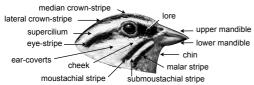
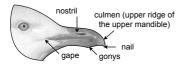
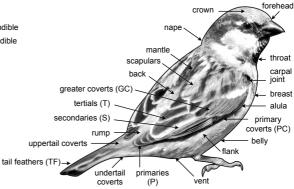
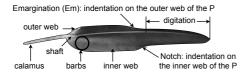
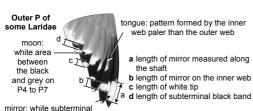
PLUMAGE AND TOPOGRAPHY



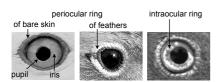


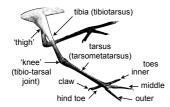


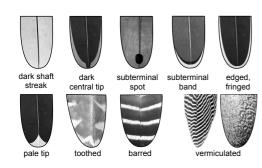


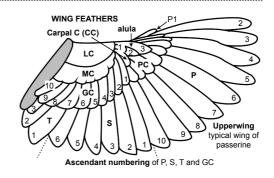


spot separated from the white tip by a dark line









WING FORMULA

How to use the figures

These figures are not intended to be an exact representation of the wing but are provided as a visual aid to the accompanying text.

The point of P2 usually falls between the points of P6 and P8, or is sometimes equal to the point of P6; infrequently among 1Y birds it can fall between the points of P5 and P6.

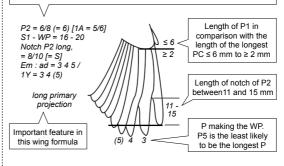
•S1 - WP = 16 - 20 The distance between the point of S1 and the wing point is between 16 and 20 mm.

• Notch P2 = 8/10 [= S]

The proximal end of the notch of P2 falls between the points of P8 and P10 or infrequently can equal the point of S1.

• Em : ad = 3 4 5 / 1Y = 3 4 (5)

P emarginated in both ad and 1Y birds. The emargination of P5 can be less common or less obvious for 1Y birds.



The P, S, T, C and TF illustrated are those of the right wing or the righthand side of the tail as it would appear to the observer when the bird is held in the left hand. The figures are numbered by species unless there is only one figure in a species' account. Figures in the 'Identification' section are numbered first in each species even if this section is not presented first. The figures are not necessarily all drawn to the same scale.

Ad (year of hatching unknown)

Ecking age codes – Simplified diagram for common cases (see definitions below)									
	Imm (year of hatching known) 1	1J	3J	3		5	7		
	Ad (year of hatching unknown)	4				6	8		
Codes 1 1J 3 3J	Definition - Year of hatching known Pullus Passeriformes only – fledged, but fly obviously incapable of having flown far Definitely hatched during current calent Passeriformes only – like 3 but still juvenile body plumage	from dar ye partly	the nes ar y or c	st [*] ompletely	2 4 in 6	Definition - Year of hatching unknown Age unknown – only to be used if data have been lost and the ringer has no idea if a bird was a nestling or full-grown Fully grown, year of hatching quite unknown Hatched before current calendar year – exact year unknown (eg +1Y) in autumn) Hatched before last calendar year – exact year unknown (eg +2Y) in action			
5 7	Definitely hatched during previous calendar year (eg 2Y in early spring) Definitely hatched 2 years before the current calendar year					+2Y in spring) Hatched 3 or more years ago – exact year unknown			

ABBREVIATIONS AND SYMBOLS

ABBREVIATIONS AND SYMBOLS								
In the absence of any contrary indication, a	Em F	Emargination	sp, spp	Species (plural)				
mention of the feathers of the wing refers		Female(s)	ssp, sspp	Subspecies (plural)				
only to the upper side of the wing. See the	Fig	Figure(s)	Subad	Subadult(s)				
inside flap of the front cover.	g GC	Gramme(s)	T	Tertial(s)				
01, 02, 12 month of the year (January,	GC	Greater Covert(s)	TF	Tail Feather(s)				
February, December)	ld	Idem; in a table and without	W	West, western				
1Y, 2Y, first Year (calendar), second		other indication, refer to the	WP	Wing Point, in the wing formula				
Year		data to the immediate left	???	Should be checked or missing				
+1Y, +2Y, more than 1 Year, more than 2	ie	That is to say		data				
Years, (often similar to 'Ad')	lmm	Immature(s)	<, ≤	Less than, less than or equal to				
A/N Author's note	Ind	Individual(s)	>,≥	Greater than, greater than or				
Ad Adult(s)	Juv	Juvenile(s)	•	egual to				
avg Average	LC	Lesser Covert(s)	≈	Approximately, nearly				
BP Brood Patch	M	Male(s)	≠	Different				
BTO British Trust for Ornithology	Max	Maximum	±	More or less				
C Covert(s)	MC	Median Covert(s)	()	Usually, means less common				
CC Carpal Covert	Min	Minimum `´	` '	cases; for the notch and the Em				
CP Cloacal Protuberance	mm	Millimetre(s)		of P, means 'less common' or				
cm Centimetre(s)	N	North, northern		'less obvious'				
CRBPO Centre de Recherches par le	Р	Primary(ies)	[]	Usually, means exceptional				
Baguage des Populations	PC	Primary Covert(s)		cases; for the notch and the Em				
d'Oiseaux (Paris)	Postjuv	Postjuvenile(s)		of P, means 'exceptional' or				
E East, eastern	S	Secondary(ies)		'only slight'				
eg For example	S	South, southern		, 0				

GLOSSARY

For the correct terminology relating to the topography and plumage of a bird, see the inside flap of the front cover. For those terms used in relation to moult see Chapter 4 of the Introduction. Alloy; for rings, Magnesium – Aluminium Alloy Apteria: areas between pterylae, usually naked or only covered with the dependent of the period o

short semiplume feathers in ad Axillary: relating to the axilla or 'arm-pit' of a bird and the feathers close to the body at the underside of the base of the wing Body feather; feathers covering all of the body with the exception of the

wings or tail

wings or tall
Breeding (plumages): plumage worn during all or part of the breeding
season but sometimes acquired well before
Bristle: similar in appearance to whiskers in a mammal; a feather
consisting largely of just the shaft with few or no barbs; often located
around the mouth or the eyes
Cere: the fleshy covering of the upper part of upper mandible in certain

spp, particularly raptors

Cline, clinal: a progressive variation in a feature, e.g. shade of a colour, associated with the geographic distribution of different populations of the same sp

Dimorphic: occurring in two forms or sizes, generally according to the

Distal: the end (of a limb, a feather...) furthest from the body
Filoplume: fine, hair-like feather associated with sensory perception in relation to position

Fingers: the distal ends of the P (emarginated/notched) often used when referring to diurnal raptors and other large soaring or gliding birds

Flight feathers: P, S and TF

Integradation: hybridization between sspp or different races of the same sp Hand: P, PC and alula Monotypic: those species that do not have recognized geographic

variations (ssp) (opposite: polytypic)

Primary projection: distance between the tip of the longest T and P on the closed wing Proximal: the end (of a limb, a feather...) nearest to the body

Proximal: the end (of a limb, a feather...) nearest to the body Pterylae: major feather tracts (of Apteria) Saddle: a neatly contrasting region in the upper body feathers, being either paler or darker than the rest of the body upperparts Speculum: characteristic pattern of S and GC in some Anatidae, part of brightly colored S often with a metallic sheen Syrinx: the organ that enables birds to sing, situated at the junction between the trachea and the bronchi Tertiary coverts: in waders, those MC closest to the body near the T and can include the smallest GC

Underparts, upperparts: in the absence of a more precise description, means underparts or upperparts of the entire body

COLOURS
Describing colours is always difficult as visual perception can vary between one person and another. For a compound colour the 2nd colour mentioned will be considered to dominate the first, eg browngrey is more grey than brown.

Amber: orange-yellow
Ash: medium grey
Buff: pale brown-yellow
Chestnut: dull brown-red, darker rather than reddish

Cinnamon: pale reddish-brown with a hint of yellow

Cream: very pale yellow-buff Flesh: pale yellowish-pink

Ochre: orange-brown Olive: dull grey-green, may have yellowish tint

Pearl: pale grey Slate: dark grey

Tawny: pale reddish-yellow or yellowish-brown Vinaceous: similar to a red wine stain on white clothing

Specifications of rings used by BTO - MA: Magnesium-Aluminium Alloy, SS: Stainless Steel

Diameter / height	Letter	Diameter / height	Letter	Diameter / height	Letter	Diameter / height	Letter
2.0 / 5.5	AA (MA)	3.3 / 5.5	B+ (incoloy)	9.0 / 8.7	FC (incoloy)	19.0 / 12.0	L (SS)
2.3 / 5.5	A (MA)	3.5 / 5.5	ČC (MÁ)	9.0 / 9.0	FV (incoloy)	26.0 / 8.7	M Inc (incoloy)
2.3 / 5.5	A2 (incoloy)	4.3 / 7.0	C (MA)	11,0 / 9.0	G (incoloy)	26.0 / 12.0	Eagle sp (SS)
2.5 - 4.0 / 4.0	ŠO (MÁ)	4.3 / 5.5	C2 (incoloy)	12.5 / 9.0	H (incoloy)	5 × 10 / 9.0	Raz (incoloy)
2.8 / 5.5	B (MA)	5.25 / 7.0	D2 (incoloy)	14.0 / 12.0	J (SS)	5 × 15 / 9.0	Guill (incoloy)
28/55	B2 (incolov)	70 /70	F sn (incolov)	16 0 / 12 0	K (SS)		