

Space mechanics get Max running

United Press International
CAPE CANAVERAL — Two space mechanics fixed Solar Max in Challenger's zero-gravity garage Wednesday and the refurbished sun sentry was freed on the shuttle's arm to be returned to orbit. If the checkout goes OK, Challenger's crewmen will complete their historic rescue and repair mission by putting Solar Max back in orbit today and landing in Florida Friday, after permitting a successful redeployment of the most sophisticated sun-tracking satellite would prove that astronauts Robert Crippen, Dick Scobee, and "Pinky" Nelson, James Van Hoften and Terry Burcham have moved the American space program into a new era. Controllers at the National Aeronautics and Space Agency referred to the crew as

the "Ace Satellite Repair Co." after their mission was salvaged by the arm's capture of Solar Max on Tuesday.
Despite the cumbersome gloves on their bulky pressure suits and the tiny screws on the satellite, Nelson and van Hoften breezed through the satellite tune-up in less time than expected. They were tethered 300 miles above Earth in Challenger's cargo bay.
They laughed and joked in their workshop, cluttered with glittering bits of insulation.
"Take a bow, Pinky, take a bow," said Crippen, as the fix-it men finished their chores.
They were done far enough ahead of schedule to allow van Hoften time for a test flight with one of the jet backpacks known as a manned maneuvering unit. He took the jetpack through a series of turns and rolls but stayed within the bay because Challenger is short on

maneuvering fuel.
The spacewalkers also reported that a small stud not shown in design drawings of Solar Max may have been the reason that Nelson failed in his free-flight attempts to dock with the satellite Sunday.
Scientists estimated the satellite repair bill would cost \$50 million. Solar Max was built and launched at a cost of \$77 million, but at current prices a replacement would cost \$235 million.
The spacewalkers used special tools — a power screwdriver and what van Hoften called a "million dollar wrench" — to replace two broken parts in the satellite. They also placed a cover on another instrument.
Nelson and van Hoften took turns standing on a work platform at the end of the shuttle's 50-foot robot arm to be hoisted to the different parts of the satellite. Solar Max was held in a

special cradle at the back of the bay near Challenger's tail.
When the space "cherry picker" swung van Hoften over the Earth about 300 miles up, he said it made him feel uncomfortable.
"I feel like I'm going to fall," he said.
Van Hoften, who considers himself a pretty good home handyman, used the wrench to replace Solar Max's attitude control module, which had been on the blink since three fuses blew in November 1980.
He removed two bolts, slid the 500-pound module out, and slipped in a new one that scientists hope will allow the precise positioning necessary for Solar Max to carry out its studies of sun flares.
The space wrench was used

because an ordinary one would have sent the astronaut turning instead of the bolts.
After van Hoften replaced the control system — the main goal of the repair mission — he and Nelson took on the more ticklish task of repairing the main electronics box on the satellite's coronagraph, used to study the sun's outer atmosphere.
Unlike the attitude control system, the main electronics box on the coronagraph was not designed with space repair in mind.
The astronauts used surgical scissors to cut through insulation protecting the electronics box. They also had to cut some wires and use a screwdriver to disconnect 11 electrical connectors with 22 screws no bigger than a match head.



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Court-martial held for 17-year veteran

United Press International
FORT HOOD — Army prosecutors conducted court-martial hearings Wednesday for a 17-year Army veteran who refused to obey an order to work on a Saturday because it violated the laws of the Seventh-day Adventist church.
1st Class George M. Dessauer, 36, was charged with failure to obey a direct order during an NCO leadership course at Fort Hood.
The Seventh-day Adventist religion prohibits work between sundown Friday and sundown Saturday, so Dessauer walked away from the conference at Fort Hood Friday.
Dessauer, who is originally from Cincinnati, said he had made every effort to explain his religious beliefs to his superior officers but was told he would have to attend the conference anyway.

The court-martial began Tuesday and a decision was expected by today, officials said.
At Tuesday's hearing, Army prosecutor Capt. Keith Romich asked the married father of three: "Didn't you realize when you re-enlisted that you could not serve the military and your God, too?"
"No, I did not think about it," Dessauer replied. "I thought I was protected by the First Amendment, guaranteed freedom of religion."
Dessauer is being defended at the court-martial by attorney Randy Elkins of Minden, La. If convicted he faces six months of hard labor at a federal military prison, a dishonorable discharge and loss of six months of pay.
Dessauer became a Seventh-day Adventist two years ago.

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Police Beat
The following incidents were reported to the University Police Department through Wednesday.
MISDEMEANOR THEFT:
Two signs belonging to the married Club were stolen from the Memorial Student Center on, but not from the cross-section area between the MSC and the Tower.
A J.V.C. AM/FM cassette component stereo system was stolen from 2150 MSC.
A blue Schwinn ten-speed bicycle was stolen from a G. Lerman White Coliseum bike store.
A yellow Raleigh ten-speed bicycle was stolen from in front of Sterling C. Evans Library.
A 1979 Honda XL-100-S motorcycle was stolen from the Annex 30.
A Randex AM/FM stereo radio with detachable speakers was stolen from 361A Medical Science.

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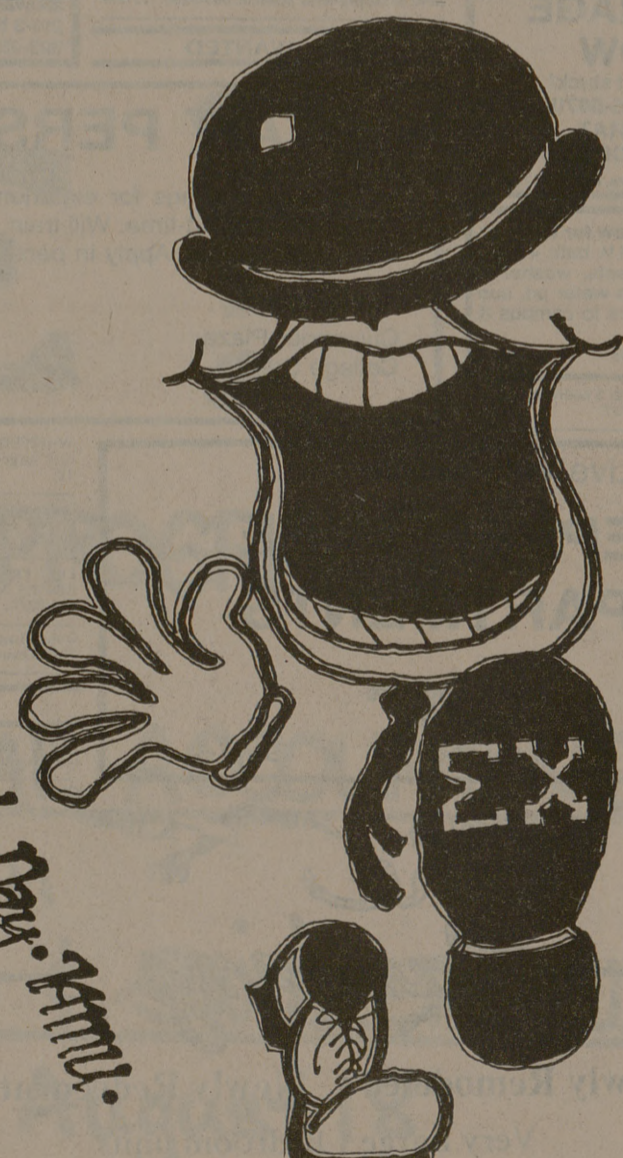
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