

Ascii1000D Test : 999-9999999-999

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**U.S. PATENTS** - The Star SAFIRE® 380-HD Series Systems are protected by the following patents: U.S. Patent No. 7,264,220; U.S. Patent No. 7,471,451; U.S. Patent No. 7,561,784; and U.S. Patent No. 7,671,311. Other U.S. and International Patents Pending.

## 1. Ascii1000D - Description

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### 1.1. Description



### 1.1.1. System definitions

**Bold**, *underline*, **highlight**, subscript, superscript, other text styles available.

Special characters invoked by character substitution such as ©, ®, →, and more.

Keyboard sequences are supported by the `kbd` macro, for example `CTRL+ALT+DEL`.

The footnote macro produces notes in the bottom of the page<sup>[1]</sup>

**Note** The KBD macro is only active when the EXPERIMENTAL document attribute is declared. Otherwise, it appears as monospaced verbatim text.

### 1.1.2. Index test

The Lady of the Lake, her arm clad in the purest shimmering samite, held aloft Excalibur from the bosom of the water, signifying by divine providence that I, Arthur, was to carry Excalibur . That is why I am your king. Shut up! Will you shut up?! Burn her anyway! I'm not a witch. Look, my liege! We found them.

Unordered List

- Item
- Item
- Item

Ordered list

1. Item
2. Item
  - 2.1 Item
  - 2.2 Item
    - 2.2.1 Item
3. Item

### 1.1.3. System 2 Definitions

Demo for change process

## 1.2. Description part two

Descriptive data modules are relatively unconstrained.

This content is specific to CONFIG1.

1. Text of the footnote

## 2. Ascii1000D - Inspect

---

### 2.1. Prerequisites

#### 2.1.1. Support equipment

NA

#### 2.1.2. Supplies

NA

#### 2.1.3. Spares

NA

### 2.2. Procedure

Warning Material may cause burning to death

1. Warning High voltage kills! ZAP

Turn on the system if the temperature is under 80°

2. Use the `source` switch to ensure that the electrical system is not AC (Alternating Current) during maintenance.
3. Ensure electrical safety procedures are followed.
4. If the system is CONFIG1, check yellow warning light
5. Confirm green light
6. Reserve spare units in accordance with OEM (Original Equipment Manufacturer) published storage procedures.

### 2.3. Closing Requirements

NA

## 3. Ascii1000D - Remove

---

## 3.1. Prerequisites

### 3.1.1. Support equipment

NA

### 3.1.2. Supplies

NA

### 3.1.3. Spares

NA

## 3.2. Procedure

1. 

Warning Do not remove the wrong part

Remove the part.

- 1.1 

Caution Skydrol is a surface irritant and inhalation hazard

Drain fluids from part.

- 1.2 Perform other cleaning operations.

2. Reserve the removed part for bench testing according to OEM (Original Equipment Manufacturer) storage procedures.

## 3.3. Closing Requirements

NA

# 4. Ascii1000D - Install:DMC

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## 4.1. Prerequisites

### 4.1.1. Support equipment

NA

### 4.1.2. Supplies

NA

4.1.3. Spares

| PNR            | NOMEN        | QTY |
|----------------|--------------|-----|
| 999-999999-99  | SparePart    | 1   |
| 999-888888-991 | SpareConfig1 | 1   |

4.2. Procedure

1. Install the part
2. For CONFIG1, perform the following steps

2.1 Remove the yellow light]

4.3. Closing Requirements

Perform inspection [Ascii1000D - Inspect](#)

5. Frame fork - Install

5.1. Preliminary requirements

| Table 1. Required conditions |                                   |
|------------------------------|-----------------------------------|
| Action/Condition             | Data module/Technical publication |

The bicycle is safely held on a work stand

Support equipment

| Table 2. Support equipment |             |       |          |        |
|----------------------------|-------------|-------|----------|--------|
| Name/Alternate name        | Part number | MFC   | Quantity | Remark |
| Work stand                 | Stand-001   | Stand | 1        |        |

Spares

Table 3. Spares

| Name/Alternate name      | Part number | MFC   | Quantity | Remark |
|--------------------------|-------------|-------|----------|--------|
| Frame fork               | St-001-02   | KZ555 | 1        |        |
| Upper bearing cup        | St-001-03   | KZ555 | 1        |        |
| Brake cable hangar       | BR-LVRS-002 | KT444 | 1        |        |
| Dust seal                | St-001-04   | KZ555 | 1        |        |
| Conical expansion washer | St-001-05   | KZ555 | 1        |        |

5.2. Procedure

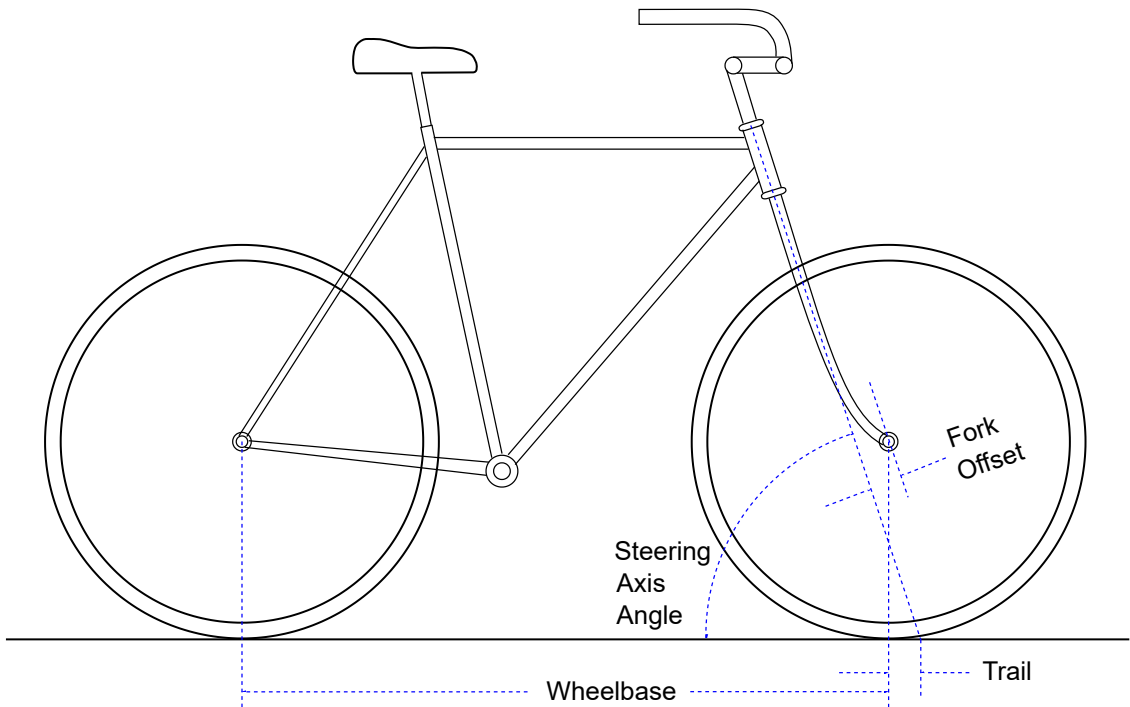


Figure 1. Test SVG image

1. Install the Frame Fork on the frame.
2. Install the Upper bearing cup.
3. Install the components that follow on the steering tube:
  - Brake cable hangar
  - Dust seal
  - Conical expansion washer
4. Install the stem

## 5.3. Requirements after job completion

NA

# 6. System Control/Symbology

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Successful operating missions require operators to have a solid understanding of the system operating modes; how to select and control these operating modes; and how to select and interpret the display screen symbology. This chapter provides System Control Unit (SCU) and display screen symbology for the Star SAFIRE® 380-HD system.

## 6.1. Operational Limitations

This section provides operation recommendations including airspeed, if applicable, and crash damage.

### 6.1.1. Airspeed

Teledyne FLIR recommends a maximum airspeed for system operations.

Caution Flights exceeding a maximum airspeed of 415 Knots could damage the TFU.

### 6.1.2. Crash Damage

In the event of a crash, systems are known to exhibit broken windows with cracked or large shards of glass fragments inside the TFU and on the ground at the crash site. Proper handling of Teledyne FLIR equipment (LRUs) are covered in this section.

#### 6.1.2.1. First Responders

First Responders include Rescue Crew, Aircrew, and Aircraft Maintenance Crew. This section provides hazards and equipment requirements.

While there are no specialized identified Personal Protective Equipment (PPE), Teledyne FLIR Warning strongly recommends use of thick or heavy leather gloves while handling of TFUs with broken windows or fractured housing material.

Warning Use extreme care when handling shards of broken or cracked glass fragments.

Requirements are as follows:

- Environmental Hazards: None
- Chemical Hazards: None
- Ozone Depleting Chemicals: None
- Personal Protective Equipment (PPE): Protective gloves (for broken glass)

## 6.2. Operational Techniques

Understanding the concepts of infrared (IR) imaging, good crew coordination, learning and practicing the various system modes of operation, and sharing information and techniques with other operators and departments will ensure successful missions.



## 6.2.1. Crew Operation

Good communication between the aircraft pilot, ground personnel, or another ground station results in safer, more successful missions. One operating challenge is to correctly determine the direction and tracking of a moving target and then follow it. The system needs to be constantly adjusted for platform movement, target movement, and Line-of-Sight (LOS). Crew coordination is key to success.

## 6.2.2. Successful Operating Ideas

In order to maximize successful mission completion, operators should become familiar with the system. Here are some tips and suggestions to increase mission success. The following operating suggestions are provided to aid operators:

For non-maritime model TFUs, do not install, operate, or store the TFU in the ball up configuration Caution when exposed to the elements. Water intrusion may occur in the skillet during heavy inclement weather.

**Caution** Do not store the TFU for long periods with the lenses facing the sun. Long term exposure to the sun will damage the system optics.

The following target approaches can cause erratic gimbal behavior and should be avoided during operation:

Note 1. ball-down systems,  $-90^\circ$  elevation (nadir)

2. ball- up systems , $+90^\circ$  elevation (zenith).

**Note** If the IR sensor approaches over-heating (in extreme high temperature environments such as in the desert), the system will shut the IR sensor down. This is similar to the hibernate mode. If this occurs, all other sensors will be available. Once the system cools down, the IR sensor will again be available for use.

- Develop a solid understanding of thermal imaging as opposed to visible light, and the impact of environmental factors on the images.
- Build video libraries for review, instruction, and reference. Share tactics, techniques, and procedures with other operators and departments.
- Learn to adjust the system according to the existing or changing environmental conditions. Proper Grayscale, Scene Temperature, and Gain / Level adjustment enhances the display for even minor target temperature variations.
- Practice finding and tracking various thermal cues, which can be 'hot,' 'cold,' or somewhere in between, depending on the situation. When using an Infrared (IR) sensor, the operator must keep in mind the visual cues he/she is used to seeing with his/her eyes will be presented differently. The operator needs to understand how to interpret the scene in order to provide useful narration or direction to others during a mission.
- Search in wider fields of view and identify in narrower fields of view.

## 6.3. Modes of Operation

Various turret control modes and image optimization settings are available to help operators successfully complete mission objectives. The most commonly used functions are shown in the table below.

Table 4. Modes of Operation

| Turret Control Mode                                     | Image Optimization                                 |
|---|--|
| Cage (CAGE) & Stow (STOW)                               | Polarity (POL)                                     |
| Inertial Point (IP)                                     | Focus - Auto & Manual                              |
| Heading Hold (HH)                                       | Gain and Level /Exposure (Auto, Manual, Histogram) |
| Rate Aid (RA)   | Non-Uniformity Correction (NUC)                    |
| Geopoint (GEOPOINT); Image Aid<br>Geopoint(GEOPOINT-IA) | Field-of-View Change                               |
| Tracking  | Scene Temperature                                  |

## Index

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## Terminology

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- mud
  - wet, cold dirt
- rain
  - water falling from the sky