

PCIN 15440 G0746	<b>SPACE SHUTTLE PROGRAM CREW RELATED GFE CCB DIRECTIVE</b>	PAGE 1 OF 1
		CCB DATE April 20, 1982

**CHANGE TITLE:**  
Treadmill Exerciser

<b>CHANGE PROPOSAL(S) NO. AND SOURCE</b>  N/A	<b>DOCUMENTS AFFECTED (NO., TITLE, PARA)</b>  Flight Manifest and CCCD
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<b>INITIATED BY:</b> LB/R. A. McComb	<b>SUBMITTED BY:</b> LB/R. A. McComb
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**CREW RELATED GFE CHANGE DIRECTION**

This CCBD authorizes the following changes to the treadmill exerciser for STS-4.


1. Add rough surface or equivalent to running surface
2. Relocate force cord tie-down to treadmill exerciser
3. Decrease spring rate and provide constant force to bungee cords
4. Add speedometer and odometer (commercial type)
5. Modify speed control device
6. Add heart rate monitor device (commercial type)
7. Modify fittings - hold down devices (Brownline)

Cost: 10K (est.) FY82

In addition, this CCBD authorizes a study to survey industry for smaller, simple stowage, and less expensive exercising device to meet the basic intent for exercising in zero "g".

Cost: 10K (FY82)

Actions: EC/J. H. Barnett - To implement this change into your activity.  
WC2/D. Cordiner - To update the flight manifest, accordingly.  
EW2/R. Malone - To update the CCCD, accordingly.

<b>AUTHORIZATION:</b>   SIGNATURE CHAIRMAN, CREW RELATED GFE CCB	<b>CLOSE-OUT DOCUMENTATION</b>  4/22/82 DATE
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4/22

Bill

Pls get with Mel  
Tays, ASAP, to review  
Treadmill Ex. location for  
STS-5. If the location  
is at the DFI rack, we  
need RI's impact which requires  
level II change request. IT will  
take 4-8 weeks for approval  
by SSPO mgr.

Dick Mc