

Lockheed F 117 Nighthawk Stealth Fighter Manual Haynes Owners Workshop Manual

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The Complete Book of the SR-71 Blackbird - Richard H. Graham 2015-10-26
The ultimate SR-71 book which profiles the history, development, manufacture, modification, and active service of all 50 models in the SR-71

program. At the height of the Cold War in 1964, President Johnson announced a new aircraft dedicated to strategic reconnaissance. The Lockheed SR-71 Blackbird spy plane flew more than three-and-a-half times the speed of sound--so

fast that no other aircraft could catch it. Above 80,000 feet, its pilots had to wear full-pressure flight suits similar to what was used aboard the space shuttle. Developed by the renowned Lockheed Skunk Works, the SR-71 was an awesome aircraft in every respect. It was withdrawn from use in 1998, when it was superseded by satellite technology. Twelve of the thirty-two aircraft were destroyed in accidents, but none were ever lost to enemy action. Throughout its thirty-four-year career, the SR-71 was the world's fastest and highest-flying operational manned aircraft. It set world records for altitude and speed: an absolute altitude record of 85,069 feet and an absolute speed record of 2,193.2 miles per hour. The Complete Book of the SR-71 Blackbird covers every aspect of the SR-71's development, manufacture, modification, and active service from the insider's perspective of one of its pilots and is lavishly illustrated with more than 400 photos. Former pilot and author Richard Graham also examines each of

the fifty planes that came out the SR-71 program (fifteen A-12s; three YF-12s; and thirty-two SR-71s) and tells each plane's history, its unique specifications, and where each currently resides.

[Search and rescue, satellite system](#) - 1988

Avro Lancaster Manual -

Jarrold Cotter 2008-07-15

The legendary Avro Lancaster receives the famous Haynes manual treatment with the full co-operation and authorization of the Royal Air Force. Here is a unique perspective on what it takes to restore and operate a Lancaster, as well as a wonderful insight into the engineering and construction of this remarkable airplane. Presented mainly in color, this highly detailed and attractively designed book is based primarily around the major overhaul of the Battle of Britain Flight Lancaster at RAF Coningsby.

Lockheed F-117 Night

Hawks - Don Logan

2009-01-01

This pictorial book is a history

of the F-117 Night Hawk Stealth Fighter containing over 400 color photographs. It is a Roll Call of the F-117 with individual history and photos of each F-117. In addition the book includes a short program history; operating locations and air force bases, production sites associated with the F-117; F-117 Units, F-117 aircraft, and Information and photos of the A-7 and T-38 aircraft used to support the F-117 program. Though the photos cover the full history of the F-117 program, many of the photos were taken in the last two years at bases including Holloman AFB, Nellis AFB, and Edwards AFB.

Fairchild Republic A-10

Thunderbolt II - Steve Davies
2017-06-10

Dubbed 'Warthog' - or just 'Hog' - by those who fly and maintain it, the Fairchild Republic A-10 Thunderbolt II is the world's undisputed close air support attack jet. As tough as it is ugly, it has built a fearsome reputation as a tank buster and infantry killer in conflicts around the globe, and its GAU-8

Avenger 30mm cannon strikes fear into the hearts of all unlucky enough to be on the wrong side of it. The A-10 was clutched from the jaws of retirement by the 1991 Gulf War. At the time of the conflict, the United States Air Force was making plans to shed its A-10 fleet, citing obsolescence and redundancy. As the ensuing conflict showed, nothing could have been further from the truth, and no other airframe could have provided the US and Coalition commanders with the sort of forward air control, close air support, combat search and rescue, and tank busting capabilities that the Hog did. Since then the A-10 has delivered capabilities to battlefield commanders in the Balkans (1990s), Afghanistan (2001 onwards) and the second Gulf War (2003 onwards), and Libya (2011). A-10s have flown around 11 per cent of Operation Inherent Resolve sorties (striking IS targets in Iraq) since combat operations began in August 2014.
Collins International Primary Maths - Student's Book 1 - Lisa

Jarmin 2021-06-14

Collins International Primary Maths supports best practice in primary maths teaching, whilst encouraging teacher professionalism and autonomy. A wealth of supporting digital assets are provided for every lesson, including slideshows, animations, tools and games to ensure they are rich, lively and engaging.

McDonnell Douglas F/A-18 Hornet and Super Hornet -

Steve Davies 2017-03-01

The US-designed and built McDonnell Douglas F/A-18 Hornet is one of the most important Fourth Generation fighters in the world. Its twin-engine, twin-tails (canted outwards), and leading edge root extensions make it one of the most recognizable fighters in operation. The latest version is the enlarged Super Hornet. It was controversial in being chosen as the replacement for the much loved F-14 Tomcat, but the truth is that it is a potent and fearsome fighter that boasts one of the most capable radars in service and a weapons loadout that takes full

advantage of it. The Super Hornet currently performs the bulk of the Western world's airstrikes on the nefarious terrorist group 'ISIS' in Iraq and Syria. Developed initially by Northrop as the P-530 Cobra in response to the US Air Force's Light Weight Fighter competition (winner: the General Dynamics F-16), the Hornet had a troubled start in life. Designated the YF-17 for the LWF fly-off in 1974, it failed to impress the Air Force. However, contractor McDonnell Douglas stepped in confident that it could be improved sufficiently to make it a contender for the US Navy's new fighter competition. McAir, as was often the case, were right. Re-designed and re-designated the F/A-18 (fighter/attack), it won the competition and entered service with the US Navy as a carrier-borne, multi-role fighter, marking the beginning of the Hornet's journey from Air Force 'reject' to 'king' of the US Navy's Fleet Defenders **Lockheed Aircraft** - Michael Badrocke 1998-07-24

With close technical analysis from Bill Gunston and artist Mike Badrocke's meticulous cutaway drawings, presented to the best effect on fold-out pages, this volume tells the full story of the most innovative aircraft company in the world.

Green Aviation - Ramesh Agarwal 2016-09-20

Green Aviation is the first authoritative overview of both engineering and operational measures to mitigate the environmental impact of aviation. It addresses the current status of measures to reduce the environmental impact of air travel. The chapters cover such items as: Engineering and technology-related subjects (aerodynamics, engines, fuels, structures, etc.), Operations (air traffic management and infrastructure) Policy and regulatory aspects regarding atmospheric and noise pollution. With contributions from leading experts, this volume is intended to be a valuable addition, and useful resource, for aerospace manufacturers and suppliers,

governmental and industrial aerospace research establishments, airline and aviation industries, university engineering and science departments, and industry analysts, consultants, and researchers.

F-117 Stealth Fighter Units of Operation Desert Storm -

Warren Thompson 2012-11-20

During the final years of the 20th century, the most significant break-through in military weaponry was the concept of Stealth technology, and the first mass-produced weapon to utilize this to perfection was the F-117 Nighthawk. Originally delivered in 1982, its existence was officially denied until the Iraqi invasion of Kuwait, when it entered the public spotlight over the skies of Baghdad. Illustrated with stunning color photographs of the F-117 above Iraq, and complemented by numerous personal accounts from the pilots themselves, this book explores the history and combat experience of one of the most secretive planes ever built.

Lockheed F-117 Nighthawk 'Stealth Fighter' Manual -

Paul F. Crickmore 2016-02-01

By the time the so-called 'Stealth Fighter' was acknowledged to the world in November 1988 it had already been in service with the USAF for five years. A product of the Lockheed Skunk Works, the F-117 Nighthawk was the first operational aircraft to be designed around stealth technology. Although popularly known as the stealth fighter it was actually a ground-attack aircraft.

Estimating Market Value and Establishing Market Rent at Small Airports -

Aviation Management Consulting Group, Inc 2020
"Staff from smaller airports typically lack specialized expertise in the negotiation and development of airport property or the resources to hire consultants. ACRP Research Report 213 provides airport management, policymakers, and staff a resource for developing and leasing airport land and improvements, methodologies for determining

market value and appropriate rents, and best practices for negotiating and re-evaluating current lease agreements.

There are many factors that can go into the analysis, and this report reviews best practices in property development."--Foreword.

NASA Space Shuttle Manual -
David Baker 2011-04-18

Designed between 1969 and 1972 and first flown into space in 1981, the NASA Shuttle will have flown almost 140 missions by the time it is retired in 2011.

David Baker describes the origin of the reusable launch vehicle concept during the 1960s, its evolution into a viable flying machine in the early 1970s, and its subsequent design, engineering, construction, and operation.

The Shuttle's internal layout and systems are explained, including the operation of life support, electrical-power production, cooling, propulsion, flight control, communications, landing, and avionics systems.

Grumman F-14 Tomcat Owners' Workshop Manual - Tony

Holmes 2018-06-05

Probably best-known for its starring role in the Hollywood blockbuster *Top Gun*, the US Navy's Grumman F-14 Tomcat is a supersonic, variable geometry, two-seat, carrier-based, air superiority fighter. The Tomcat was developed for the US Navy's Naval Fighter Experimental (VFX) program following the collapse of the F-111B project. The Grumman F-14 Tomcat Owners' Workshop Manual covers operating and maintaining this aircraft, and is filled with first-person insights into flying the Tomcat.

Area 51 - Black Jets - Bill Yenne
2018-02-20

Area 51's most important military aviation developments are profiled in an illustrated format. When most of us think of Area 51, we think of aliens, UFOs, and controversial government cover-ups. It's easy to forget that, since the mid-1950s, the United States' famed extension of Edwards Air Force Base has served as a top-secret CIA testing ground for many of the most groundbreaking advancements in American military aviation

technology. In *Area 51 - Black Jets*, author and military historian Bill Yenne offers the first fully illustrated chronology of Area 51's most famous aircraft projects, including Lockheed's U-2 "Dragon Lady" and SR-71 "Blackbird" reconnaissance planes, drones ranging from the early Lockheed D-21 to the modern-day General Atomics MQ-1 Predator, and the famous F-117 Nighthawk stealth fighter produced by the Have Blue program during the 1970s. Each project is given its own fascinating chapter illuminating the aircraft's development at this famed location. But beyond the aircraft themselves, *Area 51 - Black Jets* also covers a handful of the many classified experimental programs carried out at Area 51 over the years, such as Have Doughnut, Have Ferry, and Have Drill - secret undertakings that successfully reverse-engineered such enemy aircraft as the Russian MiG during the Cold War. Presented in beautiful hardcover format and illustrated with historic color

and black-and-white photographs, diagrams, and maps, this book reveals Area 51 for what it truly is: a clandestine area for the United States' most cutting-edge technological innovators in military aviation.

[Ships and Submarines](#) - Price Stern Sloan Publishing
1987-02-25

Looks at the technology behind the development of modern day ships. Also examines the advances in weapons systems and the evolution of today's submarines.

[Area 51](#) - Dwight Zimmerman
2014-11-03

Looks at the history of the secretive military base Area 51 and its testing of aircraft.

SR-71 Flight Manual - Richard H. Graham 2016-10-01
This is the reprinted facsimile edition of the manual issued to crew members of the US Air Force's sleek SR-71, now available with photos and annotations by former Blackbird pilot Richard Graham. The Lockheed SR-71 Blackbird was a long-range, Mach 3 reconnaissance aircraft

developed by Lockheed's top-secret Skunk Works. One of the first aircraft designed to have a low radar signature, the SR-71 could map 100,000 square miles from an altitude of 80,000 feet. Operational from 1964 to 1998, it is still the fastest jet-powered aircraft - a Blackbird once completed a Los Angeles-to-Washington, D.C. flight in 64 minutes. Naturally, reigning in all that technology and performance required some know-how on the parts of the pilots and ground crews. This massive volume, the SR-71 Flight Manual, is a facsimile reprint of the official flight manual issued to SR-71 crew members augmented with anecdotes and descriptions of flight procedures from former SR-71 pilot Col. Richard Graham (Ret.). Divided into seven sections, the book covers in minute detail everything from the SR-71 trainer to normal and emergency operation procedures, navigation and sensor equipment, operating limitations, flight characteristics of the Blackbird, and all-weather operation. Now the

official SR-71 flight manual is not only declassified, it's (at least partially) demystified as well!

Aviation Year by Year - Bill Gunston 1992

Chronicles the history of aviation, from Leonardo da Vinci's development of plans for flying machines around the year 1500, to the first circumnavigation of the world by balloon in the late twentieth century.

Historical Dictionary of Air Intelligence - Glenmore S.

Trehear-Harvey 2009-04-13

From the moment man learned how to ascend off the ground, the strategic significance of air intelligence became apparent. This relatively new discipline_the first dedicated air reconnaissance missions were undertaken in 1870 during the siege of Paris when tethered French balloons were employed to spot enemy positions and direct artillery fire onto them_has developed at an astonishing speed. Over the past century air intelligence has moved from hazardous observation balloons to micro-

circuitry, which can send pictures from a video camera mounted on a remotely-controlled vehicle the size of a hummingbird. The Historical Dictionary of Air Intelligence relates the evolving history of the rapidly advancing field of air intelligence. A chronology, an introductory essay, and cross-referenced dictionary entries on the agencies, agents, operations, equipment, tradecraft, and jargon of air intelligence make this reference as essential as it is fascinating.

The Word Rhythm Dictionary -

Timothy Polashek 2014-04-18

This new kind of dictionary reflects the use of "rhythm rhymes" by rappers, poets, and songwriters of today. Users can look up words to find collections of words that have the same rhythm as the original and are useable in ways that are familiar to us in everything from vers libre poetry to the lyrics and music of Bob Dylan and hip hop groups.

Project Based Teaching - Suzie Boss 2018-09-20

It's no secret that in today's

complex world, students face unparalleled demands as they prepare for college, careers, and active citizenship. However, those demands won't be met without a fundamental shift from traditional, teacher-centered instruction toward innovative, student-centered teaching and learning. For schools ready to make such a shift, project-based learning (PBL) offers a proven framework to help students be better equipped to tackle future challenges. Project Based Teachers encourage active questioning, curiosity, and peer learning; create learning environments in which every student has a voice; and have a mastery of content but are also comfortable responding to students' questions by saying, "I don't know. Let's find out together." In this book, Suzie Boss and John Larmer build on the framework for Gold Standard PBL originally presented in Setting the Standard for Project Based Learning and explore the seven practices integral to Project Based Teaching: Build the

Culture Design and Plan Align to Standards Manage Activities Assess Student Learning Scaffold Student Learning Engage and Coach For each practice, the authors present a wide range of practical strategies and include teachers' reflections about and suggestions from their classroom experiences. This book and a related series of free videos provide a detailed look at what's happening in PBL classrooms from the perspective of the Project Based Teacher. Let's find out together. A copublication of ASCD and Buck Institute for Education (BIE).

[M1 Abrams Main Battle Tank Manual](#) - Bruce Oliver Newsome
2017-06-10

The American M1 Abrams main battle tank is a revolutionary design: it broke an evolutionary development lineage from the M20 medium tank of 1941 to the M60 (which it replaced, and which stayed in production until 1987). The M1 remains the only main battle tank in the inventories of the US Army and the US Marine Corps, with years

of service to come, while no replacement has been procured. It is believed that the M1 will easily serve for more than 50 years in the US alone. The US retains about 6,000 M1s, while almost 2,000 are in use with the armies of other countries including Australia, Egypt, Iraq, Kuwait, and Saudi Arabia.

Tree Shaker - Bill Keller
2013-12-24

The story of Nelson Mandela who challenged apartheid in South Africa and who went on to become the president of the country.

Affective Health and Masculinities in South Africa

- Hans Reihling 2020-04-24
Affective Health and Masculinities in South Africa explores how different masculinities modulate substance use, interpersonal violence, suicidality, and AIDS as well as recovery cross-culturally. With a focus on three male protagonists living in very distinct urban areas of Cape Town, this comparative ethnography shows that men's struggles to become

invulnerable increase vulnerability. Through an analysis of masculinities as social assemblages, the study shows how affective health problems are tied to modern individualism rather than African 'tradition' that has become a cliché in Eurocentric gender studies. Affective health is conceptualized as a balancing act between autonomy and connectivity that after colonialism and apartheid has become compromised through the imperative of self-reliance. This book provides a rare perspective on young men's vulnerability in everyday life that may affect the reader and spark discussion about how masculinities in relationships shape physical and psychological health. Moreover, it shows how men change in the face of distress in ways that may look different than global health and gender-transformative approaches envision. Thick descriptions of actual events over the life course make the study accessible to both graduate and undergraduate students in the

social sciences. Contributing to current debates on mental health and masculinity, this volume will be of interest to scholars from various disciplines including anthropology, gender studies, African studies, psychology, and global health.

Advanced Tactical Fighter to F-22 Raptor - David C. Aronstein 1998

Lockheed F-117 Nighthawk Stealth Fighter - Paul F. Crickmore 2014-10-20
Developed by the legendary Lockheed 'Skunk Works,' the F-117 Nighthawk was a phenomenal technical achievement. Featuring cutaways, detail plates and battlescene artwork, this book tells the incredible story of the design of the machine, from the revolutionary materials used to the highly advanced computer technology that was employed to make the Stealth Fighter invisible to enemy radar. Written by the world's leading authority on the aircraft from Lockheed's 'Skunk Works', Paul Crickmore, this book reveals

the impact the Stealth had in combat over Panama, Yugoslavia and most notably the Persian Gulf.

The Focke-Wulf 190 - Heinz J. Nowarra 1965

Beskrivelse af Luftwaffe-jagerflyet Fw 190 kendt fra 2. verdenskrig.

The Last of NASA's Original Pilot Astronauts - David J. Shayler 2017-06-19

Resulting from the authors' deep research into these two pre-Shuttle astronaut groups, many intriguing and untold stories behind the selection process are revealed in the book. The often extraordinary backgrounds and personal ambitions of these skilled pilots, chosen to continue NASA's exploration and knowledge of the space frontier, are also examined. In April 1966 NASA selected 19 pilot astronauts whose training was specifically targeted to the Apollo lunar landing missions and the Earth-orbiting Skylab space station. Three years later, following the sudden cancellation of the USAF's highly classified Manned Orbiting Laboratory (MOL)

project, seven military astronauts were also co-opted into NASA's space program. This book represents the final chapter by the authors in the story of American astronaut selections prior to the era of the Space Shuttle. Through personal interviews and original NASA documentation, readers will also gain a true insight into a remarkable age of space travel as it unfolded in the late 1960s, and the men who flew those historic missions.

NASA Moon Missions Operations

Manual - Dr. David Baker

2019-07-09

Published to coincide with the 50th anniversary of the first Moon landing by Apollo 11. The story of Apollo has been told many times, but most accounts stop at the first landing. This book picks up where others have left off, and describes the five post-Apollo 11 Moon landings, defined as technical developments built upon engineering excellence. It was only through the robust design adopted when aerospace contractors first designed and built the Apollo spacecraft and

the Lunar Module that successive evolutions were possible, taking lunar-landing operations far beyond what had first been envisaged. This book is not intended to tell the full story of each mission, but rather to describe the technical development of spacecraft and equipment necessary to grow the capability from a single EVA ('moonwalk') of less than three hours, to advanced missions where astronauts spent three full working days exploring their landing sites. With the aid of a Lunar Roving Vehicle, they collected a wide variety of rocks and soil and left a range of instruments at the surface powered by a thermonuclear generator. As interest grows in humans returning to the Moon, 50 years on from those pioneering days of lunar exploration, we look again at what was accomplished at the dawn of the Space Age, spurred on by a political goal and developed as a tool for science. The story of the Apollo Moon missions is an expression of those achievements.

F-117 Nighthawk Stealth

Fighter - Yancy D. Mailes 2006
The F-117 Nighthawk was the world's first operational aircraft designed and built to utilize stealth technology. It was developed specifically to attack high-value targets and escape without being detected by hostile radar systems. The F-117 first saw action during Operation Just Cause in Panama in December 1989, it owned the skies over Iraq during Desert Storm in early 1991, and it supplemented NATO's Operation Allied Force in Yugoslavia and Kosovo. This photography-driven history follows the design, construction, and flight-testing of BLUE-01 and BLUE-02, Lockheed's original demonstrator aircraft. The focus then shifts to the Scorpion Flight Test Team and the development of the F-117 from its first flight through its Initial Operational Capability approval. Only recently has the veil of secrecy surrounding the F-117 and its history been lifted, allowing the general public to learn about this groundbreaking aircraft and its

amazing development team. F-117 Stealth Fighter Photo Scrapbook contains never-before-seen photography covering the design, construction, and development of the F-117 and its service history in Operation Desert Storm.

F-117 Nighthawk - Paul Crickmore 2003

The F-117 has proved itself to be an important weapon whenever the US Air Force is called into action. This volume profiles this American stealth aircraft.

Contrails - United States Air Force Academy 1998

Battletech Field Manual 3085 - Joel Bancroft-Connors
2012-02-01

McDonnell Douglas/Boeing F-15 Eagle Manual - Steve Davies 2014-11-01

The McDonnell Douglas F-15 Eagle is a twin-engine, highly maneuverable, all-weather tactical jet fighter, designed to gain and maintain air superiority in aerial combat. It is considered among the most

successful of modern jet fighters with 104 aerial combat victories to its credit, with no losses (combined figure across all user-air forces). The F-15 Eagle first flew in July 1972 and entered service with the USAF in 1976. It is expected to remain in service with the USAF until 2025.

Flight - R.G. Grant 2017-05-02

"Discover the fascinating stories behind humankind's conquest of the skies, from dreamers and inventors to modern-day astronauts. Take a sky-high journey through the Wright brothers' first powered flight, to Concorde's final voyage, to the tragic crash of the Columbia, and more, in this stunning book packed with information on the history of aviation. Charting the trailblazers, jet test pilots, and constant progress at the cutting-edge of technology, every aspect of flight is explored. Recalling memorable events of the sky - record-breaking flights, aerial warfare, and hijackings - Flight is the story of how our dream to fly became a reality. This visual

guide features remarkable photography on every page and galleries throughout to showcase important aircraft - with multiple viewpoints and their key statistics. Anyone interested in airplanes and vehicles of the sky, and their inventors, engineers, and pilots should have this book on their shelf.

Theory and Practice of Aircraft Performance - Ajoy

Kumar Kundu 2016-09-26

Textbook introducing the fundamentals of aircraft performance using industry standards and examples: bridging the gap between academia and industry Provides an extensive and detailed treatment of all segments of mission profile and overall aircraft performance Considers operating costs, safety, environmental and related systems issues Includes worked examples relating to current aircraft (Learjet 45, Tucano Turboprop Trainer, Advanced Jet Trainer and Airbus A320 types of aircraft) Suitable as a textbook for aircraft performance courses

From Archangel to Senior Crown - Peter W. Merlin 2008

The Lockheed Blackbirds hold a unique place in the development of aeronautics. In their day, the A-12, YF-12, M-21, D-21, and SR-71 variants outperformed all other jet airplanes in terms of altitude and speed. Now retired, they remain the only production aircraft capable of sustained Mach 3 cruise and operational altitudes above 80,000 feet. This is the first book to address the technical aspects of these incredible aircraft. The author describes the design evolution of the Blackbird, from the Archangel to the Senior Crown (the Air Force's SR-71.) He describes in detail the construction and materials challenges faced by Lockheed, as well as the Blackbird's performance characteristics and capabilities. A NASA historian, the author describes NASA's role in using the aircraft as a flying laboratory to collect data on materials, structures, loads, heating, aerodynamics, and performance for high-speed aircraft. The reader will

benefit from the technical and programmatic lessons learned. This volume was produced in cooperation with the National Aeronautics and Space Administration.

SR-71 Blackbird : Stories, Tales, and Legends - Richard H. Graham

Feel the Mach 3 power generated by Lockheed's incredibly fast SR-71 Blackbird! Former SR-71 pilot, instructor and wing commander, Richard Graham, presents the most intriguing SR-71 stories ever told. This once highly classified program is fully revealed through the words of pilots, commanders, mechanics, and instructors involved in the Blackbird's creation and flight-testing. From grueling reconnaissance missions to the Persian Gulf conflict, this insightful book tells stories of bravery and daring determination.

General Dynamics F-16 Fighting Falcon Manual - Steve Davies
2014-02-06

Officially called the Fighting Falcon by the USAF (a name loathed by pilots and ground

crews), the F-16 is popularly referred to as the "Viper". First introduced into service with the USAF in 1978, the F-16 is a successful all-weather multi-role jet fighter of which more than 4,500 have been built and exported to 25 countries worldwide. It remains in service more than 30 years later. The Viper incorporates a number of innovative design features that include a frameless bubble

canopy for better visibility, pilot's side-mounted control stick for ease of control when manoeuvring, a seat reclined 30 degrees to reduce the effect of g-forces on the pilot, and the first use of a relaxed static stability/fly-by-wire flight control system that makes the Viper a highly agile aircraft. At the 'business end' the F-16 has an internal M61 Vulcan cannon and eleven weapon-mounting stations.