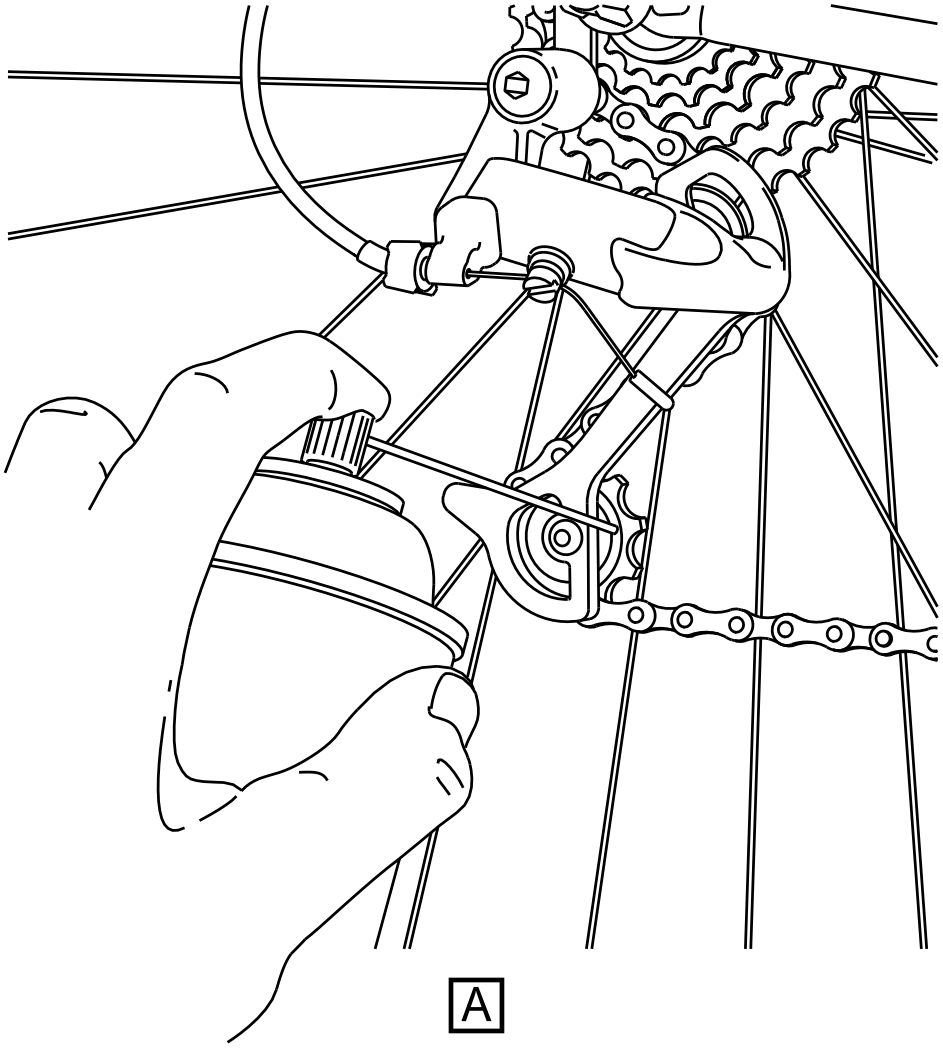


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Fig 2 Derailleur tension

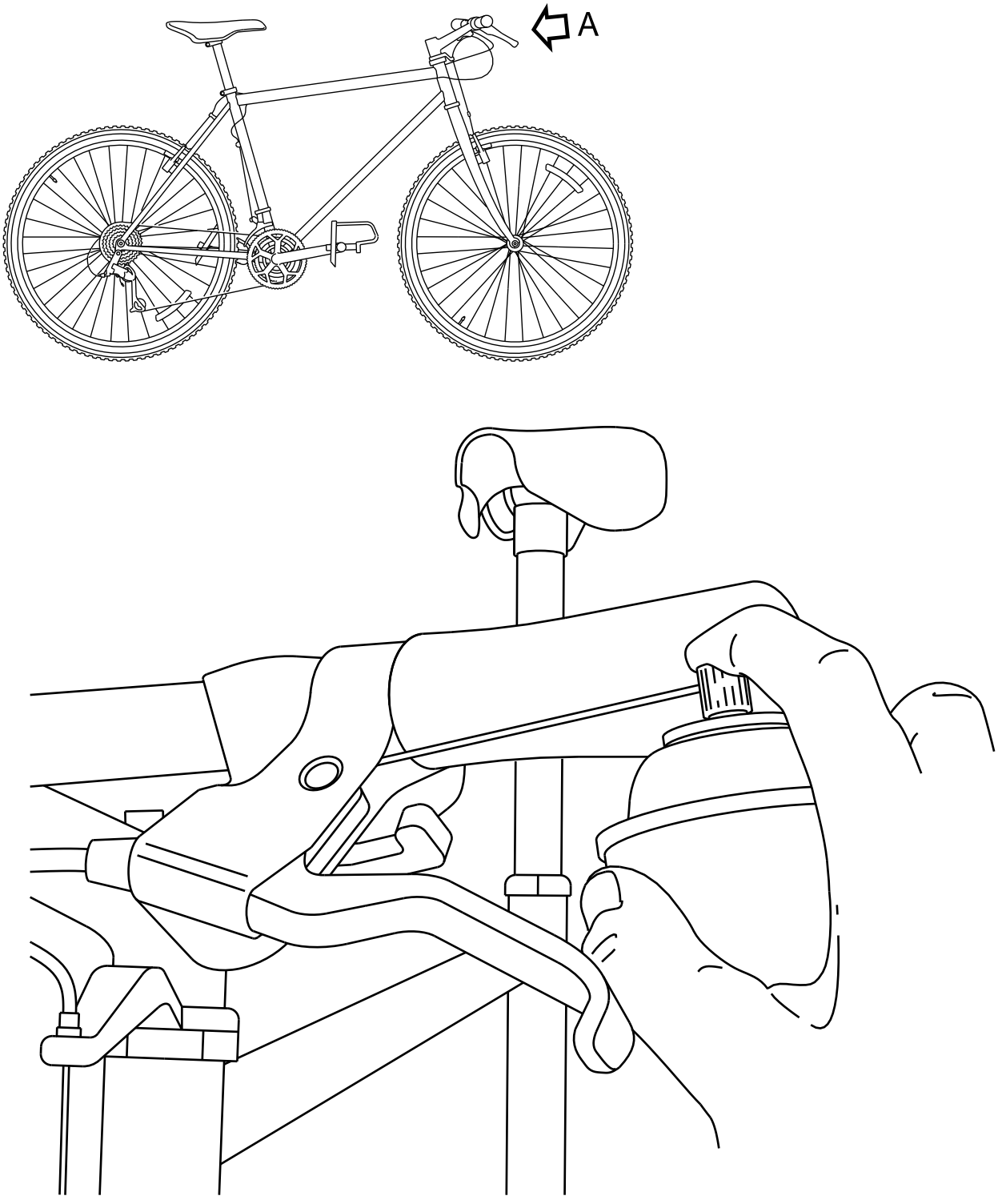

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Fig 3 Brake lever pivots

2 Lubricate the chain.

2.1 Make sure the chain is clean and dry.

2.2 Put the on the floor below the chain.

2.3 Use a Dry lube for dry conditions.

2.4 Use a Wet lube for wet conditions

2.5 Apply the lubricant to each roller of the chain (refer to Fig 4) but only apply a small quantity.

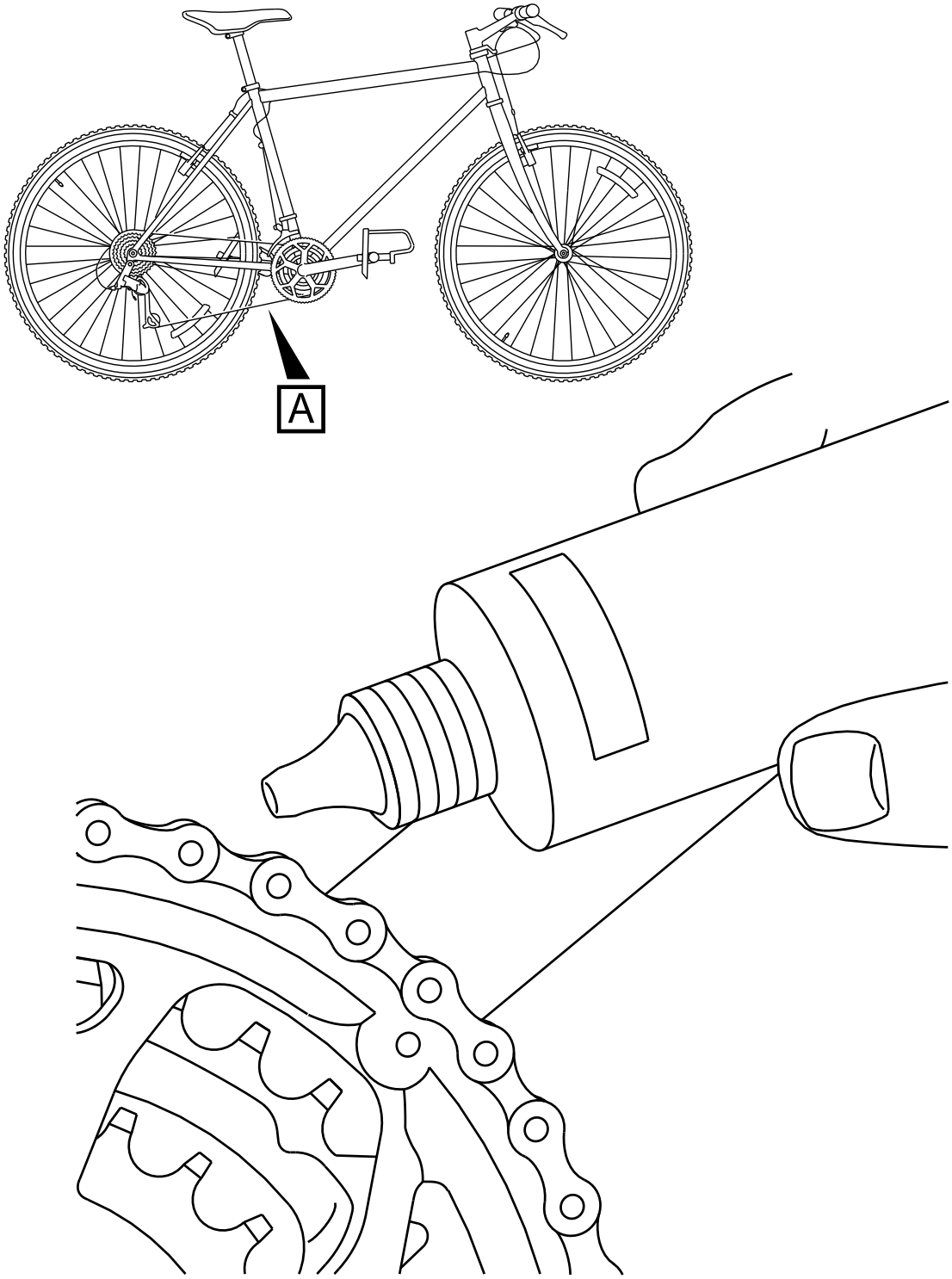

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Fig 4 Lubricate the chain

2.6 Hold the nozzle of the container above the front of the chain ring and slowly turn the cranks rearwards.

2.7

CAUTION

Do not get lubrication oil into the brake system. Oil in the break system can affect the efficiency of the bake system. Do not get oil onto the floor where it can easily get transferred onto the brake system.

Let the lubricant soak into chain before you clean the unwanted lubricant from the chain.

3 Do a check of the rear wheel rim and clean the unwanted lubricant if necessary.

4 Do a check of the chain to make sure that each link is lubricated. If there are links that do not move easily or have become frozen, lubricate the chain again (refer to Step 2).

5 Do a check of the remaining lubricated parts and clean the unwanted lubricant with a Clean dry cloth.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

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Chain

Clean with chain cleaning fluid

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-D00-00-00-00AA-121A-A	Bicycle – Pre-operation procedures (crew)

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Support equipment

Table 3 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Stiff bristle brush	MFR: KZ666 /PN: BSK-TLST-001-02	1 EA	
Chain cleaning fluid	MFR: KZ222 /PN: LL-003	As required	

Table 3 Support equipment (Continued)

Name	Manufacturer / Part No.	Quantity	Remark
Chain cleaning tool	MFR: KZ666 /PN: BSK-TLST-001-03	1 EA	

Consumables, materials and expendables

Table 4 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
Floor covering	MFR: KK999 /PN: PPP-001	1 pack	
General lubricant	MFR: KZ222 /PN: LL-001	As required	

Spares

Table 5 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Inspect the chain.

Do the inspection of the chain as given in the pre-ride checks (refer to S1000DBIKE-AAA-D00-00-00-00AA-121A-A).

2 Prepare the cleaning area.

2.1 Put the Floor covering on a satisfactory floor area.

2.2 Put the bicycle on the floor covering.

3 Clean debris from the chain.

3.1 Use the Stiff bristle brush and loosen as much unwanted material as possible.

3.2 Make sure that you remove all the unwanted material from the chain.

4 Clean the chain.

4.1 Open the Chain cleaning tool and fill with the Chain cleaning fluid.

4.2 Move the chain to the middle chainring and the middle sprocket at the rear.

4.3 Put the chain in the chain guides of the chain cleaning tool and lock the tool on the chain.

4.4 Hold the tool with the left hand and slowly turn the rearwards with the right hand.

4.5 Press the button on the cleaning tool to make sure that cleaning fluid flows until the tool is empty.

4.6 If necessary, remove the unwanted chain cleaning fluid.

5 Lubricate the chain.

5.1 Use the General lubricant and lubricate the chain.

5.2 Unlock and remove the cleaning tool.

5.3 If necessary, remove the unwanted lubricant.

Requirements after job completion

Required conditions

Table 6 Required conditions

Action / Condition	Data module / Technical publication
Move the bicycle to its storage area and remove the floor covering.	

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Drive train

Correlated fault

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References

Table 1 References

Data module / Technical publication	Title
None	

Fault reporting

Messages and warnings

Built-in test messages

1 Fault code: 100FC01

Fault description

The pedal mechanism is jammed

2 Fault code: 200FC01

Fault description

The derailleur is jammed

Isolate detected fault

1 Fault isolation test – LRU

Line replaceable unit

Nomenclature	Identification
Bicycle chain	MFR: KZ120/PN: Tchain-120

Remarks

Prepare the derailleur to put transmission chain back on pedal mechanism.

Gears

Description of how it is made

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References

Table 1 References

Data module / Technical publication	Title
S1000DBIKE-AAA-DA5-10-00-00AA-041A-A	Mechs – Description of how it is made
S1000DBIKE-AAA-DA5-30-00-00AA-041A-A	Shifters – Description of how it is made

Description

1 Gears

The gears include the mechanism, the hubs and the shifters.

The description of the mechanisms is given in S1000DBIKE-AAA-DA5-10-00-00AA-041A-A

The description of the shifters is given in S1000DBIKE-AAA-DA5-30-00-00AA-041A-A

The bicycles of these days can have 27 gears or more. The mountain bikes use a set that includes:

- Three socket sprockets of different dimension on the front
- Nine socket sprockets of different dimensions at the rear

This set gives the gear ratios.

The shifters installed on the handlebars change the gears and operate the mechanisms (also known as derailleurs). These derailleurs are cable-actuated mechanisms. They move the chain from the different sprockets.

The hub is the center of the wheel and contains the axle and bearings.

The gears let the rider crank at the pedals at a constant movement on slopes of different angles.

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Mechs

Description of how it is made

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References

Table 1 References

Data module / Technical publication	Title
None	

Description

1 Derailleur

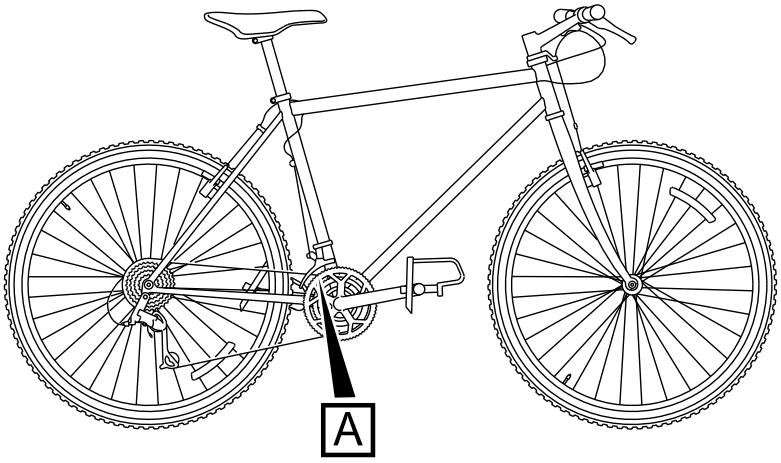
There are two different types of derailleur, the front and the rear.

1.1 Front derailleur

The front derailleur (refer to Fig 1) contains two types of screws to keep the movement of the derailleur to a minimum. These screws are:

the stop screw low-gear
the stop screw high-gear

The function of these screws is to prevent the rider from over shifting . If this occurs, the chain will go out of the chain wheel.



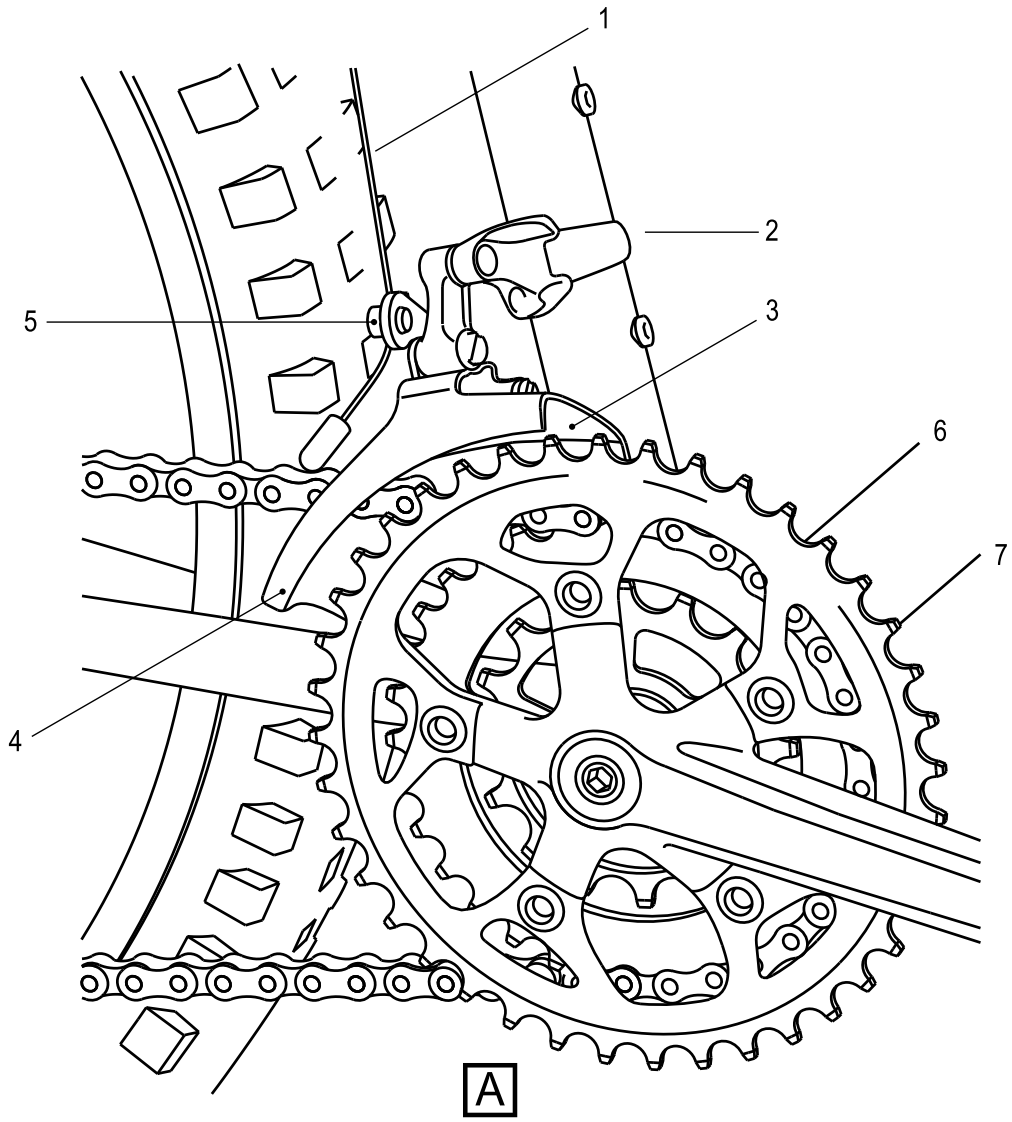


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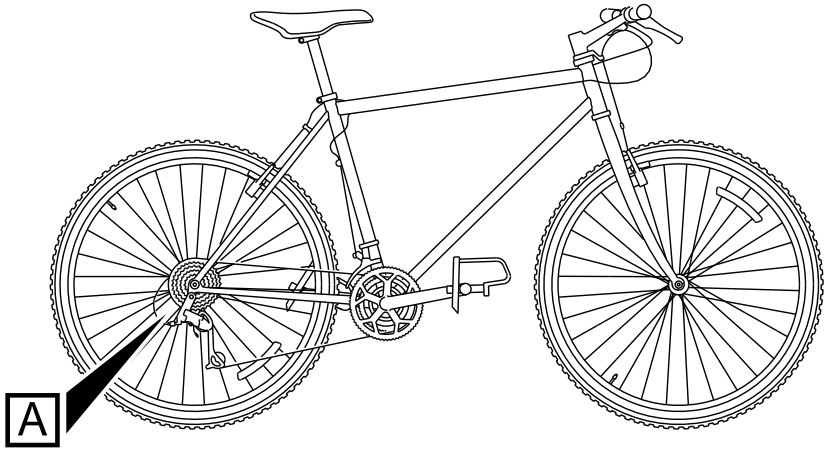
Fig 1 Front derailleur

The derailleur is installed on the bicycle seat tube with a clamp and is parallel to the three front sprockets.

The shift cable is connected between the shifters on the handle bars and the cable clamp bolt on the front derailleur. This operates the derailleur. On the sprockets there is an inner and outer cage. The clamp attaches the cage.

1.2 Rear derailleur

The rear derailleur (refer to Fig 2) section contains the sprockets for the different gear changes. When the cable clamp bolt is tight, it holds the shift cable in its position. A screwed bolt holds the tension wheel.



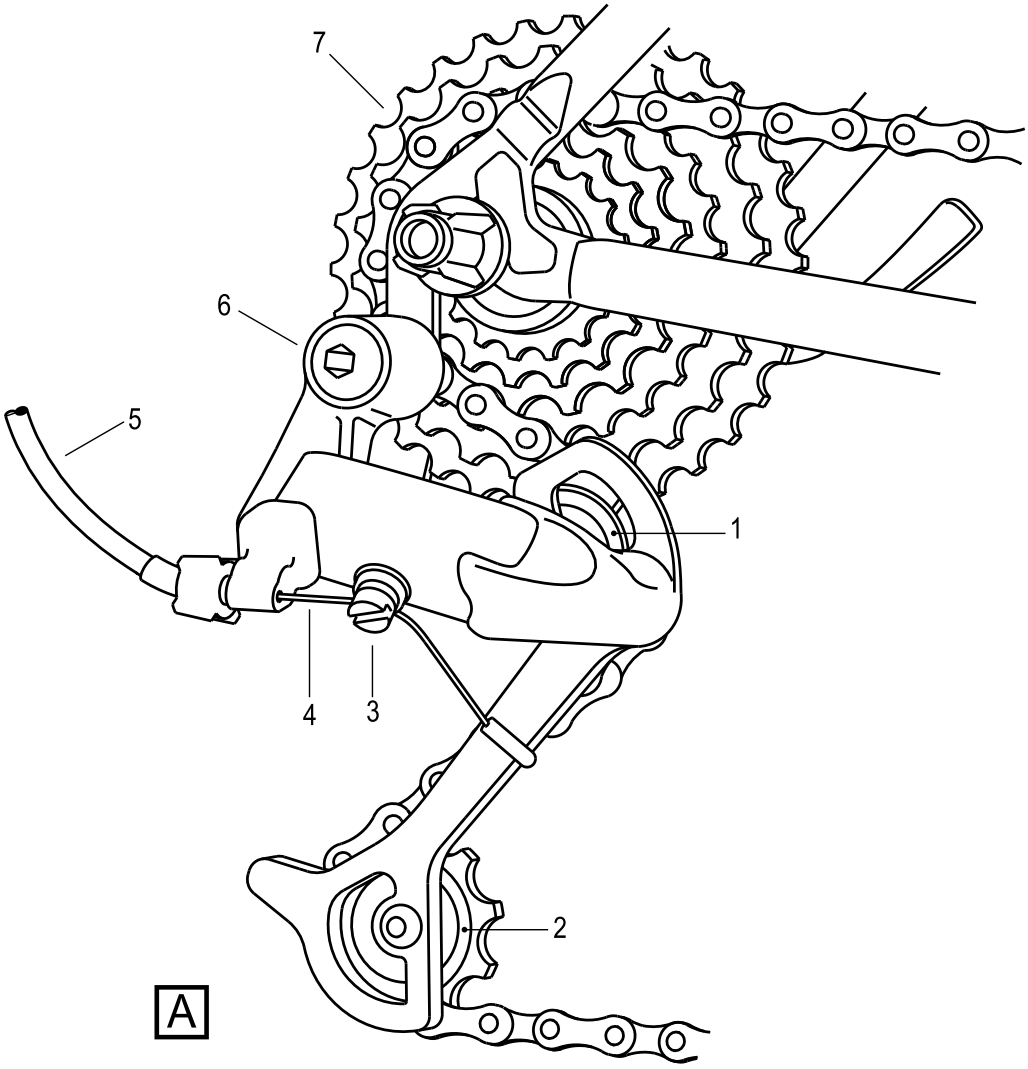


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Fig 2 Rear derailleur

The derailleur mounting bolt connects the derailleur to the frame. When the user attaches this bolt, this makes sure that the cage plates are parallel with the chain rings.

The guide wheel has the function to move the chain with the derailleur. It moves the chain from one sprocket to the other. The guide wheel must not move on its axis. If this occurs, there will be wear on the wheel. The position of the guide wheel is below the largest sprocket.

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Hubs

Clean with degreasing agent

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References

Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
Rear wheel removed	S1000DBIKE-AAA-DA0-20-00-00AA-520A-A

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man B	Supervisor	Advanced	Bicycle mechanic	0,8 h
Man A	Basic user		Operator	0,3 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
Degreasing agent	MFR: KZ222 /PN: LL-004	As required	
General grease	MFR: KZ222 /PN: LL-005	As required	

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Remove the axle.

1.1 Use the cone-wrench from the Specialist toolset and remove the locknut from one side of the axle.

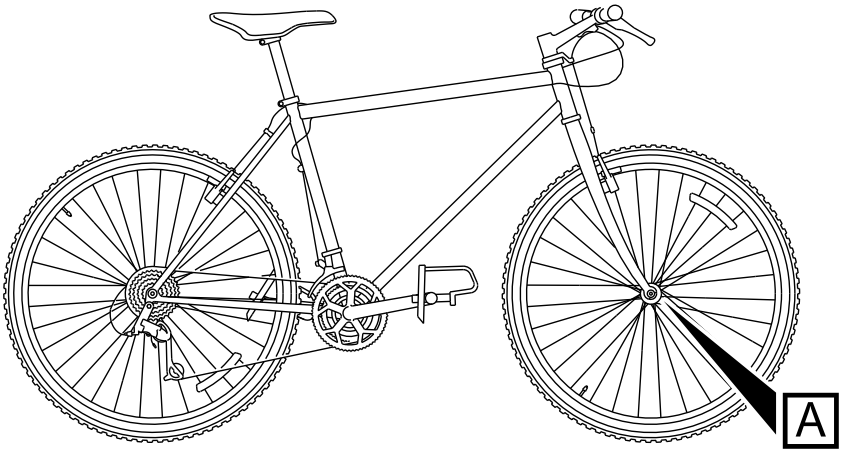
1.2 Remove the washer and the cone from the axle.

1.3

CAUTION

Make sure you do not lose the bearings from the hub. Be prepared to catch the bearings if they fall out. Missing bearings can cause damage to the hub.

Pull the axle out from the other side as shown in Fig 1 .



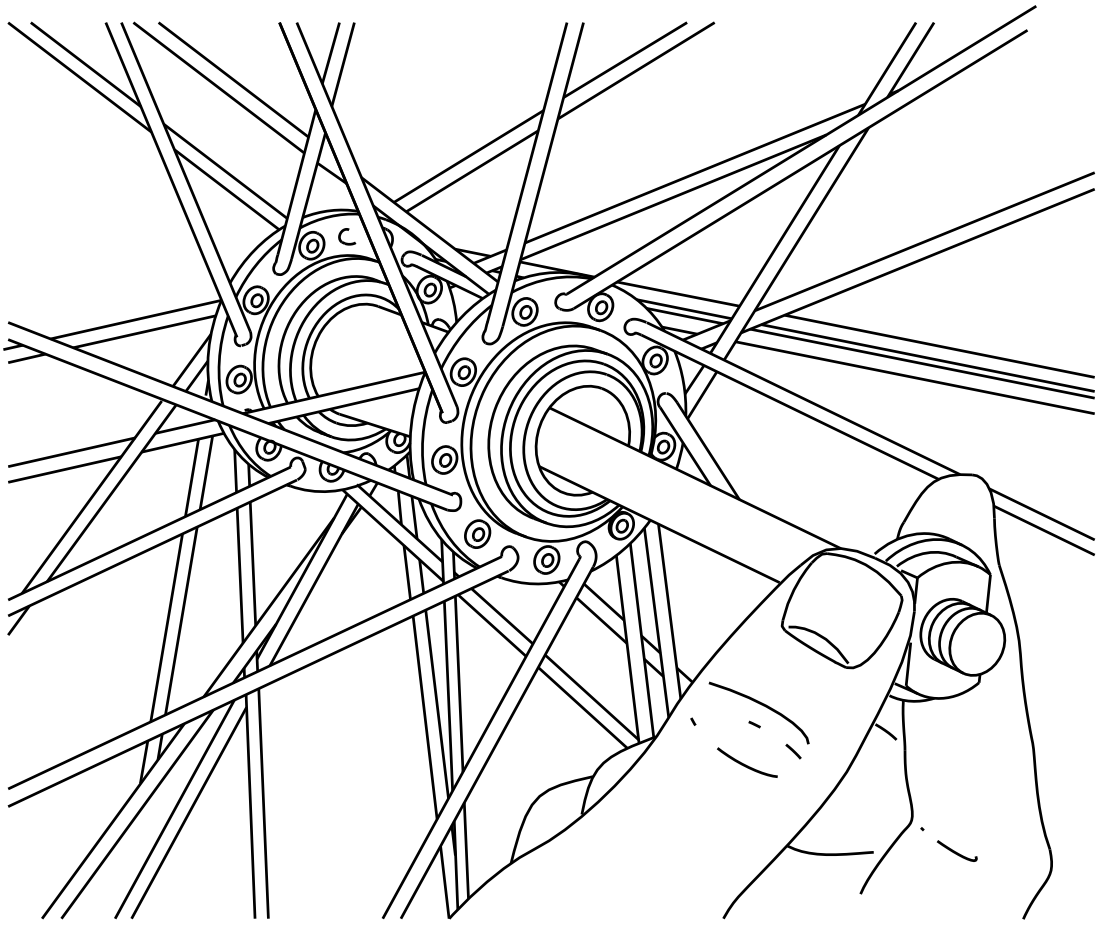


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Fig 1 Removing the axle

2	Remove the bearings.
2.1	Use a small screwdriver from the Specialist toolset and remove the bearings from their races.
2.2	Make sure that each side of the hub has the same number of bearings.
2.3	Use the Degreasing agent and clean all the parts of the hub.
2.4	Do a check of the axle to make sure that it is straight.
2.5	Examine the bearing contact area on the cones and the races in the hub for pitting and other signs of damage.
2.6	Do a check of the ball bearings for signs of damage.
2.7	Apply a large quantity of General grease on each hub race.
3	Assemble the hub.
3.1	Install the ball bearings into the races and push them into the grease.
3.2	Apply more grease on the tops of the bearings.
3.3	Install the axle through the hub.
3.4	Install the cone, the washer and the locknut on the other side of the axle.
3.5	Use the cone-wrench from the specialist toolset and carefully tighten the locknut.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Intentionally left blank.

Shifters

Description of how it is made

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References

Table 1 References

Data module / Technical publication	Title
None	

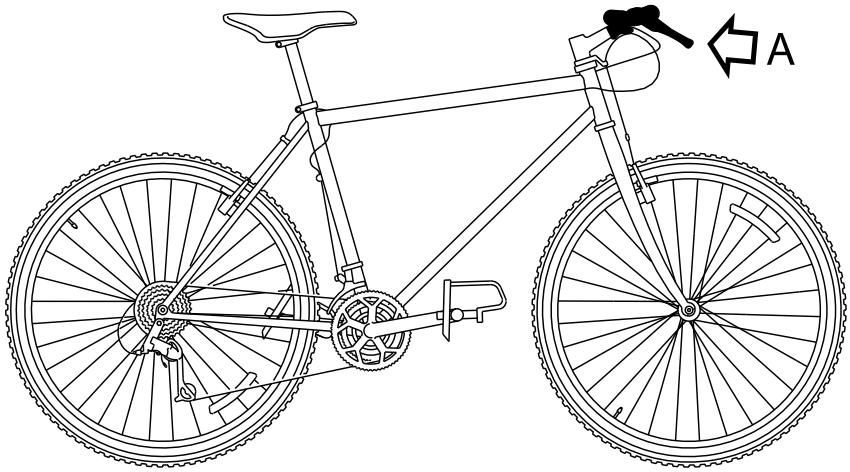
Description

1 Shifters

The thumb shifter is a usual type in modern bicycles. It is possible to adjust this type of shifter for operation in the index position or in the friction position. The differences between the two are:

- The index shifters change the gears with a click of a lever.
- The friction shifters hold the derailleur in its position by friction.

The thumb shifters (refer to Fig 1) are held on the bicycle with a screw. The paragraph that follows gives a description of a thumb shifter.



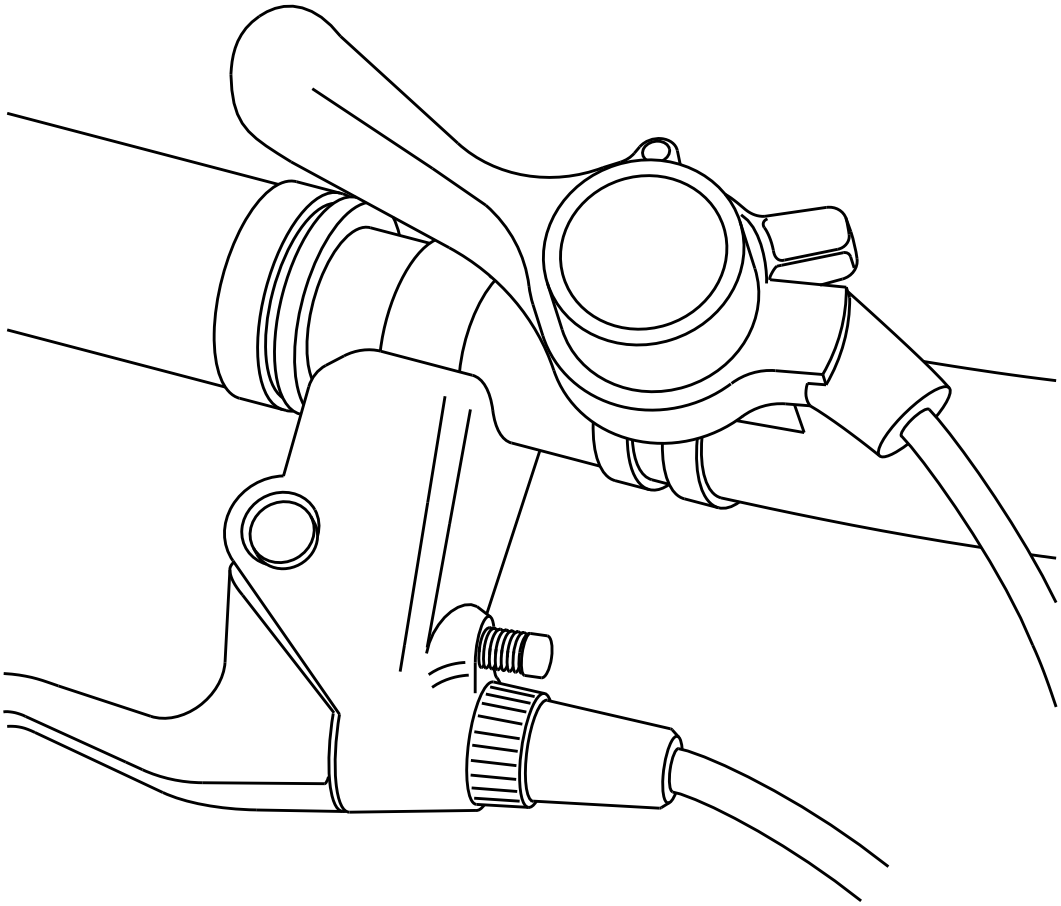


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Fig 1 Thumb shifter index type

2 How a thumb shifter is made up

A wing nut (refer to Fig 2) from the top of the lever holds the thumb shifter. The lever is on top of the mount and the mount is on the handle bar with a nut. To remove the mount, it is necessary to loosen the nut of two turns (refer to Fig 3), then the mount can move from the handle bar from the top of the lever. The lever sits on top of the mount and the mount is fixed into pace on the handle bar by a nut.

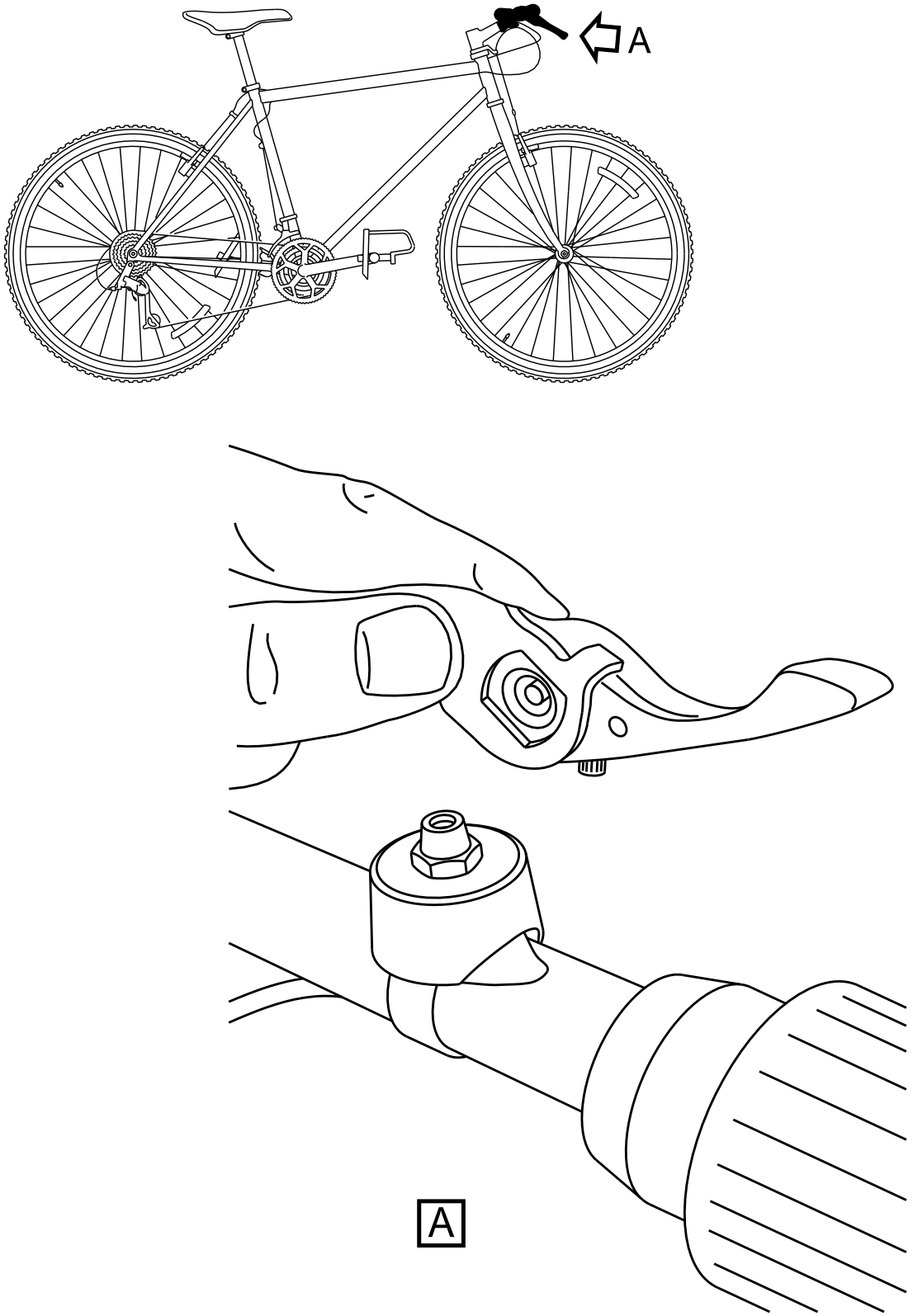

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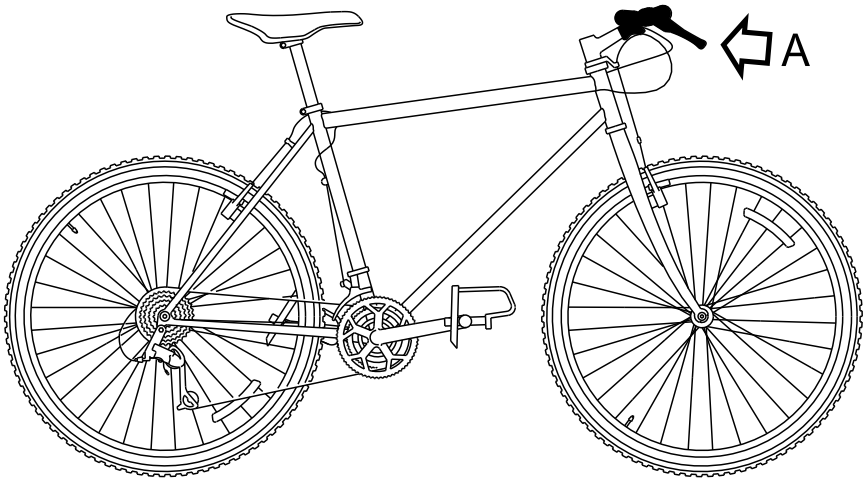
Fig 2 Unscrew wingnut



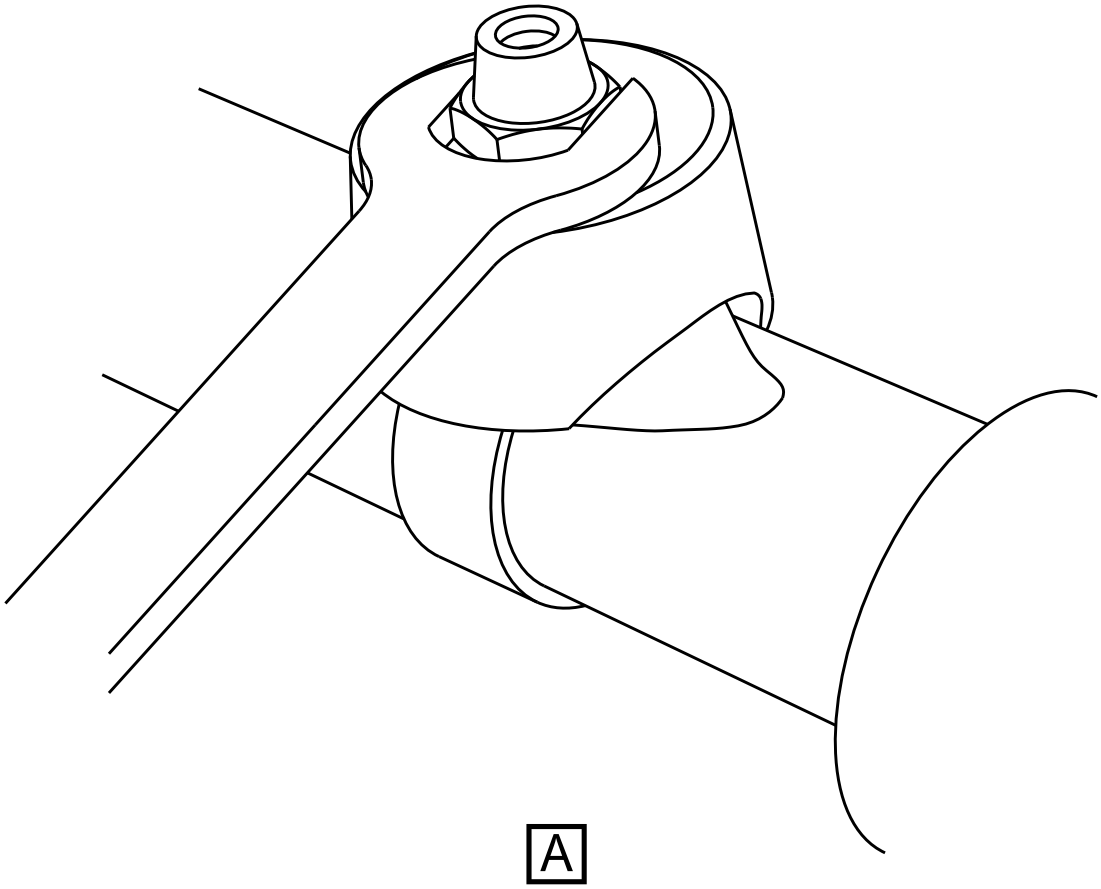


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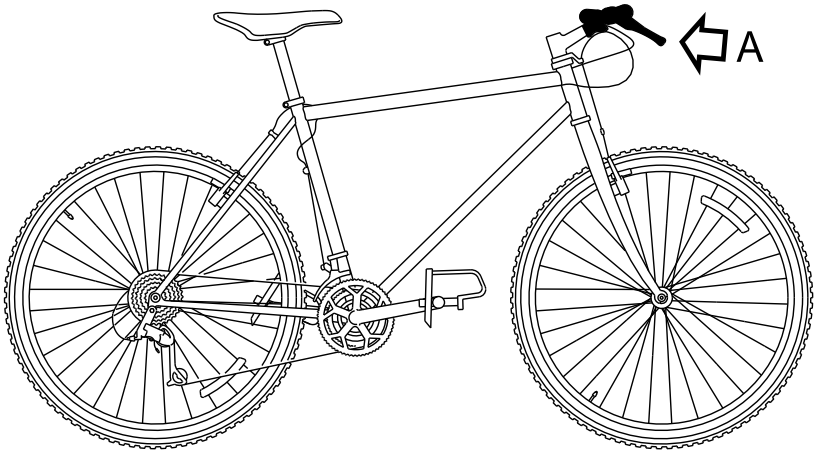
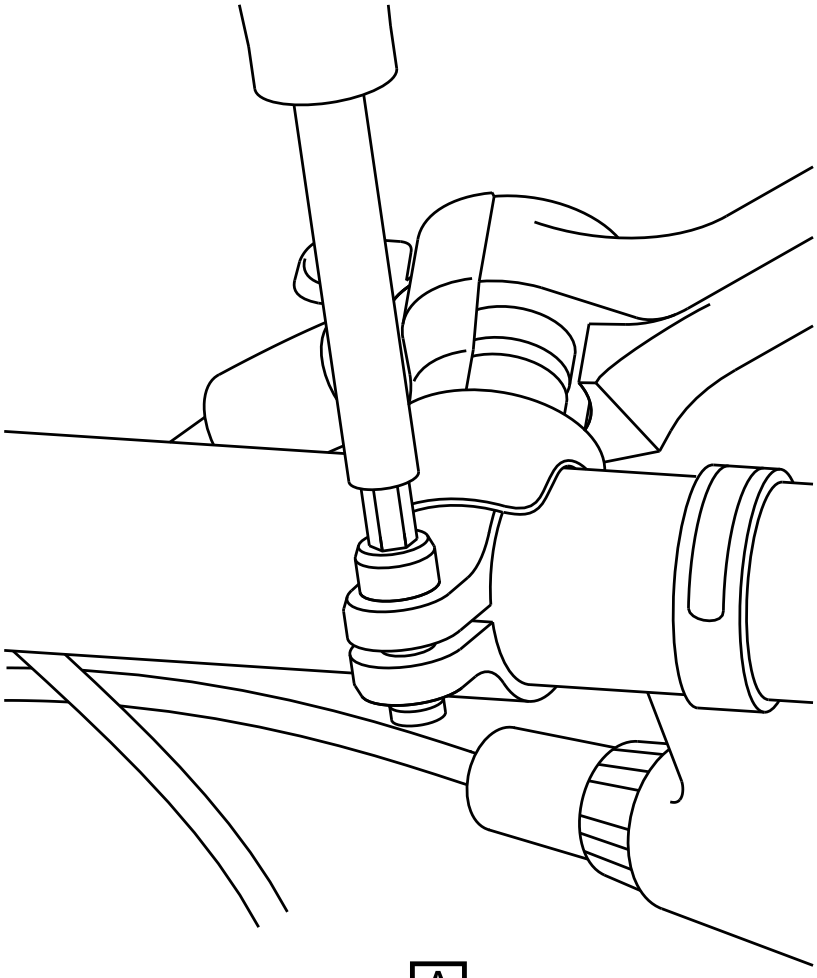
Fig 3 Loosen the nut

On modern models of this shifter, there is a clamp bolt that holds the shifter in its position (refer to Fig 4). The user can loosen the clamp bolt with an applicable tool. This lets the shifter release the handlebar.





ICN-S1000DBIKE-AAA-DA53000-0-U8025-00527-A-04-1

Fig 4 Loosen the shifter clamp bolt

Intentionally left blank.

Section 2

Electrical Lighting System

Intentionally left blank.

Wiring data

Field description

This is a "wrngflds" Data Module

The Docuneering S1000D XSL-FO Stylesheets do not yet support the "wrngflds" Data Module

Intentionally left blank.

Electrical system

Description of how it is made and its function

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References

Table 1 References

Data module / Technical publication	Title
None	

Description

1 Lighting system

The illustration that follows (see Fig 1) shows the lighting system of the bicycle.

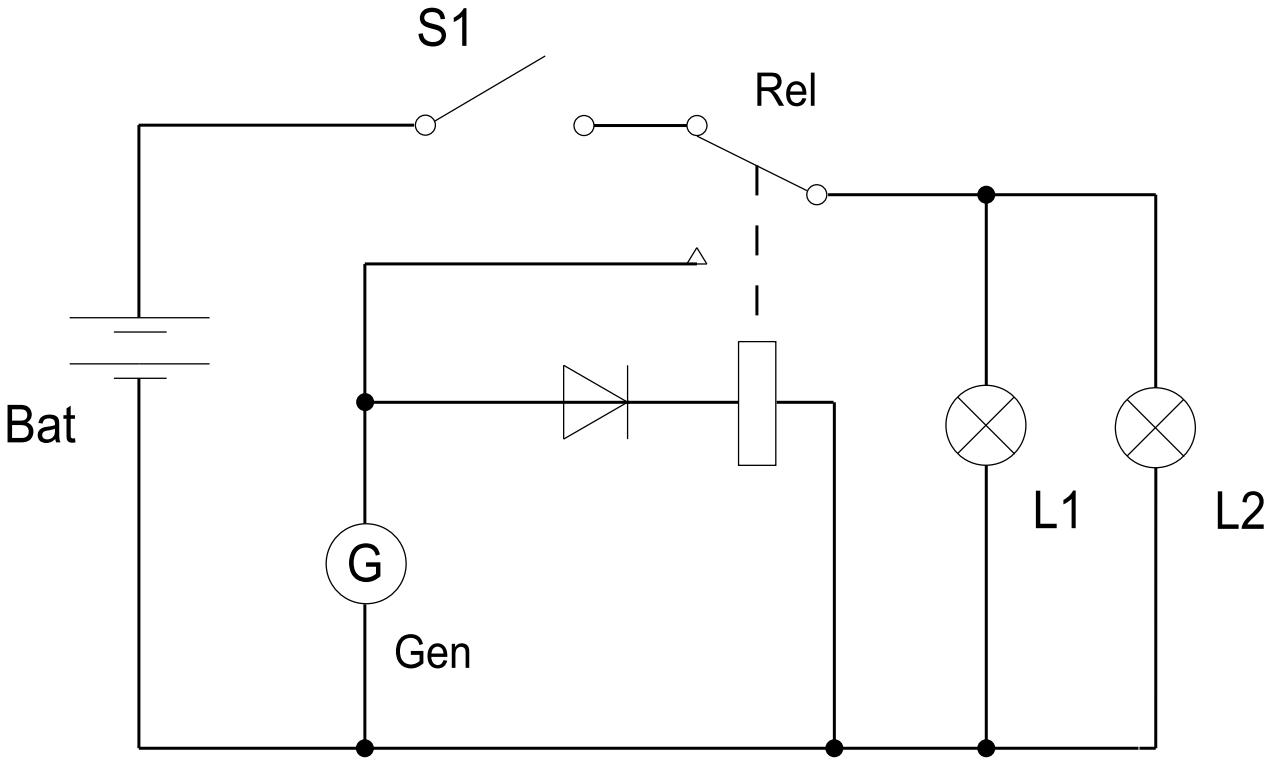

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Fig 1 Lighting system

Wiring

Equipment lists

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References

Table 1 References

Data module / Technical publication	Title
None	

Wiring data

Ident	CLC	Qty	Information	Installation	Applicability
PN: Front light	16		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Handle bars	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
PN: Rear light	16		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Seat post	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
PN: Battery	16		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame NHA: FIN ELO-Box	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
PN: Generator	16		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Steering tube	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
PN: Relay	10		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame NHA: FIN ELO-Box	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
PN: Distribution module	07		Transverse link: - Contacts: - 1 + - 2 + - 3 + - 4 + - Contacts: - 1 - - 2 - - 3 - - 4 - RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame NHA: FIN ELO-Box	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
PN: Switch	15		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Handle bars NHA: FIN ELO-Box	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
PN: Connector	3		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame Sibling plug id: FIN C_Bike NHA: FIN ELO-Box	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
PN: Receptacle	3		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame Sibling plug id: FIN C_Batt NHA: FIN ELO-Box	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
PN: Diode	18	2	RPC: CAGE: U8025 Name: UK MoD	• Install id: d1 Locations: - Frame NHA: FIN ELO-Box Pos. on NHA: Mount position: LH • Install id: d2 Locations:	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*

Applicable to: Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

End of data module

Wiring

Wire list

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References

Table 1 References

Data module / Technical publication	Title
None	

Wiring data

Ident	Connection		Information	Applicability
	From	To		
FL1AA State: Active	FIN: L1 Contact: + Wire conn. code: Electrical potential: Contact order: 1 NA code: 01	FIN: VV1 Contact: 1 + PN: P2201-P Wire conn. code: Electrical potential: TM grouping: 1 Block grouping: 1 Shunt grouping: 1 Contact order: 1 NA code: 03	Wire code: Wire type: AP Wire guages: - 010 (proj) PN: W2201-K Harn. id: Lamp1 Wire seq. no.: 1 Circuit: 234 Section: 567 Twists: - Lamp1 Twisting type: 1 Length: 1000 Wire color: red U8025 Routing: Feed-throughs: FIN: FT3 Hole id: 1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

(Continued)

Ident	Connection		Information	Applicability
	From	To		
FL2AA State: Active	FIN: L1 Contact: - Wire conn. code: Electrical potential: Contact order: 2 NA code: 01	FIN: VV1 Contact: 1 - Wire conn. code: Electrical potential: TM grouping: 1 Block grouping: 1 Shunt grouping: 2 Contact order: 5 NA code: 03	Wire code: Wire type: AP Wire guages: - 010 (proj) PN: 23-4567 Harn. id: Lamp1 Wire seq. no.: 2 Twists: - Lamp1 Twisting type: 1 Length: 1000 Wire color: blue U8025 Routing: Feed-throughs: FIN: FT3 Hole id: 2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
NC1VI State: Not active	FIN: VV1 Contact: 4 + Wire conn. code: Electrical potential: TM grouping: 1 Block grouping: 1 Shunt grouping: 1 Contact order: 4 NA code: 03			Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
RL1AA State: Active	FIN: L2 Contact: + Wire conn. code: Electrical potential: Contact order: 1 NA code: 01	FIN: VV1 Contact: 2 + PN: P2201-P Wire conn. code: Electrical potential: TM grouping: 1 Block grouping: 1 Shunt grouping: 1 Contact order: 2 NA code: 03	Wire code: Wire type: AP Wire guages: - 010 (proj) Harn. id: Lamp2 Wire seq. no.: 1 Circuit: 134 Section: 467 Twists: - Lamp2 Twisting type: 1 Length: 1500 Wire color: red U8025 Routing: Feed-throughs: FIN: FT3 Hole id: 3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

(Continued)

Ident	Connection		Information	Applicability
	From	To		
RL2AA State: Active	FIN: L2 Contact: - Wire conn. code: Electrical potential: Contact order: 2 NA code: 01	FIN: VV1 Contact: 2 - PN: P2201-M Wire conn. code: Electrical potential: TM grouping: 1 Block grouping: 1 Shunt grouping: 2 Contact order: 6 NA code: 03	Wire code: Wire type: AP Wire guages: - 010 (proj) Harn. id: Lamp2 Wire seq. no.: 2 Twists: - Lamp2 Twisting type: 1 Length: 1500 Wire color: blue U8025 Routing: Feed-throughs: FIN: FT3 Hole id: 4	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
GE2AA State: Active	FIN: Gen Contact: GND Wire conn. code: Electrical potential: Contact order: 2 Potential conn. order: 1 NA code: 01 Group code: G1-	FIN: VV1 Contact: 3 - PN: P2201-M Wire conn. code: Electrical potential: TM grouping: 1 Block grouping: 1 Shunt grouping: 2 Contact order: 7 NA code: 03	Wire code: Wire type: AP Wire guages: - 010 (proj) Wire seq. no.: 2 Length: 500 U8025 Routing: Feed-throughs: FIN: FT2 Hole id: 2	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
BT2AA Context: PN-AC-12561 MFG: F0001 Origin: Manufacturer State: Active	FIN: Batt Contact: - Install direct: A Wire conn. code: Electrical potential: Contact order: 2 NA code: 01	FIN: C_Batt Contact: - Install direct: B Wire conn. code: Electrical potential: Contact order: 2 NA code: 02	Wire code: Wire type: AP Wire guages: - 010 (proj) Harn. id: Batt_01 Context: PN-AC-12561 MFG: F0001 Origin: Manufacturer Wire seq. no.: 2 Twists: - Batt Twisting type: 1 Length: 400 [critical] Wire color: black U8025 NHA: FIN ELO-Box	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

(Continued)

Ident	Connection		Information	Applicability
	From	To		
GE1AA State: Active	FIN: Gen Wire conn. code: Electrical potential: Contact order: 1 Potential conn. order: 1 NA code: 01 Group code: G1+	FIN: Rel Contact: 2 Function: Generator mode Wire conn. code: Electrical potential: Block grouping: 2 Shunt grouping: 2 Contact order: 102 NA code: 04	Wire code: Wire type: AP Wire guages: - 010 (proj) Wire seq. no.: 1 Length: 500 U8025 Routing: Feed-throughs: FIN: FT2 Hole id: 1	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
GE3AA State: Active	FIN: Gen Wire conn. code: Electrical potential: Contact order: 1 Potential conn. order: 2 NA code: 01 Group code: G2+	FIN: Diode Contact: A Wire conn. code: Electrical potential: Block grouping: 1 Shunt grouping: 1 Contact order: 1 NA code: 04	Wire code: Wire type: AP Wire guages: - 010 (proj) Wire seq. no.: 3 Length: 500 U8025 Routing: Feed-throughs: FIN: FT2 Hole id: 3	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
GE3AB State: Active	FIN: Gen Wire conn. code: Electrical potential: Contact order: 1 Potential conn. order: 3 NA code: 01 Group code: G2+	FIN: Diode Contact: A Wire conn. code: Electrical potential: Block grouping: 1 Shunt grouping: 1 Contact order: 1 NA code: 04	Wire code: Wire type: AP Wire guages: - 010 (proj) Wire seq. no.: 3 Length: 500 U8025 Routing: Feed-throughs: FIN: FT2 Hole id: 4	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

(Continued)

Ident	Connection		Information	Applicability
	From	To		
BT1AA Context: PN-AC-12561 MFG: F0001 Origin: Manufacturer State: Active	FIN: Batt Contact: + Install direct: A Wire conn. code: Electrical potential: Contact order: 1 NA code: 01	FIN: C_Batt Contact: + Install direct: B Wire conn. code: Electrical potential: Contact order: 1 NA code: 02	Wire code: Wire type: AP Wire guages: - 010 (proj) Harn. id: Batt_01 Context: PN-AC-12561 MFG: F0001 Origin: Manufacturer Wire seq. no.: 1 Twists: - Batt Twisting type: 1 Length: 400 [critical] Wire color: red U8025 NHA: FIN ELO-Box	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
BA1AA State: Active	FIN: C_Bike Contact: + Wire conn. code: Electrical potential: Contact order: 1 NA code: 02	FIN: S1 Contact: Batt Wire conn. code: Electrical potential: Block grouping: 1 Shunt grouping: 1 Contact order: 1 NA code: 04	Wire code: Wire type: AP Wire guages: - 010 (proj) Wire seq. no.: 1 Length: 1200 U8025 Routing: Feed-throughs: FIN: FT1 Hole id: 1 NHA: FIN ELO-Box	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
BA1AB State: Active	FIN: S1 Contact: ON Wire conn. code: Electrical potential: Block grouping: 1 Shunt grouping: 1 Contact order: 102 NA code: 04	FIN: Rel Contact: 3 Function: Battery mode Wire conn. code: Electrical potential: Block grouping: 2 Shunt grouping: 1 Contact order: 103 NA code: 04	Wire code: Wire type: AP Wire guages: - 010 (proj) Wire seq. no.: 1 Length: 1000 U8025 Routing: Feed-throughs: FIN: FT1 Hole id: 2 NHA: FIN ELO-Box	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

(Continued)

Ident	Connection		Information	Applicability
	From	To		
BA2AA State: Active	FIN: C_Bike Contact: - Wire conn. code: Electrical potential: Contact order: 2 NA code: 02	FIN: VV1 Contact: 4 - PN: P2201-M Wire conn. code: Electrical potential: TM grouping: 1 Block grouping: 1 Shunt grouping: 2 Contact order: 8 NA code: 03	Wire code: Wire type: AP Wire guages: - 010 (proj) Wire seq. no.: 2 Length: 200 U8025 NHA: FIN ELO-Box	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
LL1AA State: Active	FIN: Rel Contact: 1 Wire conn. code: Electrical potential: Block grouping: 2 Shunt grouping: 1 Contact order: 1 NA code: 04	FIN: VV1 Contact: 3 + PN: P2201-P Wire conn. code: Electrical potential: TM grouping: 1 Block grouping: 1 Shunt grouping: 1 Contact order: 3 NA code: 03	Wire code: Wire type: AP Wire guages: - 010 (proj) Wire seq. no.: 1 Length: 500 U8025 NHA: FIN ELO-Box	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
GE4AA State: Active	FIN: Gen Contact: GND Wire conn. code: Electrical potential: Contact order: 2 Potential conn. order: 2 NA code: 01 Group code: G1-	FIN: Rel Wire conn. code: Electrical potential: Block grouping: 1 Shunt grouping: 1 Contact order: 1 NA code: 04	Wire code: Wire type: AP Wire guages: - 010 (proj) Wire seq. no.: 4 Length: 500 U8025 Routing: Feed-throughs: FIN: FT2 Hole id: 4	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
GE5AA State: Logconn	FIN: Diode Contact: K Wire conn. code: Electrical potential: Block grouping: 1 Shunt grouping: 1 Contact order: 2 NA code: 04	FIN: Rel Wire conn. code: Electrical potential: Block grouping: 1 Shunt grouping: 1 Contact order: 2 Potential conn. order: 1 NA code: 04 Group code: R1		Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

(Continued)

Ident	Connection		Information	Applicability
	From	To		
GE5AB State: Logconn	FIN: Diode Contact: K Wire conn. code: Electrical potential: Block grouping: 1 Shunt grouping: 1 Contact order: 2 NA code: 04	FIN: Rel Wire conn. code: Electrical potential: Block grouping: 1 Shunt grouping: 1 Contact order: 2 Potential conn. order: 2 NA code: 04 Group code: R1		Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
T001 State: Active	FIN: T01 Contact: 1 Wire conn. code: Screen order: 2 Electrical potential: Contact order: 1 NA code: 01 Screens: - Type: 01, Lvl: 00, Sty: 00	FIN: Sensor Contact: A Wire conn. code: Screen order: 2 Electrical potential: Contact order: 1 NA code: 01 Screens: - Type: 01, Lvl: 00, Sty: 00	Wire code: Wire type: XY Wire guages: - 010 (proj) Harn. id: Tacho Wire seq. no.: 001 Screens: - SCT1 Twists: - Tacho Twisting type: 1 Length: 1200 Wire color: yellow U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
T002 State: Active	FIN: T01 Contact: 2 Wire conn. code: Screen order: 3 Electrical potential: Contact order: 2 NA code: 01 Screens: - Type: 01, Lvl: 00, Sty: 00	FIN: Sensor Contact: B Wire conn. code: Screen order: 3 Electrical potential: Contact order: 2 NA code: 01 Screens: - Type: 01, Lvl: 00, Sty: 00	Wire code: Wire type: XY Wire guages: - 010 (proj) Harn. id: Tacho Wire seq. no.: 002 Screens: - SCT1 Twists: - Tacho Twisting type: 1 Length: 1200 Wire color: green U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

(Continued)

Ident	Connection		Information	Applicability
	From	To		
ND1 State: Logconn	FIN: T01 Wire conn. code: Screen order: 1 Spec. conn.: 100 Electrical potential: Contact order: 0 NA code: 01 Screens: - Type: 03, Lvl: 01, Sty: 01	FIN: T01 Wire conn. code: Screen order: 1 Electrical potential: Contact order: 0 NA code: 01 Screens: - SCT1 Type: 03, Lvl: 01, Sty: 01		Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
ND2 State: Logconn	FIN: Sensor Wire conn. code: Screen order: 1 Spec. conn.: 100 Electrical potential: Contact order: 0 NA code: 01 Screens: - Type: 03, Lvl: 01, Sty: 01	FIN: Sensor Wire conn. code: Screen order: 1 Electrical potential: Contact order: 0 NA code: 01 Screens: - SCT1 Type: 03, Lvl: 01, Sty: 01		Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

Wiring

Loom list

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References

Table 1 References

Data module / Technical publication	Title
None	

Wiring data

Ident	Information	Routing	RPC	Applicability
Batt_01 Context: PN-AC-12561 MFG: F0001 Origin: Manufacturer	Battery_123 Harn. var.: 123 Harn. iss.: A Harn. name: Battery harness EMC: LS1 Max temp.: 500 degF High vibr. env.: Yes Hydr. env.: Yes Sleeves: - PN: SPN1234 Material: Teflon		CAGE: U8025 Name: UK MoD	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
Tacho	Tachometer_101 Harn. var.: 101		CAGE: U8025	***Applicable to:*** *Mountain bicycle and*

(Continued)

Ident	Information	Routing	RPC	Applicability
	Harn. iss.: A Harn. name: Tachometer harness EMC: LS2 Min temp.: -10 degC Max temp.: 60 degC High vibr. env.: Yes Sleeves: - Material: Silicon		Name: UK MoD	*(Mountain storm Mk1 or Brook trekker Mk9)*
Lamp1	Front light_501 Harn. var.: 501 Harn. iss.: A Harn. name: Front light harness EMC: LS3 Min temp.: -10 degC Sleeves: - PN: SPN1234 - PN: SPN4321		CAGE: U8025 Name: UK MoD	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*
Lamp2	Rear light_503 Harn. var.: 503 Harn. iss.: A Harn. name: Rear light harness EMC: LS3 Hydr. env.: Yes		CAGE: U8025 Name: UK MoD	***Applicable to:*** *Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)*

Lights

Manual test

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References

Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
None	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,3 h

Support equipment

Table 4 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
None			

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 6 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Set the lights to on.

2 Make sure that all the lights operate correctly.

Requirements after job completion

Required conditions

Table 7 Required conditions

Action / Condition	Data module / Technical publication
None	

Lights

Observed fault

Fault codes

Fault code	Fault description
NYCJD02	The lights are set to the dim position.

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References

Table 1 References

Data module / Technical publication	Title
S1000DLIGHTING-AAA-D00-00-00-00AA-341A-A	Lights – Manual test
S1000DLIGHTING-AAA-D00-00-00-00AA-921A-A	Lighting – Remove and install a new item

Fault reporting

Fault code

NYCJD02

Fault description

The lights are set to the dim position.

1 During use or maintenance

1.1 Fault isolation test – LRU

Line replaceable unit

Nomenclature	Identification
Bulb	MFR: KZ111/PN: LiRUs-L1-11

Fault isolation test performance

Test type:..... Operation
Test code:..... O-001

Test description

Name:..... Test the bulbs

Test parameters

from 1 to 1 Days

Test procedures:..... S1000DLIGHTING-AAA-D00-00-00-00AA-341A-A

Repair procedures:..... S1000DLIGHTING-AAA-D00-00-00-00AA-921A-A

Remarks

This is the data module you would visit when you notice that the lights do not operate correctly.

Lighting

Assemble, install and connect procedures

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References

Table 1 References

Data module / Technical publication	Title
S1000DLIGHTING-AAA-D00-00-00-00AA-941A-D	–
S1000DLIGHTING-AAA-D00-00-00-00AA-921A-A	Lighting – Remove and install a new item

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
Bike is stationary	

Support equipment

Table 3 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
Specialist toolset	MFR: KZ666 /PN: BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 4 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 5 Spares

Name	Manufacturer / Part No.	Quantity	Remark
None			

Safety conditions

None

Procedure

1 Remove the lighting system from the packaging.

2 Make sure that the components in the package are the same as those on the S1000DLIGHTING-AAA-D00-00-00-00AA-941A-D

3 Install the light bulb to the front and rear lights (refer to S1000DLIGHTING-AAA-D00-00-00-00AA-921A-A).

4 Attach the front light fitting on the top of the handlebar.

4.1 Apply the protective strip around the handlebar.

4.2 Pull the clamp open and put it around the protective strip with the light connector at the top.

4.3 Install the washer on the screw.

4.4 Use the correct screwdriver from the Specialist toolset and tighten the screw into the hole at the bottom of the clamp. This safeties the clamp to the handlebar.

5 Attach the rear light fitting to the rear triangle of the bike frame.

5.1 Apply the protective strip around one of the two rear triangle up-tubes.

5.2 Pull the clamp open and put it around the protective strip. Make sure the light connector points rearwards.

5.3 Install the washer on the screw.

5.4 Use the correct screwdriver from the Specialist toolset and tighten the screw into the hole at the bottom of the clamp. This safeties the clamp to the tube.

6 Attach the light with the white glass to the front connector.

7 Attach the light with the red glass to the rear connector.

Requirements after job completion

Required conditions

Table 6 Required conditions

Action / Condition	Data module / Technical publication
None	

Intentionally left blank.

Lighting

Remove and install a new item

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References

Table 1 References

Data module / Technical publication	Title
None	

Preliminary requirements

Required conditions

Table 2 Required conditions

Action / Condition	Data module / Technical publication
Light set to off	
Light removed from bicycle	

Support equipment

Table 3 Support equipment

Name	Manufacturer / Part No.	Quantity	Remark
None			

Consumables, materials and expendables

Table 4 Consumables, materials and expendables

Name	Manufacturer / Part No.	Quantity	Remark
None			

Spares

Table 5 Spares

Name	Manufacturer / Part No.	Quantity	Remark
Bulb		1 EA	

Safety conditions

WARNING

Make sure that the Bulb is cool before you replace it.

CAUTION

Do not touch the glass of the Bulb.

Procedure

1 Remove the glass.

2 Remove the used Bulb.

3 Discard the used Bulb.

4 Remove the new Bulb from the packaging.

5 Install the new Bulb.

6 Install the glass on the light.

Requirements after job completion

Required conditions

Table 6 Required conditions

Action / Condition	Data module / Technical publication
Attach the light to the bicycle if necessary.	

Intentionally left blank.

Light system

Illustrated Parts Data - IPD

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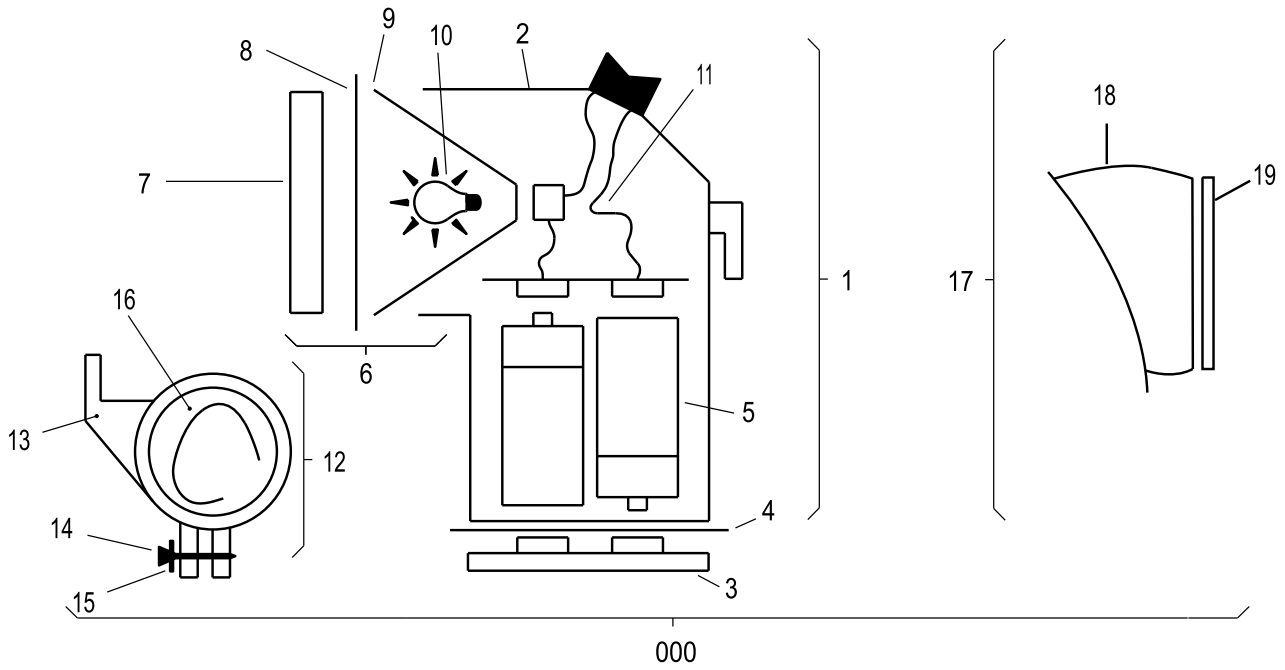
References

Table 1 References

Data module / Technical publication	Title
None	



ICN-S1000DBIKE-AAA-D000000-0-U8025-00537-A-04-1

Fig 1 Light system

Initial provisioning project information

IPP number: KZ7771111
IPP subject: .....LIGHT SYSTEM
IPP file identifier: .....s

Fig	Item	Units per assembly / Unit of issue	NCAGE	Part No. NATO Stock No.	Description	* Usable on code assy • MV/Effect	ICY
0/0							
	NaN	REF EA	KZ777	LRU1001	Light system		
	NaN	1 EA	KZ777	LRU1010	• Light, sub-assembly front FRONT		
	NaN	1 EA	KZ777	LRU1011	• • Light, main body		
	NaN	1 EA	KZ777	LRU1012	• • • Light, base		
	NaN	1 EA	KZ777	LRU1013	• • • • Seal		
	NaN	2 BX	KZ777	LIRUS-L1-10	• • • Battery		
	NaN	1 EA	KZ777	LRU1018	• • Lens, assembly		
	NaN	1 EA	KZ777	LRU1019	• • • Lens sub-assembly		
	NaN	1 EA	KZ777	LRU1022	• • • • Seal		
	NaN	1 EA	KZ777	LRU1020	• • • Reflector		
	NaN	2 EA	KZ777	LIRUS-L1-11	• • • • Bulb		
	NaN	1 EA	KZ777	LRU1026	• • Loom wiring		
	NaN	1 EA	KZ777	LRU-B001	• Bracket, light mounting		
	NaN	1 EA	KZ777	LRU-B003	• • Clip		
	NaN	1 BX	KZ777	LRU-B124	• • Screw,special		
	NaN	1 BX	KZ777	LRU-B556	• • Washer,flat		
	NaN	1 EA	KZ777	LRU-B789	• • • Grip,strip		
	NaN	1	KZ777	LRU2010	• Light, sub assembly rear		
	NaN	1 EA	KZ777	LRU1011	• • Light, main body REAR		
	NaN	1	KZ777	LRU2018	• • Lens, assembly rear		