

# Thruster Troubles Seen Remote On Future Spacecraft Flights

HOUSTON, Tex. (AP)—Gemini officials label as "remote" the possibility a thruster might go wild on a future spacecraft as one did on Gemini 8 March 16, flipping its two astronauts in tumbling danger and cutting short the voyage.

Nevertheless, they want firm assurance it will not happen again before they commit another team of Gemini spacemen to orbit, especially for a space walk.

The case on Gemini 8. Officially, a short-circuit in the spacecraft wiring sent a stray signal for the No. 8 manoeuvring jet to fire for nearly an hour, astronauts Neil A. Armstrong and David R. Scott could not fully control the craft.

"It could have happened at any time," Armstrong said. "There is no reason for us to suspect that this particular failure was caused by any particular event or occurrence in the spacecraft."

This being the case, what if the small jet had gone wild while Scott was dangling at the end of a 100-foot tether taking his 2½-hour space walk the next morning?

Scott calls the question a "what if" game because he never took his walk.

**WAS SERIOUS**

Armstrong, who appeared with Scott in a press conference Saturday, agreed the problem would have been "a serious one of course."

But, he added, "the (tumble) rates were small initially and I think that should this occur, or have occurred, Dave might very well have been able to re-enter the cockpit and get the hatch closed."

"There is the possibility," Scott said, "that had I been outside, I could have viewed this and told Neil immediately: 'Your No. 8 thruster is stuck on, turn it off.'"

As it happened, Scott and Armstrong spent several minutes trouble-shooting the problem before they were able to pin it down to the No. 8 jet, one of 16 carefully positioned around the craft to fire on command to keep the craft in proper position.

Dr Robert R. Gilruth, director of the manned spacecraft centre, called the short-circuit "a very remote occurrence." He added, however, that steps are being taken to avoid even the slight possibility of a false signal on a later flight.

"We expect to be able to reach a state where we are confident of going EVA (extra-vehicular activity, commonly called space-walking) on the next Gemini mission," Gilruth said.

The next U.S. manned flight, Gemini 9, is a three-day mission to be taken by Air Force Lt-Col Thomas P. Stafford and Navy Lt-Comdr Eugene A. Cernan, during which Cernan will take a lengthy space walk it currently is on the books for late May.

## ON THE AIR

The following program listings are published free of charge as a public service and appear as presented to us by the stations concerned.

### TUESDAY PROGRAMS

- CFCY-TV**
- 6:30 a.m.—Our Own Business
  - 7:00 a.m.—Gazette
  - 7:30 a.m.—CFCY-TV News
  - 7:55 p.m.—Dept. of Agriculture Program
  - 7:30 p.m.—Gilligan's Island
  - 8:00 p.m.—Big Valley
  - 9:00 p.m.—Red Skelton Hour
  - 10:00 p.m.—Front Page Challenge
  - 10:30 p.m.—Dick Van Dyke
  - 11:00 p.m.—News Magazine
  - 11:30 p.m.—The Public Eye
  - 12:00 p.m.—CFCY-TV News
  - 12:15 p.m.—Local Weather & Sports Scores
  - 12:15 p.m.—Sign Off



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### CKCW-TV

- 9:57 a.m.—Station Sign Off
- 10:00 a.m.—Canadian Schools
- 10:30 a.m.—Our Own Business
- 11:30 a.m.—Friendly Giant
- 11:45 a.m.—Chez Helene
- 12:00 p.m.—Butternut Square
- 12:30 p.m.—Across Canada
- 12:50 p.m.—Tuesday Playbill—Philadelphia Story
- 2:30 p.m.—At Home with Helen Crocker
- 3:00 p.m.—To Tell the Truth
- 3:30 p.m.—Take Thirty
- 4:00 p.m.—World-In-Contrast
- 4:30 p.m.—Razzle Dazzle
- 5:00 p.m.—William Tell
- 5:30 p.m.—Music Hop
- 6:00 p.m.—Supper Club
- 6:25 p.m.—TV News
- 6:50 p.m.—TV Weather
- 6:55 p.m.—TV Sports
- 7:00 p.m.—Supper Club
- 7:30 p.m.—Musical Showcase
- 8:00 p.m.—Dr. Kildare
- 8:30 p.m.—Peyton Place-I
- 9:00 p.m.—Red Skelton
- 10:00 p.m.—Front Page Challenge
- 10:30 p.m.—Dick Van Dyke
- 11:00 p.m.—News Magazine
- 11:30 p.m.—Public Eye
- 12:00 a.m.—CBC National News
- 12:15 a.m.—Viewpoint
- 12:30 a.m.—Lionel Network News
- 12:30 a.m.—Station Sign Off

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# U.S. Imports Of Canadian Oil Expand

WASHINGTON (CP)—Canada supplied 335,600 barrels of oil daily to the United States in the last six months of 1965 or 15.2 per cent of all American imports, the U.S. interior department reports.

Canadian exports represented an increase of 34,600 barrels daily on the corresponding six-month period of 1964, when Canada supplied 14.2 per cent of imported oil.

On the same basis, Venezuelan main foreign supply, had its share decrease to 40.8 per cent from 43.1 per cent. Canadian oil is in second place.

The latest government figures show Canadian oil shipped under the U.S. overland oil exemption totalled 332,986 barrels daily in the last half of last year compared with 298,598 barrels a year earlier.

The increase was in the mid-west where Canadian supplies averaged 184,700 barrels against 150,800 a year ago.

The Canadian share of all imports there rose to 11.2 per cent from 9.8 per cent.

This has been the zone where in the past American oil interests have been most sensitive to Canadian oil.

TOKYO (AP)—A design centre has planned an automobile collision cushion, which it says, it could produce for \$100 a set. Rubber bags inside the car are supposed to inflate within 1.50 second to protect the passengers.

## RIPLEY'S BELIEVE IT OR NOT



## DAILY CROSSWORD

**ACROSS**

- Obscure
- Not many
- Cornbread
- Metallic rocks
- Batons
- Tropical
- Rambler
- Mulberry
- Exclamation
- Holly
- Eight
- Lamprey
- Sun
- Fourth of July
- Follow
- Lights
- Inactive
- According to
- Swiss river
- Three-toed sloth
- Stains
- Sound of the crane
- Archipelago between N. and S. America
- Roman measure
- Forbidden
- Robust
- of the Nibelung
- Genus of ducks
- Tunisian ruler
- British halfpenny

**DOWN**

- Spanish title
- Reference
- Table
- Netting
- Lymphatic gland
- It has banks in Canada and the U.S.A.
- Interlace
- Paleness
- Snick and
- Bodice
- Totally
- Guidonian note
- Pine Tree State
- Teaching
- Hindu unknown god
- Archipelago in Eng. Channel
- One of 12
- Not one
- Beseeches
- Impudent
- Chinese measure
- Deed
- Winglike
- Mad
- Not
- Comic-strip sound effect
- "Twelfth Street" for instance

**Yesterday's Answer**

1. Pine 26. One of 12  
2. Tree 27. Beseeches  
3. State 28. Impudent  
4. abbr. 29. Chinese  
5. abbr. 30. measure  
6. abbr. 31. Deed  
7. abbr. 32. Winglike  
8. abbr. 33. Mad  
9. abbr. 34. Mad  
10. abbr. 35. Mad  
11. abbr. 36. Mad  
12. abbr. 37. Mad  
13. abbr. 38. Mad  
14. abbr. 39. Mad  
15. abbr. 40. Mad  
16. abbr. 41. Mad  
17. abbr. 42. Mad  
18. abbr. 43. Mad  
19. abbr. 44. Mad  
20. abbr. 45. Mad  
21. abbr. 46. Mad  
22. abbr. 47. Mad  
23. abbr. 48. Mad  
24. abbr. 49. Mad  
25. abbr. 50. Mad

## DAILY CRYPTOQUOTE — Here's how to work it:

One letter simply stands for another. In this example A is used for the three L's, X for the two O's, etc. Single letters, apostrophes, the length and formation of the words are all hints. Each day the code letters are different.

**A Cryptogram Quotation**

JH DRUR QHQYXSRB HAR GYCP  
AYG EDVY HAR BARI EGV SR.  
—UJQLJC

Yesterday's Cryptquote: IF NOBODY LOVES YOU BE SURE IT IS YOUR OWN FAULT — DODDRIDGE  
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