



OBone

.22 LR RIMFIRE SUPPRESSOR

OWNER'S MANUAL

ACTIONS
SPEAK
LOUDER™

NATIONAL FIREARMS ACT FIREARM.
READ THIS MANUAL BEFORE INSTALLING OR FIRING.

REV. 09/2026

THANK YOU FOR CHOOSING A DERYA ARMS PRODUCT

The OBone is a user-serviceable .22 LR rimfire suppressor built in Jacksonville, Florida. Read this manual completely before you thread it onto any firearm, and keep it with your approved National Firearms Act paperwork.

If anything is unclear, stop and contact Derya before use: **+1 (904) 420-2923**, Monday–Friday, 8:30 a.m.–4:30 p.m. ET, or **www.derya.us**.

MODEL	OBone
MANUAL	Rev. 09/2026 · English
ESPAÑOL	página 18 de este manual
MANUFACTURER	South Derya Corporation dba Derya, Jacksonville, FL

**ACTIONS
SPEAK
LOUDER™**

LAWFUL OWNERSHIP

The OBone is a silencer regulated under the National Firearms Act. Unless a then-current exemption or court order applies, it is transferred on an approved ATF Form 4 through a licensed dealer, and only the registered person, trust or entity may possess it.

KEEP YOUR PAPERS

Keep the approved form in a safe place and a copy with the suppressor whenever you transport or use it. You must be able to produce proof of registration on request. Record your serial number on page 15.

DO NOT TRANSFER IT

Never lend, give, sell or ship it except as the law allows, and never leave it in the possession of anyone who is not on the registration — including family — when you are not present. Sending it to Derya for repair is permitted; contact Derya first (page 15).

KNOW YOUR STATE

Ownership, use and hunting with a suppressor are prohibited or restricted in some states and localities, and the law changes. Know the law where you live and everywhere you take the suppressor. When flying, declare it and carry it locked in a hard-sided case in checked baggage. Derya does not provide legal advice.

READ BEFORE USE

⚠ WARNING – FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH

- **Treat every firearm as loaded.** Keep the muzzle pointed in a safe direction at all times, suppressed or not.
- **Unload before you touch the suppressor.** Remove the magazine, lock the action open, and visually and physically confirm the chamber is empty before installing, removing, checking or disassembling the OBone.
- **Never handle a hot suppressor.** Let it cool to ambient temperature before removing or disassembling it. Wear gloves when checking tightness at the range.
- **Verify alignment before live fire.** Pass an alignment rod through the bore and out the front cap before the first shot, after every cleaning, and whenever the suppressor is remounted. A misaligned suppressor will be destroyed by a baffle strike and can cause serious injury.
- **Mount only on a firearm in good working order** with clean, undamaged, concentric 1/2"-28 threads and a square muzzle shoulder. Never use crush washers, peel washers, o-rings or shims under the mount.
- **Stay inside the caliber rating** on page 10. Never fire centerfire cartridges, 5.7×28 mm, .22 TCM, shot cartridges, or any projectile larger than .224".
- **Hearing and eye protection are still required.** A suppressor reduces sound; it does not eliminate it. Blowback gas and debris increase with a suppressor on a semi-automatic host.
- **A suppressed firearm is just as dangerous as an unsuppressed firearm.** Lower noise makes it easy to forget that. Every rule of safe gun handling still applies.
- **Keep it out of reach of children and unauthorized persons.** This is a National Firearms Act firearm. Store it locked, dry and separately from ammunition.
- **Do not modify.** Do not drill, ream, cut, weld, pin, refinish or otherwise alter any part. Do not fire with a baffle missing or without the front cap.

Stop and contact Derya if you are unsure about any step in this manual. Do not guess.

HEARING AND LEAD EXPOSURE

SUPPRESSED IS NOT SILENT

OSHA and NIOSH set 140 dB peak as the level above which a single impulse can permanently damage hearing. An unsuppressed .22 LR pistol produces roughly 155 dB at the shooter's ear, a .22 LR rifle roughly 140 dB. Under representative conditions the OBone brings a .22 LR host into the 112 dB range — a large reduction, not silence.

- Results vary with the host, barrel length, ammunition and temperature. Supersonic ammunition adds a ballistic crack the suppressor cannot remove. Indoors and under cover, reflections raise the level at your ear.
- Repeated exposure adds up. Wear hearing protection whenever you shoot. Always wear it indoors and on a firing line with unsuppressed firearms, and make bystanders wear it too.

LEAD EXPOSURE

Rimfire ammunition uses lead projectiles and lead-based primers. Most of the fouling inside a rimfire suppressor is lead, and cleaning it is the largest lead exposure most owners will have.

- Wear nitrile gloves and eye protection whenever you disassemble or clean the OBone.

- Work in a well-ventilated area. Never blow out or dry-brush fouling — keep it wet so it does not become airborne dust.
- Do not eat, drink or smoke while cleaning. Afterward wash hands, forearms and face with soap and cold water before touching food, children or your face.
- Keep children and pregnant women away from the work area, fouled parts and rags.
- Dispose of used solvent, rags and fouling according to local regulations. Do not pour lead-contaminated liquid down a drain.

⚠ WARNING – CALIFORNIA PROPOSITION 65

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

BEFORE EVERY RANGE SESSION

Host unloaded and clear · ½"-28 verified, shoulder clean · mount hand-tight · alignment rod · eye and ear protection · ammunition within the rating · copy of required paperwork (approved ATF form, if any) · re-check tightness between magazines.

SPECIFICATIONS

MODEL	OBone
CALIBER RATING	.22 LR (full-auto rated) · .17 HMR and .22 WMR (semi-automatic only)
BORE	.224 caliber
LENGTH	5.25 in (133 mm)
DIAMETER	1.181 in (30.0 mm)
WEIGHT	3.99 oz (113 g)
ATTACHMENT	½"-28 direct thread
MOUNT (SERIALIZED)	4140 steel, black nitride
TUBE, BAFFLES, FRONT CAP	7075-T6 aluminum, black anodized
BAFFLES	8, identical
MINIMUM BARREL LENGTH	None
SOUND, .22 LR	112 dB*
USER SERVICEABLE	Yes — separates by hand
MADE IN	Jacksonville, Florida, USA

*Representative result with .22 LR ammunition. Varies with host, barrel length, ammunition, temperature, environment and metering method; not a guarantee of performance. Specifications subject to change without notice.

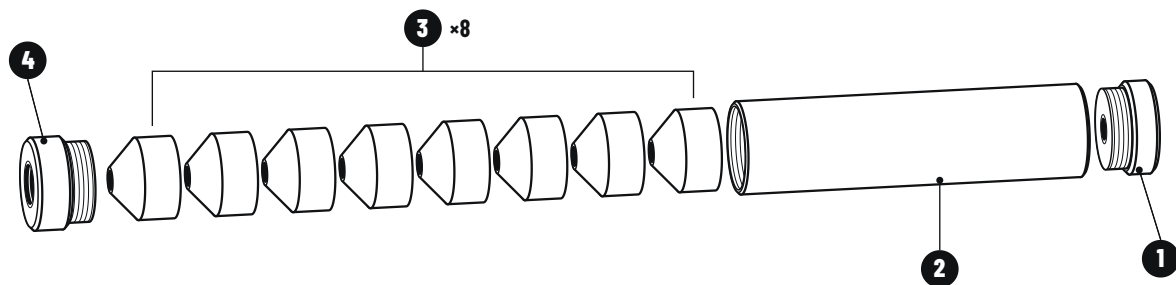
HOST FIREARM REQUIREMENTS

- **Rimfire only:** .22 LR, .17 HMR or .22 WMR. See page 10.
- **½"-28 threads with a clean, square shoulder.** Verify the pitch with a thread gauge. Many rimfire barrels are ½"-28, but ½"-20 UNF, ⅜"-24, M8×0.75 and M9×0.75 are common on rimfire pistols and imports. The wrong pitch will ruin the mount and the barrel.
- **Threads concentric with the bore.** Have a gunsmith check any suspect, worn or aftermarket-threaded barrel. Off-axis threads are a leading cause of baffle strikes.
- **The mount must seat on the shoulder,** not bottom out on the threads. Nothing between mount and shoulder — no crush washers, peel washers, o-rings or shims.
- **Clean threads:** no carbon, old lubricant or thread locker.
- **Barrel in good condition:** no bulges, damaged crown or excessive wear.

IN THE BOX

The OBone, assembled, and this manual. An alignment rod is required before firing and is not included; a straight .22 cleaning rod with the jag removed is acceptable if it passes freely with visible clearance at the front cap (page 8).

EXPLODED VIEW



1 Front cap

2 Outer tube

3 Baffle ×8

4 Steel mount —
serialized

Baffle cones face the mount. Exploded view — some details may vary. Parts list on the facing page.

PARTS LIST AND ATF MARKINGS

NO.	PART	MATERIAL AND FINISH	QTY	SERIALIZED
1	Front cap	7075-T6 aluminum, black anodized	1	No
2	Outer tube	7075-T6 aluminum, black anodized	1	No
3	Baffle	7075-T6 aluminum, black anodized	8	No
4	Steel mount, ½"-28	4140 steel, black nitride	1	Yes

COMPLETE UNIT ONLY

Do not lose parts. Do not order or keep spare baffles, tubes or caps — Derya does not ship suppressor parts to individuals. For any repair, send the complete suppressor to Derya (page 15).

SERIALIZED PART AND MARKINGS

The screw-on steel mount is the serialized, registered part of the OBone. It carries the serial number and all required ATF markings. The aluminum tube, baffles and front cap are not serialized. The tube may repeat the same serial number for identification; it will never carry a different one.

MARKING	READS
Manufacturer	DERYA
City and state	JACKSONVILLE, FL
Model	OBone
Serial number	Unique to each suppressor
Caliber	22

- Never grind, file, polish, refinish, restamp or otherwise alter the marked mount. Never clamp it in vise jaws or pliers. Altering a required marking is a federal crime and voids the warranty.
- Do not attempt to replace the mount. Replacing the serialized part is the making of a new NFA firearm, not a repair.

INSTALLATION

- 1 Unload.** Remove the magazine, lock the action open, and visually and physically check the chamber. Keep the muzzle pointed in a safe direction.
- 2 Prepare the muzzle.** Remove the thread protector or muzzle device. Wipe the threads and shoulder clean and inspect them.
- 3 Lubricate lightly.** A thin film of high-temperature anti-seize or suppressor grease on the barrel threads slows carbon lock and makes removal easier. Never use thread locker.
- 4 Thread it on by hand,** clockwise, until the mount seats squarely against the shoulder. Hand tight only. Never use a wrench, pliers or a vise on the tube.
- 5 Check the shoulder.** There must be no gap between the mount and the muzzle shoulder, and the suppressor must not look canted.
- 6 Alignment check** — see the box at right. Do not skip it.
- 7 Confirm with three rounds,** unload, and re-check tightness. Re-check between magazines during the first session and periodically after that. All direct-thread suppressors loosen with use, and rimfire carbon accelerates it.

ALIGNMENT CHECK

With the firearm unloaded and the action open, pass a .22 caliber alignment rod — or a cleaning rod, jag off — through the bore from the chamber and out the front cap. It must pass freely, with visible clearance all around the rod at the front cap.

Repeat every time the suppressor is remounted, after every cleaning, whenever you change hosts, and if point of impact shifts. If the rod touches the cap or binds, do not fire. Find the cause: wrong pitch, off-axis threads, debris under the shoulder, or a reversed baffle.

REMOVAL

- 1** Let the suppressor cool completely. Unload the firearm and lock the action open.
- 2** Turn the entire suppressor counter-clockwise by hand, gripping it near the mount. Do not twist the front cap or tube against the mount.
- 3** If it is stuck, do not force it. Cool fully, apply penetrating oil to the barrel threads, wait, and try again. A padded strap wrench may be used on the mount flange only.

SHOOTING THE OBone

FIRST-ROUND POP

The first shot from a cold, clean suppressor is louder than the shots that follow: oxygen inside the tube burns with the first charge of gas. This is normal, harmless, and fades within a few rounds as light fouling builds. No break-in procedure is required.

POINT OF IMPACT

Expect a small, repeatable shift in point of impact with the suppressor mounted. Re-zero suppressed. A loose mount changes barrel harmonics and concentricity and will move your zero — if your groups wander, check tightness first.

RUN IT DRY

The OBone is designed to be fired dry. Do not add water, gel, grease or any other ablative media. Liquids in an aluminum rimfire suppressor spray fouling back at the shooter and accelerate wear.

RATE OF FIRE AND HEAT

The OBone is full-auto rated in .22 LR. Rated does not mean unlimited: aluminum sheds heat more slowly than the stainless steel or Inconel used in centerfire suppressors, so in full-automatic fire let the suppressor cool between magazines — back-to-back magazine dumps build heat faster than the OBone can shed it. In .17 HMR and .22 WMR

it is rated for semi-automatic fire only: these cartridges run at higher pressure and velocity and erode aluminum baffles faster. Keep strings short and let the suppressor cool between them. A suppressor gets hot enough to burn skin and to damage cases, clothing and optics — handle it with gloves and let it cool before storing it.

BLOWBACK

On a semi-automatic host, a suppressor raises back-pressure. Expect more gas, fouling and unburned powder at the action and your face, and a dirtier firearm. Eye protection is mandatory. A heavier recoil spring or a suppressed gas setting on adjustable hosts may help.

STOP IMMEDIATELY AND INSPECT IF

- the report suddenly gets louder or changes tone;
- point of impact shifts without a loose mount;
- you see a mark, dent or bright spot on the front cap;
- bullets keyhole or the group opens up.

These are baffle-strike indicators. Unload, remove the suppressor, and check the bore of the cap and each baffle before firing again. Do not fire a suppressor with a struck baffle or cap — contact Derya.

AMMUNITION AND CALIBER RATING

CARTRIDGE	RATED	RATE OF FIRE	NOTES
.22 Long Rifle	Yes	Full-auto rated	Standard-velocity and subsonic loads are quietest; high-velocity loads are fine.
.17 HMR	Yes	Semi-auto only	Higher pressure and velocity; keep strings short. Faster baffle wear.
.22 WMR (.22 Magnum)	Yes	Semi-auto only	As above.
.17 WSM	No	—	Exceeds the rating of an aluminum-baffle suppressor.
5.7×28 mm, .22 TCM, .22 Hornet	No	—	Centerfire. Not rated under any conditions.
.223 / 5.56 or any other centerfire	No	—	Will destroy the suppressor; can injure the shooter.
Shot cartridges (rat shot, snake shot)	No	—	Shot strikes the baffles.

AMMUNITION RULES

- Bore diameter is .224". **Never fire any projectile larger than .224".**
- Use factory-loaded ammunition that meets SAAMI or C.I.P. standards. Damage from reloaded, remanufactured, damaged or defective ammunition is not covered by warranty.
- Any load that keyholes or tumbles in your barrel will strike baffles. Heavy subsonic bullets (for example 60-grain loads) may not stabilize in standard-twist barrels. **Test a new load on paper without the suppressor first.**
- Standard-velocity (subsonic) .22 LR avoids the supersonic crack. Rimfire is dirty with any load — clean on the interval on page 12.

Firing any cartridge outside this rating, or using .17 HMR or .22 WMR in full-automatic fire, is misuse. It voids the warranty and can cause the suppressor to fail catastrophically.

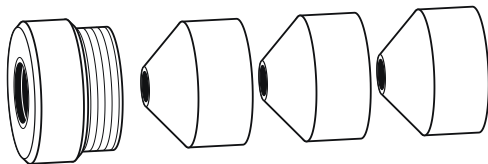
DISASSEMBLY AND REASSEMBLY

DISASSEMBLY

Only when cool and off the firearm. Wear nitrile gloves and eye protection, and work over a towel so no part is lost.

- 1 Remove the OBone from the host (page 8).
- 2 Unscrew the front cap counter-clockwise. If carbon-locked, use a padded strap wrench on the cap — never a vise or pliers on the tube.
- 3 Unscrew the serialized mount counter-clockwise. Keep vise jaws, pliers and punches off it.
- 4 Push the baffle stack out from the mount end with a wooden or plastic dowel — never a steel punch.
- 5 Separate the eight baffles. They are identical and nest cone-into-cup.

Stuck part? See Troubleshooting, page 13. Never use heat or force.



← CONES POINT TOWARD THE MOUNT

REASSEMBLY

- 1 **Inspect every part.** Count eight baffles. Check each aperture and the cap bore for nicks, bright spots or bent metal, each cone for cracks, and every thread for damage. **If anything shows strike damage, stop — contact Derya.**
- 2 **Stack the baffles cones toward the mount**, each cone nested in the cup of the baffle behind it. Order does not matter.
- 3 **Slide the stack into the tube** from the mount end, cups leading — the cones face you.
- 4 **Thread the original serialized mount** into the tube, clockwise, until snug. Check the serial number.
- 5 **Thread the front cap on**, clockwise, until snug. The stack should be captured with no rattle. If the cap will not seat, a baffle is reversed — do not force it.
- 6 **Alignment rod**, three-round confirmation, re-check tightness. If the report is louder than you remember, stop and inspect.

CLEANING

WHEN

.22 LR is dirty, and lead fouling hardens with time and heat. Clean the OBone **every 300–500 rounds**, or sooner if the front cap starts to bind, the report gets louder, or the suppressor feels heavier. Do not push past 1,000 rounds: fouling can lock the baffles into the tube.

ALUMINUM PARTS – TUBE, BAFFLES, CAP

- 1 Soak the baffles and cap in an aluminum-safe solvent, CLP or penetrating oil for 30–60 minutes.
- 2 Scrub with a nylon brush. Lift heavy lead with a plastic scraper or wooden pick. Keep the fouling wet.
- 3 Wipe the tube bore with a solvent-wet patch and clean the threads at both ends.
- 4 Wipe off the solvent and dry every part completely.

STEEL MOUNT

Any standard solvent or CLP with a nylon or brass brush. Clean both threads. Only wipe the marked surfaces. Oil lightly afterward.

NEVER USE ON THE OBone

- **Ultrasonic cleaners** on aluminum parts, or with any caustic or alkaline solution: they pit and etch anodized aluminum.
- **"The dip"** (hydrogen peroxide and vinegar, or any peracetic-acid bath). It dissolves aluminum and produces lead acetate, which is highly toxic.
- **Alkaline degreasers** (purple industrial cleaners, original Simple Green, oven cleaner, lye) on aluminum.
- **Steel wool, wire brushes, abrasive or soda blasting, or tumbling** on anodized parts: they strip the finish and can alter the apertures.
- **Steel picks, punches, drills or reamers** in any bore or aperture.
- **Heat, flame or a torch.**

BEFORE REASSEMBLY

A thin film of high-temperature anti-seize or suppressor grease on the mount-to-tube and cap-to-tube threads keeps the OBone hand-serviceable. Do not lubricate the baffles or the inside of the tube.

Gloves, eye protection, ventilation, wet fouling, wash afterward — see page 4.

TROUBLESHOOTING

SYMPTOM	LIKELY CAUSE	WHAT TO DO
Report suddenly louder, tone changes, point of impact jumps, or a mark appears on the front cap	Baffle strike, or a loose mount	Stop. Unload, remove the suppressor, inspect the cap bore and every baffle aperture, check tightness and alignment. Do not fire a struck suppressor — contact Derya.
Suppressor loosens during firing	Normal for a direct-thread mount; carbon or fouling on the threads	Clean the barrel threads, apply anti-seize, hand-tighten, and check between magazines. Never wrench it on.
Suppressor will not shoulder, sits canted, or a washer or shim is under the mount	Wrong thread pitch, threads too long, damaged shoulder, debris, or any crush washer, peel washer, o-ring or shim	Stop — do not fire. Remove any washer or shim, verify ½"-28 with a gauge, clean the shoulder, remount hand-tight on the bare shoulder and repeat the alignment check. Correct the barrel or fit a proper thread spacer.
Front cap or mount will not unscrew	Carbon and lead lock	Cool completely; soak the threads in penetrating oil (an hour to overnight). Padded strap wrench on the cap or mount flange only. Never a vise, flame or torch.
Baffles will not come out of the tube	Fouling past the cleaning interval	Soak overnight in penetrating oil; push from the mount end with a wooden or plastic dowel. If it will not move, stop and contact Derya.
Front cap will not seat during reassembly	Baffle reversed or stack not fully home; fouling on threads	Remove the stack, check that every cone points toward the mount, clean the threads, reinstall.
First shot louder than the rest	First-round pop	Normal. See page 9.
Bullets keyhole; groups open up	Load not stabilizing in your barrel; worn barrel or crown; strike damage	Stop. Test the load on paper unsuppressed; change loads; inspect the barrel and the suppressor.
Excess gas and debris in the face on a semi-auto	Normal back-pressure	Eye protection; clean the host more often; consider a heavier recoil spring.

LIMITED LIFETIME WARRANTY

What is covered. South Derya Corporation dba Derya ("Derya") warrants to the original registered owner, for the life of the product, that the OBone suppressor is free of defects in materials and workmanship when used as described in this manual. This warranty is non-transferable and applies only to the original owner to whom the suppressor was lawfully transferred.

What Derya will do. If a covered defect appears, Derya will, at its option, repair the suppressor or replace the defective non-serialized part (front cap, tube or baffle) on the original serialized mount, at no charge for parts and labor. Where the serialized mount itself is defective and cannot be repaired, Derya will replace the suppressor; because the replacement is a new National Firearms Act firearm, it must be transferred to you through the ATF process then in effect, and Derya will assist with that process.

What is not covered. This warranty does not cover: (a) finish wear, carbon staining, discoloration and other cosmetic changes from normal use; (b) baffle strikes and damage caused by misalignment, non-concentric or incorrectly cut barrel threads, a damaged or worn host firearm, crush washers, peel washers, shims or a loose mount; (c) use with any cartridge outside the caliber rating in this manual, full-automatic fire in any cartridge other than .22 LR, or any projectile larger than .224"; (d) reloaded, remanufactured, damaged, defective or improperly sized ammunition; (e) shooting wet or with any abrasive media; (f) failure to clean and maintain the suppressor as described, including fused baffles and damage from prohibited cleaning

methods, chemicals, ultrasonic cleaners, abrasives, heat or tools; (g) any modification, alteration, refinishing, drilling, reaming, welding or repair not performed by Derya; (h) damage from disassembly by force; (i) loss, theft, fire, corrosion from storage, or accident; (j) use in violation of any law; and (k) normal wear of the baffles and front cap from the round count and calibers fired.

How to make a claim. Contact Derya customer service at +1 (904) 420-2923 or www.derya.us before shipping anything. Derya will issue a Return Merchandise Authorization (RMA) and shipping instructions. Ship the complete, clean, cool and unloaded suppressor with a copy of your approved ATF form, if any, or other proof of lawful possession, proof of purchase and a description of the problem. Do not ship without an RMA and do not ship the suppressor to a retailer. Return shipping to you is covered for warranty repairs.

Limitations. Repair or replacement as described above is your sole and exclusive remedy. To the fullest extent permitted by law, Derya disclaims all other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose, and shall not be liable for incidental, consequential or special damages, including damage to the host firearm, optics or accessories. Some states do not allow limitations on the duration of an implied warranty or the exclusion of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may have other rights that vary from state to state. No dealer, distributor or employee is authorized to modify this warranty.

SERVICE AND RETURNS

- 1 Contact Derya first.** Do not send a suppressor to a retailer, and do not send it to Derya without a Return Merchandise Authorization (RMA).
- 2 Follow the RMA shipping instructions.** Ship the complete suppressor — every baffle, tube, cap and mount — clean and cool, with a copy of your approved ATF form, if any, or other proof of lawful possession, and the RMA number inside the box.
- 3 Repair is not a transfer.** Sending a lawfully possessed suppressor to a licensed manufacturer for repair and return to you is permitted. Derya will tell you if any ATF form is recommended.

REPLACEMENT PARTS

The OBone is serviced as a complete unit only. Do not lose parts, and do not order or keep spare baffles, tubes or caps — Derya does not sell or ship suppressor parts to individuals. Damaged parts are replaced at Derya on your original serialized mount. A destroyed serialized mount cannot simply be swapped — Derya will explain the options.

CUSTOMER SERVICE

+1 (904) 420-2923 · Mon–Fri 8:30 a.m.–4:30 p.m. ET
www.derya.us/customer-service-support/

OWNER RECORD

Complete this record and keep this manual with your approved NFA paperwork.

OWNER / TRUST NAME

MODEL

OBone

SERIAL NUMBER

DATE OF PURCHASE

DEALER (FFL/SOT)

ATF FORM 4 APPROVAL /
CONTROL NO. (IF APPLICABLE)

HOST FIREARM(S)

ROUND COUNT AT LAST
CLEANING



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ENGLISH · REV. 09/2026

**ACTIONS
SPEAK
LOUDER™**

DERYA

JACKSONVILLE, FL

+1 (904) 420-2923

WWW.DERYA.US

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