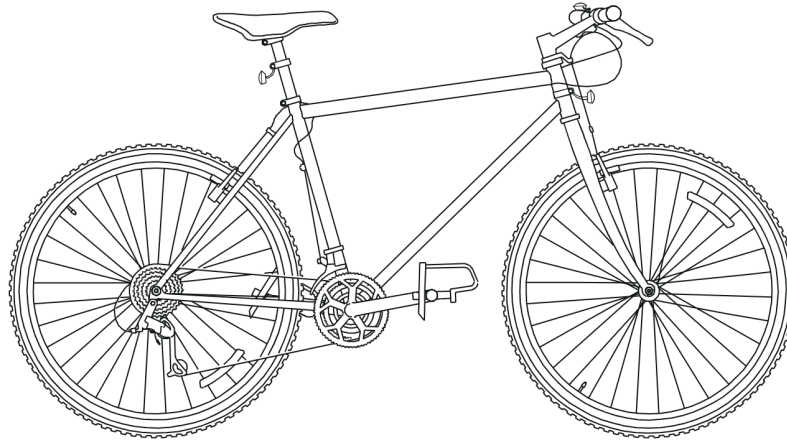


Manufacturer Code: X1234

COMPONENT MAINTENANCE PUBLICATION

Mountain bicycle manual



Product

(NOTE: Refer to the Configuration table for detailed part number information)

BIKE

Export control

This document is export control classified.
US Export Classification EAR ECCN: 9E991

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Configuration

S1000DBIKE-AAA-D00-00-00-00AA-020A-A

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 by 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- The OBS represents a part number and MFR code that is no longer supported but is included in this publication for historical reference.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 CONF-1 Product configuration

| PN class | PN | MFR | Component name | Model |
|----------|--------------|-------|----------------|------------|
| PRIME | 123-1111 | 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The publication configuration shows active or superseded configuration information about this publication.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 CONF-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 |

*End of S1000DBIKE-AAA-D00-00-00-00AA-020A-A
End of CONFIGURATION*

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Copyright statements

S1000DBIKE-AAA-D00-00-00-00AA-021A-A

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End of COPYRIGHT STATEMENTS*

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Administrative and legal statements

S1000DBIKE-AAA-D00-00-00-00AA-023A-A

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End of ADMINISTRATIVE AND LEGAL STATEMENTS*

Intentionally left blank.

Safety statements

S1000DBIKE-AAA-D00-00-00-00AA-012A-A

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 interchangeable.

CAUTION

This is another caution.

Note 1

This is a note.

Note 2

This is another note.

*End of S1000DBIKE-AAA-D00-00-00-00AA-012A-A
End of SAFETY STATEMENTS*

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List of effective data modules

The LOEDM reflects the status of the data modules used within this publication. The following are the a status definitions:

- If the DM is new from the prior release of the publication, an "N" indicates that the data module has been added to the publication since the last release of the publication.
- If the DM is unchanged from the prior release of the publication, the entry is left blank.
- If the DM is changed from the prior release of the publication, a "C" indicates that the data module existed in the previous revision of the publication and has experienced a content change.

| Data module title | Data module code | Issue number | Issue date | Status |
|---|--|--------------|------------|--------|
| Bicycle – Title page | S1000DBIKE-AAA-D00-00-00-00AA-001A-A | 002 | 2016-12-31 | N |
| Bicycle – Configuration | S1000DBIKE-AAA-D00-00-00-00AA-020A-A | 001 | 2016-12-31 | N |
| Bicycle – Copyright statements | S1000DBIKE-AAA-D00-00-00-00AA-021A-A | 001 | 2016-12-31 | N |
| Bicycle – Administrative and legal statements | S1000DBIKE-AAA-D00-00-00-00AA-023A-A | 001 | 2016-12-31 | N |
| Bicycle – Safety statements | S1000DBIKE-AAA-D00-00-00-00AA-012A-A | 001 | 2016-12-31 | N |
| Bicycle – Change record | S1000DBIKE-AAA-D00-00-00-00AA-00TA-A | 001 | 2016-12-31 | N |
| Bicycle – Technical standard record | S1000DBIKE-AAA-D00-00-00-00AA-008A-A | 001 | 2016-12-31 | N |
| Bicycle – Introduction | S1000DBIKE-AAA-D00-00-00-00AA-018A-A | 001 | 2016-12-31 | N |
| Bicycle – Description of how it is made | S1000DBIKE-AAA-D00-00-00-00AA-041A-A | 010 | 2016-12-31 | N |
| Wheel – Description of how it is made | S1000DBIKE-AAA-DA0-00-00-00AA-041A-A | 009 | 2016-12-31 | N |
| Brake system – Description of how it is made | S1000DBIKE-AAA-DA1-00-00-00AA-041A-A | 008 | 2016-12-31 | N |
| Steering – Description of how it is made | S1000DBIKE-AAA-DA2-00-00-00AA-041A-A | 009 | 2016-12-31 | N |
| Headset – Description of how it is made | S1000DBIKE-AAA-DA2-30-00-00AA-041A-A | 008 | 2016-12-31 | N |
| Frame – Description of how it is made | S1000DBIKE-AAA-DA3-00-00-00AA-041A-A | 008 | 2016-12-31 | N |
| Drivetrain – Description of how it is made | S1000DBIKE-AAA-DA4-00-00-00AA-041A-A | 008 | 2016-12-31 | N |

(Continued)

| Data module title | Data module code | Issue number | Issue date | Status |
|--|--------------------------------------|--------------|------------|--------|
| Gears – Description of how it is made | S1000DBIKE-AAA-DA5-00-00-00AA-041A-A | 008 | 2016-12-31 | N |
| Mechs – Description of how it is made | S1000DBIKE-AAA-DA5-10-00-00AA-041A-A | 008 | 2016-12-31 | N |
| Shifters – Description of how it is made | S1000DBIKE-AAA-DA5-30-00-00AA-041A-A | 008 | 2016-12-31 | N |
| Bicycle – Description of function | S1000DBIKE-AAA-D00-00-00-00AA-042A-A | 009 | 2016-12-31 | N |
| Bicycle – Diagrams and schematics | S1000DBIKE-AAA-D00-00-00-00AA-050A-A | 001 | 2016-12-31 | N |
| Inner tube – Remove and install a new item | S1000DBIKE-AAA-DA0-10-10-00AA-921A-A | 008 | 2016-12-31 | N |
| Tire – Remove and install a new item | S1000DBIKE-AAA-DA0-10-20-00AA-921A-A | 008 | 2016-12-31 | N |
| Tire – Fill with air | S1000DBIKE-AAA-DA0-10-20-00AA-215A-A | 008 | 2016-12-31 | N |
| Chain – Oil | S1000DBIKE-AAA-DA4-10-00-00AA-241A-A | 009 | 2016-12-31 | N |
| Bicycle – Other procedures to clean | S1000DBIKE-AAA-D00-00-00-00AA-258A-A | 009 | 2016-12-31 | N |
| Bicycle – Other procedures to clean | S1000DBIKE-AAA-D00-00-00-00AA-258B-A | 002 | 2016-12-31 | N |
| Brake pads – Clean with rubbing alcohol | S1000DBIKE-AAA-DA1-10-00-00AA-251A-A | 008 | 2016-12-31 | N |
| Chain – Clean with chain cleaning fluid | S1000DBIKE-AAA-DA4-10-00-00AA-251B-A | 008 | 2016-12-31 | N |
| Bicycle – Place on test stand | S1000DBIKE-AAA-D00-00-00-00AA-330A-A | 009 | 2016-12-31 | N |
| Brake system – Manual test | S1000DBIKE-AAA-DA1-00-00-00AA-341A-A | 008 | 2016-12-31 | N |
| Fork – Manual test | S1000DBIKE-AAA-D00-00-01-00AA-341A-A | 002 | 2016-12-31 | N |
| Brake system – Manual test | BRAKE-AAA-DA1-00-00-00AA-341A-A | 002 | 2016-12-31 | N |
| Front wheel – Fault reports and isolation procedures | S1000DBIKE-AAA-DA0-10-20-00AA-400A-A | 008 | 2016-12-31 | N |
| Tire – Check pressure | S1000DBIKE-AAA-DA0-10-20-00AA-362B-A | 008 | 2016-12-31 | N |
| Fork – Remove procedures | S1000DBIKE-AAA-D00-00-01-00AA-520A-A | 002 | 2016-12-31 | N |

LIST OF EFFECTIVE DATA MODULES

23-10-10

2016-12-31

Page LOEDM-2

(Continued)

| Data module title | Data module code | Issue number | Issue date | Status |
|--|--------------------------------------|--------------|------------|--------|
| Rear wheel – Remove procedures | S1000DBIKE-AAA-DA0-20-00-00AA-520A-A | 008 | 2016-12-31 | N |
| Front wheel – Remove procedures | S1000DBIKE-AAA-DA0-30-00-00AA-520A-A | 002 | 2016-12-31 | N |
| Front brake – Remove procedures | S1000DBIKE-AAA-DA1-20-00-00AA-520A-A | 002 | 2016-12-31 | N |
| Stem – Remove procedures | S1000DBIKE-AAA-DA2-10-00-00AA-520A-A | 009 | 2016-12-31 | N |
| Handlebar – Remove procedures | S1000DBIKE-AAA-DA2-20-00-00AA-520A-A | 009 | 2016-12-31 | N |
| Headset – Remove procedures | S1000DBIKE-AAA-DA2-30-00-00AA-520A-A | 009 | 2016-12-31 | N |
| Bicycle – Standard repair procedures | S1000DBIKE-AAA-D00-00-00-00AA-663A-A | 010 | 2016-12-31 | N |
| Fork – Install procedures | S1000DBIKE-AAA-D00-00-01-00AA-720A-A | 002 | 2016-12-31 | N |
| Fork – Install procedures | S1000DBIKE-AAA-D00-00-01-00AB-720A-A | 002 | 2016-12-31 | N |
| Front wheel – Install procedures | S1000DBIKE-AAA-DA0-30-00-00AA-720A-A | 002 | 2016-12-31 | N |
| Front brake – Install procedures | S1000DBIKE-AAA-DA1-20-00-00AA-720A-A | 002 | 2016-12-31 | N |
| Stem – Install procedures | S1000DBIKE-AAA-DA2-10-00-00AA-720A-A | 009 | 2016-12-31 | N |
| Handlebar – Install procedures | S1000DBIKE-AAA-DA2-20-00-00AA-720A-A | 009 | 2016-12-31 | N |
| Headset – Install procedures | S1000DBIKE-AAA-DA2-30-00-00AA-720A-A | 009 | 2016-12-31 | N |
| Spacer – Install procedures | S1000DBIKE-AAA-DA2-40-00-00AA-720A-A | 002 | 2016-12-31 | N |
| Bicycle – Extended storage | S1000DBIKE-AAA-D10-30-00-00AA-800A-A | 001 | 2016-12-31 | N |
| Bicycle – Preparation for transport | S1000DBIKE-AAA-D10-30-00-00AA-811A-A | 001 | 2016-12-31 | N |
| IPD – Introduction | S1000DBIKE-AAA-D00-00-00-01AA-041A-A | 008 | 2016-12-31 | N |
| Bicycle – Illustrated Parts Data - IPD | S1000DBIKE-AAA-D00-00-00-01AA-941A-D | 008 | 2016-12-31 | N |

(Continued)

| Data module title | Data module code | Issue number | Issue date | Status |
|---------------------------------|--------------------------------------|--------------|------------|--------|
| Bicycle – Enterprise repository | S1000DBIKE-AAA-D00-00-00-00AA-00KA-A | 001 | 2016-12-31 | N |

End of LIST OF EFFECTIVE DATA MODULES

Change record

S1000DBIKE-AAA-D00-00-00-00AA-00TA-A

1. Change record

The change record displays the issue history of the publication.

Table CR-1 Change record

| Issue number | Issue date | Issue number | Issue date |
|---------------------|-------------------|---------------------|-------------------|
| 001 | 2021-12-31 | | |
| 002 | 2022-03-01 | | |

*End of S1000DBIKE-AAA-D00-00-00-00AA-00TA-A
End of CHANGE RECORD*

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Highlights

The listed changes are included in issue 001, dated 2016-12-31, of this publication.

| Publication/Data module | Reason for update | Page number |
|--------------------------------------|--|--------------------|
| S1000DBIKE-AAA-D00-00-00-00AA-258A-A | Common Information added | SERVC-10 |
| S1000DBIKE-AAA-D00-00-00-00AA-258A-A | Detergent B substituted by Detergent C | SERVC-1 |
| S1000DBIKE-AAA-D00-00-00-00AA-258A-A | Applicability added/changed | SERVC-10 |
| S1000DBIKE-AAA-D00-00-00-00AA-258A-A | Applicability added/changed | SERVC-10 |
| S1000DBIKE-AAA-D00-00-00-00AA-258A-A | Detergent B substituted by Detergent C | SERVC-15 |
| S1000DBIKE-AAA-D00-00-00-00AA-258B-A | Detergent B substituted by Detergent C | SERVC-1 |

End of HIGHLIGHTS

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List of abbreviations

Abbreviation**Definition**

None

End of LIST OF ABBREVIATIONS

Intentionally left blank.

List of terms

Term

Definition

None

End of LIST OF TERMS

Intentionally left blank.

List of symbols

Symbol

Definition

None

End of LIST OF SYMBOLS

Intentionally left blank.

Technical standard record*S1000DBIKE-AAA-D00-00-00-00AA-008A-A***1. Technical standard record**

The TSR lists service bulletins incorporated in this publication.

Table TSR-1 Technical standard record

| SB number | SB title | SB revision number | SB date | CMP issue number |
|------------------|--|---------------------------|----------------|-------------------------|
| 3333-33-23-0001 | Modification of top cover | 001 | 2017-06-15 | 006 |
| 2222-22-23-0003 | Conversion of part number 222-2222-22 to 333-3333-33 | 001 | 2016-12-15 | 005 |
| 2222-22-23-0002 | Modification of bottom cover | 001 | 2016-06-15 | 004 |
| 2222-22-23-0002 | [No Impact] | 002 | 2016-07-15 | 005 |
| 2222-22-23-0001 | Modification of top cover | 001 | 2015-12-15 | 002 |
| 1111-11-23-0001 | Modification of top cover | 001 | 2015-12-15 | 002 |

*End of S1000DBIKE-AAA-D00-00-00-00AA-008A-A
End of TECHNICAL STANDARD RECORD*

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Table of contents

| Section | Page |
|---|-------------|
| Title page | TP-1 |
| Configuration | CONF-1 |
| Copyright statements | COPY-1 |
| Administrative and legal statements | ADMIN-1 |
| Safety statements | SAFE-1 |
| List of effective data modules | LOEDM-1 |
| Change record | CR-1 |
| Highlights | HIGH-1 |
| List of abbreviations | LOA-1 |
| List of terms | LOT-1 |
| List of symbols | LOS-1 |
| Technical standard record | TSR-1 |
| Table of contents | TOC-1 |
| List of illustrations | LOI-1 |
| List of tables | LOTBL-1 |
| List of applicable specifications and documentation | LOADS-1 |
| List of suppliers | LOSUP-1 |
| List of support equipment | LOSE-1 |
| List of supplies | LOSU-1 |
| List of spares | LOSP-1 |
| Introduction | INTRO-1 |
| Functional and technical descriptions | |
| Description of function | FUNC-1 |
| Physical description of a bicycle | FUNC-1 |
| The bicycle wheel | FUNC-3 |
| Brake system | FUNC-9 |
| Steering | FUNC-15 |
| Headset | FUNC-15 |
| The bicycle frame | FUNC-18 |
| Drive train | FUNC-21 |
| Gears | FUNC-21 |
| Derailleur | FUNC-21 |

(Continued)

| Section | Page |
|--|----------|
| Shifters | FUNC-26 |
| Technical description | DESC-1 |
| Functional description of a bicycle | DESC-1 |
| Diagrams and schematics | SCHEM-1 |
| Diagrams and schematics | SCHEM-1 |
| Maintenance and servicing | |
| Task sets | TS-1 |
| Inner-tube | TS-1 |
| Tire | TS-3 |
| Servicing | SERVC-1 |
| Tire | SERVC-2 |
| Chain | SERVC-2 |
| Clean the bicycle | SERVC-10 |
| Clean the bicycle | SERVC-15 |
| Clean the brake pads | SERVC-20 |
| Clean the chain | SERVC-21 |
| Examination, test, checks, and fault isolation | TEST-1 |
| Test stand | TEST-1 |
| Brake system manual test | TEST-1 |
| Fork manual test | TEST-2 |
| Brake system manual test | TEST-2 |
| Front wheel test | TEST-2 |
| Tire check pressure | TEST-3 |
| Disassemble | DIS-1 |
| Fork remove procedures | DIS-1 |
| Rear wheel remove procedures | DIS-1 |
| Front wheel remove procedures | DIS-2 |
| Front brake remove procedures | DIS-2 |
| Stem remove procedures | DIS-2 |
| Remove the grips | DIS-4 |
| Headset remove procedures | DIS-8 |
| Repair | REP-1 |
| Bicycle standard repair procedures | REP-1 |
| Assemble | ASSY-1 |

(Continued)

| Section | Page |
|--------------------------------------|---------|
| Fork install procedures | ASSY-2 |
| Fork install procedures | ASSY-2 |
| Front wheel install procedures | ASSY-2 |
| Front brake install procedures | ASSY-3 |
| Stem install procedures | ASSY-3 |
| Handlebar install procedures | ASSY-8 |
| Headset install procedures | ASSY-9 |
| Spacer install procedures | ASSY-9 |
| Storage | STORE-1 |
| Extended storage | STORE-1 |
| Preparation for transport | STORE-1 |
| Illustrated parts data | |
| Introduction | IPD-1 |
| Introduction | IPD-1 |
| Numerical index | IPD-3 |
| Equipment designator index | IPD-5 |
| Detailed parts data | IPD-7 |
| Bicycle | IPD-7 |

End of TABLE OF CONTENTS

Intentionally left blank.

List of illustrations

| Figure | Title | Page |
|---------------|--|-------------|
| Fig FUNC-1 | Complete bicycle | FUNC-1 |
| Fig FUNC-2 | Parts of the wheel | FUNC-4 |
| Fig FUNC-3 | The tire and rim | FUNC-6 |
| Fig FUNC-4 | Valve | FUNC-8 |
| Fig FUNC-5 | Cantilever brake with straddle cable | FUNC-10 |
| Fig FUNC-6 | Exploded diagram of a brake | FUNC-12 |
| Fig FUNC-7 | Typical components of a mountain bicycle lever | FUNC-14 |
| Fig FUNC-8 | Headset | FUNC-17 |
| Fig FUNC-9 | Welded frame joints | FUNC-19 |
| Fig FUNC-10 | Frame | FUNC-20 |
| Fig FUNC-11 | Front derailleur | FUNC-23 |
| Fig FUNC-12 | Rear derailleur | FUNC-25 |
| Fig FUNC-13 | Thumb shifter index type | FUNC-27 |
| Fig FUNC-14 | Unscrew wingnut | FUNC-29 |
| Fig FUNC-15 | Loosen the nut | FUNC-30 |
| Fig FUNC-16 | Loosen the shifter clamp bolt | FUNC-32 |
| Fig TS-1 | Removing the inner tube | TS-2 |
| Fig SERVC-1 | Derailleur pivots | SERV-4 |
| Fig SERVC-2 | Derailleur tension | SERV-5 |
| Fig SERVC-3 | Brake lever pivots | SERV-7 |
| Fig SERVC-4 | Lubricate the chain | SERV-9 |
| Fig SERVC-5 | Cleaning the bike | SERV-12 |
| Fig SERVC-6 | Degreasing the freehub | SERV-14 |
| Fig SERVC-7 | Cleaning the bike | SERV-17 |
| Fig SERVC-8 | Degreasing the freehub | SERV-19 |
| Fig DIS-1 | Remove the bolt | DIS-3 |
| Fig DIS-2 | Loosen the clamp screw with the Allen wrench | DIS-5 |
| Fig DIS-3 | Loosen the clamp bolt | DIS-7 |
| Fig DIS-4 | Lift the upper bearing cup | DIS-9 |
| Fig REP-1 | Unseating the tire with a tire lever | REP-2 |
| Fig REP-2 | Circle leak | REP-4 |
| Fig REP-3 | Sanding the application area | REP-6 |

(Continued)

| Figure | Title | Page |
|---------------|--------------------------------------|-------------|
| Fig REP-4 | Apply glue to application area | REP-8 |
| Fig REP-5 | Apply pressure to tube | REP-10 |
| Fig ASSY-1 | Lubricate the thread | ASSY-5 |
| Fig ASSY-2 | Tighten the bolt | ASSY-7 |
| Fig IPD-1 | Bicycle | IPD-8 |

End of LIST OF ILLUSTRATIONS

List of tables

| Table | Title | Page |
|--------------|---------------------------------|-------------|
| Table CONF-1 | Product configuration | CONF-1 |
| Table CONF-2 | Publication configuration | CONF-1 |
| Table CR-1 | Change record | CR-1 |
| Table TSR-1 | Technical standard record | TSR-1 |
| Table FUNC-1 | Bicycle parts | FUNC-2 |

End of LIST OF TABLES

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List of applicable specifications and documentation

| Data module/Technical publication | Title |
|--|--|
| S1000DBIKE-B6865-SAFE1-00 SafeS-12-156B | , S1000DBIKE-B6865-SAFE1-00 Sticky stuff - Safety sheet, SafeS-12-156B, Revision 2014 |
| S1000DBIKE-B6865-SAFE1-00 SafeS-12-156B | Safety Handbook - Greasy Bikes, S1000DBIKE-B6865-SAFE1-00 Sticky stuff - Safety sheet, SafeS-12-156B, Revision 2014 |
| S1000DBIKE-B6865-SAFE1-00 SafeS-12-156B | , S1000DBIKE-B6865-SAFE1-00 Sticky stuff - Safety sheet, SafeS-12-156B, Revision 2014 |
| S1000DBIKE-B6865-SAFE1-00 SafeS-12-156B | Safety Handbook - Greasy Bikes, S1000DBIKE-B6865-SAFE1-00 Sticky stuff - Safety sheet, SafeS-12-156B, Revision 2014 |

End of LIST OF APPLICABLE SPECIFICATIONS AND DOCUMENTATION

Intentionally left blank.

List of suppliers

| MFR | Supplier |
|------------|--|
| KZ666 | ACME, 1 ACME Street, North Pole, NP, 00000-0000, International, Phone: 1 800 555-5747, Fax: 1 800 555-5747, Email: kris.kringle@atabiz.org, https://www.atabiz.org/ |
| X1234 | Docuneering Limited, PO Box 4254, Melksham, SN12 9BL, United Kingdom, Phone: +44 (0) 7776 410 311, Email: hello@docuneering.com , https://www.docuneering.com |
| B6865 | AeroSpace and Defence Industries Association of Europe, 10, Rue Montoyer, Brussels, B-1000, Belgium |

End of LIST OF SUPPLIERS

Intentionally left blank.

List of support equipment

Equivalent substitutes may be used, unless otherwise specified.

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

| Name | Identifiacion/Reference | MFR |
|---------------------------|-------------------------|-------|
| 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 guage | 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 |

End of LIST OF SUPPORT EQUIPMENT

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List of supplies

Equivalent substitutes may be used, unless otherwise specified.

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

| Name | Identifiacion/Reference | MFR |
|-----------------------------|--------------------------------|------------|
| ACME Middling Detergent 69 | BSK-TLST-023-14 | KZ666 |
| ACME sticky lube 52B | LL-007 | KZ222 |
| ACME super 45 Agent | LL-004 | KZ222 |
| AECMA Heavy duty Oil 1988 | HD1988 | B6865 |
| BoeBus DeLux Detergent No.6 | BSK-TLST-001-15 | KZ666 |
| General grease | LL-005 | KZ222 |
| General lubricant | LL-001 | KZ222 |
| Rubbing alcohol | LL-002 | KZ222 |

End of LIST OF SUPPLIES

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List of spares

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

| Name | Identifiacion/Reference | MFR |
|--------------------------|-------------------------|-------|
| Brake cable hangar | BR-LVRS-002 | KT444 |
| Brake lever | BR-LVRS-001 | KT444 |
| Brake lever mount | BR-LVRS-001-01 | KT444 |
| Conical expansion washer | St-001-05 | KZ555 |
| Dust seal | St-001-04 | KZ555 |
| Fork | | |
| - Fork | | |
| Fork set | SPA-1000-1 | KZ666 |
| - Fork | FK-TEL1001 | KZ666 |
| 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 | SI-001 | KZ555 |
| Stem | St-001 | KZ555 |
| Stem bolt | St-001-01 | KZ555 |
| Tire | TIRES-010101 | KT666 |
| Upper bearing cup | St-001-03 | KZ555 |

End of LIST OF SPARES

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Introduction

S1000DBIKE-AAA-D00-00-00-00AA-018A-A

1. Introduction

A. Introduction goes here...

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End of INTRODUCTION*

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Functional and technical descriptions

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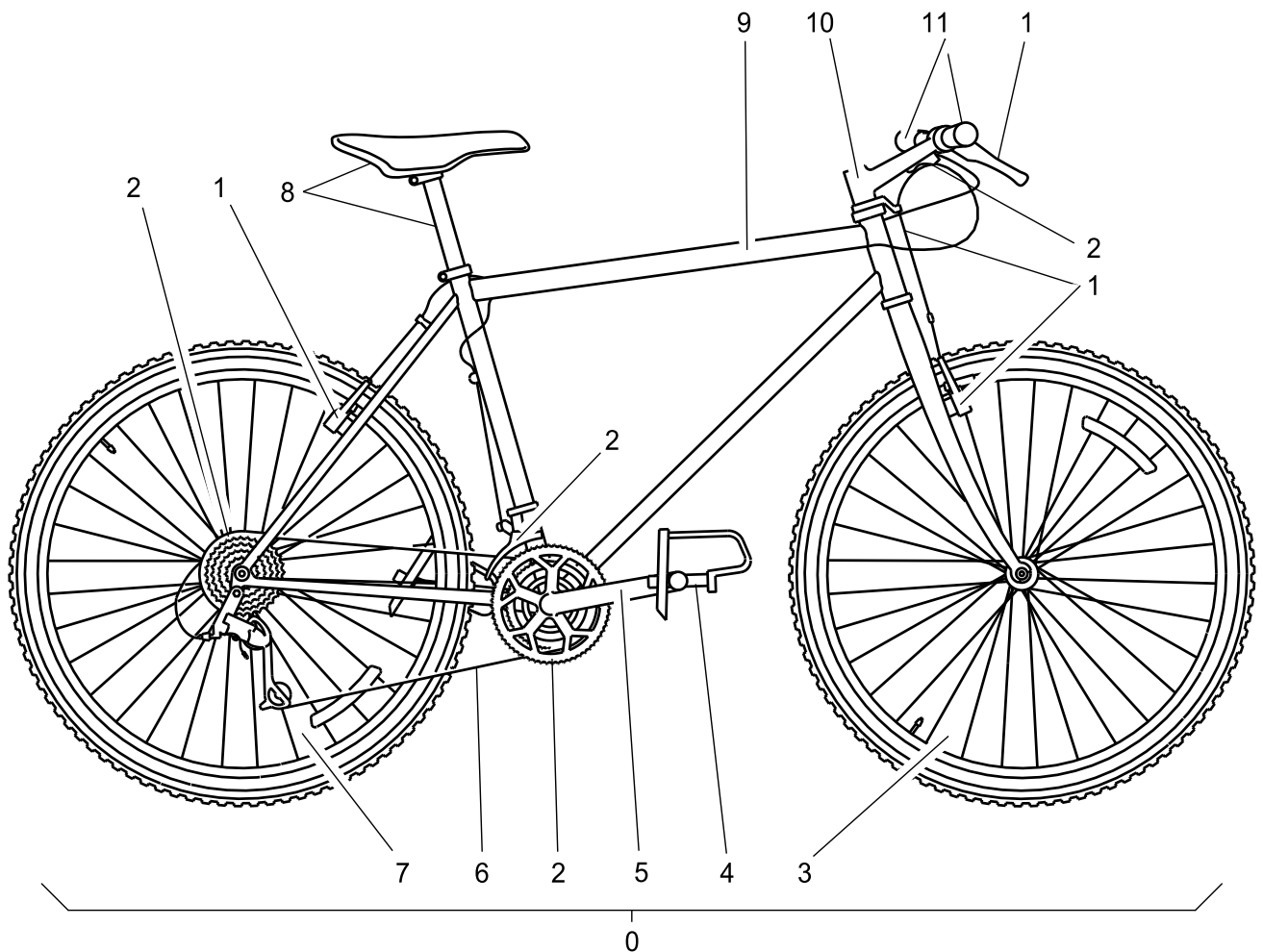
Description of function

S1000DBIKE-AAA-D00-00-00-00AA-041A-A

1. Physical description of a bicycle

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

- an inspection
- a maintenance task
- a repair task



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Figure FUNC-1 (Sheet 1 of 1) Complete bicycle

DESCRIPTION OF FUNCTION

2016-12-31

Page FUNC-1

23-10-10

The parts that you can immediately identify on a bicycle are given in [Table FUNC-1](#).

Table FUNC-1 Bicycle parts

| Item | Refer to | Definition |
|--------------------|---------------------------------|--|
| Frame | Fig FUNC-1 [9] | A bicycle frame is made of metal tubes that are welded together. |
| Wheels | | The wheels include these parts: <ul style="list-style-type: none"> - Hub - Spokes - Metal rim - Rubber tire |
| - Rear wheel | Fig FUNC-1 [7] | |
| - Front wheel | Fig FUNC-1 [3] | |
| Seat and seat post | Fig FUNC-1 [8] | These install into the seat tube with a mechanism you can use to change the height. |
| Handle bars | Fig FUNC-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 FUNC-1 [10] | This attaches the handle bar to the steering tube (head set). |
| Cranks | Fig FUNC-1 [5] | A lever that extends from the bottom of the bracket to the pedal. |
| Pedals | Fig FUNC-1 [4] | The two platforms for the feet that attach to the crank. |
| Chain | Fig FUNC-1 [6] | A circular set of links that connect the chain ring to the cogs on the freewheel. |
| Gears | Fig FUNC-1 [2] | The gears include: <ul style="list-style-type: none"> - Front chain ring - Rear freewheel - Front and the rear derailleur - Shift lever on the handle bars - Cables |
| Brakes | Fig FUNC-1 [1] | The brakes include: <ul style="list-style-type: none"> - Actuators on the handlebars - Brake cable |

Table FUNC-1 Bicycle parts

| Item | Refer to | Definition |
|------|----------|-------------------|
| | | - Brake callipers |
| | | - Brake pads |

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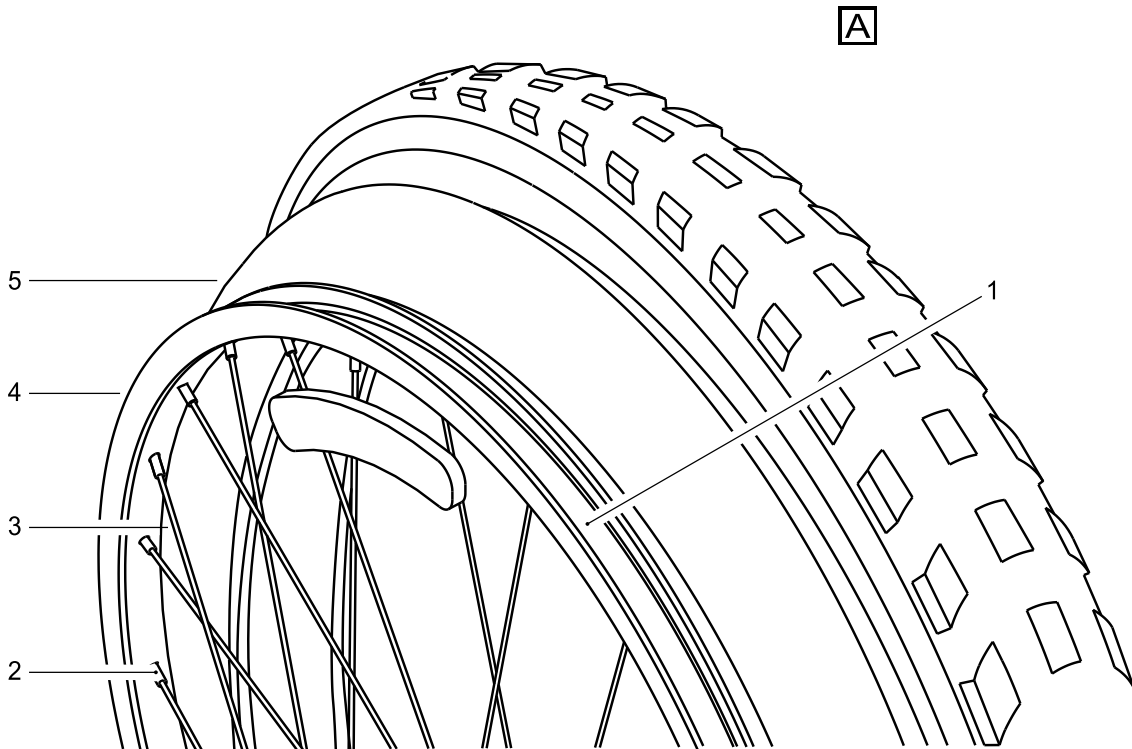
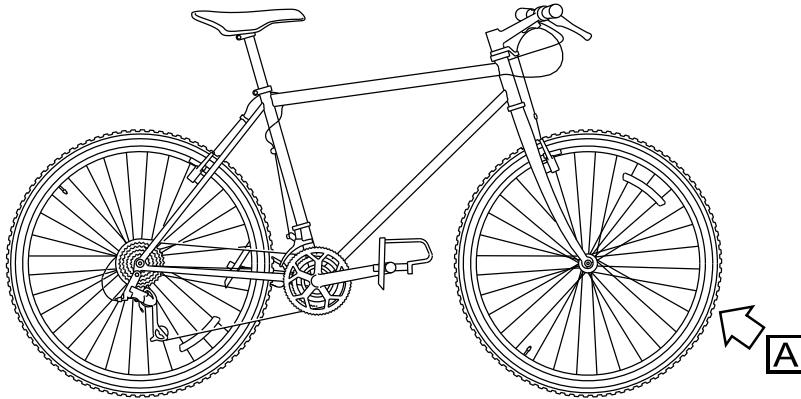
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2. The bicycle wheel

The wheel (refer to [Fig FUNC-2](#)) of a bicycle is a complex structure. The wheel assembly has these parts:

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

On their own, the individual components are not very strong. But, when they are installed together, the components make the complete wheel (refer to [Fig FUNC-2](#)). The complete wheel is resistant to almost any type of heavy loads and operation.

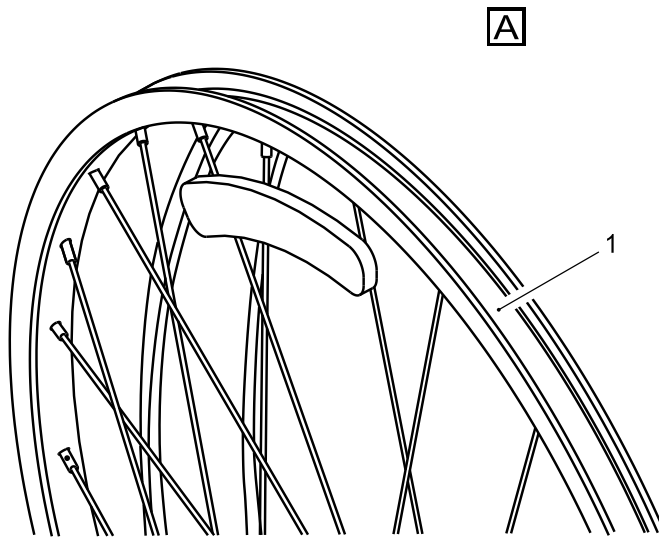
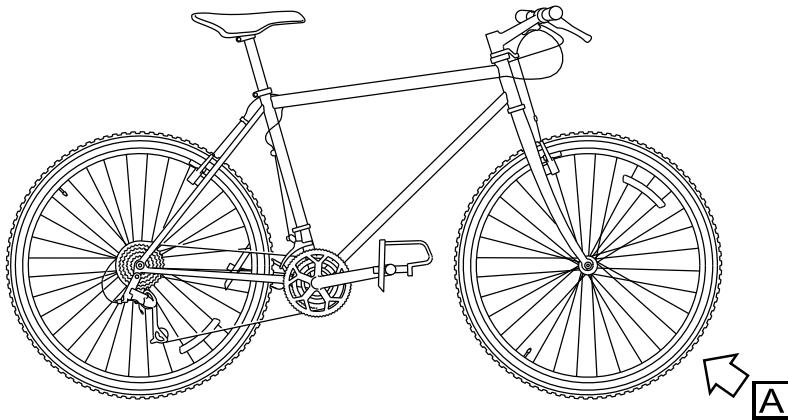


A. Spokes

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.

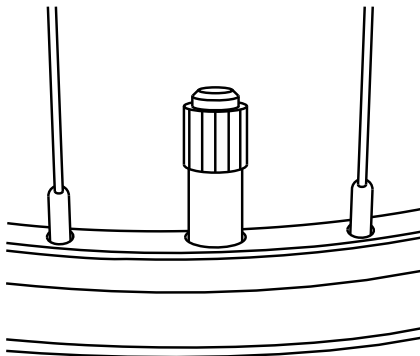
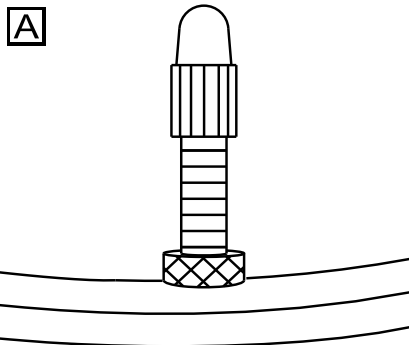
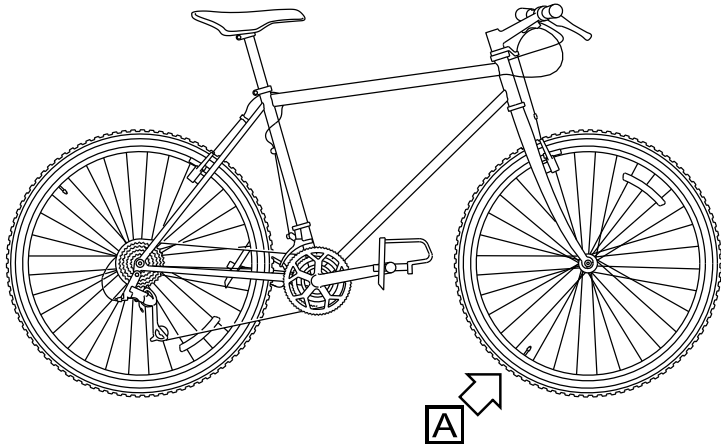
B. Wheel rim

The rim (refer to [Fig FUNC-3](#)) 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.



C. 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 FUNC-4](#)) which you put through the hole in the rim. This valve (refer to [Fig FUNC-4](#)) is used to inflate the tube and the tire to the correct pressure. A dust cap installs on the valve (refer to [Fig FUNC-4](#)) to prevent damage that dust and debris can cause.



ICN-C0419-S1000D0367-001-01

Figure FUNC-4 (Sheet 1 of 1) Valve

DESCRIPTION OF FUNCTION

2016-12-31

Page FUNC-8

23-10-10

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3. Brake system

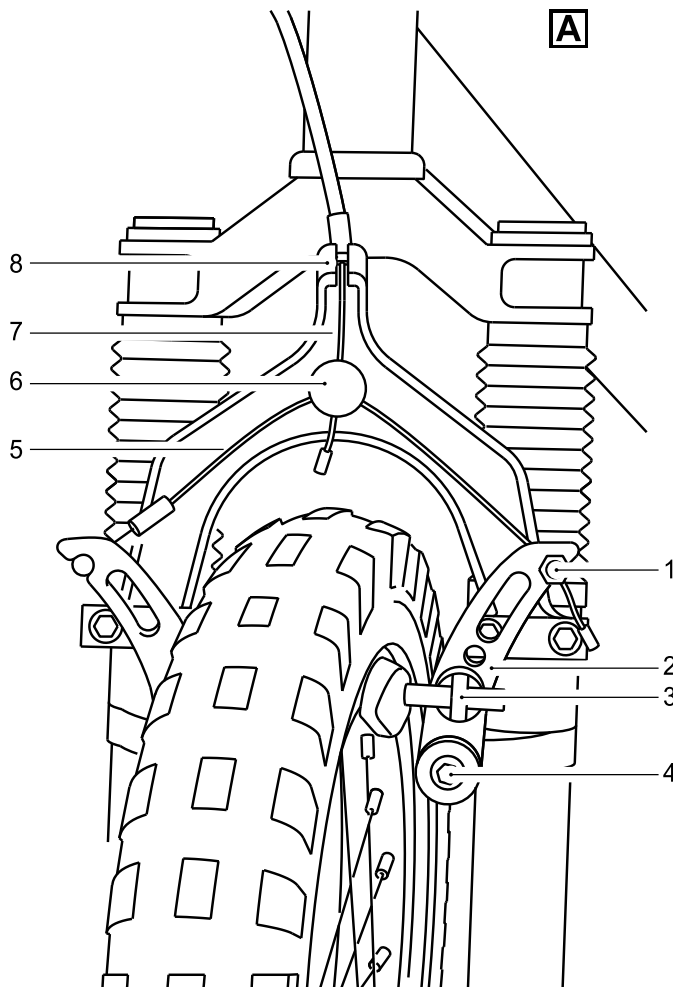
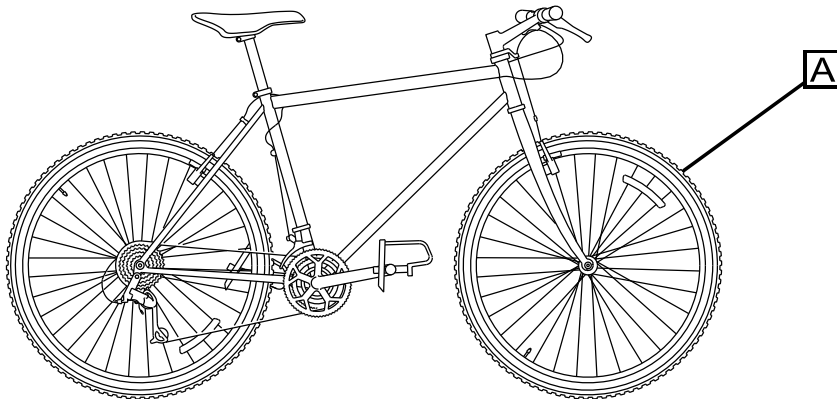
The most important part of the bicycle is the brake system. Only a minimum maintenance of the brake system is necessary. But, when a problem does occur, make sure you to do the necessary maintenance as quickly as possible. If you do not do this the bicycle will be dangerous to use.

There are nine different types of brake systems. The one found on most bicycles is the cantilever brake (refer to [Para 3.A.](#)).

A. Cantilever brake

The brake system (refer to [Fig FUNC-5](#)) has these primary components:

- the brake lever (refer to [Para 3.C.](#))
- the brake cable
- the brake arm
- the brake clamp (also known as callipers)
- the brake pads (refer to [Para 3.B.](#))



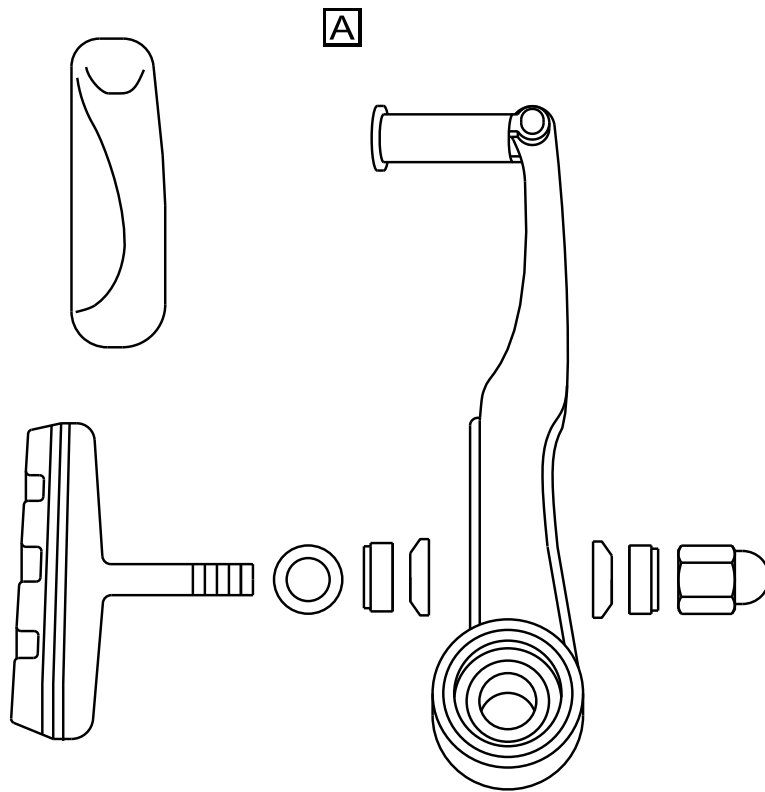
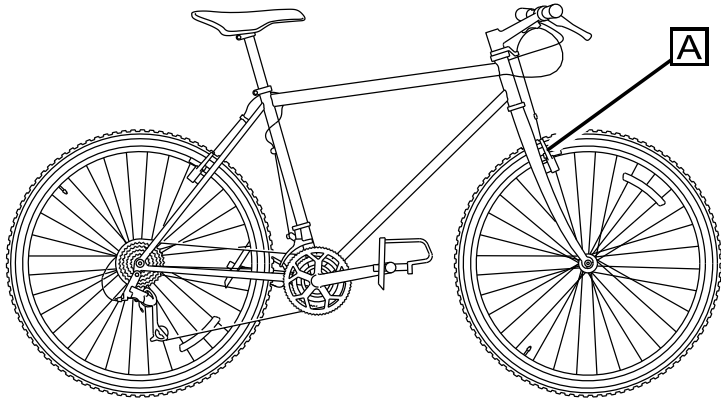
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Figure FUNC-5 (Sheet 1 of 1) Cantilever brake with straddle cable

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

B. Brake pads

There are four brake pads (refer to [Fig FUNC-6](#)) 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.

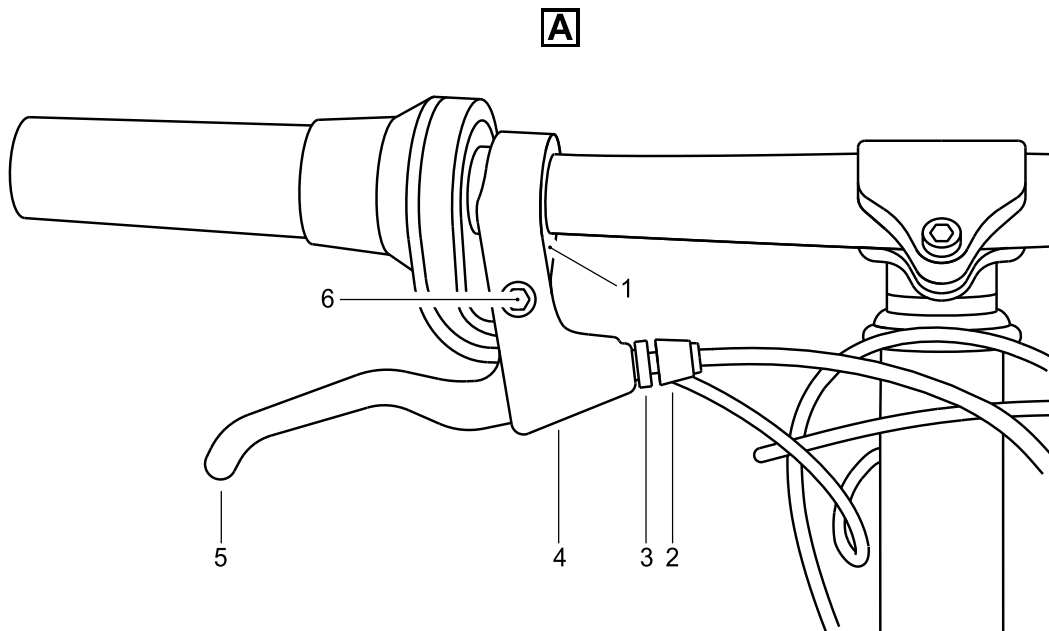
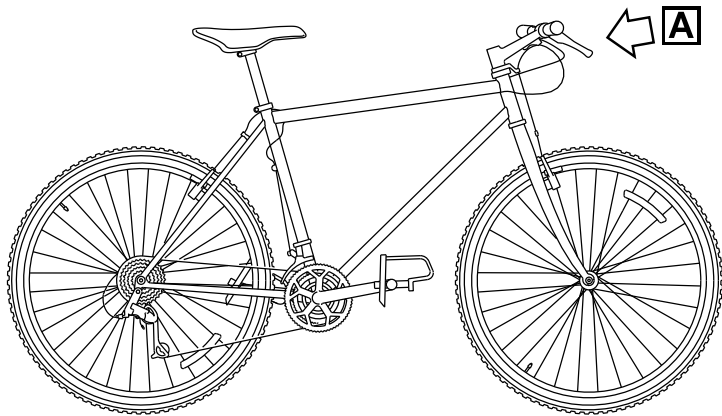


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Figure FUNC-6 (Sheet 1 of 1) Exploded diagram of a brake

C. Brake lever

The brake levers (refer to [Fig FUNC-7](#)) are easily damaged. The lever is installed in the mount. A clamp bolt holds the mount. This bolt is not visible because it is found in the mount. The lever turns on a lever pivot bolt. The adjuster lock nut holds the brake cable. This lock nut adjusts the tension of the cable.



ICN-C0419-S1000D0381-001-01

Figure FUNC-7 (Sheet 1 of 1) Typical components of a mountain bicycle lever

DESCRIPTION OF FUNCTION

2016-12-31

Page FUNC-14

23-10-10

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

End of S1000DBIKE-AAA-DA1-00-00-00AA-041A-A

S1000DBIKE-AAA-DA2-00-00-00AA-041A-A

4. 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 4.A.](#) The handlebar

[Para 4.B.](#) The headset

[Para 4.C.](#) The stem

A. 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.

B. 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](#).

C. 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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5. Headset

The headset (refer to [Fig FUNC-8](#)) 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 FUNC-8](#)) includes the parts that follow:

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

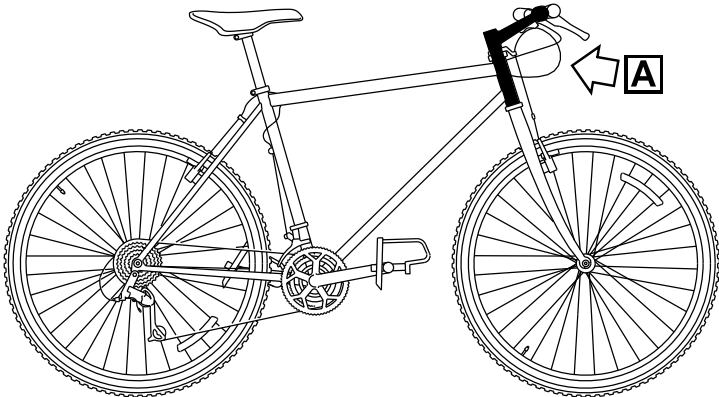
A headset has cups that are pushed into the head tube and a ring on the fork. All three must be fully parallel. It is usually necessary to remove rough paint to get all three fully parallel.

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

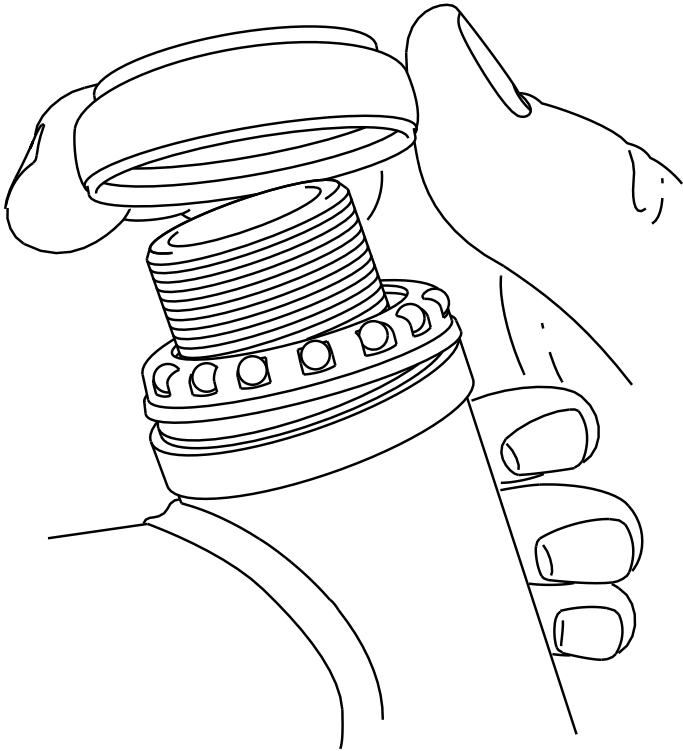
A clamp bolt holds the stem to the steerer tube.

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

For an illustration of the parts of the headset (refer to [Fig FUNC-8](#)).



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Figure FUNC-8 (Sheet 1 of 1) Headset

23-10-10

DESCRIPTION OF FUNCTION

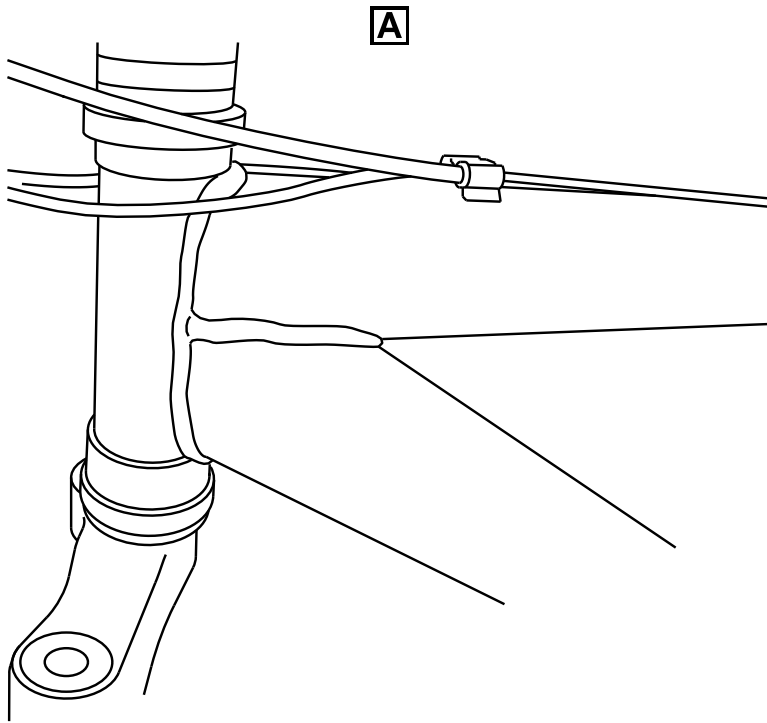
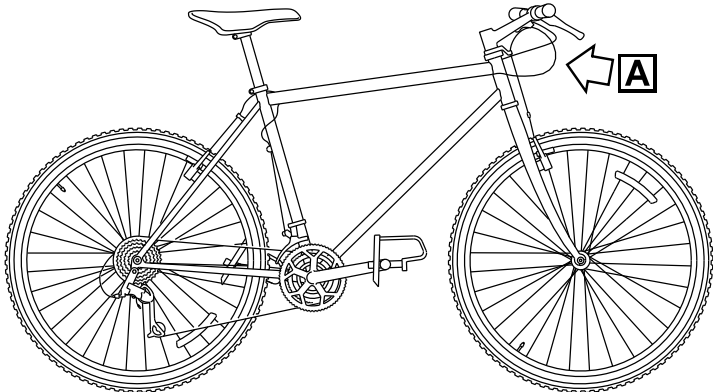
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Page FUNC-17

6. 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 FUNC-9](#)) were tubes of aluminum or steel welded together.



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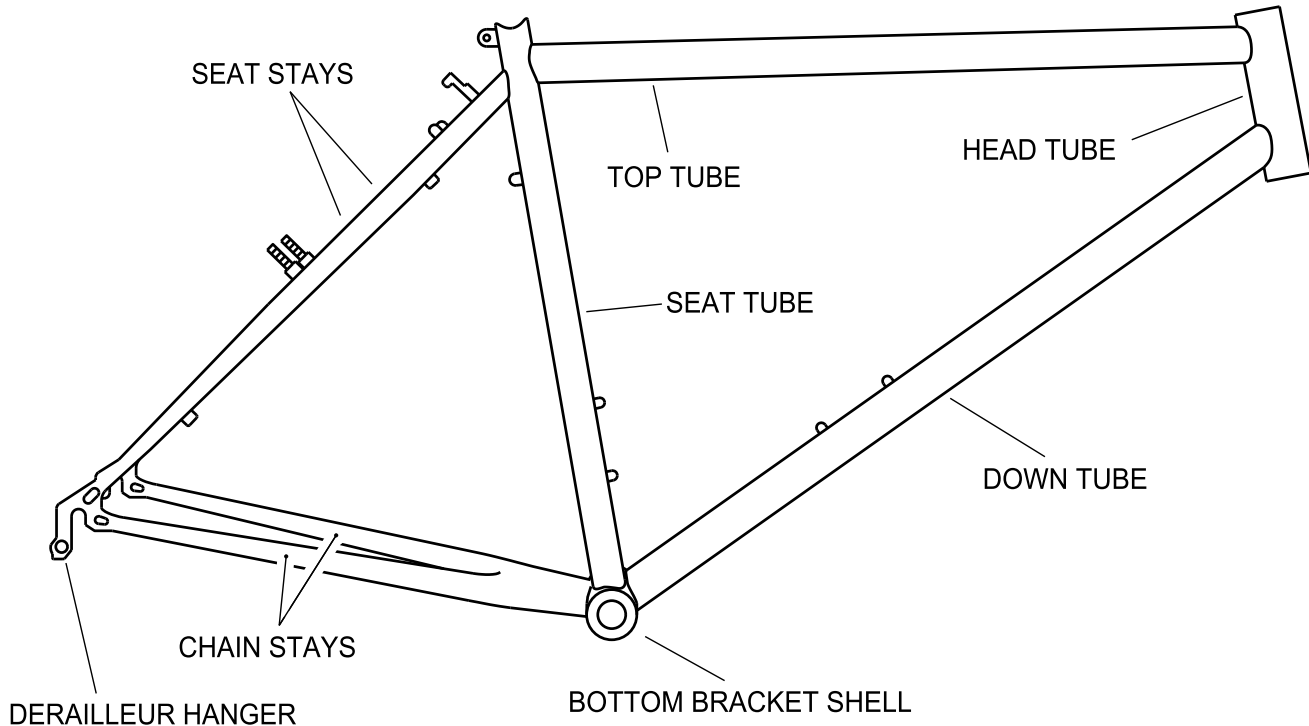
Figure FUNC-9 (Sheet 1 of 1) Welded frame joints

DESCRIPTION OF FUNCTION

23-10-10

**2016-12-31
Page FUNC-19**

Subsequent frames (refer to [Fig FUNC-10](#)) can be made out of a wide variety of materials, including aluminium, titanium, or chrome moly.



ICN-C0419-S1000D0393-001-01

Figure FUNC-10 (Sheet 1 of 1) Frame

Other Frames 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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7. 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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8. 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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9. Derailleur

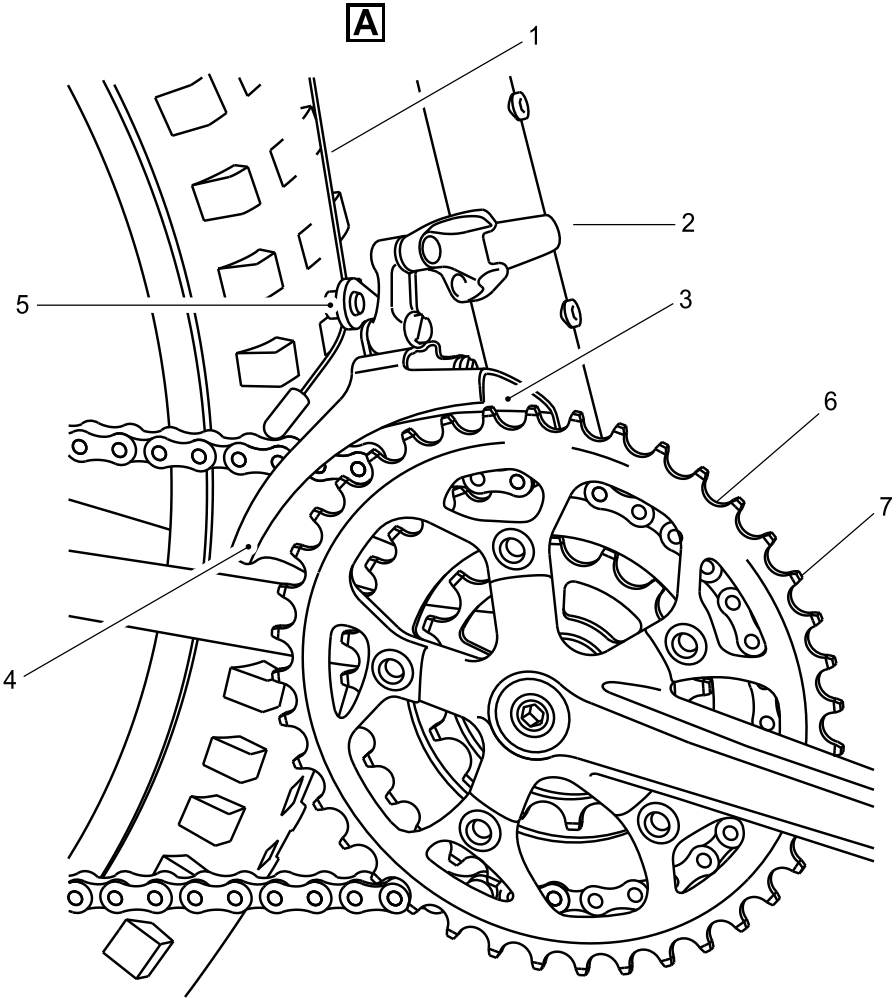
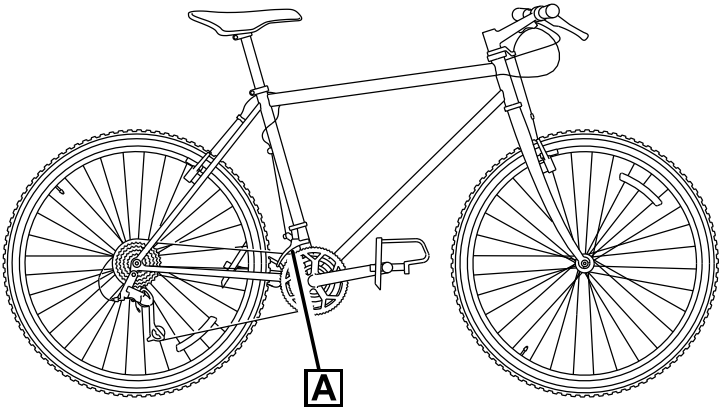
There are two different types of derailleur, the front and the rear.

A. Front derailleur

The front derailleur (refer to [Fig FUNC-11](#)) 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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Figure FUNC-11 (Sheet 1 of 1) Front derailleur

DESCRIPTION OF FUNCTION

23-10-10

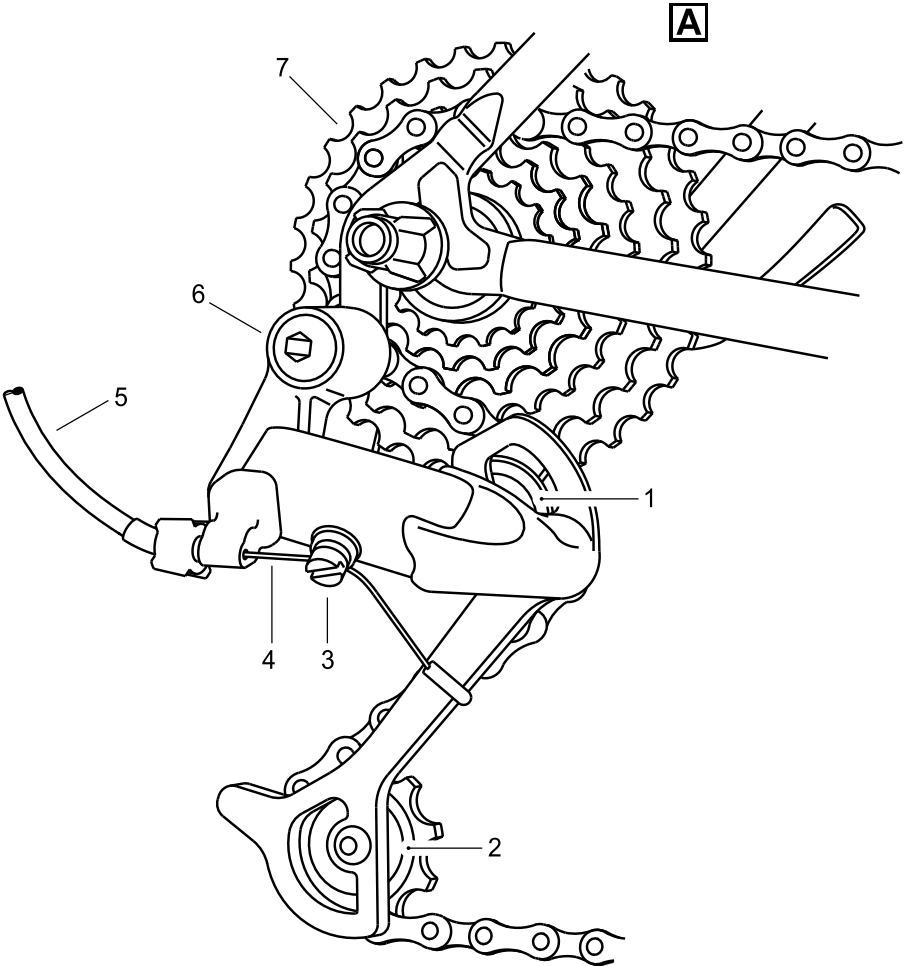
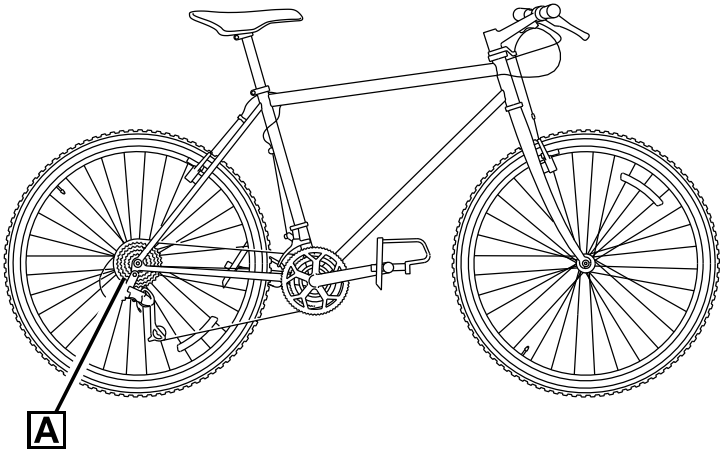
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Page FUNC-23

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.

B. Rear derailleur

The rear derailleur (refer to [Fig FUNC-12](#)) 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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ICN-C0419-S1000D0397-001-01

Figure FUNC-12 (Sheet 1 of 1) Rear derailleur

DESCRIPTION OF FUNCTION

2016-12-31

Page FUNC-25

23-10-10

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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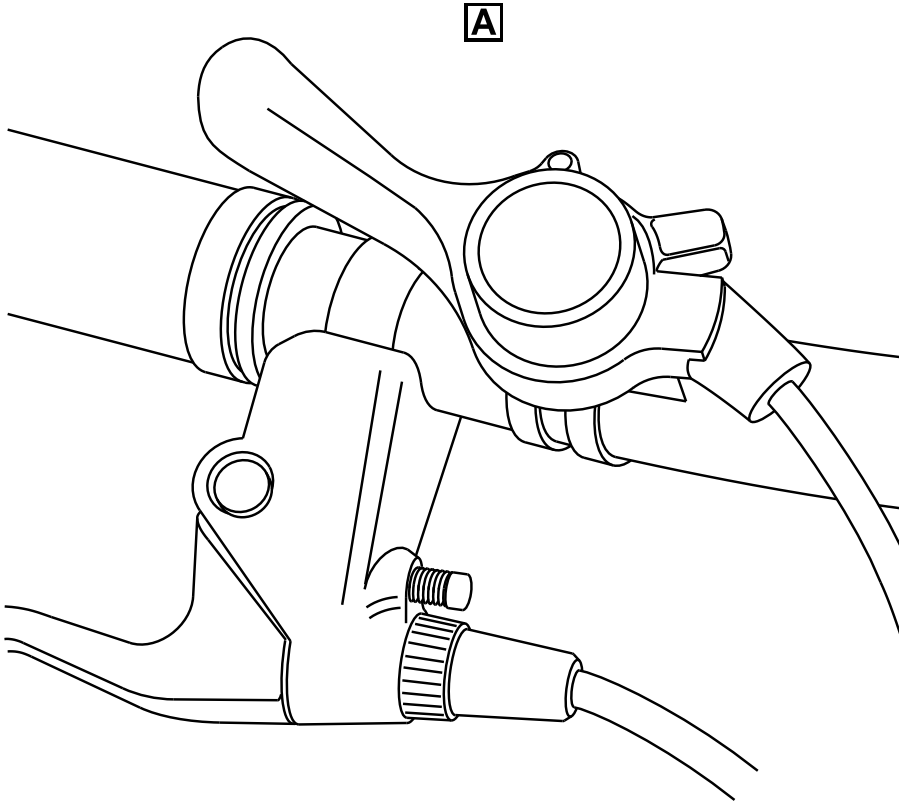
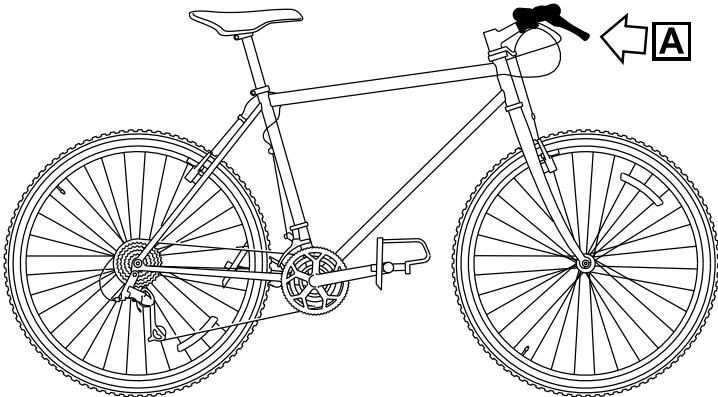
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10. Shifters

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 FUNC-13](#)) are held on the bicycle with a screw. The paragraph that follows gives a description of a thumb shifter.



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Figure FUNC-13 (Sheet 1 of 1) Thumb shifter index type

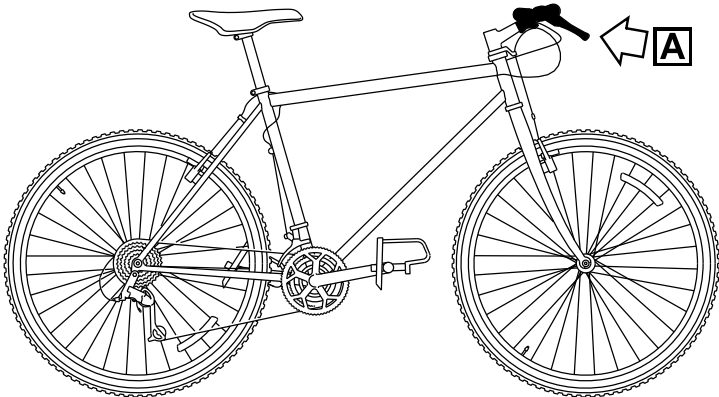
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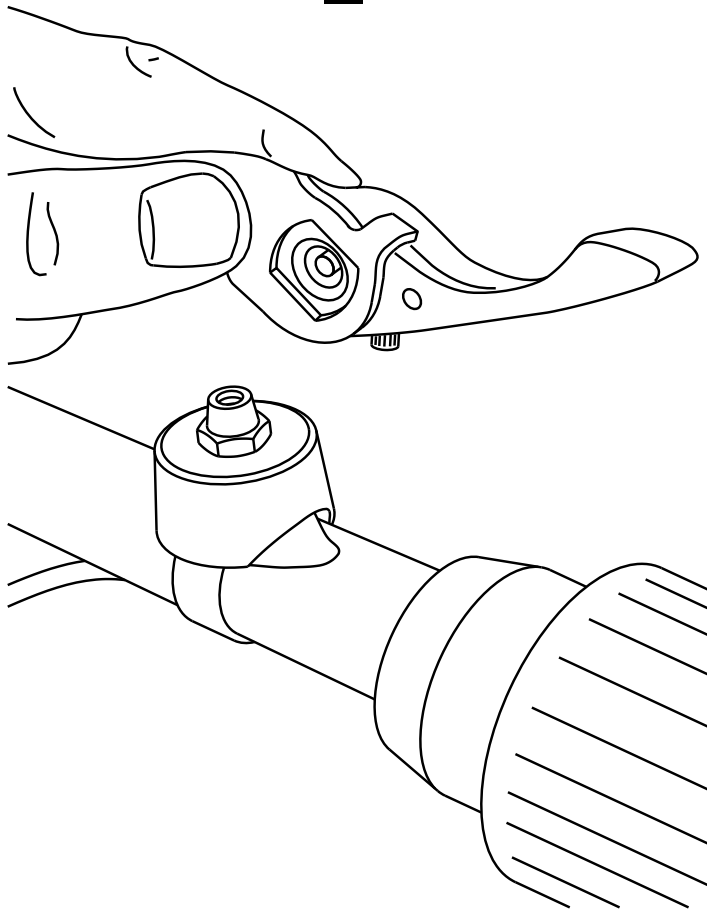
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Page FUNC-27

11. How a thumb shifter is made up

A wing nut (refer to [Fig FUNC-14](#)) 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 FUNC-15](#)), 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 place on the handle bar by a nut.



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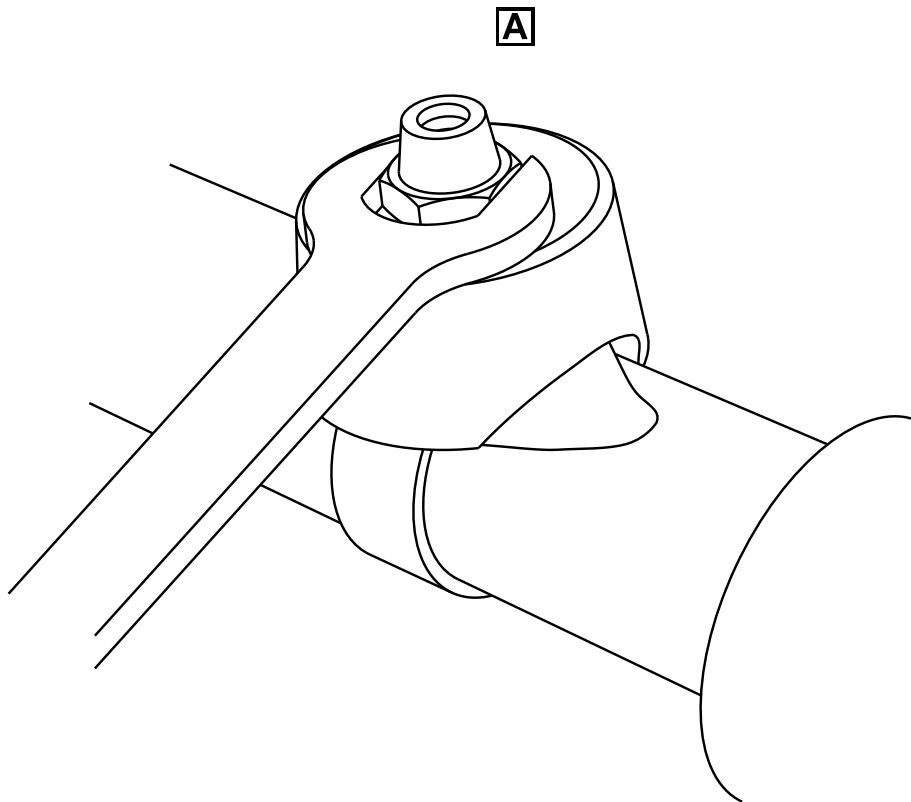
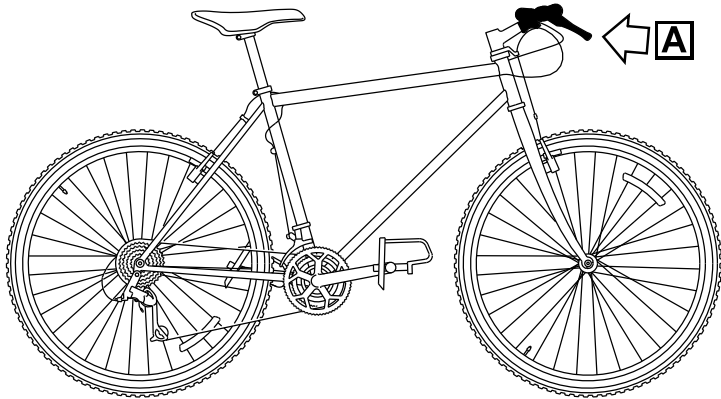
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Figure FUNC-14 (Sheet 1 of 1) Unscrew wingnut

DESCRIPTION OF FUNCTION

23-10-10

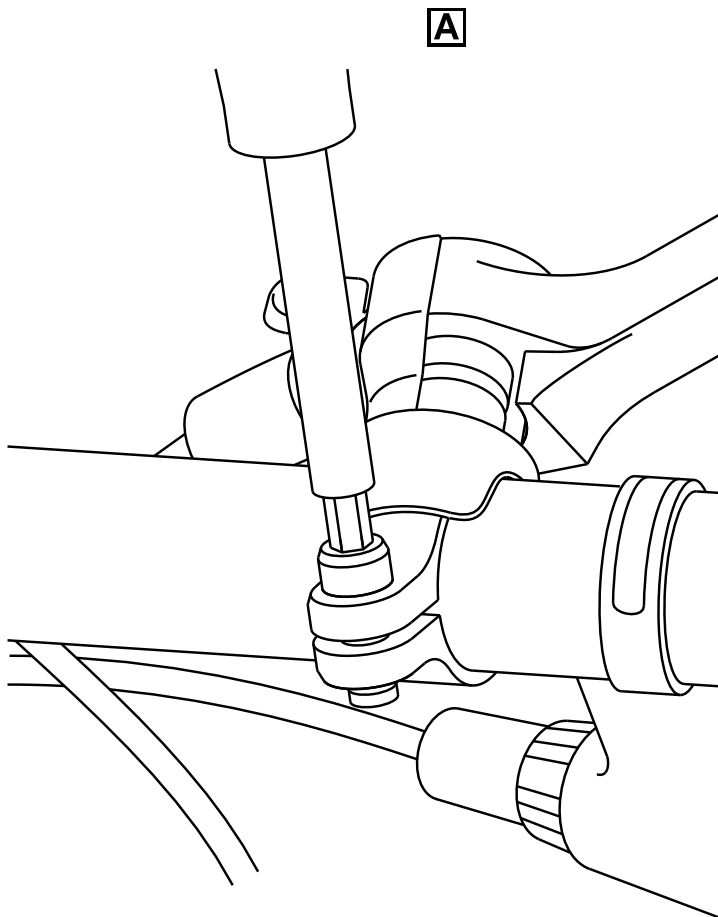
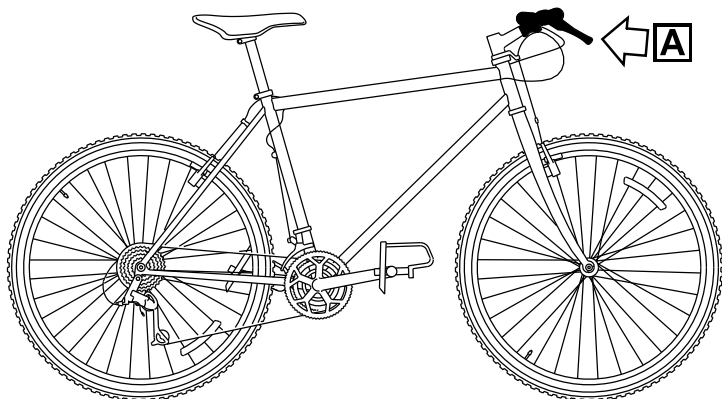
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Page FUNC-29**



ICN-C0419-S1000D0403-001-01

Figure FUNC-15 (Sheet 1 of 1) Loosen the nut

On modern models of this shifter, there is a clamp bolt that holds the shifter in its position (refer to [Fig FUNC-16](#)). The user can loosen the clamp bolt with an applicable tool. This lets the shifter release the handlebar.



ICN-C0419-S1000D0404-001-01

Figure FUNC-16 (Sheet 1 of 1) Loosen the shifter clamp bolt

End of S1000DBIKE-AAA-DA5-30-00-00AA-041A-A
End of DESCRIPTION OF FUNCTION

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Technical description

S1000DBIKE-AAA-D00-00-00-00AA-042A-A

1. Functional description of a bicycle

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

| | |
|-----------------|---|
| Frame | The frame is the skeleton of the bicycle. Refer to S1000DBIKE-AAA-DA3-00-00-00AA-041A-A for a functional description of the frame system. |
| Wheel | The wheel is the point of contact between the bicycle and the road for the bicycle to have movement. Refer to S1000DBIKE-AAA-DA0-00-00-00AA-041A-A for a functional description of the wheel. |
| Spokes | The spokes are thick wires with tension applied that connect the hub to the rim. You can adjust the tension with the nipple on the rim side. |
| Hub | The hub attaches to the center of the wheel where the axle and the bearings are. |
| Metal rim | The metal rim is a metal ring that has a U-shaped cross section to hold the spokes on the inner side and the tire on the outer side. |
| Seat | The seat, which is also known as the "saddle", is used as the support platform for the person to sit on the bicycle. |
| Seat post | The seat post is used as a support post for the seat and to change the height of the seat for the rider. |
| Handle bar | The handle bar is a horizontal bar with handles on each end. The handle bar is a steering mechanism that the rider uses to change the direction of the bicycle. The brake levers are also on the handle bar. Refer to S1000DBIKE-AAA-DA2-20-00-00AA-720A-A for information on how to install the handle bar. Refer to S1000DBIKE-AAA-DA2-20-00-00AA-520A-A for information on removing the handlebar. |
| Handle bar stem | The handle bar stem (the stem) attaches the handle bar to the steering tube. Refer to S1000DBIKE-AAA-DA2-10-00-00AA-720A-A for information on how to install a stem. Refer to S1000DBIKE-AAA-DA2-10-00-00AA-520A-A for information on how to remove the stem. |
| Brake levers | When you operate the brake lever, the brake pads move against the wheel to decrease the speed. The brake lever on the left side operates the front brake. The brake lever on the right side operates the rear brake. |
| Brakes | When you operate the brakes, the brake pad moves against the wheel to decrease the speed of the bicycle. Refer to S1000DBIKE-AAA-DA1-00-00-00AA-041A-A for a description of the braking system. |
| Shifters | The shifters are the mechanisms that you use to change the gears on the bicycle. There are 7 different types of shifters that have been developed over the years, but they all have the same functionality. When you operate the shifters, they pull the control cable to move the derailleur towards a larger diameter chain ring. The shifters can also loosen the cable to let the derailleur move towards a smaller diameter chain ring. Refer to |

[S1000DBIKE-AAA-DA5-30-00-00AA-041A-A](#) for a functional description of the shifters.

Crank The crank moves the power to the chain rings when the pedals operate.

Pedals The pedals move the force of movement from the feet to the cranks.

Chain The chain moves the power from the chain rings to the cogs on the freewheel. Refer to [S1000DBIKE-AAA-DA4-10-00-00AA-251B-A](#) for the procedure on how to clean the chain.

Gears The gears have different mechanisms that function together to change the speed of the bicycle. These mechanisms include:

- the sprockets
- the chain
- the derailleur

Refer to [S1000DBIKE-AAA-DA5-00-00-00AA-041A-A](#) for a functional description of the gear system.

Chain rings The chain rings (also known as the "chain wheel") pull on the chain when the cranks turn.

Derailleur A derailleur moves the chain from one sprocket to another to change the gears. There are two different types of derailleur, the front and the rear. The highest ratio (highest gear) is when the chain is on the largest sprocket on the front and the smallest at the rear. To get the lowest gear, the smallest sprocket is at the front and the largest at the rear. Refer to [S1000DBIKE-AAA-DA5-10-00-00AA-041A-A](#) for a functional description of the derailleur system.

End of S1000DBIKE-AAA-D00-00-00-00AA-042A-A

End of TECHNICAL DESCRIPTION

Diagrams and schematics

S1000DBIKE-AAA-D00-00-00-00AA-050A-A

1. Diagrams and schematics

A. Diagrams and schematics go here...

End of S1000DBIKE-AAA-D00-00-00-00AA-050A-A
End of DIAGRAMS AND SCHEMATICS
End of FUNCTIONAL AND TECHNICAL DESCRIPTIONS

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Maintenance and servicing

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Task sets

Table TS-1 Support equipment

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|-------------------------|--------------------------|-------|----------|---------|
| (1) Specialist toolset | BSK-TLST-001 | KZ666 | 1 EA | |
| (2) Tire lever | BSK-TLST-001-04 | KZ666 | 1 EA | |
| (3) Tire pressure guage | BSK-TLST-001-01 | KZ666 | 1 EA | |

Table TS-2 Consumables, materials and expendables

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------|--------------------------|-----|----------|---------|
| None | | | | |

Table TS-3 Spares

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------|--------------------------|-------|----------|---------|
| (1) Inner tube | IT-001 | KT222 | 1 EA | |
| (2) Tire | TIRES-010101 | KT666 | 1 EA | |

S1000DBIKE-AAA-DA0-10-10-00AA-921A-A

Table TS-4 Required conditions

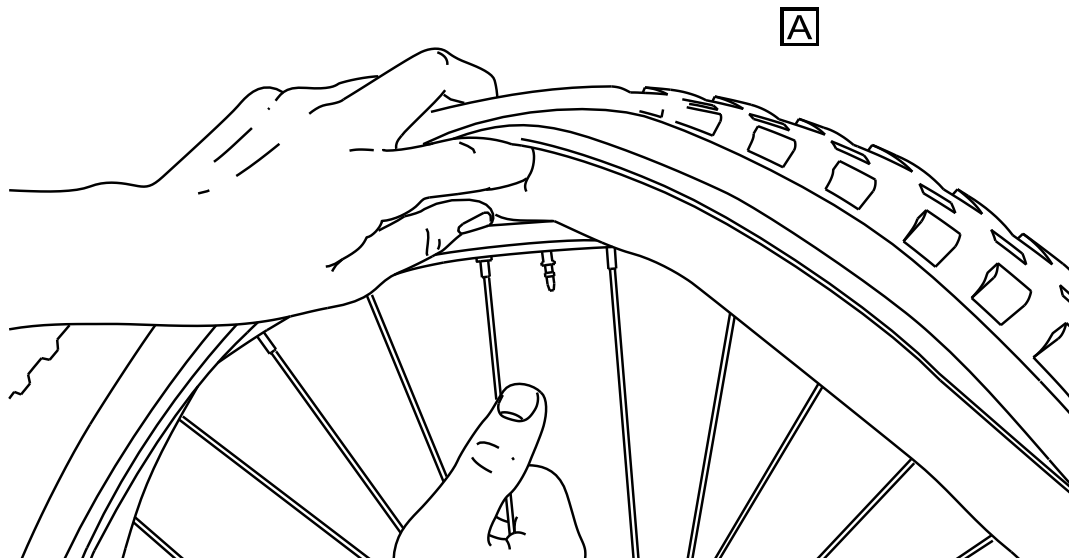
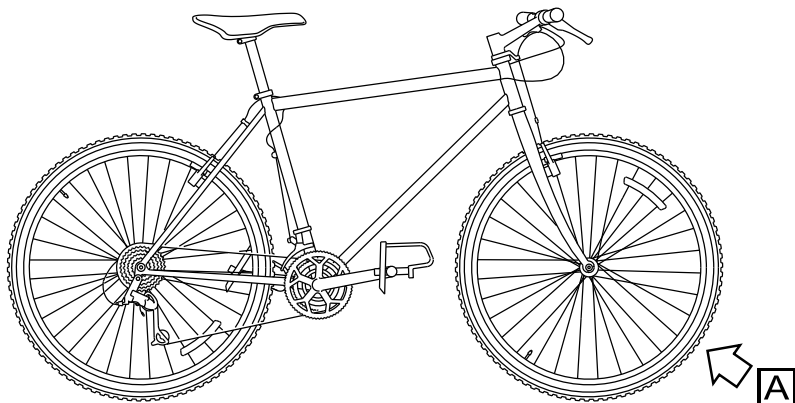
| Action/Condition | Data module/Technical publication |
|----------------------|--|
| The tire is removed. | S1000DBIKE-AAA-DA0-10-20-00AA-215A-A |

CAUTION

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

1. Inner-tube

- A. Remove the old inner-tube.



ICN-C0419-S1000D0369-001-01

Figure TS-1 (Sheet 1 of 1) Removing the inner tube

- B. Install the new [Spare \(1\) \(Inner tube\)](#).

Table TS-5 Requirements after job completion

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

End of S1000DBIKE-AAA-DA0-10-10-00AA-921A-A

S1000DBIKE-AAA-DA0-10-20-00AA-921A-A

2. Tire

- A. Lift and turn the bicycle and make sure the bicycle is held safely in this position.
- B. Use a standard wrench from the [Tool \(1\) \(Specialist toolset\)](#) and loosen the brake caliper.
- C. Remove the axle bolt.
- D. Remove the wheel.
- E. Deflate the tire.
- F. Use the [Tool \(2\) \(Tire lever\)](#) from the [Tool \(1\) \(Specialist toolset\)](#) and remove the old tire from the wheel.
- G. Use the [Tool \(2\) \(Tire lever\)](#) from the [Tool \(1\) \(Specialist toolset\)](#) and attach the new [Spare \(2\) \(Tire\)](#) to the wheel. Refer to [S1000DBIKE-AAA-DA0-00-00-00AA-041A-A](#)
- H. Inflate the tire (refer to [S1000DBIKE-AAA-DA0-10-20-00AA-215A-A](#)).
- I. Install the wheel.
- J. Tighten the axle bolt.
- K. Tighten the brake caliper.

Table TS-6 Requirements after job completion

| 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 |

End of S1000DBIKE-AAA-DA0-10-20-00AA-921A-A

End of TASK SETS

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Servicing

Table SERVC-1 Support equipment

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------------|--------------------------|-------|----------------|---------|
| (1) Specialist toolset | BSK-TLST-001 | KZ666 | 1 EA | |
| (2) Foot pump | BSK-TLST-001-05 | KZ666 | 1 EA | |
| (3) Tire pressure gauge | BSK-TLST-001-01 | KZ666 | 1 EA | |
| (4) Clean dry cloth | BSK-TLST-001-12 | KZ666 | 1 EA | |
| (5) Floor covering | PPP-001 | KK999 | 1 pack | |
| (6) Water hose | BSK-TLST-001-09 | KZ666 | 1 EA | |
| (7) Stiff bristle brush | BSK-TLST-001-02 | KZ666 | 1 EA | |
| (8) Sponge | BSK-TLST-001-11 | KZ666 | 1 EA | |
| (9) Water hose | BSK-TLST-001-09 | KZ666 | 1 EA | |
| (10) Stiff bristle brush | BSK-TLST-001-02 | KZ666 | 1 EA | |
| (11) Sponge | BSK-TLST-001-11 | KZ666 | 1 EA | |
| (12) Stiff bristle brush | BSK-TLST-001-02 | KZ666 | 1 EA | |
| (13) Chain cleaning fluid | LL-003 | KZ222 | As required | |
| (14) Chain cleaning tool | BSK-TLST-001-03 | KZ666 | 1 EA | |

Table SERVC-2 Consumables, materials and expendables

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------------------|--------------------------|-------|----------------|---------|
| (1) ACME sticky lube 52B | LL-007 | KZ222 | 1 dl | |
| (2) AECMA Heavy duty Oil 1988 | HD1988 | B6865 | 1 dl | |
| (3) ACME super 45 Agent | LL-004 | KZ222 | 1 L | |
| (4) ACME Middling Detergent 69 | BSK-TLST-023-14 | KZ666 | 1 L | |
| (5) BoeBus DeLux Detergent No.6 | BSK-TLST-001-15 | KZ666 | 1 L | |
| (6) ACME super 45 Agent | LL-004 | KZ222 | 1 L | |
| (7) ACME Middling Detergent 69 | BSK-TLST-023-14 | KZ666 | 1 L | |
| (8) BoeBus DeLux Detergent No.6 | BSK-TLST-001-15 | KZ666 | 1 L | |
| (9) Rubbing alcohol | LL-002 | KZ222 | As required | |

Table SERVC-2 Consumables, materials and expendables (Continued)

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|------------------------|--------------------------|-------|-------------|---------|
| (10) Floor covering | PPP-001 | KK999 | 1 pack | |
| (11) General lubricant | LL-001 | KZ222 | As required | |

Table SERVC-3 Spares

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------|--------------------------|-----|----------|---------|
| None | | | | |

S1000DBIKE-AAA-DA0-10-20-00AA-215A-A

1. Tire

- A. Ensure bicycle is on the repair stand.
- B. Locate the deflated tire.
- C. Attach the outlet valve of the [Tool \(2\) \(Foot pump\)](#), from the [Tool \(1\) \(Specialist toolset\)](#), to the valve of the deflated tire.
- D. Inflate the tire.
 - (1) Operate the foot pump to pump air into the tire.
 - (2) Check tire pressure. Refer to [S1000DBIKE-AAA-DA0-10-20-00AA-362B-A](#)

End of S1000DBIKE-AAA-DA0-10-20-00AA-215A-A

S1000DBIKE-AAA-DA4-10-00-00AA-241A-A

Table SERVC-4 Required conditions

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

WARNING

[Supply \(1\) \(Wet lube\)](#) 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.

APPLIC: Dry conditions

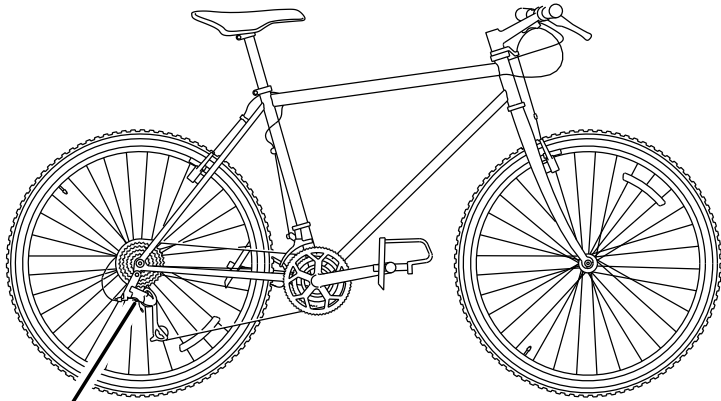
WARNING

Supply (2) (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.

2. Chain

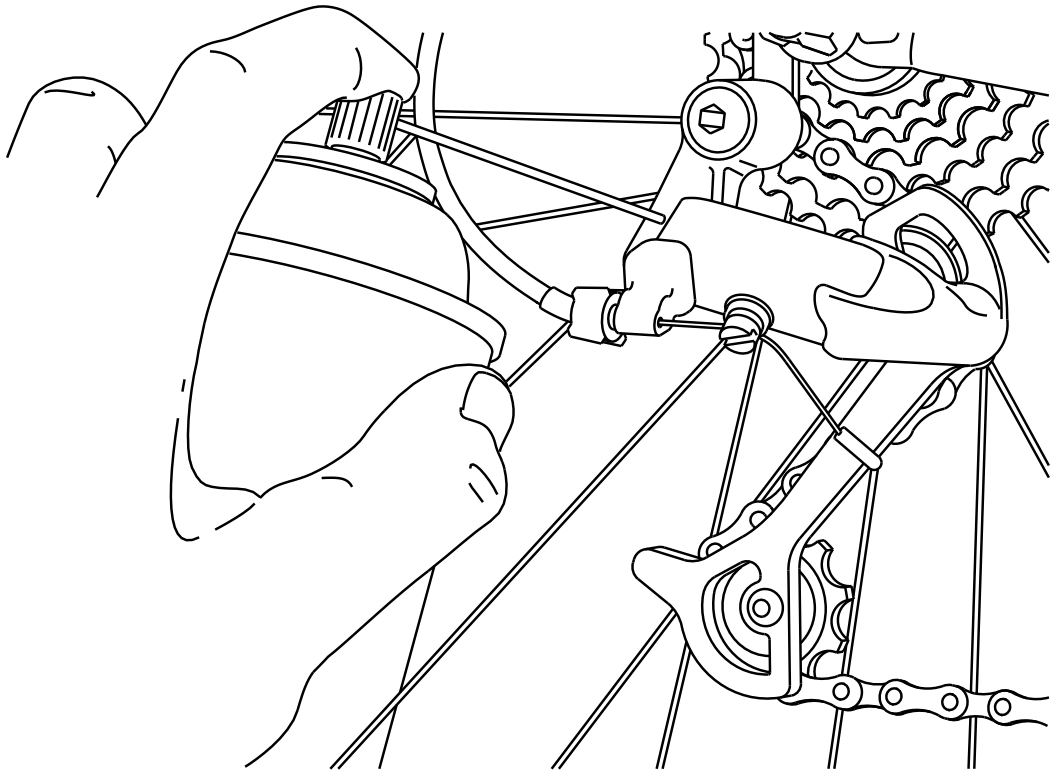
A. Apply the penetrating lubricant into all the parts of the bike that move

- (1) Apply **Supply (1) (Wet lube)** to:
- derailleur pivots (refer to [Fig SERVC-1](#))
 - derailleur tension (refer to [Fig SERVC-2](#))



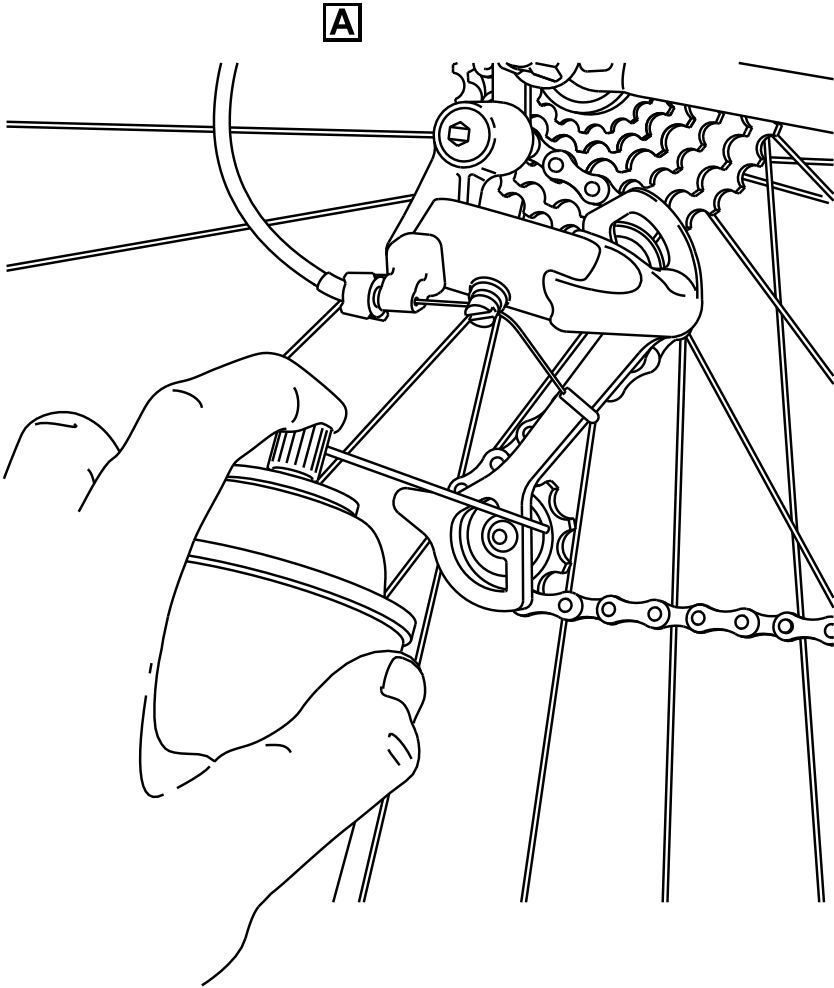
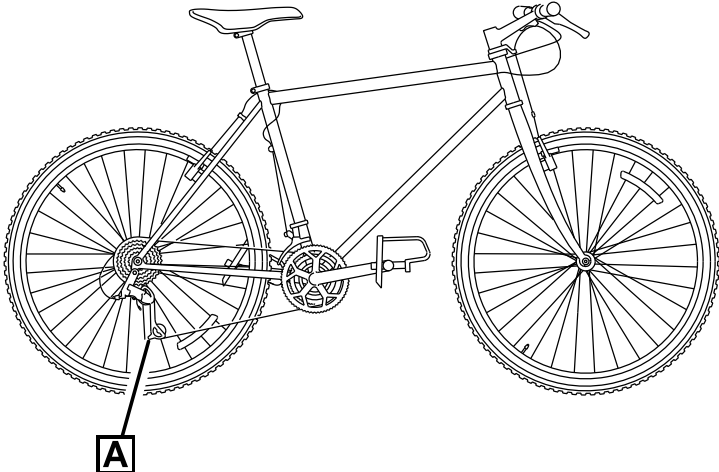
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A



ICN-C0419-S1000D0398-001-01

Figure SERVC-1 (Sheet 1 of 1) Derailleur pivots



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ICN-C0419-S1000D0399-001-01

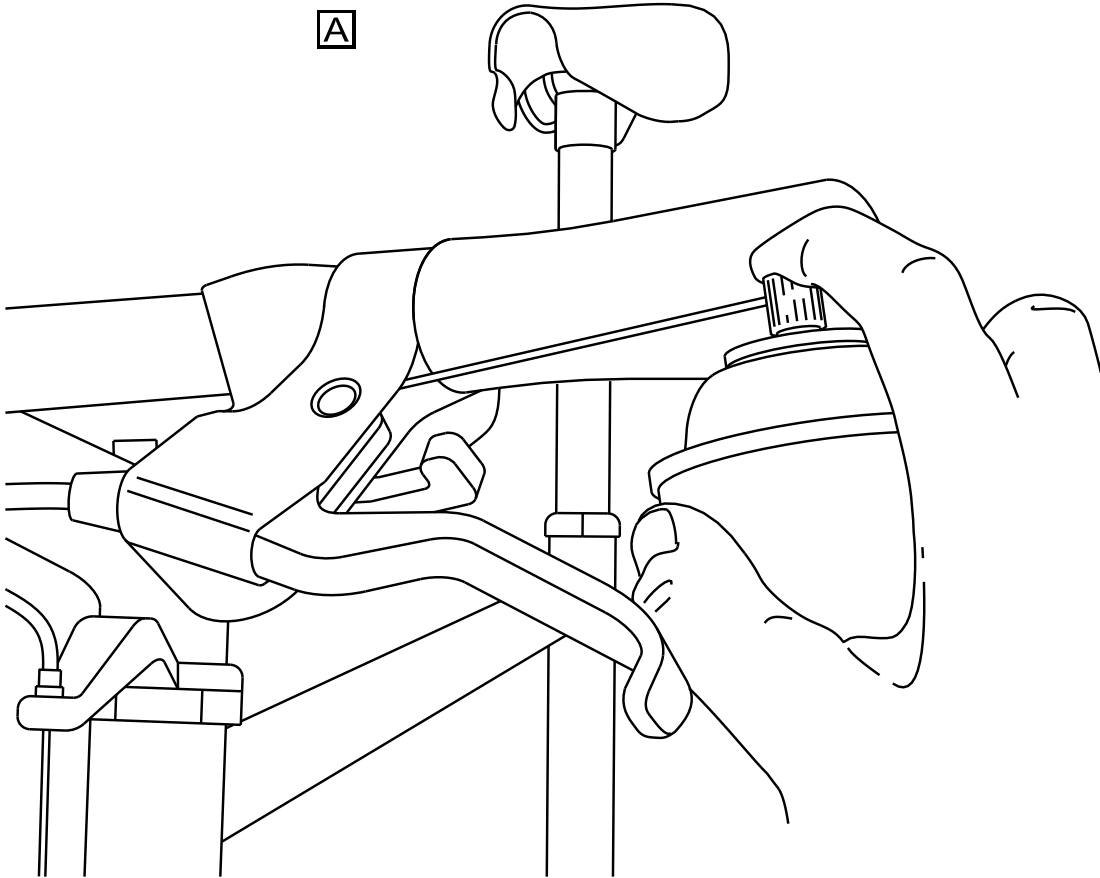
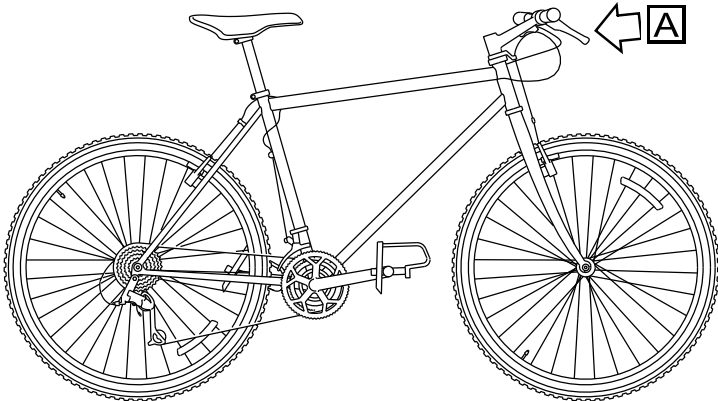
Figure SERVC-2 (Sheet 1 of 1) Derailleur tension

(2) Apply [Supply \(1\) \(Wet lube\)](#) to:

- brake lever pivots (refer to [Fig SERVC-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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ICN-C0419-S1000D0383-001-01

Figure SERVC-3 (Sheet 1 of 1) Brake lever pivots

23-10-10

SERVICING
2016-12-31
Page SERVC-7

B. Lubricate the chain

- (1) Make sure the chain is clean and dry.
- (2) Put the [Tool \(5\) \(Floor covering\)](#) on the floor below the chain.

APPLIC: Dry conditions

- (3) [ALTS] Apply the [Supply \(2\) \(Dry lube\)](#) to each roller of the chain (refer to [Fig SERVC-4](#)) but only apply a small quantity.

APPLIC: Wet conditions

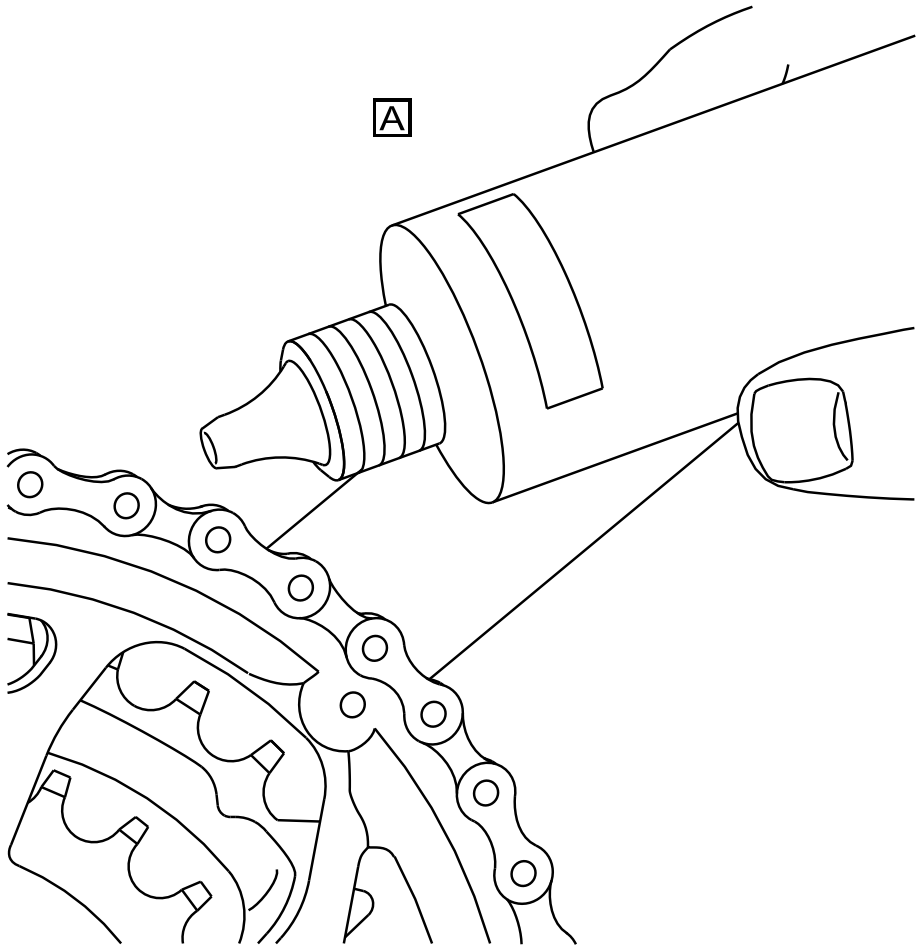
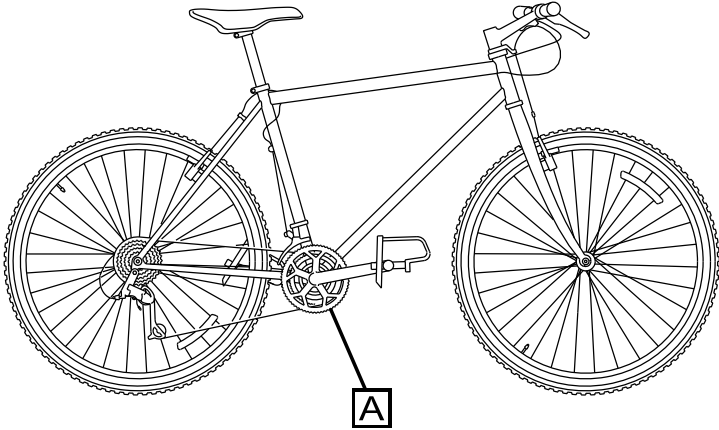
- (3) [ALTS] Apply the [Supply \(1\) \(Wet lube\)](#) to each roller of the chain (refer to [Fig SERVC-4](#)) but only apply a small quantity.

- (4) Hold the nozzle of the container above the front of the chain ring and slowly turn the cranks rearwards.

CAUTION

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

- (5) Let the lubricant soak into chain before you clean the unwanted lubricant from the chain.



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ICN-C0419-S1000D0395-001-01

Figure SERVC-4 (Sheet 1 of 1) Lubricate the chain

23-10-10

SERVICING
2016-12-31
Page SERVC-9

C. Check lubricated parts

- (1) Do a check of the rear wheel rim and clean the unwanted lubricant if necessary.
- (2) 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.B.](#)).
- (3) Do a check of the remaining lubricated parts and clean the unwanted lubricant with a [Tool \(4\) \(Clean dry cloth\)](#).

End of S1000DBIKE-AAA-DA4-10-00-00AA-241A-A

S1000DBIKE-AAA-D00-00-00-00AA-258A-A

3. The International Bikers' Association (IBA)

- A. According to The International Bikers' Association (IBA) code of honor you are kindly requested to drive a properly maintained bicycle, which means the bike has to be regularly cleaned.

Table SERVC-5 Required conditions

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

WARNING

Do not get [Supply \(4\) \(Detergent A\)](#) into your eyes. If it gets into your eyes, wash them immediately in clean warm water.

APPLIC: Mountain bicycle Brook trekker Mk9

WARNING

Do not get [Supply \(5\) \(Detergent C\)](#) into your eyes. If it gets into your eyes, wash them immediately in clean warm water.

CAUTION

Do not use a [Tool \(6\) \(Water hose\)](#) 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.

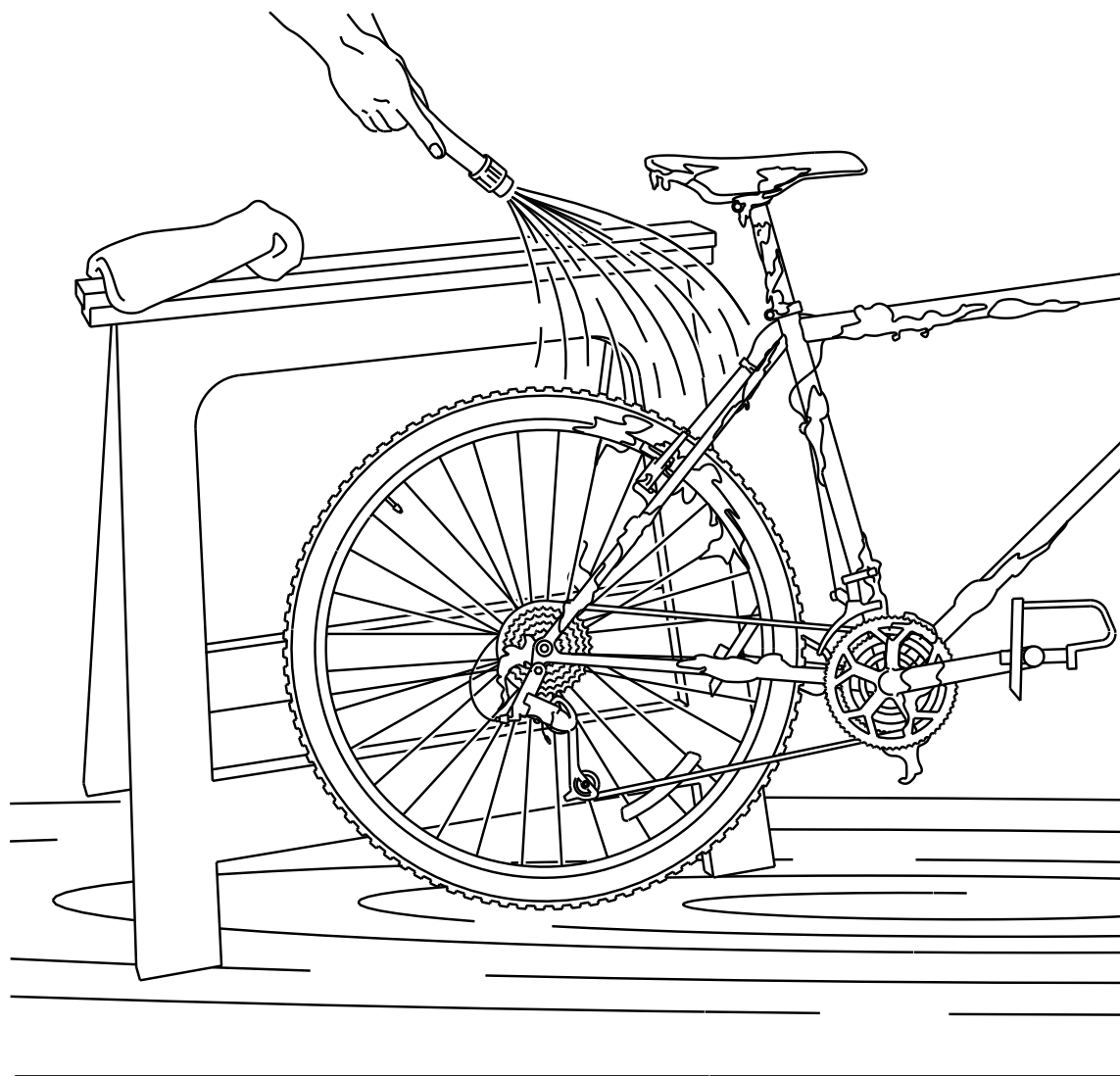
APPLIC: Mountain bicycle Brook trekker Mk9

CAUTION

Apply [Supply \(5\) \(Detergent C\)](#) in accordance with the instruction on the container. The substance may cause damage to the Bike paint if it is not applied correctly.

4. Clean the bicycle

- A. Clean the bicycle with water to remove all dirt. Refer to [Fig SERVC-5](#).



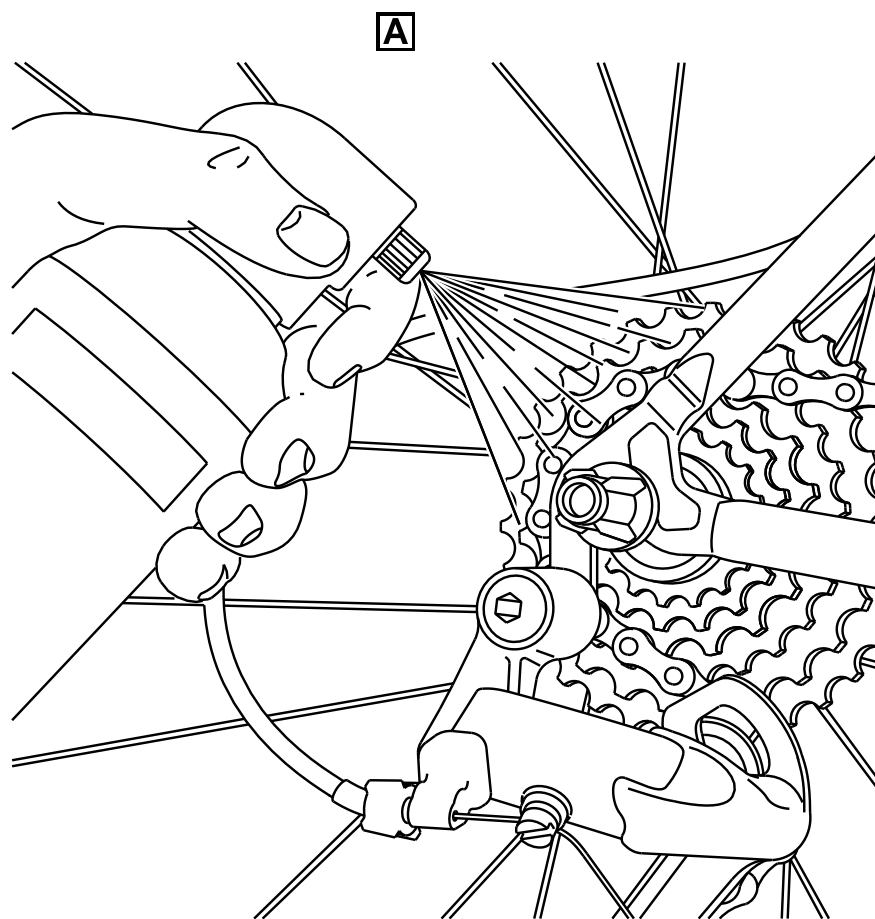
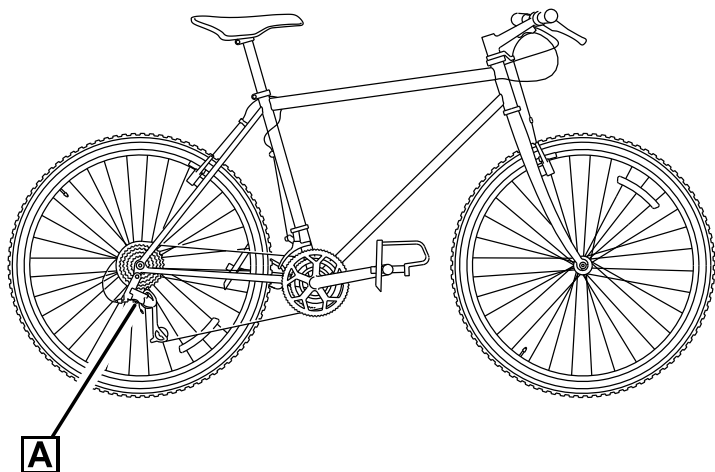
ICN-C0419-S1000D0359-001-01

Figure SERVC-5 (Sheet 1 of 1) Cleaning the bike

- B. Use a [Tool \(7\) \(Stiff bristle brush\)](#) to get access to areas that are not easy to clean. These are the shift levers, the knobby tires, and the brakes.
- C. Clean the caked grime from the chain and the sprockets with a screwdriver that has a small blade.
- D. Remove the grease from the freewheel assembly with the [Supply \(3\) \(Degreasing agent\)](#) as shown in [Fig SERVC-6](#).

Use a brush to remove the grease from these parts:

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



ICN-C0419-S1000D0400-001-01

Figure SERVC-6 (Sheet 1 of 1) Degreasing the freehub

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

Note

If necessary, do the flush procedure again.

APPLIC: Mountain bicycle Mountain storm Mk1

F. Wash the Bike

- (1) Soak the [Tool \(8\) \(Sponge\)](#) into [Supply \(4\) \(Detergent A\)](#) and water.
- (2) Clean the bicycle with the soaked sponge.
- (3) Flush the bicycle and make sure that all [Supply \(4\) \(Detergent A\)](#) is removed.
- (4) Move the bicycle up and down on its tires to remove all water.

APPLIC: Mountain bicycle Brook trekker Mk9

G. Wash the Bike

- (1) Soak the [Tool \(8\) \(Sponge\)](#) into [Supply \(5\) \(Detergent C\)](#) and water.
- (2) Clean the bicycle with the soaked sponge.
- (3) Soak the [Tool \(8\) \(Sponge\)](#) into [Supply \(4\) \(Detergent A\)](#) and water.
- (4) Fully clean the bicycle with the soaked sponge.
- (5) Flush the bicycle to make sure that all detergents are removed.
- (6) Move the bicycle up and down on its tires to remove all water.

H. Lubricate the bicycle. Refer to [S1000DBIKE-AAA-DA4-10-00-00AA-241A-A](#).

Table SERVC-6 Requirements after job completion

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

S1000DBIKE-AAA-D00-00-00-00AA-258B-A

End of S1000DBIKE-AAA-D00-00-00-00AA-258A-A

5. The International Bikers' Association (IBA)

A. According to The International Bikers' Association (IBA) code of honor you are kindly requested to drive a properly maintained bicycle, which means the bike has to be regularly cleaned.

Table SERVC-7 Required conditions

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

WARNING

Do not get **Supply (7) (Detergent A)** into your eyes. If it gets into your eyes, wash them immediately in clean warm water.

APPLIC: Mountain bicycle Brook trekker Mk9

WARNING

Do not get **Supply (8) (Detergent C)** into your eyes. If it gets into your eyes, wash them immediately in clean warm water.

CAUTION

Do not use a **Tool (9) (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.

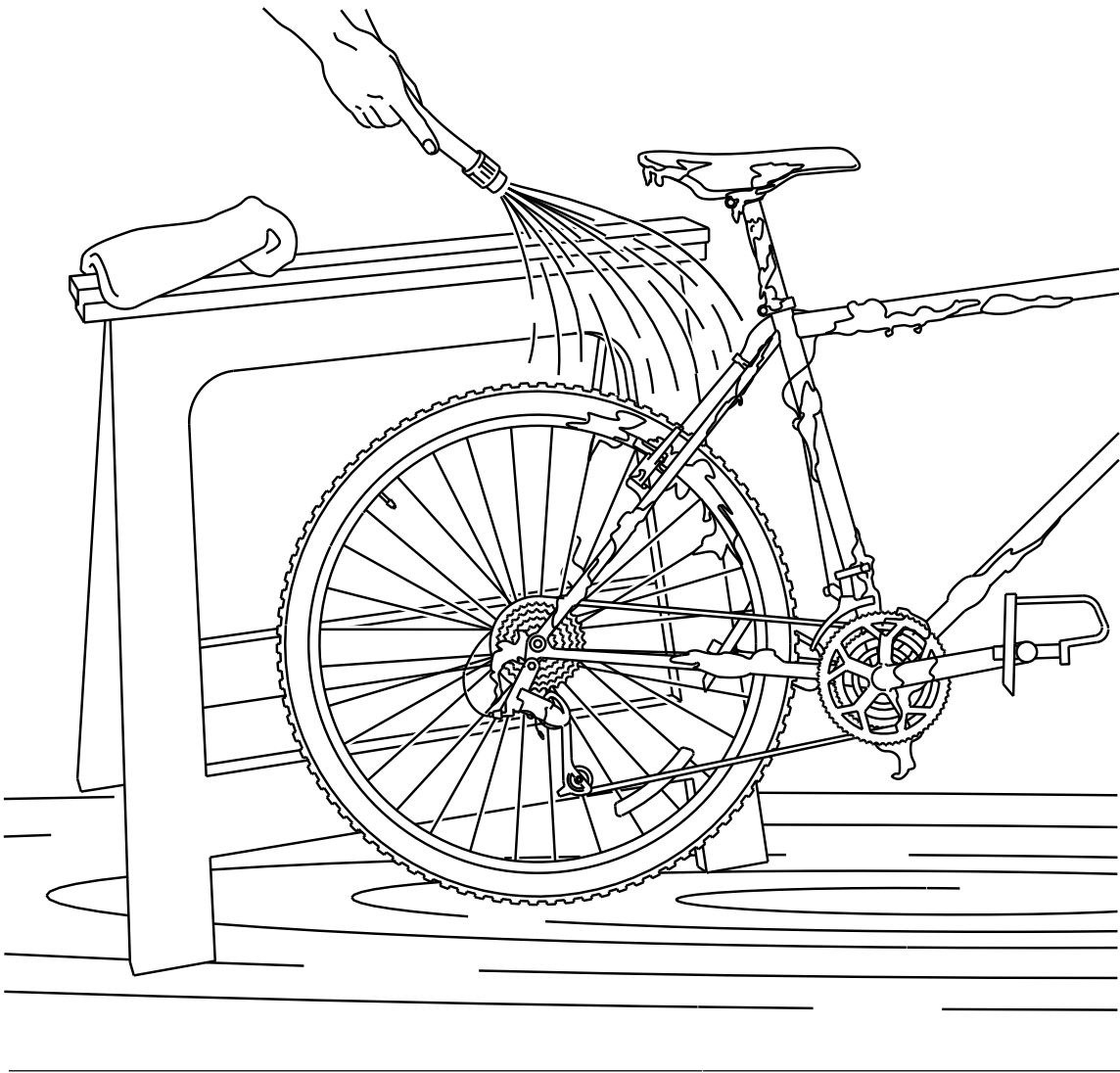
APPLIC: Mountain bicycle Brook trekker Mk9

CAUTION

Apply **Supply (8) (Detergent C)** in accordance with the instruction on the container. The substance may cause damage to the Bike paint if it is not applied correctly.

6. Clean the bicycle

- A. Clean the bicycle with water to remove all dirt. Refer to [Fig SERVC-7](#).



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ICN-C0419-S1000D0359-001-01

Figure SERVC-7 (Sheet 1 of 1) Cleaning the bike

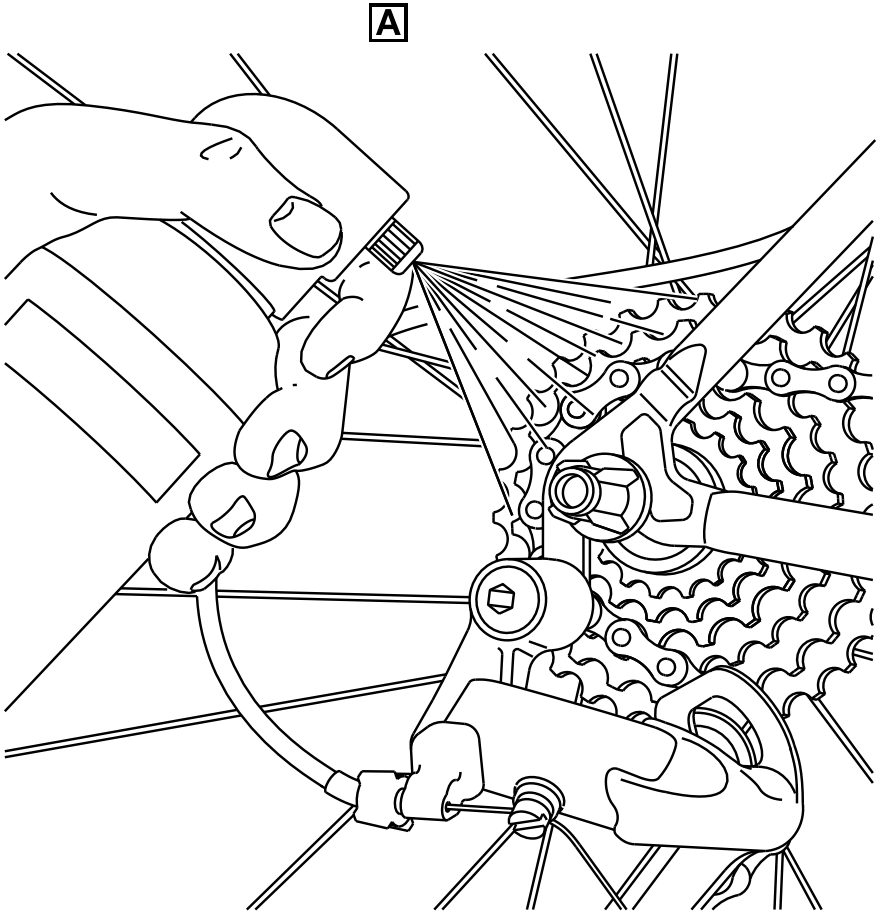
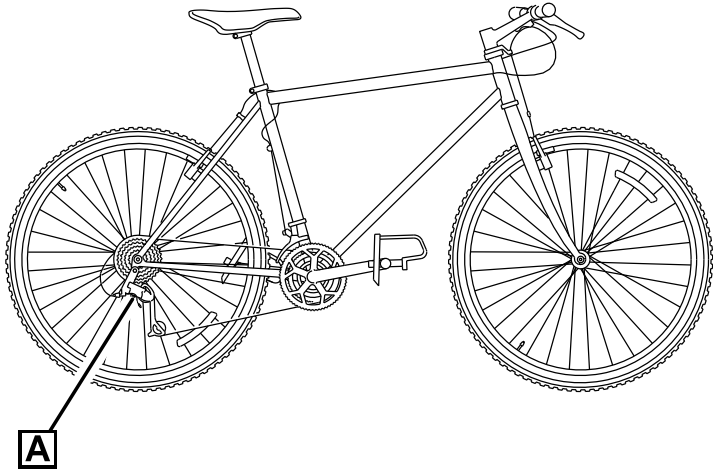
23-10-10

SERVICING
2016-12-31
Page SERVC-17

- B. Use a [Tool \(10\) \(Stiff bristle brush\)](#) to get access to areas that are not easy to clean. These are the shift levers, the knobby tires, and the brakes.
- C. Clean the caked grime from the chain and the sprockets with a screwdriver that has a small blade.
- D. Remove the grease from the freewheel assembly with the [Supply \(6\) \(Degreasing agent\)](#) as shown in [Fig SERVC-8](#).

Use a brush to remove the grease from these parts:

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



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ICN-C0419-S1000D0400-001-01

Figure SERVC-8 (Sheet 1 of 1) Degreasing the freehub

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

Note

If necessary, do the flush procedure again.

APPLIC: Mountain bicycle Mountain storm Mk1

F. [ALTS] Wash the Bike

- (1) [ALTS] Soak the [Tool \(11\) \(Sponge\)](#) into [Supply \(7\) \(Detergent A\)](#) and water.
- (2) [ALTS] Clean the bicycle with the soaked sponge.
- (3) [ALTS] Flush the bicycle and make sure that all [Supply \(7\) \(Detergent A\)](#) is removed.
- (4) [ALTS] Move the bicycle up and down on its tires to remove all water.

APPLIC: Mountain bicycle Brook trekker Mk9

F. [ALTS] Wash the Bike

- (1) [ALTS] Soak the [Tool \(11\) \(Sponge\)](#) into [Supply \(8\) \(Detergent C\)](#) and water.
- (2) [ALTS] Clean the bicycle with the soaked sponge.
- (3) [ALTS] Soak the [Tool \(11\) \(Sponge\)](#) into [Supply \(7\) \(Detergent A\)](#) and water.
- (4) [ALTS] Fully clean the bicycle with the soaked sponge.
- (5) [ALTS] Flush the bicycle to make sure that all detergents are removed.
- (6) [ALTS] Move the bicycle up and down on its tires to remove all water.

G. Lubricate the bicycle. Refer to [S1000DBIKE-AAA-DA4-10-00-00AA-241A-A](#).

Table SERVC-8 Requirements after job completion

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

End of S1000DBIKE-AAA-D00-00-00-00AA-258B-A

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

7. Clean the brake pads

- A. Do a visual inspection of the brakes as given in the pre-ride checks (refer to [S1000DBIKE-AAA-D00-00-00-00AA-121A-A](#)).
- B. Clean the brake pads.
 - (1) Find each of the brake pads.
 - (2) Apply a thin layer of the [Supply \(9\) \(Rubbing alcohol\)](#) on each of the brake pads.

-
- (3) Rub the surface until you have applied the [Supply \(9\) \(Rubbing alcohol\)](#) to the complete surface of the pad.
 - (4) Remove the unwanted alcohol.

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

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

8. Clean the chain

A. 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](#)).

B. Prepare the cleaning area.

- (1) Put the [Supply \(10\) \(Floor covering\)](#) on a satisfactory floor area.
- (2) Put the bicycle on the floor covering.

C. Clean debris from the chain.

- (1) Use the [Tool \(12\) \(Stiff bristle brush\)](#) and loosen as much unwanted material as possible.
- (2) Make sure that you remove all the unwanted material from the chain.

D. Clean the chain.

- (1) Open the [Tool \(14\) \(Chain cleaning tool\)](#) and fill with the [Tool \(13\) \(Chain cleaning fluid\)](#).
- (2) Move the chain to the middle chainring and the middle sprocket at the rear.
- (3) Put the chain in the chain guides of the chain cleaning tool and lock the tool on the chain.
- (4) Hold the tool with the left hand and slowly turn the rearwards with the right hand.
- (5) Press the button on the cleaning tool to make sure that cleaning fluid flows until the tool is empty.
- (6) If necessary, remove the unwanted chain cleaning fluid.

E. Lubricate the chain.

- (1) Use the [Supply \(11\) \(General lubricant\)](#) and lubricate the chain.
- (2) Unlock and remove the cleaning tool.
- (3) If necessary, remove the unwanted lubricant.

Table SERVC-9 Requirements after job completion

Action/Condition

Data module/Technical publication

Move the bicycle to its storage area and remove the floor covering.

End of S1000DBIKE-AAA-DA4-10-00-00AA-251B-A

End of SERVICING

Examination, test, checks, and fault isolation

Table TEST-1 Support equipment

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|-------------------------|--------------------------|-------|----------|---------|
| (1) Test stand | BSK-TLST-999-01 | KZ666 | 1 EA | |
| (2) Tire pressure gauge | BSK-TLST-001-01 | KZ666 | 1 EA | |
| (3) Specialist toolset | BSK-TLST-001 | KZ666 | 1 EA | |
| (4) Tire pressure gauge | BSK-TLST-001-01 | KZ666 | 1 EA | |

Table TEST-2 Consumables, materials and expendables

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------|--------------------------|-----|----------|---------|
| None | | | | |

Table TEST-3 Spares

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------|--------------------------|-----|----------|---------|
| None | | | | |

S1000DBIKE-AAA-D00-00-00-00AA-330A-A

1. Test stand

- A. Ensure [Tool \(1\) \(Test stand\)](#) is level.
- B. Place bicycle on the test stand.
- C. Tight clamps until bicycle is securely attach to the test stand.

End of S1000DBIKE-AAA-D00-00-00-00AA-330A-A

S1000DBIKE-AAA-DA1-00-00-00AA-341A-A

2. Brake system manual test

- A. Put the bicycle in a vertical position.
- B. Hold the handle bars and push the bicycle forwards.
- C. Apply the brakes.
- D. Make sure that the wheels lock and the bicycle stops.

End of S1000DBIKE-AAA-DA1-00-00-00AA-341A-A

S1000DBIKE-AAA-D00-00-01-00AA-341A-A

3. Fork manual test

- A. Climb on the bicycle.
- B. Turn right and left several times.
- C. Ride forward the bicycle.
- D. Make sure that the wheels are stable.
- E. Push in the fork.
- F. Make sure that no oil or air is leaking out the fork.

End of S1000DBIKE-AAA-D00-00-01-00AA-341A-A

BRAKE-AAA-DA1-00-00-00AA-341A-A

4. Brake system manual test

- A. Put the bicycle in a vertical position.
- B. Hold the handle bars and push the bicycle forwards.
- C. Apply the brakes.
- D. Make sure that the wheels lock and the bicycle stops.

End of BRAKE-AAA-DA1-00-00-00AA-341A-A

S1000DBIKE-AAA-DA0-10-20-00AA-400A-A

Table TEST-4 Fault code NYCJD04

| Fault code | Fault description |
|------------|----------------------------------|
| NYCJD04 | Tire does not function correctly |

5. Front wheel test

- A. Use the tire pressure gauge ([Tool \(2\) \(Tire pressure gauge\)](#)) to do a check of the pressure
- B. What is the tire pressure reading?
 - (1) More than 2700 hPa [Step 5.C.](#)
 - (2) Between 100 hPa and 2700 hPa [Step 5.D.](#)
 - (3) Less than 100 hPa [Step 5.E.](#)
- C. Deflate the tire until the pressure is 2700 hPa
- D. Inflate the tire as given in [S1000DBIKE-AAA-DA0-10-20-00AA-215A-A](#)

- E. To do a check of the tire for damage
- F. Is there damage to the tire?
 - (1) Yes: Go to [Step 5.G.](#)
 - (2) No: Go to [Step 5.H.](#)
- G. Replace the tire (refer to [S1000DBIKE-AAA-DA0-10-20-00AA-921A-A](#))
- H. Replace the inner-tube (refer to [S1000DBIKE-AAA-DA0-10-10-00AA-921A-A](#))

End of S1000DBIKE-AAA-DA0-10-20-00AA-400A-A

S1000DBIKE-AAA-DA0-10-20-00AA-362B-A

6. Tire check pressure

- A. Locate the valve stem of tire.
- B. Use the tire pressure gauge ([Tool \(4\) \(Tire pressure gauge\)](#)) to check the tire pressure.
- C. Tire pressure should be between 2000 hPa to 2700 hPa.
 - (1) If tire pressure is less than 2000 hPa inflate tire. Refer to [S1000DBIKE-AAA-DA0-10-20-00AA-215A-A](#)
 - (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](#)

End of S1000DBIKE-AAA-DA0-10-20-00AA-362B-A
End of EXAMINATION, TEST, CHECKS, AND FAULT ISOLATION

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Disassemble

Table DIS-1 Support equipment

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------------|--------------------------|-------|----------|---------|
| (1) Specialist toolset | BSK-TLST-001 | KZ666 | 1 EA | |
| (2) Set of Allen wrenches | BSK-TLST-001-13 | KZ666 | 1 EA | |
| (3) Work stand | Stand-001 | KZ555 | 1 EA | |
| (4) Set of Allen wrenches | BSK-TLST-001-13 | KZ666 | 1 EA | |
| (5) Work stand | Stand-001 | KZ555 | 1 EA | |
| (6) Work stand | Stand-001 | Bikey | 1 EA | |

Table DIS-2 Consumables, materials and expendables

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------|--------------------------|-----|----------|---------|
| None | | | | |

Table DIS-3 Spares

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|------------------------|--------------------------|-------|----------|---------|
| (1) Brake cable hangar | BR-LVRS-002 | KT444 | 1 | |

S1000DBIKE-AAA-D00-00-01-00AA-520A-A

1. Fork remove procedures

- A. Remove the stem, refer to: [S1000DBIKE-AAA-DA2-10-00-00AA-520A-A](#)
- B. Remove the headset, refer to: [S1000DBIKE-AAA-DA2-30-00-00AA-520A-A](#)
- C. Push the fork downwards to remove it from the frame
- D. Put the frame on the floor

End of S1000DBIKE-AAA-D00-00-01-00AA-520A-A

S1000DBIKE-AAA-DA0-20-00-00AA-520A-A

2. Rear wheel remove procedures

- A. Hold the rear of the bicycle.
- B. Push the wheel forwards and down to disengage the chain from the sprocket.
- C. Turn the wheel to the side and lift it away from the frame.

D. Put the frame on the floor.

End of S1000DBIKE-AAA-DA0-20-00-00AA-520A-A

S1000DBIKE-AAA-DA0-30-00-00AA-520A-A

3. Front wheel remove procedures

- A. Hold the front of the bicycle.
- B. Use the ([Tool \(1\) \(Specialist toolset\)](#)) to disengage the fork from the chainring by pushing the wheel forwards and down.
- C. Lift the wheel away from the frame.
- D. Put the frame on the floor.

End of S1000DBIKE-AAA-DA0-30-00-00AA-520A-A

S1000DBIKE-AAA-DA1-20-00-00AA-520A-A

4. Front brake remove procedures

- A. Hold the front of the bicycle.
- B. Remove the front brake forwards.
- C. Put the frame on the floor.

End of S1000DBIKE-AAA-DA1-20-00-00AA-520A-A

S1000DBIKE-AAA-DA2-10-00-00AA-520A-A

Table DIS-4 Required conditions

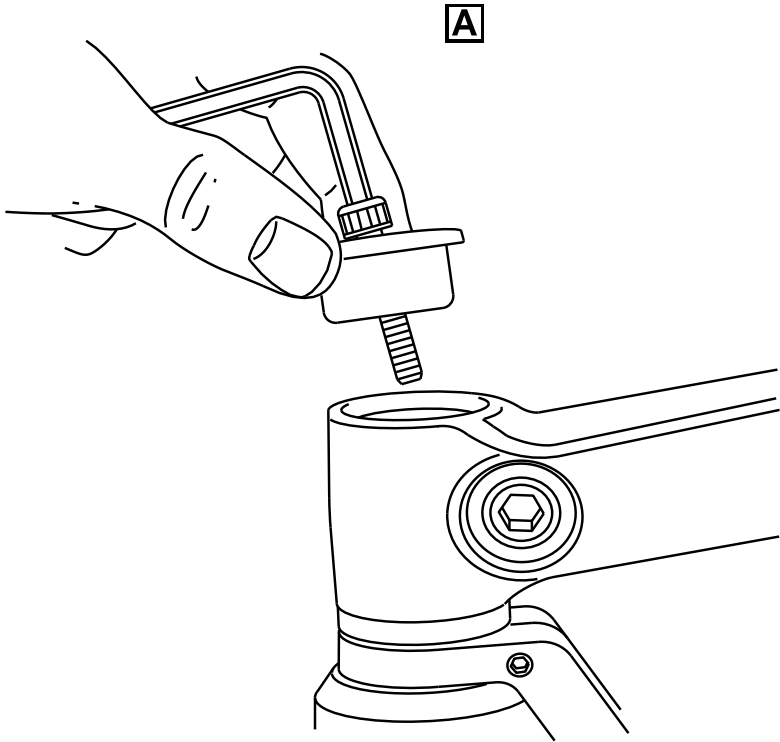
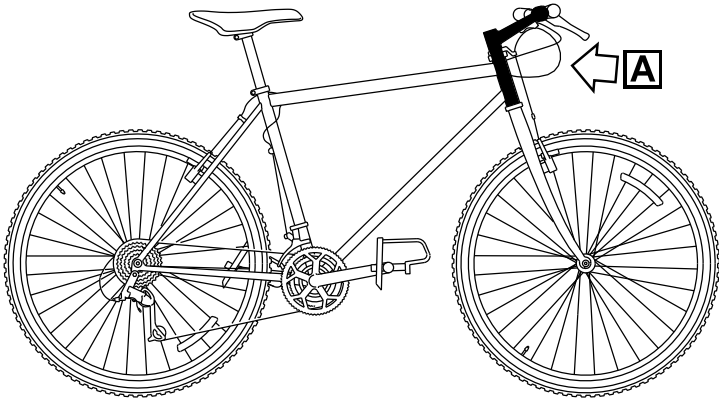
| Action/Condition | Data module/Technical publication |
|---|-----------------------------------|
| Safety the bicycle in a bicycle stand and hold the front wheel off the ground | |

Note 1

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

5. Stem remove procedures

- A. Remove the handlebar [S1000DBIKE-AAA-DA2-20-00-00AA-520A-A](#)
- B. Remove the stem.
 - (1) Remove the bolt in the center of the stem cap.



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ICN-C0419-S1000D0387-001-01

Figure DIS-1 (Sheet 1 of 1) Remove the bolt

23-10-10

DISASSEMBLE
2016-12-31
Page DIS-3

-
- (2) Loosen the stem clam bolt with a [Tool \(2\) \(Set of Allen wrenches\)](#).
 - (3) Remove the stem from the steerer tube.
 - (4) Note: It is not necessary to remove the handlebar if you remove the stem to get access to the headset.

End of S1000DBIKE-AAA-DA2-10-00-00AA-520A-A

S1000DBIKE-AAA-DA2-20-00-00AA-520A-A

Table DIS-5 Required conditions

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

WARNING

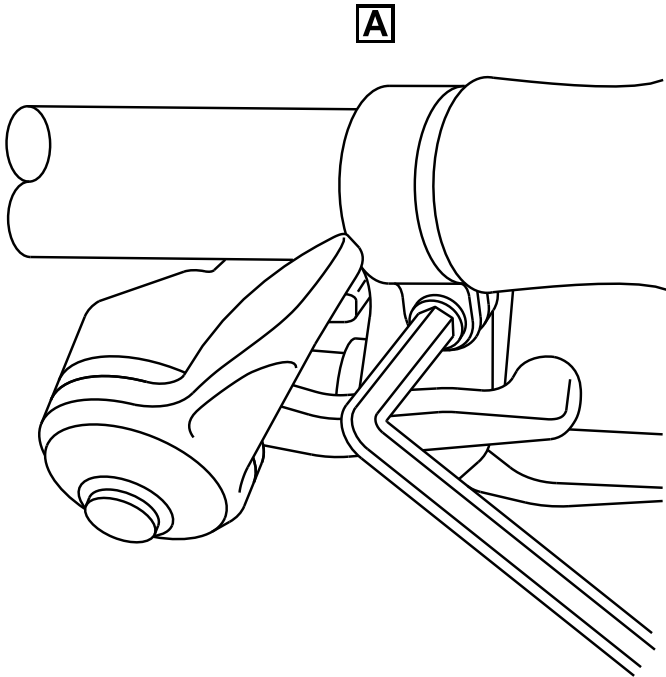
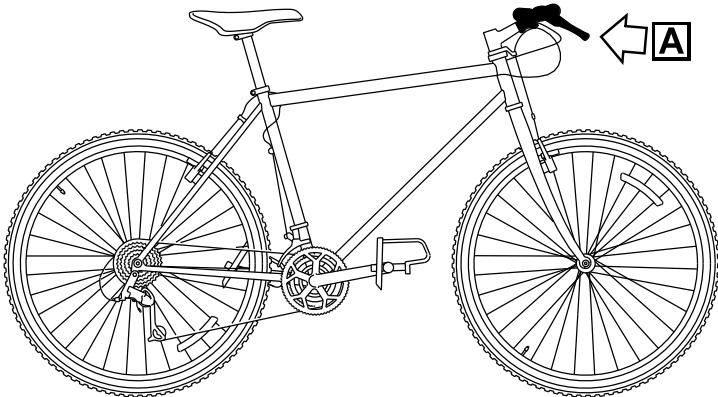
Do not ride a bicycle with no grips on the handlebar. This can cause the hands of the rider to slip.

6. Remove the grips

- A. Put a long thin screwdriver below the grip and apply water between the grip and the handle bar.
- B. Turn the grip forwards and rearwards to loosen it and then pull it off the end of the handlebar.

7. Remove the brake and the shift levers from the handlebars

- A. Loosen the clamp screw (refer to [Fig DIS-2](#)) which is behind or below the brake lever (as shown).



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ICN-C0419-S1000D0389-001-01

Figure DIS-2 (Sheet 1 of 1) Loosen the clamp screw with the Allen wrench

23-10-10

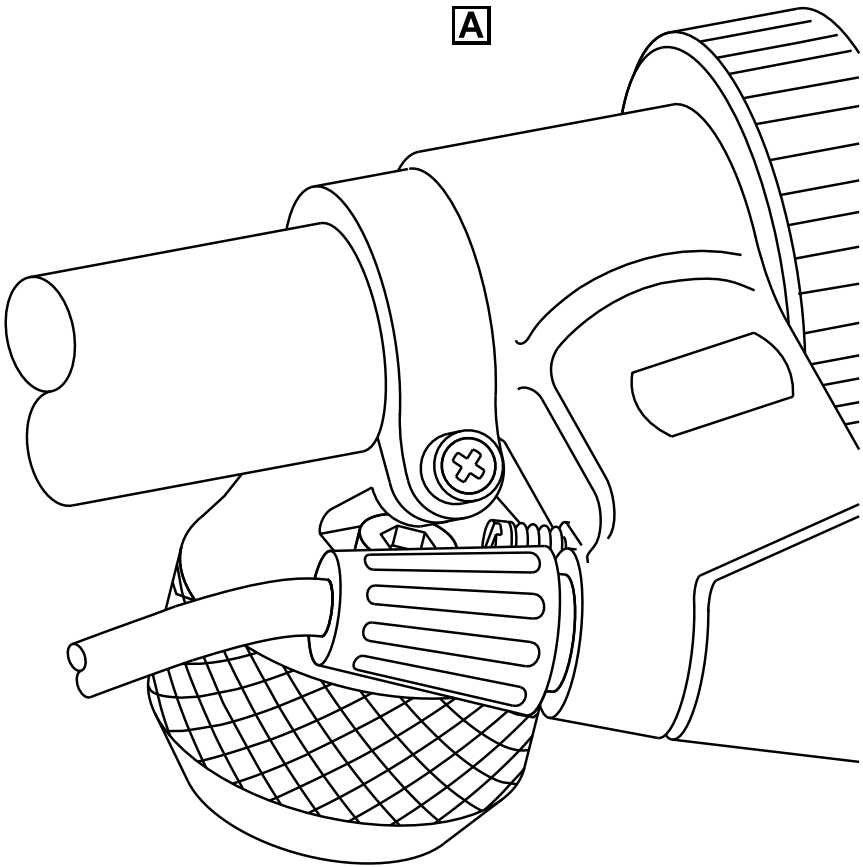
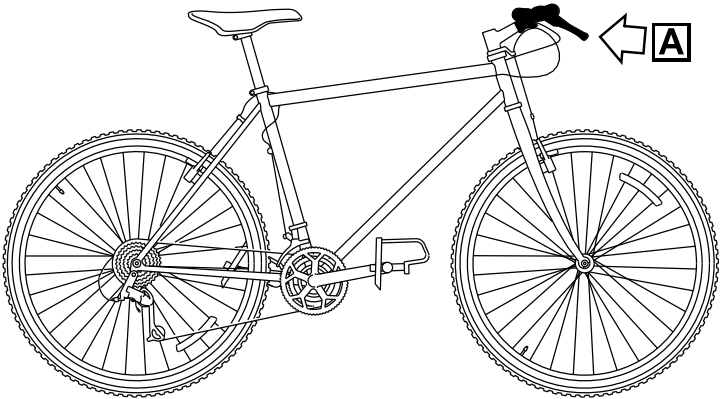
DISASSEMBLE
2016-12-31
Page DIS-5

B. Remove the lever and the mount from the handlebar.

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

8. Remove the handlebar

Use a [Tool \(4\) \(Set of Allen wrenches\)](#) and loosen the clamp bolt (refer to [Fig DIS-3](#)). To remove, move the handlebar out of the stem.



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ICN-C0419-S1000D0388-001-01

Figure DIS-3 (Sheet 1 of 1) Loosen the clamp bolt

23-10-10

DISASSEMBLE
2016-12-31
Page DIS-7

Table DIS-6 Required conditions

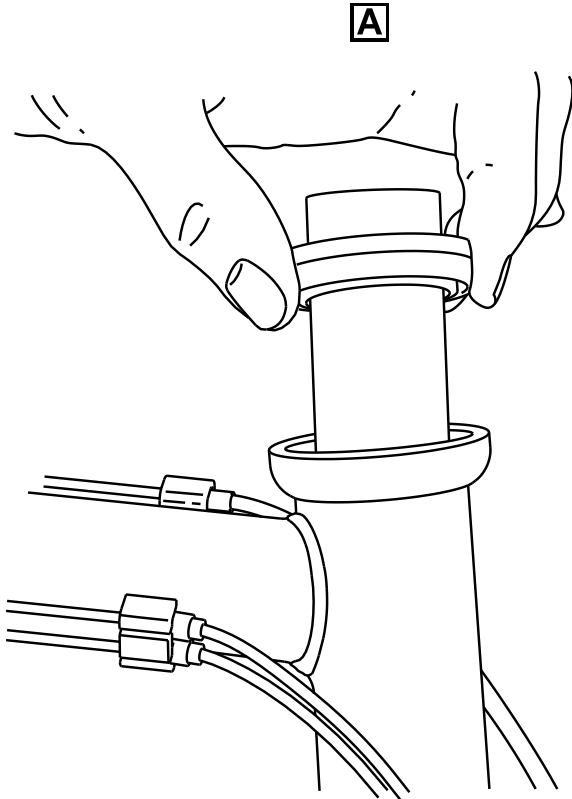
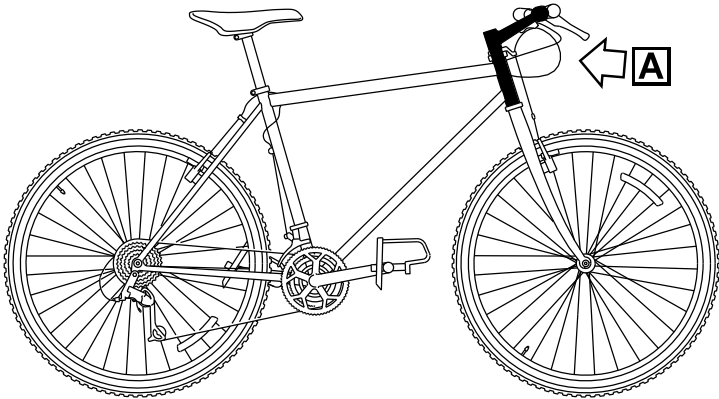
| Action/Condition | Data module/Technical publication |
|--|-----------------------------------|
| The bicycle is safely held on a work stand | |

Note 1

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

9. Headset remove procedures

- A. Remove the stem (refer to [S1000DBIKE-AAA-DA2-10-00-00AA-520A-A](#)).
- B. Remove:
 - the spacers
 - the brake cable hangar
 - the dust seals
 - the conical expansion washer(s) from the steerer tube
- C. Lift the upper bearing cup off (refer to [Fig DIS-4](#)) and then remove the fork from the frame.



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ICN-C0419-S1000D0390-001-01

Figure DIS-4 (Sheet 1 of 1) Lift the upper bearing cup

23-10-10

DISASSEMBLE
2016-12-31
Page DIS-9

End of S1000DBIKE-AAA-DA2-30-00-00AA-520A-A
End of DISASSEMBLE

Repair

Table REP-1 Support equipment

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------|--------------------------|-------|----------|---------|
| (1) Tire lever | BSK-TLST-001-04 | KZ666 | 1 EA | |
| (2) Foot pump | BSK-TLST-001-05 | KZ666 | 1 EA | |
| (3) Marker pen | BSK-TLST-001-07 | KZ666 | 1 EA | |
| (4) Tube patch kit | BSK-TLST-001-07 | KZ666 | 1 EA | |

Table REP-2 Consumables, materials and expendables

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------|--------------------------|-----|----------|---------|
| None | | | | |

Table REP-3 Spares

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|---------------------|--------------------------|-------|----------|---------|
| (1) Inner-tube | IT-001 | KT222 | 1 EA | |

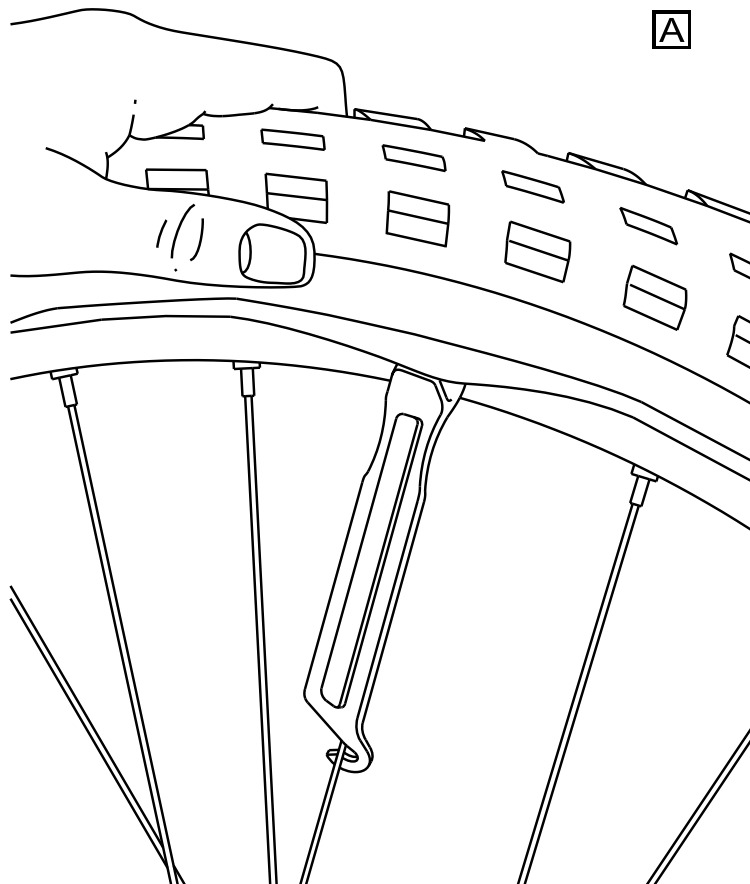
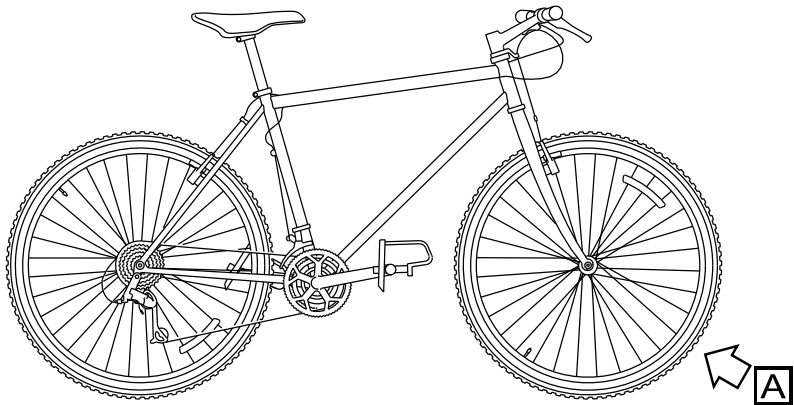
S1000DBIKE-AAA-D00-00-00-00AA-663A-A

CAUTION

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

1. Bicycle standard repair procedures

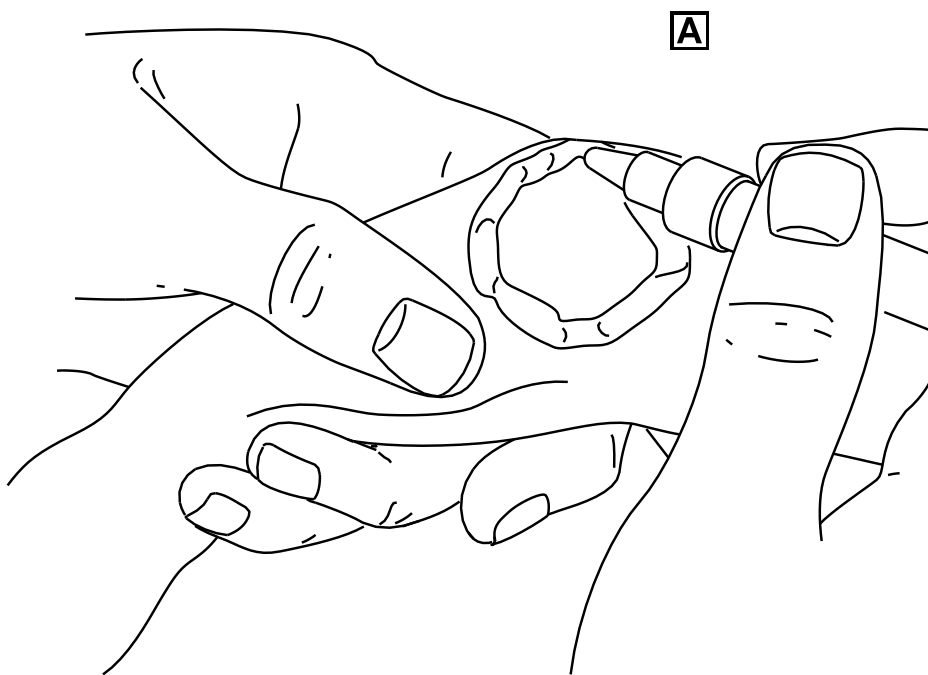
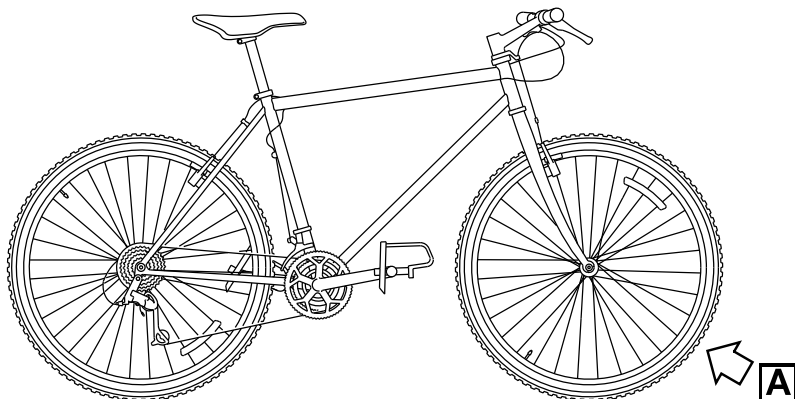
- A. Remove the rear wheel. (Refer to [S1000DBIKE-AAA-DA0-20-00-00AA-520A-A](#))
- B. Make sure that there is no air in the tube.
 - (1) Loosen the cap on the valve stem.
 - (2) Push the valve stem core down to bleed all the air.
- C. Use a [Tool \(1\) \(Tire lever\)](#) to move the tire bead out of its seat. Lift the tire bead above the lip of the rim.



ICN-C0419-S1000D0368-001-01

Figure REP-1 (Sheet 1 of 1) Unseating the tire with a tire lever

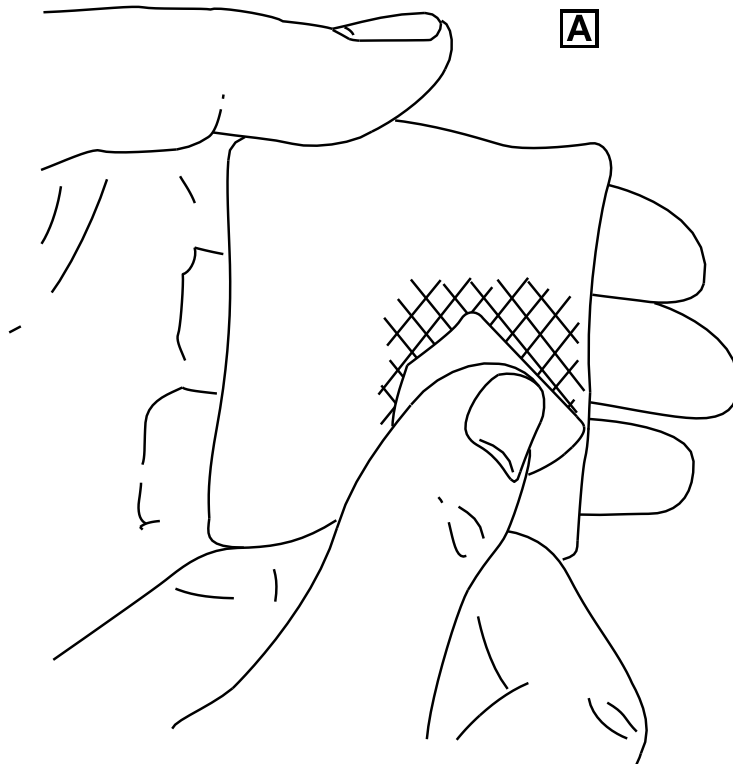
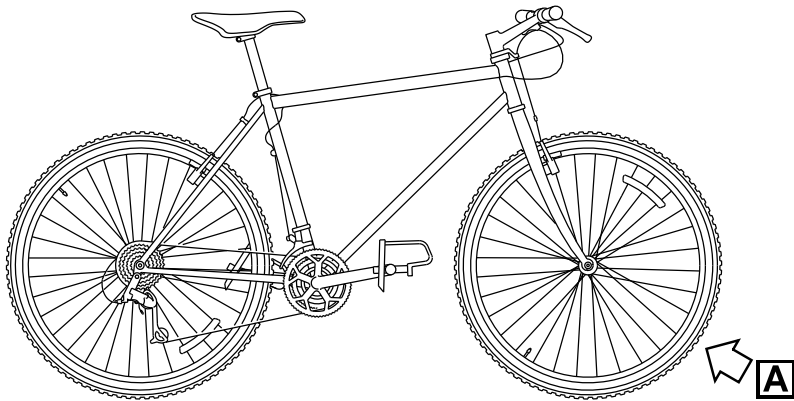
- D. Remove the tube.
- E. Inflate (not fully) the tube with the [Tool \(2\) \(Foot pump\)](#). Examine the tube for leaks.
- F. If you find a leak, identify it with a circle made with a [Tool \(3\) \(Marker pen\)](#).



ICN-C0419-S1000D0375-001-01

Figure REP-2 (Sheet 1 of 1) Circle leak

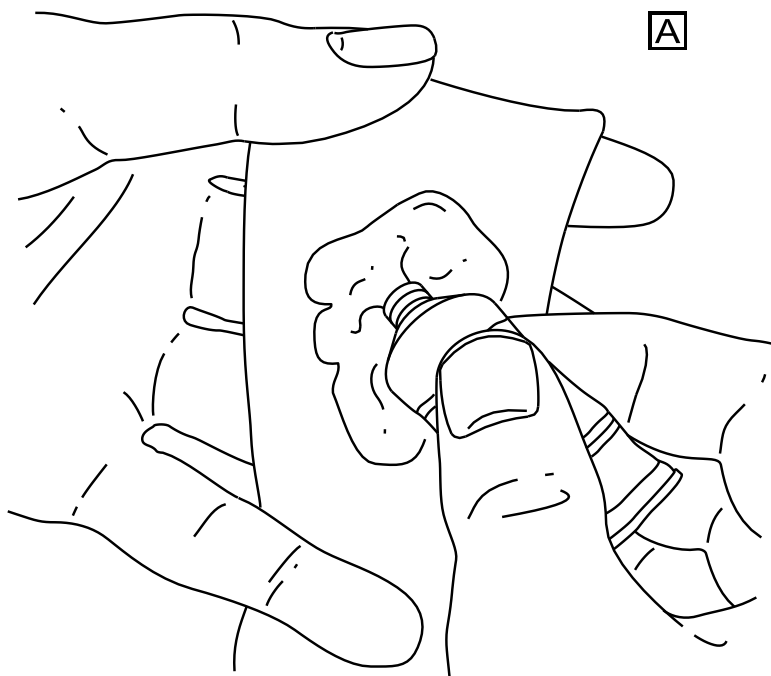
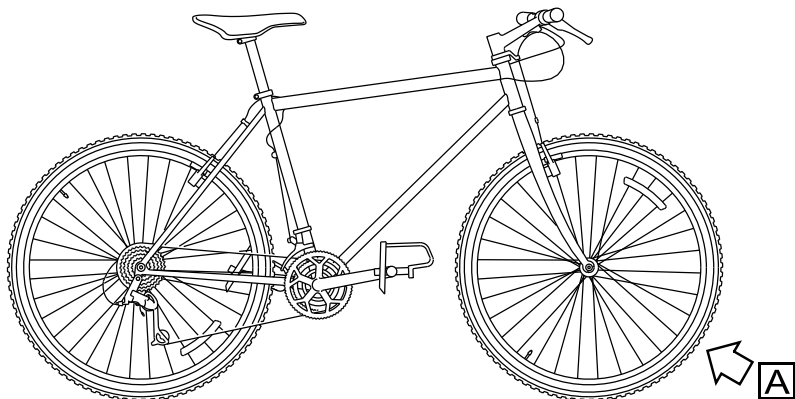
- G. Release most of the air.
- H. Use a piece of sandpaper from the [Tool \(4\) \(Tube patch kit\)](#) and make the area on and around the hole rough. This will help the patch bond correctly.



ICN-C0419-S1000D0376-001-01

Figure REP-3 (Sheet 1 of 1) Sanding the application area

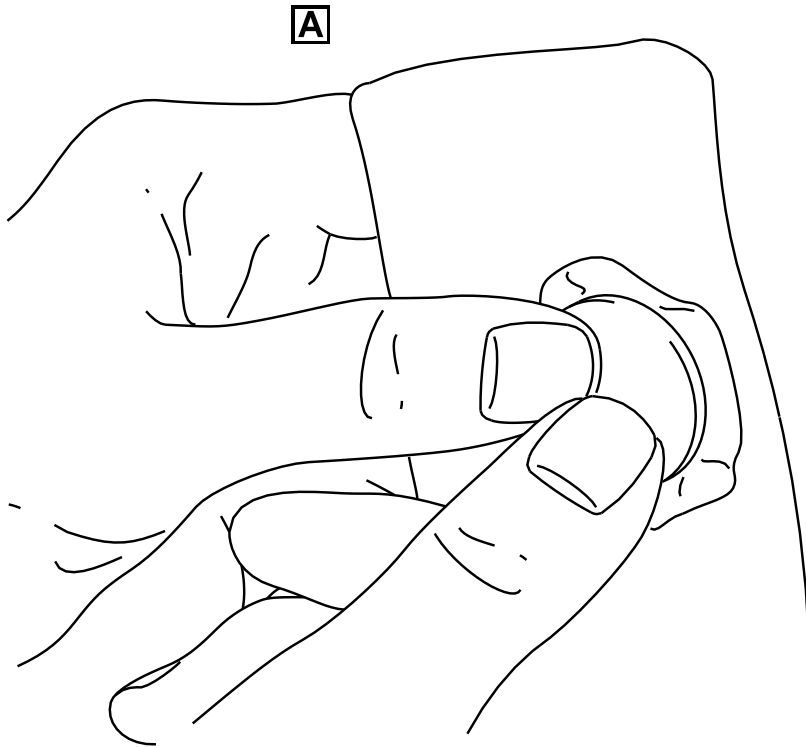
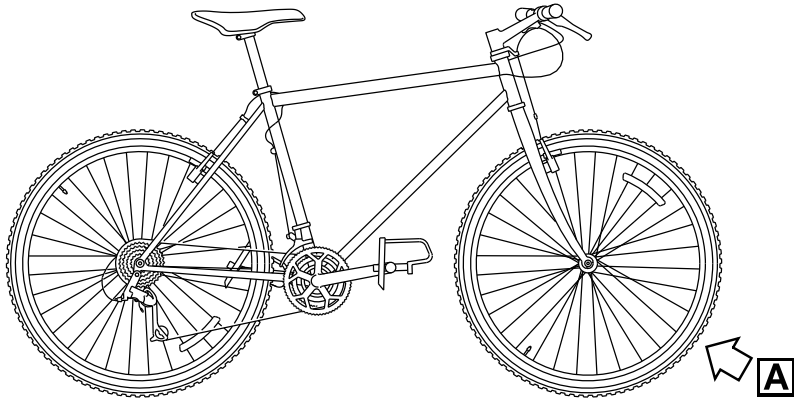
- I. Apply a thin layer of glue from the patch kit on and around the hole. Make sure that the area with the glue is larger than the patch.



ICN-C0419-S1000D0377-001-01

Figure REP-4 (Sheet 1 of 1) Apply glue to application area

- J. Let the glue dry for five minutes until it becomes tacky and dim.
- K. Remove the rear foil from the patch (that is a part of the patch kit) and push the patch in its position.
- L. Push with your thumbs from the center of the patch to the outer part of the applied area.



ICN-C0419-S1000D0378-001-01

Figure REP-5 (Sheet 1 of 1) Apply pressure to tube

- M. Remove the thin cover from the patch.
- N. Put a very thin layer of talcum powder on and around the patch.
- O. Inflate (not fully) the repaired tube with the foot pump.
- P. Start at the valve stem and install the tube again between the tire and the rim.
- Q. Push the valve stem through the hole in the rim.
- R. Make sure that the valve stem is straight.
- S. Install the remaining of the tire.

*End of S1000DBIKE-AAA-D00-00-00-00AA-663A-A
End of REPAIR*

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Assemble

Table ASSY-1 Support equipment

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|-------------------------------|--------------------------|-------|----------|---------|
| (1) Specialist toolset | BSK-TLST-001 | KZ666 | 1 EA | |
| (2) Clean dry cloth | BSK-TLST-001-12 | KZ666 | 1 EA | |
| (3) Work stand | Stand-001 | KZ555 | 1 EA | |
| (4) Set of Allen wrenches | BSK-TLST-001-13 | KZ666 | 1 EA | |
| (5) Extra firm hold hairspray | HSP-D001 | HS111 | 1 EA | |
| (6) Work stand | Stand-001 | KZ555 | 1 EA | |
| (7) Work stand | Stand-001 | Stand | 1 EA | |

Table ASSY-2 Consumables, materials and expendables

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|-----------------------|--------------------------|-------|-------------|---------|
| (1) General grease | LL-005 | KZ222 | As required | |
| (2) General grease | LL-005 | KZ222 | As required | |
| (3) Rubbing alcohol | LL-002 | KZ222 | 1 L | |
| (4) General lubricant | LL-001 | KZ222 | 1 L | |

Table ASSY-3 Spares

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|-----------------------|--------------------------|-------|----------|--------------|
| (1) Fork set | SPA-1000-1 SPA-1000-1 | KZ666 | 1 EA | Material set |
| - Fork | FK-TEL1001 | KZ666 | 1 EA | |
| (2) Fork | FK-TEL1002 | | 1 EA | |
| - Fork | | | 1 EA | |
| (3) Stem | St-001 | KZ555 | 1 EA | |
| (4) Stem bolt | St-001-01 | KZ555 | 1 EA | |
| (5) Handlebar | Hd-001 | KZ555 | 1 EA | |
| (6) Brake lever | BR-LVRS-001 | KT444 | 1 EA | |
| (7) Shifter lever | SI-001 | KZ555 | 1 EA | |
| (8) Brake lever mount | BR-LVRS-001-01 | KT444 | 1 EA | |
| (9) Handlebar grips | Hd-001-01 | KZ555 | 1 EA | |

Table ASSY-3 Spares (Continued)

| Name/Alternate name | Identification/Reference | MFR | Quantity | Remarks |
|-------------------------------|--------------------------|-------|----------|--------------|
| (10) Handlebar plug | Hd-001-02 | KZ555 | 1 EA | |
| (11) Frame fork | St-001-02 | KZ555 | 1 EA | |
| (12) Upper bearing cup | St-001-03 | KZ555 | 1 EA | |
| (13) Brake cable hangar | BR-LVRS-002 | KT444 | 1 EA | |
| (14) Dust seal | St-001-04 | KZ555 | 1 EA | |
| (15) Conical expansion washer | St-001-05 | KZ555 | 1 EA | |
| (16) Fork set | SPA-1000-1 SPA-1000-1 | KZ666 | 1 EA | Material set |
| - Spacer | SPC-200-12 | KZ666 | 1 EA | |

S1000DBIKE-AAA-D00-00-01-00AA-720A-A

1. Fork install procedures

- A. Apply grease ([Supply \(1\) \(General grease\)](#)) on the headset
- B. Install the headset, refer to: [S1000DBIKE-AAA-DA2-30-00-00AA-720A-A](#)
- C. To install the spacers, refer to: [S1000DBIKE-AAA-DA2-40-00-00AA-720A-A](#)
- D. Install the stem, refer to: [S1000DBIKE-AAA-DA2-10-00-00AA-720A-A](#)
- E. Install the fork ([Spare \(1\) \(Fork\)](#))

End of S1000DBIKE-AAA-D00-00-01-00AA-720A-A

S1000DBIKE-AAA-D00-00-01-00AB-720A-A

2. Fork install procedures

- A. Apply grease ([Supply \(2\) \(General grease\)](#)) on the headset
- B. Install the headset, refer to: [S1000DBIKE-AAA-DA2-30-00-00AA-720A-A](#)
- C. Install the stem, refer to: [S1000DBIKE-AAA-DA2-10-00-00AA-720A-A](#)
- D. Install the fork ([Spare \(2\) \(Fork\)](#))

End of S1000DBIKE-AAA-D00-00-01-00AB-720A-A

S1000DBIKE-AAA-DA0-30-00-00AA-720A-A

3. Front wheel install procedures**23-10-10**
ASSEMBLE
2016-12-31
Page ASSY-2

Note

It is necessary to install the fork and the brakes before installing the wheel

- A.
- B. Hold the front of the bicycle.
- C. Install the wheel with ([Tool \(1\) \(Specialist toolset\)](#)) and be careful to not damage the chainring.
- D. Put the bike on the floor.

End of S1000DBIKE-AAA-DA0-30-00-00AA-720A-A

S1000DBIKE-AAA-DA1-20-00-00AA-720A-A

4. Front brake install procedures

Note

It is necessary to install the fork before installing the brakes

- A.
- B. Hold the front of the bicycle.
- C. Install the front brakes on the fork.
- D. Put the frame on the floor.

End of S1000DBIKE-AAA-DA1-20-00-00AA-720A-A

S1000DBIKE-AAA-DA2-10-00-00AA-720A-A

Table ASSY-4 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 | |

CAUTION

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

CAUTION

The stem bolt does not safety the stem.

Note 1

The stem must point forward in alignment with the wheel.

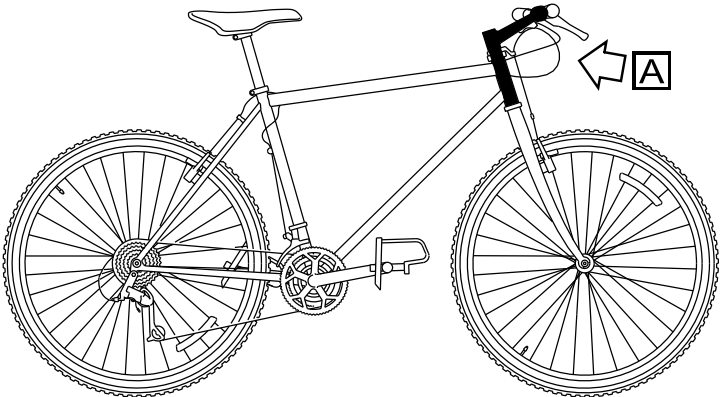
5. Stem install procedures

- A. Remove all the rust and the corrosion with a [Tool \(2\) \(Clean dry cloth\)](#) and [Supply \(3\) \(Rubbing alcohol\)](#).

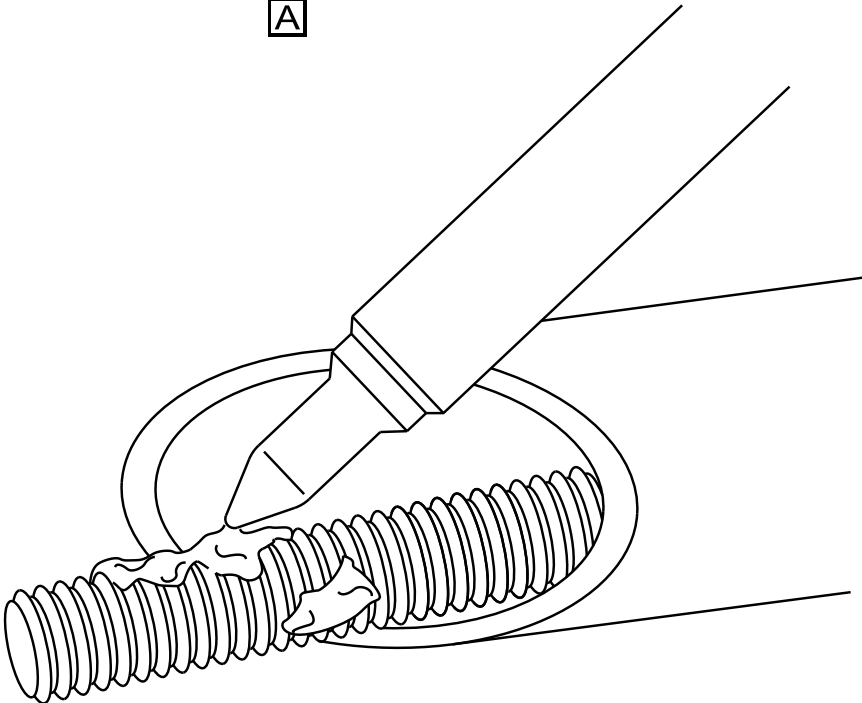
B. Install the stem.

(1) Use a [Supply \(4\) \(General lubricant\)](#) and lubricate:

- the threads of the [Spare \(3\) \(Stem\)](#) and [Spare \(4\) \(Stem bolt\)](#)
- the sides
- the top of the wedge



A



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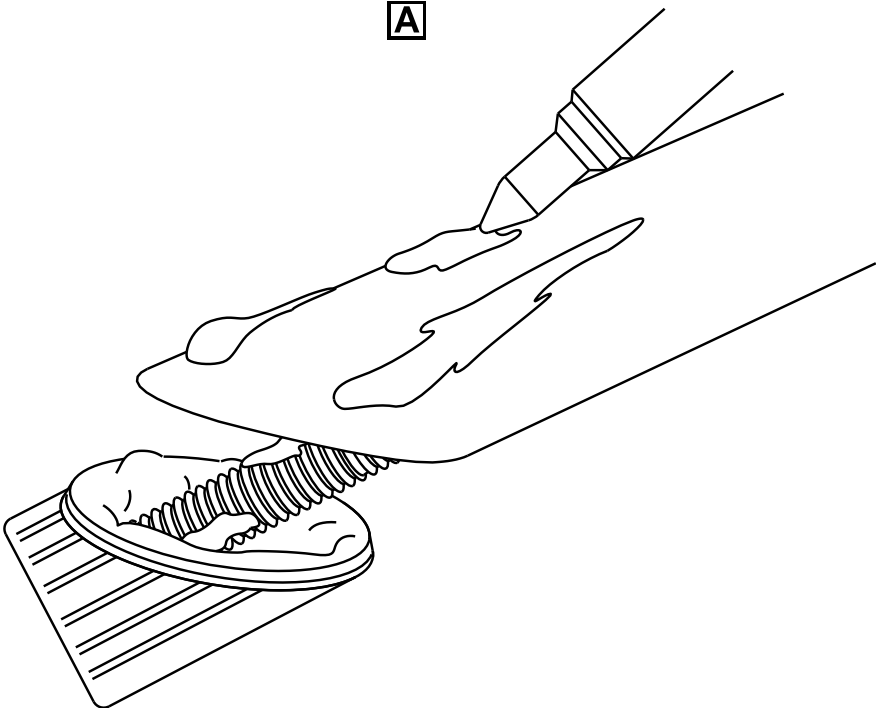
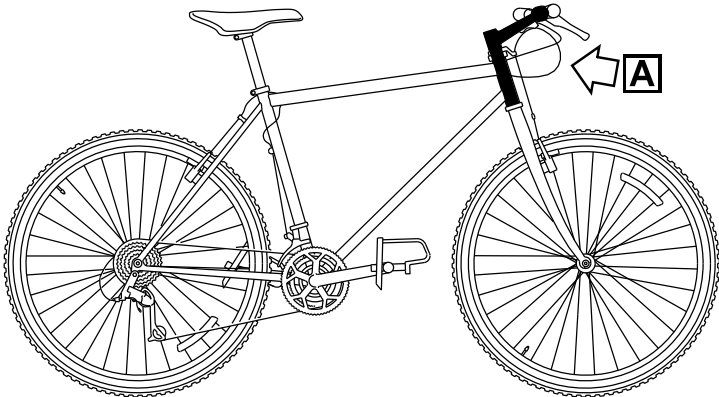
ICN-C0419-S1000D0385-001-01

Figure ASSY-1 (Sheet 1 of 1) Lubricate the thread

23-10-10

ASSEMBLE
2016-12-31
Page ASSY-5

- (2) Install the Spare (3) (Stem) in the steerer tube.



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ICN-C0419-S1000D0386-001-01

Figure ASSY-2 (Sheet 1 of 1) Tighten the bolt

23-10-10

ASSEMBLE
2016-12-31
Page ASSY-7

(3) Adjust to align the Spare (3) (Stem) with the wheel and tighten the Spare (4) (Stem bolt) firmly.

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

End of S1000DBIKE-AAA-DA2-10-00-00AA-720A-A

S1000DBIKE-AAA-DA2-20-00-00AA-720A-A

Table ASSY-5 Required conditions

| Action/Condition | Data module/Technical publication |
|--|-----------------------------------|
| The bicycle is held safely on work stand. Refer to (Tool (6) (Work stand)) | |

WARNING

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

WARNING

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

CAUTION

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

6. Handlebar install procedures

A. Put the Spare (5) (Handlebar) in the stem and tighten the clamp bolt with a Tool (4) (Set of Allen wrenches). Make sure the handlebar is correctly aligned in the center of the stem. Tighten the clamp bolt.

B. Put the Spare (6) (Brake lever) and Spare (7) (Shifter lever) on the handlebar.

(1) Move the Spare (7) (Shifter lever) on the Spare (5) (Handlebar) again and make sure you do not catch the cables.

(2) Tighten the clamp bolt.

(3) Move the Spare (8) (Brake lever mount) and the brake lever on the Spare (5) (Handlebar) again.

(4) Tighten the clamp screw.

C. Replace the Spare (9) (Handlebar grips).

(1) Apply with the Tool (5) (Extra firm hold hairspray) to the Spare (9) (Handlebar grips) area of the Spare (8) (Brake lever mount).

(2) Before the Tool (5) (Extra firm hold hairspray) becomes dry, move the Spare (9) (Handlebar grips) into the correct position. Make sure the grip protects the end of the Spare (5) (Handlebar) or install a Spare (10) (Handlebar plug).

End of S1000DBIKE-AAA-DA2-20-00-00AA-720A-A

S1000DBIKE-AAA-DA2-30-00-00AA-720A-A

Table ASSY-6 Required conditions

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

7. Headset install procedures

- A. Install the [Spare \(11\) \(Frame fork\)](#) on the frame.
- B. Install the [Spare \(12\) \(Upper bearing cup\)](#).
- C. Install the components that follow on the steering tube:
 - the [Spare \(13\) \(Brake cable hangar\)](#)
 - the [Spare \(14\) \(Dust seal\)](#)
 - the [Spare \(15\) \(Conical expansion washer\)](#)
- D. Install the stem (refer to [S1000DBIKE-AAA-DA2-10-00-00AA-720A-A](#)).

End of S1000DBIKE-AAA-DA2-30-00-00AA-720A-A

S1000DBIKE-AAA-DA2-40-00-00AA-720A-A

8. Spacer install procedures

Note

It is necessary to install the headset before installing any spacer

- A.
- B. Install the spacer ([Spare \(16\) \(Spacer\)](#))

End of S1000DBIKE-AAA-DA2-40-00-00AA-720A-A
End of ASSEMBLE

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Storage

S1000DBIKE-AAA-D10-30-00-00AA-800A-A

1. Extended storage

A. Extended storage details go here...

End of S1000DBIKE-AAA-D10-30-00-00AA-800A-A

S1000DBIKE-AAA-D10-30-00-00AA-811A-A

2. Preparation for transport

A. Preparation for transport details go here...

End of S1000DBIKE-AAA-D10-30-00-00AA-811A-A

End of STORAGE

End of MAINTENANCE AND SERVICING

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Illustrated parts data

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Introduction

S1000DBIKE-AAA-D00-00-00-01AA-041A-A

1. Introduction

A. Introduction goes here...

*End of S1000DBIKE-AAA-D00-00-00-01AA-041A-A
End of INTRODUCTION*

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Numerical index

This section contains the NI for the IPD section for the components listed in this publication.

| Part number | Airline stock number | Figure | Item | Quantity |
|--------------------|-----------------------------|---------------|-------------|-----------------|
| BICYCLE-001 | | D00-00-00-01A | 000A | REF |
| BICYCLE-001/1 | | D00-00-00-01A | 001A | 1 |
| BICYCLE-001/2A | | D00-00-00-01A | 002A | 1 |
| BICYCLE-001/2B | | D00-00-00-01A | 002A | 1 |
| BICYCLE-001/3 | | D00-00-00-01A | 003A | 1 |
| BICYCLE-001/4 | | D00-00-00-01A | 004A | 1 |
| BICYCLE-001/5 | | D00-00-00-01A | 005A | 1 |
| LRU1001 | | D00-00-00-01A | 006A | 1 |
| WH-001 | | D00-00-00-01A | 007A | 1 |
| WH-002 | | D00-00-00-01A | 008A | 1 |
| CP-001 | | D00-00-00-01A | 009A | 1 |

End of NUMERICAL INDEX

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Equipment designator index

This section contains the EDI for the IPD section for the components listed in this publication.

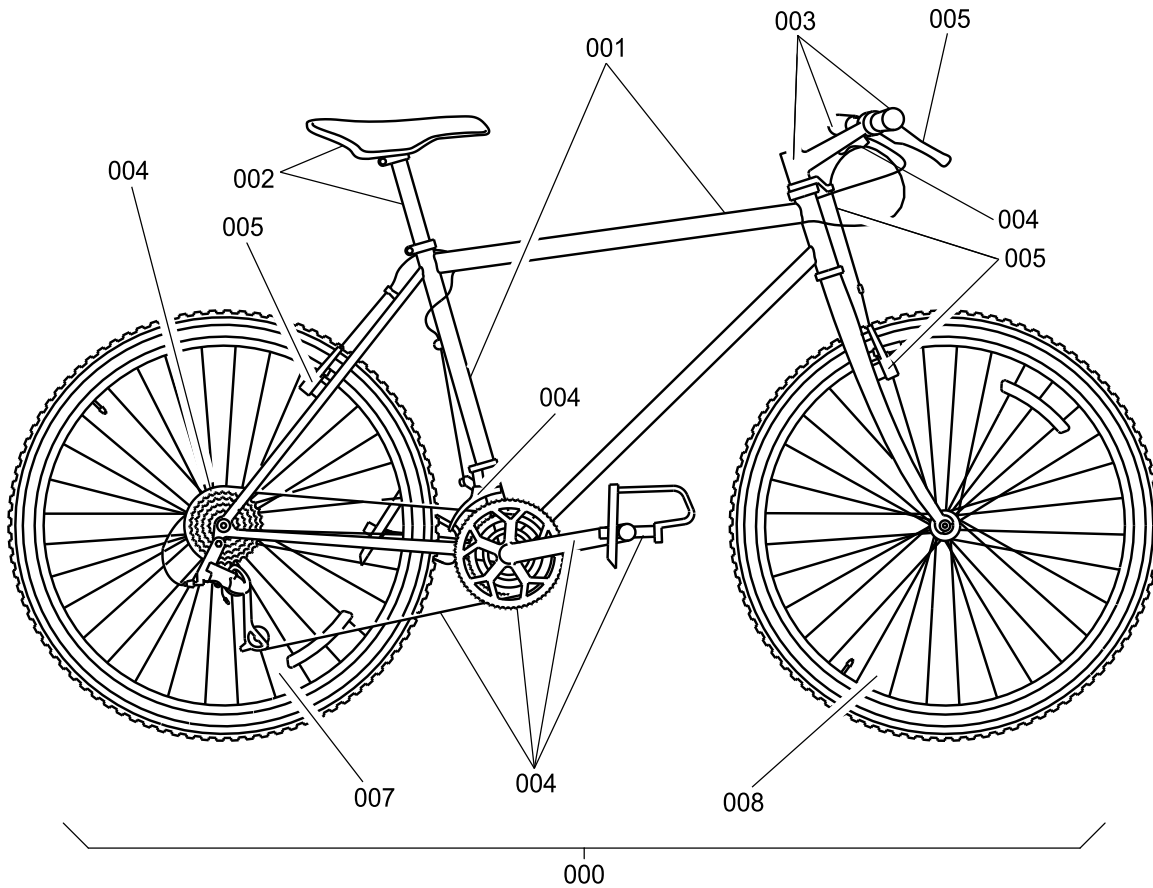
| Equipment designator | GEO LOC | Figure | Item | Equipment designator | GEO LOC | Figure | Item |
|-----------------------------|----------------|---------------|-------------|-----------------------------|----------------|---------------|-------------|
| A2C10 | 2A | D00-00-00-01A | 001A | A2R1 | 2E1 | D00-00-00-01A | 007A |
| A2C12 | 2B | D00-00-00-01A | 003A | A2R15 | 2E2 | D00-00-00-01A | 007A |
| A2C16 | 2C | D00-00-00-01A | 003A | | | | |

End of EQUIPMENT DESIGNATOR INDEX

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Detailed parts data

S1000DBIKE-AAA-D00-00-00-01AA-941A-D



IPD figure D00-00-00-01A

| Item | Part number | MFR | Description | QNHA | UOC |
|------|----------------|-------|---|------|-----|
| 000A | BICYCLE-001 | KZ999 | Bicycle | REF | |
| 001A | BICYCLE-001/1 | KZ999 | • Frame assembly (REF DES: A2C10) | 1 | |
| 002A | BICYCLE-001/2A | KZ999 | •• Seat, assembly | 1 | |
| 002A | BICYCLE-001/2B | KZ999 | •• Cruiser Seat, assembly | 1 | |
| 003A | BICYCLE-001/3 | KZ999 | •• Steering system (REF DES: A2C12, A2C16) | 1 | |
| 004A | BICYCLE-001/4 | KZ999 | •• Drive train system | 1 | |
| 005A | BICYCLE-001/5 | KZ999 | •• Brake sub-system | 1 | |
| 006A | LRU1001 | KZ777 | •• Light system | 1 | |
| 007A | WH-001 | KZ888 | •• Wheel, assembly rear (REF DES: A2R1, A2R15) | 1 | |
| 008A | WH-002 | KZ888 | •• Wheel, assembly front | 1 | |
| 009A | CP-001 | KZ888 | •• Computer | 1 | |

End of S1000DBIKE-AAA-D00-00-00-01AA-941A-D

End of DETAILED PARTS DATA

End of ILLUSTRATED PARTS DATA

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