

GERMAN TORNADO CAMOUFLAGE GUIDE

NORM '76

This early scheme was used in 1982 and 1983. Silver grey RAL 7001 on the underside, with a disruptive pattern of RAL 6014, 7012 and black on the side and upper surfaces.

NORM '76 SERIALS

Aviation News¹ reported in 1983 that “from, and including, 43+90” were to be painted in the Norm '83 Scheme and that earlier air force Tornados would be repainted. From that it is reasonable to presume that any Luftwaffe aircraft up to and including 43+89 would, for a time, have been painted in the early scheme. Modeldecalsheet 87 slightly contradicts this in the fact that 43+90 is shown in the initial scheme.

The initial scheme is fairly easy to identify in black and white or colour photographs because of the black area around the cockpit.

The German pre production machines were also painted in this scheme, with the additional of day-glo panels on the wing tips, fin and around the nose between the radome and the front of the cockpit canopy.



Photo: Nathan Robinson Slide Collection

98+06 (above) is a pre-production machine (PO7) This, the third German prototype was used for terrain following and autopilot trials². The day-glo orange did not appear on in service machines, but otherwise it is a good

representation of the early camouflage scheme. Model Decal Sheet 87 is a good source of markings for this initial scheme. The Airfix 1/72 Tornado GR1 kit also had marking for a WAKO machine in this scheme³.

NORM '76 PAINTS

RAL 6014 Gelboliv

- Humbrol 155, Xtracolor X251

RAL 7001 Silbergrau

- Revell 374, Xtracolor X255

RAL 7012 Basaltgrau

- Revell 77, Xtracolor X254

NORM '83

Norm 83 has a wrap-around disruptive pattern of Leaf Green, Olivegrun and Schwartzgrun.

The picture below (taken on the 6th of April 1987) is a great illustration of the Norm '83. The Luftwaffe aircraft 44+37, a IDS(T) is from Jagdbombergeschwader 32. It is seen in formation with an F-15C and an RAF GR.1 from 14 Squadron (then based at RAF Brüggen).



U.S. defense imagery photo no. DF-ST-89-01717, camera operator: SSgt. David Nolan, USAF, via commons.wikimedia.org

¹ Jackson, Paul A. (21st October - 3rd November 1983). NATO Notes. Aviation News. 12 (11), 478.

² Mason, Francis K (1986). Tornado. London: Patrick Stephens Limited. Appendix 3.

³ Teabea. (2010). Airfix Tornado Group Build - teabee's build . Available: http://airfixtributeforum.myfastforum.org/archive/airfix-tornado-group-build-teabee-s-build_o_t_t_19889.html. Last accessed 9th June 2012.

NORM '83 PAINTS

FS 34079 Leaf Green

- Gunze H309, Humbrol 116, Xtracolor X110

RAL 6003 Olivegrun

- Humbrol 86, Revell 361, Xtracolor X261

RAL 7021 Schwartzgrun

- Revell 9, Xtracolor X262

NORM '95

Norm '95 uses American Federal Standard colours and is a partial wrap-around of Dark and Light Compass Ghost Grey and Grey Blue.



Bundeswehr-Fotos Wir.Dienen.Deutschland, Erprobung Taurus, October 21, 2005 via Flickr, Creative Commons License, ©Bundeswehr/ Adolfs

Light Compass Grey appears on the lower fuselage and undersides. Blue Grey appears on the upper surfaces and the Dark Ghost Compass grey appears on the upper side and underside wing tips.

NORM '95 PAINTS

FS 35237 Grey Blue

- Gunze H337, Humbrol 145, Xtracolor X126

FS 36320 Dark Compass Ghost Grey

- Gunze 307, Humbrol 128, Xtracolor X135

FS 36375 Light Compass Ghost Grey

- Gunze H308, Humbrol 127, Xtracolor X136

CONTEMPORARY SCHEME

The current scheme for the Luftwaffe Tornado is overall FS35237; the same scheme as the German Eurofighter Typhoons.



Ronnie Macdonald , Tornado GR4 08 (sic), July 17, 2010 via Flickr, Creative Commons License

CONTEMPORARY SCHEME PAINT GUIDE

FS 35237 Grey Blue

- Gunze H337, Humbrol 145, Xtracolor X126

MARINEFLIEGER

NORM '76

The first of the Marineflieger schemes had Basaltgrau uppersides and an almost off-white Lightgrau underside.



Photo Credit: © Pete M used with permission

NORM '76 PAINTS

RAL 7012 Basaltgrau

- Revell 77, Xtracolor X254

RAL 7035 Lightgrau

- Humbrol 196, Xtracolor X260

NORM '87

The final Marineflieger scheme featured a war-around of Basaltgrau, Grüngrau and Graublau. When the Marineflieger airframes were passed onto the Luftwaffe they retained the Norm '87 scheme for some time.



Photo Credit: © Pete M used with permission

NORM '87 PAINTS

RAL 7012 Basaltgrau

- Revell 77, Xtracolor X254

RAL 5008 Graublau

- Revell 351, Xtracolor X264

RAL 7009 Grüngrau

- Revell 67, Xtracolor X256

DETAIL PAINTING

COCKPIT

The main cockpit colour is FS 36231 Dark Gull Grey (Gunze H57, Humbrol 140, Tamiya XF-54, Xtracolor X131)



Ronny Stiffel, Tornado, Tornado PA 200 -Throttles, March 17, 2005 via Flickr, Creative Commons License.

EJECTOR SEAT



Ronny Stiffel, Tornado, Tornado PA 200 -engine ground run, March 17, 2005 via Flickr, Creative Commons License.

The main colour is FS 36321 Dark Gull Grey (Gunze H57, Humbrol 140, Tamiya XF-54, Xtracolor X131). The front portion of the headrest is black and straps are Olive Drab and Sand.

TAIL

The grey portion on the top of the fin is FS 36118 Gunship Grey (Gunze H305, Humbrol 125, Tamiya XF-24, Xtracolor X130).



emperley3, 2006 Meeting de l'air 33, June 18, 2006, via Flickr, Creative Commons License.

Wing Root Detail

The inboard area of the wing that is retracted into the fuselage when full wing sweep is employed displays considerable variation in tone and colour due to weathering and wear. FS36173 Dark Grey (Gunze H82, Humbrol 156, Tamiya XF-53) is a good starting point.