

8 Dec 70  
2

## PROBLEM

## SOLUTION OR STATUS

- |  |   |
|--|---|
| 1- Transport motor failure   | 1- Motor replaced                                   |
| 2- Adjust ball detent  | 2- Completed - satisfactory                         |
| 3- Exposed 250 V AC on circuit board   | 3- Corrected with insulating tape                   |
| 4- Mechanical stops on elevating mechanism                                       | 4- Bolts added as stops                             |
| 5- Capture screws holding 70 mm guides on table                                  | 5- Completed  |
| 6- Remove sharp corners from tilt switch   | 6- Completed  |
| 7- Larger diameter knurl on optics pod holddown screws                           | 7- New screws substituted                           |
| 8- Send 180° protractor - <input type="checkbox"/> will supply these for DIAAP-9 | 8- Protractor delivered to <input type="checkbox"/> |

AT

ST

9 - Serial numbers will be near fans on outside

10 - UV certification will be supplied.

11 - Lower cover locks will be changed

12 - Schematic not on back cover, but in manual

13 - Focus mechanism drifts downwards

14 - x-y cable & y-drive cable interfere with carriage motion

9 - A foil decal has been fixed to frame of table

10 -  having difficulty<sup>ST</sup> finding someone willing to certify. Problem will be solved shortly.

11 - New locks substituted - satisfactory

12 - No available space on table to include schematic. Agreeable to have in manual.

13 - Clutch slipping - corrected

14 - y-drive cable corrected. x-y cable still interferes. Correction causes other problems, and is an annoyance

rather than a problem. Interference occurs only in one restricted position of the optics mount.

15 - Lifting of optics without cranking requires too much force.

15 - Has been improved to be satisfactory. Still somewhat stiff action.

16 - Optics mount will not go through focus range for 2x rhomboid.

16 - Has been corrected - satisfactory

AT 17 -  will explore  $3 \pm \frac{1}{2}$  lb. spec for y horizontal motion.

17 - Has been corrected - satisfactory

AT 18 -  will investigate differential between x, y, and diagonal motorized optics mount movement.

18 - Has been improved so as to be acceptable. Further correction is considered to be a change-in-scope at approx. \$100 per table.

- |  |  |
|--|--|
| <p>AT 19 - <input type="checkbox"/> investigating play in y-locking action.</p>                  | <p>19 - Has been improved - acceptable.</p>  |
| <p>20 - Clearance will be increased between manual elevation crank and side of table.</p>        | <p>20 - Crank has been extended - satisfactory.</p>  |
| <p>21 - Dead rotation will be reduced in rate control.</p>                                       | <p>21 - Has been reduced from something over three turns to slightly more than two turns. Annoyance rather than problem.</p>   |
| <p>22 - Interference between optics and controls on rear deck will be eliminated downstream.</p> | <p>22 - Interference with mode switch will be minimized by substituting a low profile knob. Interference with fuse holder occurs only in a very extreme position of the optics mount. Annoyance rather than problem - is being investigated.</p> |

23 - One switch to lock up clutches.

24 - Focus mechanism must meet motion requirements.

25 - Rhomboids hit back of scope mount

23 - This is a possible addition and is not a technical or contractual problem.

24 - Optics mount would not depress enough to allow focus of the  Measuring ST  
Microscope. This has been corrected and is satisfactory.

25 - Has been corrected - satisfactory

- 1) Transport motor failure.
- 2) Adjust ball detent
- 3) Get rid of 250 VAC on circuit board for
- 4) Mechanical steps on elevating mechanism
- 5) Capture screws holding 70 mm guides on table.
- 6) Remove sharp corners from tilt switch.
- 7) Larger diameter knurl on optics pod holddown.
- 8)  will send 180° protractor.  
 will supply these for
- 9) Serial numbers will be near fans on outside
- 10) UV certification will be supplied.

STAT  
STAT

STAT

- 11) Lower cover locks will be changed for the better.
- 12) Schematic will not be of back cover, but will be in maintenance manual.
- 13) Focus mechanism drifts downward.
- 14) X-Y cable & Y drive cable interfere with carriage motion.
- ? 15) Lifting of optics without cranking is ~~too difficult~~, requires too much force.
- 16) Optics mount (focus ~~mount~~ mechanism) will not go thru focus range for 2x Rhomboid.
- STAT 17)  will explore  $3 \pm \frac{1}{2}$  spec for Y manual horizontal motion to assure smooth operation.
- STAT 18)  will investigate the differential between the X, Y, & diagonal ~~movement~~ motorized movement. The present

system is unacceptable.

STAT

- 19)  ~~with~~ is currently investigating the play in Y-locking action. Current play is unacceptable to sponsor.
- 20) Clearance will be increased between manual elevation crank and side of table. Presently it is less than 0.125 inches.
- 21) Dead rotation will be reduced in rate control.
- 22) Interference between optics and controls on rear deck will be eliminated downstream.
- 23) One switch to lock up clutches to provide positive lock without friction locks being applied. Explore this possibility - No extra cost or change of scope allowed.



24) The focus mechanism must meet motion requirements as per paragraph 3.5.1 of the ~~FE~~ technical requirements. It does not, at this time (see item 16).

25) Rhomboids bit back if sep. meet.

8 Dec 70

1 - ~~Extend~~ boards to be provided -  
a special treat

ILLEGIB

ILLE

- 2 - Supply generic nomenclature, and specifications of individual items
- 3 - Specify failure rate of known items.
- 4 - Overestimates of failure rates of unknown items.
- 5 - Pricing, and price breaks (re quantity) of items.
- 6 - Lead time on individual parts.
- 7 - What is to be stocked by  in this area
- 8 - What table does each item go in to - identify as to model
- 9 - Assign model number to each table