

Color Designation

1. SCOPE

1.1 The color standard designates the identification of the colors used within New Holland. The colors noted on the following tables shall be the only colors recognized by the New Holland Materials Engineering Activity.

1.2 This specification may involve hazardous materials, procedures and apparatus. This specification does not address the health and safety problems associated with its application or use. It is the specification user's responsibility to follow appropriate health or safety practices and determine the application or regulatory limitation prior to use.

1.3 This specification was released to define the color identification numbers used by New Holland.

2. DESIGNATION

The color numbers are to identify colors used by New Holland are listed in Table 1. The color identification part number shall be listed in paint and decal specifications to identify color requirements.

3. RELATED SPECIFICATIONS

3.1 REFERENCE STANDARD

86507637 (FNHA-2-J-001.02)—COLOR

4. REQUIREMENTS

The colors listed in Table 1 are applied to products under the New Holland specification's control.

4.1 COLOR CODE CONTROL

The control of the color codes will be in the following control sites.

4.1.1 Haytools GPL

The control site is New Holland, PA, USA. The code designation shall be NH-XX.

4.1.2 Tractor GPL

The control site is Basildon, England for the former Ford colors. The code designation is M-XXXX-X or RAL-XXXX.

The control site is Modena, Italy for the former Fiat colors. The code designation is TA-XX.

4.1.3 Industrial GPL

The control site is Imola, Italy. The code designation is TA-XX.

4.1.4 Combine GPL

The colors used are the same as Haytools GPL.

4.1.5 John Deere

The control site is John Deere Co., Moline, IL. The code designation is JDM XXX(X).

					NAME	STD COLOR		
ALL	V	BJF	118791	25JUN02	 NEW HOLLAND	ENGINEERING SPECIFICATION		
ALL	U	BJF	115717	09MAR01				
ALL	T	BJF	115604	08FEB01				
ALL	S	BJF	115468	18JAN01				
FRAME NO.	REV	BY	ECN NO.	DATE				
APP.	DRAWN		AP	3/94	THE INFORMATION HEREON IS THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF NEW HOLLAND N. V. AND/OR ITS SUBSIDIARIES. ANY USE, EXCEPT THAT FOR WHICH IT MAY BE LOANED, IS PROHIBITED.	FRAME 1 OF 5		
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4.1.6 ANSI

The control site is the ANSI Standard (MACBETH DIV. OF KELLMEIGER INSTR., P.O. BOX 230, NEWBURGH, NY 12551). The code designation is XXXXX.

4.1.7 Catepillar

The control site is the Catepillar Co., Peoria, IL. The code designation is XEXXXX.

4.1.8 Gehl

The control site is the Gehl Co., West Bend, WI. The code designation is GX.

4.1.9 Case

The control site is the Case Co., Burr Ridge, IL.

5. COLOR STANDARDS

5.1 Materials Engineering shall be responsible for manufacturing, color match, and inventory of all color standards recognized by this specification. OEM color match and approval shall be handled by the appropriate OEM.

5.2 Color match acceptance criteria for production paint, decals, and finished parts is ΔE [1.0 and visual color match, per standard 86507637 (FNHA-2-J-001.02.)

5.3 Color match acceptance criteria for color master standards needs to be controlled to a much tighter tolerance than color match for production parts. Master standard color chips should be held within ΔE [0.199, in addition to visually matching the master standard.

5.4 When color is matched for production, the usage of visual match in conjunction with readings from a color spectrophotometer is preferred practice. The Spectrophotometer result shall be less than the ΔE value mentioned in section 5.2 with visual agreement. Recommended reading area for a color sample shall be a minimum of 3038 mm² (4.7 in²) and a minimum reading area of 5060 mm² (7.8 in²) for master color chips. All readings shall be averaged to represent the color surface.

Recommended hand held spectrophotometer is Gretag Macbeth's ColorEye XTH. The controlling reference for measured color shall be New Holland, PA, USA's, Gretag Macbeth ColorEye 7000.

6. THE MANUFACTURING OF COLOR MASTERS

6.1 The original color master is submitted to the color master manufacturer. They must read and develop a color match from their masters to be less than what was indicated in section 5.3. Metamerism shall be minimal. When this color is developed, it shall be submitted to New Holland Materials Engineering for evaluation.

6.2 Upon evaluation of submitted color master samples, New Holland Materials Engineer shall approve or disapprove the master chips. A portion of the chip shall be kept for future reference. If approval is granted, it must be in writing and a copy kept with the reference chip. All reference chips shall be signed and dated.

6.3 Color master chips shall not vary greater than ΔE 0.099 from top to bottom and from side to side. The original reading shall be taken in the center of the master chip.

6.4 The development of new master chips after a batch has been created shall be in the same color quadrant the original batch was made and shall be developed from the original master.

7. SUPPLIER RESPONSIBILITY

All colors supplied to this specification shall be equivalent in all characteristics to the color upon which approval was originally granted. Prior to the making of any changes in the color originally approved under this specification, whether or not such changes affect the ability to meet this specification requirements, the supplier shall notify Purchasing and the affected Materials Engineering activity of the proposed changes. Test data, test samples and a new supplier code identification are to be submitted with the request. The supplier shall obtain the written approval from the Material Engineering activity prior to any production of this change.

	NAME				PART NUMBER	
	STD COLOR				86505483	
ENGINEERING SPECIFICATION				REV. V	FRAME 2	OF 5