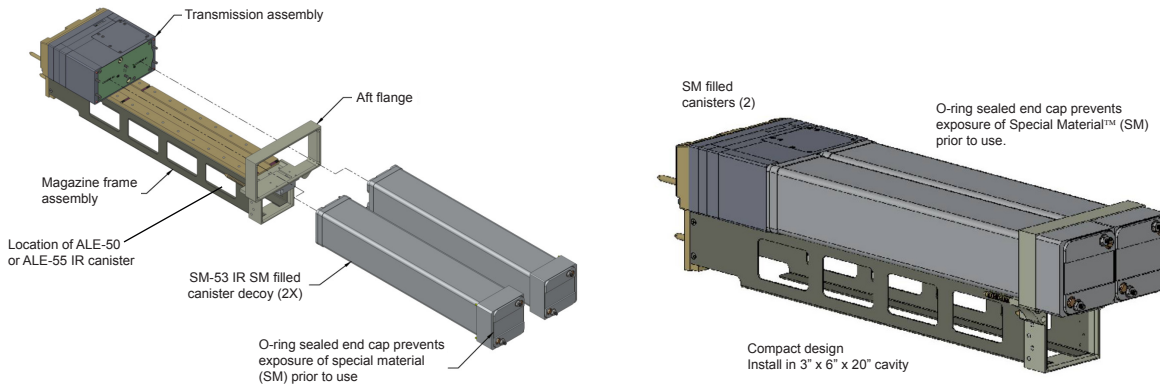


Aeromechanical Systems > Countermeasures

SM-53 Magazine / Pre-emptive IR protection



Key features

- Fits in ALE-50/55 launcher on Super Hornet
- Metering allows fine control over pattern
- Missile warning not required, works pre-emptive from exiting ALE-50/55 interface
- Dispense pattern can be stored in magazine itself
- Sealed metal can for long shelf life and service life

The SM-53 Magazine converts the ALE-50/55 RF decoy system into an advanced infrared expendable decoy system. It does this in a flightline configurable manner, in that the only action required to prepare the system for flight, is to install the appropriate magazine (ALE-55 RF decoy or SM-53 IR decoy).

The SM-53 capitalizes on the existing ALE-50/55 launcher system in three main areas:

- 1) It uses the ALE-50/55 chassis to house the SM-53 magazine.
- 2) It uses the ALE-50/55 conditioned/redundant power and (squib fire) commands sent from the cockpit.
- 3) It passes BIT information through the ALE-50/55 Launch Controller (IMPLC) back to the cockpit.

The SM-53 can be installed in aircraft equipped with ALE-50/55 decoy dispensers (such as the F-18E/F) with no aircraft modifications.

The SM-53 magazine can be programmed to dispense pyrophoric material continuously or to dispense in bursts of virtually any duration and separation ("patterns"). The SM-53 system consists of a magazine (electrical backplane, transmission, and frame assembly) and two all metal o-ring sealed decoy canisters that are installed in the magazine.

When the canister is loaded with pyrophoric material, it is referred to as a "canister decoy". The SM-53 magazine supports both the original RF decoys and the new SM-53 IR Decoys. It holds a total of 3 decoys. Two of one type and one of the other (i.e. Two IR canister decoys and one RF canister decoy or one IR canister decoy and two RF canister decoys).

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Specifications

| | |
|-------------------------------------|--|
| Size | 6" x 8" x 24" |
| Weight (Full) | 30 lbs |
| Power | ALE-50 compatible |
| Aircraft systems interface/mounting | ALE-50 launcher |
| Pyrotechnics | none |
| Environmental | Operating temperature -54c to 70c Storage temperature -65c to 90c |

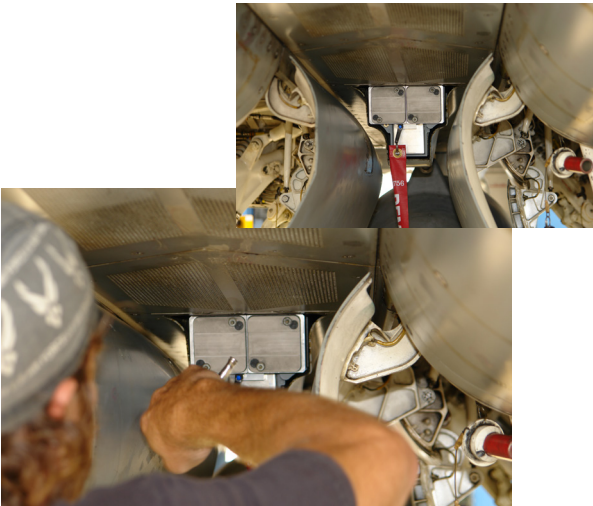
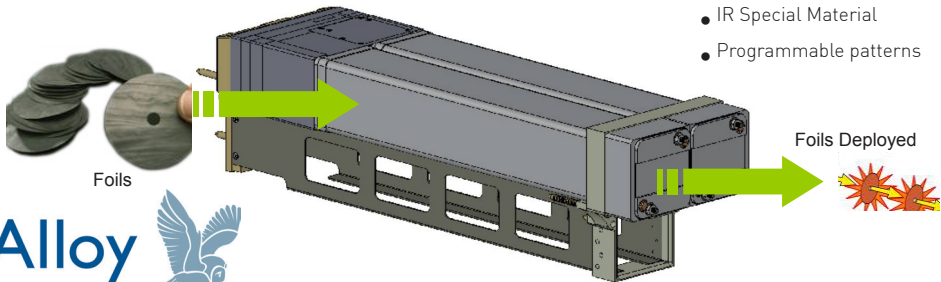
Contact

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- 2 canisters
- Fine pattern control
- IR Special Material
- Programmable patterns



SM-53 being installed in F-18

Specification subject to change - TCO Review #75