

Comments to JASIC presentation GTR9-7-06c and Proposed Changes, Flex PLI GTR Manual

IG GTR9-PH2 8TH MEETING

Content

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- Review of JASIC comments GTR9-7-06c
- Proposal further additions/changes to manual



The result of manual review of FlexPLI setting tool drawings have now NO. Comment Item number Page been supplied but should these be Please consider disclosing specialized maintenance tools for drawing. regulated? 1 1.2 Tools Required 12~14 We agree this Is the statement of the name of the maker to a manual permitted? 2 could be a problem Humanetics, DTS, M-BUS, Kyowa, etc.... should DAS section be The display method of each rated value of a ligament corridor is not removed and put in unified. none regulated @ Tibia Peak Moment @ Tibia Gage 1 Peak Moment @ Tibia Gage 2 Peak Moment @ Tibia Gage 3 Peak MCL Elongation Peak ACL Elongation Peak PCL Elongation document? Peak Moment (Gage 4 3 7.6 Data Processing 91 Unit Nm mm Agreed Upper 272 219 166 111 10.5 5 24 235 187 8 3.5 20.5 Lower 139 90 All values should have 1 decimal 10.5 5.0 24.0 place as well? 8.0 3.5 20.5



Comment to Sheet 2

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			The display method of each rated value of a ligament corridor is not unified.									
			OTO Consort	Calibration Results	Peak Moment @ Tibia Gauge 1	Peak Moment @ Tibia Gauge 2	Peak Moment @ Tibia Gauge 3	Peak Moment @ Tibia Gauge 4	Peak ACL Elongation	Peak PCL Elongation	Peak MCL Elongation	
4	8.7 Data Processing	96	ı	Jnits	Nm				mm			
			, l	Jpper	272	252	192	108	10.0	6	21	
			L	ower	230	210	166	93	8.0	4	17	
			All values should have 1 dec place as well?					10.0	6.0	21.0		
				8.0							17.0	Agreed
	2.1 Standard 12		Both ACL and PCL(s) which are indicated in Table 2 are not Monitoring							ng		
5	Channel instrumentation	15	but Injury Assesment. Agreed						_			
6	3.1 Femur Exploded View	48,49	133-5516 The collar which fixes END COVER has escaped from the This part is molded									
7	3.3 Tibia Exploded View	61,62	block diagram and the table. into 133-5516 so no need to show									



Comments to Sheet 3

8	2.3.2 Signal Polarity, Sensor function check	25	In the examination of Fig. 16, the output of ACL and PCL is minus in the state of the place where a bend angle in the knees is small. Therefore, you should make a judgment of the output signal of ACL and PCL in the state where a bend angle in the knees is to some extent large. Therefore, for performing the output judging of ACL and PCL, it is necessary to enlarge a knee bend angle to some extent. Suggest we add note - "For low bending angles ACL and PCL outputs will be negative when manipulated manually. In the diagram below (fig. 16) they are shown as positive. To obtain a positive signal the bend angle would have to be more significant.			
9	Figure 85	81	The unit of the horizontal axis of the graph of Fig. 85 is not mm but N.			



Further Changes Proposed

- In the overview 1.1 we would like to add a short description of the main components and DAS options. We would also like to add a brief structure of the manual
- In section 1.2 we would like to add an overview list of screw torques with pictures and a list of abbreviations like BHCS, Button Head Cap Screw. We would also like to add a list of recommended spares.
- In section 3 we would like to start with disassembly rather than assembly as this seems more logical for users.
- Propose we change Section 3 to:-
- 3.1 Introduction
- 3.2 Leg disassembly and assembly
- 3.3 Femur disassembly and assembly
- 3.4 Knee disassembly and assembly
- 3.5 Tibia disassembly and assembly
- 3.6 Flesh assembly and disassembly
- This will include some new pictures



Further Changes Proposed

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- Before table 10 in section 5 Weight Specification add note:- The Flex-PLI assembly mass and tolerances are given in table 10. For dynamic certification tests, pendulum and inverse, as well as regulatory vehicle tests, the leg must comply to the given limits.
- Add a table showing regulation dimensions
- Table 11 sensor weight. we propose we remove this table, not relevant
- Add note in introduction in pendulum and inverse that leg should be certified with it's on board DAS



Thank You

