

# T-6 CAPABILITIES CATALOG 2020



**TEXTRON** AVIATION  
DEFENSE

CAPABILITIES / UPGRADES / TRAINING



# PURPOSE

Textron Aviation Defense offers T-6 modifications, kits, upgrades and training programs to meet your unique mission requirements. Even more offerings are currently in development. As they become available during the following months, this catalog will continue to grow.

Based in Wichita, Kansas, the Textron Aviation Defense Modification Center provides installation expertise from the original manufacturer. Our team can also mobilize to perform installations at your location.

# TABLE OF CONTENTS

Capability Upgrades	
Pylon Installation Kit 133-2000	2
Weapons Kit Installation 133-4034	3
External Fuel Tank Installation 133-2000	4
Night Vision Conversion Kit 133-3063	5
Wingtip Light Conversion Kit	6
A/A TACAN	7
Product Improvements	
ECS Screen Kit 133-4044	8
Antenna Gasket Kit 133-3048	8
Engine Preservation Kit 133-9007	9
LED Landing and Taxi Light Kit 133-3064	10
400A Starter Generator Kit 133-3042	11
Auto Ignition Relay Kit 133-3034	11
Avionics and Baggage Bay Door Latch Kit 133-4045	12
Hydraulic Door Latch Kit 133-4010	12
Training Improvements	
JTAC Training Support Flights	13
Pilot Enrichment Training	13
NVG-Compatible Training/Flight	13
Mechanics Enrichment Course Home Base (MECH1)	14
Reference	
Index of Additional New Improvements	16
Contact Information	17
Modification Center	17





## Pylon Installation Kit

133-2000

Installation of electromechanical mast pylons at six hardpoints (three per side) on the bottom of the wing allows operators to carry external stores with 14-inch NATO-standard lug configuration. This capability increases the types of training and flight missions that can be performed.

## Weapons Kit Installation

133-4034

Installation of the weapons systems-related components (along with the 133-4033 kit) provides operators with the ability to carry and drop ordnance. A variety of different configurations are available using the six under-wing hardpoints, including air-to-ground stores, air-to-air stores, external fuel tanks and various sensor pods.





## External Fuel Tank Installation

133-2000

Installation of the external fuel tanks gives operators the ability to conduct longer missions and/or training exercises. Each tank has a maximum design fuel capacity of 67.2 gallons.



## Night Vision Conversion Kit

133-3063

Converts all interior lights and cockpit displays to night vision-compatible devices, increasing the capabilities of the airplane in different training and operating environments.

See page 13 for information about night vision goggles (NVG) training for aircrew.





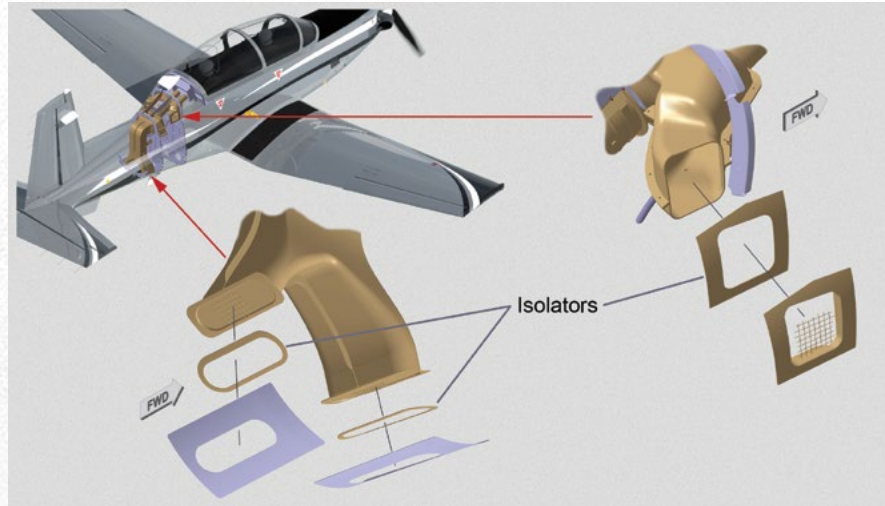
## Wingtip Light Conversion Kit

This kit replaces incandescent exterior position lights with NVG-compatible LED lights, reducing maintenance requirements and allowing pilots to fly in formation while wearing night vision devices.

## A/A TACAN

Provides air-to-air ranging for multiple aircraft, increasing the number of dynamic maneuvering training missions that can be flown using the T-6.

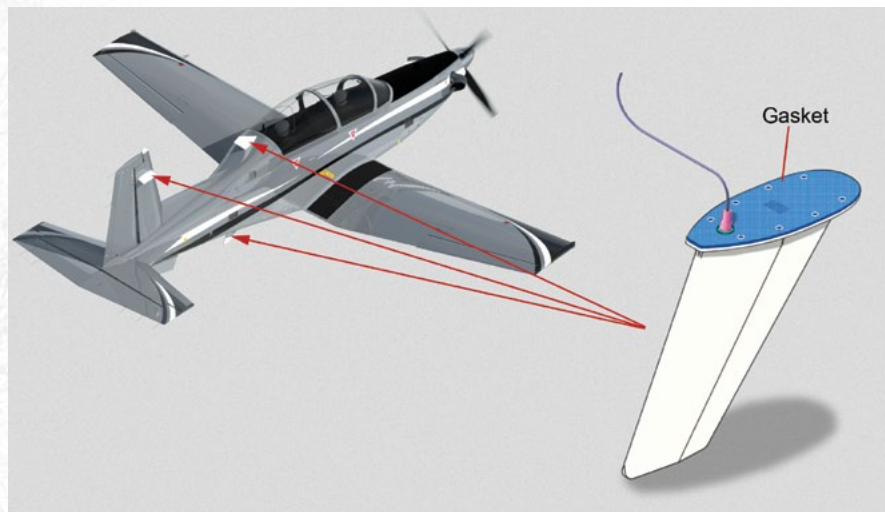




## ECS Screen Kit

133-4044

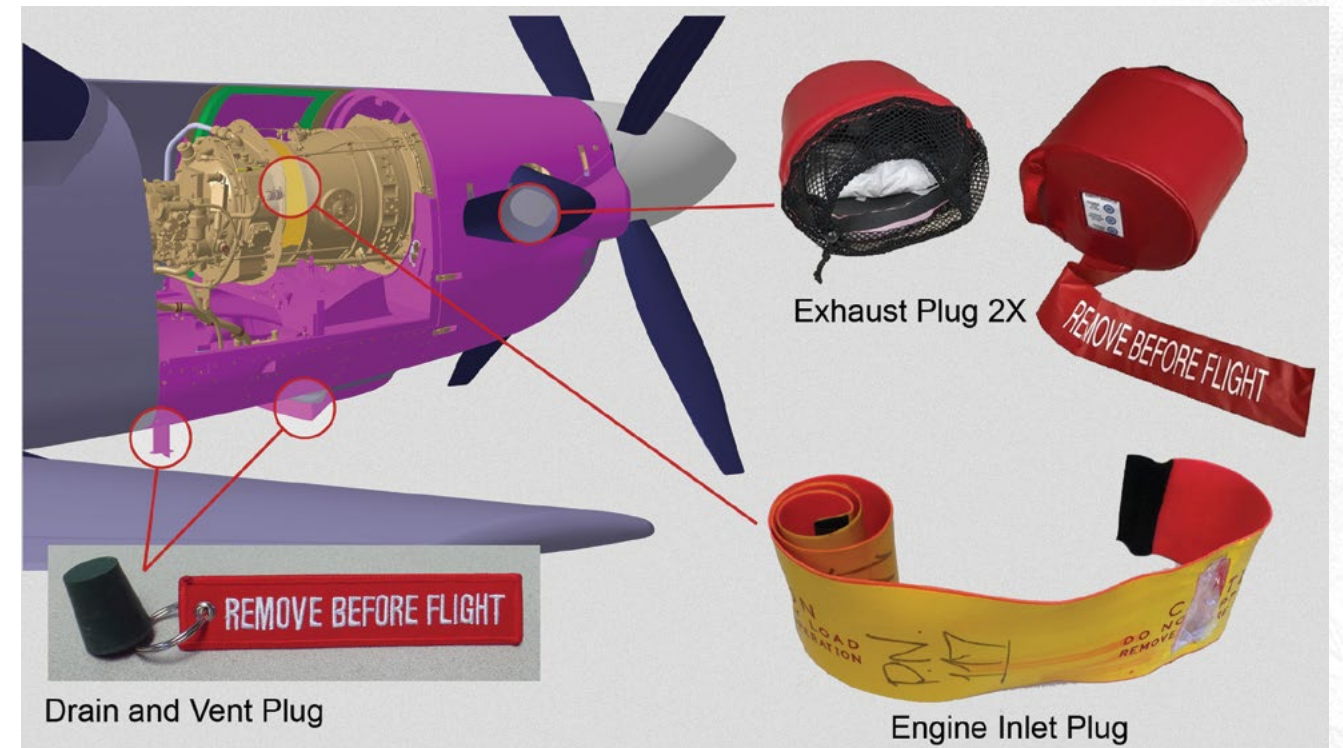
This kit reduces galvanic (metal-on-metal) corrosion to the aircraft skin at the ECS inlet and exhaust screens.



## Antenna Gasket Kit

133-3048

The Antenna Gasket Kit provides upgraded corrosion resistance for aircraft operating in highly corrosive environments. Specially designed for coastal bases, this kit reduces the severity of Level 2 corrosion at each antenna-skin mating surface.



## Engine Preservation Kit

133-9007

The Engine Preservation Kit simplifies and improves the sealing and monitoring requirements of an inactive engine. Installation of the kit takes 80% less time than previous methods and significantly reduces repair costs due to corrosion.

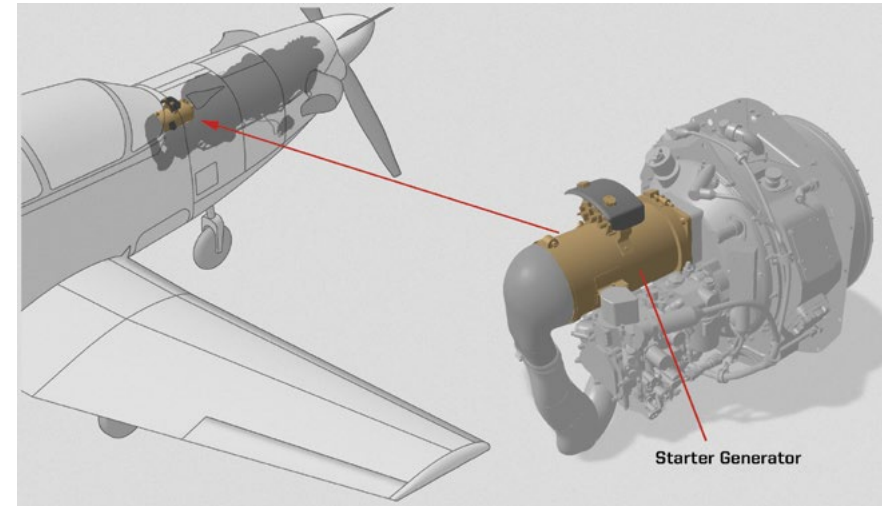




## LED Landing and Taxi Light Kit

133-3064

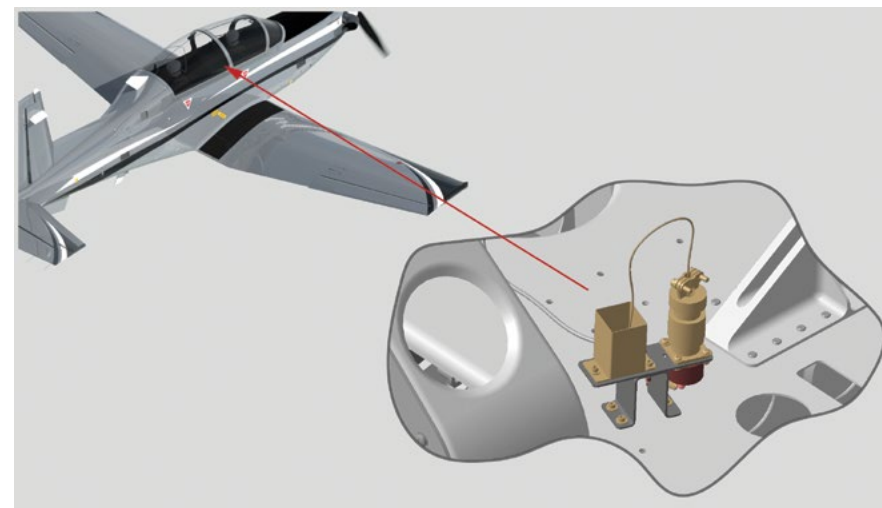
This kit provides the required hardware to replace halogen lightbulbs with LED bulbs on the landing and taxi lights. With significantly longer life spans, these bulbs will reduce maintenance requirements and improve aircraft availability.



## 400A Starter Generator Kit

133-3042

A 400A starter generator will improve engine start reliability and provide additional electrical power for specialized components.

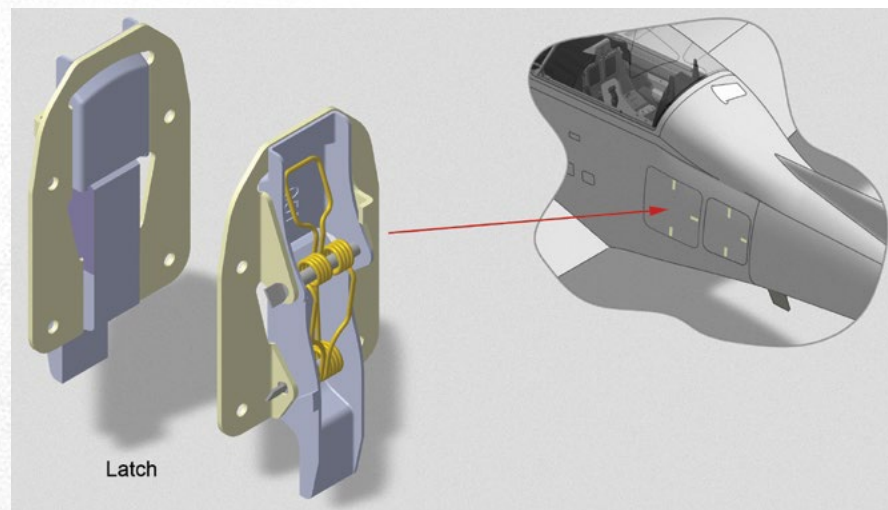


## Auto Ignition Relay Kit

133-3034

The removal and replacement of the current relay (part number KM-U5AL) is labor-intensive. The new solid state relay has a significantly increased life span, and the redesigned mounting bracket allows easier removal and installation by maintenance personnel.

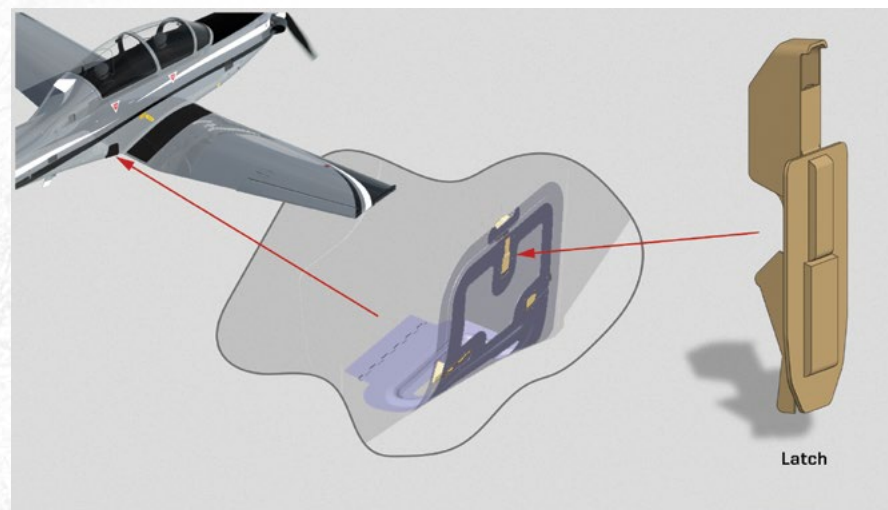




## Avionics and Baggage Bay Door Latch Kit

133-4045

The enhanced latch design significantly reduces the likelihood of latch deformation, door opening and structural damage during high angle-of-attack maneuvers.



## Hydraulic Door Latch Kit

133-4010

This enhanced latch design improves the operation and security of the hydraulic service door upper latch.

## JTAC Training Support Flights

The T-6C+ can be used for joint terminal air control (JTAC) and other forms of close air support (CAS) training missions. The T-6C+ is capable of carrying a multitude of actual, inert and simulated stores. For additional training and employment capabilities, the AT-6 WOLVERINE aircraft is also available.



## Pilot Enrichment Training

Textron Aviation Defense can provide expert pilots to support enrichment training for T-6 initial and advanced instruction, standardization across the fleet, development of advanced tactics or functional check flight qualifications.



## NVG-Compatible Training/Flight

Textron Aviation Defense can provide initial or refresher training to aircrews looking to optimize their NVG operations. Flights can be conducted at home base or at the T-6 Center of Excellence in Wichita, Kansas.







#### MECHANICS ENRICHMENT COURSE

MECH1 provides a variety of courses for maintainers, including a combination of academics and on-the-job training.

## Mechanics Enrichment Course Home Base (MECH1)

There's no doubt that a skilled mechanic helps extend the service life of an aircraft. This course develops the technical knowledge of mechanics so they can perform effective maintenance. Training is conducted by our top T-6 experts at the aircraft's home base. MECH1 training is also available for T-1A Jayhawk.

For more information, email [mech1@txtav.com](mailto:mech1@txtav.com).

#### MECH 1 COURSE TOPICS

Flight Control Rigging and Balancing  
Engine and Prop Rigging  
Egress Systems  
Hydraulic Systems  
Landing Gear Rigging  
Flight Surfaces Rigging  
Avionics System Troubleshooting



## INDEX OF ADDITIONAL NEW IMPROVEMENTS

AOA Indexer Disconnect (133-3009)  
Oil Pressure Annunciator – Amber (133-3016)  
ME-406 ELT System Installation (133-3018)  
Three-Mode ISS Valve (133-4024)  
Smoke Kit (133-4031)  
Rib 1 Durability Enhancement Kit (133-4051)  
Inboard/Outboard Hinge Retention Pin (133-4053)  
Condenser Blower Replacement (133-5008)  
Nose Wheel Centering (133-5010)  
ASV Regulator Upgrade (133-5015)  
Rudder Trim Upgrade (133-5018)  
Elevator Trim Upgrade (133-5019)  
OBOGS Heat Exchanger (133-5023)  
Hydraulic Pressure Tube Clamping Kit (133-5032)  
Rudder Retaining Cap (133-5036)  
Temporary Seat kit (133-5037)  
Camera Mount Installation Kit (133-5911)  
Oil Filler Cap (133-9004)  
Quick Engine Change (133-9005)  
Pressure Relief Shut Off Valve Kit (133-9008)

## INNOVATION FROM THE HEARTLAND

Proud. Proven. Purpose-built for the war fighter. The BEECHCRAFT T-6 Texan II aircraft is manufactured by Textron Aviation Defense, headquartered in the Air Capital of the World – Wichita, Kansas. Wichita has a rich aviation history that dates back to the founding of Cessna in 1927 and Beechcraft in 1932. These Textron

Aviation brands have served military customers for more than 90 years. With a global fleet surpassing 3.3 million flight hours, the T-6 Texan II is the bestselling military flight trainer on the market and delivers an unbeatable record of reliability. The T-6A, T-6B, T-6C and T-6D produce the world's most formidable aviators.

## CONTACT INFORMATION

### CAPABILITIES AND PRODUCTS

CHIP SCHELLHORN  
Director of Aftermarket Sales

**PHONE** +1.316.515.5174

**MOBILE** +1.316.866.9061

**EMAIL** cshellhorn@txtav.com

### TRAINING

MICHAEL RAMBO  
Director of Training

**PHONE** +1.316.515.5659

**MOBILE** +1.316.295.7987

**EMAIL** mrambo@txtav.com

Please contact us for pricing (to include technical publication updates, if desired) and lead times, which will be provided to meet your specific requirements. We would also like to discuss additional kits to address your unique and special needs.

## MODIFICATION CENTER

Our Modification Center provides a designated location for installing new kits and parts, performing tests, and repairing or servicing T-6 aircraft.







Textron Aviation is a member of the Textron family of iconic products, which includes globally recognized aviation businesses Bell, ATAC and TRU Simulation + Training.



U.S. +1.844.44.TXTAV | INTERNATIONAL +1.316.517.8270 | DEFENSE.TXTAV.COM

This document is intended to provide information for T-6 Kits offered by Textron Aviation Defense and third-party suppliers. Whereas Textron Aviation Defense makes every effort to ensure that the data contained in this catalog is accurate, it is not intended to be a formal declaration of performance or equipment specification. Textron Aviation Defense makes no warranty or guarantee that any particular modification will meet the needs of the customer. The customer shall rely on his or her own judgment and expertise in determining whether a particular modification is appropriate for the aircraft and the mission. Although each of the individual items offered in the catalog may have its own airworthiness approval, the installation of multiple modifications could result in a requirement for additional evaluation to ensure airworthiness of the modified aircraft. Textron Aviation Defense reserves the right to modify, supersede, cancel or declare obsolete any item, configuration or specification within this catalog without prior notice.

The sale and export of T-6 variant aircraft, as well as the associated kits, maintenance support and any unique technical data, requires USG export license approval under the International Traffic in Arms Regulations (22 CFR Parts 120-130) or the Export Administration Regulations (15 CFR Parts 730-774).

Images may show optional equipment. © 2020 Textron Aviation Defense LLC. All rights reserved. WOLVERINE and BEEHCRAFT are trademarks or service marks of Textron Aviation Inc. or an affiliate and may be registered in the United States or other jurisdictions.