



AEROFINA

TECHNICAL SHEET LM52M2/AS MISSILE LAUNCHER FOR MAGIC-2

Type:
LM52M2
LM52AS

Code:
A01
A02



DESTINATION

LM52M2 / LM52AS Launcher provides for a locked flight, preparation and firing of MAGIC 2 auto guided infrared missile.

UTILISATION

LM52M2 / LM52AS Launcher equips MiG21 Lancer aircrafts.

TECHNICAL DATA

Operational characteristics:

LM52M2 / LM52AS Launcher provides for:

- Transport of locked operational or training missile;
- Signaling and reconnaissance of operational or training missile;
- Normal firing sequence of operational or training missile;
- Transfer of operational or training missile firing sequence;
- Emergency firing sequence of operational or training missile;
- Safety on ground and in flight.

During the firing sequence, LM52M2 / LM52AS Launcher provides for performance of phases of missile putting into operation:

- PRE-HEATING;
- PREPARATION;
- AWAITING;
- SCANNING ACTUATION;
- LOCKING AND FOLLOW-UP;

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- UNLOCKING;
- FIRING SEQUENCE.

Functions accomplished by LM52M2 equipment or sub-assemblies:

- **Block for putting into operation and firing** produces and provides for the following functions: preparation, battery heating, photodiode cooling pre-jettison, firing jettison and emergency jettison ;
- **Relay and control box** provides for scanning control of MAGIC-2 missile in autonomous and slaved regime;
- **Power supply block** supplied from aircraft on 115V/300–900Hz monophase, it generates continuous voltages +12V stabilized and a continuous V_e voltage filtered obtained directly from 115Vac rectified. This voltage is designed to supply the Relay and control box;
- **Frequency regulator unit** is a AC/DC converter supplied from the aircraft at a frequency ranging between 300Hz-900Hz which produces 2 alternative voltages of 26V and 18,7V, at a frequency of 400Hz stabilized at +3%;
- **Electromechanical lock** performs of missile on launcher and clamps the missile on the front fairing; a firing pin system mechanically connected with the lock allows to establish an electric connection with the ignition contacts of the actuating motor;
- **Cooling system** provides for gaseous nitrogen necessary to cool the photocell of the missile homing head during flight with locked missile. It consists of steady equipment (electrovalves, liltres, pneumatic unions) and a full nitrogen bottle.
- **Safety system** having a safety flap (by aerodynamics effect mechanically connected to an electric contact that interrupts the following pyrotechnics connections:
 - Energizing the source;
 - Firing the actuation motor.

TESTING & QUALIFICATION

All testing are performed accomplished to full MIL-STD-810F requirements.

CHARACTERISTICS

Overall dimensions:

Length 2705 mm;
Width 96 mm;
Height 190 mm.

Weight: 53±1kg.

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