eduard

1/48 Scale Plastic Model Kit



ProfiPACK edition

The small and simple sport plane, which was designed three quarters of a century ago is still popular today, and also a first-class legend for many.

In 1946, the Ministry of Defense of the then Czechoslovakia demanded an aircraft for the training of student pilots. It was to be a new domestic design with tandem cockpit arrangement allowing complex pilot training, including aerobatics or night flying.

The design team was led by the director of the Zlín Aviation Company Karel Tomáš, former co-founder of the Letov factory and chief designer of the Tatra aviation department in mid-30s. Tatra was manufacturing licensed Bückers Bü 131 but later continued with the aircraft of their own design such as Tatra T-101 and T-201. It was no wonder Karel Tomáš based the design of the new type on the T-201, however, he led the design team remotely, because he had to leave for Avia in 1946 and further development of the Trener was subsequently taken over by Svatopluk Zámečník and Jiří Navrátil. The new trainer was of mixed construction with a welded tube frame fuselage covered in the middle and rear part with canvas. The wing was all-wood, with canvas cover from the spar to the trailing edge. The tail surfaces were also of wooden construction, the rudders covered with canvas. The landing flaps were electromechanically operated, the brakes were hydraulically operated. A Walter Minor 4-III four-cylinder engine with a maximum output of 77 kW (105 hp) was selected and mated with the wooden propeller of the V-26.

First changes

Factory pilot Ladislav Šváb flew the first prototype on October 20, 1947, and after the design of the team of Mr. Tomáš had been declared winner over the competing Praga E-112, serial production began in 1949 with the military designation C-5 and the civilian designation Z-26. Within two years, 163 of these aircraft were built, primarily for military training. However, aircraft were also supplied to aero clubs, and exported to Poland and Romania. Problems with the wooden wing led to its redesign to an all-metal structure. The shape of the wing was modified, as the originally bent trailing edge was "straightened". The tail surfaces were also given a metal construction, and the curved tips were consequently replaced by straight ends to simplify production. The hydraulic brakes were replaced by simpler mechanical ones. Some Z-26 and Z-126 aircraft received an electric starter, but these were later removed to save weight and replaced by a manual starter. In both cases they were flown solo from the front seat. Altogether, 166 of the Z-126 (military designation C-105) were produced and exported to eleven countries.

The six-cylinder introduced

Thanks to the Z-26 line, aerobatic training became a common thing in the Czechoslovakia, and also towing capability was recognized. However, the four-cylinder engine lacked power, so a six-cylinder Minor 6-III with 118 kW (160 hp) was installed,

coupled with a towing propeller. The longer engine necessitated moving the oil tank from the engine bulkhead to the root of the left wing, and some weight was saved by removing the instruments and controls from the forward cockpit, where only the seat remained. The electric control of the flaps was also removed and replaced with a mechanical one. All this created the "workhorse" of the aero clubs of the time, the Z-226B Bohatýr (Hero) tug.

Thanks to the experience with the Z-226B version, it was decided to build a trainer version, the Z-226T based on the six-cylinder design. And this version proved to be excellent aerobatic aircraft.

Another engine change

In the second half of the seventies, a shortage of Minor 6-III engines caused the need to retrofit four-cylinder Minor 4-IIIs to the existing Z-226Ts. However, the oil tank in the root of the left wing was retained, as was the mechanical control of the flaps. This resulted in a total of 22 Z-126Ts built. Later, when the six -cylinder engines became available again, they were converted to the Z-226 standard, but in many cases, instead of the Minor 6-III the more advanced M-137 engine with an output of 132 kW (178 hp) was installed. This powerplant was also coupled to a wooden propeller, and depending on the intended use, either a cruising or a towing one could be installed.

From 1986, some Z-226Ms began to be converted to the Z-226MS version. The modification was made by the installation of V-503A metal propeller with automatic pitch control. The development subsequently led to a modernized version Z-326 Trener Master (C-305) and then a derivative version Z-526. Another significant modernization emerged in the form of the Z-726 type, which, however, was the swan song of the development of two-seat Trainers.

This kit: Z-326 Trenér Master

In 1957, design of the Trenér underwent a major upgrade. The aircraft received retractable landing gear, a new cockpit canopy, hydraulic brake controls and the ability to install additional fuel tanks on the wing tips. At the same time, the volume of the internal tanks was increased from 35 liters to 45 liters. The dihedral of the wing was also changed. The WM 6-III engine was used, later replaced by the M-137 unit. The version powered by the latter was designated Z-326M. The installation of the V-503A automatically adjustable propeller resulted in the Z-326MF version. Out of a total production of 420 units, ten Z-326 Trener Master aircraft were delivered to the then Czechoslovak People's Army for the training purposes of new recruits. These were designated Zlin C-305 and were equipped with undercarriage signal lights and the flares dispenser under the belly. Most of the production of Z-326 went for export to many countries.

Carefully read instruction sheet before assembling. When you use glue or paint, do not use near open flame and use in well ventilated room. Keep out of reach of small children. Children must not be allowed to suck any part, or pull vinyl bag over the head.



Před započetím stavby si pečlivě prostudujte stavební návod. Při používání barev a lepidel pracujte v dobre větrané místnosti. Lepidla ani barvy nepoužívejte v blízkosti otevřeného ohně. Model není určen malým dětem, mohlo by dojít k požití drobných dílů.

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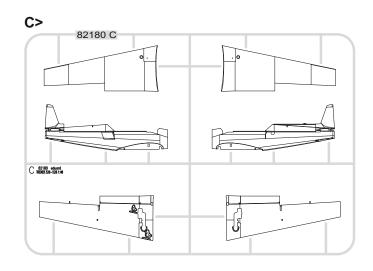
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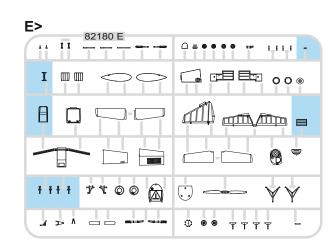


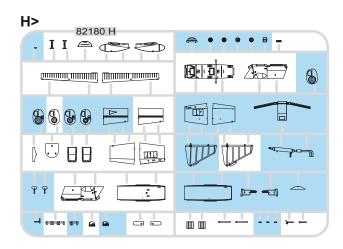
PLEASE, CHECK THE LATEST VERSION OF THE INSTRUCTION ON www.eduard.com

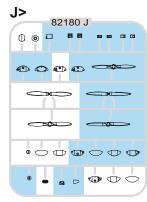
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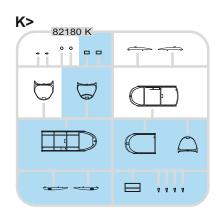
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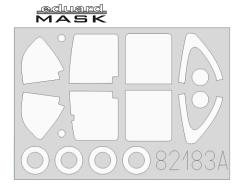


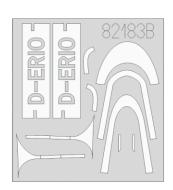


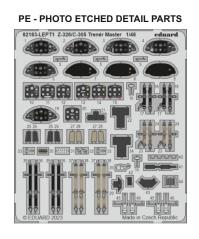


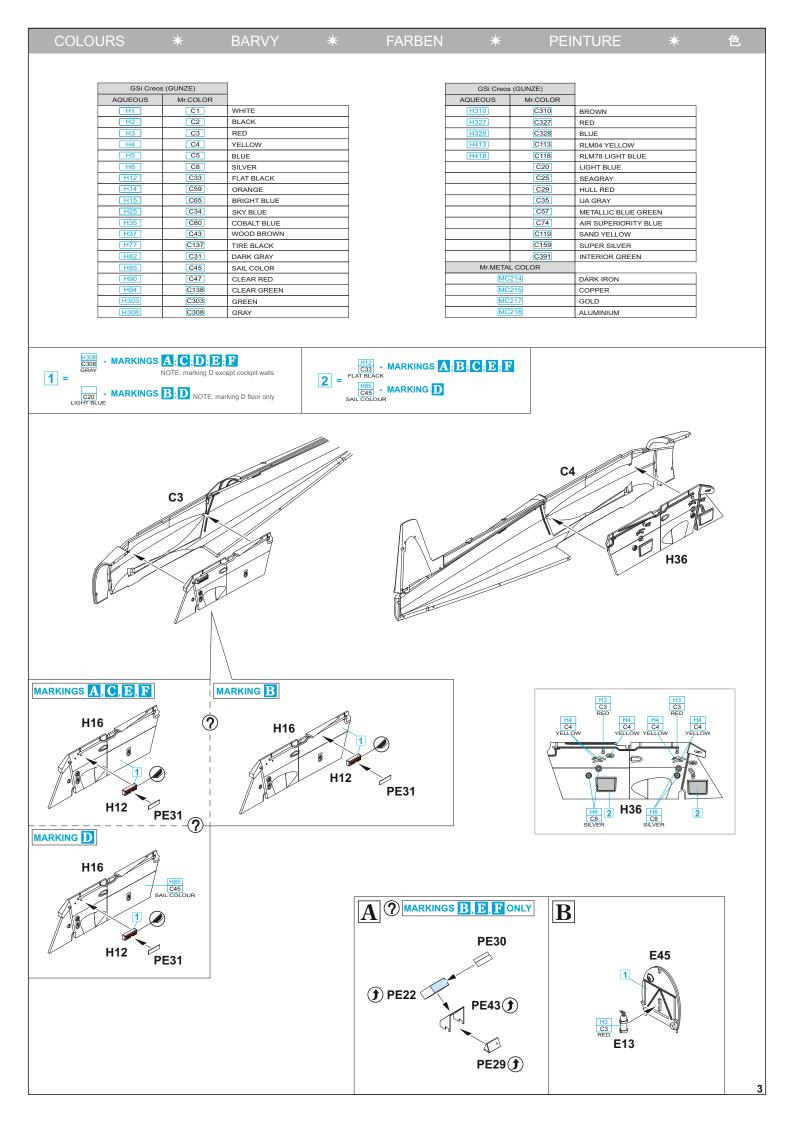


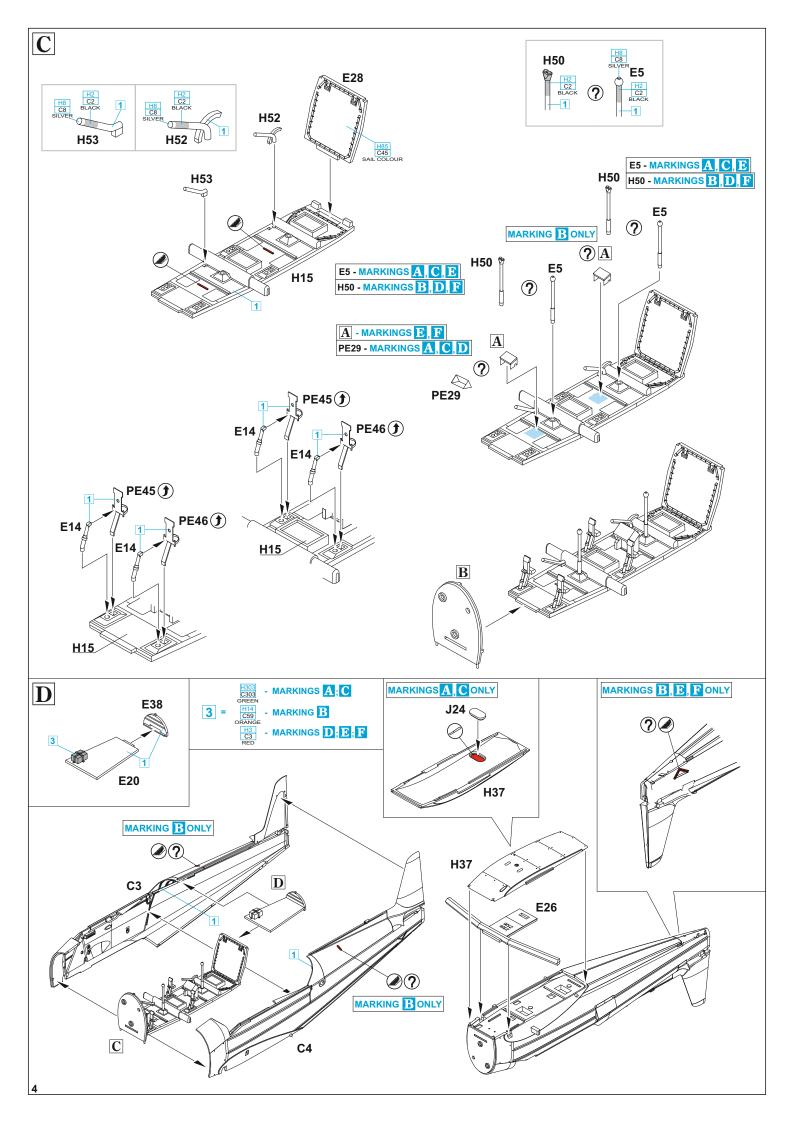


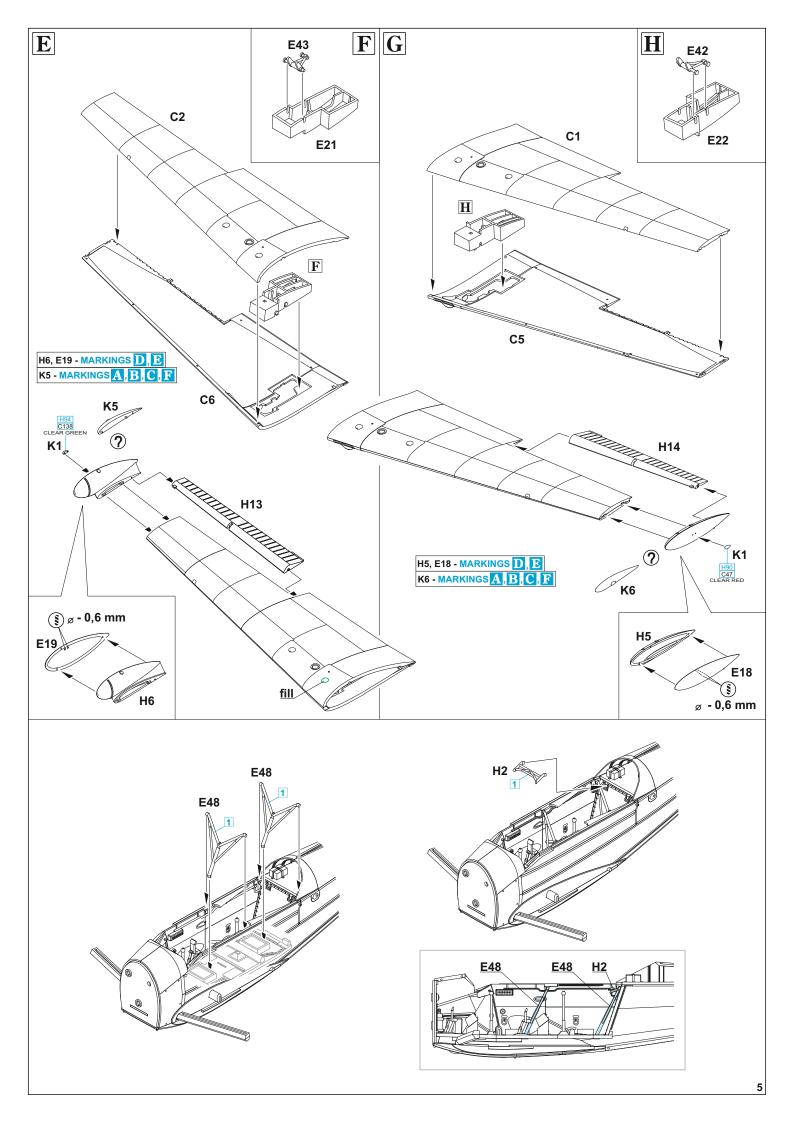


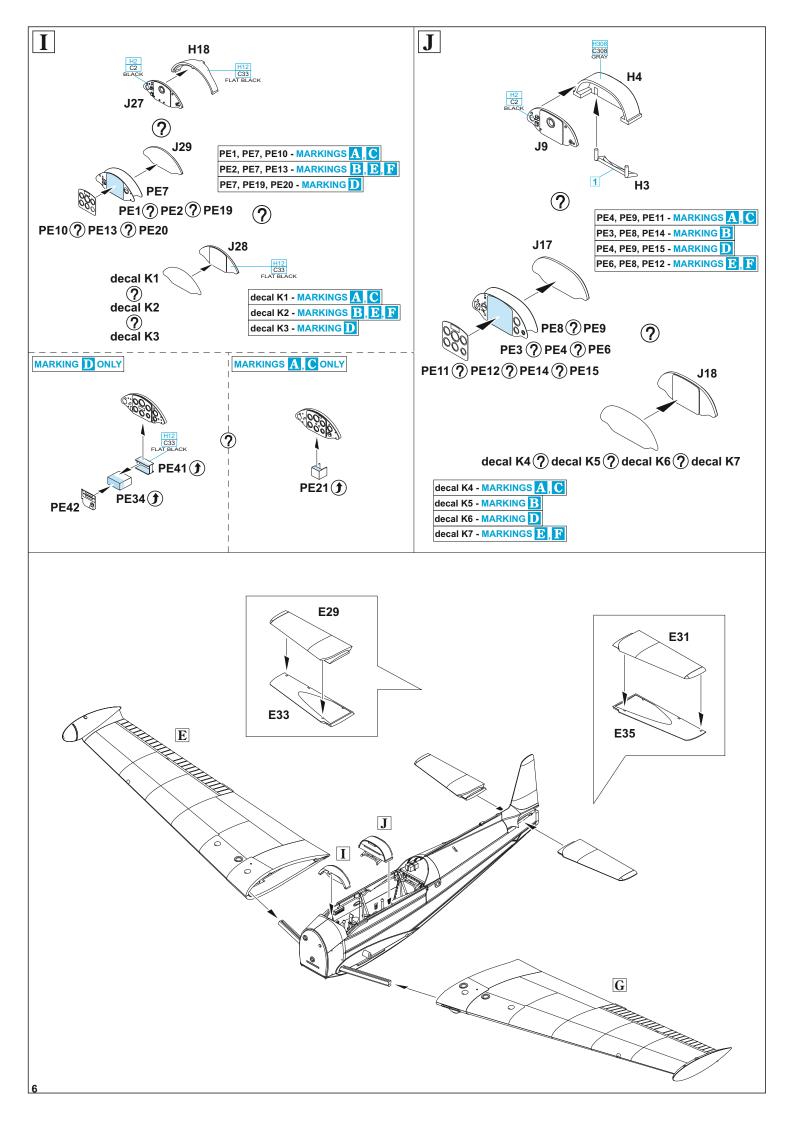


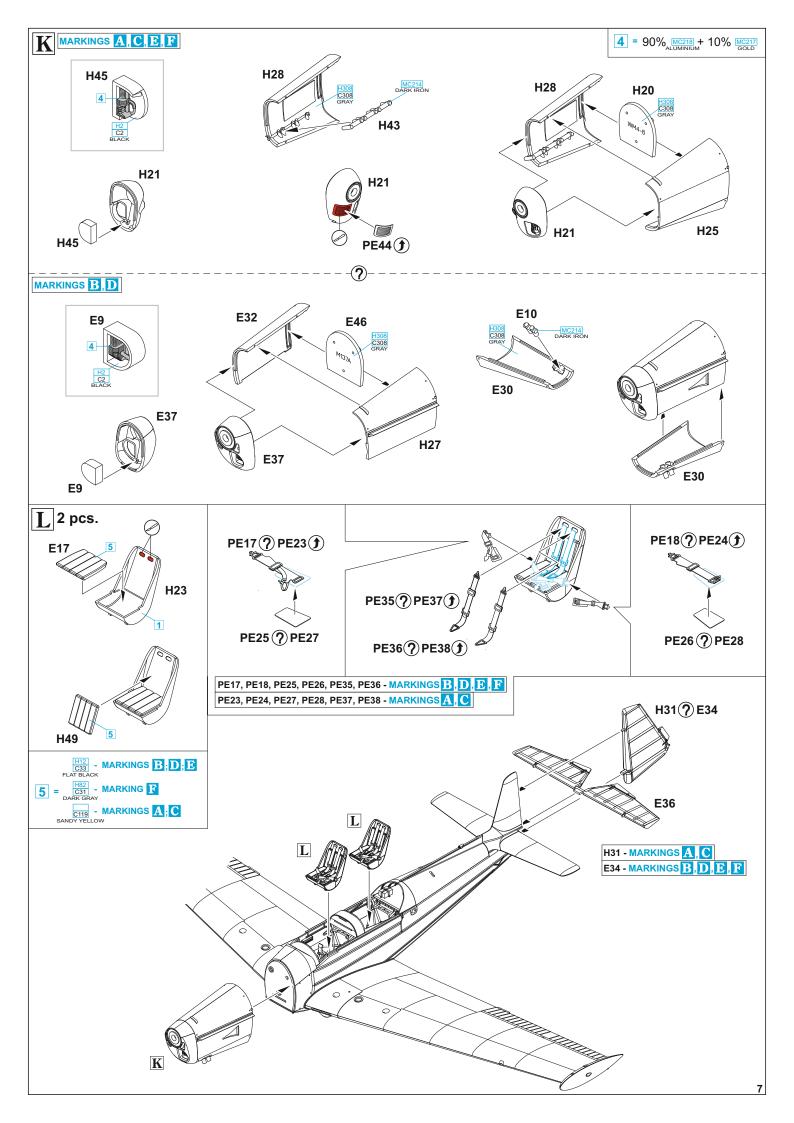


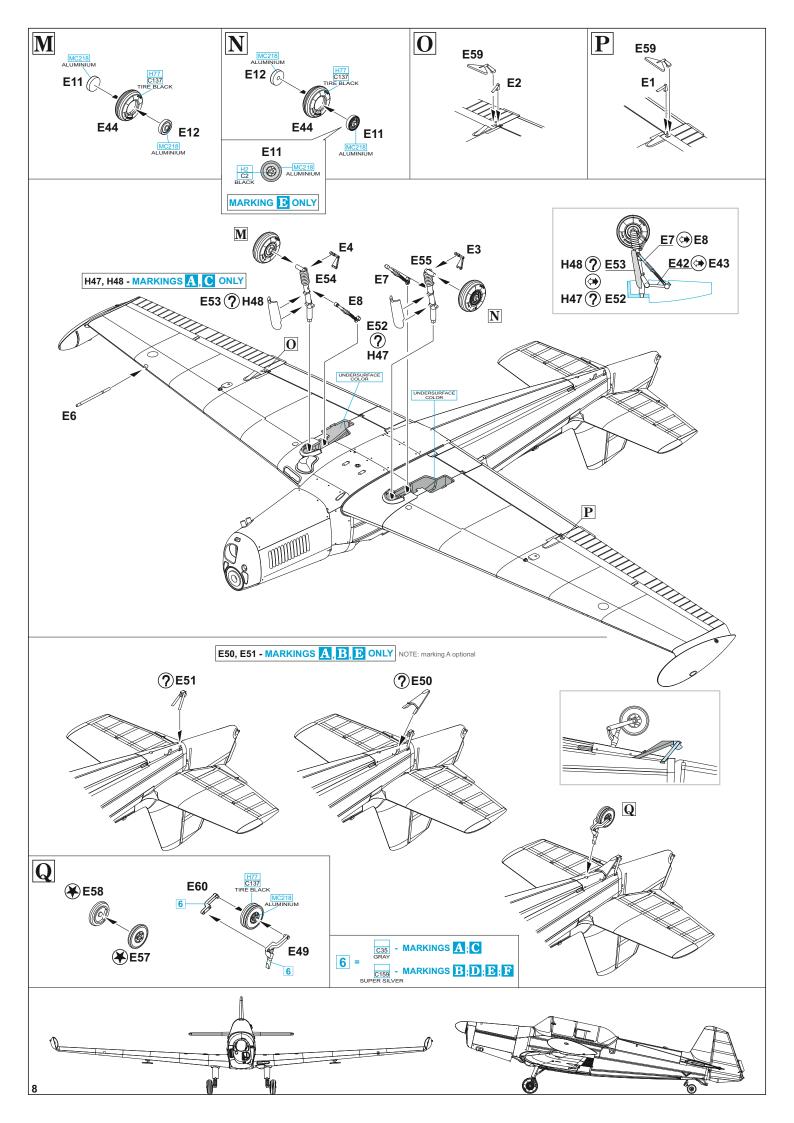


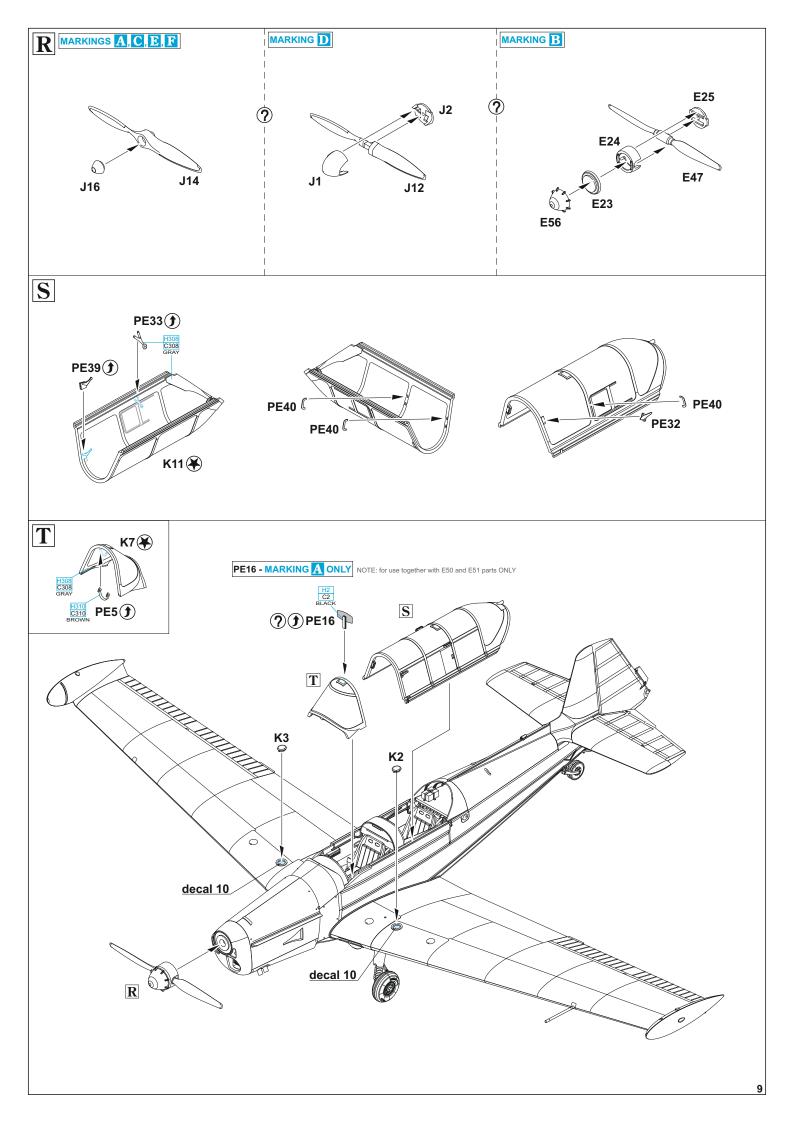


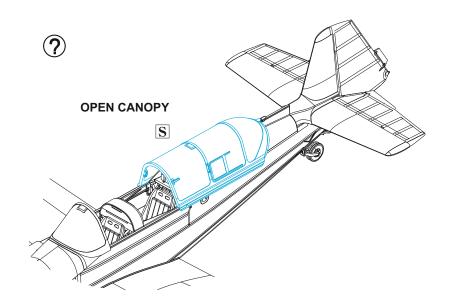




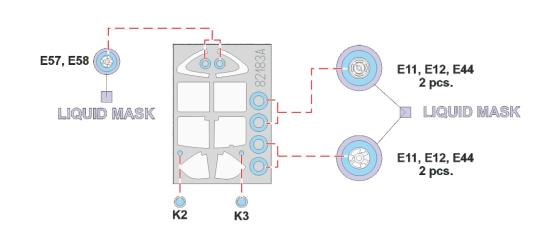


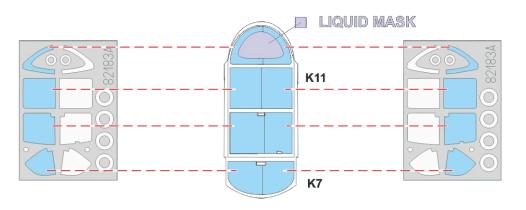




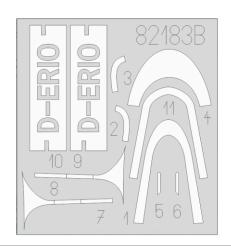












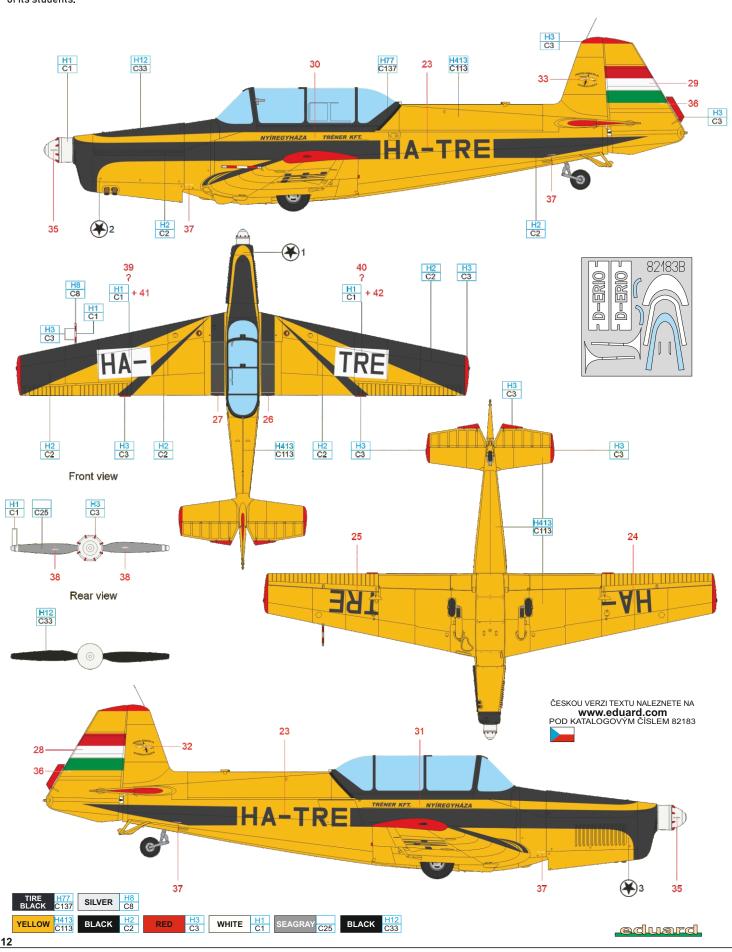
Z-326, No. 610, Kladno Aero Club, Kladno Airfield, Czechoslovakia, 1975

This aircraft served as C-305 in the military aeroclub of Czechoslovak People's Army for basic training of student pilots. During this service an unspecified collision (on the ground) with other aircraft occurred according to some sources, resulting in fuselage damage. The aircraft was repaired but lost its aerobatic category classification and was overhanded to the civilian Kladno Aero Club at the end of September 1972. Prior to conversion to the tug version, it was used for training and navigation flights. The aircraft retained the overall silver livery as it was used in army, but the nose was adorned with blue color, while wingtips and top of the vertical stabilizer were painted red. More to it, the cartoon of the smiling crab was painted on the port side of the nose with unusually stylized Trenér Master inscription above it. The painting was based on a cartoon by Pavel Kantorek, Czechoslovak professor of physical science at Ryerson University, Toronto. He was author of many humorous cartoons with animals starring in the main role.



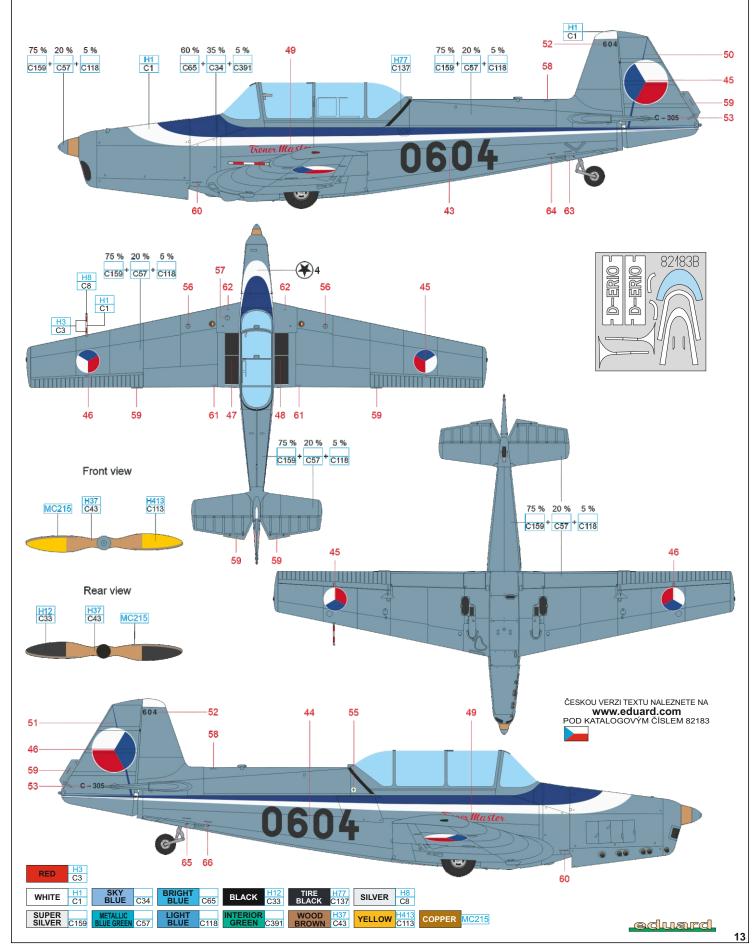
Z-326MF, No. 918, Repülőiskola Nyíregyháza, Nyíregyháza Airport, Hungaria, 2020

Hungaria is one of the countries, where the Trenér family is very popular. There were 12 of Z-326 Trenér Masters delivered directly from the factory in 1961 and 1962, but this one is not one of them. This aircraft was sold to Gabon (Air service Libreville) in December 1966 with registration mark TR-LMX and later was delivered to France, where it was flying under registration F-BSTA as Z-326. The conversion to MF version was done in Hungary and the aircraft sported non-standard right engine cover – the one used on Z-326 powered by Walter Minor 6-III engine, i.e., with four wide louvres. This was later changed for the standard cover for the M-137 engine. Today, the University of Nyíregyháza is the owner of the aircraft and uses it along other ones for pilot training of its students.



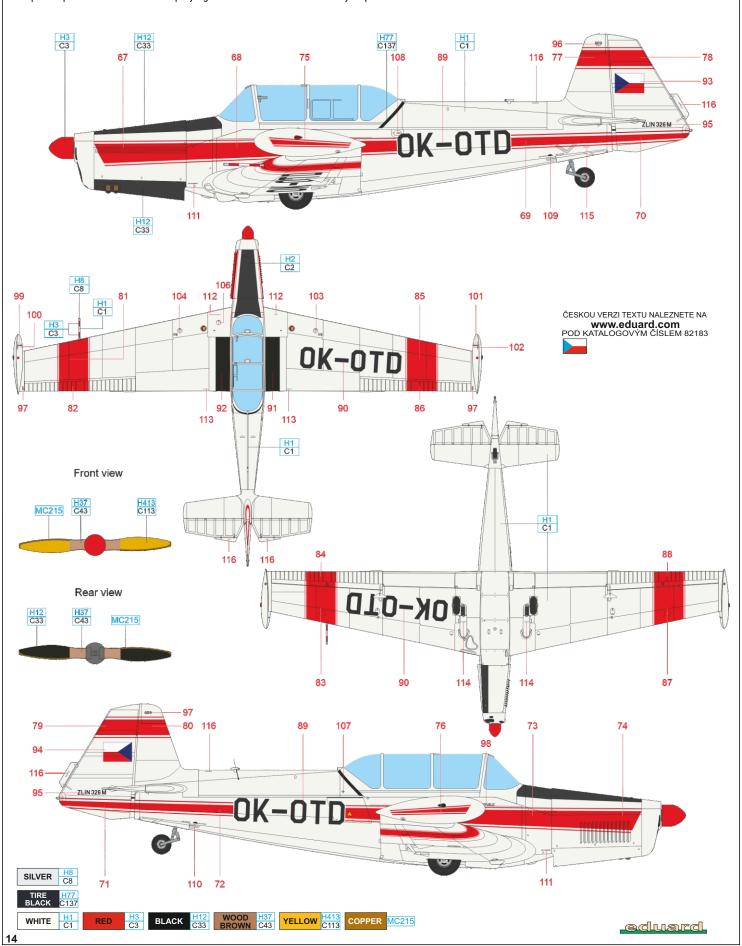
C-305, No. 604, Czechoslovak People's Army, Czechoslovakia, 1965

Czechoslovak People's Army obtained ten Z-326 in military version C-305. These aircraft varied only slightly from the civilian ones, as they were equipped with small indication lights on the undercarriage leg covers and with the signal rockets dispenser under the belly with corresponding control panel in the cockpit. These served for basic pilot training in Military Aero Clubs, where young beginners were starting their career of military pilots prior to enlisting. Some aircraft were flying in simple silver livery, other obtained attractive three-tone coloring with metallic light blue-green as a basic one. This aircraft was handed over to civilian Aero Clubs representative (Svazarm organization) on May 8, 1968 and was assigned to Vrchlabí Aero Club consequently. Later it was transferred to Olomouc Aero Club and finally to nearby Prostějov Aero Club, where it is flying with OK-OTA registration today.



Z-326M, No. 609, private owners, Slaný Airfield, Czech Republic, 2022

This is one of the still flying aircraft produced as C-305 for the Czechoslovak People's Army. It was handed over to the civilian Svazarm organization on May 26, 1972 and was given the OK-OTD registration. It served in the Aero Clubs of Točná, Kladno and briefly also Jičín, where it reached its time between overhauls and was grounded. During the process of the assets allocation of the then Aero Club of the Czecho-Slovak Federation Republic, this aircraft was assigned to the Aero Club Polička. There it underwent overhaul, making it airworthy again, and also the conversion to the Z-326M version. The Aero Club than used it primarily for towing of sailplanes. In 2006, however, it was sold to a private owner who operated it at the Líně airport. Subsequently, it was sold to a pair of private owners who keep flying this Trenér Master from Slaný airport.



Z-326, No. 902, private owner, Großenhain, Germany, 2022

In 1963 the management of the Moravan Otrokovice company officially ended the production of the Z 26 series aircraft. So, this Z-326 serial number 902 was manufactured as the "last" of all Trenérs and was factory stored until 1965. However, the customer demand was strong, so after two years, serial production was running again. In June 1965, the No. 902 aircraft left Czechoslovakia for France with registration F-BMQX. One of its first bases was Villefranche Airport. After completing its flight school career, it was stored and later sold to Switzerland. Since 1992 it was in the possession of Groupement Avion Historique in Lausanne. At that time, but also shortly after being sold to Germany, it bore the registration HB-TCB. In this form, it also briefly appeared during maintenance in the Czech Republic. It was registered as D-ERIO after 2015 and remains privately held.



After manufactured in 1963, this Z-326 was factory stored until June 25, 1965, when it was handed over to a French customer. It served in the flying school in Challes and later was in the inventory of Association Pour La Sauvegarde Des Avions Anciens. It is a part of another group of enthusiasts today, Escadrille Orion, based at the Marmande Virazeil airfield. 150 152 H1 C1 H327 C327 H328 + H15 C328 + C65 H1 C1 147 H327 C327 OCP = 80 % 20 % H328 + H15 C328 + C65 H327 C327 145 H327 C327 H327 C327 80 % 20 % C328 + C65 H8 C8 H1 C1 H328 C328 + H15 C65 H3 C3 80 % 20 % H328 + H15 C328 + C65 149 148 Front view H1 C1 80 % 20 % MC215 H1 C1 C328 + H15 144 80 % 20 % C328 + C65 E-BWOZ Rear view H1 C1 C25 MC215 ČESKOU VERZI TEXTU NALEZNETE NA **www.eduard.com** POD KATALOGOVÝM ČÍSLEM 82183 152 146 OCP# 145 SILVER

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