

2. ARS (AIR RECOIL SYSTEM) FIREARMS TRAINING SYSTEMS

Description of ARS System

The ARS system is a drop-in, air-activated recoil system for semi-automatic and automatic firearms. The ARS system allows realistic training on real handguns and rifles. The system utilizes compressed gas or CO2 to simulate recoil by acting on the gun's bolt or slide to "cycle" the gun. An integrated laser device is also incorporated and may be used to activate special targets or simulator screens. Each "shot" is initiated by the strike of the unmodified hammer – producing both recoil and a laser pulse.



ARS kit with laser installed in a handgun

Advantages of the ARS System

- Recoil kits are available for most popular handguns and many rifles and machine guns.
- Each system is designed to quickly drop into place without special tools and to convert a regular firearm into an effective training weapon, which does not use ammunition.
- Using compressed gas instead of ammo gives the opportunity to fire a large number of simulated rounds at a negligible cost.
- After a training session, the entire assembly can be quickly removed from the handgun or rifle, making the weapon available again for use with live ammunition.
- Trigger is not altered in any way so shooter can practice with the actual original trigger.
- Mechanism operates at correct cyclic rate while producing noticeable recoil and blast.
- Laser pointer activates electronic targets (optional). Invisible and visible lasers available. All lasers comply with relevant national and international standards.
- All components are made of high quality corrosion-resistant stainless materials.

ARS Systems Currently Available

A. ARS Handgun Kits






Each Handgun System Includes:

- **CONVERSION BARREL:** Includes barrel body, internal valve, laser emitter, piston, and interface block.
- **SPRING:** Reduced power spring is used.
- **INTERFACE BLOCK:** Mates with magazine to supply compressed air the barrel.
- **MAGAZINE:** Connects with interface block and air coupler.
- **AIR COUPLER:** connects the system to external source of compressed air.
- **LASER:** transmits a beam of light at each shot to activate targets. Two types of lasers are available: Non-Visible and Visible.

ARS Systems are designed to work with compressed air, nitrogen or CO₂.



**NOTE: All ARS Lasers are Class 3R lasers and emit laser radiation.
LASER LIGHT, AVOID DIRECT EYE EXPOSURE!**

Available ARS Systems*	Dvorak Model #	Drop-in Conversion Kit for handgun of the following Make and Model
	ARS-BE92	Beretta Model 92, Model 96 and M9 – 9mm or .40 S&W caliber Operating Pressure: 140 psi
	ARS-BE92T	Taurus Full size Handguns, 9mm or .40 S&W caliber. Fits Model T92, T96, PT100. Operating Pressure: 140 psi
	ARS-T247	Taurus 24/7 Pro Handguns, .40 S&W cal. Operating Pressure: 140 psi
	ARS-T940	Taurus PT940 Handguns, .40 S&W cal. Operating Pressure: 140 psi
	ARS-XD45	Springfield .XD Handguns, .45 S&W cal. Barrel Length 4” Operating Pressure: 140 psi

	ARS-GL17	Glock 17 – 9mm caliber Operating Pressure: 140 psi
	ARS-GL19	Glock 19 – 9mm caliber Operating Pressure: 140 psi
	ARS-GL22	Glock 22 – .40 S&W caliber; Also fits Glock 31 – .357 caliber Operating Pressure: 140 psi
	ARS-GL21	Glock 21 – .45 caliber Operating Pressure: 140 psi
	ARS-GL23	Glock 23 – .40 S&W caliber Operating Pressure: 140 psi
	ARS-SWMP	Smith & Wesson M&P pistol 9mm and .40 caliber Operating Pressure: 140 psi
	ARS-SW45	Smith & Wesson M&P pistol .45 caliber Operating Pressure: 140 psi
	ARS-P2000	H&K P2000 – .40 S&W caliber Operating Pressure: 140 psi
	ARS-USP	H&K USP – .40 S&W caliber Operating Pressure: 140 psi

	ARS-1911	Colt 1911 and clones using a Single Stack Magazine – .45 ACP Operating Pressure: 140 psi <i>Note: Requires a fully supported-type barrel or feed ramp modification!</i>
	ARS-1911D	Model 1911 clones using a Double Stack Magazine, fits Para-Ordnance pistols – .45 ACP Supports all wide-body frames Operating Pressure: 140 psi <i>Note: Requires a fully supported-type barrel or feed ramp modification!</i>
	ARS-P220	Sig Sauer Model P220 - .45 ACP Operating Pressure: 140 psi
	ARS-P226	Sig Sauer Model P226 - 9mm Operating Pressure: 150 psi
	ARS-P228	Sig Sauer Model P228 – 9mm Operating Pressure: 150 psi
	ARS-P229	Sig Sauer Model P229 – .40S&W Operating Pressure: 150 psi




*Firearms NOT included with kits!

C. ARS Rifle Kits

Each ARS Rifle System Includes:

- ACTUATOR: replaces original bolt carrier and produces simulated recoil every time the gun is “fired”.
- MAGAZINE: takes place of the original magazine, assures proper alignment of actuator and air coupler.
- LASER POINTER: projects a spot on the target as a short pulse of light, mounts in the muzzle of the barrel.
- AIR COUPLER: brings compressed air or gas to the pneumatic actuator.

**ARS Systems are designed to work with compressed air, nitrogen or CO₂.
All Kits will work in Semi-Auto, Burst and/or Full-Auto capabilities.**

Available Systems*	Dvorak Model #	Drop-in Conversion Kit for rifle of the following Make and Model
	ARS-M16	M16, AR-15 and M-4 rifles and some clones Operating Pressure: 150 psi
	ARS-MP5	H&K MP5 – 9mm Operating Pressure: 150 psi
	ARS-MP5K	H&K MP5K Compact – 9mm Operating Pressure: 150 psi



*Firearms NOT included!

D. ARS Machine Gun Systems

Each ARS Machine Gun System Includes:

- ACTUATOR: replaces original bolt carrier and produces simulated recoil every time the gun is “fired”.
- MAGAZINE: takes place of the original magazine, assures proper alignment of actuator and air coupler, provides electronic control to laser pointer.
- LASER POINTER: projects a spot on the target as a short pulse of light, mounts in the muzzle of the barrel.
- AIR COUPLER: brings compressed air or gas to the pneumatic actuator.

Systems are designed to work with either compressed air or nitrogen.

Available Systems*	Dvorak Model #	Drop-in Conversion Kit for Machinegun of the following Make and Model
	ARS-M240	FN M240 7.62 mm Machine Gun Operating Pressure: 900 psi
	ARS-M249	FN M249 Machine Gun Operating Pressure: 900 psi

*Firearms NOT included!





D. Spare Parts/Maintenance Kits for ARS-M16 system







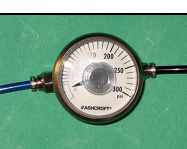

Dvorak Model #	Description
ARS-M16-MK1	Includes: O-rings, Springs, Retaining rings, Roll pins, No tools
ARS-M16-MK2	Includes: O-rings, Springs, Retaining rings, Roll pins, Firing pin, Valve Internals, Tools: None
ARS-M16-MK3	Includes: O-rings, Springs, Retaining rings, Roll pins, Firing pin, Valve Internals, Tools: Pin punch, hammer, snap ring pliers

E. Spare Parts/Maintenance Kits for ARS-M249 system


Dvorak Model #	Description
ARS-M249-MK1	Includes: O-rings, Springs, Retaining rings, No tools
ARS-M249-MK2	Includes: O-rings, Springs, Retaining rings, Valve Internals, Tools: None
ARS-M249-MK3	Includes: O-rings, Springs, Retaining rings, Valve Internals, Tools: snap ring pliers



F. Compressed gas solutions

Accessory Image	Dvorak Model #	Description
	ARS-REG-CO2	Regulator for stationary CO2 tank with 3ft air hose and quick disconnect coupling. Output pressure adjustable 0-150 PSI.
	ARS-REG-CO2T	Regulator for stationary CO2 tank with tamper-proof pressure setscrew and quick disconnect coupler. Output pressure adjustable 0-150 PSI. Color-coded gage for CO2 quantity in tank. Cannot be used with other gases, input pressure limit 1500 psi.
	ARS-REG-N2	Regulator for stationary nitrogen tank with 3ft air hose and quick disconnect coupling. Output pressure adjustable 0-150 PSI.
	ARS-REG-DT	Regulator for stationary U.S. dive tank with 3ft air hose and quick disconnect coupling. Output pressure adjustable 0-150 PSI.

	ARS-REG-HP	High pressure Regulator for stationary nitrogen tank with quick disconnect coupling. Output Pressure adjustable 0 to 1500 Psi. Suitable only for Machinegun Kits.
	ARS-CO2-DT	Adapter CO2 regulator to scuba tank
	ARS-N2-DT	Adapter Nitrogen regulator to scuba tank
	ARS-CO2-N2	Adapter CO2 regulator to Nitrogen tank
	ARS-N2-CO2	Adapter Nitrogen regulator to CO2 tank
	ARS-3WAY	Three way air splitter with quick disconnects
	ARS-IG300	Small Inline gage with instant fittings for 5/32" tubing
	ARS-DTF	Dive tank fill adapter for HPA hip tanks

G. Portable CO2 solutions

Accessory Image	Dvorak Model #	Description
	ARS-BP11	Beltpack 11 - includes a regulator with belt clip and 8" coiled hose. Weight 0.7 lb, takes standard disposable 12g CO ₂ cartridges, good for 30 to 50 "shots". Factory pre-set output pressure 150 psi, unless specified otherwise.

	<p>ARS-BP20</p>	<p>Beltpack 20 - includes one CO2 tank, 12 oz capacity, belt pouch, Stabilator regulator and 8" coiled hose. Refillable at paintball stores, or from a larger CO2 tank (with a dip tube), by trained personnel, using filler valve apparatus. Factory pre-set output pressure 150 psi, unless specified otherwise. User adjustable.</p>
	<p>ARS-SGS</p>	<p>Stabilator regulator with gage and Shut-off. Includes 6" coiled hose. Fits standard paintball HPA or CO2 tanks. Factory pre-set output pressure 150 psi, unless specified otherwise. Provides output pressure of 0-160 psi, user adjustable with 3/16" hex wrench.</p>