Mountain bicycle - S1000D Issue 2.3

S1000DBIKE-U2GP4-00023-00

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

TPSMG UK, 2003-2010

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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- The OBS represents a part number and MFR code that is no longer supported but is included in this publication for historical reference.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The publication configuration shows active or superseded configuration information about this publication.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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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 2023-01-01, 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		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Configuration	S1000DBIKE-AAA-D00-00-00-00AA-020A-A		2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Copyright statements	S1000DBIKE-AAA-D00-00-00-00AA-021A-A		2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Administrative and legal statements	S1000DBIKE-AAA-D00-00-00-00AA-023A-A		2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Safety statements	S1000DBIKE-AAA-D00-00-00-00AA-012A-A		2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Change record	S1000DBIKE-AAA-D00-00-00-00AA-00TA-A	C	2023-02-01		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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List of effective data modules (Continued)

Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Technical standard record	S1000DBIKE-AAA-D00-00-00-00AA-008A-A		2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Introduction	S1000DBIKE-AAA-D00-00-00-00AA-018A-A		2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Section 1 – Mountain bicycle manual	S1000DBIKE-AAA-D00-00-00-01AA-001A-A		2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Mountain bicycle – Business rules	S1000DBIKE-AAA-D00-00-00-00AA-022A-D	C	2007-02-28		
Bicycle – Description of how it is made	S1000DBIKE-AAA-D00-00-00-00AA-041A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Description of function	S1000DBIKE-AAA-D00-00-00-00AA-042A-A	N	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Description attributed to crew	S1000DBIKE-AAA-D00-00-00-00AA-043A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Pre-operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-121A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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List of effective data modules (Continued)

Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Bicycle – Normal operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-131A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Post-operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-151A-A	N	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Other procedures to clean	S1000DBIKE-AAA-D00-00-00-00AA-258A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Place on test stand	S1000DBIKE-AAA-D00-00-00-00AA-330A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Standard repair procedures	S1000DBIKE-AAA-D00-00-00-00AA-663A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Illustrated Parts Data - IPD	S1000DBIKE-AAA-D00-00-00-00AA-941A-D		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Time limits	S1000DBIKE-AAA-D05-10-00-00AA-000A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Bicycle – Scheduled maintenance lists	S1000DBIKE-AAA-D05-20-00-00AA-000A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Scheduled maintenance checks	S1000DBIKE-AAA-D05-40-00-00AA-000A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Wheel – Description of how it is made	S1000DBIKE-AAA-DA0-00-00-00AA-041A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Inner tube – Remove and install a new item	S1000DBIKE-AAA-DA0-10-10-00AA-921A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Tire – Fill with air	S1000DBIKE-AAA-DA0-10-20-00AA-215A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Tire – Check pressure	S1000DBIKE-AAA-DA0-10-20-00AA-362B-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Front wheel – Fault reports and isolation procedures	S1000DBIKE-AAA-DA0-10-20-00AA-400A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 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		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Rear wheel – Detected fault	S1000DBIKE-AAA-DA0-20-00-00AA-412A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Rear wheel – Remove procedures	S1000DBIKE-AAA-DA0-20-00-00AA-520A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Brake system – Description of how it is made	S1000DBIKE-AAA-DA1-00-00-00AA-041A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Brake system – Manual test	S1000DBIKE-AAA-DA1-00-00-00AA-341A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Brake pads – Clean with rubbing alcohol	S1000DBIKE-AAA-DA1-10-00-00AA-251A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Steering – Description of how it is made	S1000DBIKE-AAA-DA2-00-00-00AA-041A-A	N	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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List of effective data modules (Continued)

Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Stem – Remove procedures	S1000DBIKE-AAA-DA2-10-00-00AA-520A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Stem – Install procedures	S1000DBIKE-AAA-DA2-10-00-00AA-720A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Handlebar – Remove procedures	S1000DBIKE-AAA-DA2-20-00-00AA-520A-A	N	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Handlebar – Install procedures	S1000DBIKE-AAA-DA2-20-00-00AA-720A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Headset – Description of how it is made	S1000DBIKE-AAA-DA2-30-00-00AA-041A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Headset – Remove procedures	S1000DBIKE-AAA-DA2-30-00-00AA-520A-A	N	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Headset – Install procedures	S1000DBIKE-AAA-DA2-30-00-00AA-720A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Frame – Description of how it is made	S1000DBIKE-AAA-DA3-00-00-00AA-041A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Horn – Isolated fault	S1000DBIKE-AAA-DA3-10-00-00AA-411A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Horn – Remove and install a new item	S1000DBIKE-AAA-DA3-10-00-00AA-921A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Drivetrain – Description of how it is made	S1000DBIKE-AAA-DA4-00-00-00AA-041A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Chain – Oil	S1000DBIKE-AAA-DA4-10-00-00AA-241A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Chain – Clean with chain cleaning fluid	S1000DBIKE-AAA-DA4-10-00-00AA-251B-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Drive train – Correlated fault	S1000DBIKE-AAA-DA4-10-00-00AA-414A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Gears – Description of how it is made	S1000DBIKE-AAA-DA5-00-00-00AA-041A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Mechs – Description of how it is made	S1000DBIKE-AAA-DA5-10-00-00AA-041A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Hubs – Clean with degreasing agent	S1000DBIKE-AAA-DA5-20-00-00AA-251C-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Shifters – Description of how it is made	S1000DBIKE-AAA-DA5-30-00-00AA-041A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Section 2 – Electrical Lighting System	S1000DBIKE-AAA-D00-00-00-02AA-001A-A		2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Wiring data – Field description	S1000DLIGHTING-AAA-D00-00-00-00AA-029A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Electrical system – Description of how it is made and its function	S1000DLIGHTING-AAA-D00-00-00-00AA-040A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code		Issue date	No. of pages	Applicable to
Wiring – Equipment lists	S1000DLIGHTING-AAA-D00-00-00-00AA-056A-A	N	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Wiring – Wire list	S1000DLIGHTING-AAA-D00-00-00-00AA-057A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Wiring – Loom list	S1000DLIGHTING-AAA-D00-00-00-00AA-058A-A	C	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Lights – Manual test	S1000DLIGHTING-AAA-D00-00-00-00AA-341A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Lights – Observed fault	S1000DLIGHTING-AAA-D00-00-00-00AA-413A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Lighting – Assemble, install and connect procedures	S1000DLIGHTING-AAA-D00-00-00-00AA-700A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Lighting – Remove and install a new item	S1000DLIGHTING-AAA-D00-00-00-00AA-921A-A		2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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List of effective data modules (Continued)

Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Light system – Illustrated Parts Data - IPD	S1000DLIGHTING-AAA-D00-00-00-00AA-941A-D	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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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 2023-01-01, of this publication.

Data module code	Reason for update
S1000DBIKE-AAA-D00-00-00-00AA-001A-A	Editorial changes Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-D00-00-00-00AA-020A-A	Editorial changes Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-D00-00-00-00AA-00TA-A	Up issue to 002
S1000DBIKE-AAA-D00-00-00-00AA-022A-D	The DM has been updated to reflect Issue 2.3
S1000DBIKE-AAA-D00-00-00-00AA-041A-A	Editorial changes Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred Added additional items
S1000DBIKE-AAA-D00-00-00-00AA-042A-A	Editorial changes Updated business rules (BREX dm) referred
S1000DBIKE-AAA-D00-00-00-00AA-043A-A	Editorial change Updated business rules (BREX dm) referred
S1000DBIKE-AAA-D00-00-00-00AA-121A-A	Inspection of brake system installation amended. Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-D00-00-00-00AA-131A-A	Bike computer is replaced Bike computer display colors have changed Editorial changes Updated business rules (BREX dm) referred Display changed
S1000DBIKE-AAA-D00-00-00-00AA-151A-A	Editorial changes Updated business rules (BREX dm) referred

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Highlights (Continued)

Data module code	Reason for update
S1000DBIKE-AAA-D00-00-00-00AA-258A-A	Detergent replaced Cleaning procedure changed - new skills needed Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred Procedure has been changed Replaced by supplier Safty hazard reported Safty hazard reported Procedure has been changed Changed procedure for Mk9
S1000DBIKE-AAA-D00-00-00-00AA-330A-A	Editorial change Updated business rules (BREX dm) referred
S1000DBIKE-AAA-D00-00-00-00AA-663A-A	Editorial change Illustrations updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-D00-00-00-00AA-941A-D	Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-D05-10-00-00AA-000A-A	Editorial change Updated business rules (BREX dm) referred
S1000DBIKE-AAA-D05-20-00-00AA-000A-A	DM converted to 2.3 - deftask applicability relocated Updated business rules (BREX dm) referred
S1000DBIKE-AAA-D05-40-00-00AA-000A-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA0-00-00-00AA-041A-A	Editorial changes Illustrations updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA0-10-10-00AA-921A-A	Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA0-10-20-00AA-215A-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA0-10-20-00AA-362B-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA0-10-20-00AA-400A-A	DM converted to 2.3 structure Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA0-10-20-00AA-921A-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA0-20-00-00AA-412A-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA0-20-00-00AA-520A-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA1-00-00-00AA-041A-A	Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA1-00-00-00AA-341A-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA1-10-00-00AA-251A-A	Updated business rules (BREX dm) referred

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Highlights (Continued)

Data module code	Reason for update
S1000DBIKE-AAA-DA2-00-00-00AA-041A-A	Editorial change Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA2-10-00-00AA-520A-A	Personnel requirements specified Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA2-10-00-00AA-720A-A	Personnel requirements specified Rubbing alcohol amount clarified Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA2-20-00-00AA-520A-A	Personnel requirements specified Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA2-20-00-00AA-720A-A	Personnel requirements specified Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA2-30-00-00AA-041A-A	Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA2-30-00-00AA-520A-A	Personnel requirements specified Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA2-30-00-00AA-720A-A	Personnel requirements specified Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA3-00-00-00AA-041A-A	Editorial changes Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA3-10-00-00AA-411A-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA3-10-00-00AA-921A-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA4-00-00-00AA-041A-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA4-10-00-00AA-241A-A	Personnel requirements specified Consumable amounts clarified Hazard identified Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred New floor cover used Hazard report
S1000DBIKE-AAA-DA4-10-00-00AA-251B-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA5-00-00-00AA-041A-A	Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA5-10-00-00AA-041A-A	Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred

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Highlights (Continued)

Data module code	Reason for update
S1000DBIKE-AAA-DA5-20-00-00AA-251C-A	Personnel requirements specified Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DBIKE-AAA-DA5-30-00-00AA-041A-A	Illustrations updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DLIGHTING-AAA-D00-00-00-00AA-029A-A	Updated business rules (BREX dm) referred
S1000DLIGHTING-AAA-D00-00-00-00AA-040A-A	Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred
S1000DLIGHTING-AAA-D00-00-00-00AA-056A-A	Version range changed Editorial changes Updated business rules (BREX dm) referred
S1000DLIGHTING-AAA-D00-00-00-00AA-057A-A	DM converted to 2.3 Updated business rules (BREX dm) referred
S1000DLIGHTING-AAA-D00-00-00-00AA-058A-A	Version range changed Editorial change Updated business rules (BREX dm) referred
S1000DLIGHTING-AAA-D00-00-00-00AA-341A-A	Updated business rules (BREX dm) referred
S1000DLIGHTING-AAA-D00-00-00-00AA-413A-A	Updated business rules (BREX dm) referred
S1000DLIGHTING-AAA-D00-00-00-00AA-700A-A	Updated business rules (BREX dm) referred
S1000DLIGHTING-AAA-D00-00-00-00AA-921A-A	Updated business rules (BREX dm) referred
S1000DLIGHTING-AAA-D00-00-00-00AA-941A-D	Illustration updated to Issue 2.3 profile Updated business rules (BREX dm) referred

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

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		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Configuration	S1000DBIKE-AAA-D00-00-00-00AA-020A-A	2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Copyright statements	S1000DBIKE-AAA-D00-00-00-00AA-021A-A	2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Administrative and legal statements	S1000DBIKE-AAA-D00-00-00-00AA-023A-A	2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Safety statements	S1000DBIKE-AAA-D00-00-00-00AA-012A-A	2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Change record	S1000DBIKE-AAA-D00-00-00-00AA-00TA-A	2023-02-01		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Technical standard record	S1000DBIKE-AAA-D00-00-00-00AA-008A-A	2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Introduction	S1000DBIKE-AAA-D00-00-00-00AA-018A-A	2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Section 1 – Mountain bicycle manual	S1000DBIKE-AAA-D00-00-00-01AA-001A-A	2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Mountain bicycle – Business rules	S1000DBIKE-AAA-D00-00-00-00AA-022A-D	2007-02-28		
Bicycle – Description of how it is made	S1000DBIKE-AAA-D00-00-00-00AA-041A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Description of function	S1000DBIKE-AAA-D00-00-00-00AA-042A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Description attributed to crew	S1000DBIKE-AAA-D00-00-00-00AA-043A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Pre-operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-121A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Normal operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-131A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Post-operation procedures (crew)	S1000DBIKE-AAA-D00-00-00-00AA-151A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Other procedures to clean	S1000DBIKE-AAA-D00-00-00-00AA-258A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Bicycle – Place on test stand	S1000DBIKE-AAA-D00-00-00-00AA-330A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Standard repair procedures	S1000DBIKE-AAA-D00-00-00-00AA-663A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Illustrated Parts Data - IPD	S1000DBIKE-AAA-D00-00-00-00AA-941A-D	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Time limits	S1000DBIKE-AAA-D05-10-00-00AA-000A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Scheduled maintenance lists	S1000DBIKE-AAA-D05-20-00-00AA-000A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Bicycle – Scheduled maintenance checks	S1000DBIKE-AAA-D05-40-00-00AA-000A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Wheel – Description of how it is made	S1000DBIKE-AAA-DA0-00-00-00AA-041A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Inner tube – Remove and install a new item	S1000DBIKE-AAA-DA0-10-10-00AA-921A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Tire – Fill with air	S1000DBIKE-AAA-DA0-10-20-00AA-215A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Tire – Check pressure	S1000DBIKE-AAA-DA0-10-20-00AA-362B-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Front wheel – Fault reports and isolation procedures	S1000DBIKE-AAA-DA0-10-20-00AA-400A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Tire – Remove and install a new item	S1000DBIKE-AAA-DA0-10-20-00AA-921A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Rear wheel – Detected fault	S1000DBIKE-AAA-DA0-20-00-00AA-412A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Rear wheel – Remove procedures	S1000DBIKE-AAA-DA0-20-00-00AA-520A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Brake system – Description of how it is made	S1000DBIKE-AAA-DA1-00-00-00AA-041A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Brake system – Manual test	S1000DBIKE-AAA-DA1-00-00-00AA-341A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Brake pads – Clean with rubbing alcohol	S1000DBIKE-AAA-DA1-10-00-00AA-251A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Steering – Description of how it is made	S1000DBIKE-AAA-DA2-00-00-00AA-041A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Stem – Remove procedures	S1000DBIKE-AAA-DA2-10-00-00AA-520A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Stem – Install procedures	S1000DBIKE-AAA-DA2-10-00-00AA-720A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Handlebar – Remove procedures	S1000DBIKE-AAA-DA2-20-00-00AA-520A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Handlebar – Install procedures	S1000DBIKE-AAA-DA2-20-00-00AA-720A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Headset – Description of how it is made	S1000DBIKE-AAA-DA2-30-00-00AA-041A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Headset – Remove procedures	S1000DBIKE-AAA-DA2-30-00-00AA-520A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Headset – Install procedures	S1000DBIKE-AAA-DA2-30-00-00AA-720A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Frame – Description of how it is made	S1000DBIKE-AAA-DA3-00-00-00AA-041A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Horn – Isolated fault	S1000DBIKE-AAA-DA3-10-00-00AA-411A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Horn – Remove and install a new item	S1000DBIKE-AAA-DA3-10-00-00AA-921A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Drivetrain – Description of how it is made	S1000DBIKE-AAA-DA4-00-00-00AA-041A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Chain – Oil	S1000DBIKE-AAA-DA4-10-00-00AA-241A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Chain – Clean with chain cleaning fluid	S1000DBIKE-AAA-DA4-10-00-00AA-251B-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Drive train – Correlated fault	S1000DBIKE-AAA-DA4-10-00-00AA-414A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Gears – Description of how it is made	S1000DBIKE-AAA-DA5-00-00-00AA-041A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Mechs – Description of how it is made	S1000DBIKE-AAA-DA5-10-00-00AA-041A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Hubs – Clean with degreasing agent	S1000DBIKE-AAA-DA5-20-00-00AA-251C-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Shifters – Description of how it is made	S1000DBIKE-AAA-DA5-30-00-00AA-041A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Section 2 – Electrical Lighting System	S1000DBIKE-AAA-D00-00-00-02AA-001A-A	2022-12-31		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Wiring data – Field description	S1000DLIGHTING-AAA-D00-00-00-00AA-029A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Electrical system – Description of how it is made and its function	S1000DLIGHTING-AAA-D00-00-00-00AA-040A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Wiring – Equipment lists	S1000DLIGHTING-AAA-D00-00-00-00AA-056A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Wiring – Wire list	S1000DLIGHTING-AAA-D00-00-00-00AA-057A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Wiring – Loom list	S1000DLIGHTING-AAA-D00-00-00-00AA-058A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Lights – Manual test	S1000DLIGHTING-AAA-D00-00-00-00AA-341A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Lights – Observed fault	S1000DLIGHTING-AAA-D00-00-00-00AA-413A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Lighting – Assemble, install and connect procedures	S1000DLIGHTING-AAA-D00-00-00-00AA-700A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9

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Document title	Data module code Publication module code	Issue date	No. of pages	Applicable to
Lighting – Remove and install a new item	S1000DLIGHTING-AAA-D00-00-00-00AA-921A-A	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 Mk9
Light system – Illustrated Parts Data - IPD	S1000DLIGHTING-AAA-D00-00-00-00AA-941A-D	2007-02-28		Mountain bicycle Mountain storm Brook trekker Mk1 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	Identification/ 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	Identification/ 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	Identification/ 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	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

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S1000DBIKE-AAA-D00-00-00-00AA-041A-A	Fig 1	Complete bicycle
S1000DBIKE-AAA-D00-00-00-00AA-121A-A	Fig 1	Hydraulic brake function
	Fig 2	Brake pad seating
S1000DBIKE-AAA-D00-00-00-00AA-258A-A	Fig 1	Cleaning the bike
	Fig 2	Degreasing the freehub
S1000DBIKE-AAA-D00-00-00-00AA-663A-A	Fig 1	Unseating the tire with a tire lever
	Fig 2	Circle leak
	Fig 3	Sanding the application area
	Fig 4	Apply glue to application area
	Fig 5	Apply pressure to tube
S1000DBIKE-AAA-D00-00-00-00AA-941A-D	Fig 1	Bicycle
S1000DBIKE-AAA-DA0-00-00-00AA-041A-A	Fig 1	Parts of the wheel
	Fig 2	The tire and rim
	Fig 3	Valve
S1000DBIKE-AAA-DA0-10-10-00AA-921A-A	Fig 1	Removing the inner tube
S1000DBIKE-AAA-DA1-00-00-00AA-041A-A	Fig 1	Cantilever brake with straddle cable
	Fig 2	Exploded diagram of a brake
	Fig 3	Typical components of a mountain bicycle lever
S1000DBIKE-AAA-DA2-10-00-00AA-520A-A	Fig 1	Remove the bolt
S1000DBIKE-AAA-DA2-10-00-00AA-720A-A	Fig 1	Lubricate the thread
	Fig 2	Tighten the bolt
S1000DBIKE-AAA-DA2-20-00-00AA-520A-A	Fig 1	Loosen the clamp screw with the Allen wrench
	Fig 2	Loosen the clamp bolt
S1000DBIKE-AAA-DA2-30-00-00AA-041A-A	Fig 1	Headset
S1000DBIKE-AAA-DA2-30-00-00AA-520A-A	Fig 1	Lift the upper bearing cup
S1000DBIKE-AAA-DA3-00-00-00AA-041A-A	Fig 1	Welded frame joints
	Fig 2	Frame
S1000DBIKE-AAA-DA4-10-00-00AA-241A-A	Fig 1	Derailleur pivots
	Fig 2	Derailleur tension
	Fig 3	Brake lever pivots
	Fig 4	Lubricate the chain
S1000DBIKE-AAA-DA5-10-00-00AA-041A-A	Fig 1	Front derailleur
	Fig 2	Rear derailleur

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Applicable to: **S1000DBIKE-AAA-D00-00-00-00AA-00AA-A**

List of illustrations (Continued)

Data module code	Figure	Title
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

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Introduction

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Section 1

Mountain bicycle manual

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Mountain bicycle

Business rules

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Context rules .....

List of tables

1 References 1

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	//dmaddres/dmc/avee/modelic		
	Bike model identification	S1000DBIKE	S1000D Bike platform
			S1000D Bike light system
2	//dmaddres/dmc/avee/chapnum		
	Systems (Bike specific SNS)	D00	

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Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
3	//dmaddres/dmc/avee/section		
	Subsystems (Bike specific SNS)	0	
4	//dmaddres/dmc/avee/subsect		
	Subsubsystems	0	
5	//dmaddres/dmc/avee/subject		
	Units of assembly	00	
6	//dmaddres/dmc/avee/incode		
	Bike information codes	000	In accordance with Issue 2.3
			In accordance with Issue 2.3
			In accordance with Issue 2.3
			In accordance with Issue 2.3
			In accordance with Issue 2.3
			In accordance with Issue 2.3
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Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
			In accordance with Issue 2.3
			In accordance with Issue 2.3
			In accordance with Issue 2.3
			In accordance with Issue 2.3
			In accordance with Issue 2.3
7	//descendant-or-self::seqlist[ancestor-or-self::descript]		
8	//note[ancestor-or-self::warning]		
9	//warning/seqlist		
10	//warning/deflist		
11	//warning/randlist/item/randlist		
12	//warning/randlist/title		
13	//note[ancestor-or-self::caution]		
14	//caution/seqlist		
15	//caution/deflist		
16	//caution/randlist/item/randlist		
17	//caution/randlist/title		
18	//@accpnltype		
	Type of access panel	accpnl01	Access is a door
			Access is a panel
			Access is an electrical panel

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Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
19	//acronym/@acrotype		
	Type of acronym or abbreviation	at01	Acronym (Candidate for list of abbreviations) - Default value
			Term (Candidate for list of terms)
			Symbol (Candidate for list of symbols)
			Spec (Candidate for list of applicable specs)
20	//dialog/@cancel-caption		
	Caption for dialog cancel function	ca01	Sets the caption to "CANCEL"
			Sets the caption to "ABORT"
			Sets the caption to "NO"
			Sets the caption to "END"
			Sets the caption to "QUIT"
21	//security/@class		
	Security classification	01	1 (lowest level of security classification, eg Unclassified)
22	//security/@commcls		
	Commercial security classification	cc51	Open
23	//caption/@colour		
	Caption color	co00	None
			Green
			Amber
			Yellow
			Red
			White
			Grey
			Clear - Default value
			Blue (used on Bike Computer Display)
24	//priority/@cprio		
	Priority level of a comment	cp01	Routine
			Emergency
			Safty critical

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Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
25	//crewmem/@crewmem		
	Type of crew member required for drill or procedural step	cm01	All
			Bike rider
			Bike technician
26	//drill/@drilltyp		
27	//emphasis/@emph		
	Type of emphasis	em01	Bold - Default value
			Italic (only for legacy data, see Chap 3.9.1)
			Underline (only for legacy data, see Chap 3.9.1)
			Overline (only for marking vectors)
			Strikethrough (not to be used to mark deleted text)
28	//instloc/@instloctyp		
	Type of install location	instloctyp01	Zone
			Section
			Station
			Water line
			Buttock line
29	//maintlevel/@mntlvl		
	Maintenance level	ml01	Level 1 (home)
			Level 2 (authorized workshop)
30	//@originator		
	Origin of equipment/harness/wire	orig01	Manufacturer
			Vendor
			Partner
31	//randlist/@prefix		
	Prefix of 'randlist' items, limited to three variants	pf01	Simple (No prefix, only indent)
			Unorder (Depending on list level, prefix with short dash for first level, bullet for

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Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
			second, and short dash for third level - ISOpub: bull, dash) - Default value
			Dash (short dash - ISOpub: dash)
32	//parasigdata/@psdtype		
	Paragraph significant data type	psd01	Ammunition
			Instruction disposition
			Lubricant
			Maintenance level
			Manufacturer code
			Manufacturers recommendation
			Modification code
			Qualification code
			Training level
33	//quantity/@qtytype		
	Quantity data type	qty01	Length
			Price
			Temperature
			Time
			Torque value
			Voltage
			Volume
			Mass
34	//dialog/@reset-caption		
	Caption for dialog reset caption	re01	Sets the caption to "RESET"
			Sets the caption to "CLEAR"
35	//response/@rsptype		
	Type of response to a comment	rt01	Accepted
			Pending
			Partially accepted
			Rejected
36	//@skill		
	Personnel skill level	sk01	Basic
			Intermediate

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Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
			Advanced
37	//deftask/@skilltype		
38	//@submit-caption		
	Caption for dialog submit function	ok01	Sets the caption to "OK"
			Sets the caption to "SUBMIT"
			Sets the caption to "YES"
			Sets the caption to "CONTINUE"
			Sets the caption to "EXIT"
39	//supervis/@sup.lev		
	Supervisor level	sl01	Low
			Low intermediate
			High intermediate
			High
40	//@taskcode		
	Task code	taskcd01	Detailed inspection (DET)
			Discard (DIS)
			Functional Check (FNC)
			General visual inspection (GVI)
			Lubrication (LUB)
			Operational check (OPC)
			Restoration (RST)
			Servicing (SVC)
			Visual check (VCK)
41	//@tccode		
	Technical condition type (used for techcond|techcondid)	tc01	Modification: a design change defined by the manufacturer
			Service bulletin: a design change defined by the manufacturer but applied after product delivery to the customer
			Engineering order: a design change equivalent to a service bulletin but defined by the customer
			Specific technical condition not tracked like modification and service bulletin

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Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
42	//limittype/@type		
	Limit type	lt01	Time between overhaul
			Hard time
			Since last maintenance
			Out time limit
			On condition
			Check maintenance
			Functional check
43	//threshold/@uom		
	Unit of measurement for the threshold interval	th03	Months
			Weeks
			Years
			Days
			Shop visits
			Auxiliary power unit change
			Wheel change
44	//verbatim/@vstyle		
	Verbatim style	vs01	Generic verbatim
			Filename
			XML/SGML markup
			XML/SGML element name
			XML/SGML attribute name
			XML/SGML attribute value
			XML/SGML entity name
			XML/SGML processing instruction
			Program prompt
			User input
			Computer output
			Program listing
			Program variable name
			Program variable value
			Constant

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Table 2 Context rules (Continued)

No.	[Allowed object flag] Object path/Notation name		
	Object use	**Object value [Tailoring]**	**Meaning**
45	//@qtyuom		Class name Parameter name

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Bicycle

Description of how it is made

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Description 1
1 Physical description of a bicycle 1

List of tables

1 References 1
2 Bicycle parts 2

List of figures

1 Complete bicycle 2

References

Table 1 References

Data module/Technical publication	Title
None	

Description

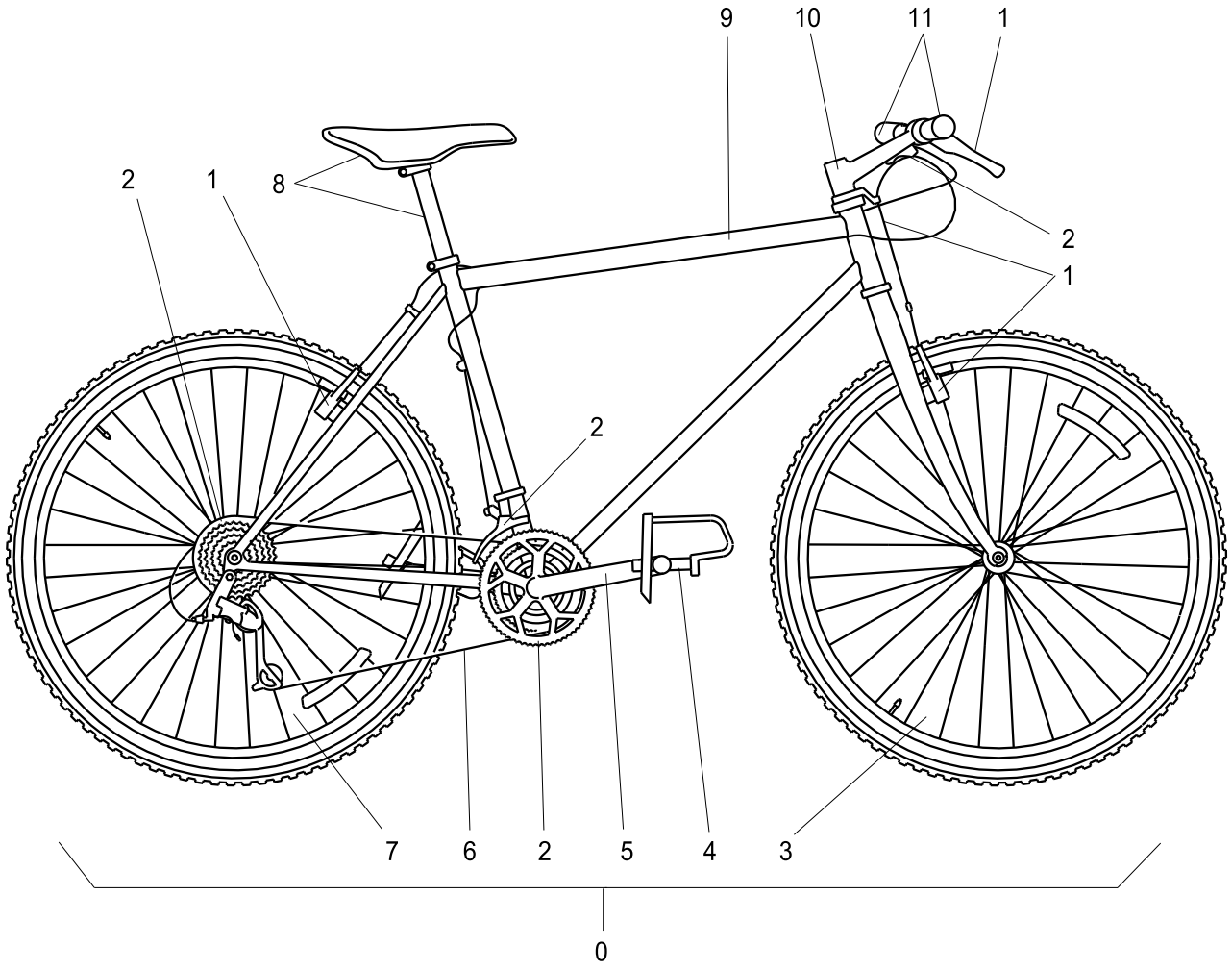
1 Physical description of a bicycle

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 toFig 1 [0]) to do:

- an inspection
- a maintenance task
- a repair task

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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]	

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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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1 Functional description of a bicycle 1

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1 References 1

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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-

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	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.

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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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2.3 Shifters 2
2.4 Brakes 2
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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

Crew

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 Steering
- Para 2.3 Shifters
- Para 2.4 Brakes
- Para 2.5 Pedals

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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 shifters follows.

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 brake levers Table 2 follows .

Brake Lever Location	Affected Gears
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.

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Bicycle

Pre-operation procedures (crew)

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4 Support equipment 2
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2 Brake pad seating 4

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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	

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Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,25 h

Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Tire pressure gauge	Part No. KZ666/BSK-TLST-001-01	1 EA	
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
General lubricant	Part No. KZ222/LL-001	As required	

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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.

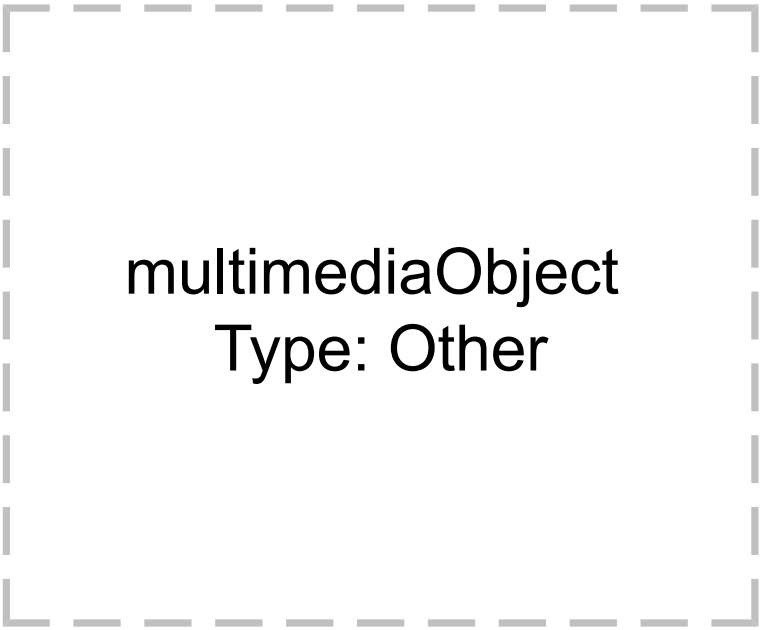
1.3 Clean all the unwanted material.

2 Do an inspection of the installation of the brakes.

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2.1 Check the hydraulic brake system function.



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Fig 1, Hydraulic brake function

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

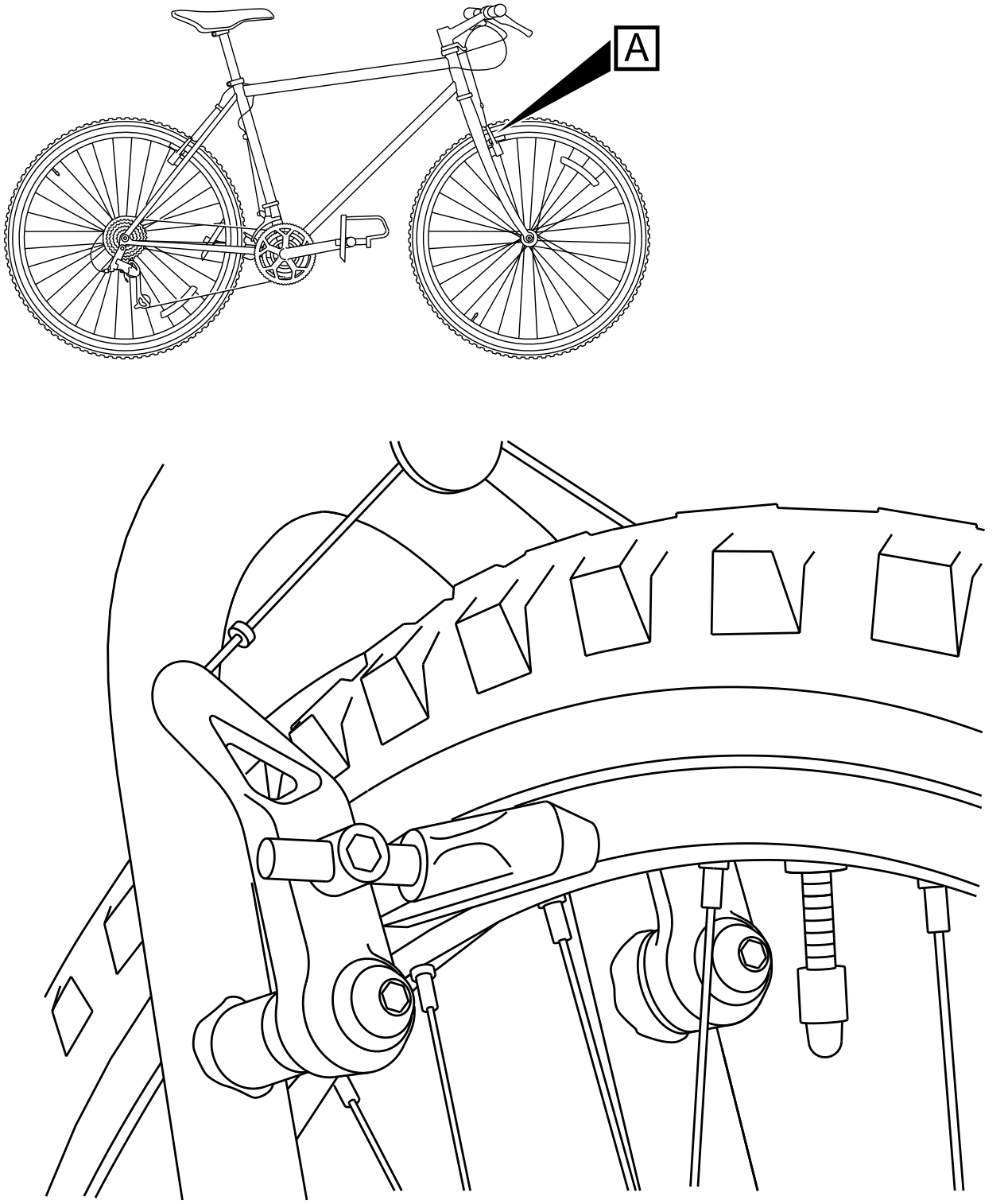
2.3

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.

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Fig 2 Brake pad seating

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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.

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Requirements after job completion

Required conditions

Table 7 Required conditions

Action/Condition	Data module/Technical publication
None	

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Bicycle

Normal operation procedures (crew)

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References

Table 1 References

Data module/Technical publication	Title
None	

Crew

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

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Tires

1 Pressure.....

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

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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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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	

Support equipment

Table 3 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	

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Consumables, materials and expendables

Table 4 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
General lubricant	Part No. KZ222/LL-001	As required	

Spares

Table 5 Spares

Name/Alternate name	Identification/Reference	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.

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Requirements after job completion

Required conditions

Table 6 Required conditions

Action/Condition	Data module/Technical publication
None	

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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	

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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*

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

Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Water hose	Part No. KZ666/BSK-TLST-001-09	1 EA	
Stiff bristle brush	Part No. KZ666/BSK-TLST-001-02	1 EA	
Sponge	Part No. KZ666/BSK-TLST-001-11	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

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

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

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Safety conditions

WARNING

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

WARNING

Do not get Detergent B 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

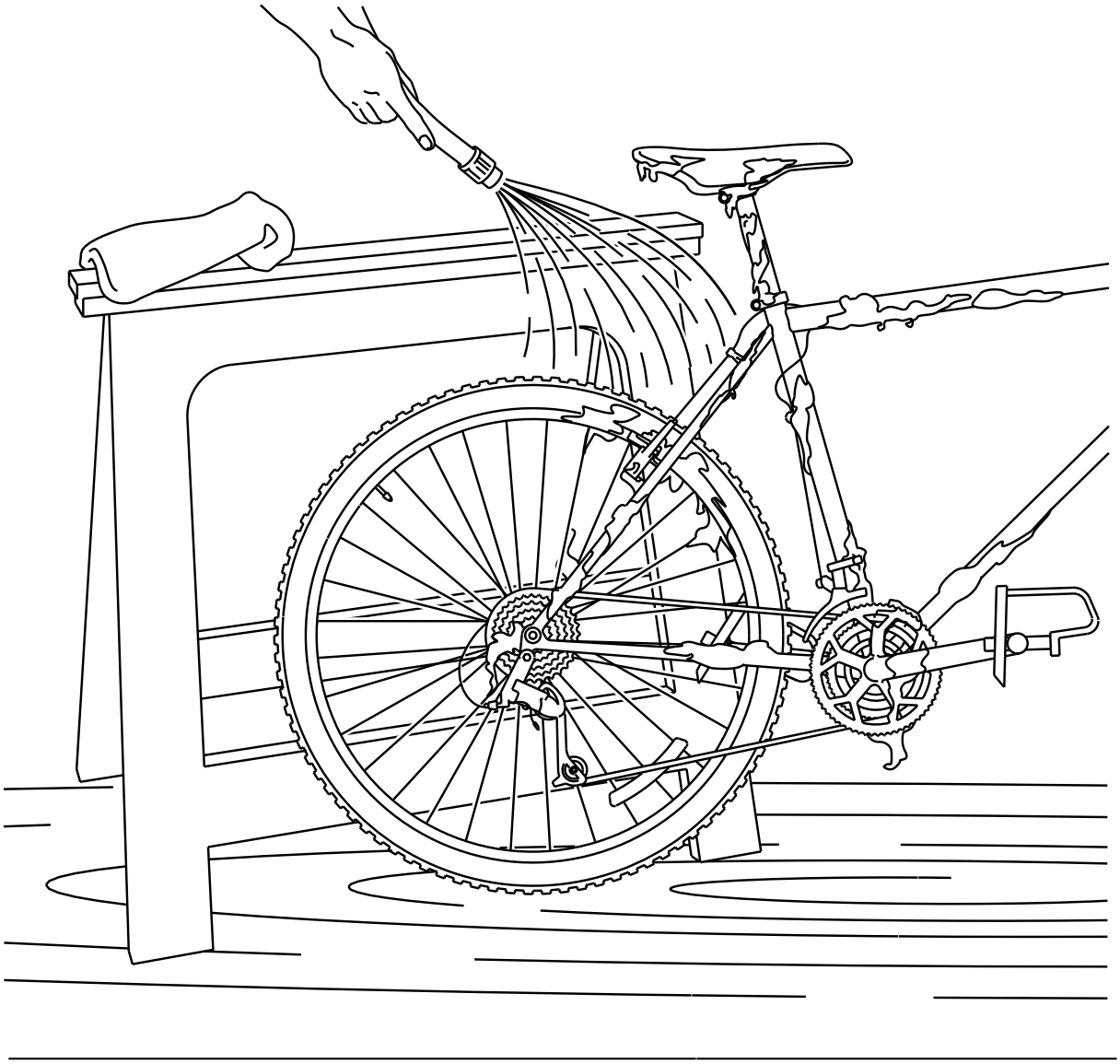
Apply Detergent B in accordance with the instruction on the container. The substance may cause damage to the Bike paint if it is not applied correctly.

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Procedure

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



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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

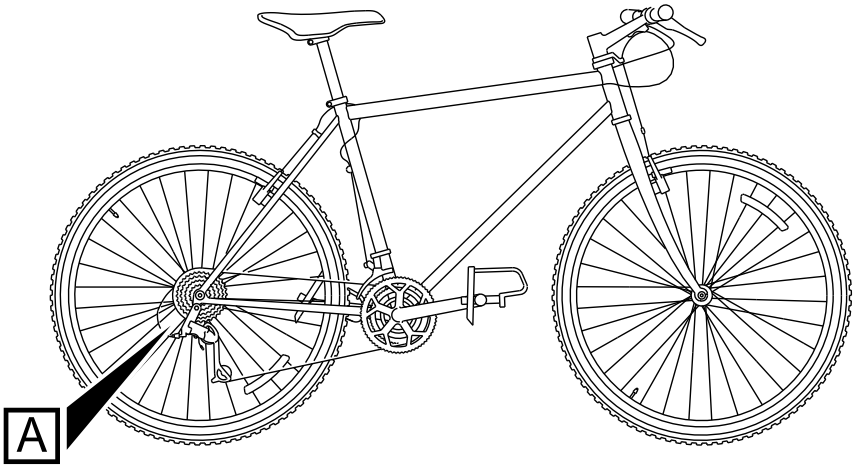
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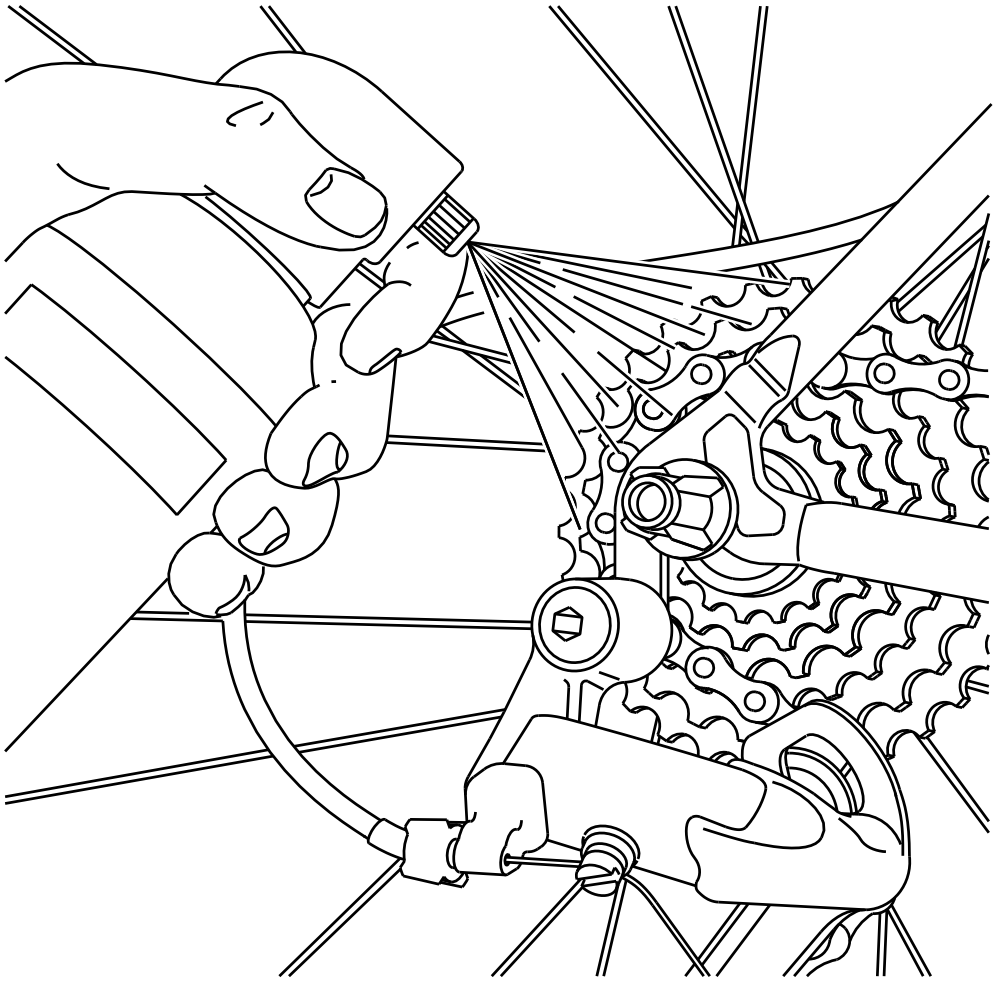
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- guide and tension wheels of the derailleur
- chain ring teeth

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Fig 2 Degreasing the freehub

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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*
6

6.1 Soak the Sponge into Detergent A and water.

6.2 Clean the bicycle with the soaked sponge.

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

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

Applicable to: *Mountain bicycle Brook trekker Mk9*
7

7.1 Soak the Sponge into Detergent B and water.

7.2 Clean the bicycle with the soaked sponge.

7.3 Soak the Sponge into Detergent A and water.

7.4 Fully clean the bicycle with the soaked sponge.

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

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

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

Requirements after job completion

Required conditions

Table 7 Required conditions

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

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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	0,25 h

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Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Test stand	Part No. KZ666/BSK-TLST-999-01	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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	

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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	

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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/Alternate name	Identification/Reference	Quantity	Remark
Tire lever	Part No. KZ666/BSK-TLST-001-04	1 EA	
Foot pump	Part No. KZ666/BSK-TLST-001-05	1 EA	
Marker pen	Part No. KZ666/BSK-TLST-001-07	1 EA	
Tube patch kit	Part No. KZ666/BSK-TLST-001-07	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
Inner-tube	Part No. KT222/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)

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

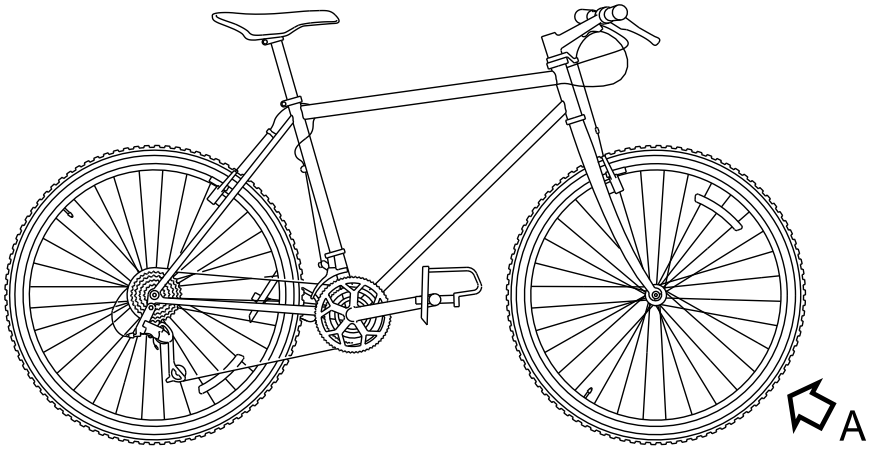
2.1 Loosen the cap on the valve stem.

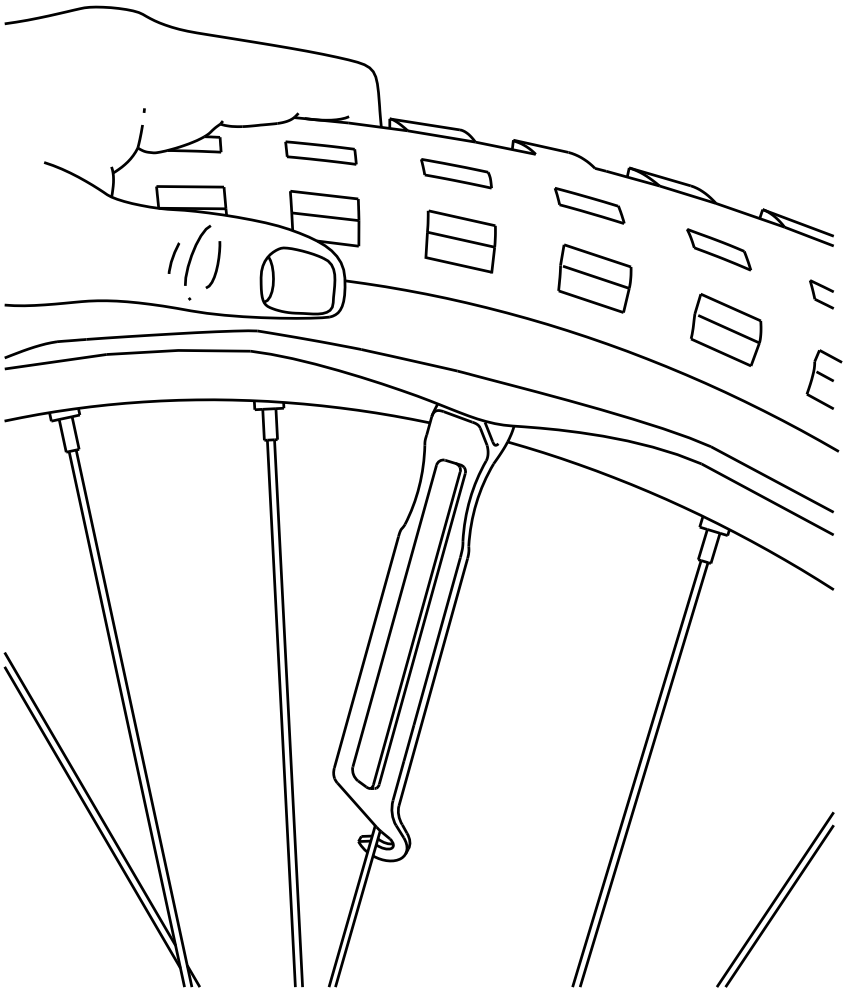
2.2 Push the valve stem core down to bleed all the air.

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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A

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Fig 1 Unseating the tire with a tire lever

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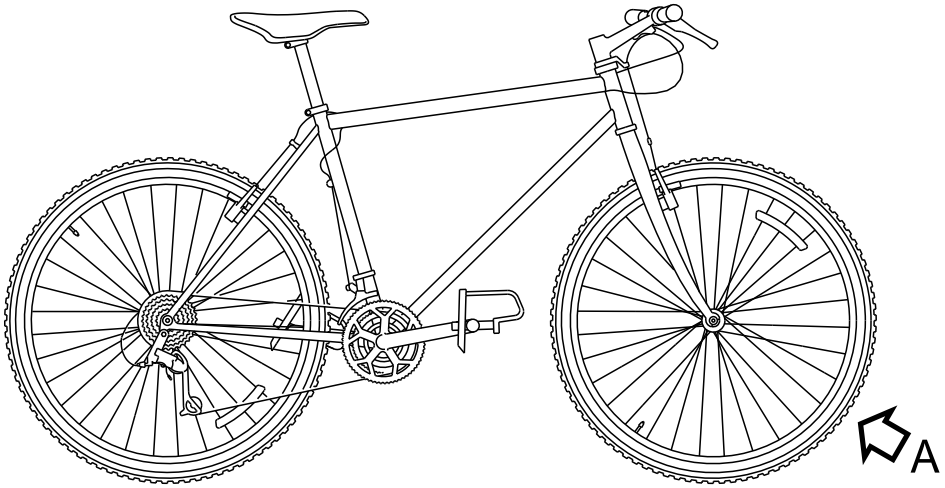
4 Remove the tube.

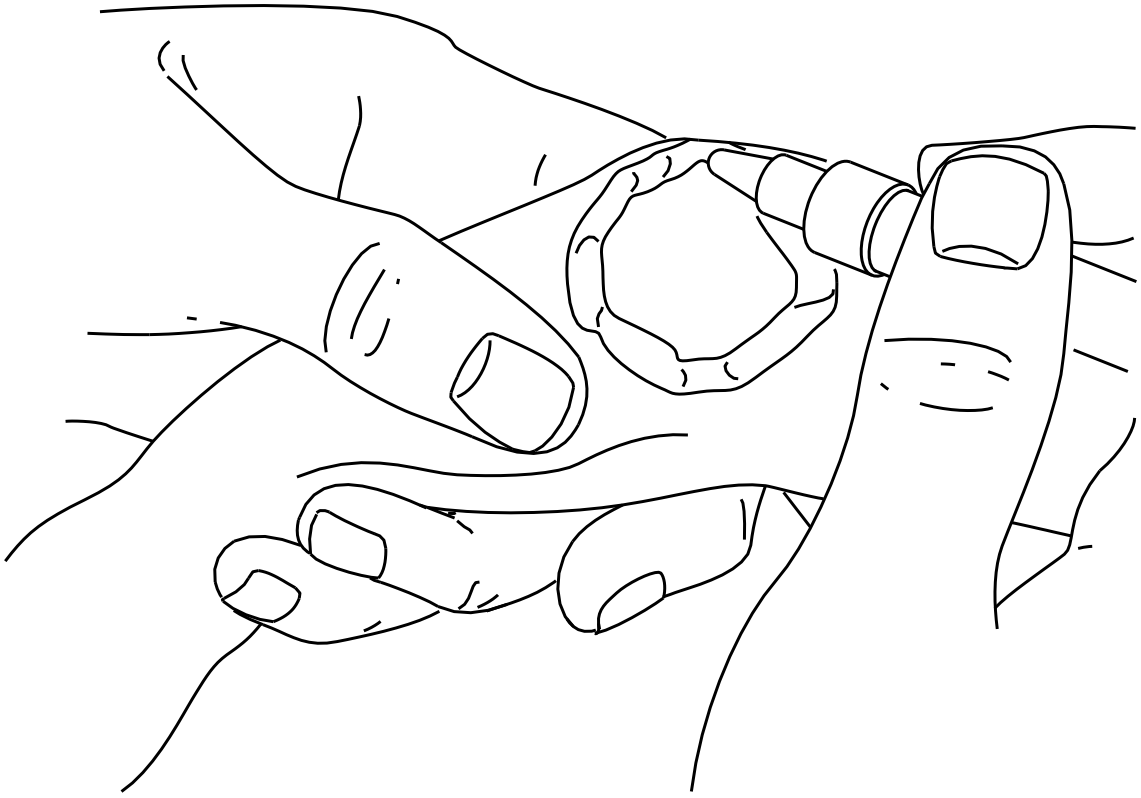
5 Inflate (not fully) the tube with the Foot pump. Examine the tube for leaks.

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

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A

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Fig 2 Circle leak

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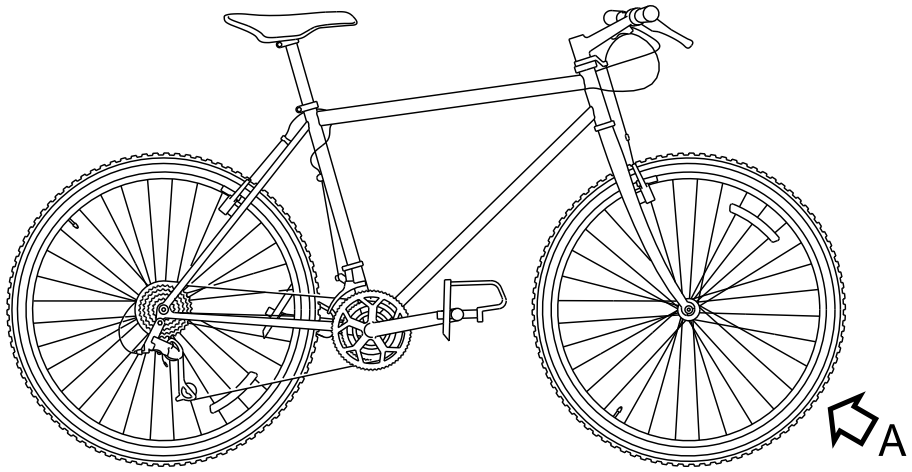
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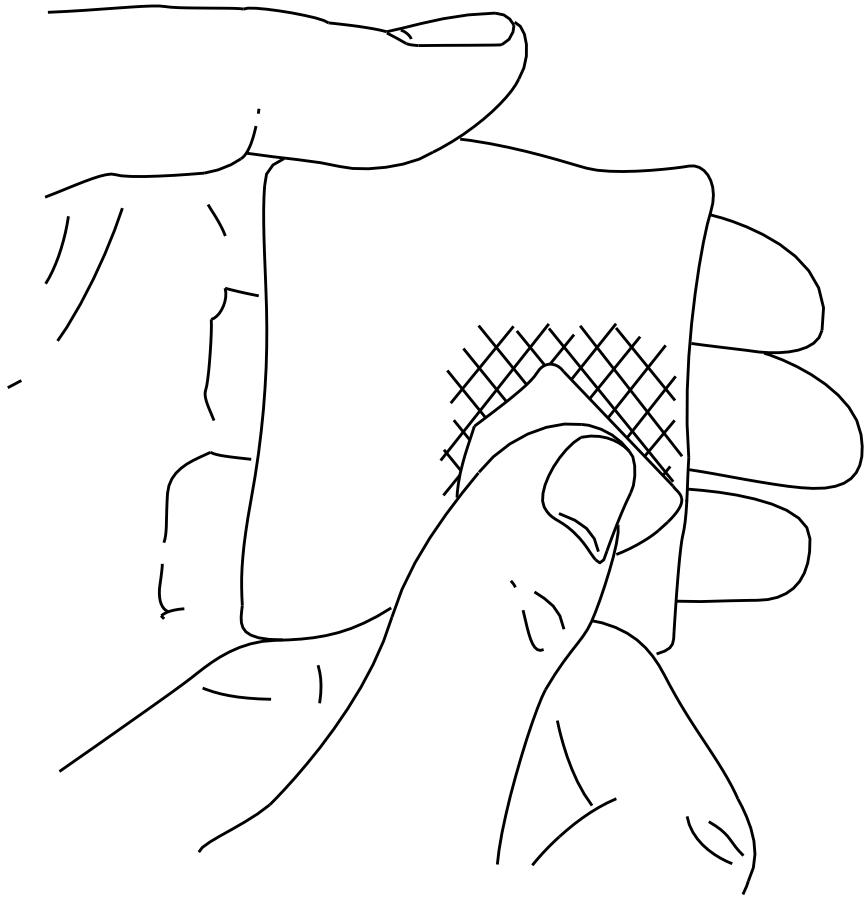
7 Release most of the air.

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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A

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Fig 3 Sanding the application area

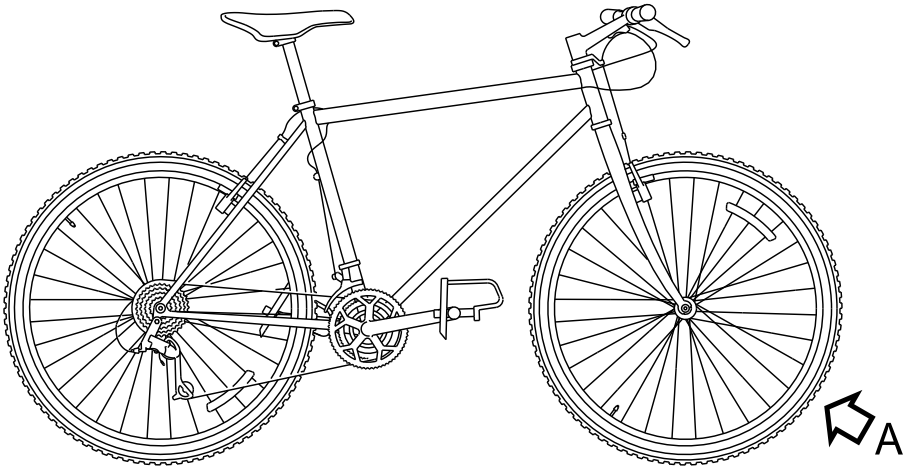
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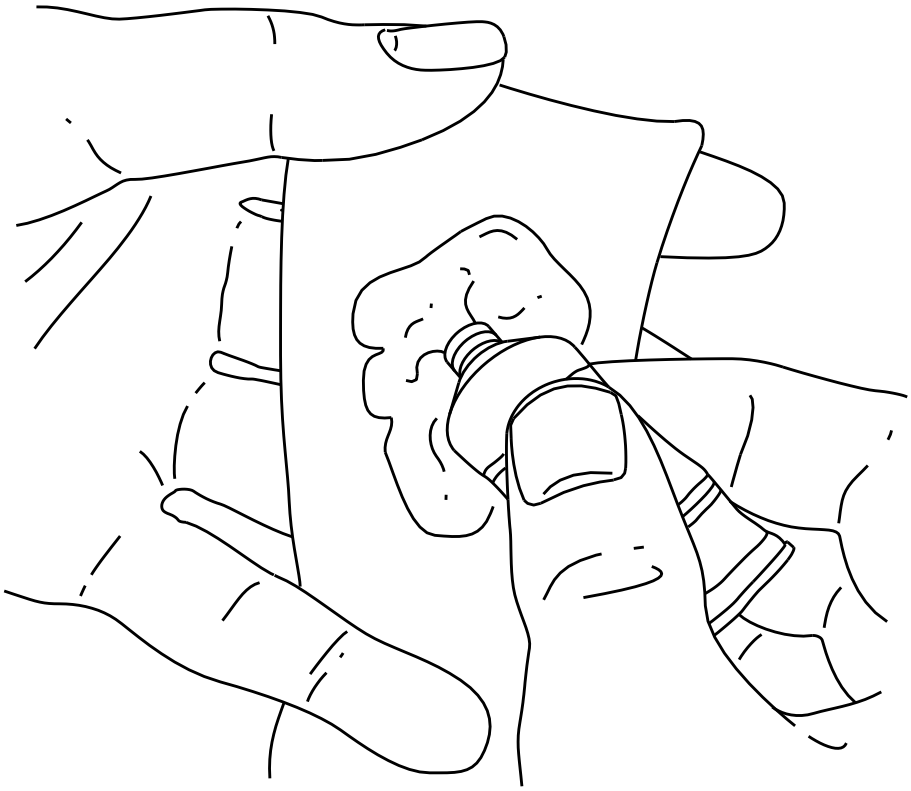
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9 Apply a thin layer of glue from the patch kit on and around the hole. Make sure that the area with the glue is larger than the patch.

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Fig 4 Apply glue to application area

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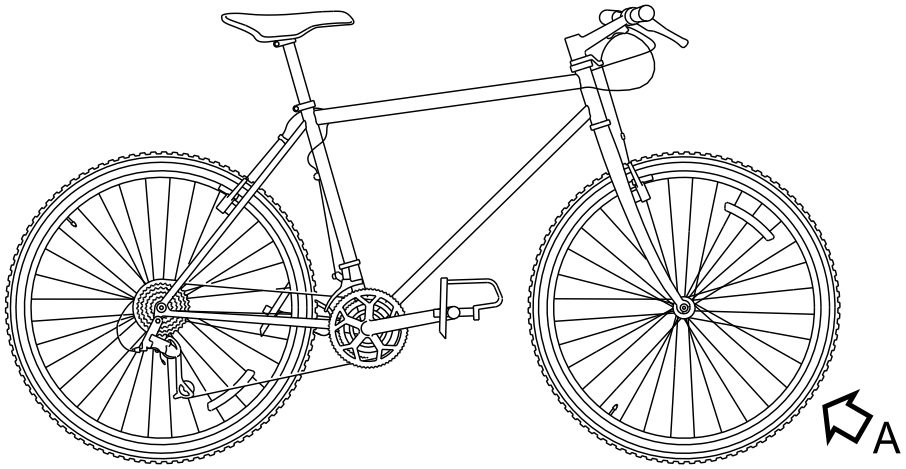
10 Let the glue dry for five minutes until it becomes tacky and dim.

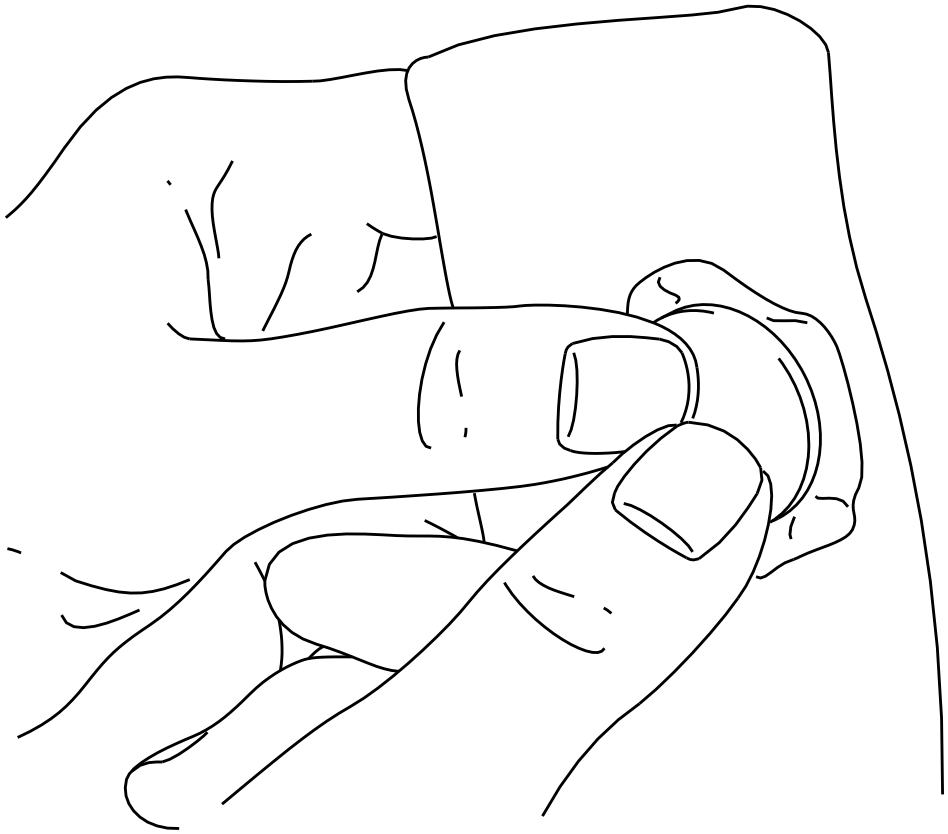
11 Remove the rear foil from the patch (that is a part of the patch kit) and push the patch in its position.

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

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Fig 5 Apply pressure to tube

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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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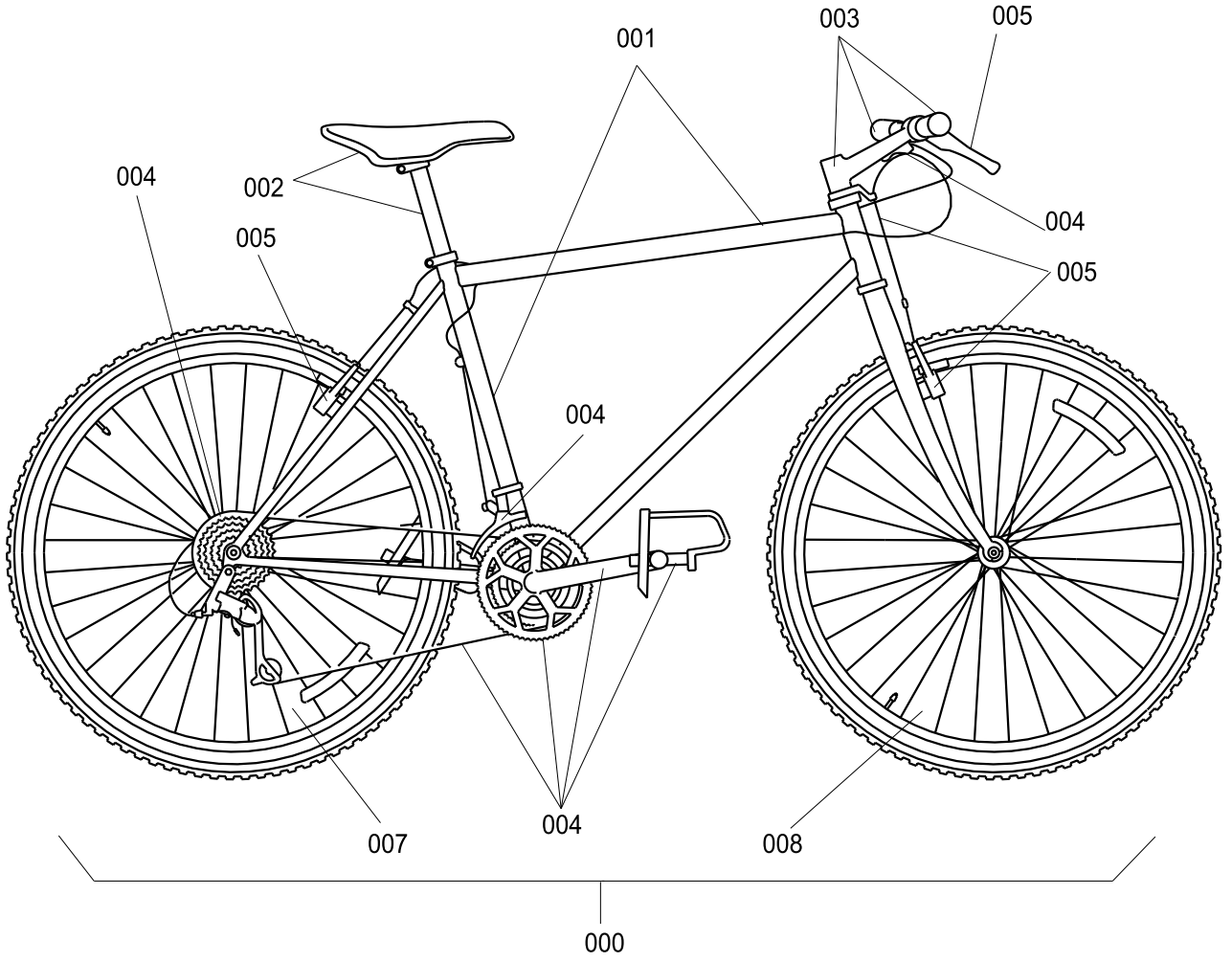
References

Table 1 References

Data module/Technical publication	Title
None	

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Fig 1A Bicycle

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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
1A							
	0	REF	KZ999	BICYCLE-001	Bicycle	• MB	
	1	1 EA	KZ999	BICYCLE-001/1	• Frame assembly	• MB	
	2	1 EA	KZ999	BICYCLE-001/2A	• • Seat, assembly	• MB	
	2	1 EA	KZ999	BICYCLE-001/2B	• • Cruiser Seat, assembly	• MB	
	3	1 EA	KZ999	BICYCLE-001/3	• • Steering system	• MB	
	4	1 EA	KZ999	BICYCLE-001/4	• • Drive train system	• MB	
	5	1 EA	KZ999	BICYCLE-001/5	• • Brake sub-system	• MB	
	6	1 EA	KZ777	LRU1001	• • Light system	• MB	
	7	1 EA	KZ888	WH-001	• • Wheel, assembly rear	• MB	
	8	1 EA	KZ888	WH-002	• • Wheel, assembly front	• MB	
	9	1 EA	KZ888	CP-001	• • Computer	• MB	

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Bicycle

Time limits

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

Worthiness limitation:..... Recommended
Task description:..... To do the pre-ride checks

Requirement source

Source of requirement:..... MRB
Approval:..... ap01
Issue No.:..... 001
Issue date:..... 2006-01-01
FEC:..... Evident, safety

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	0,25 h

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Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Tire pressure gauge	Part No. KZ666/BSK-TLST-001-01	1 EA	
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
General lubricant	Part No. KZ222/LL-001	As required	

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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

1 Day ± 1
Inspection type: Daily

Applicability

Mountain bicycle

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Task ident: 002

Worthiness limitation:..... Recommended
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	0,25 h

Support equipment

Table 9 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 10 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
General lubricant	Part No. KZ222/LL-001	As required	

Spares

Table 11 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Safety conditions

None

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References

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

Equipment

- Bicycle
  MFR: KZ555 /PN: Bicycle-001

Limit

Perform periodically

Condition: Dirty

1 Day ± 1
Inspection type: Daily

Applicability

Mountain bicycle

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Task ident: 003

Worthiness limitation:..... Recommended
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	0,25 h

Support equipment

Table 14 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Consumables, materials and expendables

Table 15 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
Rubbing alcohol	Part No. KZ222/LL-002	As required	

Spares

Table 16 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Safety conditions

None

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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

Applicability

Mountain bicycle

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Task ident: 004

Worthiness limitation:..... Recommended
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	0,25 h

Support equipment

Table 19 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Stiff bristle brush	Part No. KZ666/BSK-TLST-001-02	1 EA	
Chain cleaning fluid	Part No. KZ222/LL-003	As required	
Chain cleaning tool	Part No. KZ666/BSK-TLST-001-03	1 EA	

Consumables, materials and expendables

Table 20 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
Floor covering	Part No. /	As required	
General lubricant	Part No. KZ222/LL-001	As required	

Spares

Table 21 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

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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

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Task ident: 005

Worthiness limitation:..... Recommended
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	0,75 h
Man A	Basic user		Operator	0,25 h

Support equipment

Table 24 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 25 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
Degreasing agent	Part No. KZ222/LL-004	As required	
General grease	Part No. KZ222/LL-005	As required	

Spares

Table 26 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

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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

Applicability

Mountain bicycle

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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**	
•	Perform periodically Condition: Pre-ride Sampling: Pre-ride 1 th51 ± 1 Inspection type: Pre Limit range: from: 1 th51 ± 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	

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(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	

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Wheel

Description of how it is made

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1.2 Wheel rim 4
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References

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:

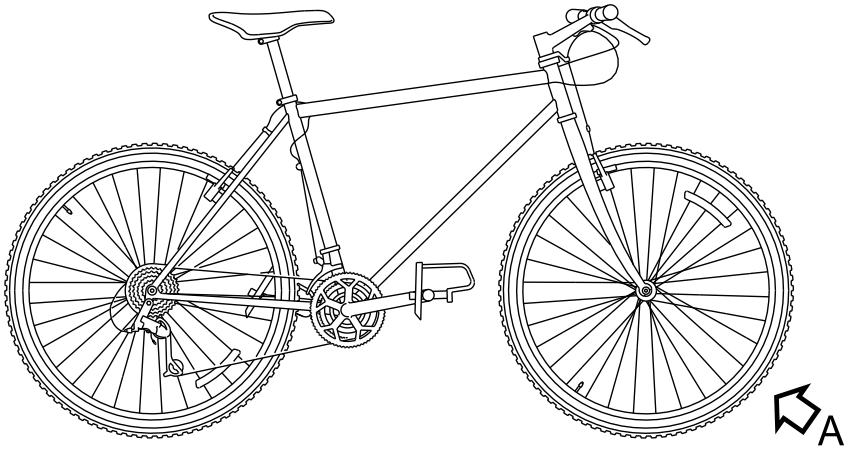
- the tire
- the tube
- the spokes
- the spoke nipples
- the valve
- the hub

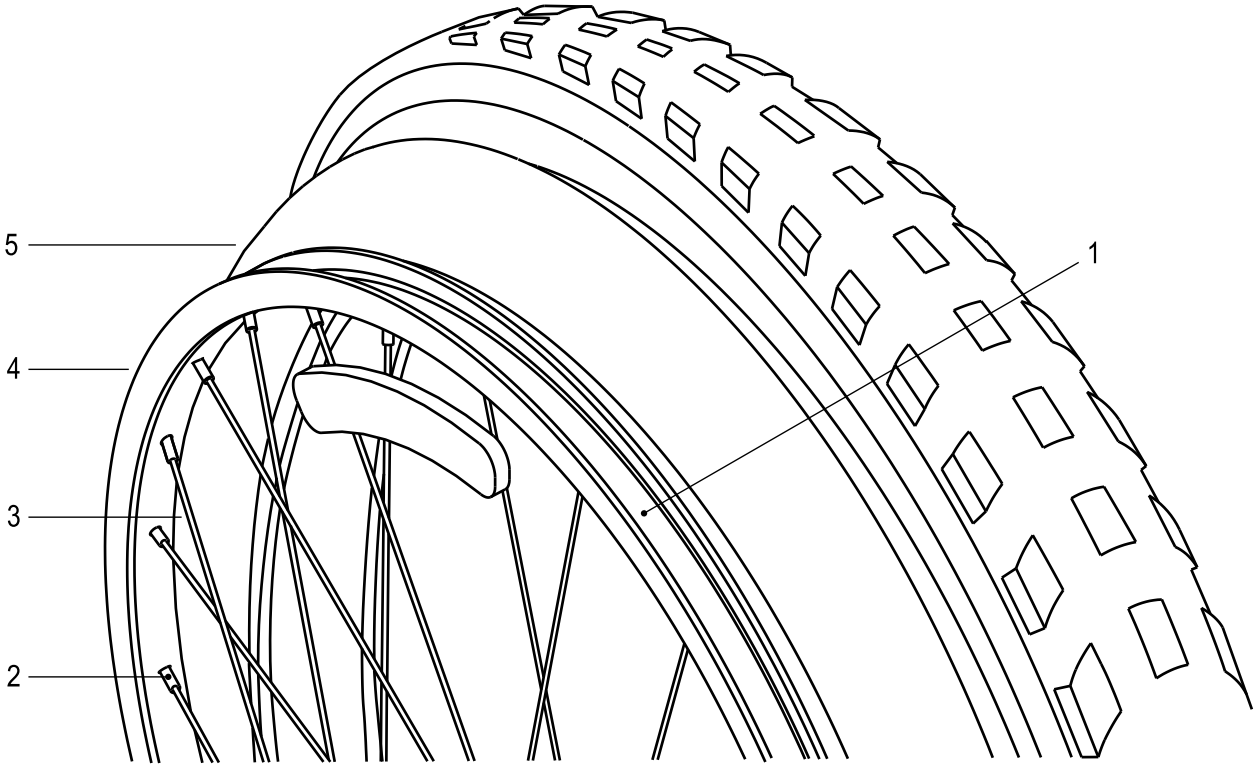
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On their own, the individual components are not very strong. But, when they are installed together, the components make the complete wheel (refer to Fig 1). The complete wheel is resistant to almost any type of heavy loads and operation.

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A

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

Fig 1 Parts of the wheel

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1.1 Spokes

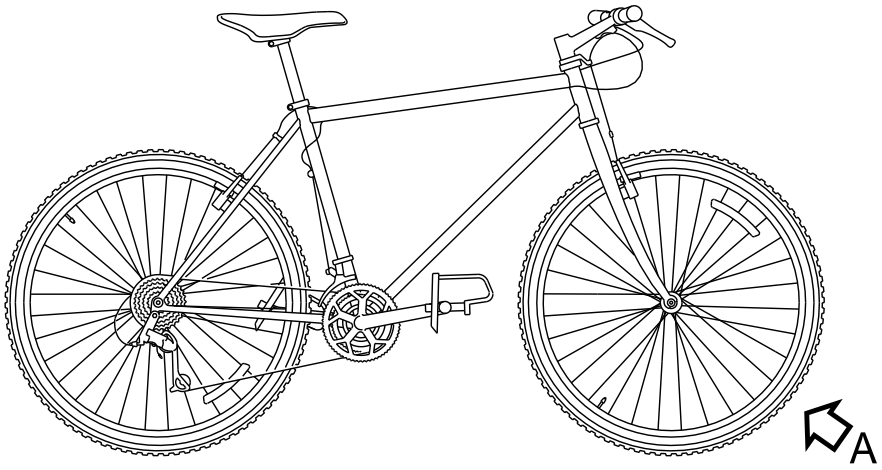
The spokes go out from the hub and go across and below each other. The spoke nipples attach the spokes to the rim with the threads on the end of the spokes. You can use the spoke nipples to adjust the tension of the spokes. The tension on each of the spokes must be equal.

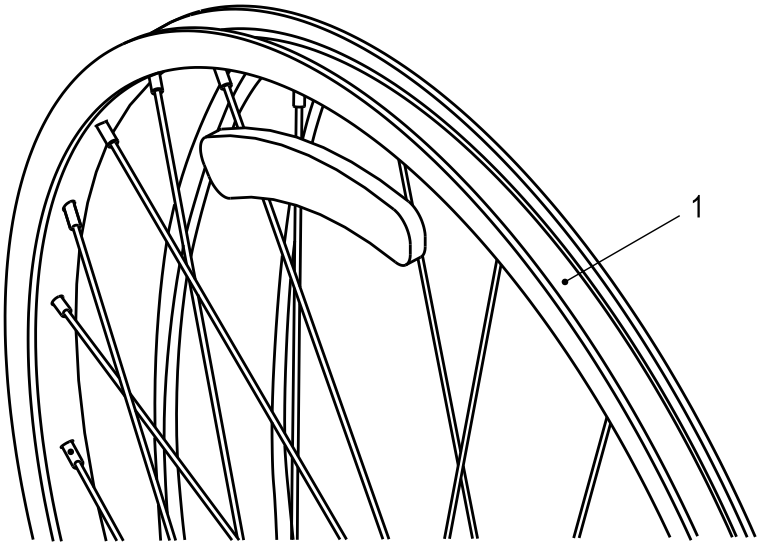
1.2 Wheel rim

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.

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Fig 2 The tire and rim

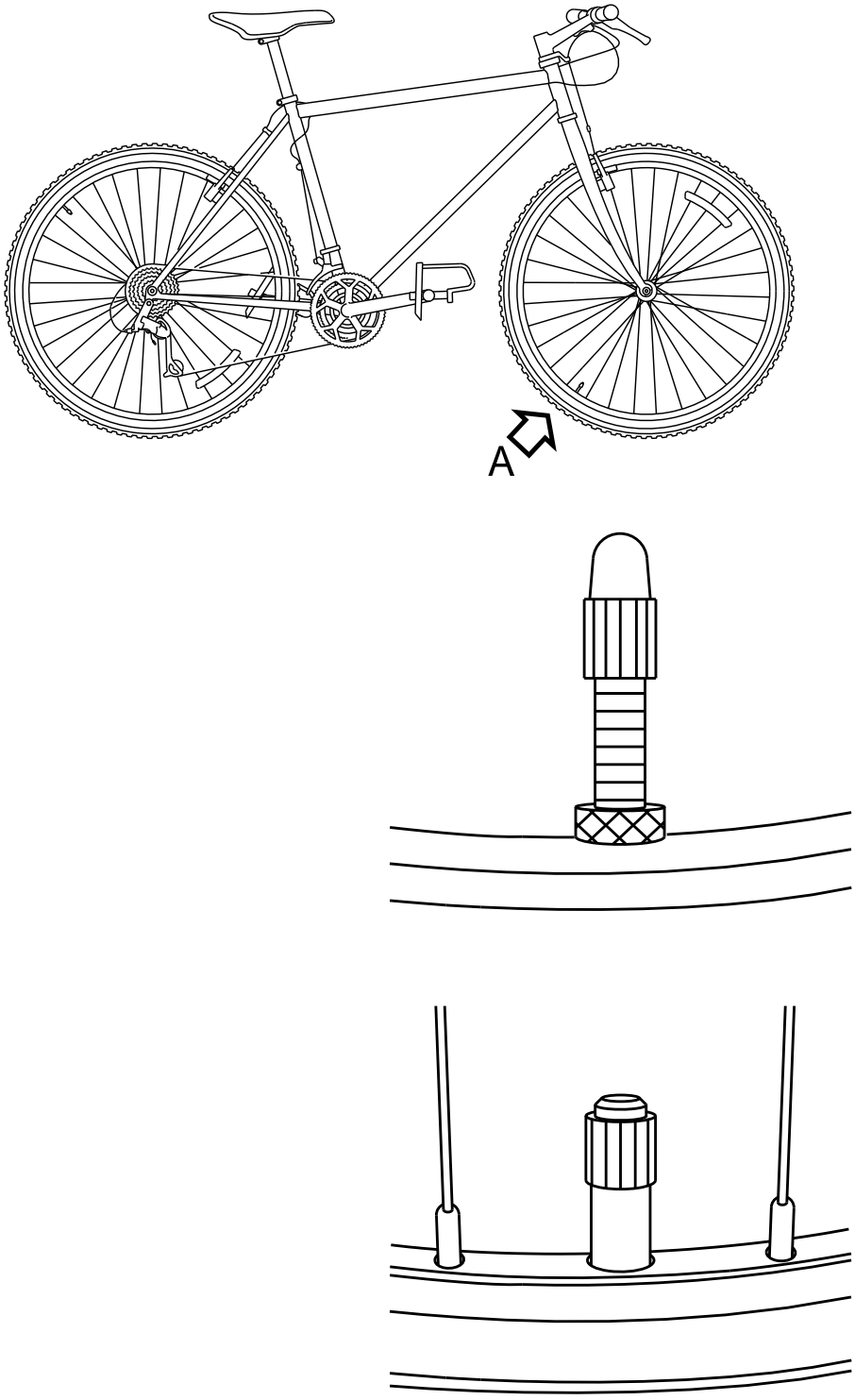
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1.3 Tube and tire

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.

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Fig 3 Valve

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Inner tube

Remove and install a new item

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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

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Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,25 h

Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
Inner tube	Part No. KT222/IT-001	1 EA	

Safety conditions

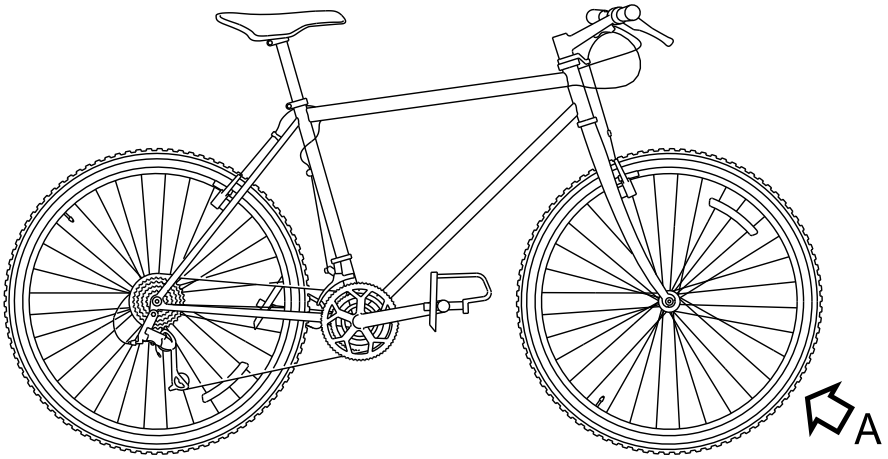
CAUTION

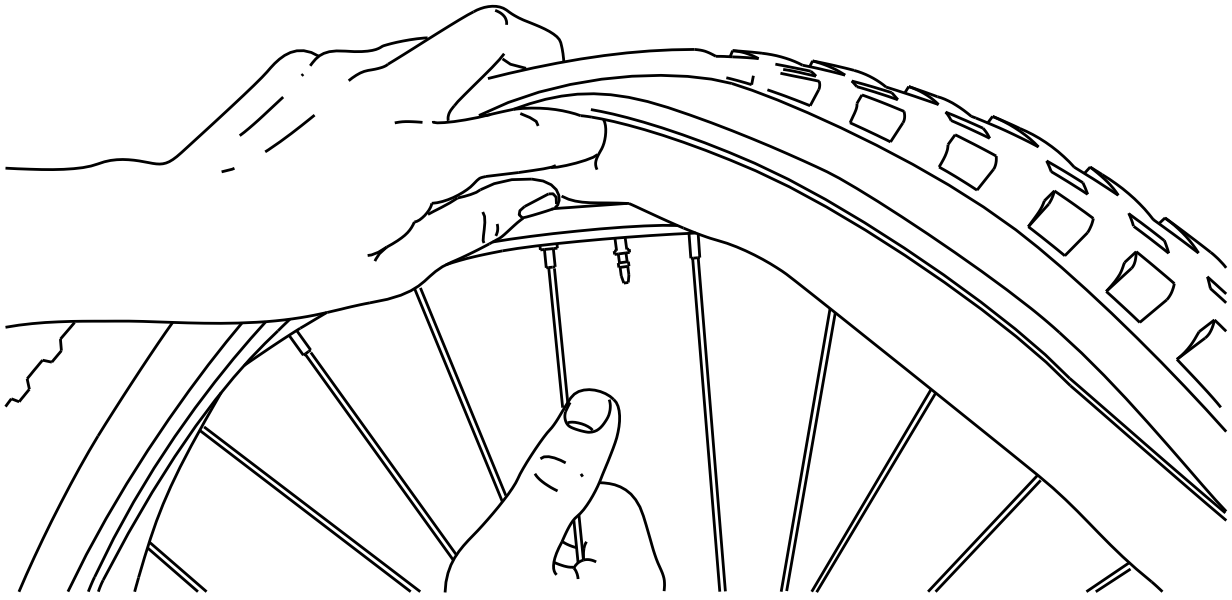
Be careful with sharp or hard tools. They can cause damage to the inner tube.

Procedure

1 Remove the old inner-tube.

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Fig 1 Removing the inner tube

2 Install the new Inner tube.

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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

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Tire

Fill with air

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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	0,25 h

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Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	
Foot pump	Part No. KZ666/BSK-TLST-001-05	1 EA	
Tire pressure gauge	Part No. KZ666/BSK-TLST-001-01	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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.

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Requirements after job completion

Required conditions

Table 7 Required conditions

Action/Condition	Data module/Technical publication
None	

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Tire

Check pressure

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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
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	

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Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,25 h

Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Tire pressure gauge	Part No. KZ666/BSK-TLST-001-01	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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.

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Requirements after job completion

Required conditions

Table 7 Required conditions

Action/Condition	Data module/Technical publication
None	

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Front wheel

Fault reports and isolation procedures

Fault codes

Fault code	Fault description
NYCJD04	Tire does not function correctly

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Data module/Technical publication	Title
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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

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Preliminary requirements

Required conditions

Table 2 Required conditions

Action/Condition	Data module/Technical publication
None	

Support equipment

Table 3 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Tire pressure gauge	Part No. KZ666/BSK-TLST-001-01	1 EA	
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 4 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 5 Spares

Name/Alternate name	Identification/Reference	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

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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

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Tire

Remove and install a new item

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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	

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Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,25 h

Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	
Tire lever	Part No. KZ666/BSK-TLST-001-04	1 EA	
Tire pressure guage	Part No. KZ666/BSK-TLST-001-01	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
Tire	Part No. KT666/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.

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7	Use the Tire lever from the Specialist toolset and attach the new Tire to the wheel. Refer to S1000DBIKE-AAA-DA0-10-20-00AA-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

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Rear wheel

Detected fault

Fault codes

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

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Fault reporting 1

List of tables

1 References 1

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

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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

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Rear wheel

Remove procedures

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7 Required conditions 2

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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	

Required persons

Table 3 Required persons

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

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Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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	

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Brake system

Description of how it is made

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3 Typical components of a mountain bicycle lever 7

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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)

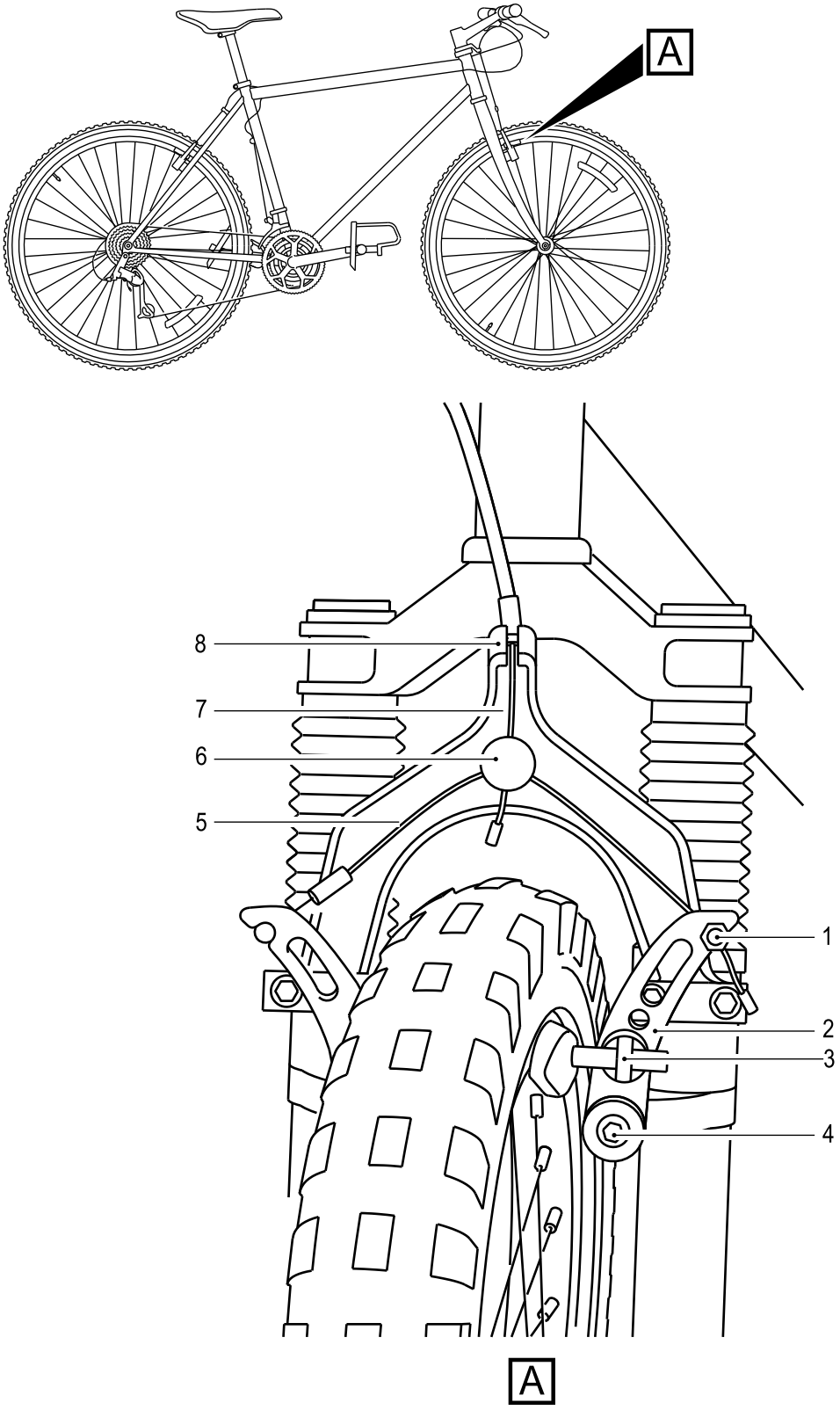
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the brake cable
the brake arm
the brake clamp (also known as callipers)
the brake pads (refer to Para 1.2)

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Fig 1 Cantilever brake with straddle cable

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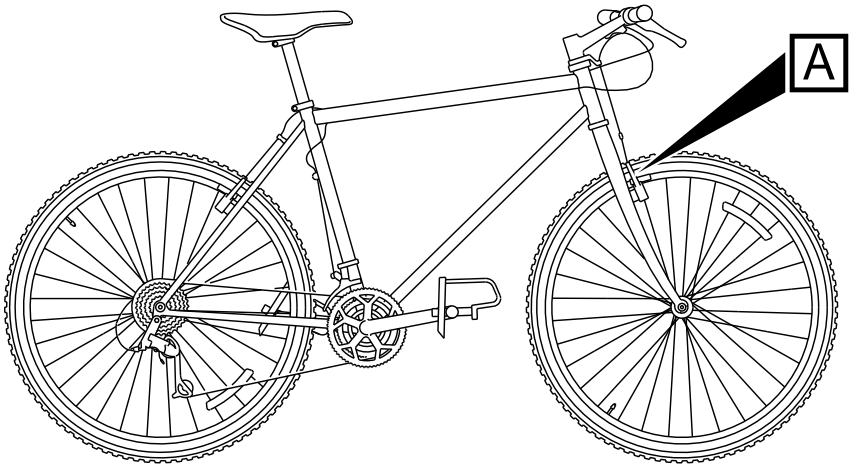
A cable that goes from the brake levers on the handlebars pulls the two levers on the brakes together. This presses the brake pads against the outer rim of the wheel, which decreases the speed of the bicycle.

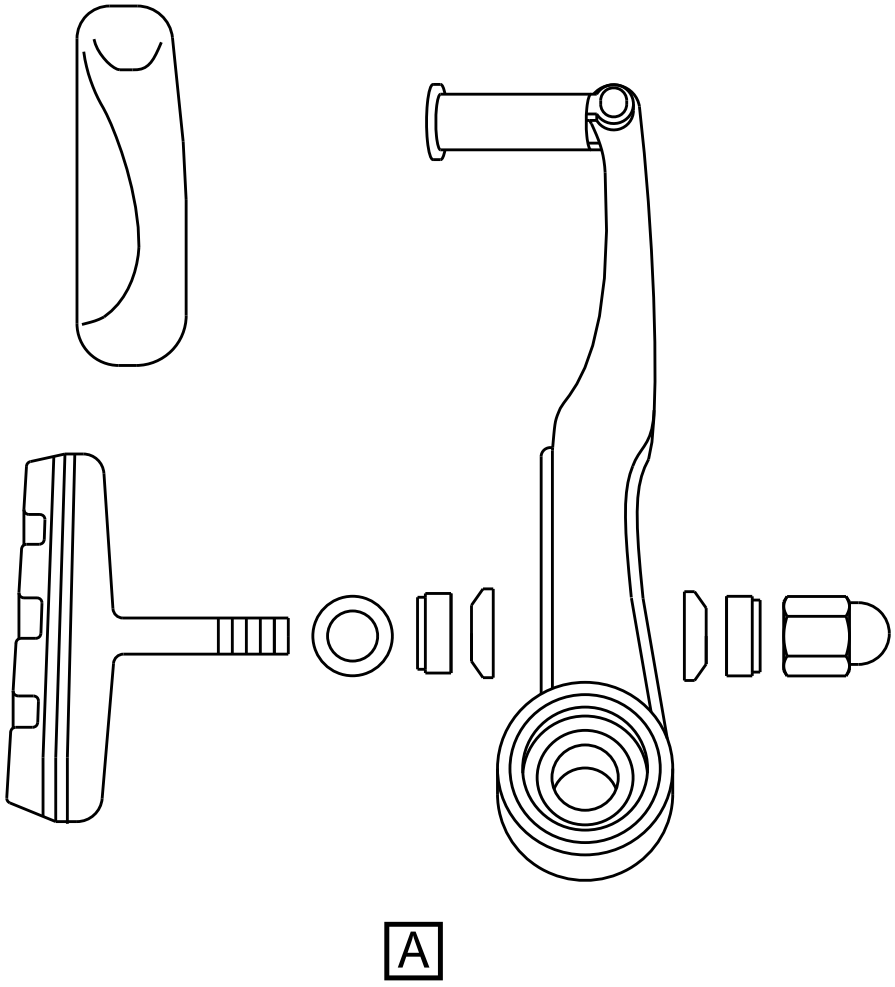
1.2 Brake pads

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

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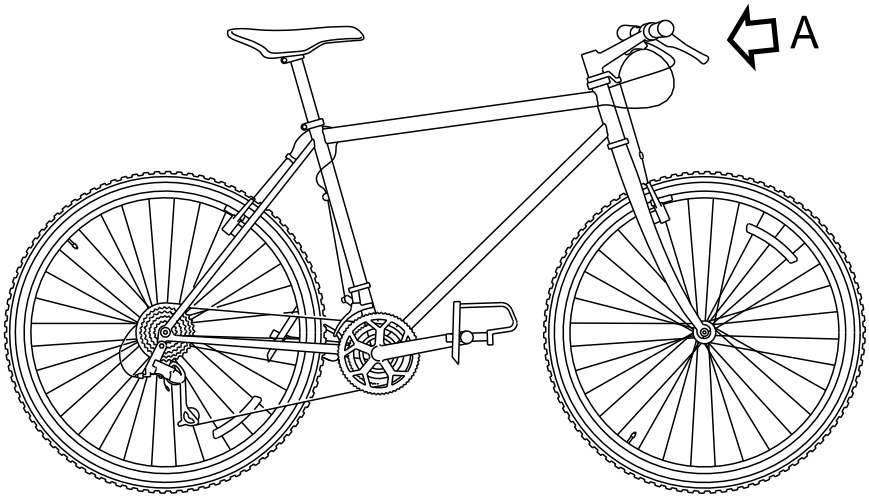
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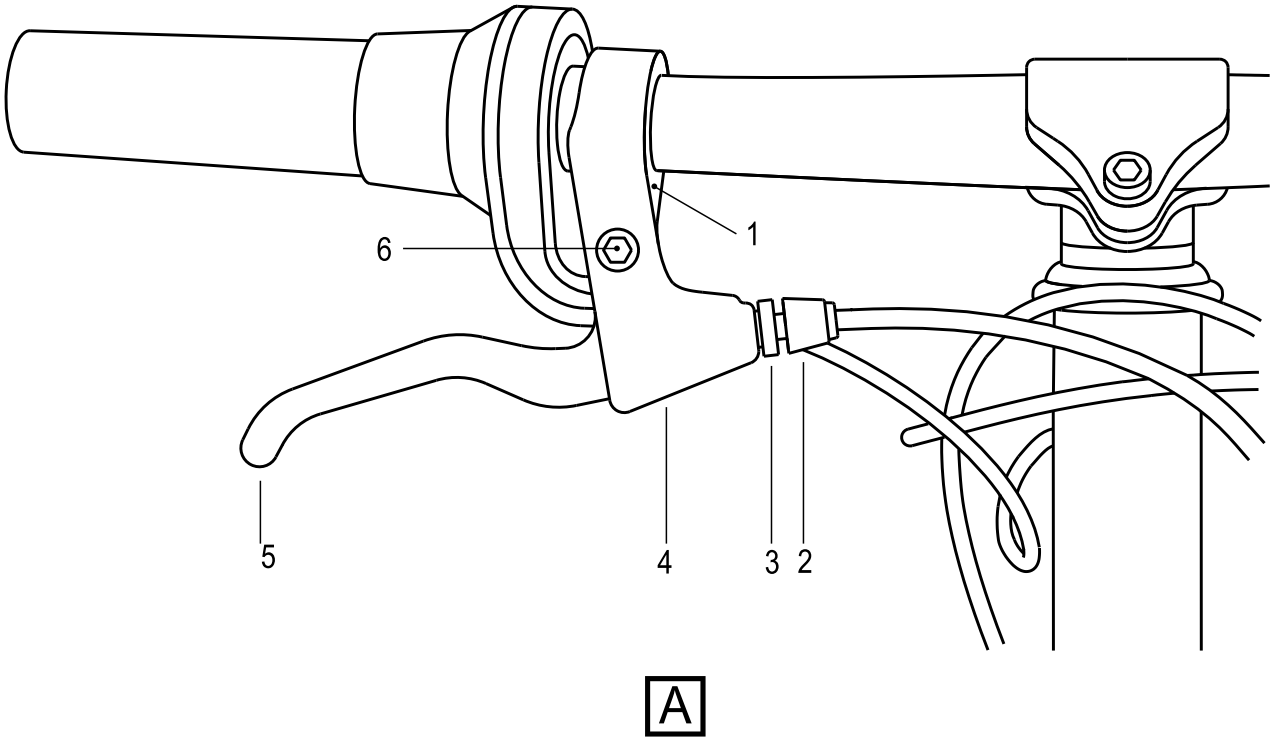
1.3 Brake lever

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.

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Fig 3 Typical components of a mountain bicycle lever

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

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Brake system

Manual test

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6 Spares 2
7 Required conditions 2

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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	

Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man A	Basic user		Operator	0,25 h

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Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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	

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Brake pads

Clean with rubbing alcohol

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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)

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	0,25 h

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Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
Rubbing alcohol	Part No. KZ222/LL-002	As required	

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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.

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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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1.2 Headset 2
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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 1.1The handlebar
Para 1.2The headset
Para 1.3The stem

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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.

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Stem

Remove procedures

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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	

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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/Alternate name	Identification/Reference	Quantity	Remark
Set of Allen wrenches	Part No. KZ666/BSK-TLST-001-13	1 EA	
Work stand	Part No. KZ555/Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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.

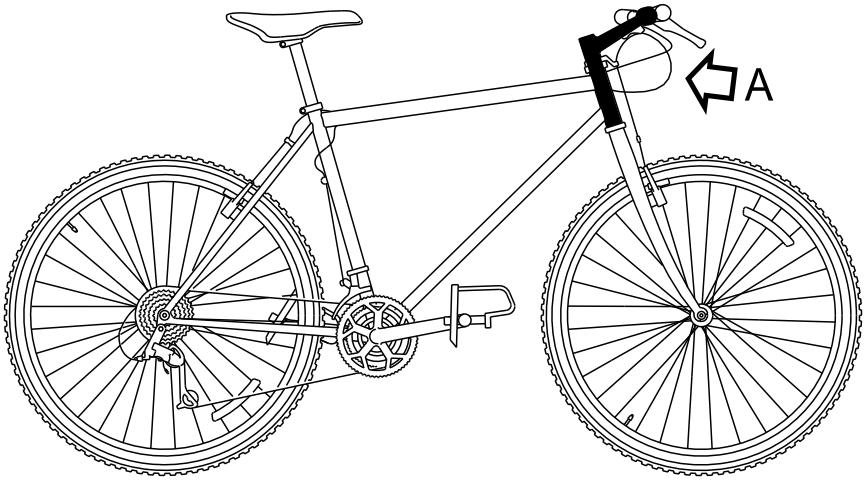
Procedure

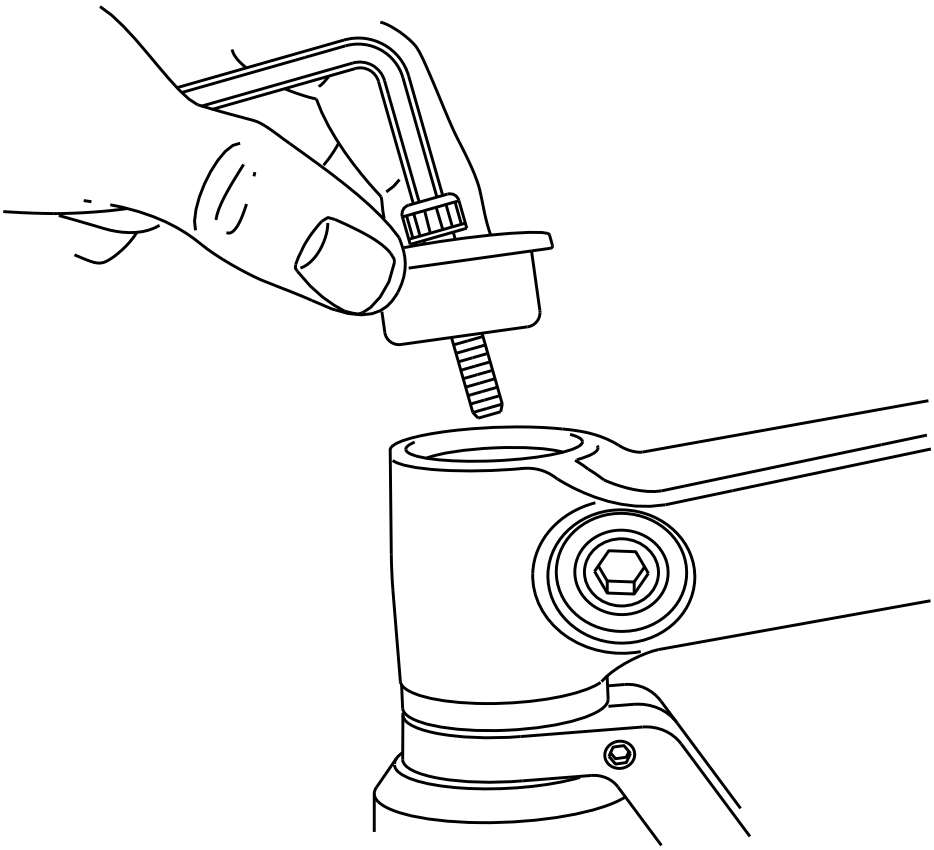
1 Remove the handlebar S1000DBIKE-AAA-DA2-20-00-00AA-520A-A.

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

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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	

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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	

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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/Alternate name	Identification/Reference	Quantity	Remark
Clean dry cloth	Part No. KZ666/BSK-TLST-001-12	1 EA	
Work stand	Part No. KZ555/Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
Rubbing alcohol	Part No. KZ222/LL-002	1 L	
General lubricant	Part No. KZ222/LL-001	1 L	

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
Stem	Part No. KZ555/St-001	1 EA	
Stem bolt	Part No. KZ555/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.

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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.

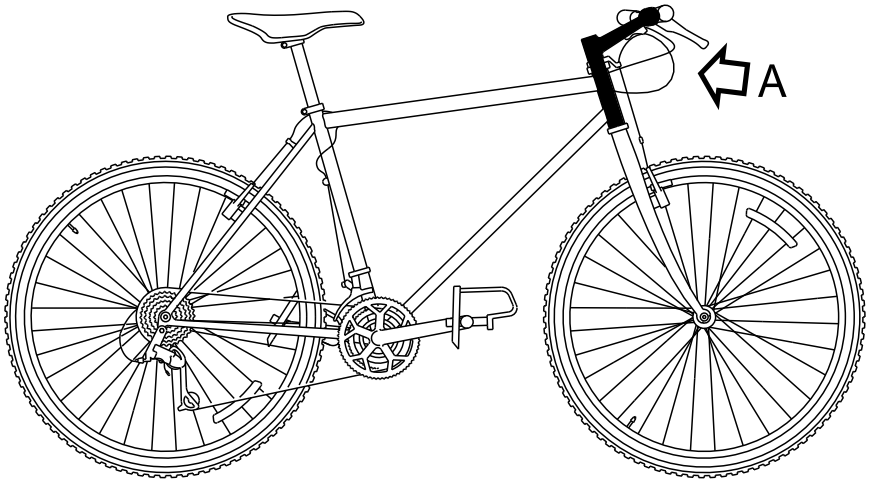
2 Install the stem.

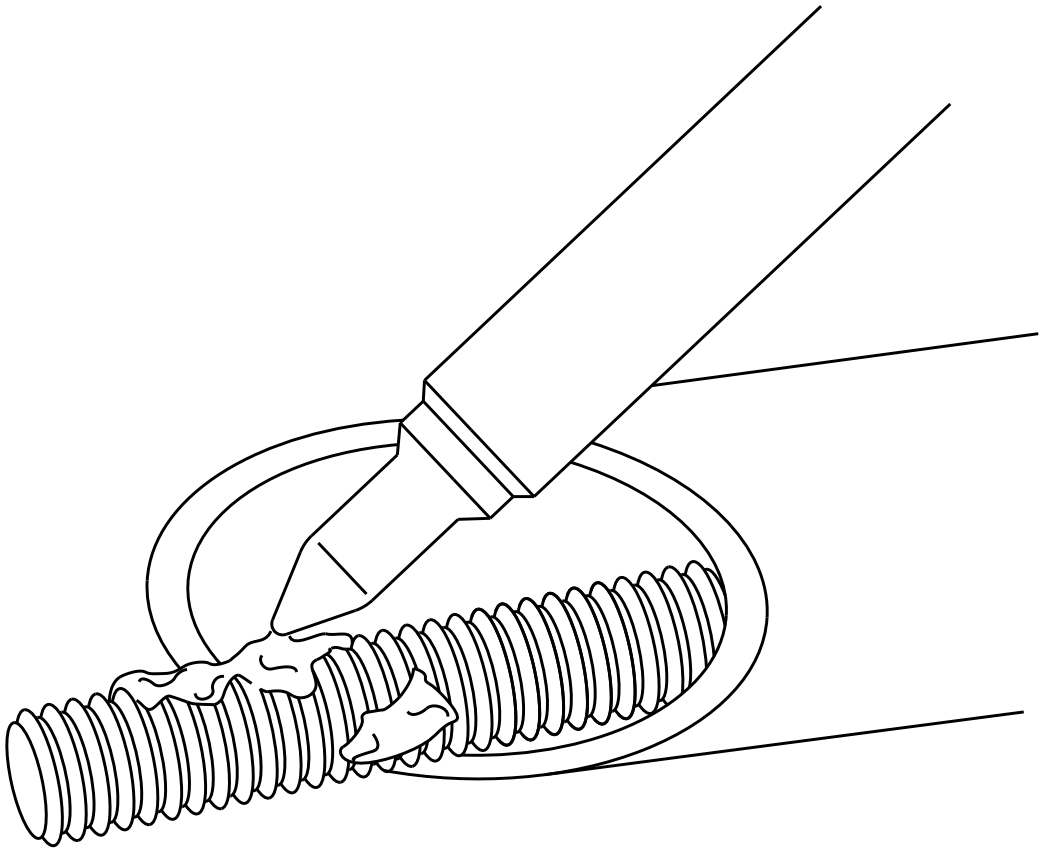
2.1 Use a General lubricant and lubricate:

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

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Fig 1 Lubricate the thread

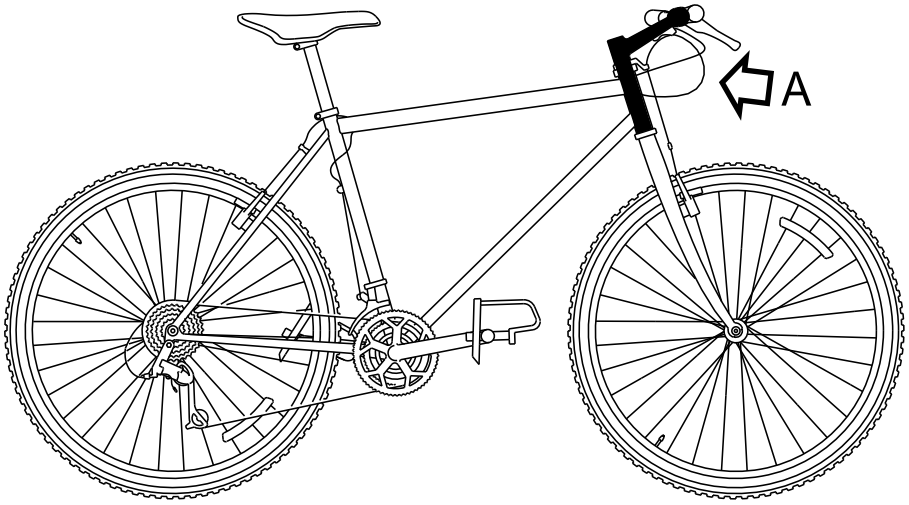
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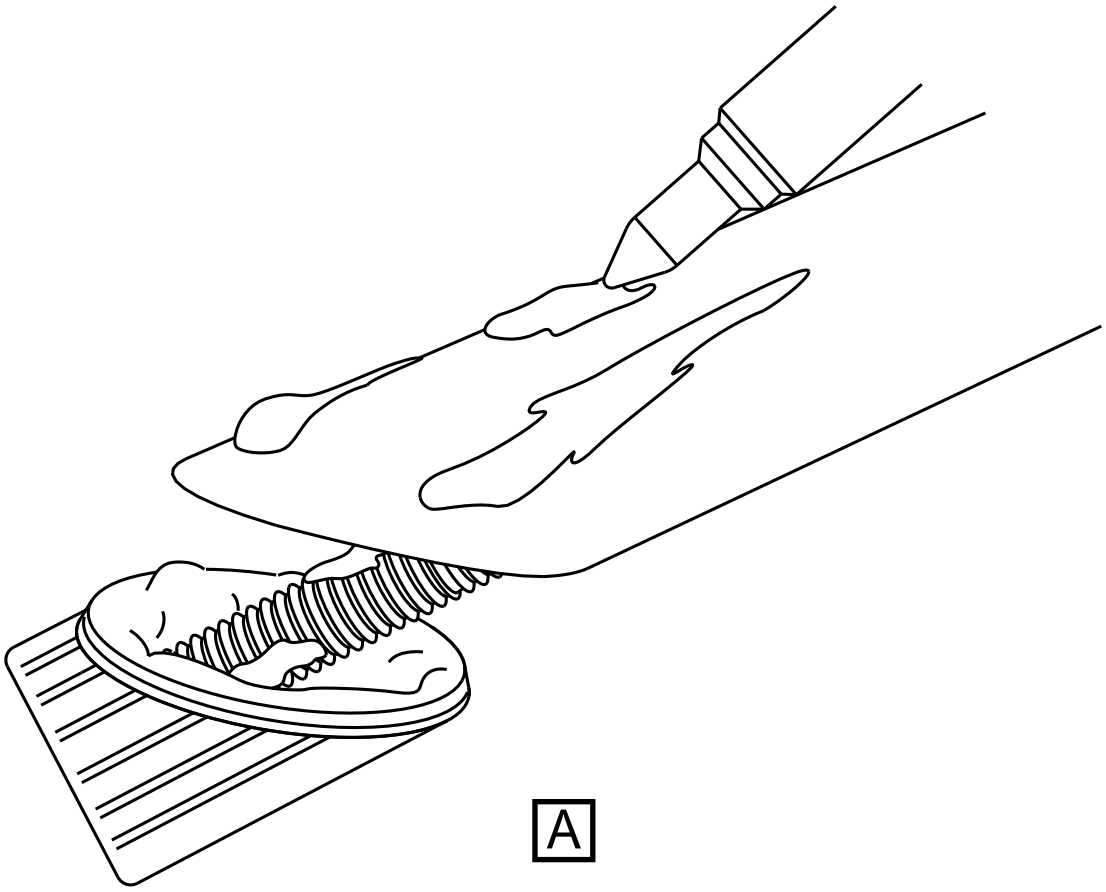
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2.2 Install the Stem in the steerer tube.

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Fig 2 Tighten the bolt

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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.	

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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/Alternate name	Identification/Reference	Quantity	Remark
Set of Allen wrenches	Part No. KZ666/BSK-TLST-001-13	1 EA	
Work stand	Part No. KZ555/Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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.

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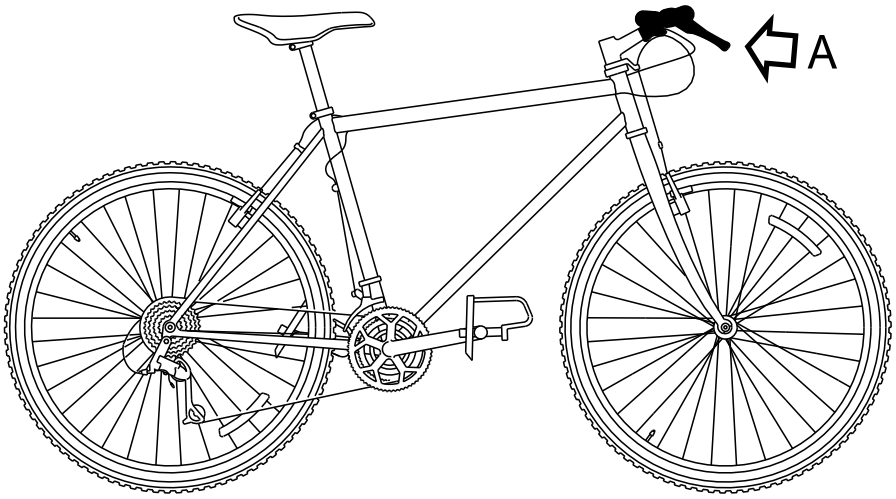
1.2 Turn the grip forwards and rearwards to loosen it and then pull it off the end of the handlebar.

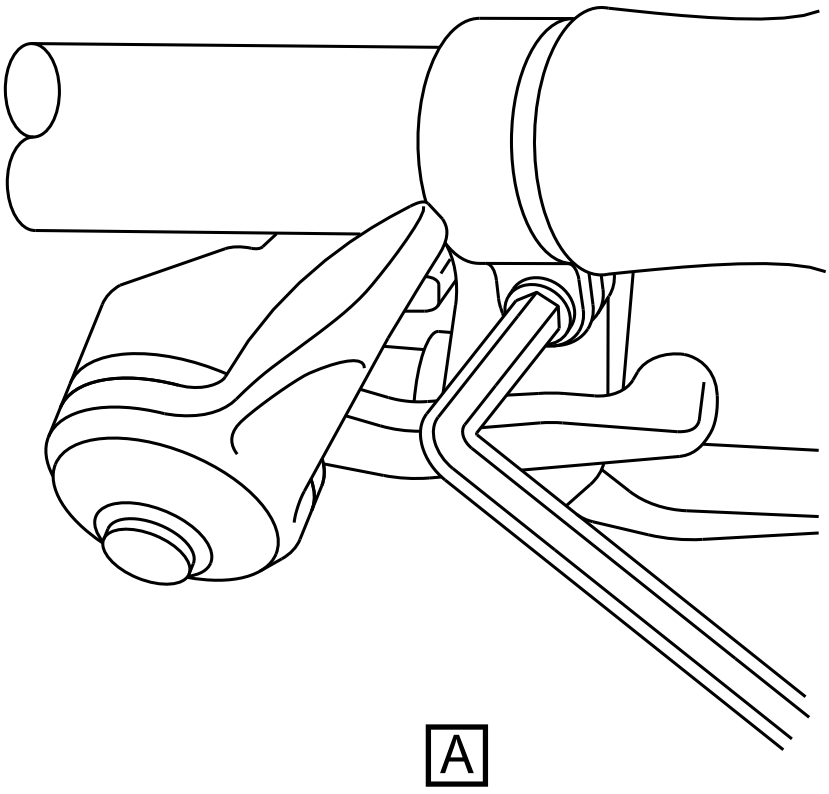
2 Remove the brake and the shift levers from the handlebars

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

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Fig 1 Loosen the clamp screw with the Allen wrench

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2.2 Remove the lever and the mount from the handlebar.

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

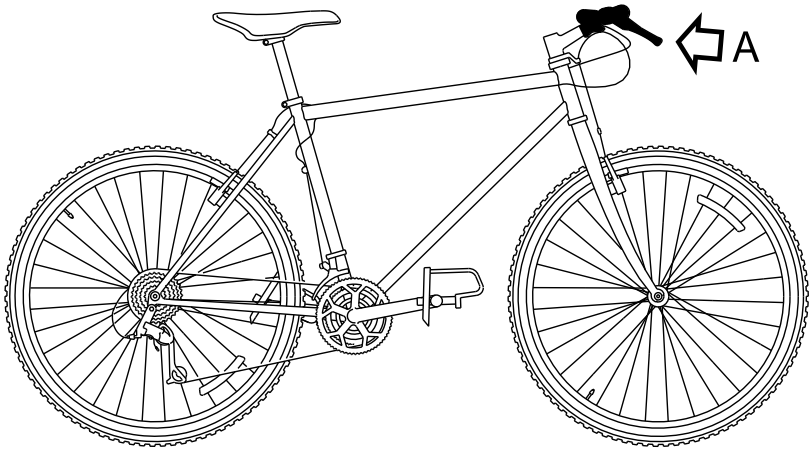
3 Remove the handlebar

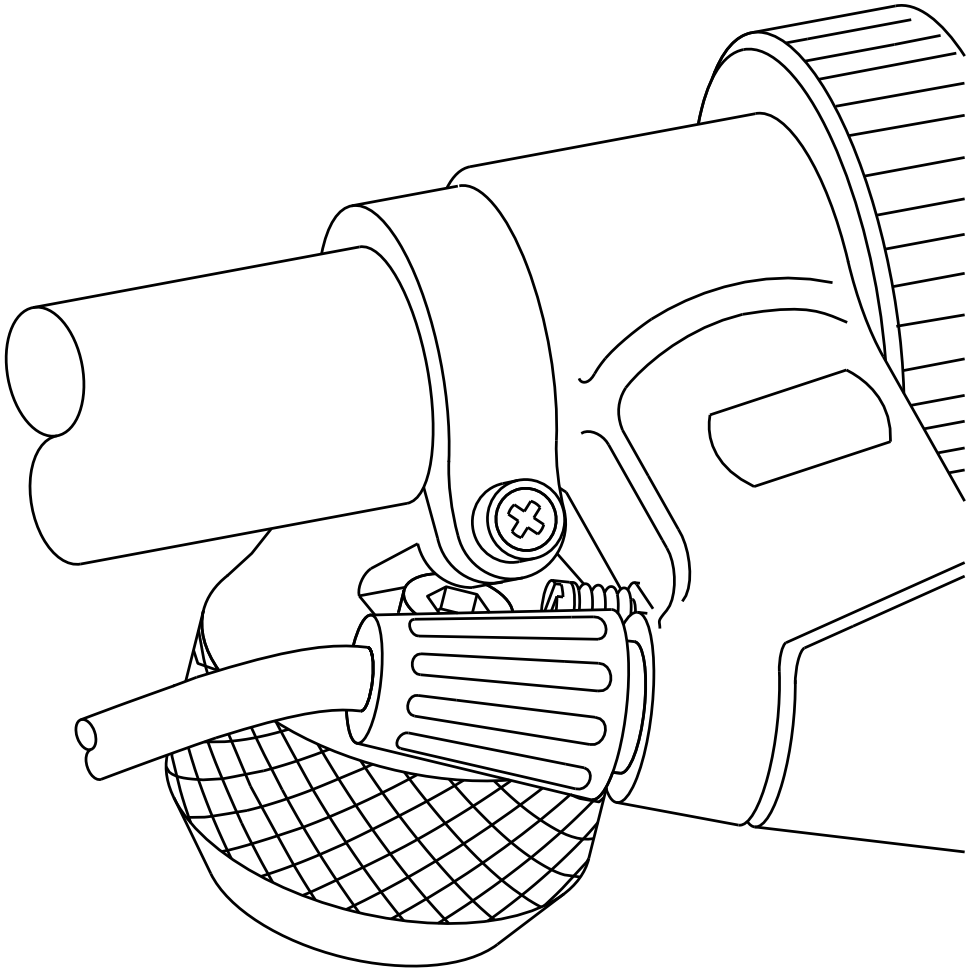
This is a dummy paragraph, inserted only for Svante's strang requests.

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

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Requirements after job completion

Required conditions

Table 7 Required conditions

Action/Condition	Data module/Technical publication
None	

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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

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Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Set of Allen wrenches	Part No. KZ666/BSK-TLST-001-13	1 EA	
Extra firm hold hairspray	Part No. HS111/HSP-D001	1 EA	
Work stand	Part No. KZ555/Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
Handlebar	Part No. KZ555/Hd-001	1 EA	
Brake lever	Part No. KT444/BR-LVRS-001	1 EA	
Shifter lever	Part No. KZ555/Sl-001	1 EA	
Brake lever mount	Part No. KT444/BR-LVRS-001-01	1 EA	
Handlebar grips	Part No. KZ555/Hd-001-01	1 EA	
Handlebar plug	Part No. KZ555/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.

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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	

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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.

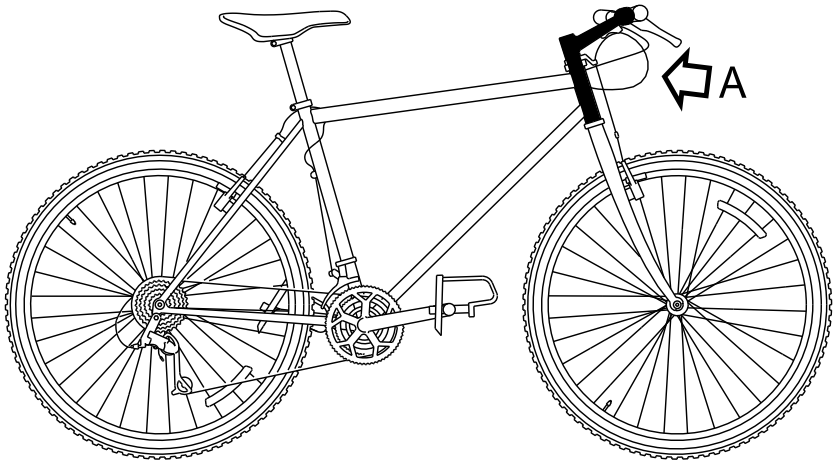
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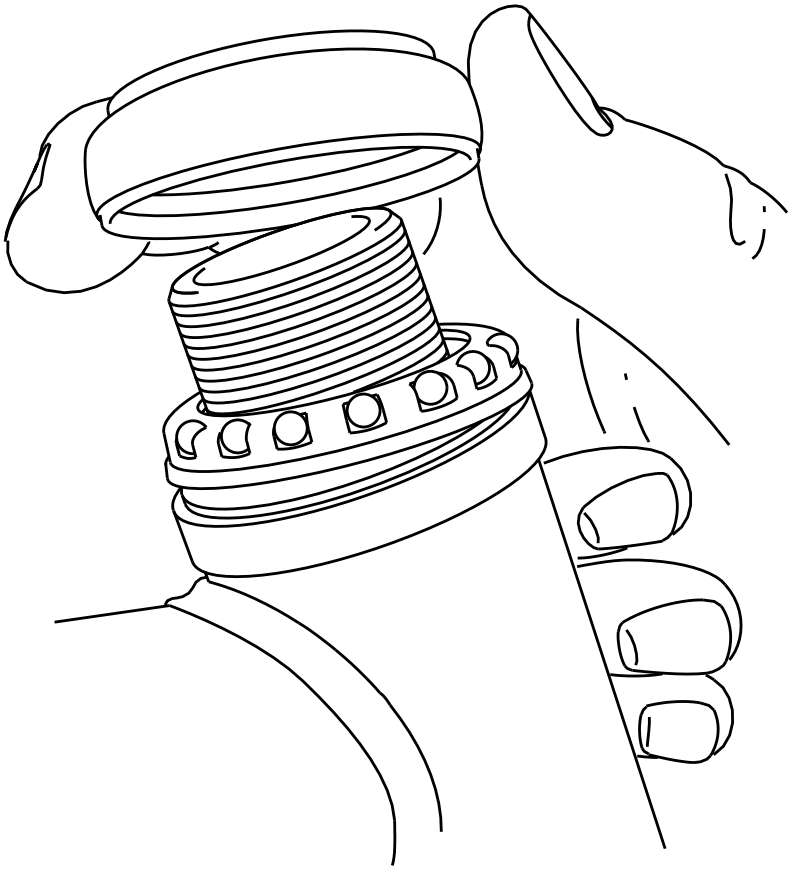
The fourth remaining bearing race is part of a nut that installs on the threaded top end of the fork. This is done after you install it in the head tube. It is sometimes necessary for some headsets to have more thread at the top of the head tube. If the fork is too long, the spacer rings can be installed. 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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6 Spares 2
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1 Lift the upper bearing cup 3

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	

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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/Alternate name	Identification/Reference	Quantity	Remark
Work stand	Part No. Bikey/Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Safety conditions

Note 1

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

Procedure

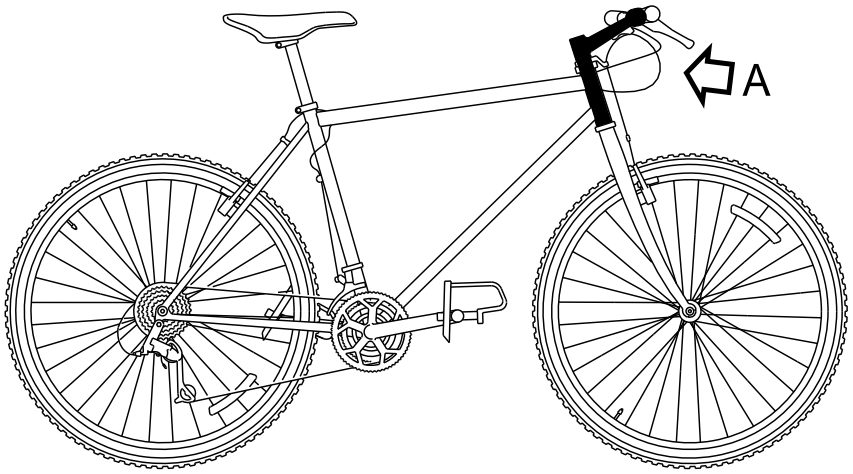
1 Remove the stem (refer to S1000DBIKE-AAA-DA2-10-00-00AA-520A-A).

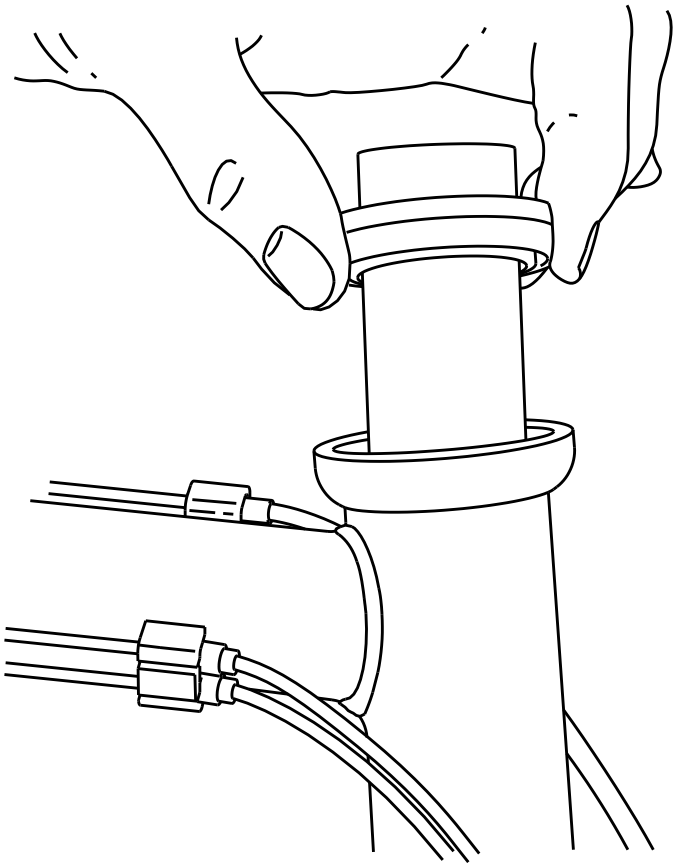
2 Remove:

- 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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Fig 1 Lift the upper bearing cup

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Requirements after job completion

Required conditions

Table 7 Required conditions

Action/Condition	Data module/Technical publication
None	

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Headset

Install procedures

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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

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Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Work stand	Part No. Stand/Stand-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
Frame fork	Part No. KZ555/St-001-02	1 EA	
Upper bearing cup	Part No. KZ555/St-001-03	1 EA	
Brake cable hangar	Part No. KT444/BR-LVRS-002	1 EA	
Dust seal	Part No. KZ555/St-001-04	1 EA	
Conical expansion washer	Part No. KZ555/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).

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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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Table 1 References

Data module/Technical publication	Title
None	

Description

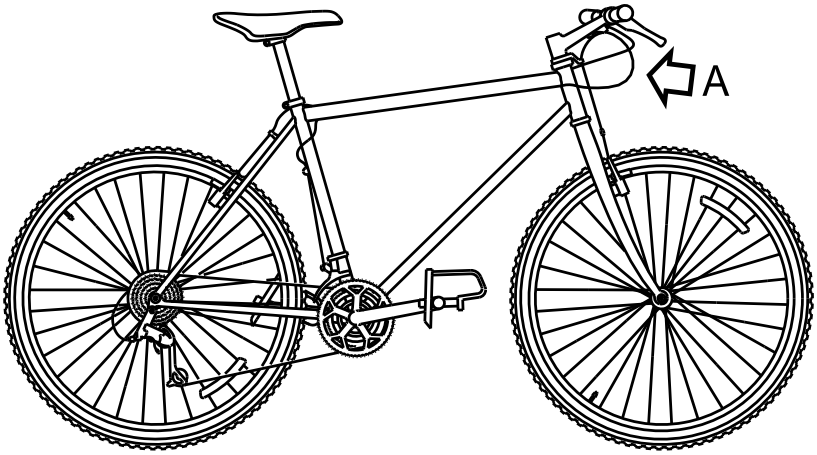
1 The bicycle frame

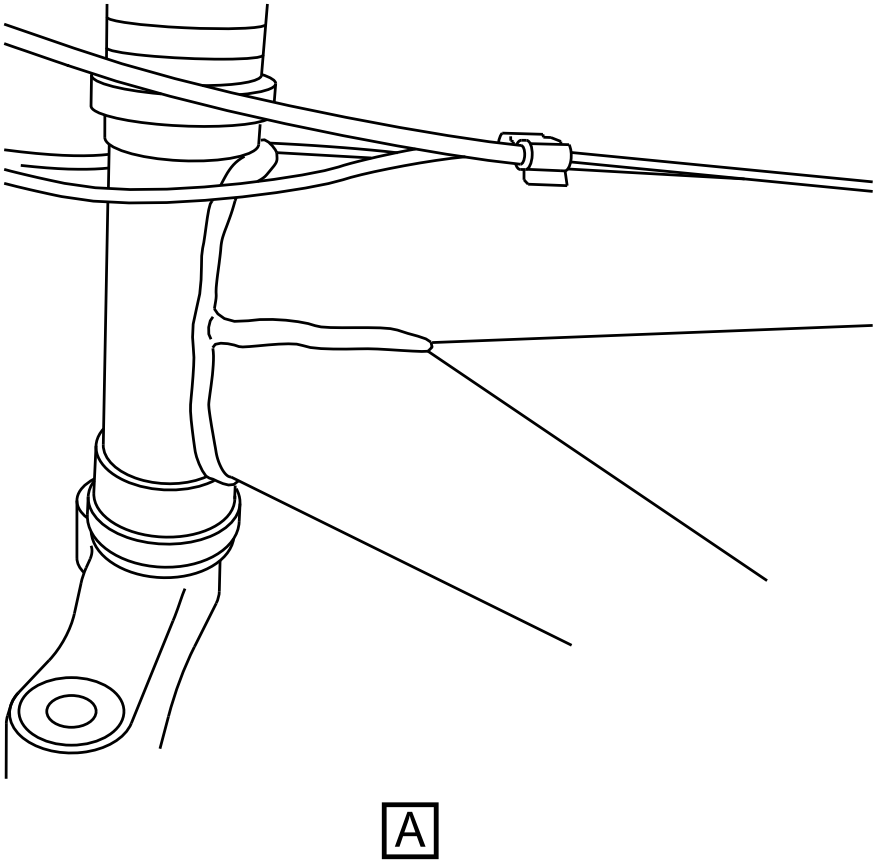
The frame is the skeleton, the primary part of your bicycle. Its structure makes the bicycle resistant to large forces.

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

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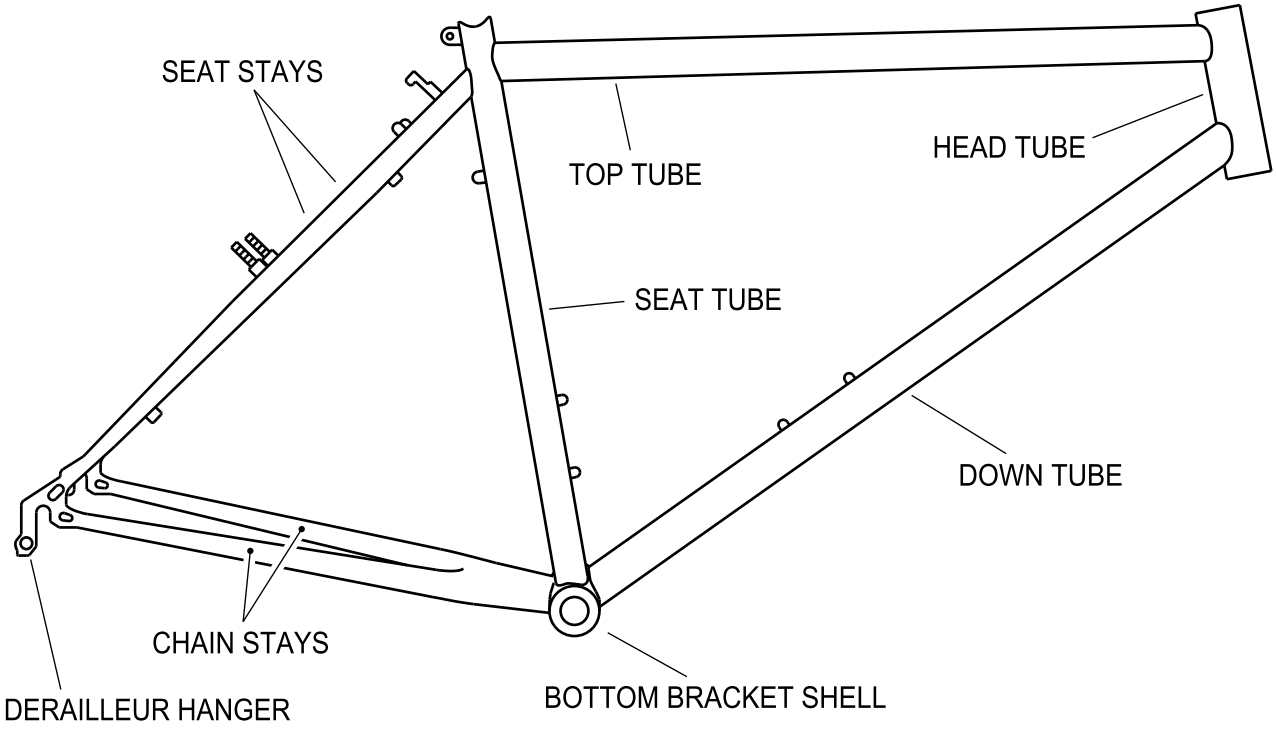
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Fig 1 Welded frame joints

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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

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

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Horn

Remove and install a new item

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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				

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Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	
8mm Allen wrench	Part No. KZ666/BSK-TLST-001-08	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
Horn	Part No. KZ444/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.

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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

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Drivetrain

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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/Alternate name	Identification/Reference	Quantity	Remark
Clean dry cloth	Part No. KZ666/BSK-TLST-001-12	1 EA	
Floor covering	Part No. KK999/PPP-001	1 pack	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
Wet lube	Part No. KZ222/LL-007	1 dl	
Dry lube	Part No. KZ222/LL-006	1 dl	

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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.

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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:

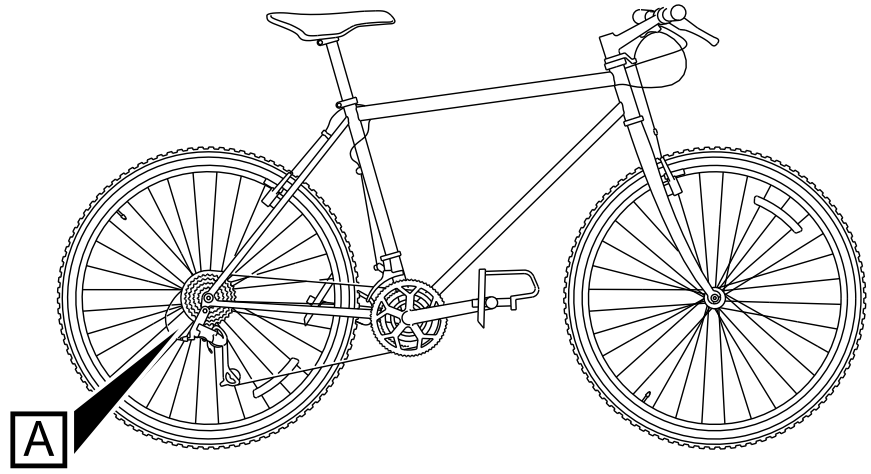
- derailleur pivots (refer to Fig 1)
- derailleur tension (refer to Fig 2)
- brake lever pivots (refer to Fig 3)

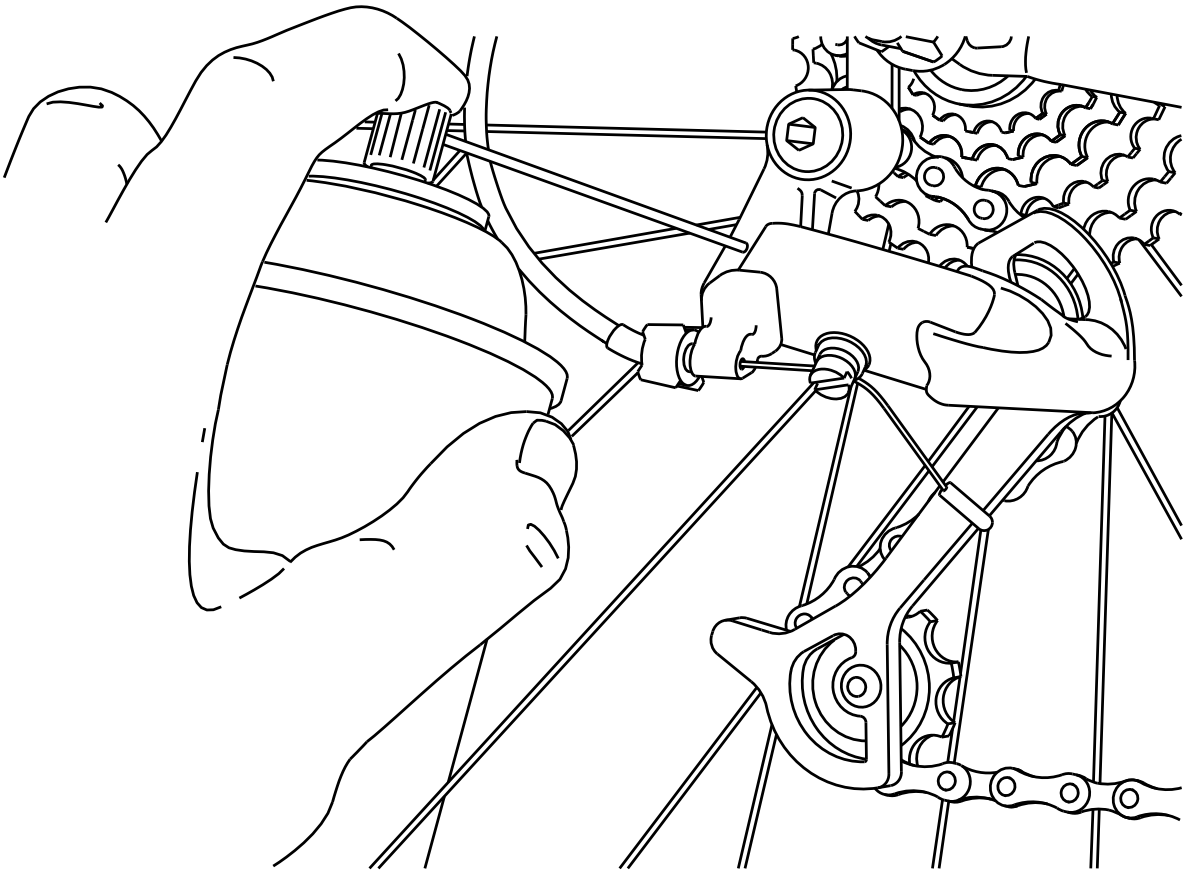
These brake lever pivots include:

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

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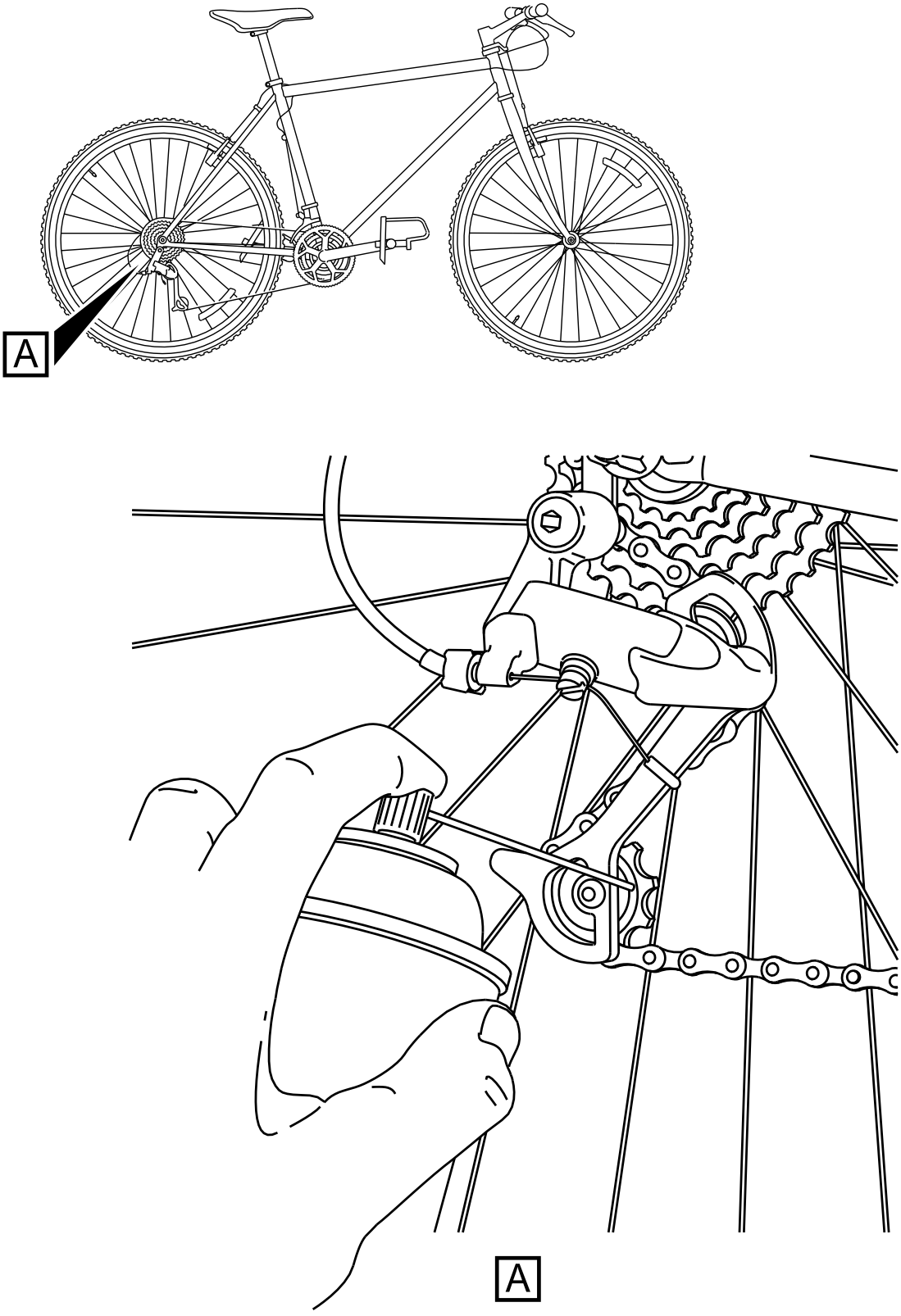
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Fig 1 Derailleur pivots

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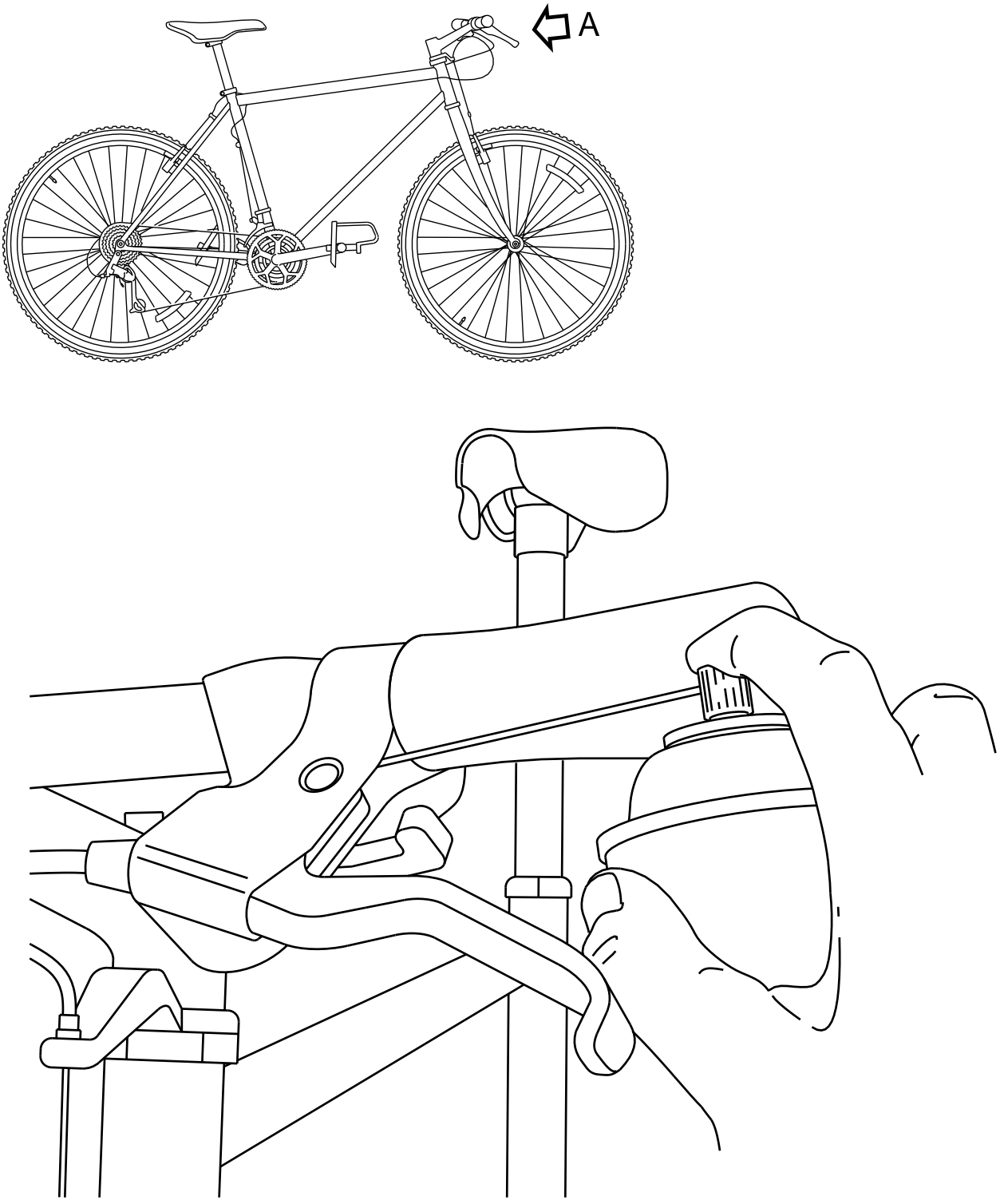
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Fig 2 Derailleur tension

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Fig 3 Brake lever pivots

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2 Lubricate the chain.

2.1 Make sure the chain is clean and dry.

2.2 Put the on the floor below the chain.

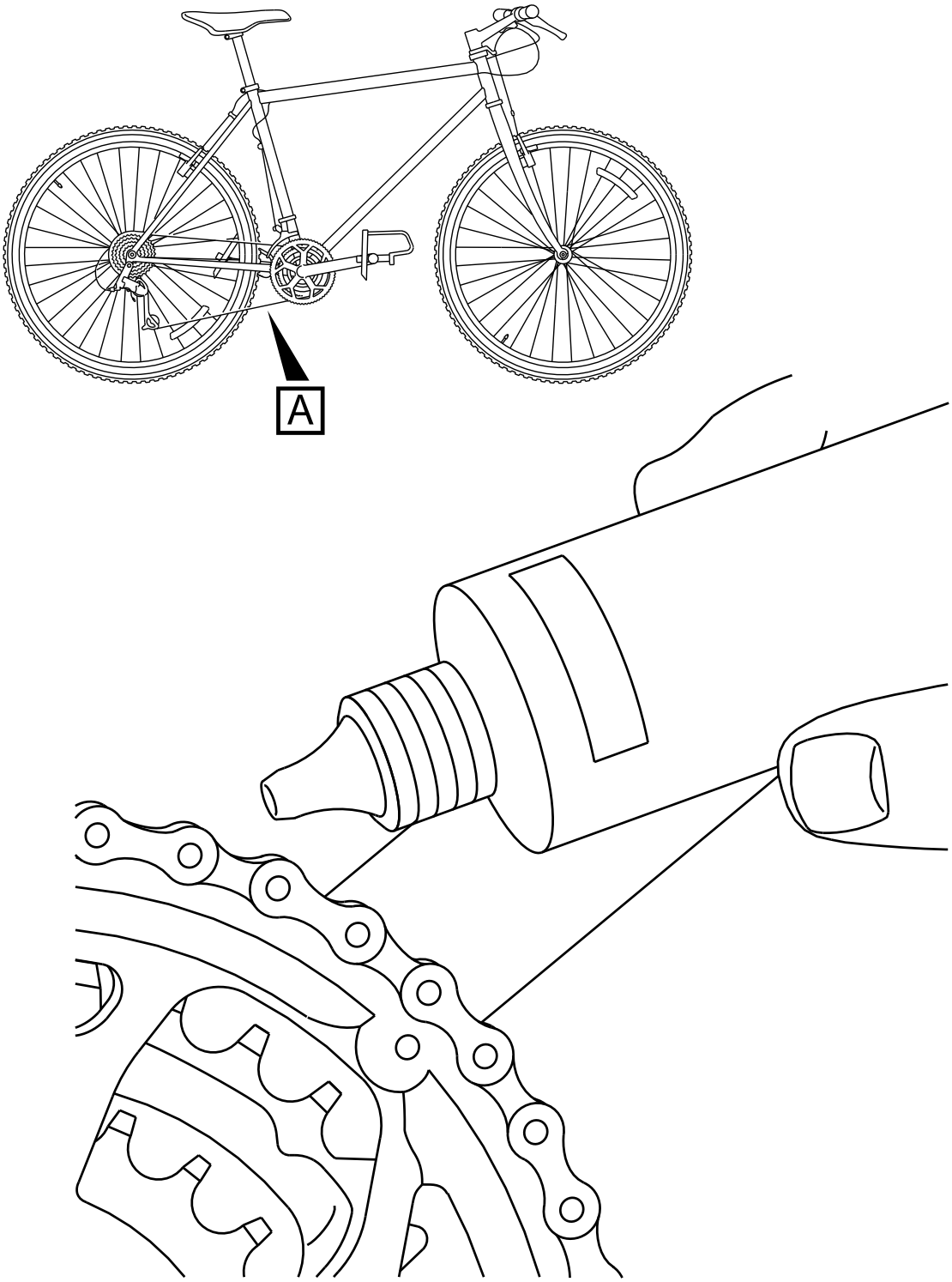
2.3 Use a Dry lube for dry conditions.

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

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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/Alternate name	Identification/Reference	Quantity	Remark
Stiff bristle brush	Part No. KZ666/BSK-TLST-001-02	1 EA	
Chain cleaning fluid	Part No. KZ222/LL-003	As required	

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Table 3 Support equipment (Continued)

Name/Alternate name	Identification/Reference	Quantity	Remark
Chain cleaning tool	Part No. KZ666/BSK-TLST-001-03	1 EA	

Consumables, materials and expendables

Table 4 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
Floor covering	Part No. KK999/PPP-001	1 pack	
General lubricant	Part No. KZ222/LL-001	As required	

Spares

Table 5 Spares

Name/Alternate name	Identification/Reference	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.

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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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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

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Remarks

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

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Gears

Description of how it is made

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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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1.1 Front derailleur 1
1.2 Rear derailleur 3

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1 Front derailleur 2
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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.

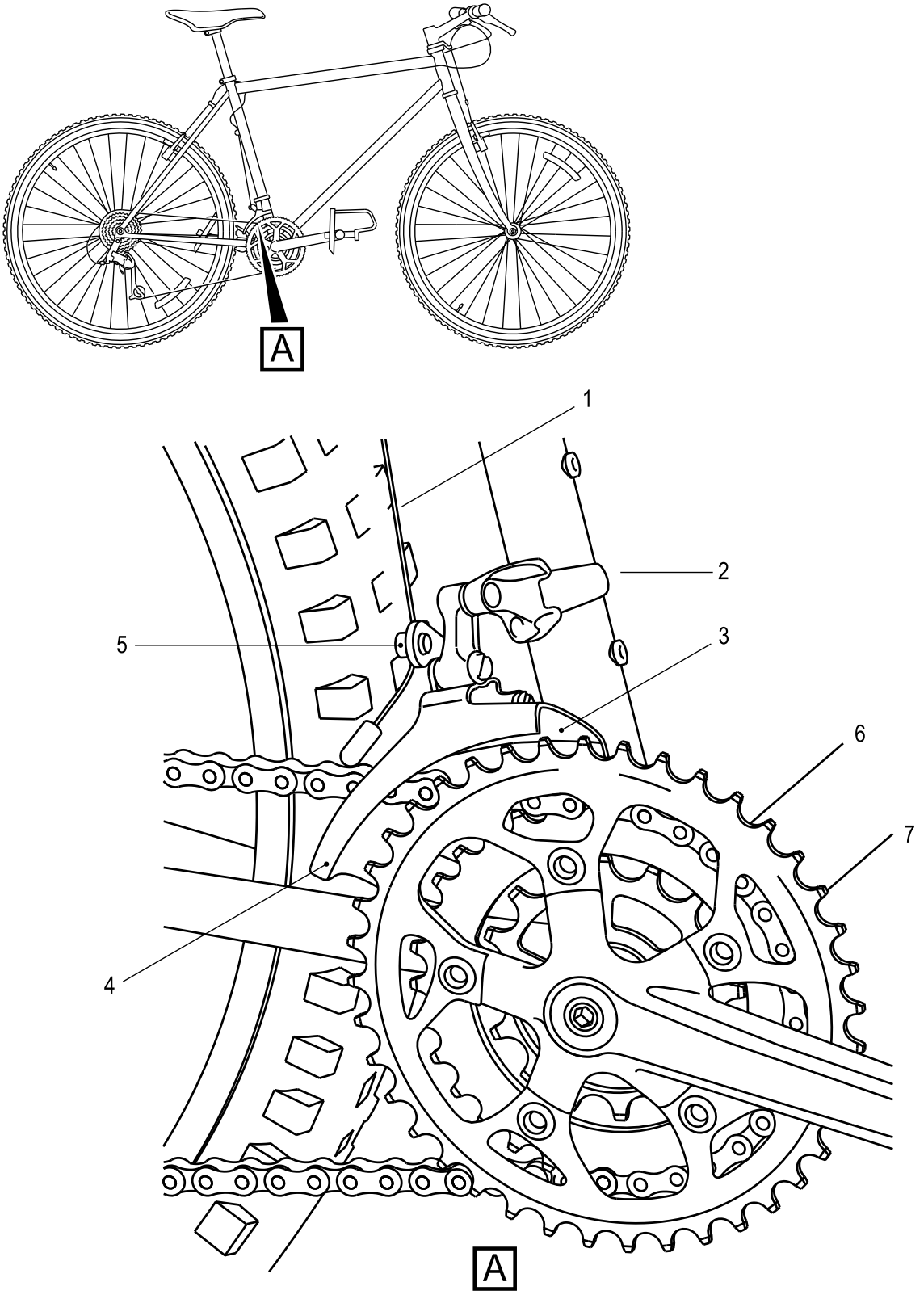
1.1 Front derailleur

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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ICN-S1000DBIKE-AAA-DA51000-0-U8025-00519-A-04-1

Fig 1 Front derailleur

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

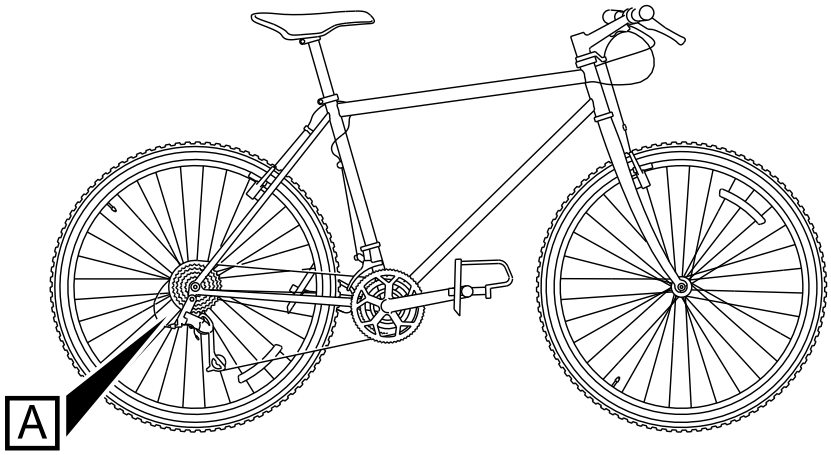
The shift cable is connected between the shifters on the handle bars and the cable clamp bolt on the front derailleur. This operates the derailleur. On the sprockets there is an inner and outer cage. The clamp attaches the cage.

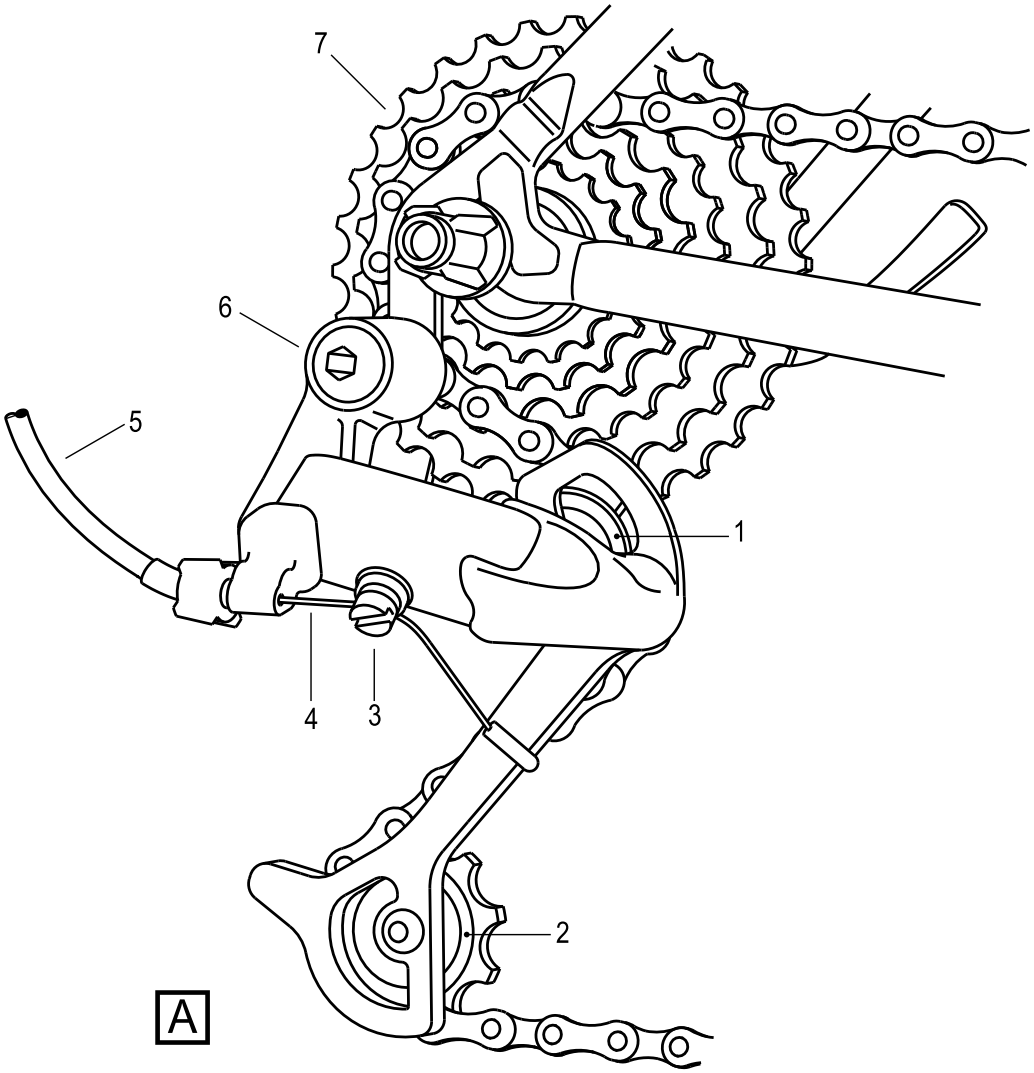
1.2 Rear derailleur

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

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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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4 Support equipment 2
5 Consumables, materials and expendables 2
6 Spares 2
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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

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Required persons

Table 3 Required persons

Persons	Category	Skill level	Trade/Trade code	Estimated time
Man B	Supervisor	Advanced	Bicycle mechanic	0,75 h
Man A	Basic user		Operator	0,25 h

Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
Degreasing agent	Part No. KZ222/LL-004	As required	
General grease	Part No. KZ222/LL-005	As required	

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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.

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1.3

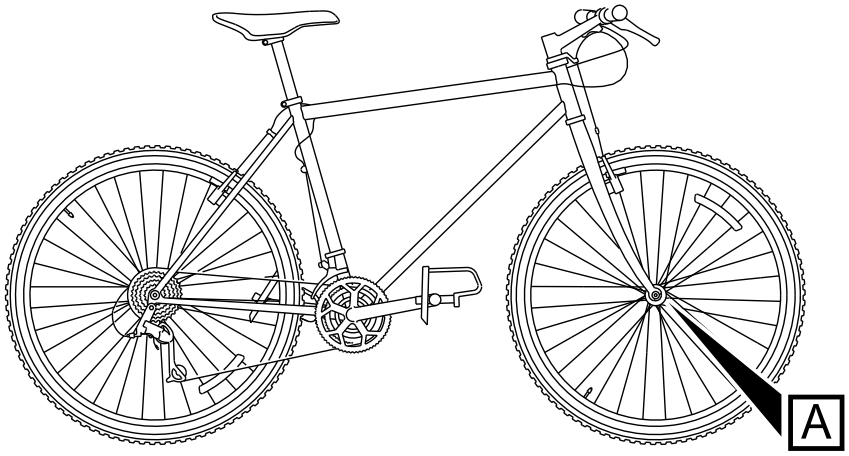
CAUTION

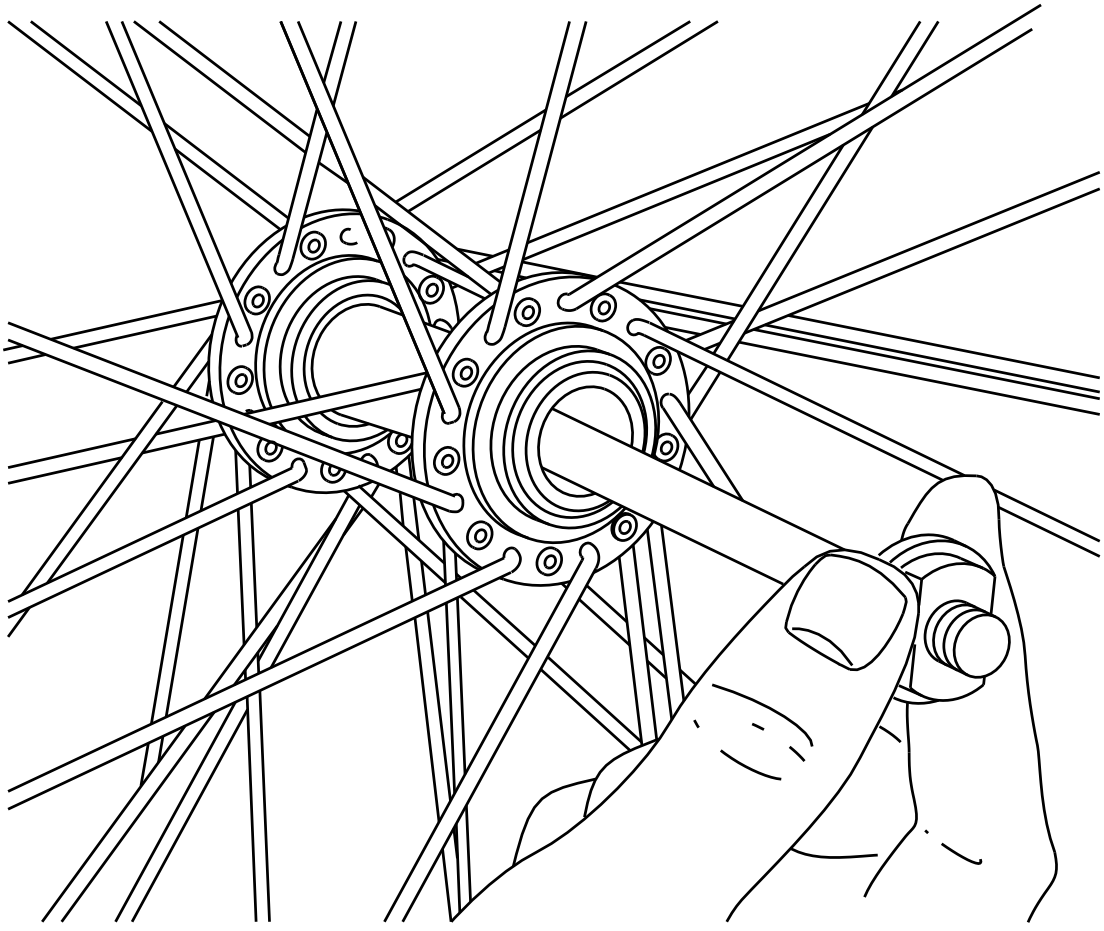
Make sure you do not lose the bearings from the hub. Be prepared to catch the bearings if they fall out. Missing bearings can cause damage to the hub.

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

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A

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Fig 1 Removing the axle

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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	

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Shifters

Description of how it is made

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4 Loosen the shifter clamp bolt 7

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Table 1 References

Data module/Technical publication	Title
None	

Description

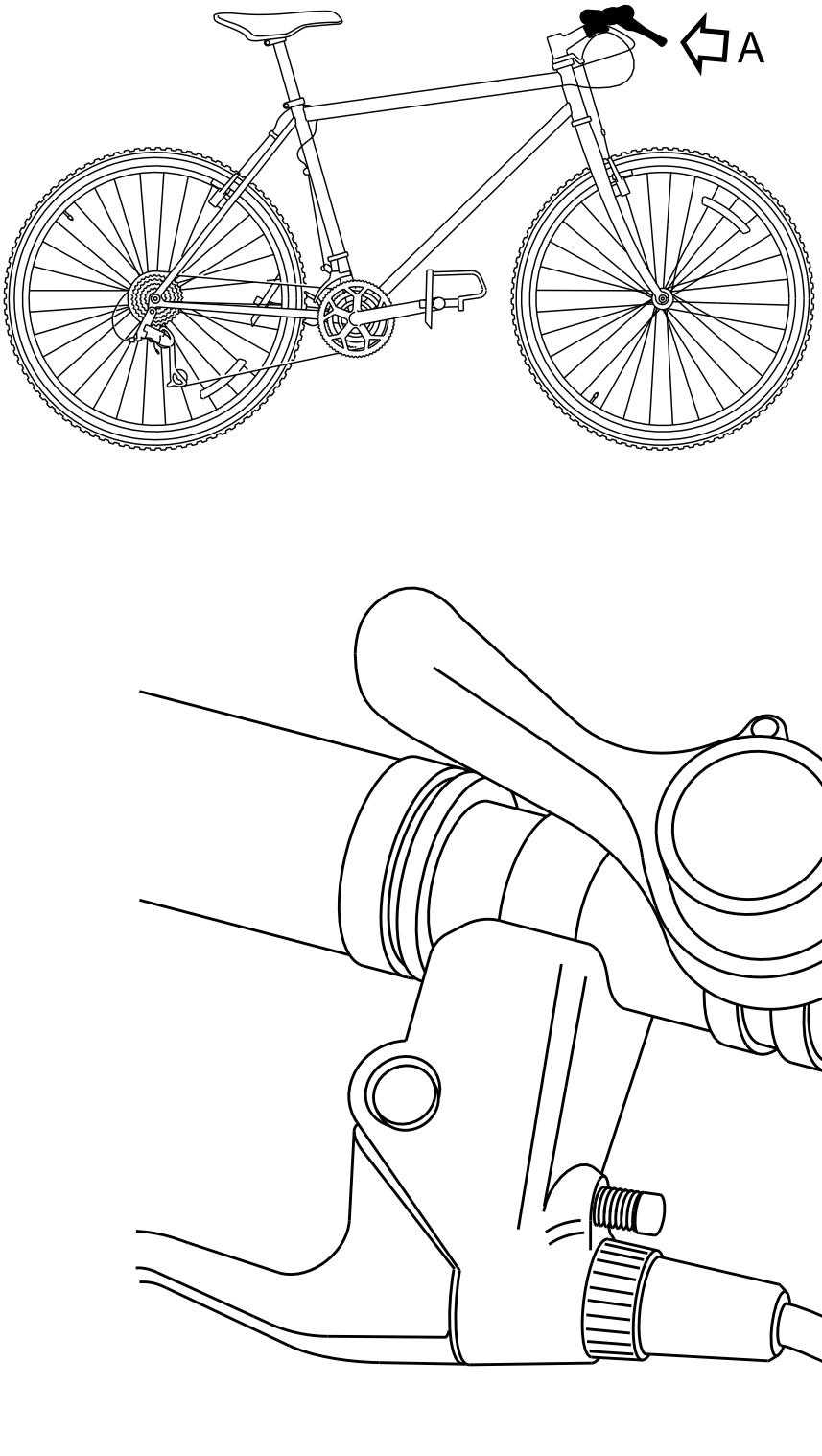
1 Shifters

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

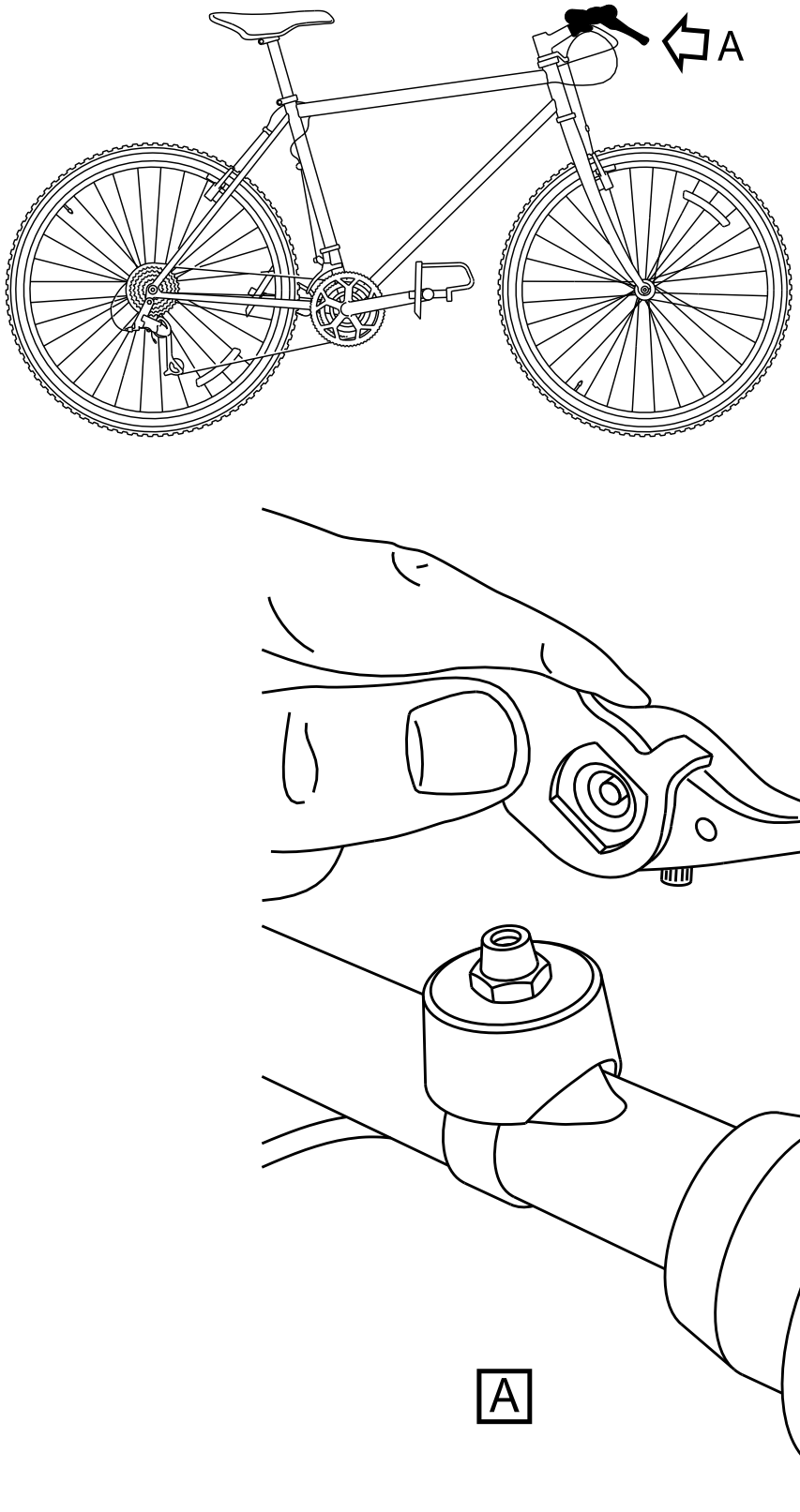
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2 How a thumb shifter is made up

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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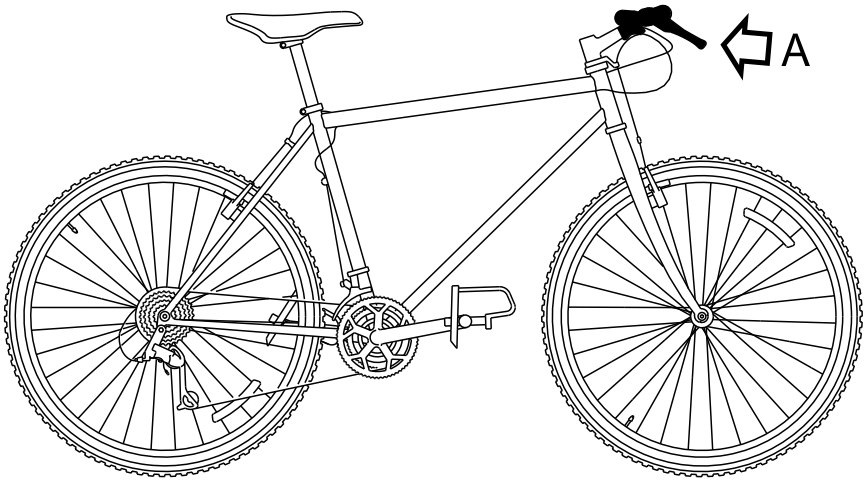


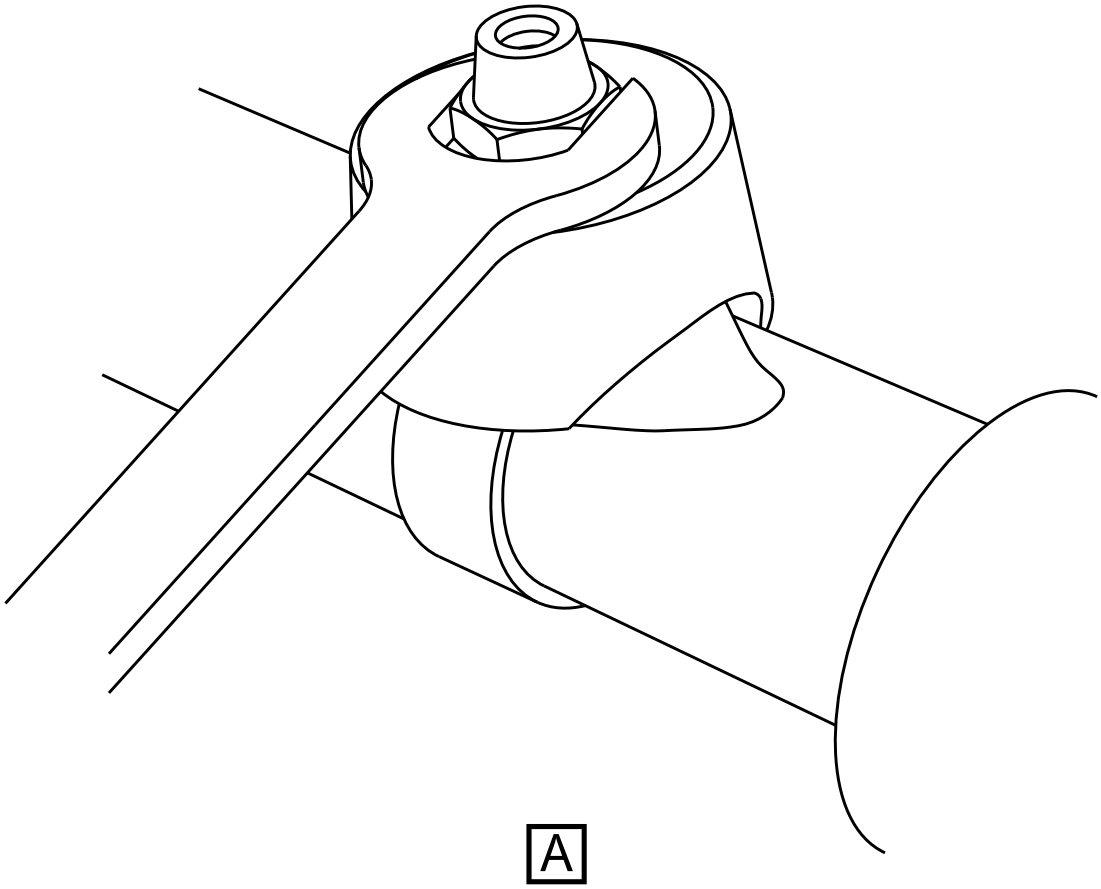
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Fig 2 Unscrew wingnut

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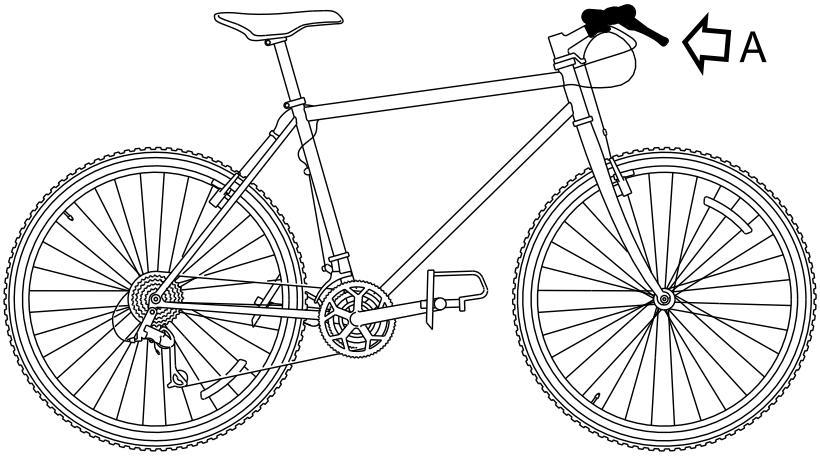
Fig 3 Loosen the nut

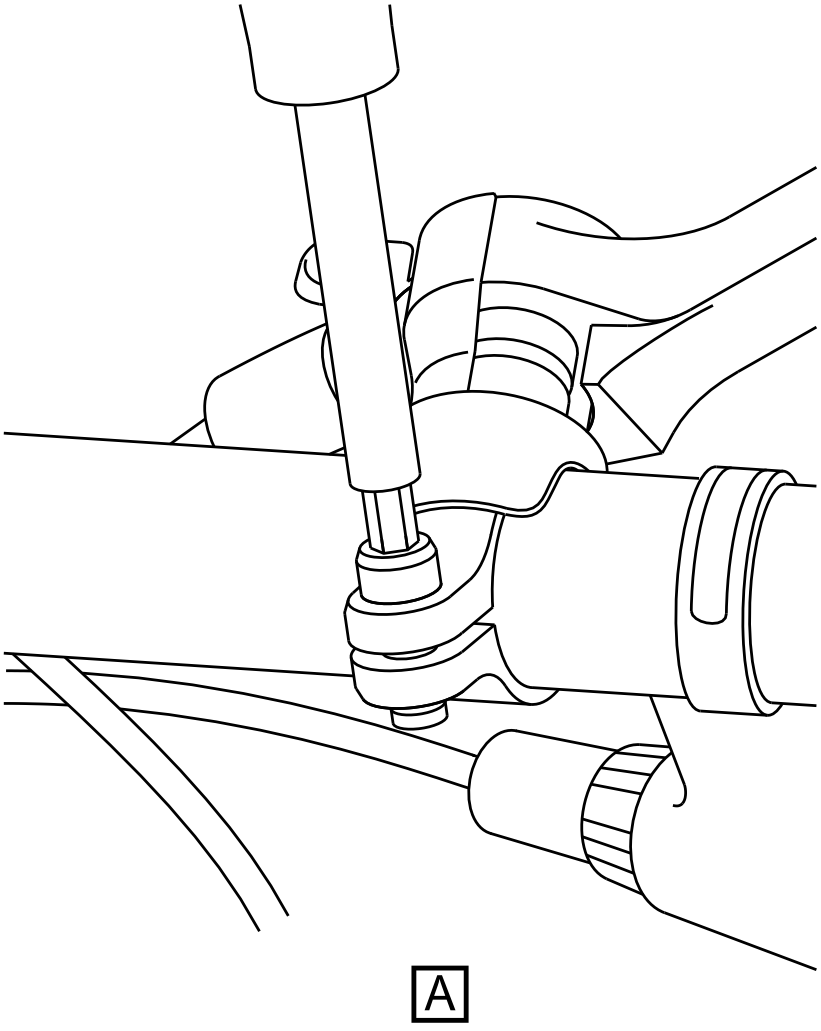
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On modern models of this shifter, there is a clamp bolt that holds the shifter in its position (refer to Fig 4). The user can loosen the clamp bolt with an applicable tool. This lets the shifter release the handlebar.

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Fig 4 Loosen the shifter clamp bolt

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Section 2

Electrical Lighting System

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Wiring data

Field description

This is a "wrngflds" Data Module

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

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Electrical system

Description of how it is made and its function

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Table 1 References

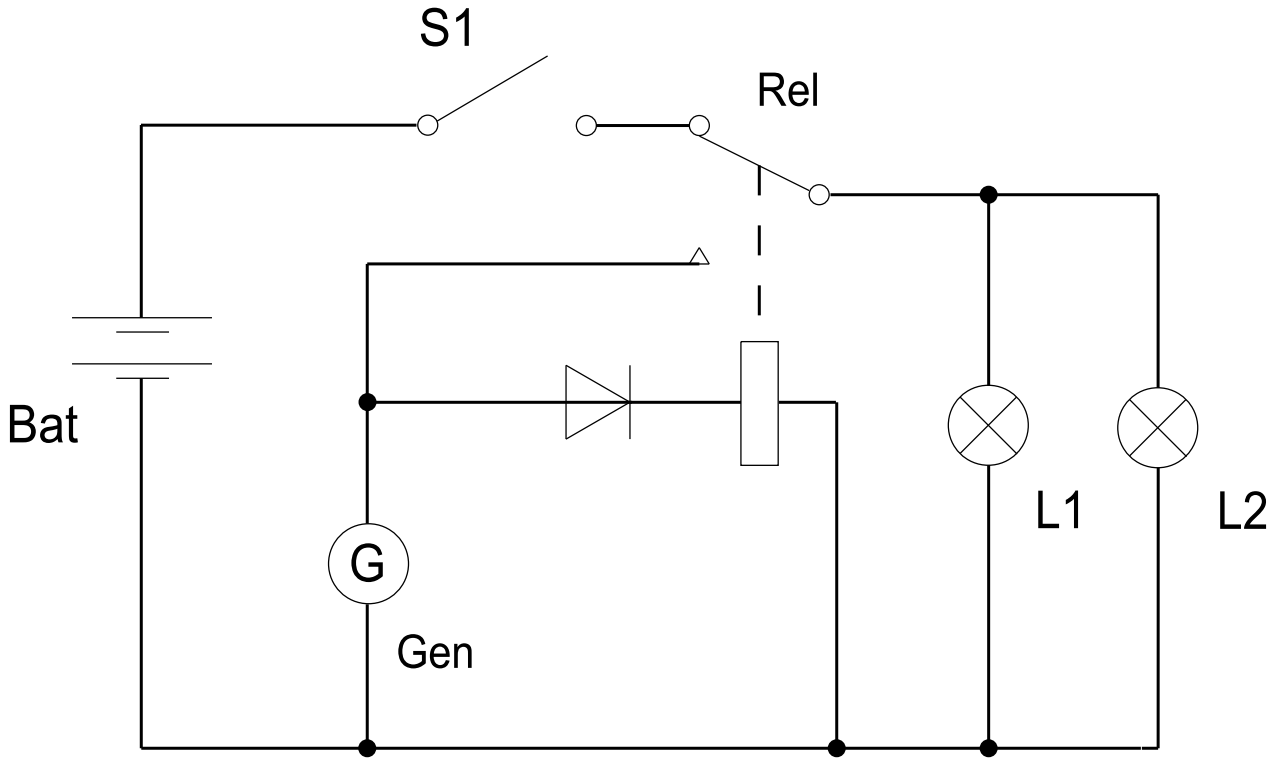
Data module/Technical publication	Title
None	

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

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Wiring

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Table 1 References

Data module/Technical publication	Title
None	

Wiring data

Ident	CLC	Qty	Information	Installation	Applicability
L1 PN: Front light	16		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Handle bars	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
L2 PN: Rear light	16		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Seat post	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Batt PN: Battery	16		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Gen PN: Generator	16		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Steering tube	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Rel PN: Relay	10		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
VV1 PN: Distribution module	07		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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(Continued)

Ident	CLC	Qty	Information	Installation	Applicability
S1 PN: Switch	15		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Handle bars	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
C_Batt PN: Connector	3		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
C_Bike PN: Receptacle	3		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Diode PN: Diode	18		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Frame	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Sensor PN: Speed sensor	16		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Steering tube	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
T01 PN: Tachometer	16		RPC: CAGE: U8025 Name: UK MoD	• Locations: - Handle bars	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Data module/Technical publication	Title
None	

Wiring data

Ident	Connection		Information	Applicability
	From	To		
FL1AA State: Active	FIN: L1 Contact: + Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000001 Potential conn. order: 000 NA code: 01	FIN: VV1 Contact: 1 + Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010101 Potential conn. order: 000 NA code: 03	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Lamp1 Twists: - Lamp1 Twisting type: 1 Length: 1000 Wire color: red U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Wiring data (Continued)

Ident	Connection		Information	Applicability
	From	To		
FL2AA State: Active	FIN: L1 Contact: - Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000002 Potential conn. order: 000 NA code: 01	FIN: VV1 Contact: 1 - Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010102 Potential conn. order: 000 NA code: 03	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Lamp1 Twists: - Lamp1 Twisting type: 1 Length: 1000 Wire color: blue U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
NC1VI State: Not active	FIN: VV1 Contact: 4 + Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010101 Potential conn. order: 003 NA code: 03			Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
RL1AA State: Active	FIN: L2 Contact: + Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000001 Potential conn. order: 000 NA code: 01	FIN: VV1 Contact: 2 + Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010101 Potential conn. order: 001 NA code: 03	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Lamp2 Twists: - Lamp2 Twisting type: 1 Length: 1500 Wire color: red U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
RL2AA State: Active	FIN: L2 Contact: - Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000002 Potential conn. order: 000 NA code: 01	FIN: VV1 Contact: 2 - Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010102 Potential conn. order: 001 NA code: 03	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Lamp2 Twists: - Lamp2 Twisting type: 1 Length: 1500 Wire color: blue U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Wiring data (Continued)

Ident	Connection		Information	Applicability
	From	To		
GE2AA State: Active	FIN: Gen Contact: GND Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000002 Potential conn. order: 001 NA code: 01	FIN: VV1 Contact: 3 - Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010102 Potential conn. order: 002 NA code: 03	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Length: 500 Wire color: U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
BT2AA State: Active	FIN: Batt Contact: - Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000002 Potential conn. order: 000 NA code: 01	FIN: C_Batt Contact: - Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000002 Potential conn. order: 000 NA code: 02	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Batt_01 Twists: - Batt Twisting type: 1 Length: 400 Wire color: black U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
GE1AA State: Active	FIN: Gen Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000001 Potential conn. order: 001 NA code: 01	FIN: Rel Contact: 2 Function: Generator mode Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010202 Potential conn. order: 000 NA code: 04	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Length: 500 Wire color: U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
GE3AA State: Active	FIN: Gen Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000001 Potential conn. order: 002 NA code: 01	FIN: Diode Contact: A Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010101 Potential conn. order: 000 NA code: 04	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Length: 500 Wire color: U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Wiring data (Continued)

Ident	Connection		Information	Applicability
	From	To		
BT1AA State: Active	FIN: Batt Contact: + Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000001 Potential conn. order: 000 NA code: 01	FIN: C_Batt Contact: + Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000001 Potential conn. order: 000 NA code: 02	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Batt_01 Twists: - Batt Twisting type: 1 Length: 400 Wire color: red U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
BA1AA State: Active	FIN: C_Bike Contact: + Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000001 Potential conn. order: 000 NA code: 02	FIN: S1 Contact: Batt Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010101 Potential conn. order: 000 NA code: 04	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Length: 1200 Wire color: U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
BA1AB State: Active	FIN: S1 Contact: ON Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010101 Potential conn. order: 001 NA code: 04	FIN: Rel Contact: 3 Function: Battery mode Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010201 Potential conn. order: 001 NA code: 04	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Length: 1000 Wire color: U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
BA2AA State: Active	FIN: C_Bike Contact: - Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000002 Potential conn. order: 000 NA code: 02	FIN: VV1 Contact: 4 - Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010102 Potential conn. order: 003 NA code: 03	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Length: 200 Wire color: U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Wiring data (Continued)

Ident	Connection		Information	Applicability
	From	To		
LL1AA State: Active	FIN: Rel Contact: 1 Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010201 Potential conn. order: 000 NA code: 04	FIN: VV1 Contact: 3 + Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010101 Potential conn. order: 002 NA code: 03	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Length: 500 Wire color: U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
GE4AA State: Active	FIN: Gen Contact: GND Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 000002 Potential conn. order: 002 NA code: 01	FIN: Rel Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010101 Potential conn. order: 000 NA code: 04	Wire code: Wire type: AP Wire gauges: - 010 (proj) Harn. id: Length: 500 Wire color: U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
GE5AA State: Logconn	FIN: Diode Contact: K Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010101 Potential conn. order: 001 NA code: 04	FIN: Rel Wire conn. code: Screen order: 0000 Spec. conn.: 000 Electrical potential: Contact order: 010101 Potential conn. order: 001 NA code: 04		Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
T001 State: Active	FIN: T01 Contact: 1 Wire conn. code: Screen order: 0002 Spec. conn.: 000 Electrical potential: Contact order: 000001 Potential conn. order: 000 NA code: 01 Screens: - 00 01 00	FIN: Sensor Contact: A Wire conn. code: Screen order: 0002 Spec. conn.: 000 Electrical potential: Contact order: 000001 Potential conn. order: 000 NA code: 01 Screens: - 00 01 00	Wire code: Wire type: XY Wire gauges: - 010 (proj) Harn. id: Tacho Screens: - SCT1 Twists: - Tacho Twisting type: 1 Length: 1200 Wire color: yellow U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Wiring data (Continued)

Ident	Connection		Information	Applicability
	From	To		
T002 State: Active	FIN: T01 Contact: 2 Wire conn. code: Screen order: 0003 Spec. conn.: 000 Electrical potential: Contact order: 000002 Potential conn. order: 000 NA code: 01 Screens: - 00 01 00	FIN: Sensor Contact: B Wire conn. code: Screen order: 0003 Spec. conn.: 000 Electrical potential: Contact order: 000002 Potential conn. order: 000 NA code: 01 Screens: - 00 01 00	Wire code: Wire type: XY Wire gauges: - 010 (proj) Harn. id: Tacho Screens: - SCT1 Twists: - Tacho Twisting type: 1 Length: 1200 Wire color: green U8025	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
ND1 State: Logconn	FIN: T01 Wire conn. code: Screen order: 0001 Spec. conn.: 100 Electrical potential: Contact order: 000000 Potential conn. order: 000 NA code: 01 Screens: - 01 03 01	FIN: T01 Wire conn. code: Screen order: 0001 Spec. conn.: 000 Electrical potential: Contact order: 000000 Potential conn. order: 000 NA code: 01 Screens: - 01 03 01 SCT1		Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
ND2 State: Logconn	FIN: Sensor Wire conn. code: Screen order: 0001 Spec. conn.: 100 Electrical potential: Contact order: 000000 Potential conn. order: 000 NA code: 01 Screens: - 01 03 01	FIN: Sensor Wire conn. code: Screen order: 0001 Spec. conn.: 000 Electrical potential: Contact order: 000000 Potential conn. order: 000 NA code: 01 Screens: - 01 03 01 SCT1		Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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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	Battery_123 Harn. var.: 123 Harn. iss.: A		CAGE: U8025 Name: UK MoD	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Tacho	Tachometer_101 Harn. var.: 101 Harn. iss.: A		CAGE: U8025 Name: UK MoD	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Lamp1	Front light_501 Harn. var.: 501 Harn. iss.: A		CAGE: U8025 Name: UK MoD	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)
Lamp2	Rear light_503 Harn. var.: 503 Harn. iss.: A		CAGE: U8025 Name: UK MoD	Mountain bicycle and (Mountain storm Mk1 or Brook trekker Mk9)

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Lights

Manual test

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6 Spares 2
7 Required conditions 2

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	0,25 h

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Support equipment

Table 4 Support equipment

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Consumables, materials and expendables

Table 5 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 6 Spares

Name/Alternate name	Identification/Reference	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	

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Lights

Observed fault

Fault codes

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

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Fault reporting 1

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1 References 1

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

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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.

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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-A	
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/Alternate name	Identification/Reference	Quantity	Remark
Specialist toolset	Part No. KZ666/BSK-TLST-001	1 EA	

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Consumables, materials and expendables

Table 4 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 5 Spares

Name/Alternate name	Identification/Reference	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-A.

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.

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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	

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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/Alternate name	Identification/Reference	Quantity	Remark
None			

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Consumables, materials and expendables

Table 4 Consumables, materials and expendables

Name/Alternate name	Identification/Reference	Quantity	Remark
None			

Spares

Table 5 Spares

Name/Alternate name	Identification/Reference	Quantity	Remark
Bulb	CSN D0-00-00 Fig 000 Item A010 Part No. KZ777/LIRUS-L1-11	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.

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Requirements after job completion

Required conditions

Table 6 Required conditions

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

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Light system

Illustrated Parts Data - IPD

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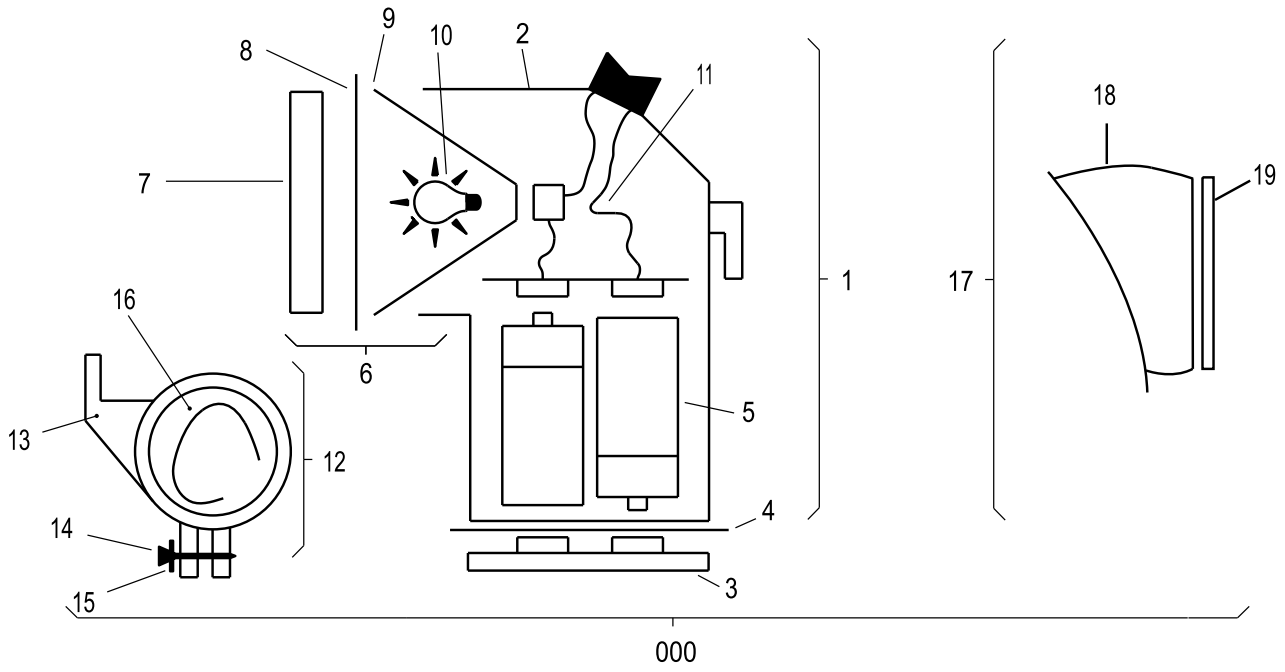
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Table 1 References

Data module/Technical publication	Title
None	



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

Fig 00 Light system

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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
00							
	0	REF EA	KZ777	LRU1001	Light system		
	1	1 EA	KZ777	LRU1010	• Light, sub-assembly front		
	2	1 EA	KZ777	LRU1011	•• Light, main body		
	3	1 EA	KZ777	LRU1012	••• Light, base		
	4	1 EA	KZ777	LRU1013	•••• Seal		
	5	2 BX	KZ777	LIRUS-L1-10	••• Battery		
	6	1 EA	KZ777	LRU1018	•• Lens, assembly		
	7	1 EA	KZ777	LRU1019	••• Lens sub-assembly		
	8	1 EA	KZ777	LRU1022	•••• Seal		
	9	1 EA	KZ777	LRU1020	••• Reflector		
	10	2 EA	KZ777	LIRUS-L1-11	•••• Bulb		
	11	1 EA	KZ777	LRU1026	•• Loom wiring		
	12	1 EA	KZ777	LRU-B001	• Bracket, light mounting		
	13	1 EA	KZ777	LRU-B003	•• Clip		
	14	1 BX	KZ777	LRU-B124	•• Screw,special		
	15	1 BX	KZ777	LRU-B556	•• Washer,flat		
	16	1 EA	KZ777	LRU-B789	••• Grip,strip		
	17	1	KZ777	LRU2010	• Light, sub assembly rear		
	18	1 EA	KZ777	LRU1011	•• Light, main body		
	19	1	KZ777	LRU2018	•• Lens, assembly rear		

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