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Launch Vehicle Recovery And Reuse

The essential objective of reusing launch vehicles is to reduce the cost of access

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to space. The concept and practice of recovery of elements of a space mission is nearly as old as the early investigations of launch vehicle reuse. In 1960, the first film from a Corona reconnaissance satellite mission was de-orbited and recovered in mid-air

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SpaceX's long term goal is that both
stages of their orbital launch vehicle will

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be designed to allow reuse a few hours after return. The program was publicly announced in 2011. SpaceX first achieved a successful landing and recovery of a first stage in December 2015.

SpaceX reusable launch system development program - Wikipedia

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Standing down from today's Starlink launch due to recovery issue; vehicle and payload remain healthy. Next launch opportunity is tomorrow, September 18 at 1:57 p.m. EDT, but we are keeping an eye ...

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(Update: scrubbed) SpaceX's next Starlink launch to break ...

SpaceX and SMC successfully launched and recovered the GPS III-SV03 booster on June 30, 2020, providing valuable data and insight on reusing the Falcon 9 launch vehicle for future NSSL missions. The booster from the upcoming GPS III-SV04 launch will also be recovered.

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USSF's SMC To Reuse SpaceX Launch Vehicles for GPS ...

Falcon 9 is a partially reusable two-stage-to-orbit medium-lift launch vehicle designed and manufactured by SpaceX in the United States. It is powered by SpaceX Merlin engines, burning cryogenic liquid oxygen and rocket-

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grade kerosene (RP-1) as propellants.

Falcon 9 - Wikipedia

In 2015, United Launch Alliance (ULA) announced its Sensible, Modular, Autonomous Return Technology (SMART) reuse plan for recovery of the booster module for its new Vulcan launch vehicle. That plan employs a non-

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propulsive approach where atmospheric entry, descent and landing (EDL) technologies are utilized.

NASA Technical Reports Server (NTRS)

A reusable launch system is a launch system that includes the recovery of some or all of the component stages. To

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date, several fully reusable suborbital systems and partially reusable orbital systems have been flown. Space Shuttle Discovery launching from Kennedy Space Center Launch Complex 39A at the start of STS-120.

Reusable launch system - Wikipedia

I. History of Launch Vehicle Reuse any

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people assume that fully or partially reusable launch vehicles will result in a significant reduction in the cost of space access. Over the years many methods to reuse rockets have been proposed and pursued. Fly-back boosters were considered during early trades leading to the Space Shuttle, Figure 1.

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Partial Rocket Reuse Using Mid-Air Recovery

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Rocket Lab is getting into the reusable-

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rocket game. The California-based company plans to start recovering and reflying the first stage of its Electron launch vehicle in the near future, Rocket...

Rocket Lab Plans to Snag Falling Boosters with a ...

Rocket Lab is proceeding as planned

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with its efforts to recover and reuse spent rocket boosters from its Electron launch vehicle, and it has completed its first prototype parachute for use in the...

Rocket Lab readies parachute tests for its rocket recovery ...

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presents the results of studies conducted for the National Aeronautics and Space Administration, under Contracts NAS 8-5135 and NAS 811123, on a two-stage Post Saturn Class II launch vehicle.

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Reusing the stage of a small launch vehicle is a complex challenge, as there's little mass margin to dedicate to recovery systems. For a long time, Rocket Lab said the firm wouldn't pursue reusability for this very reason; however, Rocket Lab has been able to develop the technology that could make recovery feasible for Electron.

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