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Drive To Open Feb. 8

Formal launching of the In the evening, a parents' scheduled for 7:30 this eve-

THE TORRANCE HERALD

1962 support campaign for the dinner has been scheduled at Torrance YMCA has been scheduled at Torrance YMCA has been scheduled for Thursday, Feb. ington and Arlington to enlist the area of Hawthorne and the aid of parents who last Lomita boulevards.

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JANUARY 25, 1962

AiResearch Plays Vital Role In Project Mercury Systems

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As a result, in each Project Mercury flight, the environ-mental control system has op-erated according to design specifications.

OTHER PRIME considera-tions in the development of the system include the incor-poration of back up units for all moving components. For example, the compressor which circulates the oxygen through the capsule and the astronaut's suit has a sec-unit available for back up pur-

In addition, the system which operates automatically in the capsule can also be op-erated manually by the astro-

Coupled with extensive test-ing procedures and proven de-sign characteristics is the fact that most of the components in the system are similar in principle to units in use today aboard the commercial and military jet aircraft.

FOR EXAMPLE, the heat exchanger which uses water to absorb heat in the capsule is similar in design to the heat exchanger used to cool pas-sengers aboard the Boeing 707 jet airliner. They both are technically referred to as a plate and fin heat exchanger,

plate and fin heat exchanger, according to Garrett engineers, who have been producing environmental control systems for more than 20 years. Briefly, the Project Mercury environmental control system contains two complete systems used to pressurize and coboth the capsule and suit well as control the composition of the atmosphere.

THE 28-HOUR supply of gaseous oxygen, stored at 7500 psi, is fed into the suit and capsule through pressure reducers. (An additional 28-hour

supply is available for back up purposes.)

The suit circuit removes carbon dioxide, excess mois-ture, debris, odors, and is cool-ed before being circulated back to the astronaut.

The circuit circulating the oxygen in the capsule consists of a fan and heat exchanger. The environmental control system is capable of operating at minus 20 degrees F to ±200 degrees F In addition to operating at minus 20 degrees for the control of the control of the capacitant of the circulation of the capacitant of the circulation of the circulation of the capacitant of the circulation of degrees F. In addition, it operates at zero "G" loading or in a weightless environment.

Hi Shear Given \$18,500 Order

Contracts valued at \$18,538 have been awarded to Hi Shear Corp. of Torrance for mechanical assembly parts for the National Aeronautics and Space Administration, it was reported from Huntsville, Althis week.

Established Jan. 1, 1914

Corrance Berald

Member of
National Editorial Association
Calif. Newspaper Publisher Assn.
LA Suburban Newspapers, Inc.
Verified Audit Circulation

Publication office and plant, 1619 Gramercy Ave., Torrance, Calif. Published Semi-weekly. Thurs

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Adjudicated a legal Newspaper by Superior Court, Los Angeles County, Adjudicated Decree No. 218470, March 30, 1927.

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