huttle engines king re best ever

United Press International erate a 91,700-ton Nimitz class ANOGA PARK, Calif. — The craft carrier at cruising speed. engines that will power ntains near a pass where gun- over for 12 submarines.

used to wait for the famed Buteld stagecoach.

Now, it's still a popular film

shuttle's main engines are most advanced ever bunk to eflight and they have had their e of development problems.

Super ssippi test center is expected ay the shuttle's maiden orbital

despite the engine troubles. ne engines have generally perned well and he was not overly cerned with the development

ch troubles had to be expected, well International, undertook gan lopment of such an advanced rplant.

engines, designed to be reusor flight after flight, are things

y operate at greater temperathan any mechanical system the terrorist groups. use. But the fuel is the seccoldest liquid on Earth -

oxygen and burned, the tem- control as one railroad diesel But its hydrogen turbinepump alone delivers as much power as 28 diesel locomodelivers enough power for 11

energy released by the three is in one space shuttle at full is equivalent in watts to the t of 23 Hoover Dams.

ning pool could be emptied in spots, including the playing field.

engine turbopump develops Orange Bowl. h torque as 18 v-8 automobile

op enough horsepower to op- bowl.

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EM

e engines that will power The pumps from all three engines rica's space shuttle into orbit would power the battleship Iowa being built in the Santa Susana and have enough horsepower left

> One of the engines has enough thrust to keep two and one-half Boe-

they are modern mechanical ing 747s in the air.

When the space shuttle lifts off for its maiden flight, now expected in peaceful slopes that once were a November, it will release energy ite location for old western greater than all the nuclear power plants in nine foreign countries, or tion site, but for science fiction five times the power of seven nuclear plants in the United States.

lay the shuttle's maiden orbital tate this year by six to eight A shuttle program manager of Thompson said in Houston the engines have generally per-

United Press International
MIAMI — Police are readying a
strike force of two dozen antinpson said, when the space cy and the engine manufacture Rocketdyne Division of during Sunday's Super Bowl football

> "The threat is there; you have the potential," said Capt. Mike Cosgrove, who heads the strike force. The whole point of terrorism is publicity. A disruption of the Super Bowl would be a big plus for any of

The team is undergoing intensive training this week in sniper and ed hydrogen at 423 degrees bomb detection, hostage negotia-tion, kidnapping prevention, dignitwhen that is mixed with frigid ary protection and demonstration

oxygen and burned, the term in the main combustion per soars to 6,000 degrees, day the bailing point of iron.

As for arms and equipment, or grove said the group — composed mostly of members of the departwill have "everything - the whole nine yards."

"You're looking at semiautomatic lower as 28 diesel locomo-lower as 28 diesel locomo-loco nel in SWAT ready-response uniforms, the whole thing," Cosgrove

The team will consist of about 10 plain-clothes intelligence officers trained to recognize terrorists who ou could pump water at the will filter through the crowd and uel is pumped into the three another 10 to 15 members who will es, an average family-size station themselves near danger

onds.
In addition, he said, a hostage negotiation team will be at the stadium and a helicopter will be stashed away within seconds of the

The anti-terrorist team will not concern itself with routine police e one fuel pump and one oxy-nump from two of the three he said, leaving those to the 130 unies in a shuttle and they would formed policemen who will be at the

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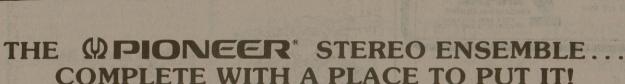
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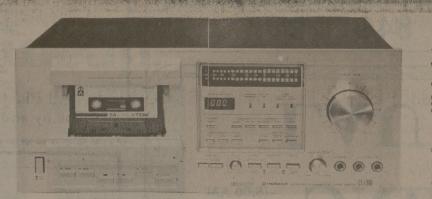
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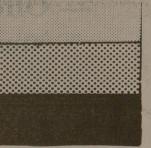
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