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Brusag INTRA II Tracker Axes Troubleshooting

I. Purpose:

This procedure outlines how to troubleshoot problems related to the azimuth (primary) and elevation (secondary) axes of a Brusag Intra II Tracker.

II. Cautions and Hazards:

None.

III. Requirements:

None.

IV. Procedure:

Note that fuses are unlikely the cause of most problems related to the primary and secondary axes because there are no motor-specific fuses in the interface box nor in the controller board inside the INTRA II. The AC-power module has one fuse for the mains (2AT) (T for "slow") that goes to the ring-transformer in the box. Then there is a second fuse (10A) for the heater circuit. In case of the interface box, which uses the same print as the AC-power module, but with a fewer components on it, there is only the 10A-fuse for the heater circuit present. Inside the INTRA II on the "controller-drawer," there is another fuse (2A or 3.15A) for the 24 VDC.

A. Checking Event Log:

1. Enter "Monitor | Driver | Drive status" on the "Monitor | show last events" command.
2. If you do not see "ok" for the secondary axis status, reset and repeat Step 1.
3. If the same result repeats, there are the following possibilities:
 - The axis is not properly initialized.
 - a) Run init.
 - The hall sensor of secondary axis motor does not work properly.
 - a) Check the connectors on the controller board.
 - The encoder is malfunctioning.
 - a) Check the connectors on the board.

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4. If the problem still exists, check the level of supply current.
 - If the current shows above 500mA, it indicates that a motor is malfunctioning.
5. If Steps 1, 2, 3, and 4 do not help identify the problem, contact the manufacturer for further assistance.

V. References:

None.

VI. Attachments:

None.