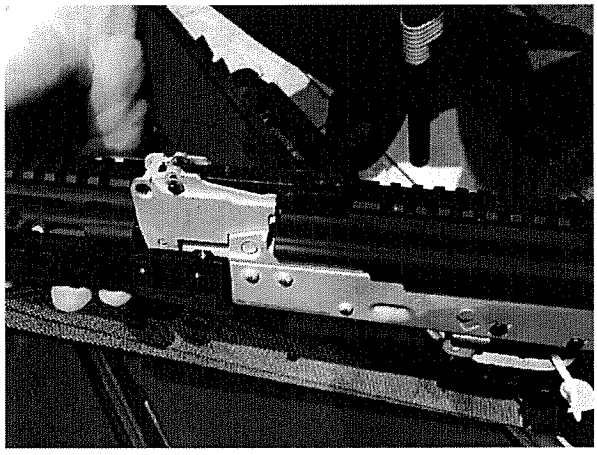
Texas Weapon Systems (TWS) Flip-Up Gen-3 Dog Leg Rail AK Top-Rail Cover and Gen-3 AK Tactical Hand Guard (M-LOK) System for Mounting Variable-Power Combat Optics on the Kalashnikov AK-47/AKM/AK-74 Rifle/Carbine/SBR Platform(s)! (Video!)

David Crane

By David Crane
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April 26, 2016
Last updated on 4/27/16.



One of the things DefenseReview (DR) enjoys most about SHOT Show is finding cool new products made by small companies that improve the combat/tacctical peformance of legacy weapon systems, and thus generally make all our lives better and easier. The new flip-up, co-planer Gen-3 Dog Leg Rail, AK-47/74 and Gen-3 Tactical Hand Guard system kit, from Texas Weapon Systems (TWS), would appear to be just two of those products, assuming they're perfectly straight and well-made out of quality materials with good QC (Quality Control), and are rugged/durable under adverse combat-type conditions.

Basically the flip-up, co-planer TWS Gen-3 Dog Leg Rail, AK-47/74 and Gen-3 AK tactical handguard system not only solves the problem of mounting modern variable-power (1x4X, 1.5-6X, etc.) combat optics on an AK, but it also allows you to field-strip and maintain the AK platform even more quickly and easily than before, while also allowing you mount a cleaning kit and bayonet on the rifle, if so desired. You can remove the Gen-3 Dog Leg Rail with a combat optic mounted on it by sliding an AR (AR-15)/M16/M4/M4A1-type takedown pin, that's retained and thus won't fall out of the top rail during the procedure.

With the TWS Gen-3 Dog Leg Rail system, you can have multiple top rails with different optics mounted and zero'd on them. Texas Weapon Systems President/CEO Nelson Fesas told DR that when you swap optic-mounted Dog Leg Rail's out, you'll retain zero. DR particularly likes the flip-up capability of the TWS Dog Leg Rail Gen III. It's a handy feature.



The new TWS Gen-3 Hand Guard is co-planer with the Dog Leg Rail, and is M-LOK-compatible. It also incorporates a TWS replacement AK gas tube that allows the barrel to be free-floated, so you now have a free-float-barrel AK! THAT'S really cool. The gas tube is actually designed to flex a little bit inside the handguard.

Here's how fesas describes it:

"It's [Gen-3 Hand Guard] got a new gas tube that comes with the system. It's part of the kit. And, it attaches at the chamber end of your barrel, with this barrel bushing sytem, here [see vide below]. And, then it's got a wedge-clamp system that fits at the back, which fits into the receiver space between the trunnion and the sheet-metal receiver, itself. It's an expanding wedge-lock system, which very solidly secures the handguard to the weapon. By doing that, now we have free-floated this barrel from the barrel-clamp area forwards, and so theres no contact anywhere along the barrel.

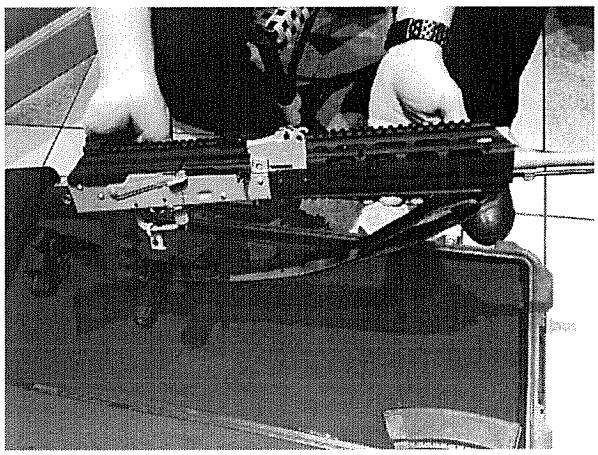


And, this particular gas tube system here, if we look at it this way [see video below] is designed to flex a little bit. You can see that slight amount of movement. So, as your handguard is braced on a pack, on a tree, on a rock, whatever you're doing in order to stabilize your shot, and you induce a stress into the rifle, you're not transfering that into your barrel, either through the handguard itself, or through the gas tube, because of that small amount of motion that we allow in there."

Pretty interesting. Let's just hope it all works as advertised. If it does, it's going to be pretty great for AK lovers.

Defense Review is intrigued by these new Texas Weapon Systems products, and we look forward to obtaining them for our own tactical AK carbines, at some point.

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located) at defrev (at) gmail (dot) com. Thank you.

All embedded DefenseReview.com (DR) photos and videos were shot with an Apple iPhone 6s Plus smartphone still/video camera.

Related Articles:

M+M Industries M10X Elite 7.62x39mm Russian Kalashnikov AK-47/AKM-Type Long-Stroke Piston/Op-Rod Assault/Tactical Rifle/Carbine/SBR/Pistol! (Video!)

M+M M10X 7.62x39mm AK-Type Long-Stroke Gas Piston/Op-Rod Tactical Rifle/Carbine with 5-Position Adjustable Gas Block! (DR Video!)

TNVC/Unity Tactical TAPS (Tactical Augmented Pressure Switch) Programmable Tape Switch for Tactical AR-15 Rifle/Carbine/SBR's and PDW's! (Video!)

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Midwest Industries MI SP-Series Free-Float Tactical AR-15 Handguard M-LOK Compatible Rail System for Integrally/Recessed-Suppressed Tactical AR-15 Carbine/SBR's! (Video!)

Midwest Industries MI G3 M-Series Free-Float Tactical AR-15 Handguard with Seven-Sided M-LOK-Compatible Rail System and Anti-Slide/Anti-Twist Torque Plate! (Video!)

Ferfrans SOAR-P 6.5 Grendel Select-Fire/Full-Auto Tactical Piston AR (AR-15-type) Rifle/Carbine/SBR Prototype: Ultimate All-Purpose Tactical AR-15-Type Weapon System for Military Combat? (Video!)

Israel Weapon Industries IWI X95 Modular Bullpup Assault/Tactical Rifle/Carbine/SBR/SMG with AR-Type Ambi (Ambidextrous) Controls! (Video!)

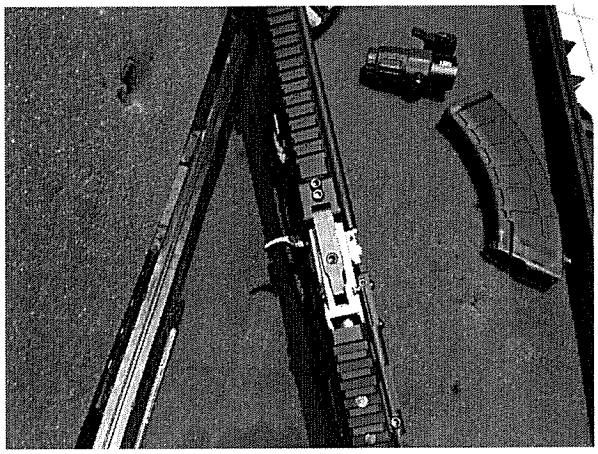
Teal Blue Bravo (TBB) PDQ Ambi-Bolt Release (ABR) Ambidextrous Bolt Carrier Group (BCG) Catch/Release Button/Lever for Tactical AR-15 Rifle/Carbine/SBR's!

Integrally/Recessed-Suppressed Desert Tech DT MDR (Micro Dynamic Rifle) with Operators Suppressor Systems (OSS) Silencer/Sound Suppressor! (Video!)

Falkor Defense Custom Blitz AR15 Ambi SBR Recessed-Suppressed Tactical AR-15 SBR/Carbine-Type 9mm SMG with Falkor Ambidextrous Lower Receiver, Optimus PDW Stock (Buttstock), Mach-15 Ambidextrous Charging Handle and Fatty M-LOK Modular Tactical Handguard/Rail System! (Video!)

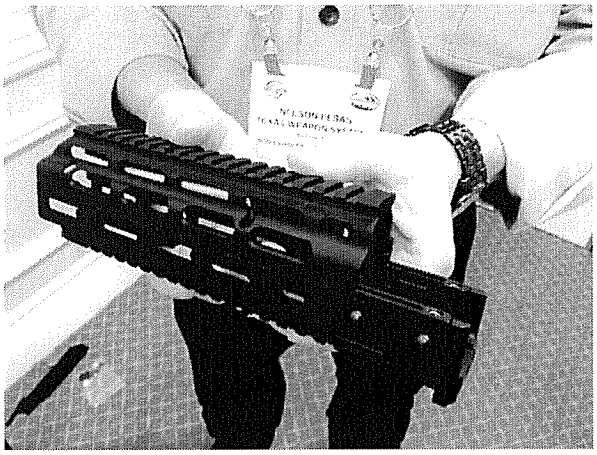








Nous Defions/Arsenal Democracy Blackside Suppressed Glock 17/22 (G17/G22) Combat/Tactical Pistol Holster: Taco Shell-Design Kydex Holster is Tactical White Light/Laser-Aimer Module-Compatible! (Video!)



Nous Defions/Arsenal Democracy AD-16 (Billet Receivers) and AD-15 (Forged Receivers) 5.56mm NATO/300BLK Tactical AR-15 Rifle/Carbine/SBR's with Ambi (Ambidextrous) Controls, KeyMod or M-LOK Modular Tactical Handguards/Rail Systems and Ballistic Advantage Barrels! (Video!)

LMT Defense MARS-L (Modular Ambidextrous Rifle System-Light) M7LB2/M7LB2T Ambi (Ambidextrous) Tactical AR-15 Lower Receiver Build with Leupold D-EVO (Dual-Enhanced View Optic) 6x20mm/LCO (Leupold Carbine Optic) 1X/1-MOA-Dot Combo Sighting System! (Video!)



LMT Defense LM8PDW556 / LM8PDW300 PDW (formerly the 'Compressor'): 10.5-Inch-Barreled 5.56mm NATO/300BLK Tactical AR-15 SBR/PDW (Short Barreled Rifle/Personal Defense Weapon) with Modified/Shortened SOPMOD Stock (Buttstock) and Weighted Bolt Carrier Group (BCG)! (Video!)

Suppressed Patriot Ordnance Factory (POF-USA) Revolution 10.5" Tactical Piston AR SBR (Short Barreled Rifle) Fires Subsonic 7.62x51mm NATO/.308 Win. Ammo Reliably at the Range! (Video!)



Beck Defense .510 Beck Tactical AR Rifle/Carbine/SBR with Lancer Systems L12AWM Advanced Warfighter Magazine and 'Controlled Chaos' Hybrid and Nano/RDX Explosive Rounds!

Patriot Ordnance Factory POF-USA P-300 (also written P300) .300 Win. Mag (300WM) Tactical Piston AR Rifle/Carbine Debuts at SHOT Show 2016! (Video!)

DRD Tactical KIVAARI AR-Type Quick-Takedown Semi-Auto .338 Lapua Magnum Anti-Materiel/Sniper Rifle/Carbine for some SERIOUSLY Long-Range, Manpackable Shootin' n' Scootin'!

Brugger & Thomet B&T AP556 Select-Fire and Semi-Auto-Only Tactical Rifle/Carbine/SBR's: More Gas Piston/Op-Rod Rifle Goodness with Ambi Controls! (Video!)

Parabellum Armament (PA) Kalashnikov AK-47/AKM Tactical Carbine Weapons Accessories Adaptive Rail System (AKARS), Mechanical Advantage Release System (MARS) Magazine Release Lever and Ratchet Charging System (RCS) Left-Side Folding Charging Handle (Video!)

US PALM 45-Round and 30-Round Quad-Stack (4×2 config) 7.62x39mm Russian-Caliber Polymer AK Mags (Rifle Magazines) at SHOT Show 2012: The Kalashnikov AK-47/AKM Rifle Gets a Big Boost in Immediate Ammo Capacity/Tactical Firepower! (Video!)

US PALM Takedown/Breakdown AK (Kalashnikov AK-47/AKM Rifle/Carbine) with US PALM/Midwest Industries

MI Rail Kit at SHOT Show 2012: Tactical, Practical and Backpackable AK for Military Special Operations and Civilian Tactical Shooters! (Video!)

Kalashnikov AK-47/AKM Designer/Developer Mikhail Kalashnikov Dead at 94: November 10, 1919 – December 23, 2013

Kalashnikov AKSU AKM SBR/Sub-Carbine Chambered in 300 AAC Blackout Test-Fired at the Range (Video!)

LGS Innovations Wins $11.2M Contract to Develop Laser for Detecting Chemical Residue

By Lauren Budik on April 20, 2016



Kevin Kelly, LGS Innovations

LGS Innovations announced April 18 it has been awarded a four-year, $11.2M cost-plus-fixed-fee contract to develop a compact, laser-based system to aid in the detection of chemical weapons, biological agents, explosives, narcotics and chemical indicators of nuclear material development.

"LGS has been focused on developing the most advanced laser and photonic-based solutions for decades," LGS Innovations CEO Kevin Kelly said. "We are excited to leverage our proven experience to field a state-of-the-art prototype that will help our armed forces detect an incredible range of substances safely and discretely."

"This program has the potential to be extremely influential in the future of laser technology and threat prevention," LGS Innovations Photonics Applications & Development Director Dr. Linda Braun said. "LGS is looking forward to applying our expertise in laser systems to this important and challenging project."
For this project, the University of Illinois will be the subcontractor contributing detection algorithm expertise.

The U.S. Air Force Research Laboratory at Wright-Patterson Air Force Base, Ohio, announced that LGS Innovations will be one of four performers chosen to develop the system for the U.S. Intelligence Advanced Research Projects Activity (IARPA). The contract is in support of IARPA's Standoff Illuminator for Measuring Absorbance and Reflective Infrared Light Signatures (SILMARILS) project.

LGS will be responsible for developing a real-time, standoff solution capable of detecting trace chemical residues on surfaces from up to 30 meters using active infrared spectroscopy. LGS will develop the physical hardware as well as the detection and discrimination algorithms for a field-testable prototype for the U.S. federal government.

Once completed, the system will have broad application both in the physical security space, as well as the fight against the manufacture and trafficking of illicit drugs.