



Services Test Vehicle For Roughest Terrain

Ling-Temco-Vought's LTV-Michigan Division Tuesday rolled out its first model of the XM561, a double-bodied, articulated six-wheeled vehicle which can go almost anywhere the Army fights.

A total of 14 development prototypes are currently being fabricated for test by the U.S. Army and the U.S. Marine Corps.

LTV is serving as prime vehicle contractor to develop and construct these one and one-quarter ton vehicles for the Army under a \$1,000,000 contract. Project manager for the Army is Major Roger L. Berquist. Major assemblies for the new vehicle are being obtained from other firms in Michigan.

FIRST MODEL OF THE XM561 Eighteen vehicles will be built and tested extensively by the Services and Ling-Temco-Vought

ALL OF the evaluations will be used for test and evaluation work by the military in widely varied terrain from arctic wastelands to tropical jungles.

The design of the XM561 is based on a vehicle called the Gama Goat, which LTV privately developed. The Gama Goat has been demonstrated over numerous rugged military test courses both in the United States, Europe and Asia.

The XM561 consists of two light-weight bodies working in combination, a four-wheeled tractor unit and a two-wheeled carrier linked together to provide power to all six wheels.

KEY TO the vehicle's mobility is an articulating mechanism that keeps all six wheels on the ground and driving at all times, regardless of terrain.

The vehicle's center axle pivots freely on a roll axis maintaining constant ground contact. The articulation joint permits the two bodies to pitch and roll independently of each other.

The combination of high ground clearance and the low ground pressure provided by the large low pressure tires and the six-wheeled drive feature permit the XM561 to travel over extremely rough terrain. Articulation of the drive shafts also permits uniform wheel loading regardless of terrain and minimizes the need for heavy body structure.

LATERAL pivoting of the two bodies is restricted to prevent jack-knifing on slippery ground and during braking to accommodate this restricted lateral movement, four of the vehicle's six wheels are steerable—the front wheels and those of the carrier body—providing exceptional maneuverability and a turning radius of 29 feet.

Coordinated front and rear steering also gives the operator full control regardless of the vehicle's attitude. On an upgrade where many vehicles incur dangerous steering action, the transfer of weight to the rear wheels, the XM561 retains complete maneuverability because of the steerable rear wheels.

The vehicle has four forward transmission speeds and a two-speed transfer case. For high-speed highway travel only the center wheels are in drive.

BECAUSE OF its design, the XM561 frame can be constructed of lightweight aluminum and yet will be extremely rugged. The vehicle weighs 6,000 pounds and is 58 inches high. It has a top road speed of 55 mph. Size and weight of the vehicle also makes it well suited to transport by aircraft and helicopter and air drop by parachute.

The vehicle is 221 inches long and 84 inches wide. Its low silhouette is advantageous in combat situations.

The XM561 can climb a 26 inch vertical wall and has 15 inches ground clearance. Powered by a 103 horsepower compression ignition engine, the vehicle can carry 2,500 pounds of payload, or 10 combat troops.

The unique vehicle swims inland waters and traverses rough terrain with ease. It may point the way toward a new concept in military off-road transportation for forward combat units.

Foreign Students To Join in Area Yule Celebration

One hundred foreign students will spend the Christmas holidays in Detroit joining in 12 days of social and cultural activities at Wayne State University's Foreign Student Office.

Headquarters for 50 students from outside universities will be the Tuller Hotel. All are studying in the country under the sponsorship of the Agency for International Development (AID), which is also sponsoring their Detroit visit.

Dr. Virgil R. Loughheed, Wayne State foreign adviser, said he expects 50 WSU foreign students to participate in the festivities.

A RECEPTION for the AID visitors will be held 8 a.m. tomorrow at Mackenzie Hall's David D. Henry Lounge. This event is co-sponsored by the WSU International Student Society.

On Saturday, the group will tour the WSU campus and visit Cranbrook Institute of Science. A sleigh ride and dinner at Upland Hills Farm near Oxford, will be held Sunday.

Other events Christmas week will include tours of the General Motors Technical Center, the Visco Corp's Research Division, the city-county building and a visit to Cobo Hall's Christmas Exhibit.

Christmas Day the students will be guests of families in metropolitan Detroit.

The following week, there will be tours of the Detroit Institute of Arts and the Detroit Historical Museum; the Detroit Bank and Trust Co.; Ford Motor Co. and Greenfield Village; the J. L. Hudson Company and Sheraton-Cadillac Hotel.

AID students will attend house parties on New Year's Eve.

Dear Santa Clause, I hope you are feeling good and my telephone number is MI 7-2840. My sister Peggy is feeling fine and my sister Colleen, my sister Dawn and Kris are fine also. My name is John and I am six years old. I will be seven next year. For Christmas I want Binky's Auto, Factory and I want a dump truck (Vauxhall). My mom and dad are feeling fine. I like to play in the snow and I like to go over at Eton to slide down the big hill. I like to play with my sister Peggy I like school. I have to go now so I'll see you on Christmas eve.

Your good friend,
John Sandness
1886 Holland

State Police Warn of Thin Ice Conditions

With Michigan "drowning" already numbering 286, the worst toll in five years, the State Police are cautioning youngsters, ice fishermen and other outdoor sports followers that early winter ice "is still being treacherously thin on many lakes and streams."

Of the water deaths this year, at least 10 victims drowned in falls through ice. Two occurred recently when youngsters broke through and drowned under their river ice.

The State Police emphasize that freezing temperatures generally have not yet been prolonged or severe enough to produce ice about four inches thick, which is considered the safe minimum for bearing the weight of humans.

DROWNINGs caused by falls through ice have averaged nine annually in the last four years, with a high of 12 in 1961 and a low of five in 1963.

Parents of youngsters are advised to remind their children often of the hazards possible in playing or skating on ice surfaces of outdoor lakes and streams. Even where such activity is approved, there should be provision of rescue equipment to include a long pole, branch, ladder or rope for reaching the victim of an ice break-through.

Though the practice isn't recommended, ice fishermen who drive their cars onto ice are cautioned that the frozen surface should be from one to two feet thick to be considered safe for vehicle weight.

Need something for a Horse or Rider? then come to

THE TACK BOX

6489 Willow Road, Union Lake

Where professional advice is always on hand to help you choose the correct saddlery, riding apparel, stable equipment or gift.

or Phone EM 3-9100

We will deliver locally or Send C.O.D.

A message of importance for men and women who are concerned about their health.

If you're over 40 ... Let's face facts

Kidney-Bladder ailments strike far more often

Now is the time to do something about it!

After 40, you're reaching the age when you're more susceptible to the illnesses common to middle age. Among the most distressing are kidney-bladder disorders. If you've ever suffered them, you know the pain and embarrassment involved.

To help relieve kidney-bladder conditions, many doctors suggest drinking 6-8 glasses daily of spring-pure Mountain Valley Water. That's because its "diuretic" (kidney-flushing) effect steps up kidney action, helps you eliminate body wastes faster. Mildly alkaline, it gently soothes bladder irritation at the same time helps neutralize excess urine acids (thus reduces that "burning" sensation). What's more, refreshing Mountain Valley Water is "light," non-filling, non-laxative. Regular daily use can make a positive contribution to your health. Costs only pennies a glass ... actually less than a soft drink. And tastes wonderful!

Phone or write today for refreshing Mountain Valley Water. Ask for complimentary literature. Satisfaction guaranteed or your money refunded.

MOUNTAIN VALLEY WATER

Delivered direct to your door from the world-renowned spring near Hot Springs, Arkansas

MOUNTAIN VALLEY WATER CO.

3343 GRATIOT, DETROIT 7, MICH. LO 7-0178

AT THESE BIRMINGHAM STORES

Wilson Drug Co., 101 N. Woodward	MI 4-5600	Sires, 180 W. Maple	MI 4-1500
Ritters, 297 E. Maple	MI 4-3114	Mine's, 11 W. Long Lake Rd.	MI 4-0514

HAGGERTY HAS IT!

OPEN FRIDAYS UNTIL 9 P.M. FOR YOUR SHOPPING CONVENIENCE

Build Your Own FISH HOUSE

for Fun or Commercial ICE FISHING

FREE: Building and assembly instructions. Practical to own, inexpensive to build, with sturdy, lightweight, windproof and warm Upon All Weather Panels.

Complete R.D. Materials & Hardware \$17.95

4' x 6' PANELS only, \$1.59 ea.

TWO HANDY SIZES

4' x 8' x 3/4"	\$3.95 ea.
5' x 8' x 3/4"	\$4.95 ea.

Give TABLE TENNIS FUN this Xmas

You can make the table YOURSELF

5' x 9' - 1/4" TOP	\$10.95
5' x 9' - 3/4" TOP	\$12.95
8 METAL LEGS	\$12.75

Order your table today. With a few hours work you'll have a bright new table in time for the Christmas festivities.

The Perfect Christmas Gift!

WELWOOD BACKBOARD SET

48" x 32"	\$6.95
GOAL and NET	\$2.98

FINISH IT Yourself

UNPAINTED CHESTS

Species: Ash or chest of select Plywood Panel

#A14N 33" High 27" x 15

\$16.75

CHILD'S SET Only \$4.95

Extra chairs available

6-FT. WORKBENCH

K.D. EASY TO ASSEMBLE DRAWER BUILT UP

Only \$9.75

HAGGERTY LUMBER & SUPPLY CO.

2055 HAGGERTY HWY. Walled Lake
MA 4-4551 — EL 6-6166
Between W. Maple and Pontiac Trail
T.A.M. 9 P.M. — SAT. 7-9

Don't Buy Any New Car Until You

Do

1965 LEMANS 4 DOOR SEDAN

Oh Yes, OUR DEAL TO YOU IS ALSO SOMETHING SPECIAL— BECAUSE WE WANT YOUR BUSINESS!

There is no more we can say because words can't describe this car. You will just have to see it for yourself.

WILSON PONTIAC CADILLAC, Inc.

1350 N. Woodward Birmingham
MI 4-1930