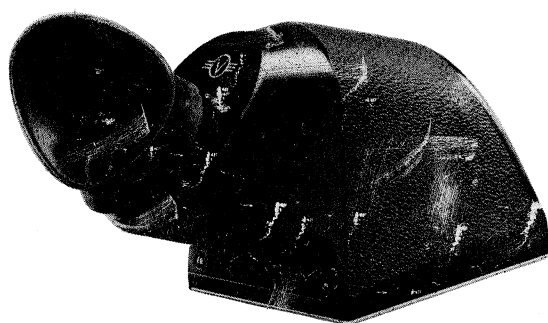
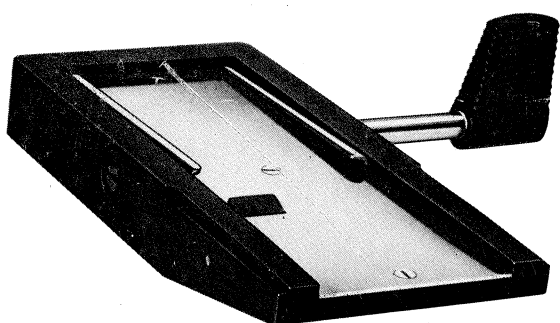
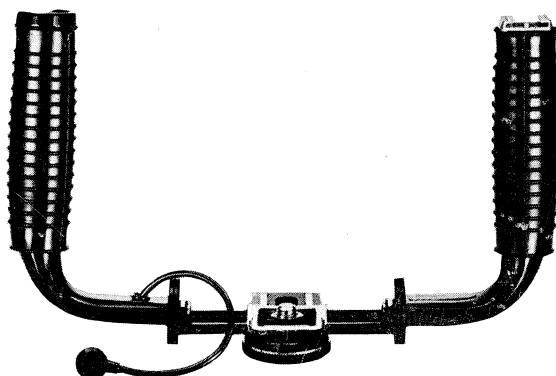


SPARE PARTS CATALOGUE
and
REPAIR MANUAL
HASSELBLAD ACCESSORIES



H A S S E L B L A D
SWEDEN

This handbook, HASSELBLAD ACCESSORIES, has been designed as a spare parts catalog since most accessories do not require any special tools or servicing instructions.

The index consists of pictures of each accessory, making it easy to find the right article. On the back of each index page there are corresponding pictures with figures to indicate the various page numbers.

We have to emphasize how important it is for you to give the correct article number when ordering spare parts. This greatly facilitates the processing of your orders.

Parts not sold by us are marked with an “X” in the “PRICE-LIST FOR SPARE PARTS” which has been sent to you.

Sub-groupings surrounded by a dotted frame may be purchased completely assembled by indicating the part number which refers to the frame.

Parts marked with “CODE NO . . .” must always be ordered from our sales department and may not be mixed in with orders for spare parts.

Dieses Handbuch mit der Bezeichnung: HASSELBLAD ACCESSORIES ist, da für die meisten Zubehörteile weder Spezialwerkzeuge noch Reparaturinstruktionen erforderlich sind, mehr wie eine Art Ersatzteilkatalog aufgemacht.

Das sog. Schnellregister, das lediglich aus Bildern unserer Zubehörteile besteht, lässt Sie den gesuchten Artikel schnell finden. Auf der Rückseite jedes Registers finden Sie die entsprechenden Bilder mit Hinweis auf die jeweilige Blattnummer.

Wir möchten unterstreichen, wie wichtig es ist, dass Sie immer die korrekte Stücknummer bei der Bestellung von Ersatzteilen aufgeben — dadurch erleichtern Sie uns die Behandlung Ihrer Aufträge wesentlich.

Solche Einzelteile, die wir nicht zum Verkauf halten, sind in der speziellen PRICELIST FOR SPARE PARTS, die Ihnen zugestellt worden ist, mit einem Kreuz — X — gekennzeichnet.

Zusammengesetzte Einzelteile, die von einem Punkt-Strich-Rahmen umgeben sind, können bei Angabe der auf den Rahmen verweisenden Einzelteilnummer fertig montiert bestellt werden.

Mit CODE NO . . . gekennzeichnete Einzelteile müssen immer direkt von unserer Verkaufsabteilung bezogen und dürfen nicht mit der Ersatzteilbestellung durcheinander gebracht werden.

Ce manuel, intitulé HASSELBLAD ACCESSORIES, présente plutôt l'aspect d'un catalogue de pièces de rechange, étant donné que la plupart des accessoires n'exigent pas d'outillage spécial ni d'instructions de réparation.

«L'index de repérage rapide», qui n'est constitué que par des illustrations de nos accessoires, permet de trouver facilement l'article désiré. Au dos de chaque index figurent des illustrations correspondantes accompagnées de références numériques renvoyant aux numéros de page respectifs.

Nous nous permettons d'insister sur le fait qu'il importe de spécifier le numéro de référence correct lors de la commande de pièces de rechange; notre tâche, lors de l'expédition de ces commandes, en sera considérablement facilitée.

Les pièces dont nous n'assurons pas la vente sont marquées d'une croix (x) dans le PRICE-LIST FOR SPARE PARTS (= tarif des pièces de rechange) qui vous a été remis.

Les groupes de pièces encadrés d'un trait mixte peuvent être obtenus à l'état assemblé; à cet effet il convient de spécifier le numéro de référence du cadre.

Les pièces désignées par CODE NO. . . . doivent toujours être commandées directement à notre service de ventes et ne doivent pas figurer sur les bordereaux de commande de pièces de rechange.

Questo manuale, intitolato «HASSELBLAD ACCESSORIES», si presenta come un catalogo di pezzi di ricambio poichè la maggior parte degli accessori non richiede nè attrezzi nè istruzioni di riparazione speciali.

Il «Registro Rapido», costituito esclusivamente da fotografie, rende molto semplice la ricerca dell'articolo desiderato. Sul dorso di ogni scheda si trovano le corrispondenti fotografie con l'indicazione del relativo numero di pagina.

Ad ogni ordinazione di pezzi di ricambio, vogliate tener presente che è molto importante l'indicazione esatta del numero di catalogo del pezzo, cosa che facilita e rende più rapida l'evasione degli ordini.

Sulla speciale «PRICE-LIST FOR SPARE PARTS» che è stata distribuita, i pezzi che non sono in vendita sono contrassegnati con una «X». I gruppi parziali, che Voi trovate incorniciati da una linea tratteggiata, possono essere acquistati al completo indicando il numero corrispondente.

I pezzi contrassegnati con CODE NO. . . . devono sempre essere ordinati direttamente e con ordine separato al nostro reparto vendite.

Este manual con la designación HASSELBLAD ACCESSORIES es más bien un catálogo de piezas de recambio ya que la mayoría de los accesorios no necesitan herramientas especiales o instrucciones para su reparación.

El registro ilustrado, consta solamente de imágenes de nuestros accesorios, de modo que resulta fácil encontrar el artículo buscado. En el dorso de cada registro se encuentran las imágenes correspondientes con cifras de referencia para hallar el número de hoja respectivo.

Deseamos poner de relieve la importancia que tiene que Vds. nos den los números de pieza correctos al pedir piezas de recambio — ya que de esta manera nos facilitan en alto grado nuestra labor para satisfacer sus pedidos.

Las piezas que no vendemos están marcadas con una cruz — X — en la lista de precios especial PRICE-LIST FOR SPARE PARTS que les hemos enviado.

Los conjuntos parciales, los cuales están rodeados de un marco con trazos y puntos, pueden ser adquiridos montados indicando el número de pieza correspondiente al marco.

Las piezas que están marcadas con CODE NO deberán ser pedidas siempre directamente a nuestro departamento de ventas y no deberán ser mezcladas con los pedidos de piezas de recambio.

Denna handbok med beteckningen HASSELBLAD ACCESSORIES är mera utformad som en reservdelskatalog då de flesta tillbehören inte fordrar några speciella verktyg eller reparationsinstruktioner.

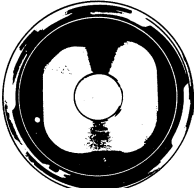
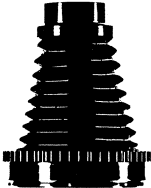
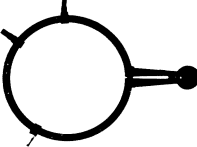
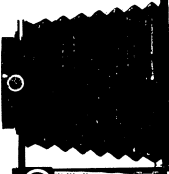
"Snabbregistret", som består enbart av bilder på våra tillbehör, gör att det är lätt att finna rätt artikel. På baksidan av varje register finns motsvarande bilder med sifferhänvisning till respektive bladnummer.

Vi måste betona att det är mycket viktigt att Ni anger korrekta detaljnummer vid reservdelsbeställningar — detta underlättar i väsentlig grad vår behandling av dessa order.

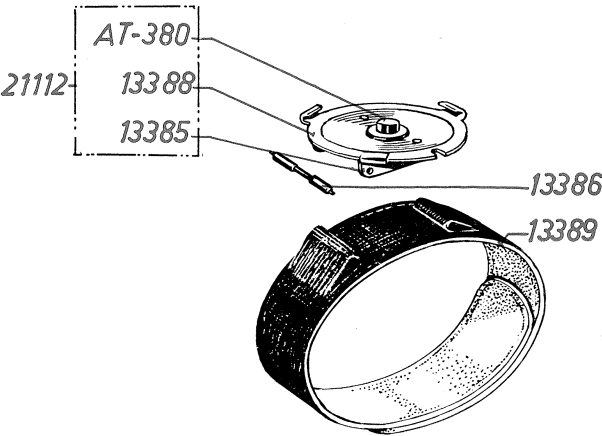
Detaljer som vi inte säljer är märkta med ett kryss — X — i den speciella PRICE-LIST FOR SPARE PARTS som tillställts Er.

Del-sammanställningar vilka omges av en punkt-streckad ram kan köpas i monterat skick med angivande av detaljnumret som hänvisar till ramen.

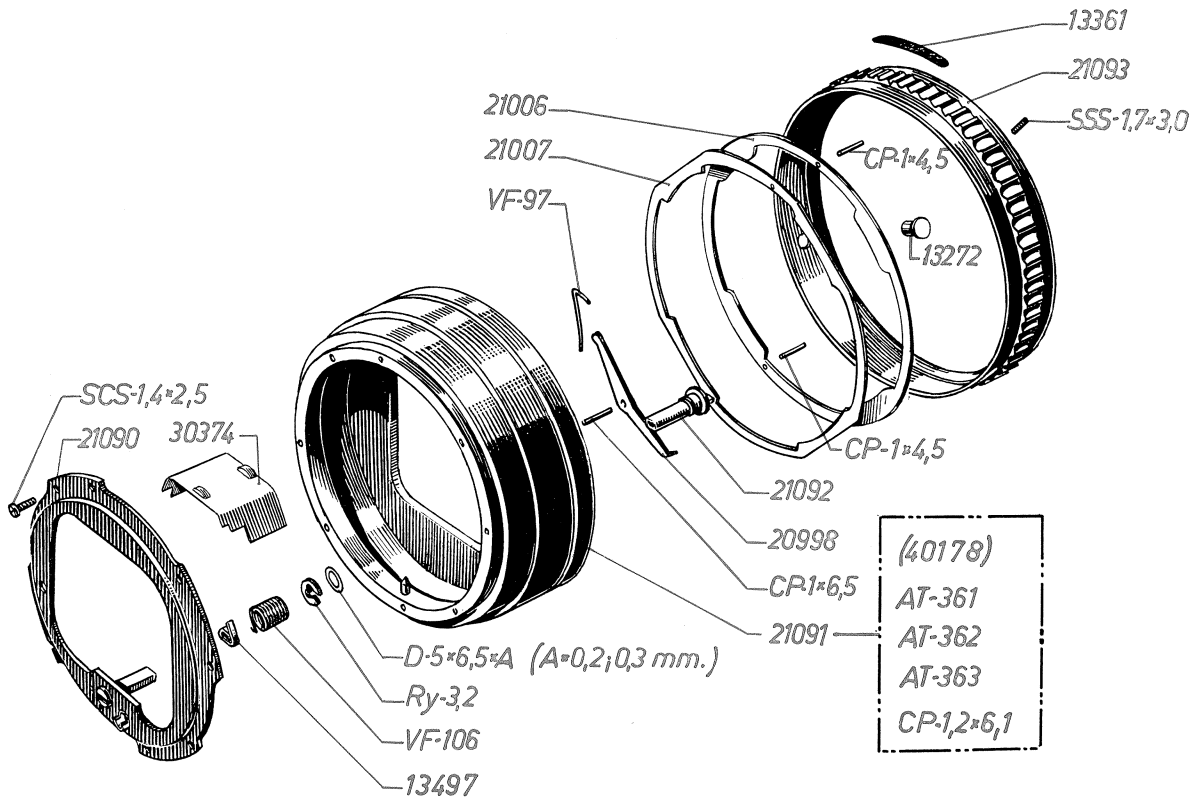
Detaljer som är märkta med CODE NO. . . . skall alltid beställas direkt från vår försäljningsavdelning och får inte blandas ihop med reservdelsbeställningar.

1		Wrist strap Armband Armband Bracelet Bracciale porta esposimetro Pulsera
2		Extension tubes 21/55 Mellanringar 21/55 Zwischenringe 21/55 Bagues-allonges 21/55 Anelli distanziatori 21/55 Anills intermedis 21/55
3		Lens mount adapter Objektivfattningsämne Objektivadapterring Ebauche de porte-objectif Anello adattatore per altri obiettivi Adaptador de objetivo
4		Microscope adapter Mikroskopadapter Mikroadapter Adaptateur pour microscope Adattatore per microscopio Adaptador para microscopio
5		Filter adapter ring, series 63 Filteradapterring, serie 63 Filteradapterring, serie 63 Bague porte-filtre, série 63 Anello adattatore per filtri serie 63 Anillo adaptador de filtros, serie 63
6		Quick-focusing handle Fokuseringshandtag Einstellgriff Poignée de réglage Manovella di regolazione rapida Asa de enfoque
7		Lens shades Motljusskydd Gegenlichtblenden Parasoleils Parasole Protección contra luz
8		Attachment for flash-holder Fäste för blixtlamphållare Halterung für Blitzlampen und -würfel Griffe pour lampes flash et flash-cubes Attacco per flash Fijación de portacubo de flash
9		Attachment for the Hasselblad exposure meter Fäste för Hasselblad exponeringsmätare Halterung für Hasselblad Belichtungsmesser Griffe pour posemètre Hasselblad Attacco per esposimetro Fijación para el exposímetro Hasselblad
10		Professional lens shade Professionellt motljusskydd Balgenblende Parasoleil à soufflet Paraluce professionale Hasselblad Protección contra luz profesional

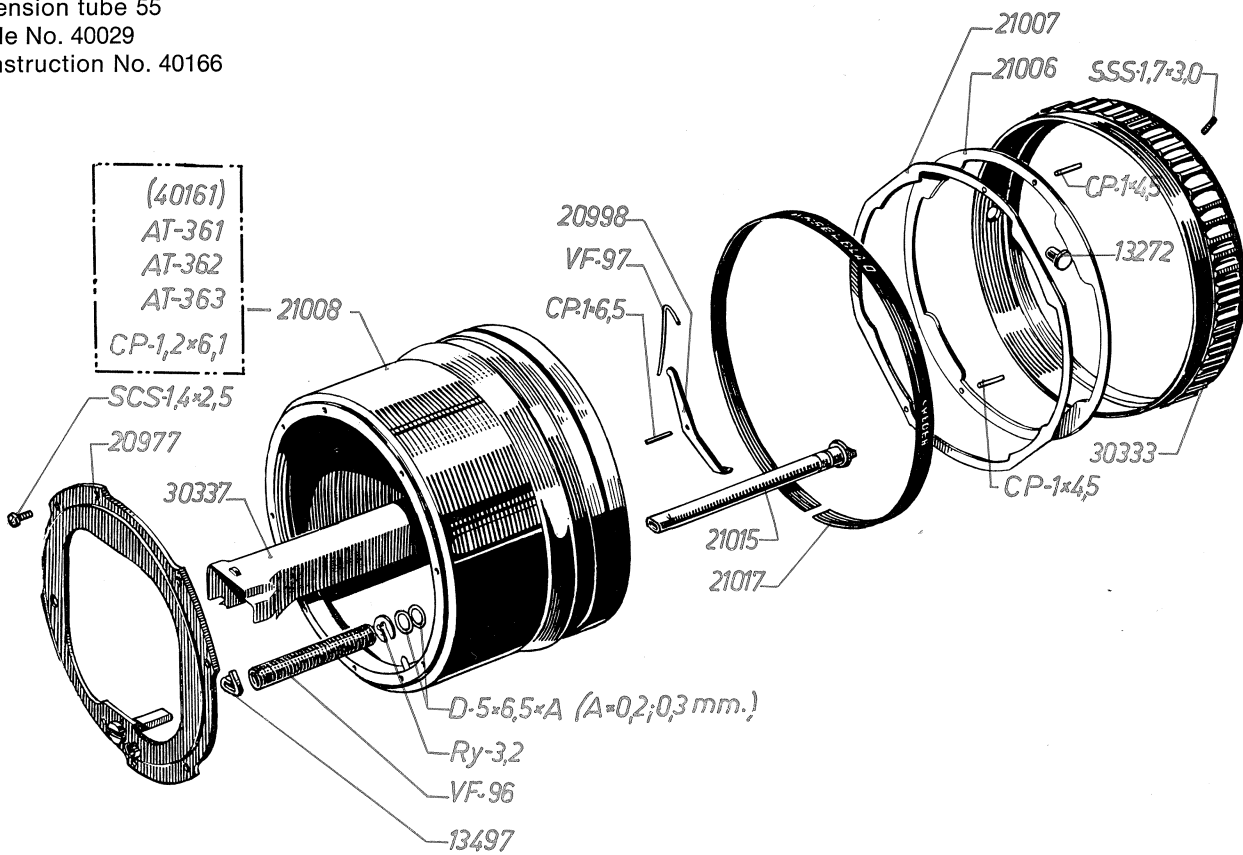
Wrist strap for exposure meter
Code No. TIMEC
Construction No. 13387



Extension tube 21
 Code No. 40010
 Construction No. 40179

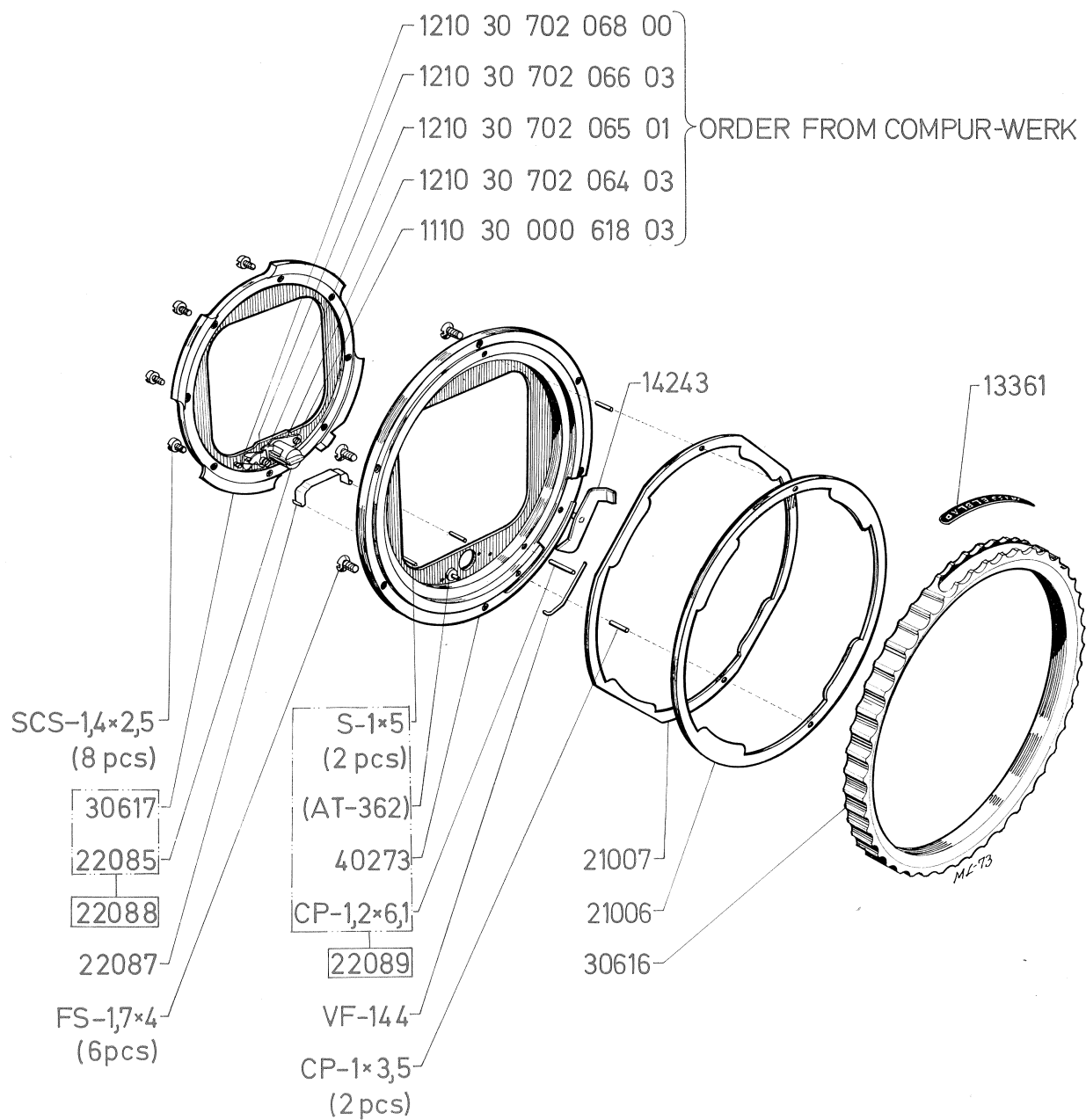


Extension tube 55
 Code No. 40029
 Construction No. 40166

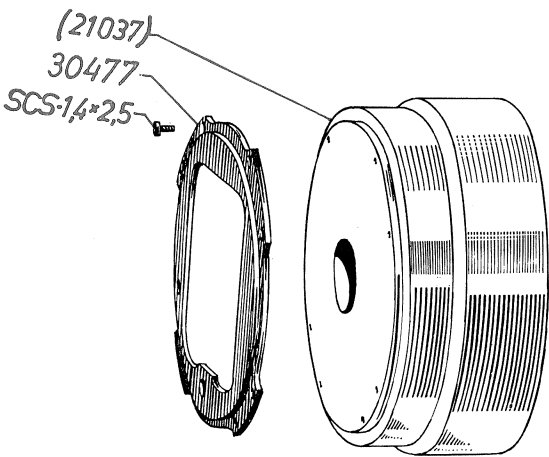


Extension tube 10
Code No 40363
Construction No 40274

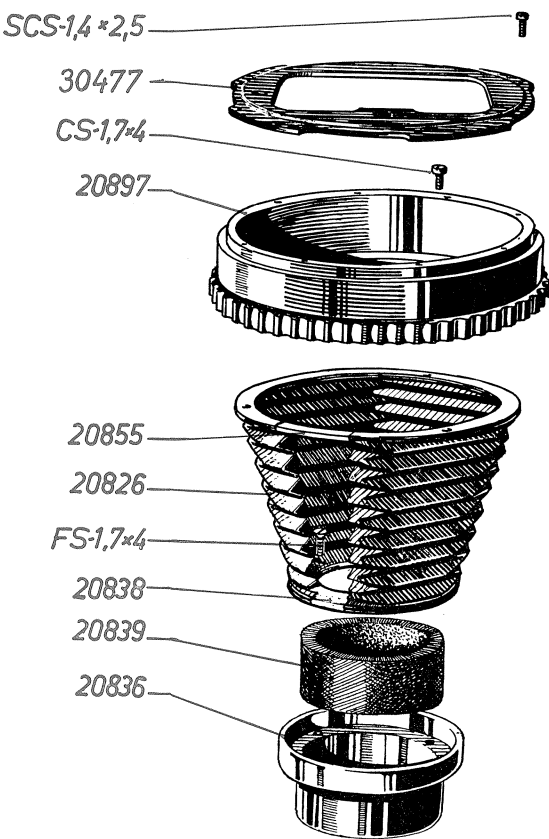
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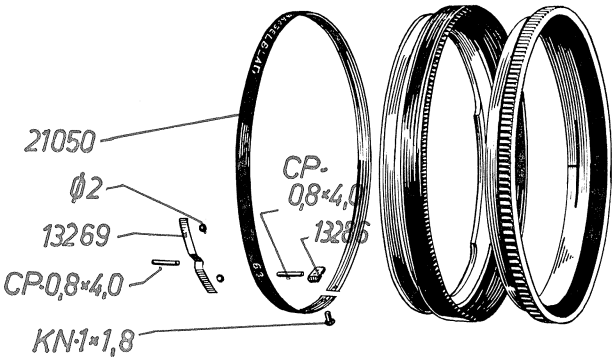
Lens mount adapter
Code No. 40037
Construction No. 21038



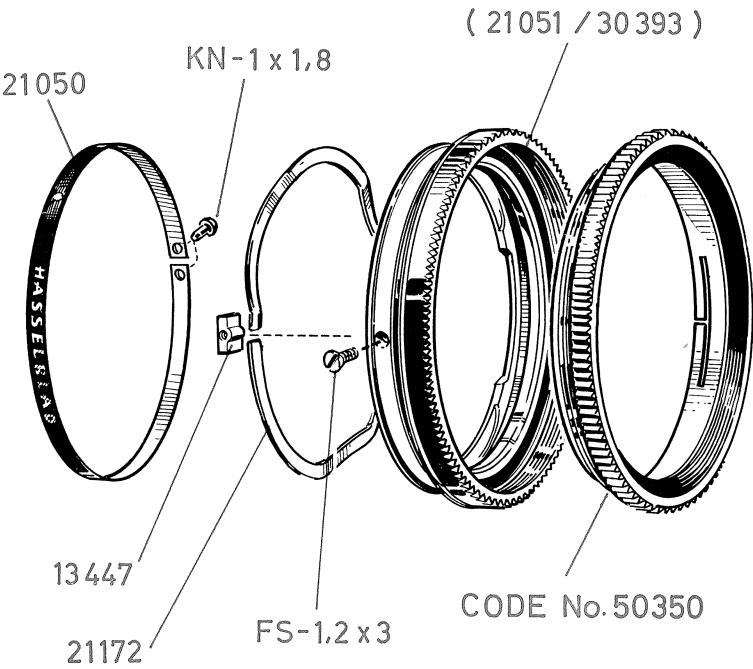
Microscope adapter
Code No. 40045
Construction No. 20899



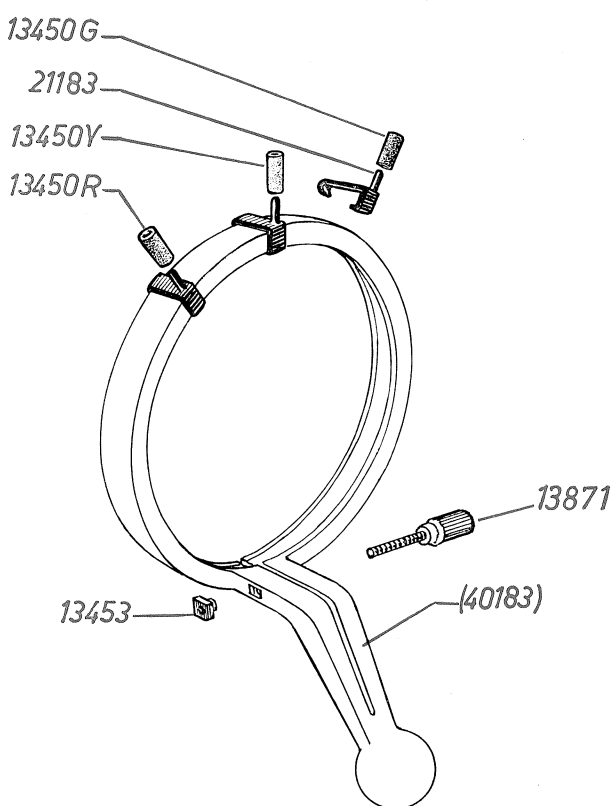
Filter adapter ring, Series 63, type 1
 Code No. 40053
 Construction No. 21054



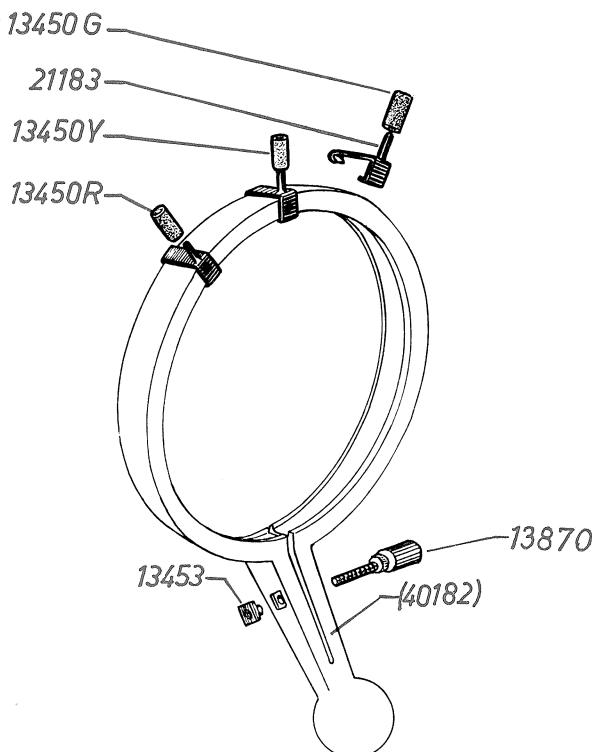
Filter adapter ring, Series 63, type 2
 Code No. 40053
 Construction No. 21372



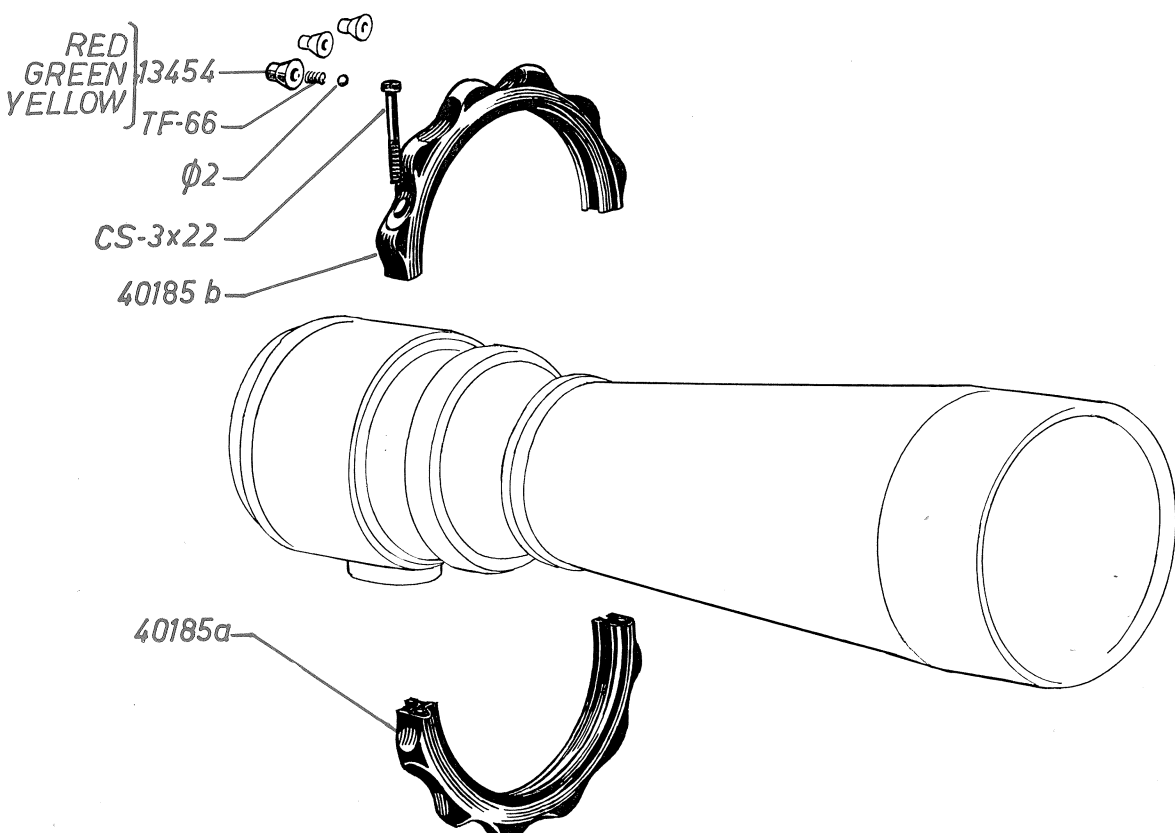
Quick-focusing handle 50-105, SWC
 Code No. 40061
 Construction No. 21188



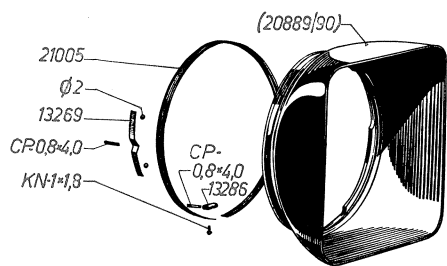
Quick-focusing handle 120-250
 Code No. 40088
 Construction No. 21187



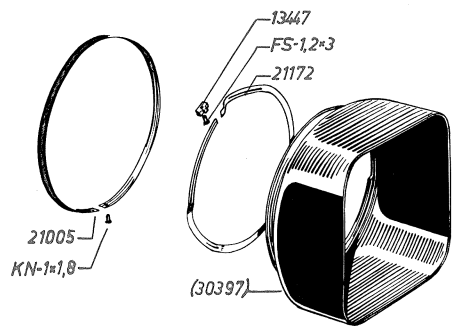
Focusing ring 500
 Code No. 40150
 Construction No. 21202



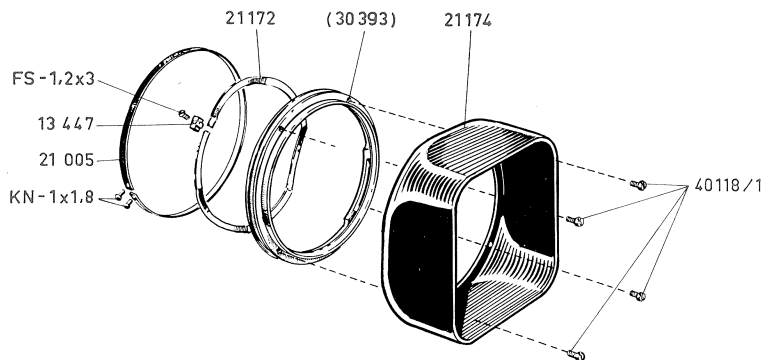
Lens shade 80, type 1
 Code No. SESOC
 Construction No. 20888



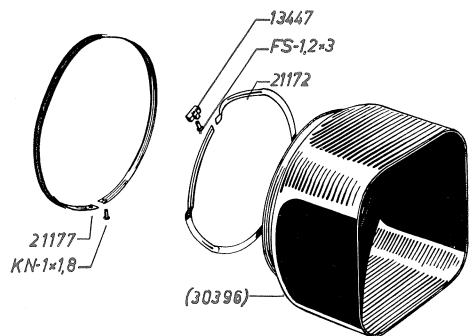
Lens shade 80, type 2
 Code No. 40118
 Construction No. 21173



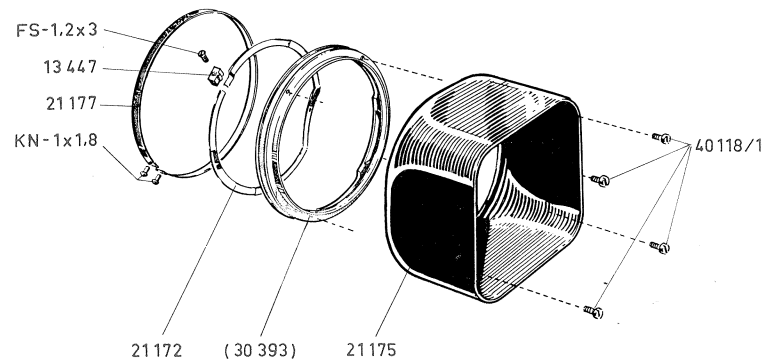
Lens shade 80, type 3
 Code No. 40118
 Construction No. 21173



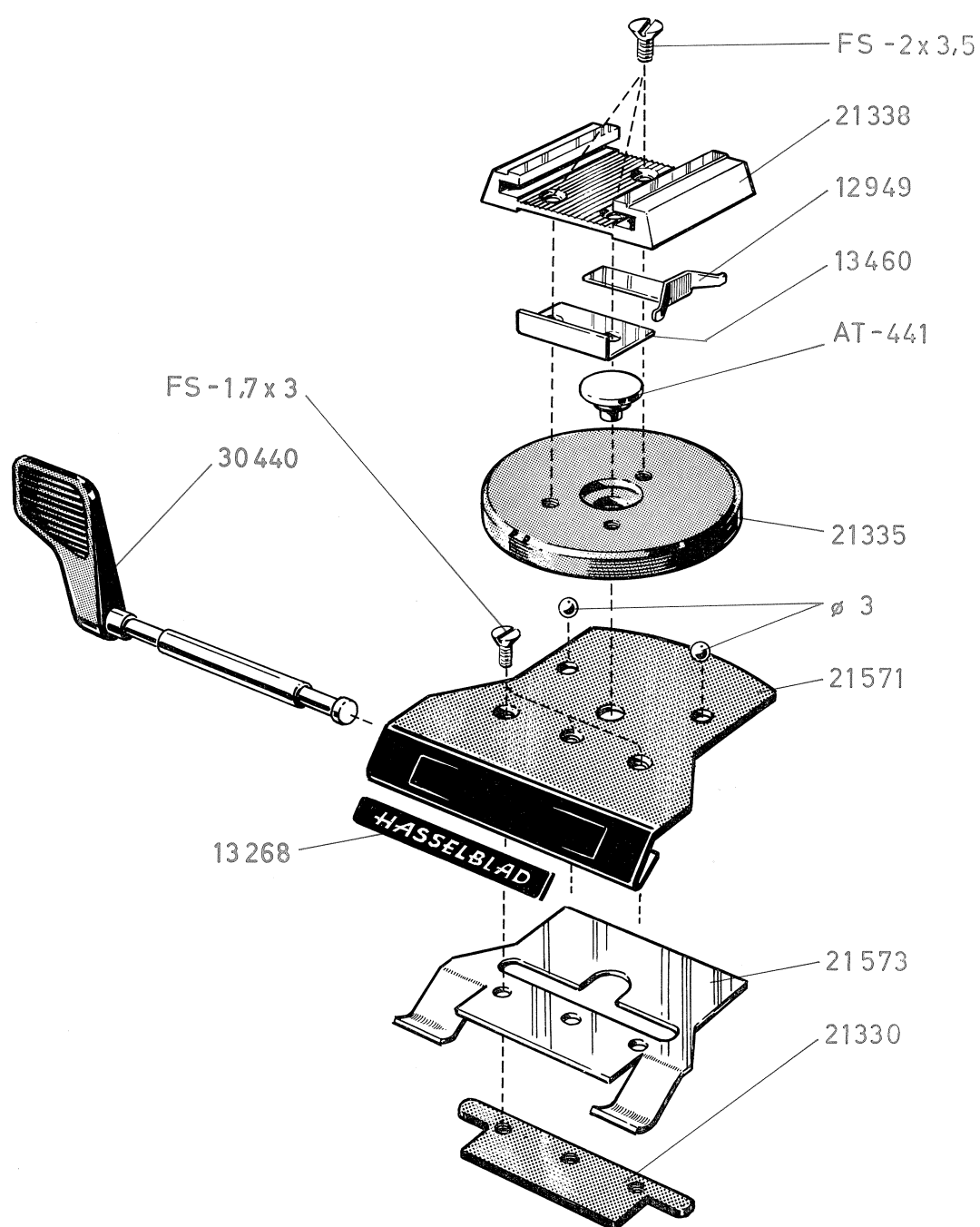
Lens shade 100-250, type 2
 Code No. 40126
 Construction No. 21176



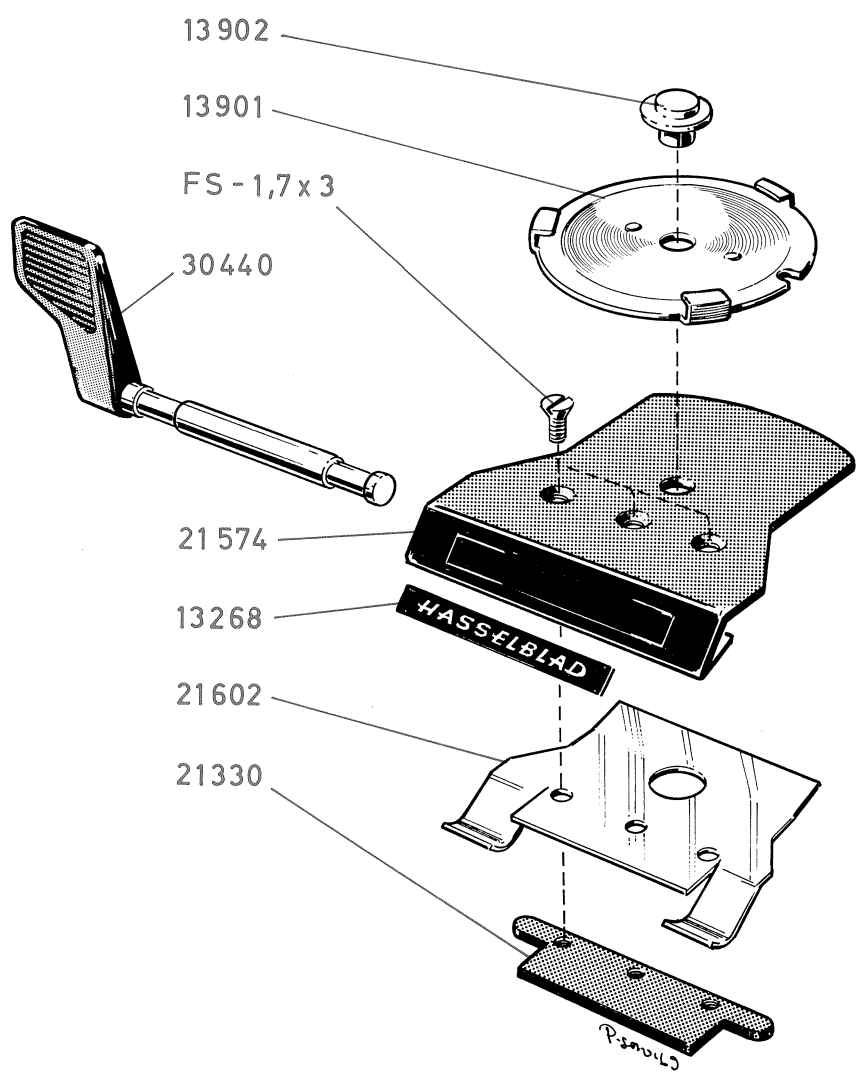
Lens shade 100-250, type 3
 Code No. 40126
 Construction No. 21176



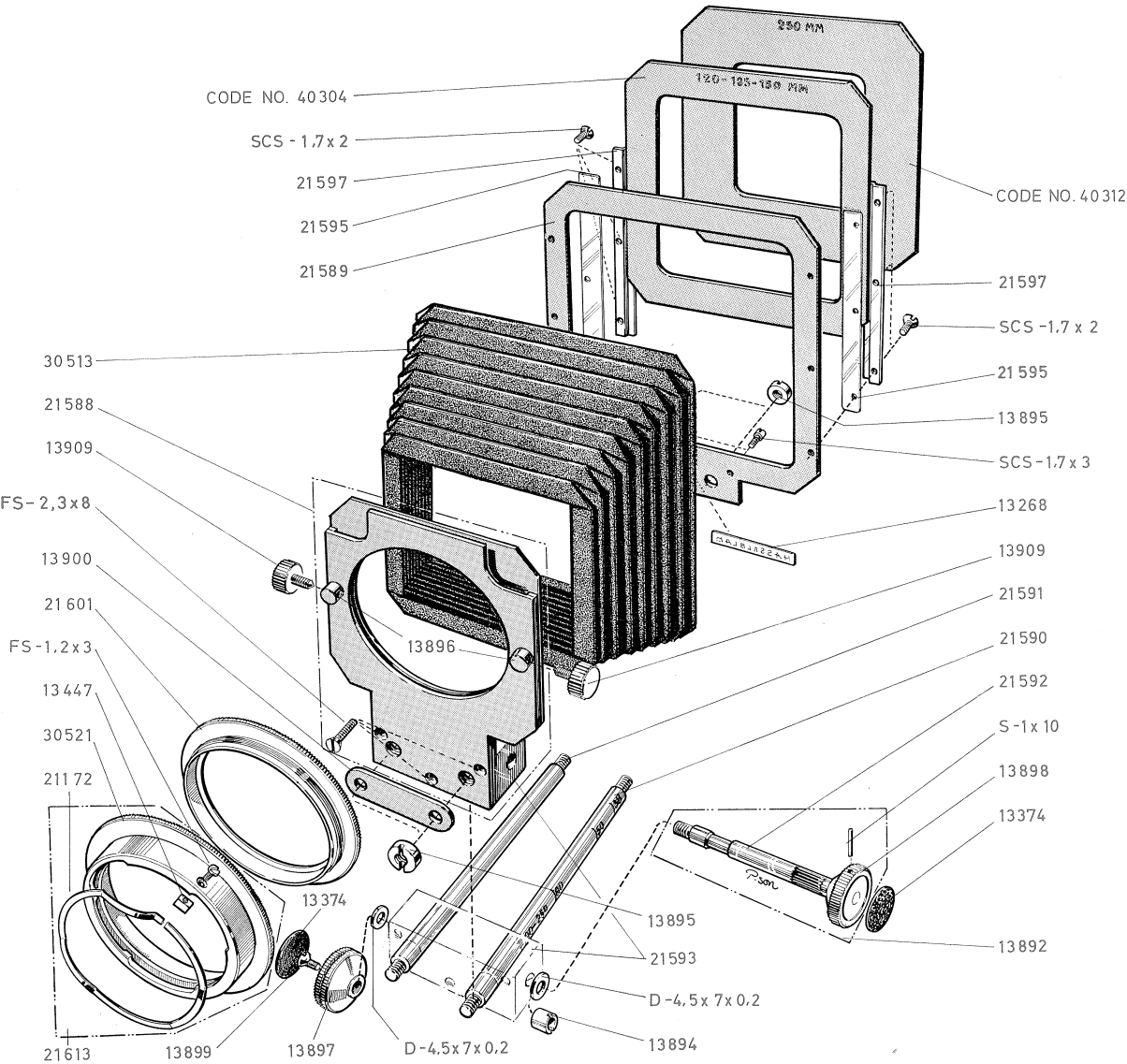
Attachment for flash-holder
 Code No. 40258
 Construction No. 21575

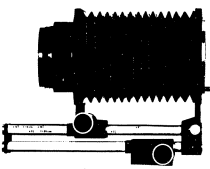
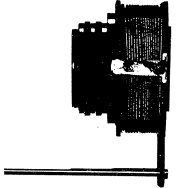
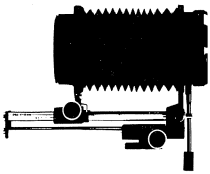
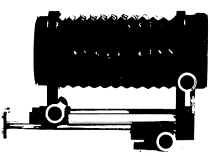
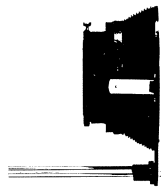
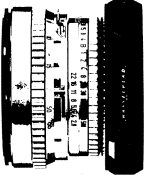
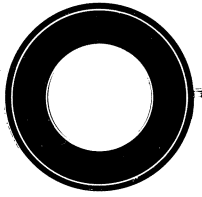
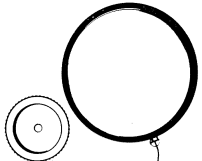


Attachment for the Hasselblad exposure meter
Code No. 40266
Construction No. 21603

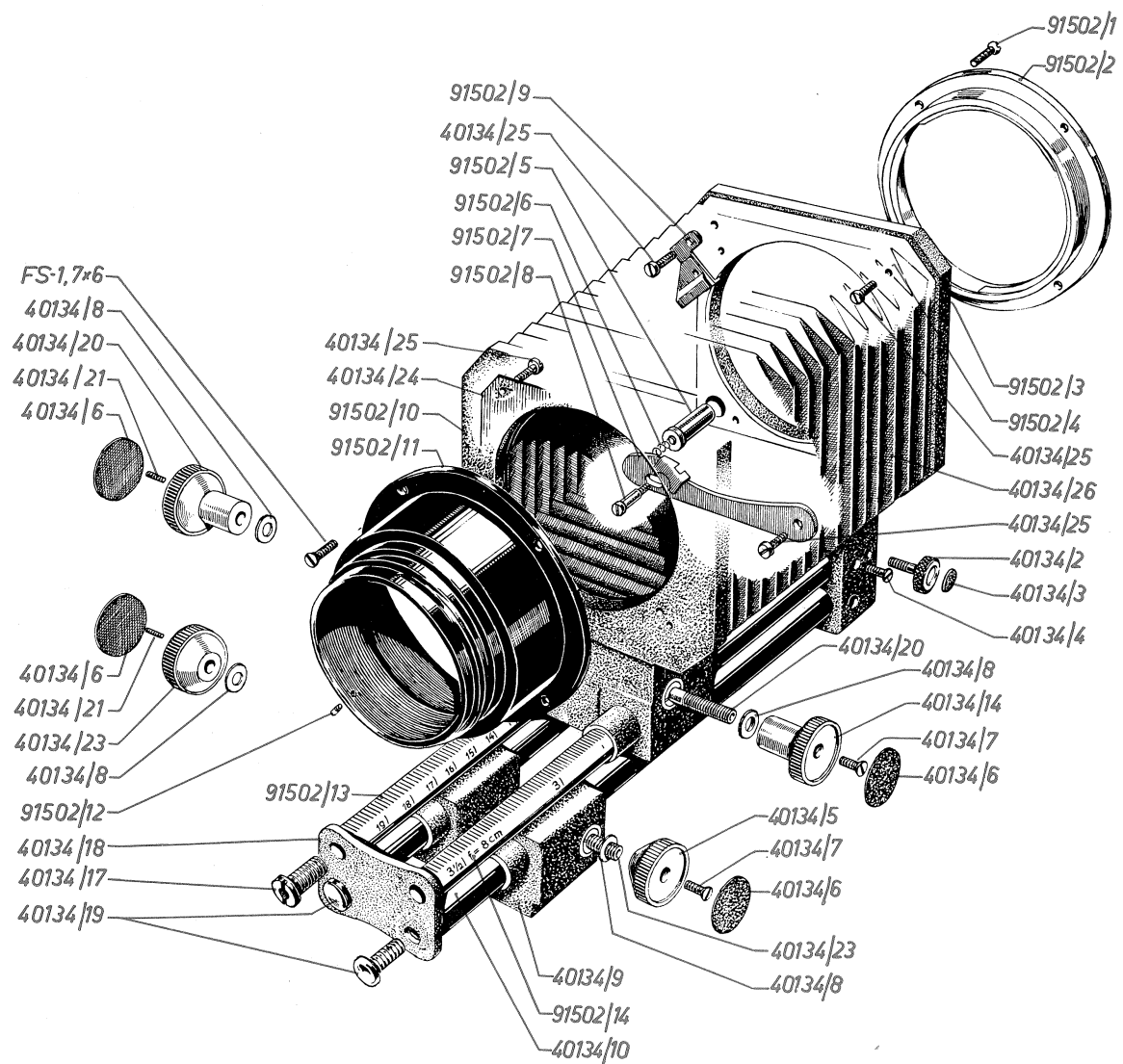


Professional lens shade
 Code No. 40231
 Construction No. 30514

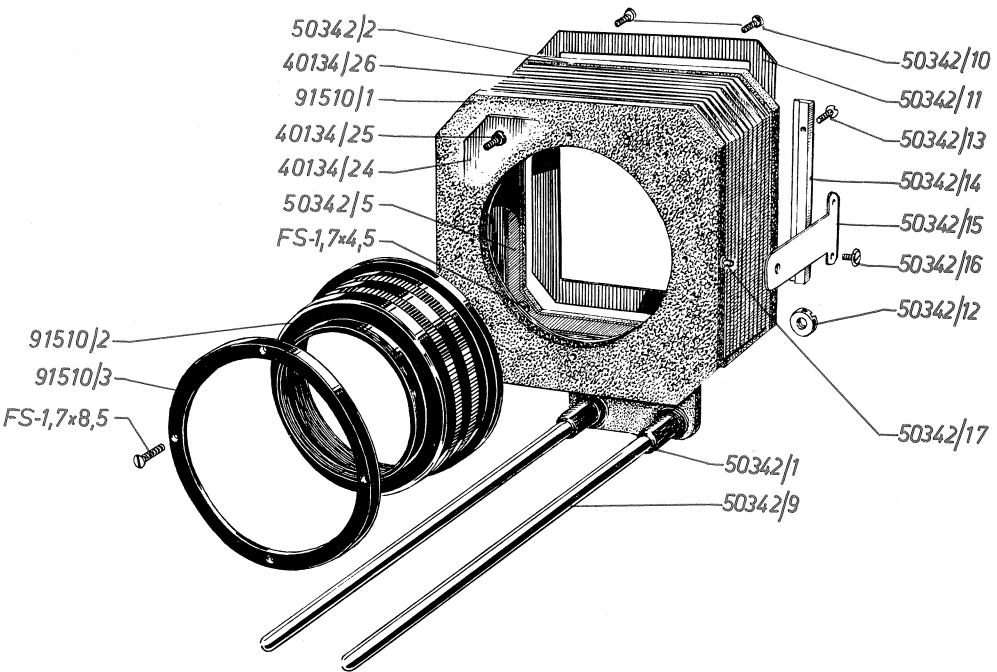


11		Bellows Extension 1600F, 1000F Bälgtillsats 1600F, 1000F Balgengerät 1600F, 1000F Soufflet de rallonge 1600F, 1000F Soffietto estensore 1600F, 1000F Adaptador de fuelle 1600F, 1000F
12		Lens shade for Bellows Extension 1600F, 1000F Motljusskydd för bälgtillsats 1600F, 1000F Kompendium für Balgengerät 1600F, 1000F Parasoleil soufflet de rallonge 1600F, 1000F Paraluce soffietto estensore 1600F, 1000F Protección contra luz para fuelle 1600F, 1000F
13		Bellows Extension 500C, type 1 Bälgtillsats 500C Balgengerät 500C Soufflet de rallonge 500C Soffietto estensore 500C Fuelle 500C
14		Lens shade for Bellows Extension 500C, type 1 Motljusskydd för bälgtillsats 500C Kompendium für Balgengerät 500C Parasoleil, soufflet de rallonge 500C Paraluce, soffietto estensore 500C Protección contra luz para fuelle 500C
15		Bellows Extension 500C, type 2 Bälgtillsats för 500C, nuvarande typ. Balgengerät für 500C, letztes Modell Soufflet de rallonge 500C, actuellement en usage Soffietto estensore 500C, modello attuale Fuelle 500C, el tipo presente
16		Lens shade for Bellows Extension 500C, type 2 Motljusskydd för bälgtillsats 500C, nuvarande typ. Kompendium für Balgengerät 500C, letztes Modell Parasoleil soufflet de rallonge 500C, actuellement en usage Paraluce, soffietto estensore 500C, modello attuale Protección contra luz para fuelle 500C, el typo presente
17		Transparency copy-holder Reproadapter Reproadapter Adaptateur pour reproduction Teleaio per riproduzione in trasparenza Adaptador para reproducciones
18		Microscope shutter Mikroskopslutare Mikroskop-Verschluss Obturateur pour microscope Otturatore per microscopio Obturador para microscopio
19		Lens Flange Objektivhållare Objektivhalter Porte-objectif Supporto per obiettivo Soporte de objetivo
20		Linear mirror unit Riktanordning Ausrichtgerät Dispositif de visée Dispositivo di allineamento Dispositivo de alineamiento

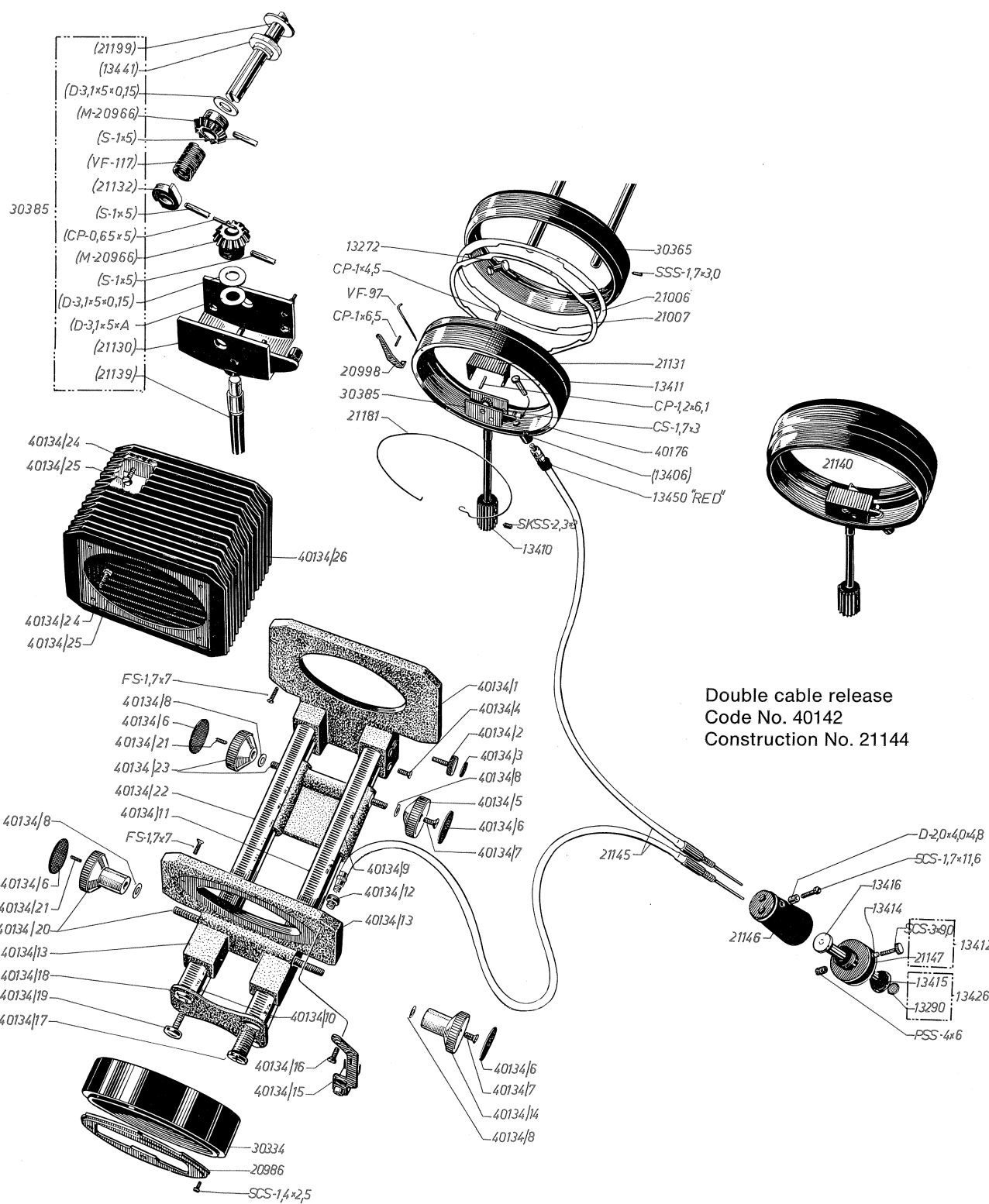
Bellows Extension for 1600F, 1000F
 Code No. 91502
 Construction No. 30285



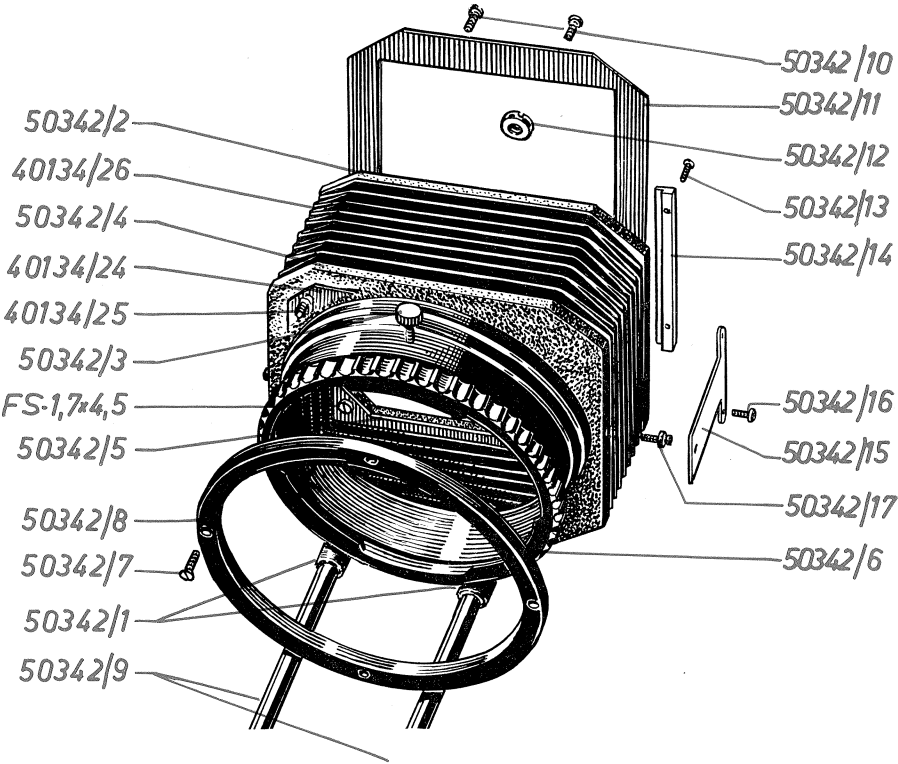
Lens shade for Bellows Extension 1600F, 1000F
Code No. 91510
Construction No. 30285



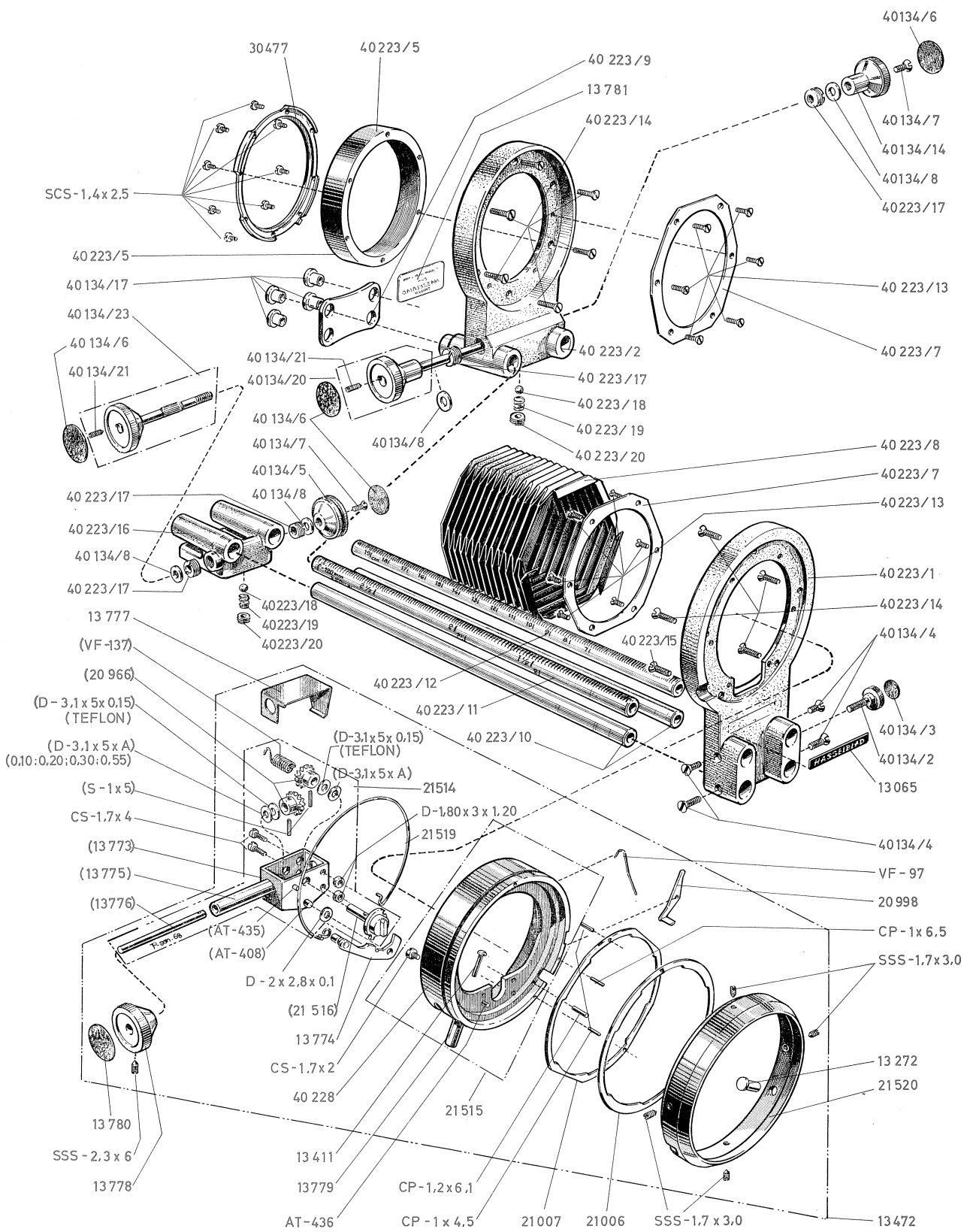
Bellows Extension for 500C, type 1
 Code No. 40134
 Construction No. 40167



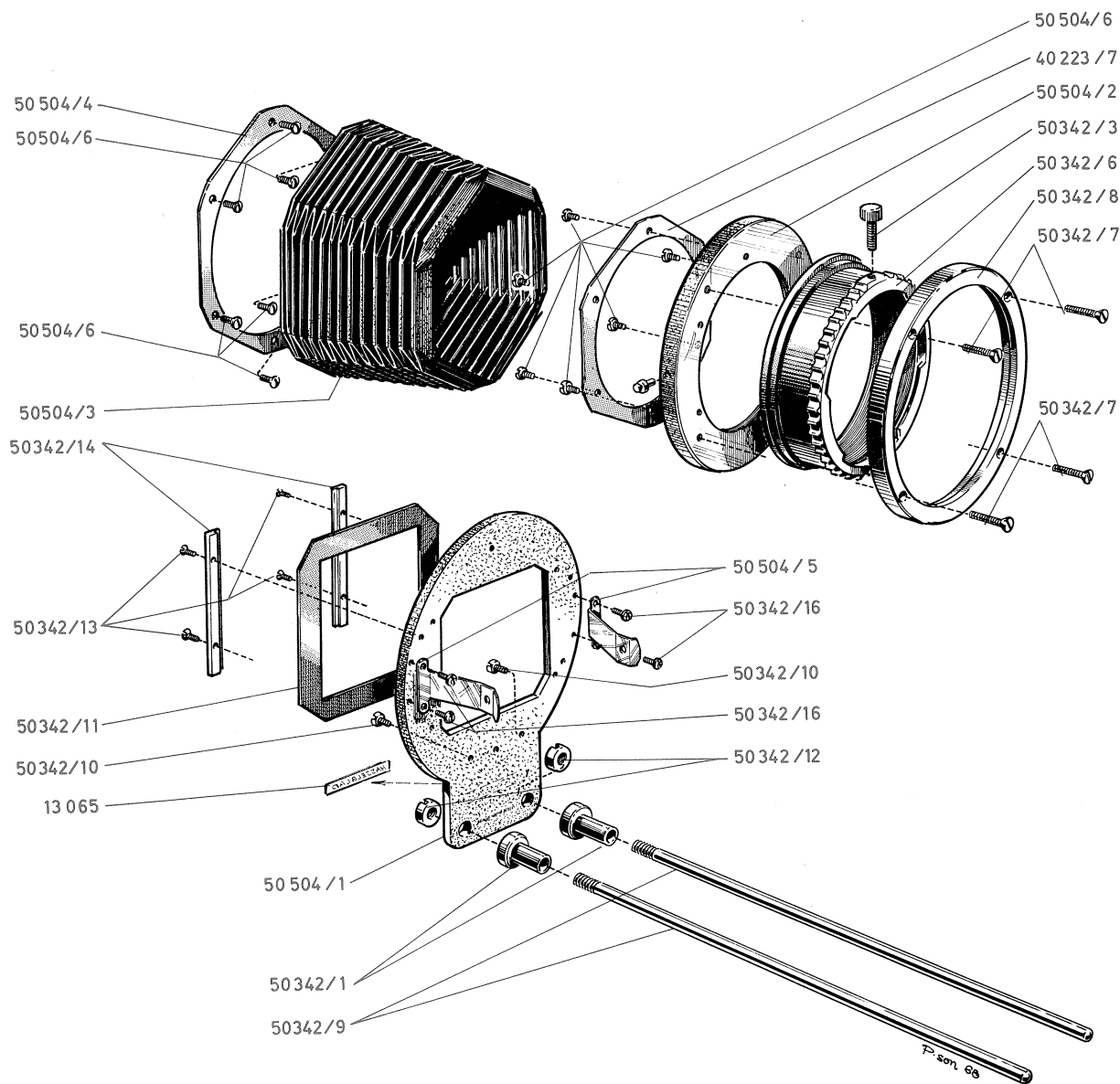
Lens shade for Bellows Extension 500C, type 1
Code No. 50342
Construction No. 40167



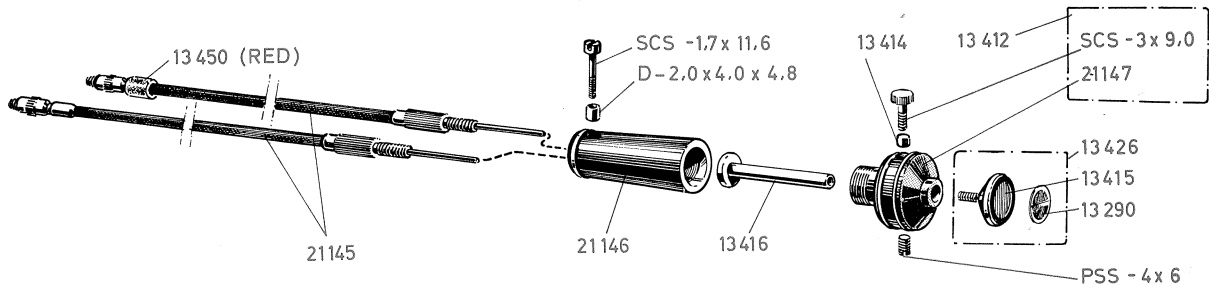
Bellows Extension 500C, type 2
Code No. 40223
Construction No. 40224



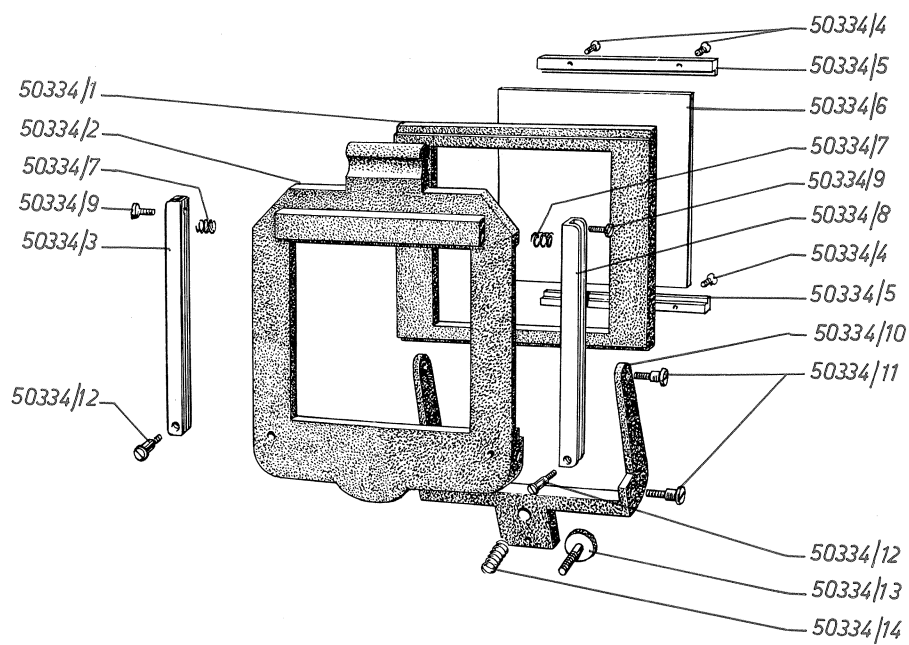
Lens shade for Bellows Extension 500C, type 2
 Code No. 50504
 Construction No. 30474



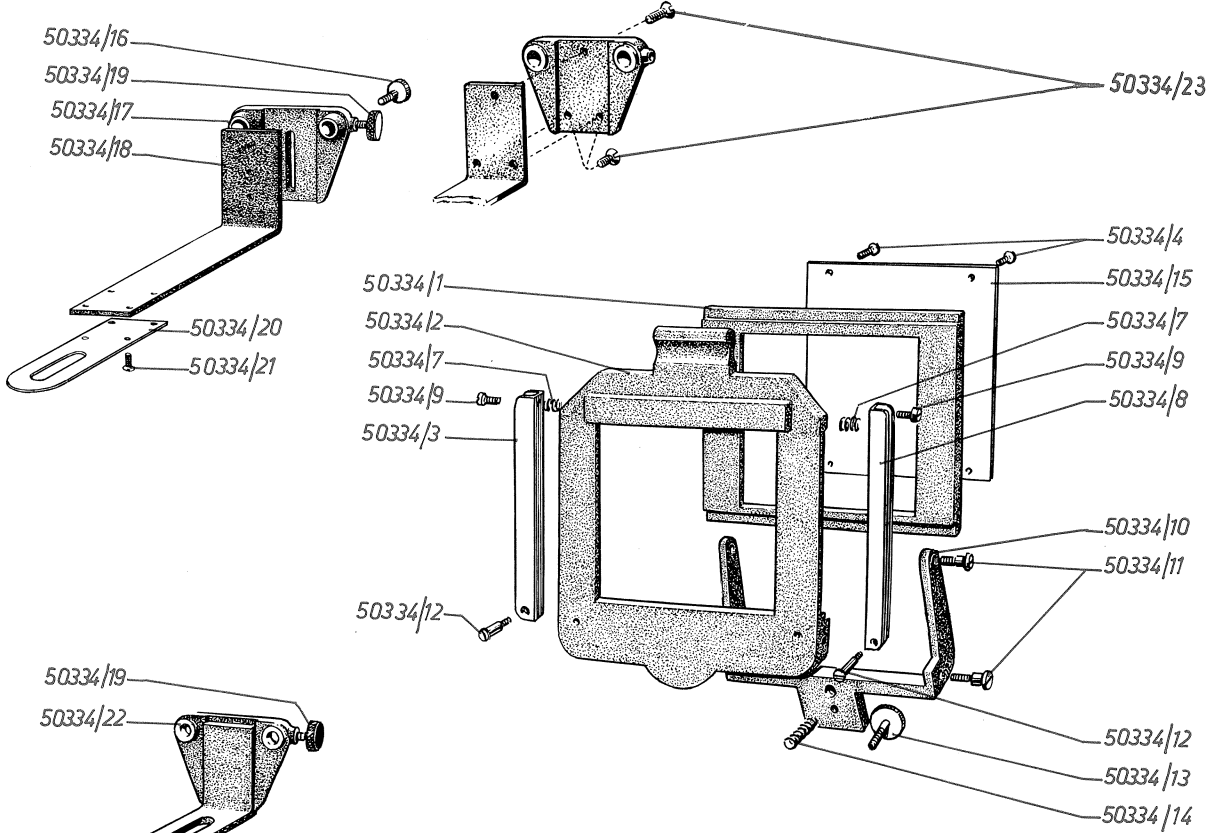
Double cable release
 Code No. 40142
 Construction No. 21144



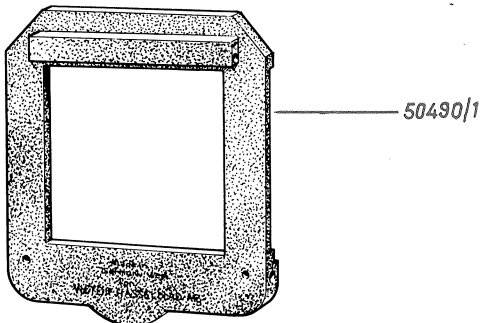
Transparency copy-holder, type 1
 Code No. 50334
 Construction No. 30390



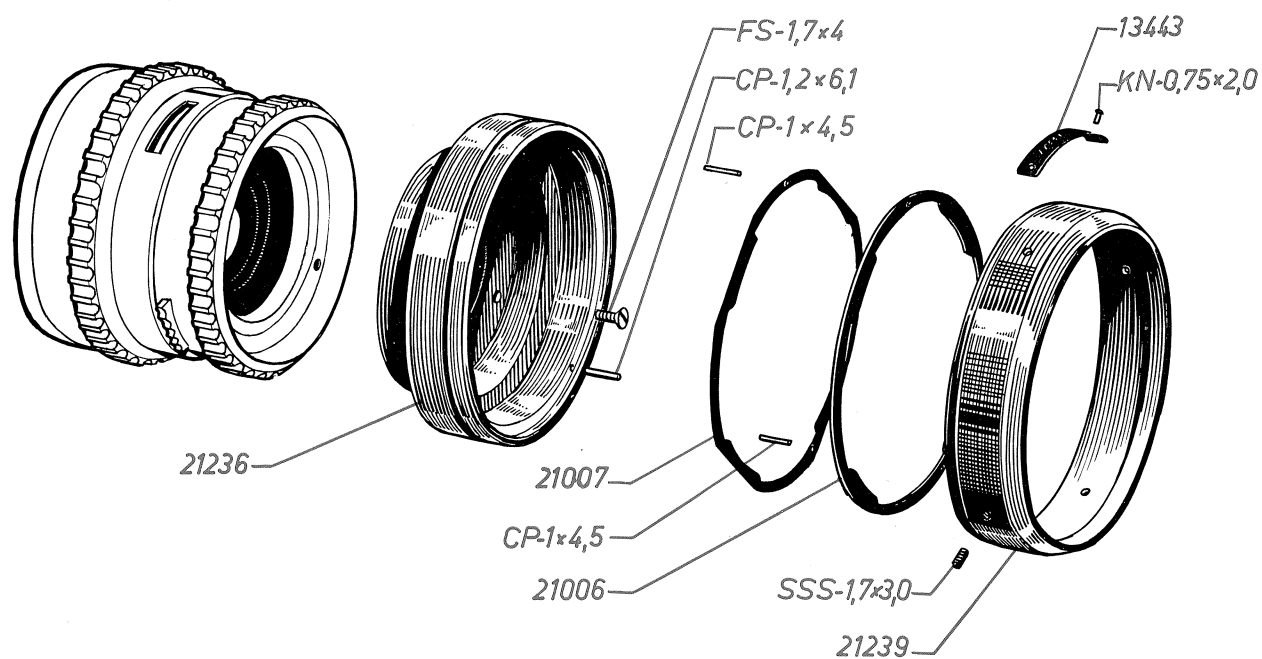
Transparency copy-holder, type 2
 Code No. 50490
 Construction No.



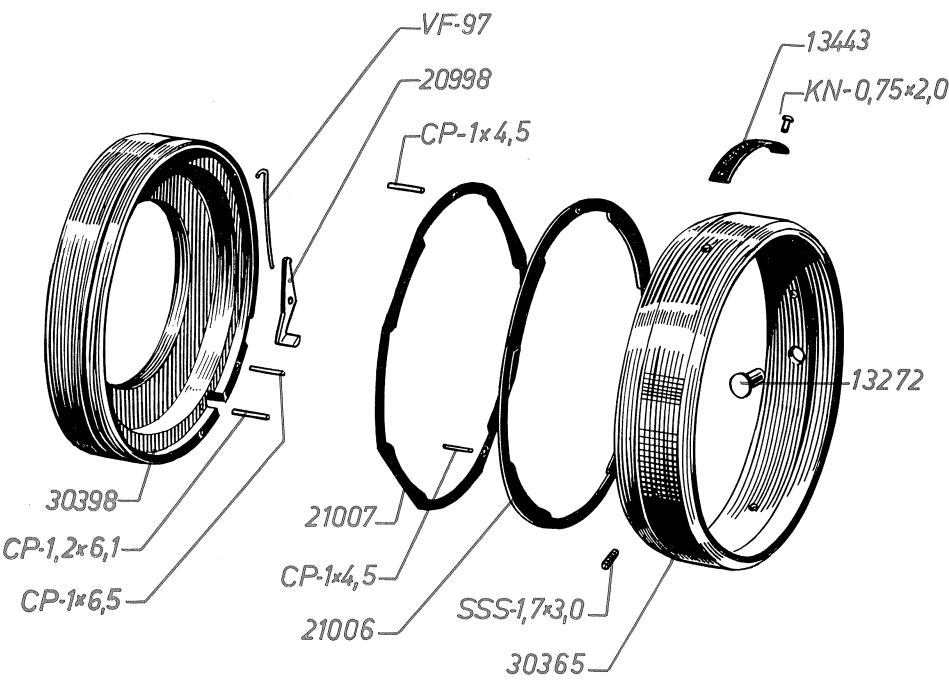
Modification



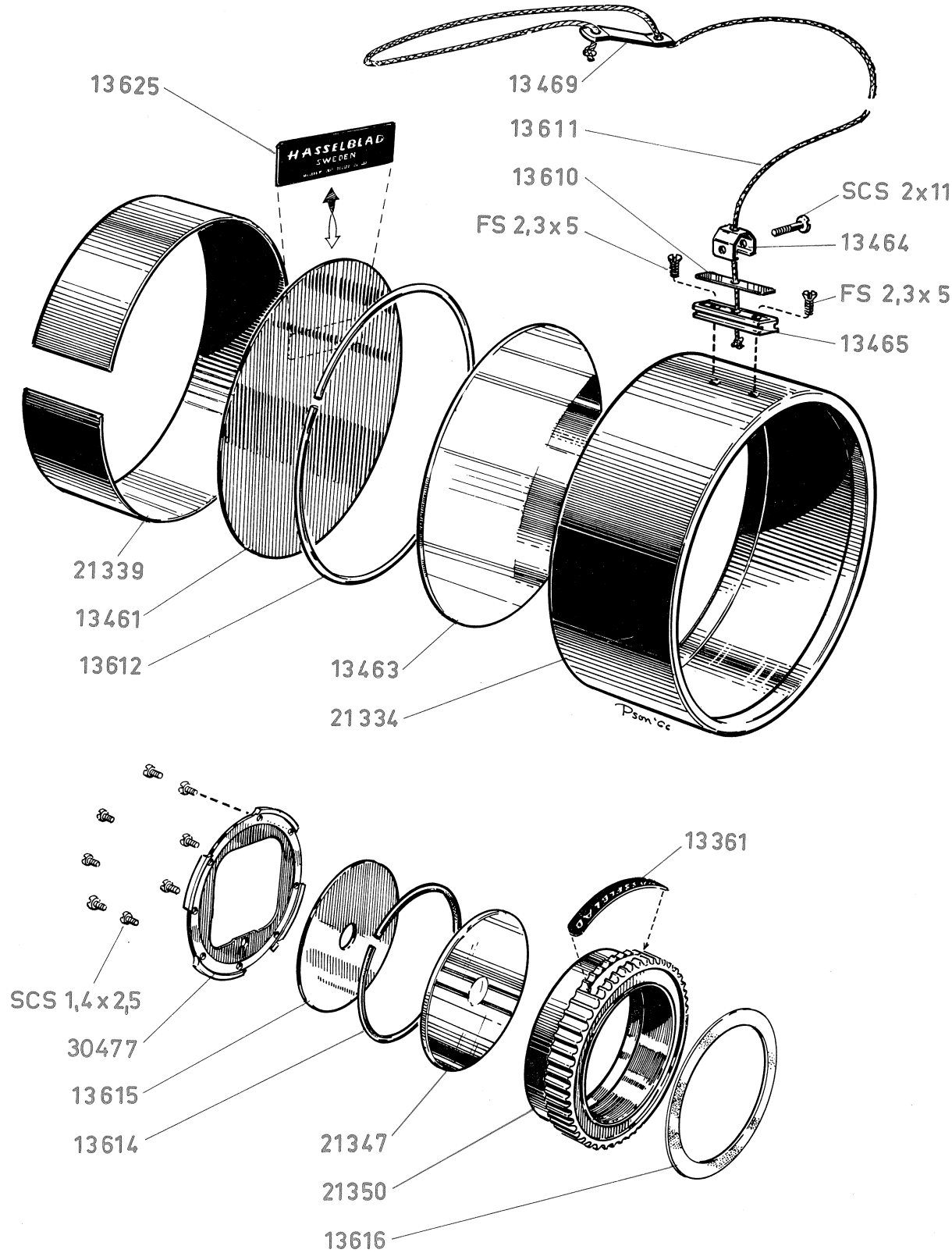
Microscope shutter
Code No. 40169
Construction No. 21237

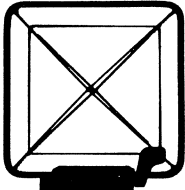
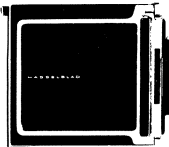
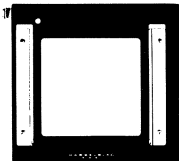
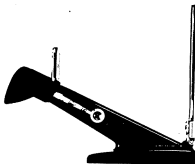
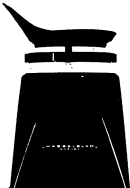
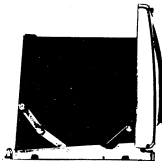


Lens Flange
Code No. 40177
Construction No. 21200

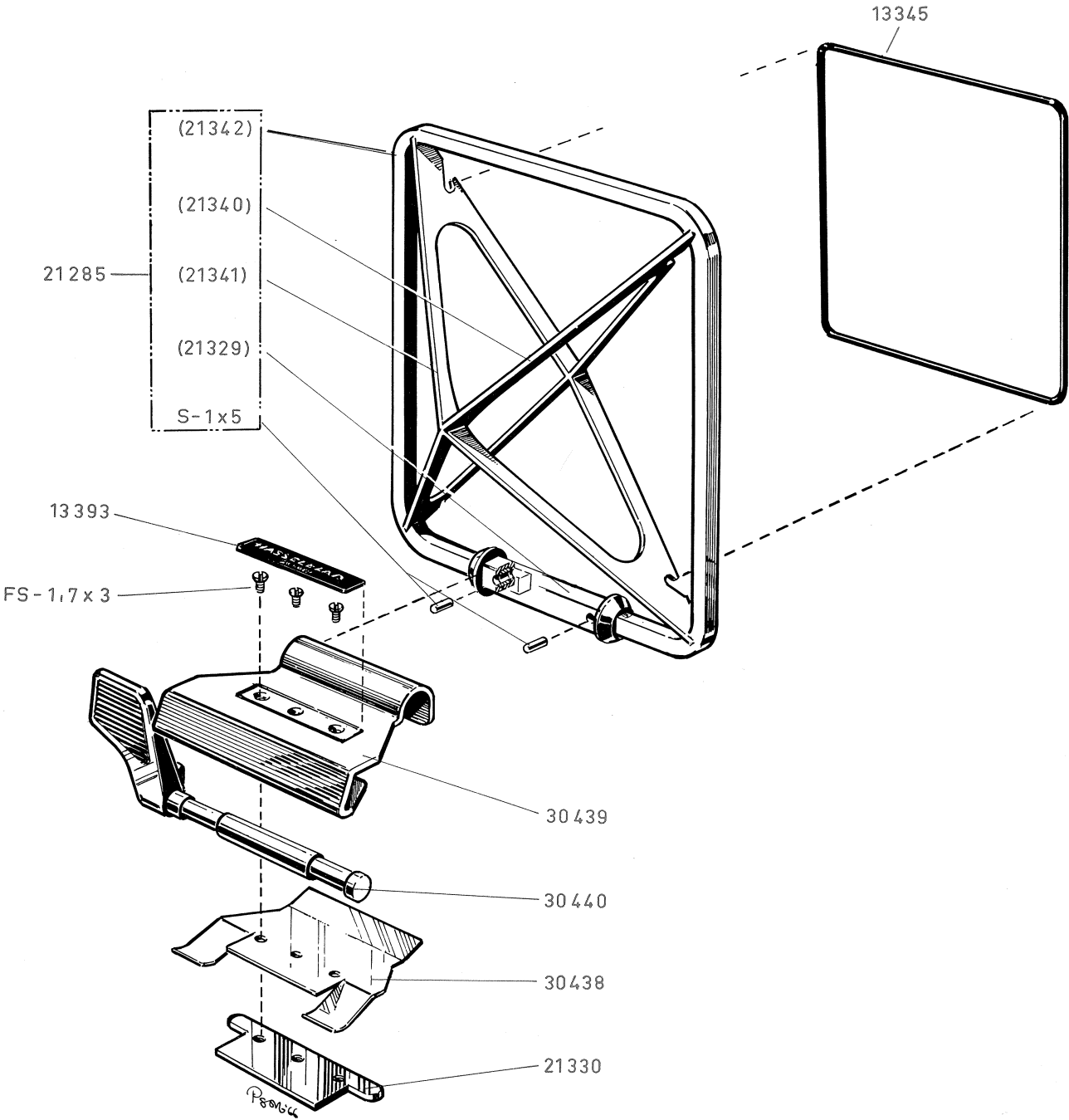


Linear mirror unit
 Code No. 40185
 Construction No. 30444, 21351

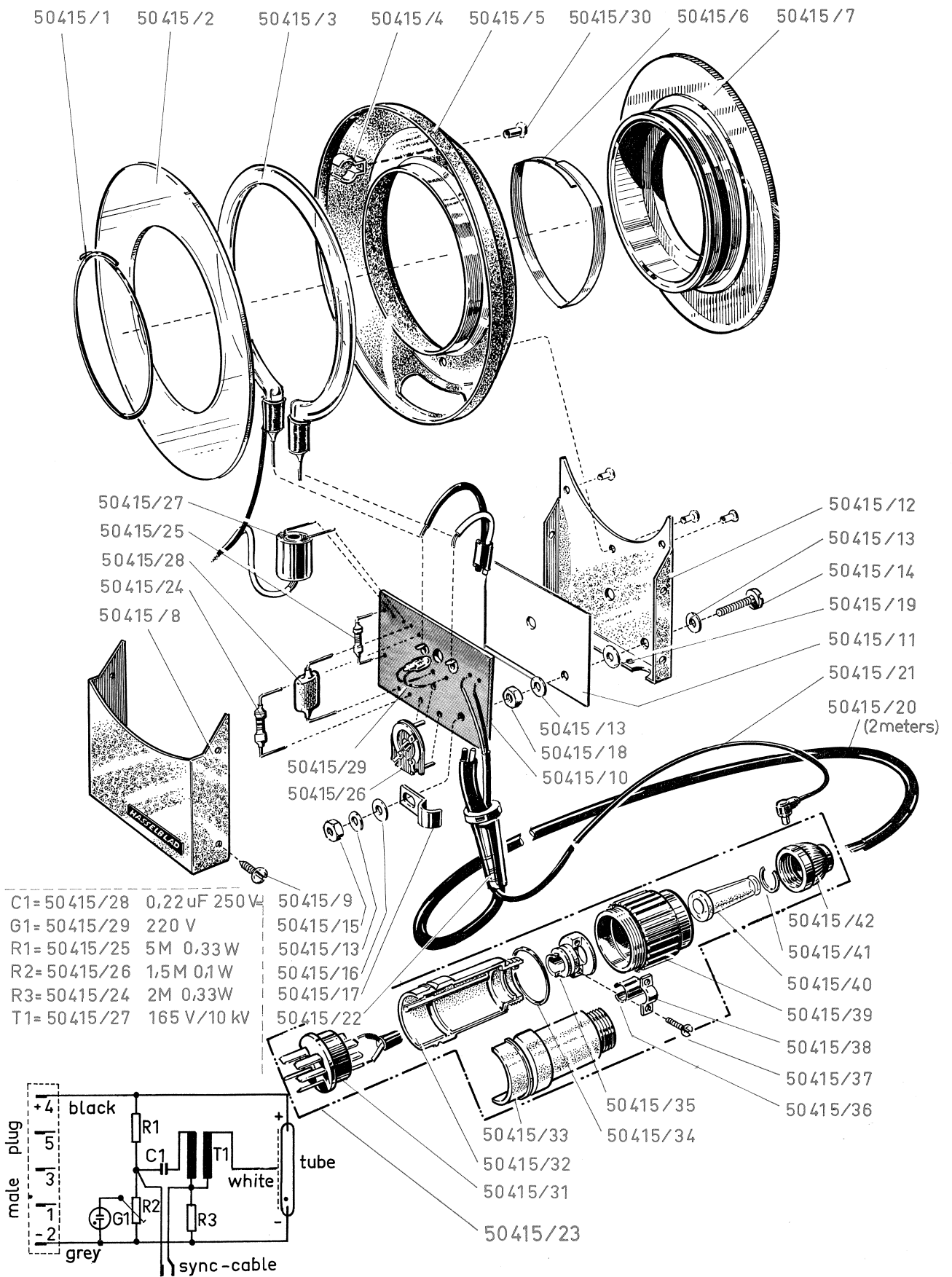


21		Frame viewfinder 150/250 Ramsökare 150/250 Rahmensucher 150/250 Viseur collimaté 150/250 Mirino a crociera 150/250 Visor de marco 150/250
22		Ringlight Ringblix Ringblitz Flash annulaire Flash anulare Flash anular
23		Cables for ringlight Kablar för ringblix Kabel für Ringblitz Câbles de flash annulaire Cavi per flash anulare Cables de flash anular
24		Intermediate connector Reduceringskontakt Reduzierkontakt Fiche réductrice pour torche Dimezzatore di potenza Reductor de potencia
25		Cut film adapter and cut film holder Bladfilmsadapter Planfilmadapter Adaptateur pour plans-films Dorso intercambiabile Adaptador de película plana
26		Film cutter Filmsax Filmschneider Coupe-film Forbice per pellicola Cizalla para película
27		Ground glass adapter Mattskiveadapter Mattscheibenadapter Adaptateur à verre dépoli Telaio porta vetro smerigliato Adaptador de cristal esmerilado
28		Prism sports viewfinder Prismasportsökare Prismensportsucher Viseur sport à prisme Mirino sportivo prismatico Visor deportivo de prisma
29		Magnifying hood Inställningshuv Starrer Lichtschacht Capuchon de visée rigide à loupe Cappuccio per messa a fuoco con lente d'ingrandimento Cabeza de enfoque
30		Standard focusing hood, type 1 Standardljusschakt Normaler Lichtschacht Capuchon de visée standard Cappuccio standard messa fuoco Capuchón de visor standard

Frame viewfinder 150/250
Code No. 40215
Construction No. 21286



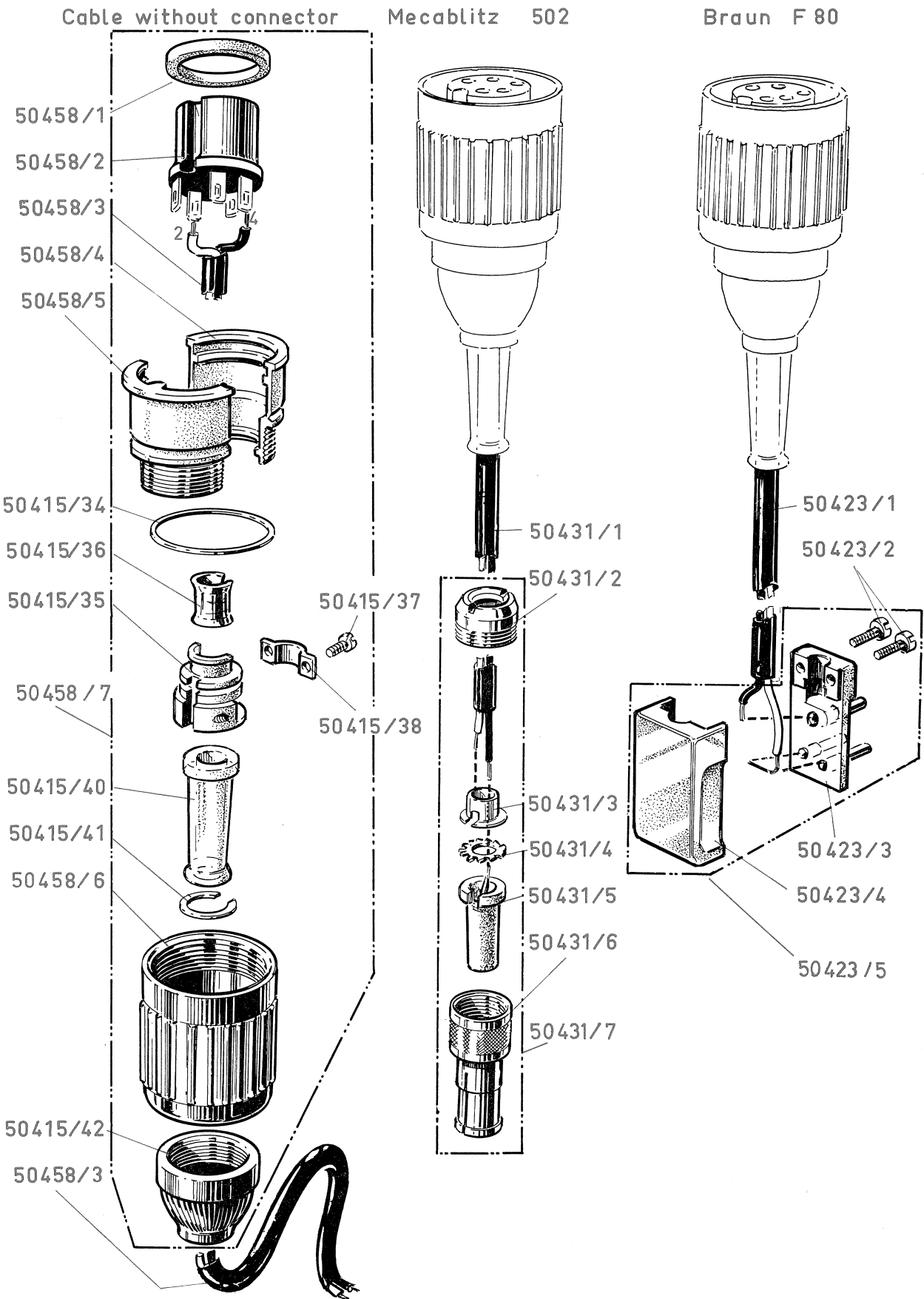
Ringlight
 Code No. 50415
 Construction No. 40234



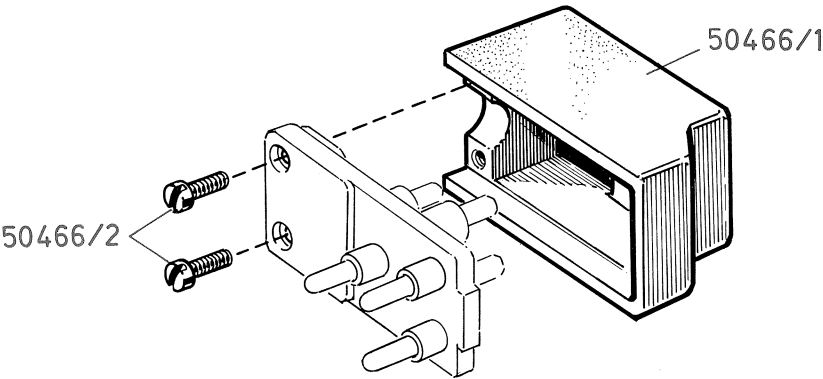
Neutral connecting cable
Code No. 50458

Connecting cable for
Mecablitz 502
Code No. 50431

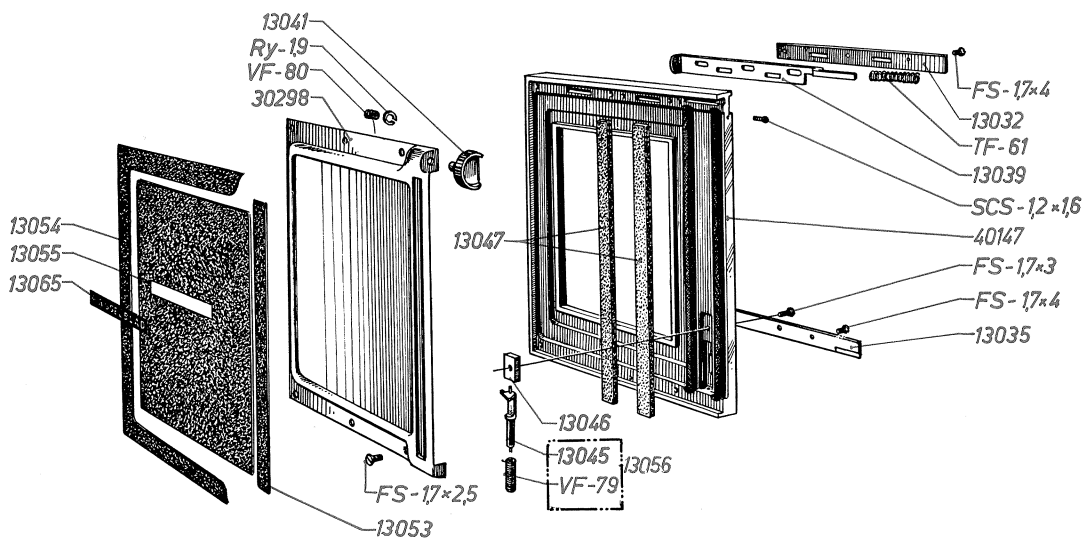
Connecting cable for
Braun F80/800
Code No. 50423



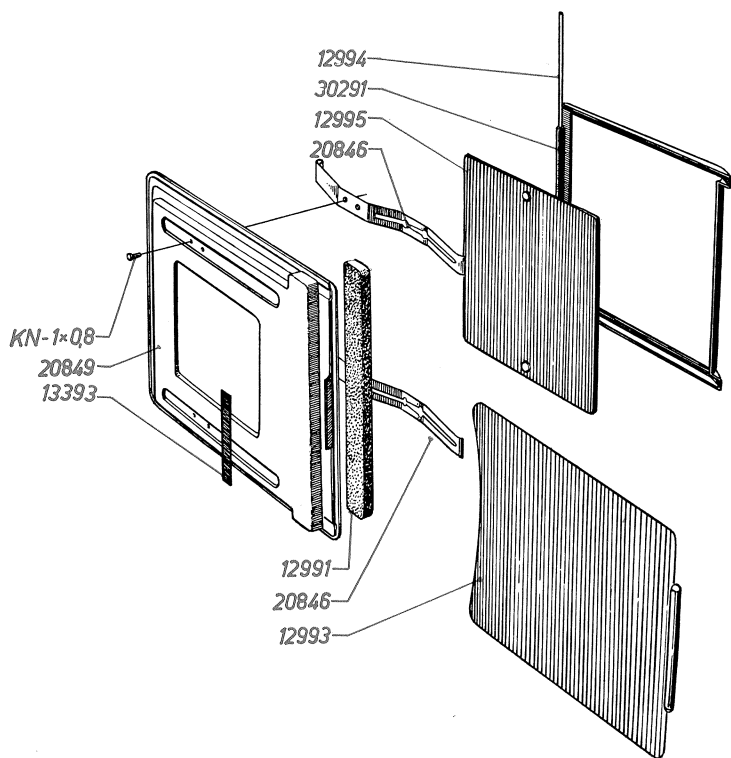
Intermediate connector
Code No. 50466
Construction No. 13641



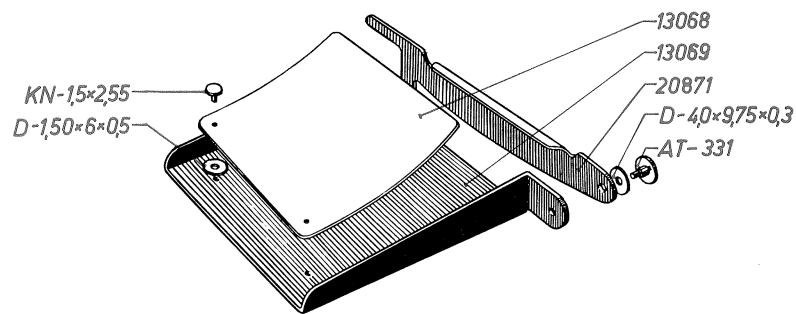
Cut film adapter
 Code No. 41017
 Construction No. 30297



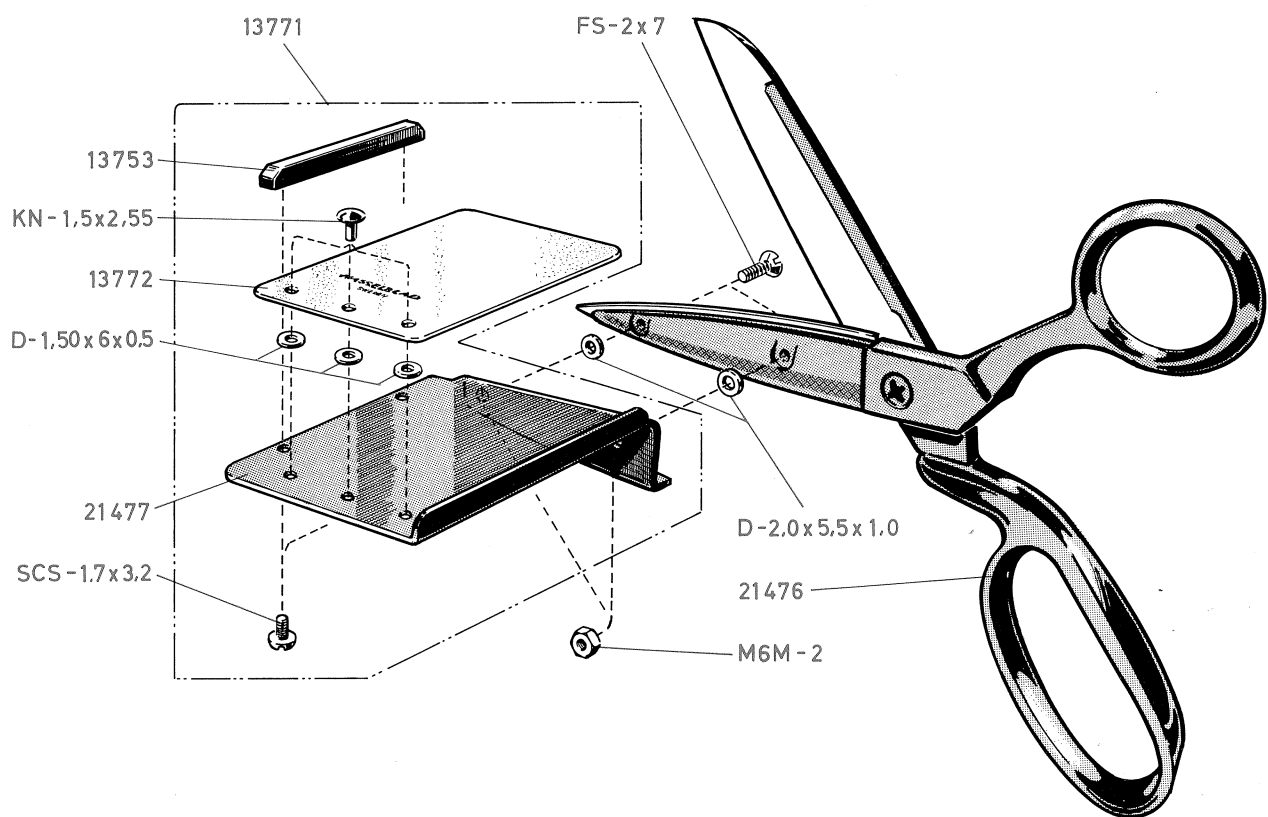
Cut film holder
 Code No. 51012
 Construction No. 20851



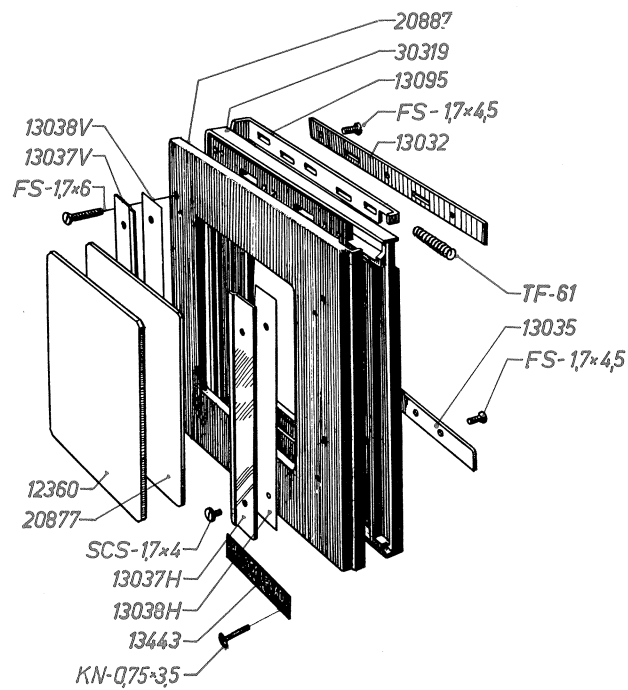
Film cutter, type 1
 Code No. 41033
 Construction No. 20873



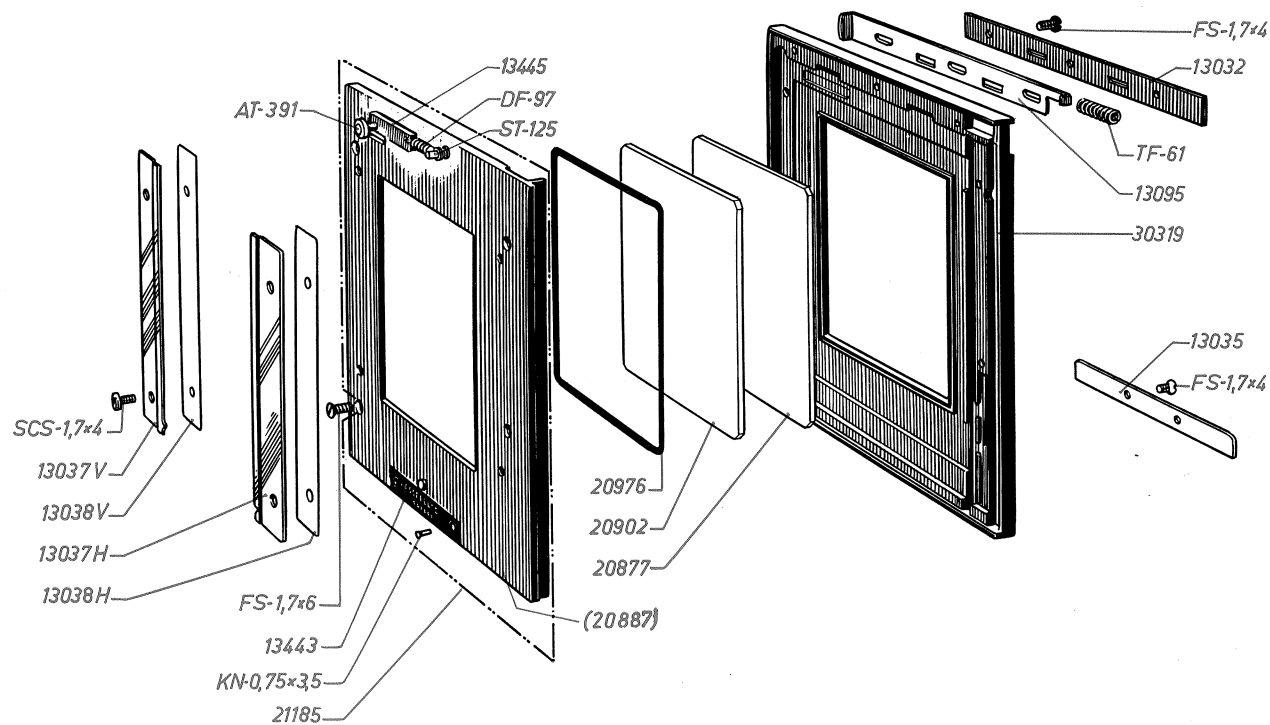
Film cutter, type 2
 Code No. 41092
 Construction No. 21475



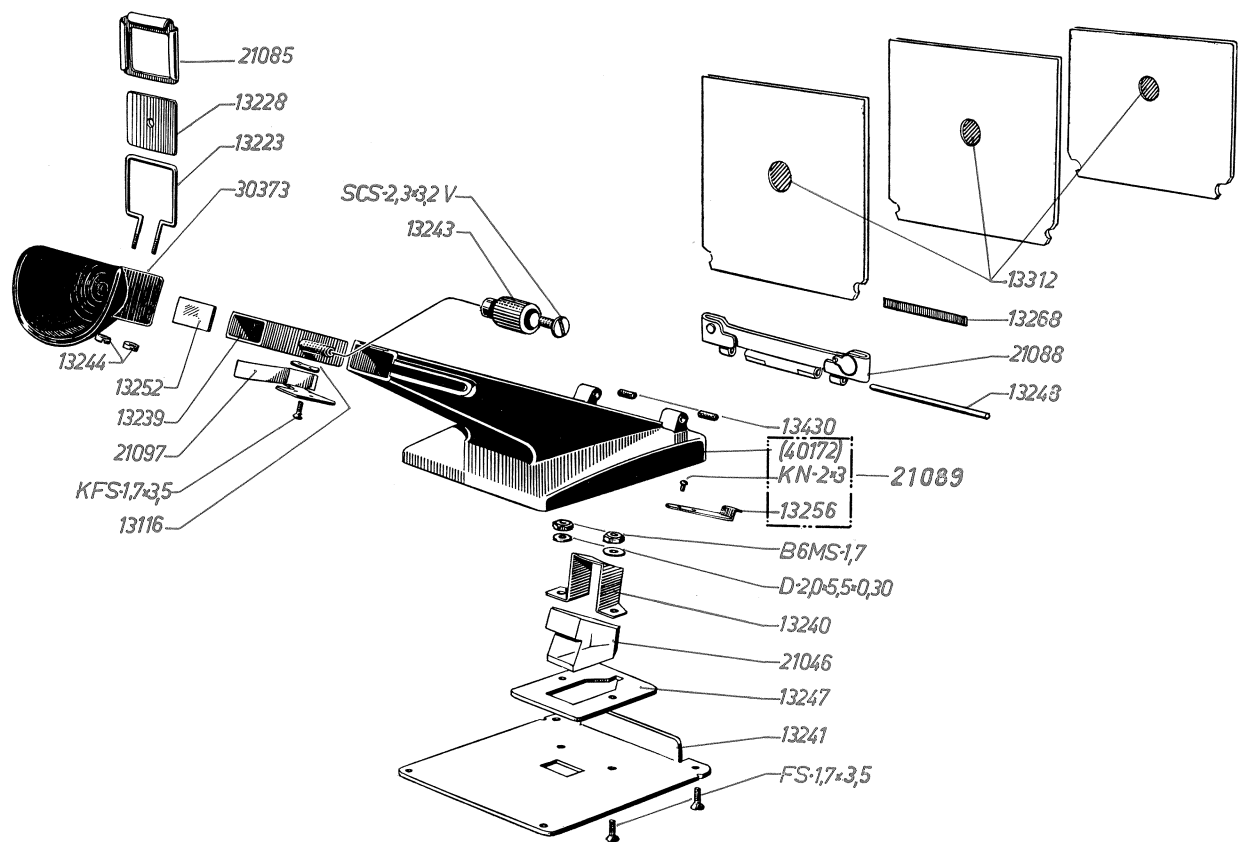
Ground glass adapter, type 1
 Code No. 41025
 Construction No. 20891



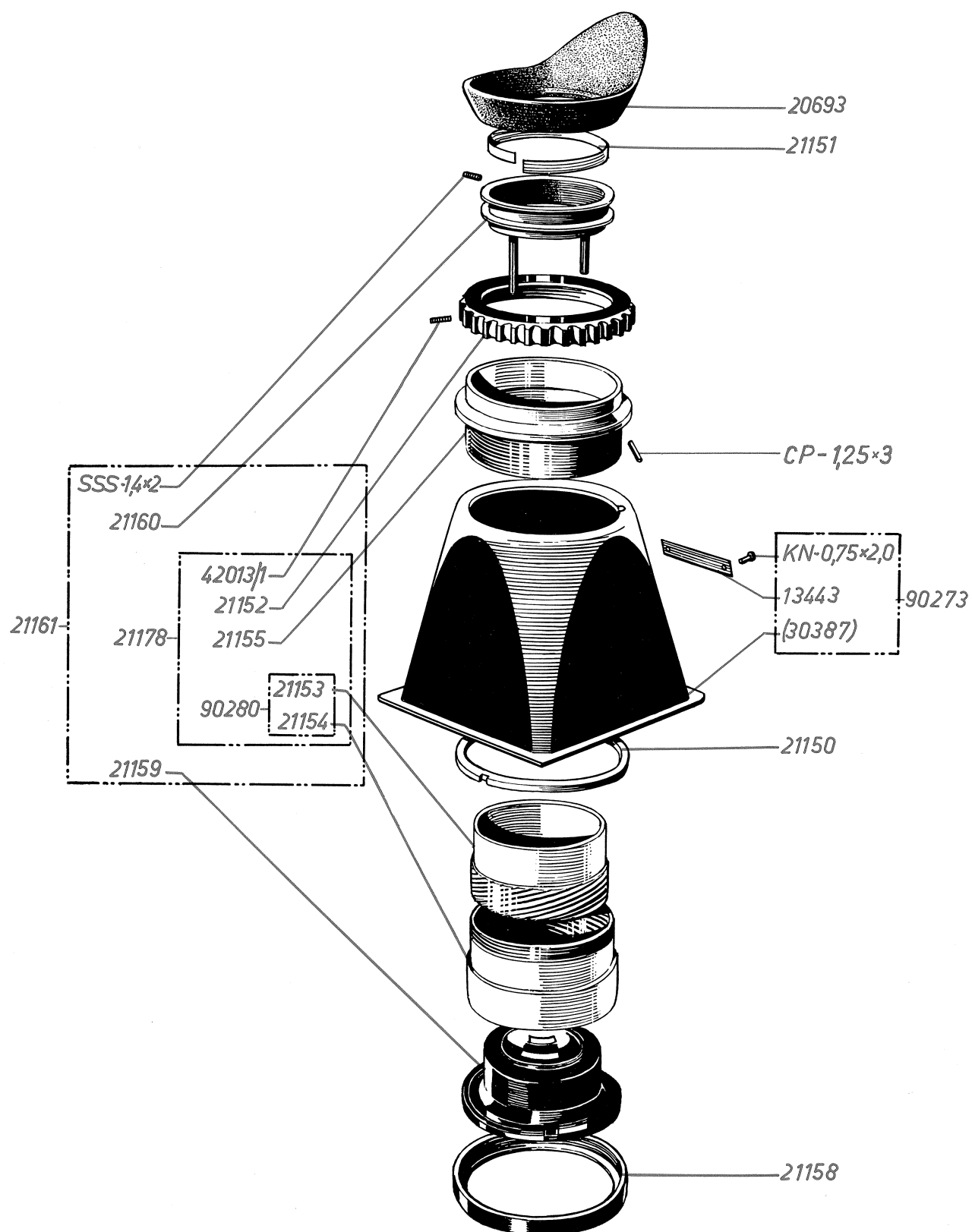
Ground glass adapter, type 2
 Code No. 41025
 Construction No. 20891



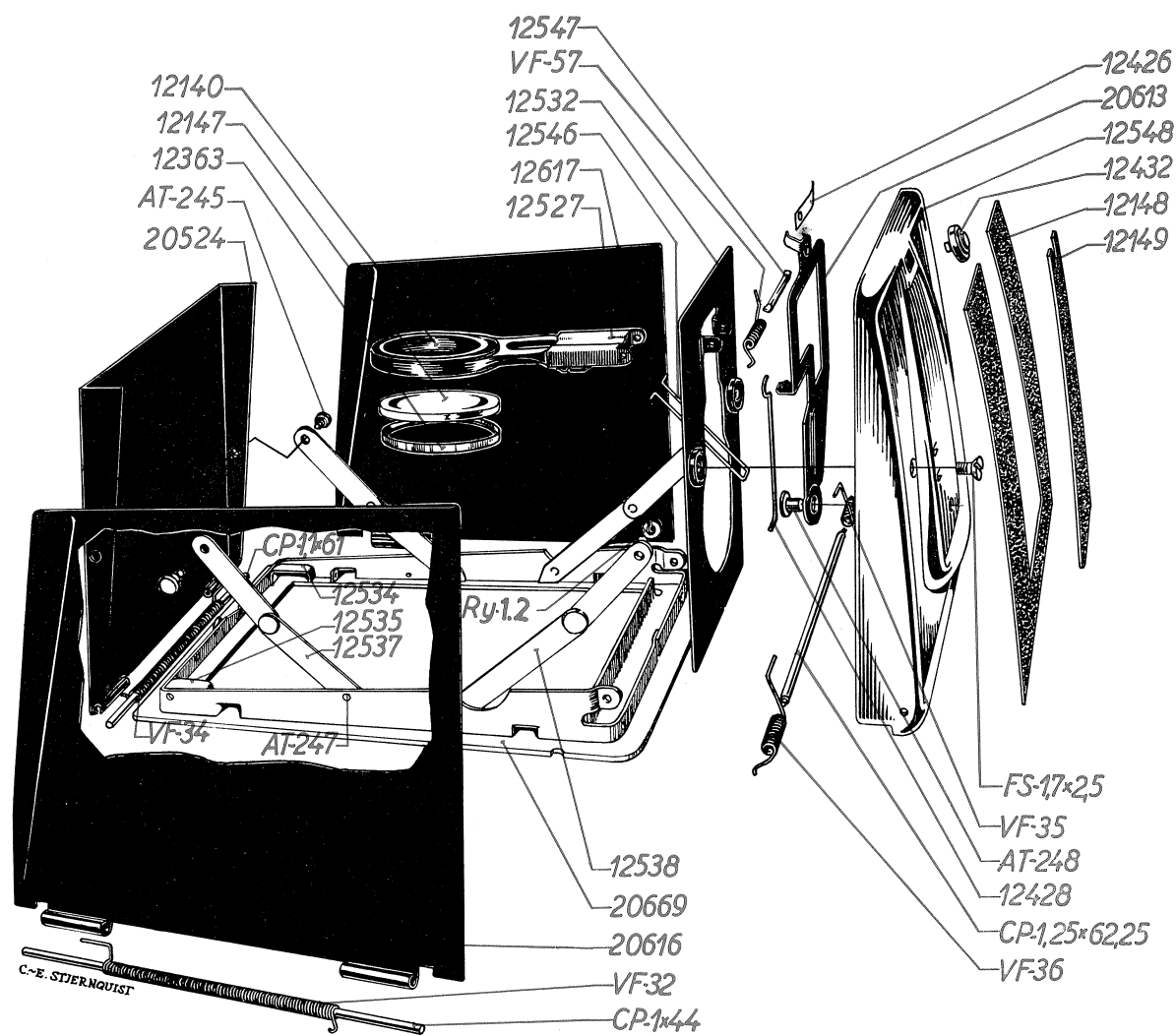
Prism sports viewfinder
 Code No. TIPRC
 Construction No. 40174

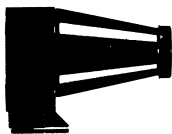
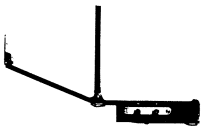
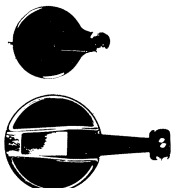


Magnifying hood
Code No. 42013
Construction No. 21162



Standard focusing hood, type 1
 Code No. FUSRC
 Construction No. 40108

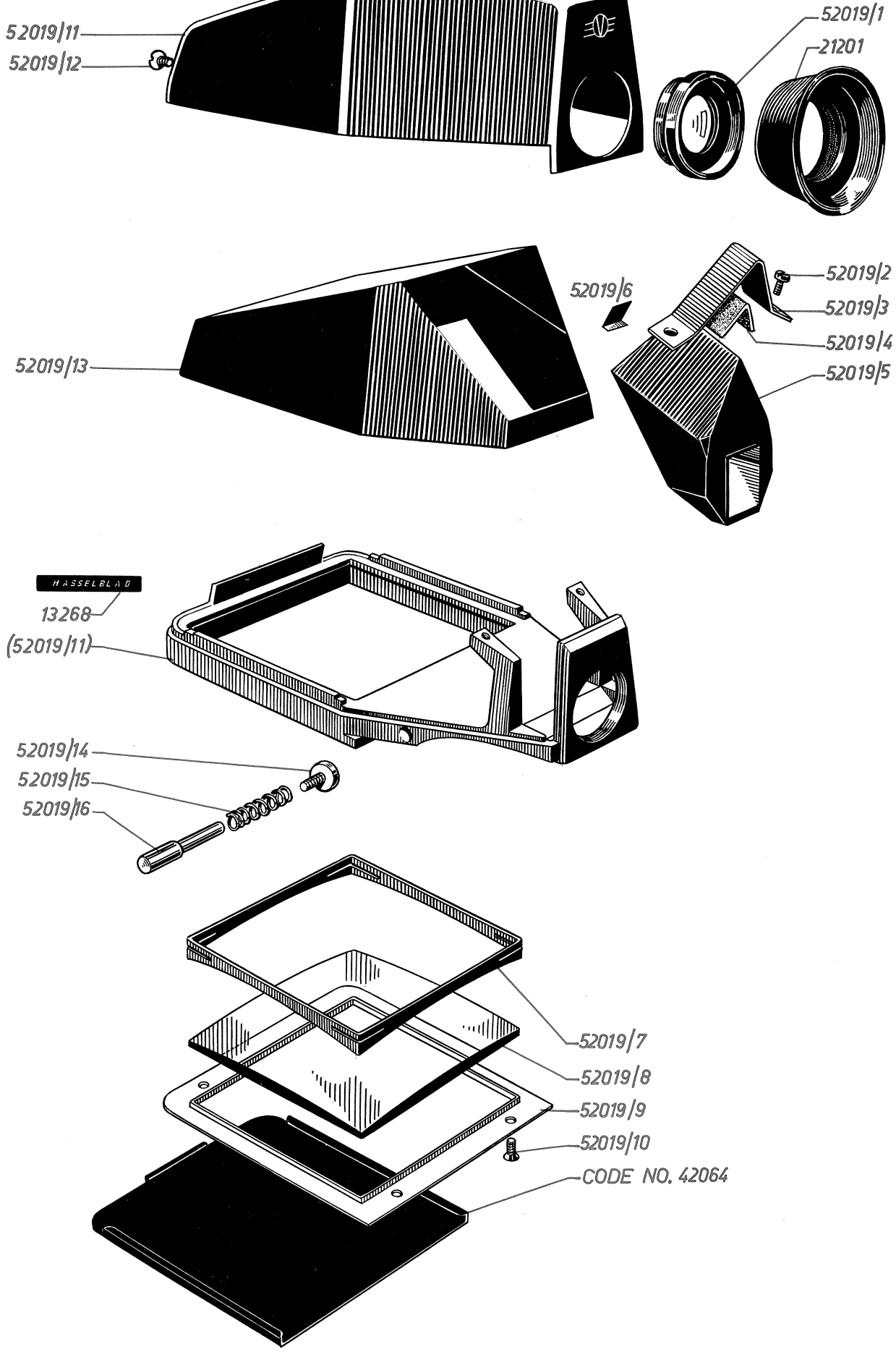


31		Standard focusing hood, type 2 Standardljusschakt, nuvarande typ. Normaler Lichtschacht, letztes Modell Capuchon de visée standard, actuellement en usage Cappuccio standard messa fuoco, modello attuale Capuchón de visor standard, el tipo presente
32		Eye-level prism finder HC-1 Primasökare HC-1 Prismensucher HC-1 Viseur à prisme HC-1 Mirino prismatico HC-1 Visor de prisma HC-1
33		Eye-level prism finder NC-2 Primasökare NC-2 Prismensucher NC-2 Viseur à prisme NC-2 Mirino prismatico NC-2 Visor de prisma NC-2
34		Eye-level prism finder HC-3/70 Primasökare HC-3/70 Prismensucher HC-3/70 Viseur à prisme HC-3/70 Mirino prismatico HC-3/70 Visor de prisma HC-3/70
35		Finder for the SWC Sökare SWC Sucher SWC Viseur SWC Mirino SWC Visor SWC
36		Sports viewfinder 1000F, 500C, 500EL Sportsökare 1000F, 500C, 500EL Sportsucher 1000F, 500C, 500EL Viseur sport 1000F, 500C, 500EL Mirino sportivo 1000F, 500C, 500EL Visor deportivo 1000F, 500C, 500EL
37		Spirit level Vattenpass Wasserwaage Niveau à bulle Livella a bolla d'aria Nivel de burbuja
38		Adjustable flash shoe Blixtlampsko Blitzlampenschuh Griffe orientable pour flash Slitta per torcia flash Soporte para flash electrónico
39		Quick-winding crank for magazines, Rapid-winding crank, 500C Snabbvev för magasin Schnellkurbel für Magazine Manivelle d'enroulement rapide pour magasin Manovella per avvolgimento rapido magazzini Manivela de enrollamiento rápido para chasis
40		Knob with exposure meter Ratt med exponeringsmätare Bedienungsrad mit Belichtungsmesser Bouton-posemètre Bottone di carica con esposimetro Botón con exposímetro

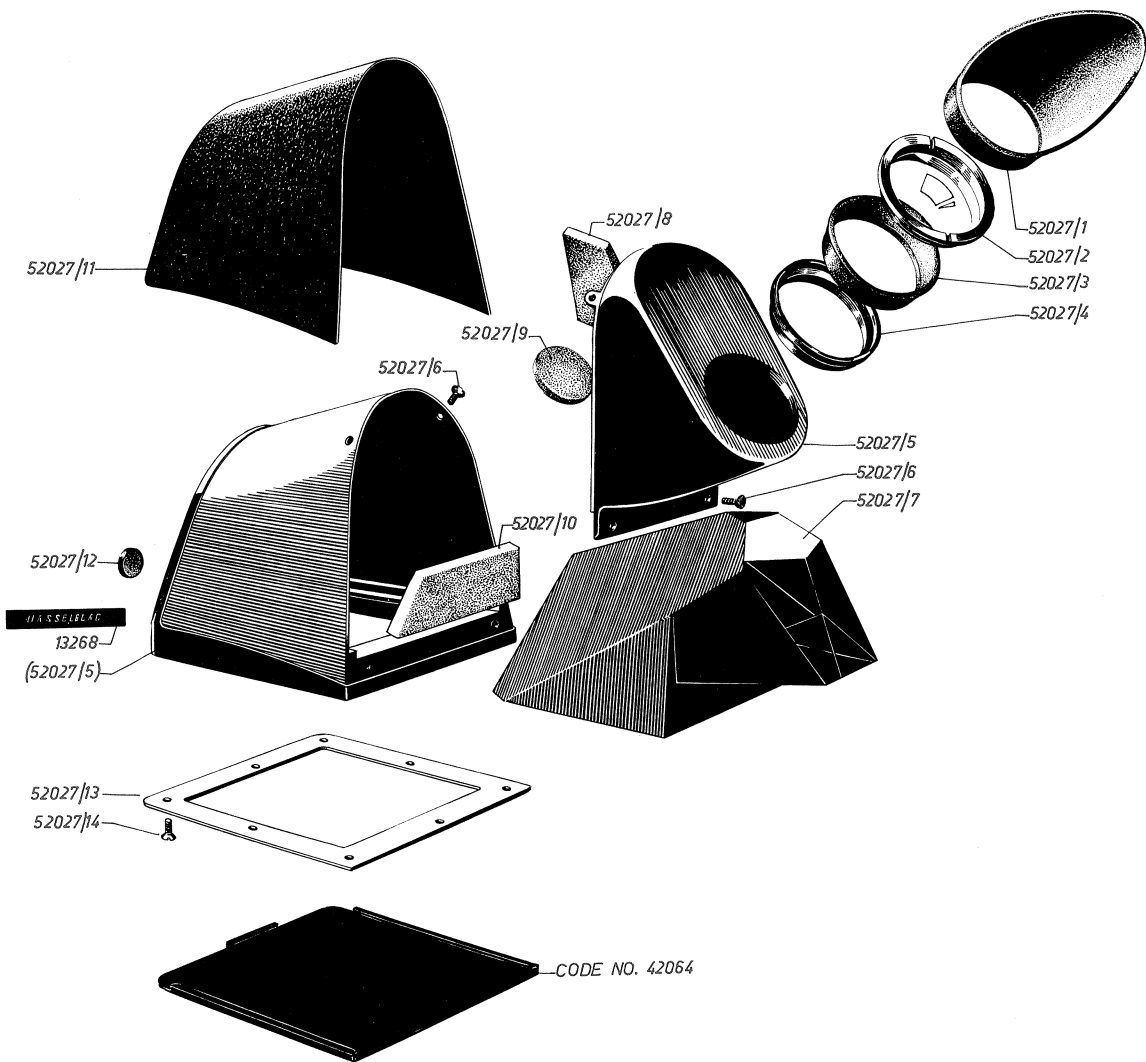
31



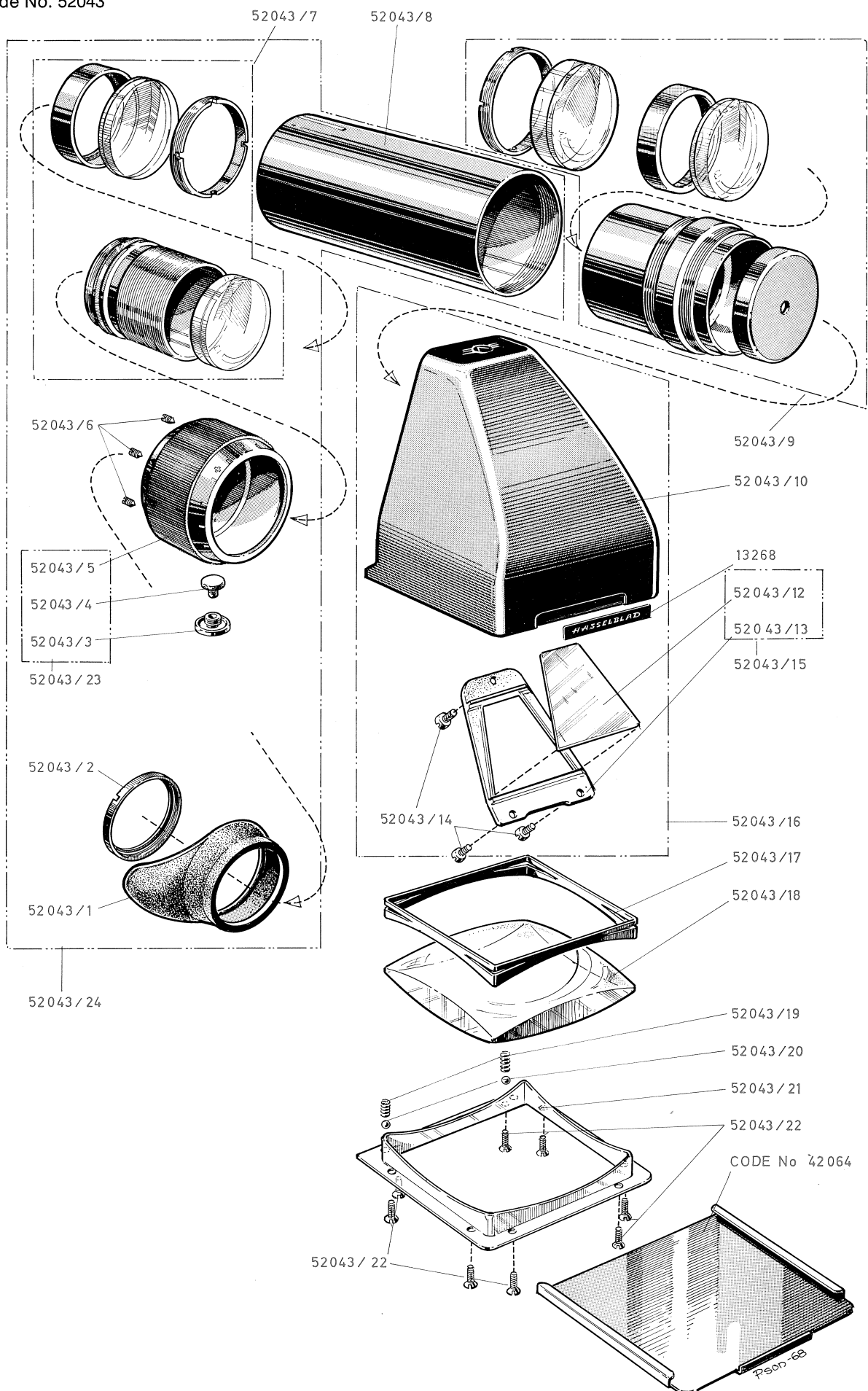
Eye-level prism finder HC-1
Code No. 52019
Construction No. 30405



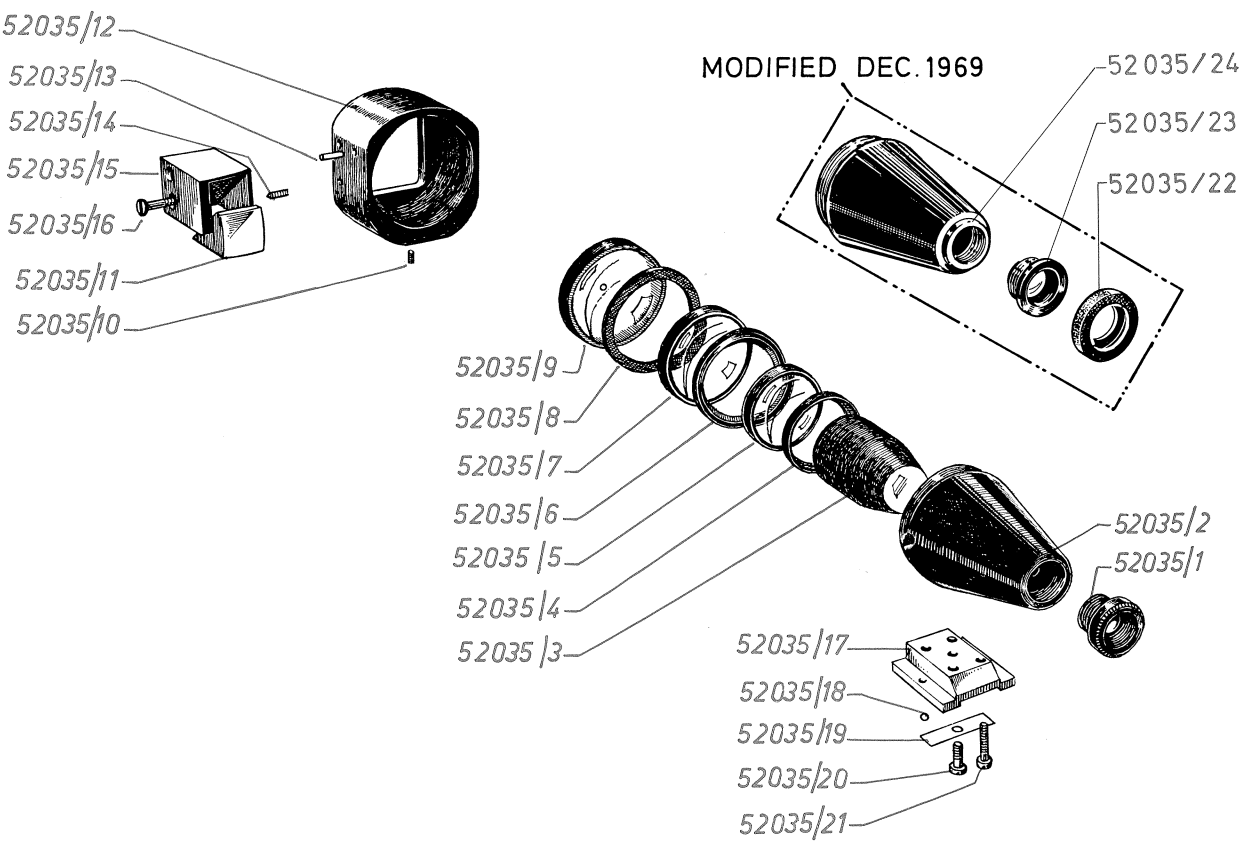
Eye-level prism finder NC-2
Code No. 52027
Construction No. 30460



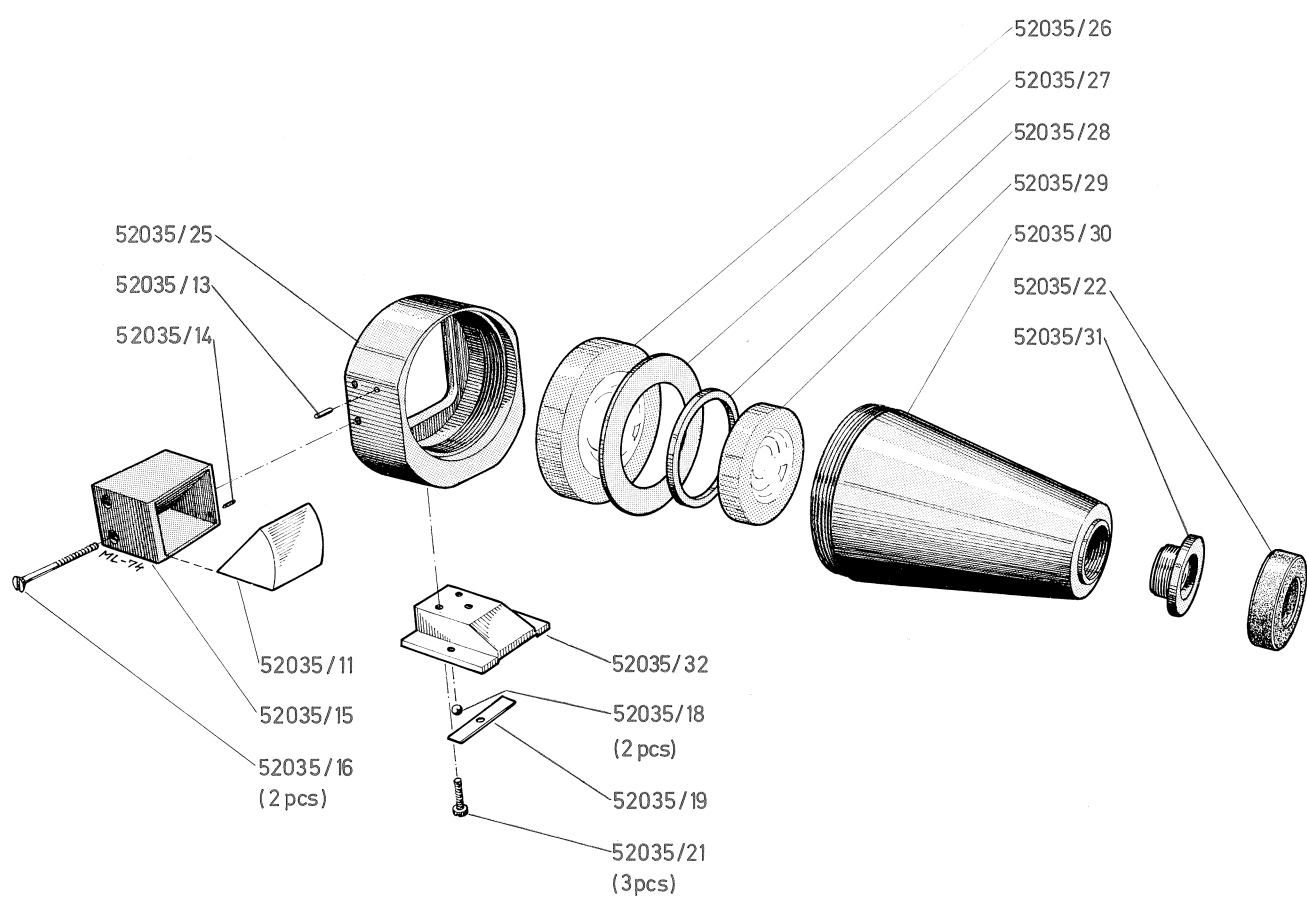
Eye-level prism finder HC-3/70
Code No. 52043



Finder for the SWC
Code No. 52035
Construction No. 12935

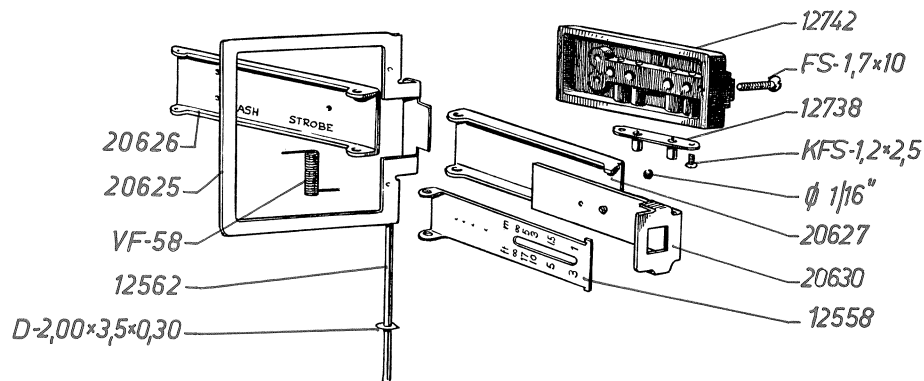


Finder for the SWC (Modified 1974)
Code No 52035
Construction No 30677

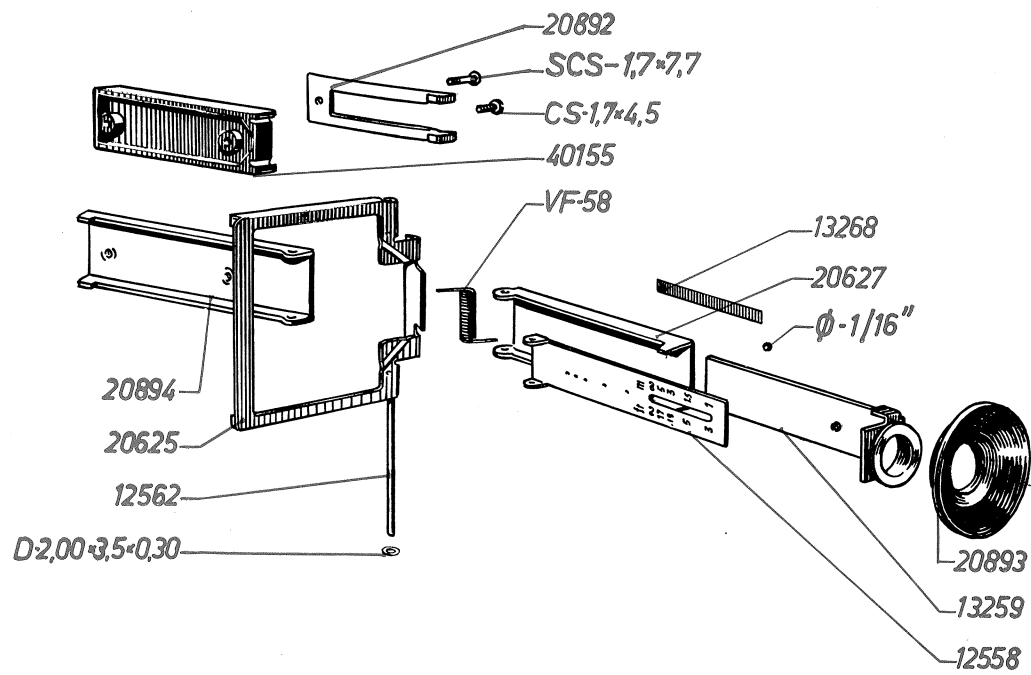


35
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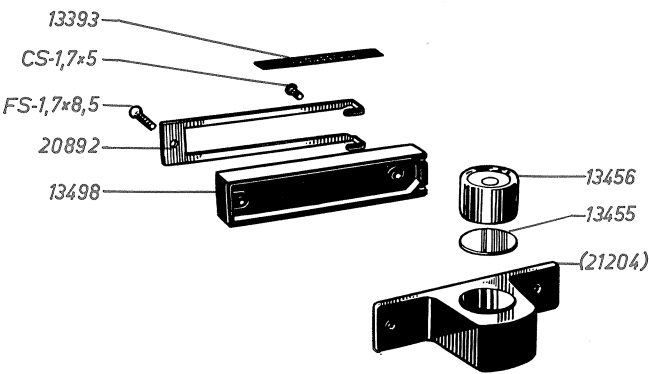
Sports viewfinder for 1000 F
 Code No. 91073
 Construction No. 20686



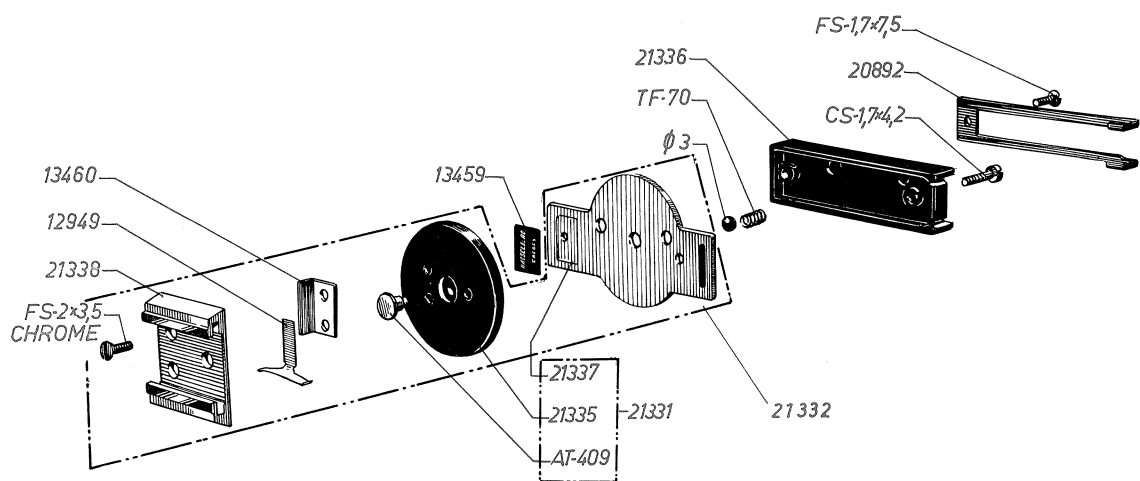
Sports viewfinder for 500C, 500EL
 Code No. 43028
 Construction No. 20896



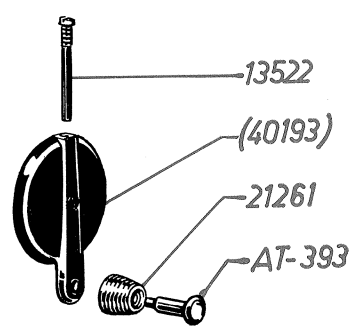
Spirit level
Code No. 43117
Construction No. 13457



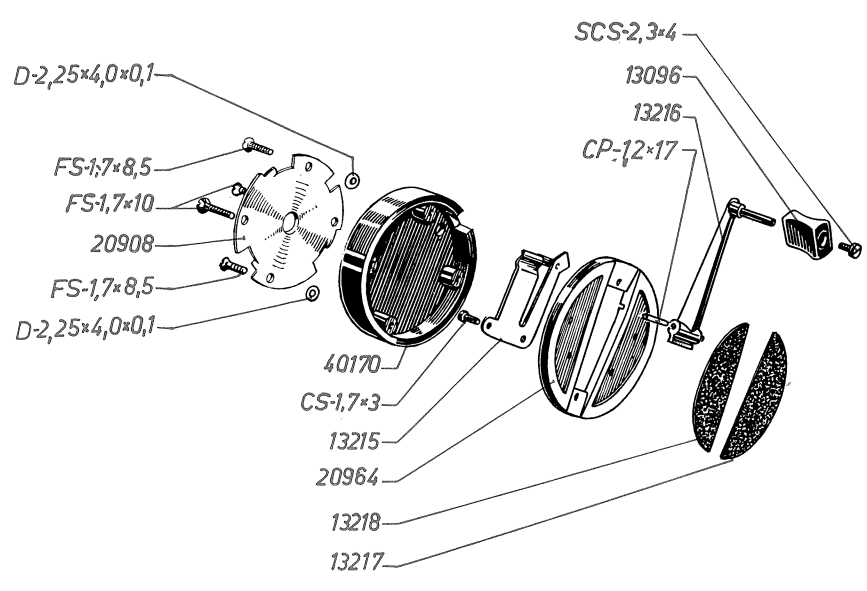
Adjustable flash shoe
 Code No. 43125
 Construction No. 21333



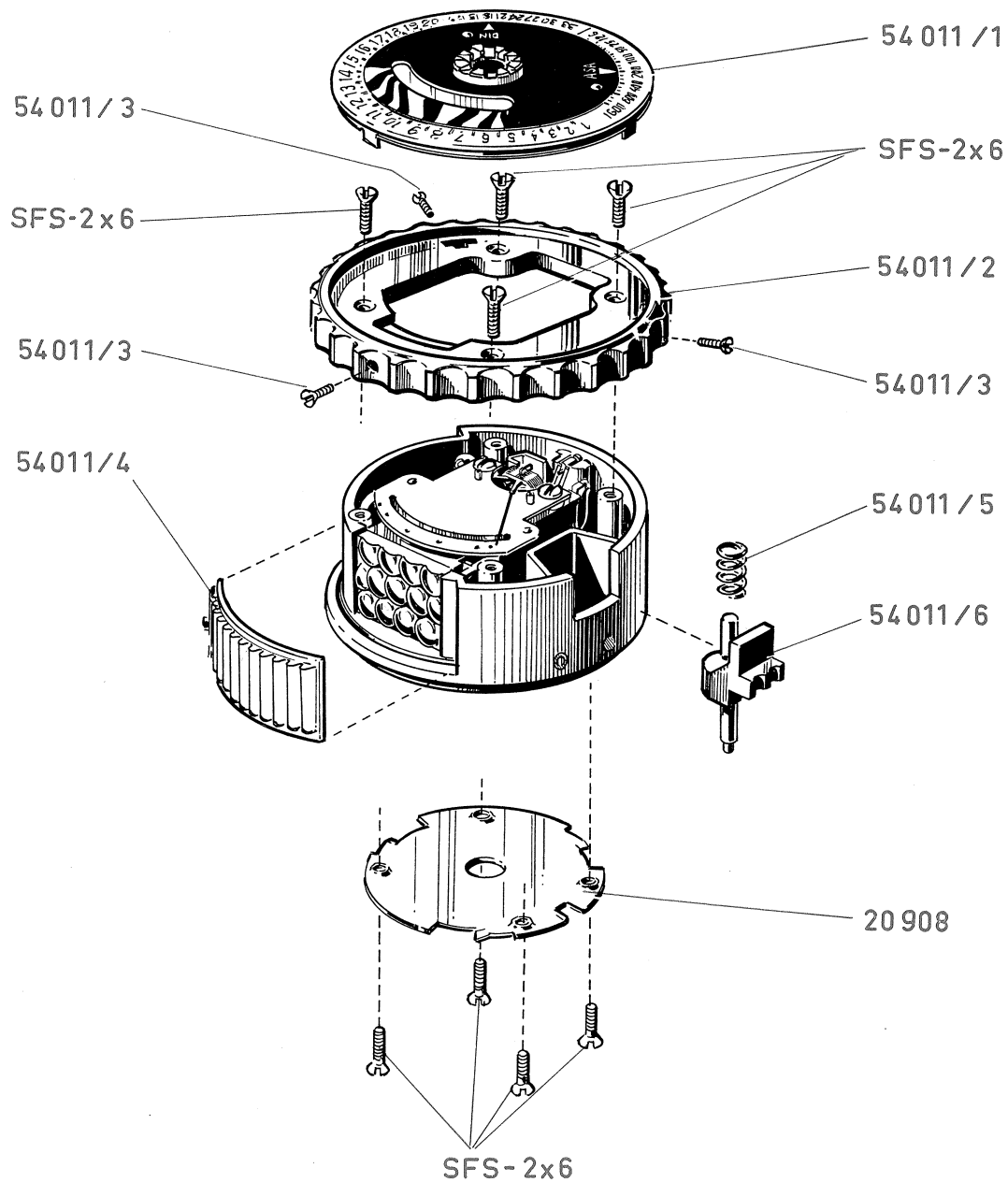
Quick-winding crank for film-magazines
 Code No. 41076
 Construction No. 21260

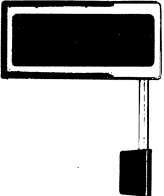
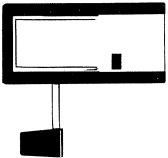
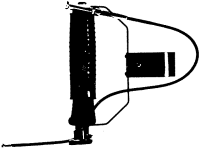
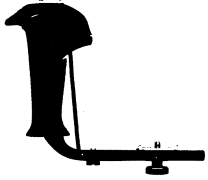
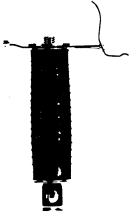


Rapid-winding crank
 Code No. 44016
 Construction No. 20988

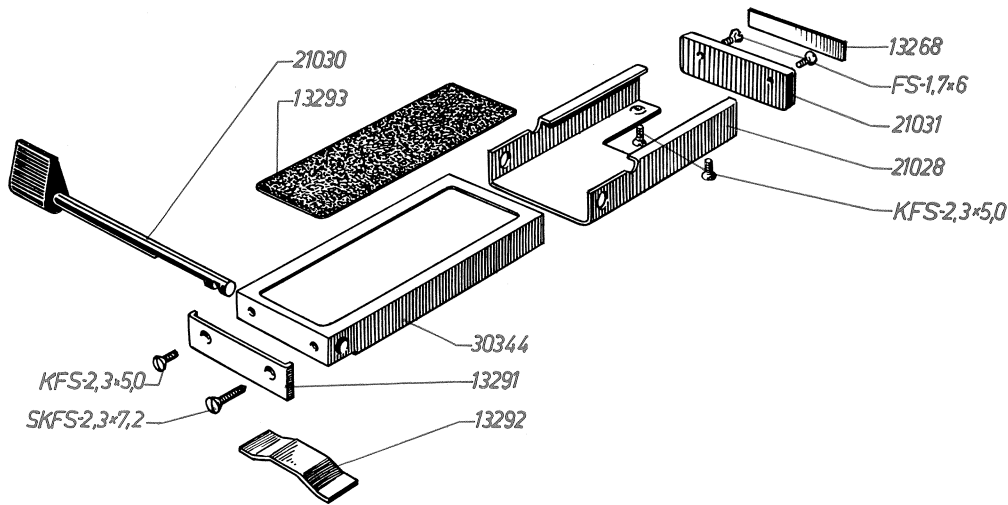


Knob with exposure meter
Code No. 54011
Construction No. 20963

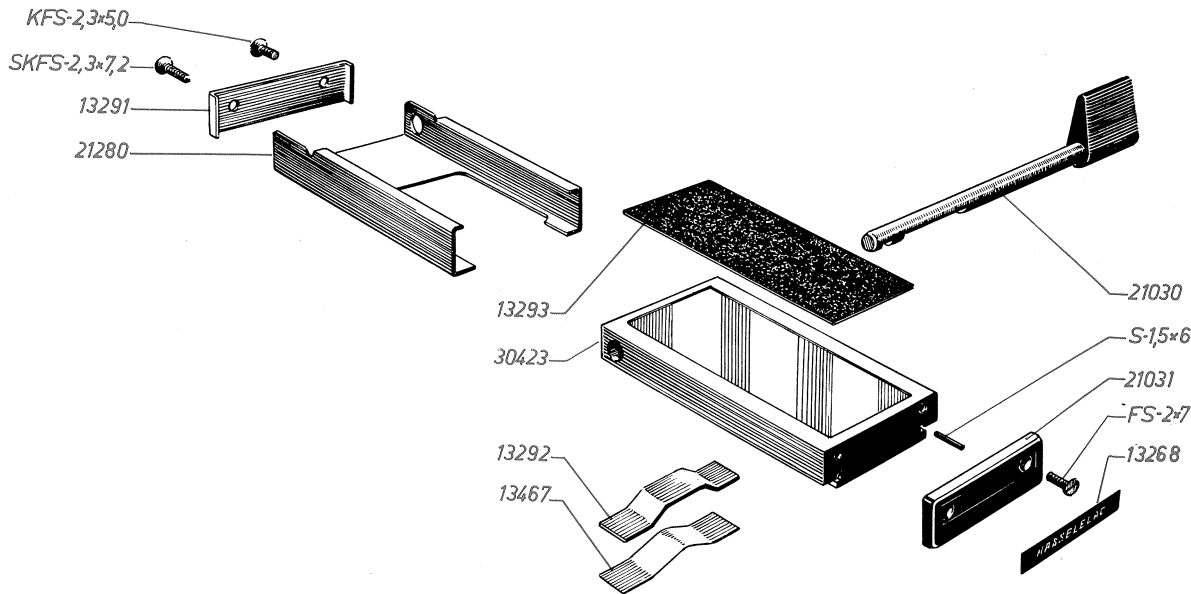


41		Tripod quick coupling, type 1 and 2 Snabbkoppling Schnellfassung Plateau de fixation rapide Attacco rapido per cavalletto Acoplamiento rápido para trípode
42		Tripod quick coupling, type 3 Snabbkoppling Schnellfassung Plateau de fixation rapide Attacco rapido per cavalletto Acoplamiento rápido para trípode
43		Flash-gun bracket, type 1 Blixtlamphållare Blitzlamphenhalter Support pour lampes flash Impugnatura fisiologica con attacco a slitta per flash Soporte para flash
44		Flash-gun bracket, type 2 Blixtlamphållare Blitzlamphenhalter Support pour lampes flash Impugnatura fisiologica con attacco a slitta per flash Soporte para flash
45		Adjustable flash-holder Reflektorarm Reflektorarm Support de réflecteur Staffa porta riflettore Soporte de reflector
46		Camera grip with release Handtag Handgriff Poignée Impugnatura con scatto Empuñadura
47		Pistol grip Pistolgrepp Pistolengriff Poignée Impugnatura a pistola Empuñadura de pistola
48		Neck strap, type 1 and 2 Nackrem Tragriemen Bretelle Cinghia a tracolla Correa de suspensión
49		Connecting cords 500EL, LK 150, LK 500, DK 3000. Anslutningskablar 500EL LK 150, LK 500, DK 3000. Verbindungskabel 500EL, LK 150, LK 500, DK 3000. Câbles de raccordement 500EL, LK 150, LK 500, DK 3000. Cavi 500EL, LK 150, LK 500, DK 3000. Cables de conexión 500EL, LK 150, LK 500, DK 3000.
50		Release cords SK 150, FK 30, FK 300, FK 600 Utlösningskablar SK 150, FK 30, FK 300, FK 600 Auslösekabel SK 150, FK 30, FK 300, FK 600 Déclencheur électrique à câble SK 150, FK 30, FK 300, FK 600 Scatto flessibile SK 150, FK 30, FK 300, FK 600 Cables de disparo SK 150, FK 30, FK 300, FK 600

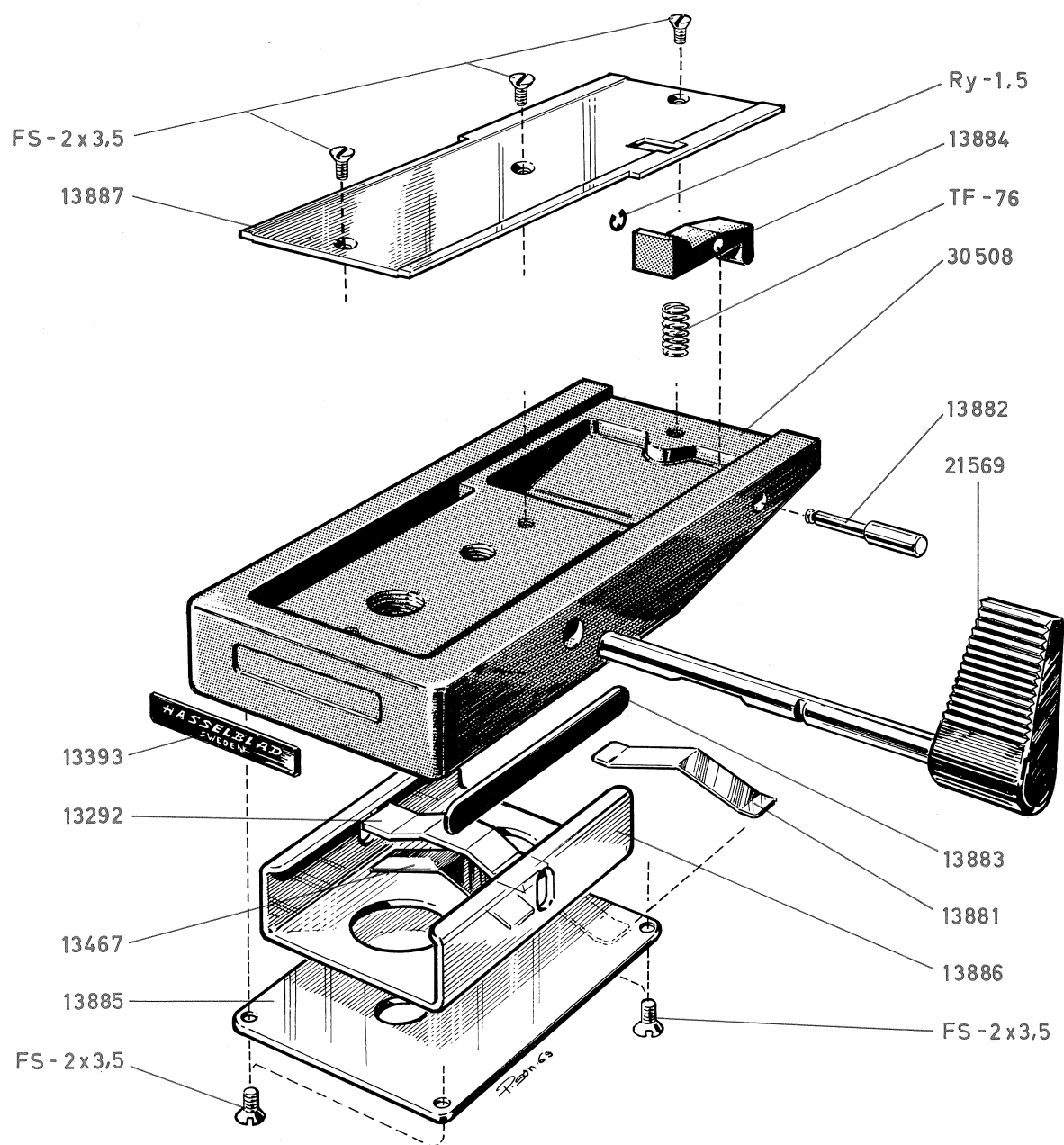
Tripod quick coupling, type 1
Code No. TISKC
Construction No. 21039



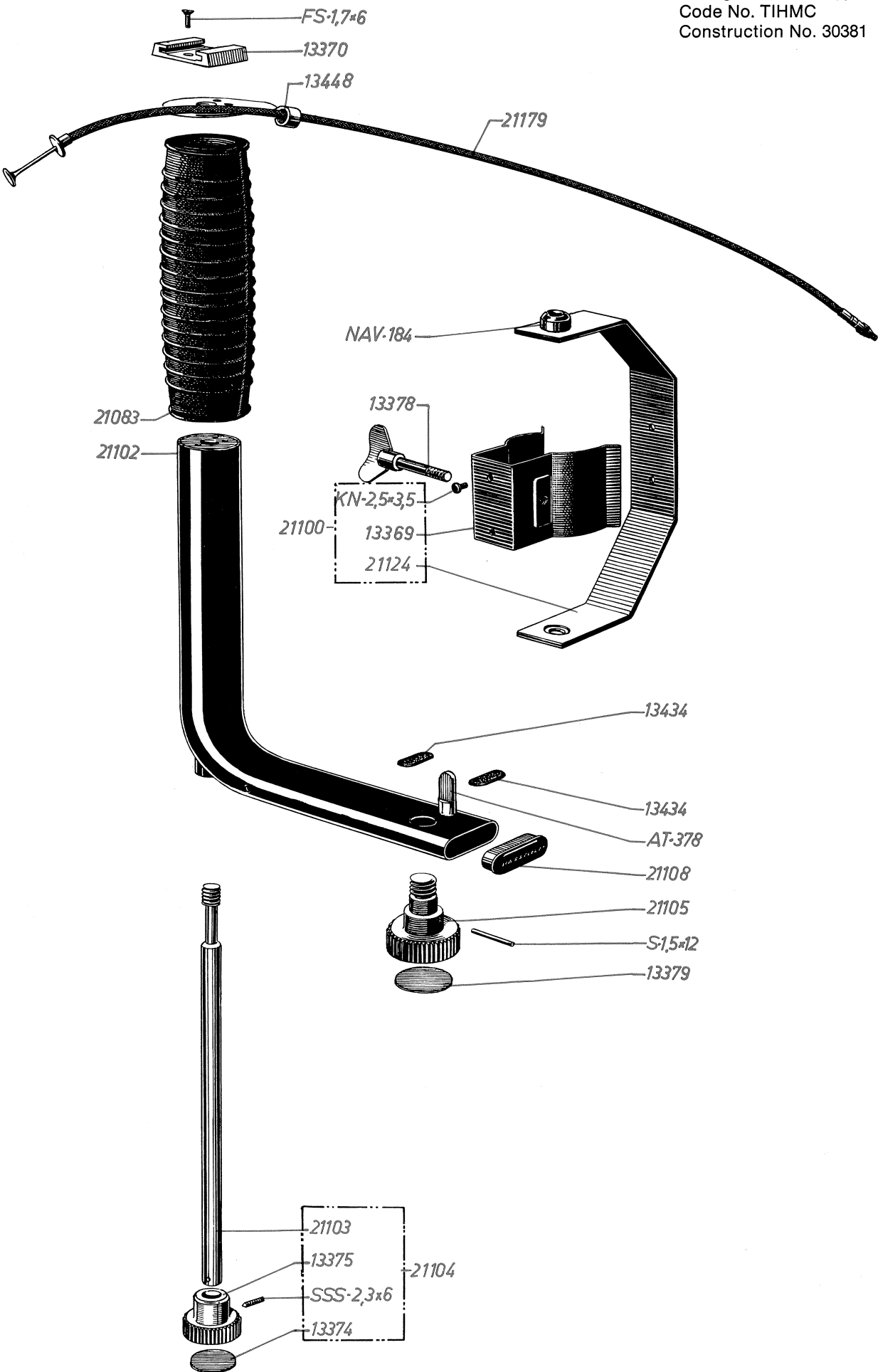
Tripod quick coupling, type 2
Code No. 45012
Construction No. 30422



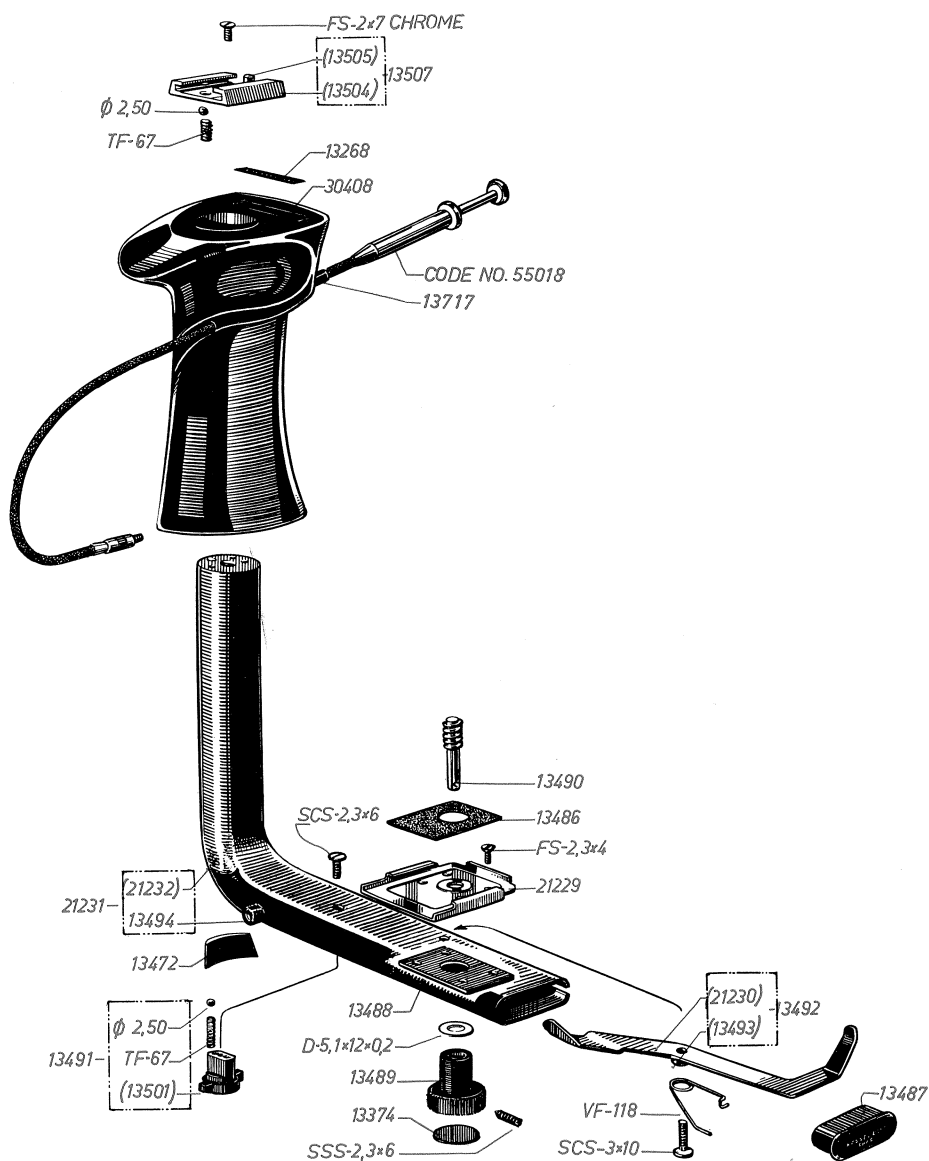
Tripod quick coupling, type 3
Code No. 45004
Construction No. 30507



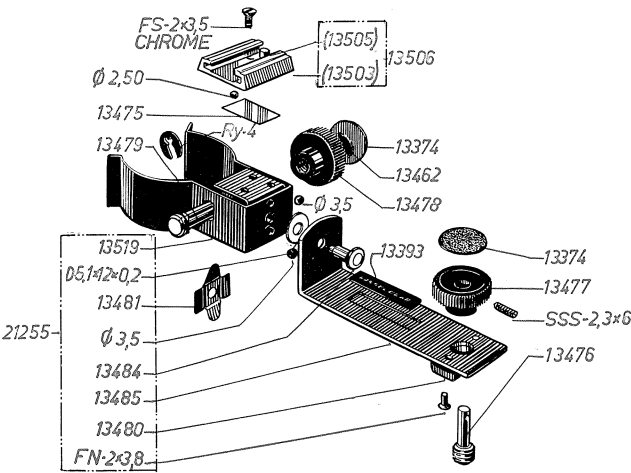
Flashgun bracket, type 1
Code No. TIHMC
Construction No. 30381



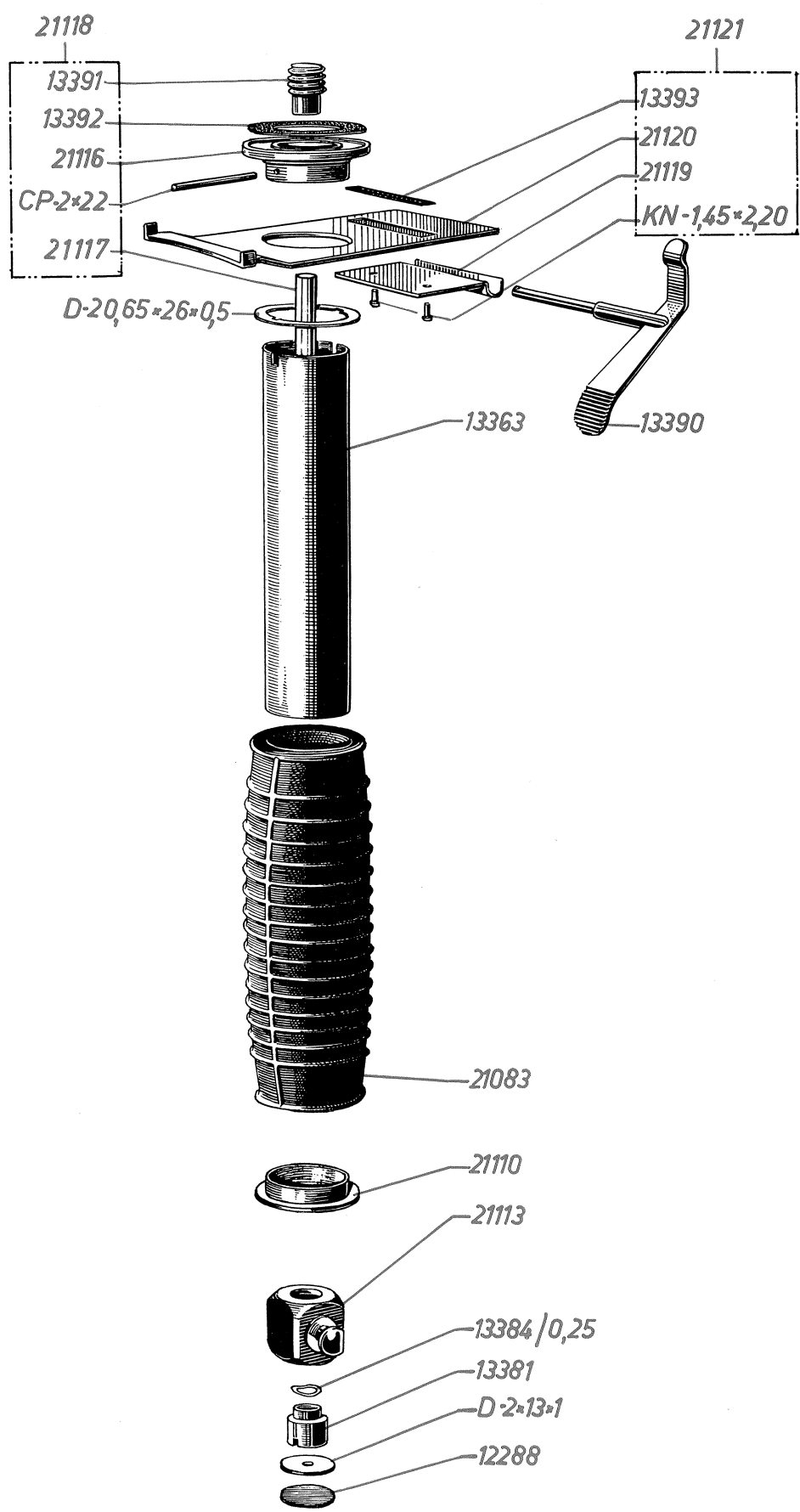
Flashgun bracket, type 2
Code No. 45020
Construction No. 40192



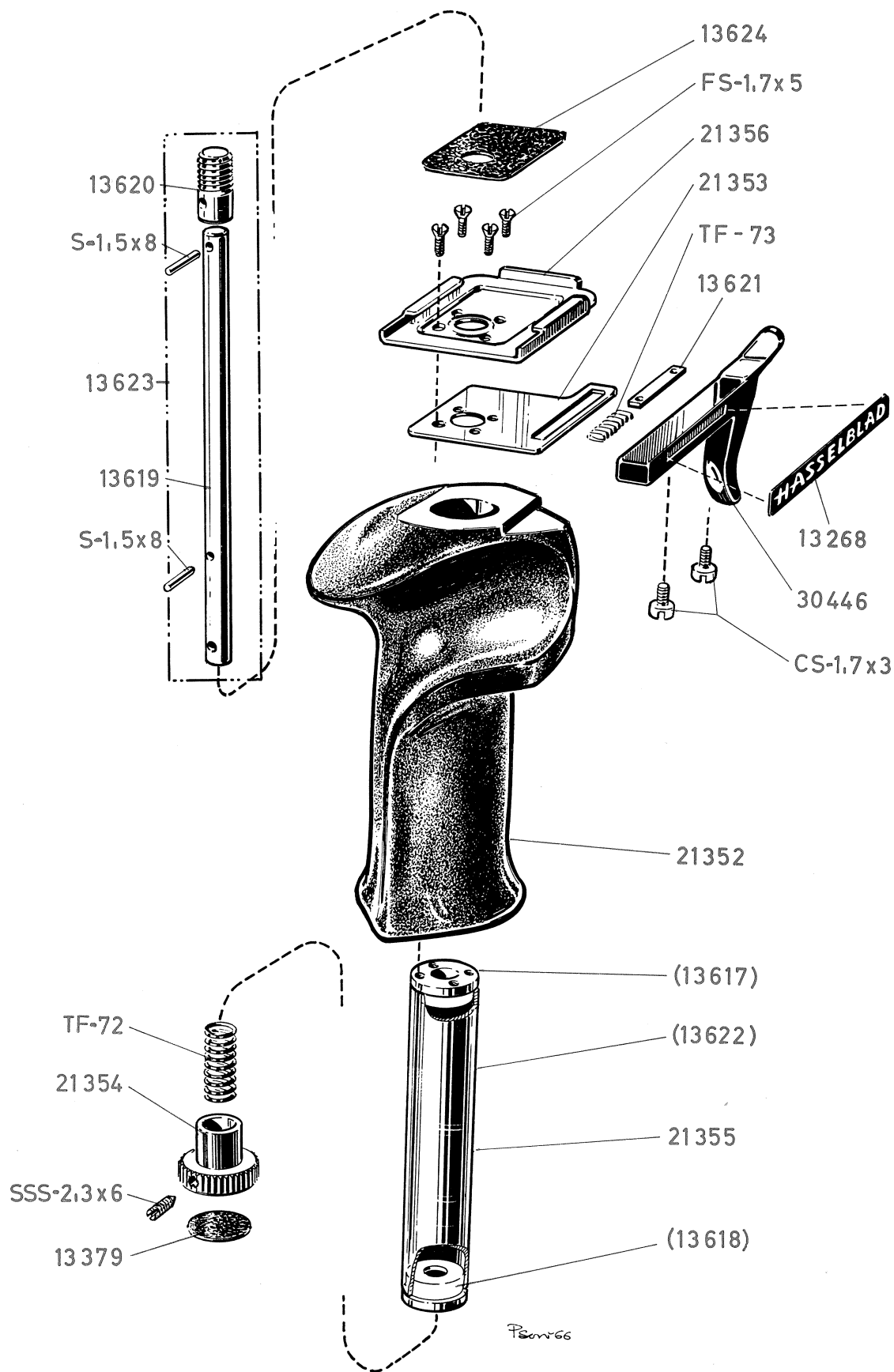
Adjustable flash- holder
Code No. 45039
Construction No. 30410



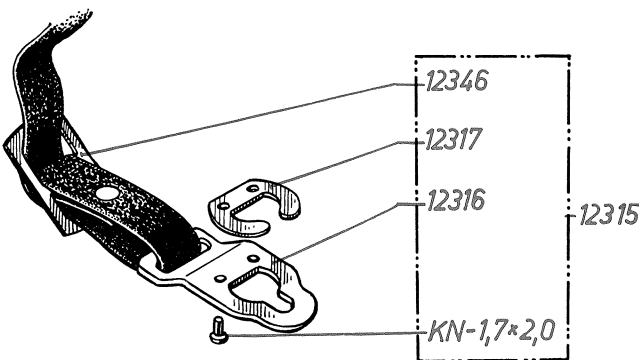
Camera grip with release
 Code No. TIHNC
 Construction No. 21122



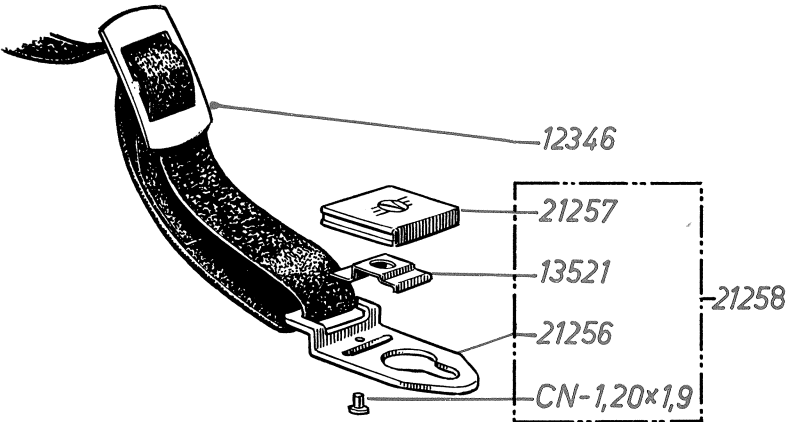
Pistol grip
Code No. 45047
Construction No. 30447



Neck strap, type 1
Code No. FUREC
Construction No. 20576



Neck strap, type 2
Code No. 49018
Construction No. 21259

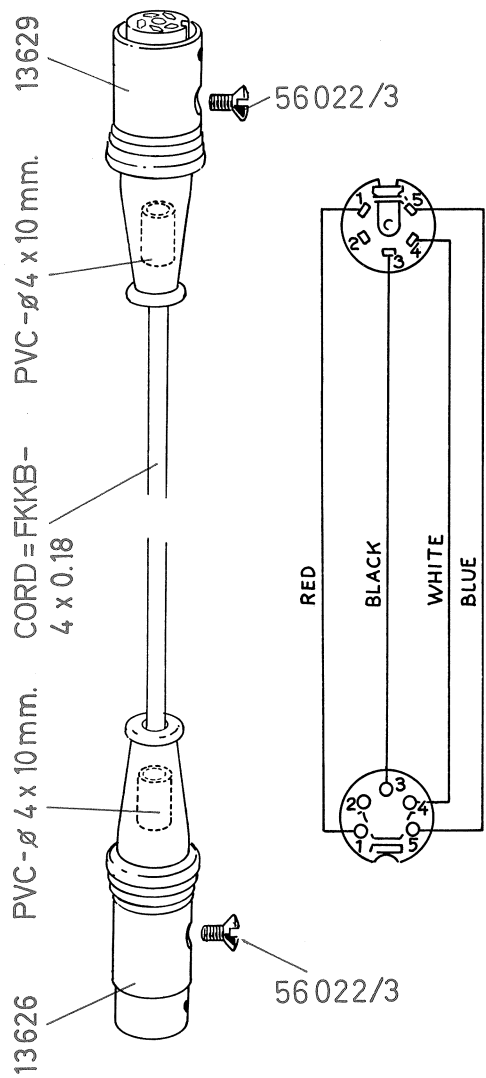


Connecting cord LK 150
Code No. 46019
Construction No. 21359-1

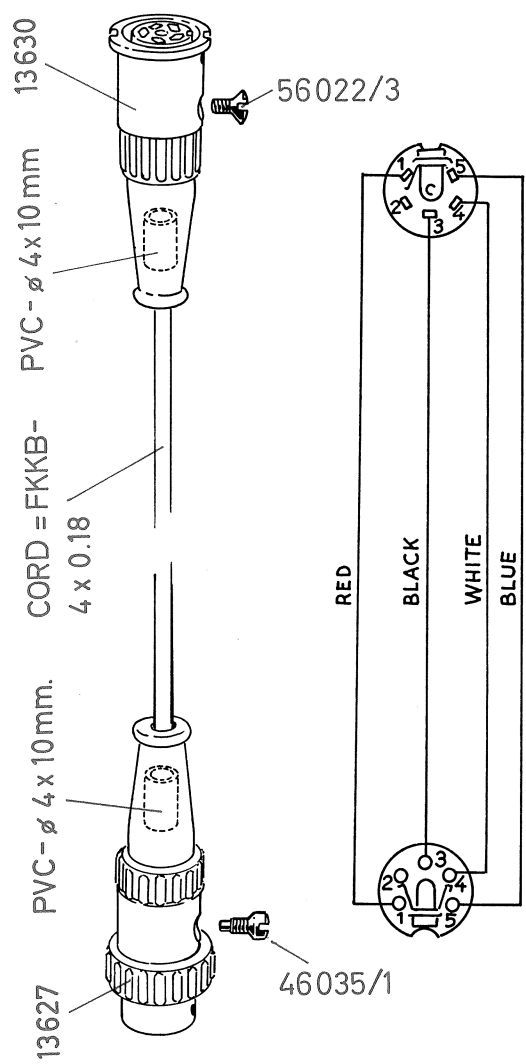
Connecting cord LK 500
Code No. 46027
Construction No. 21359-2

Connecting cord DK 3000
Code No. 46035
Construction No. 21360

LK 150, LK 500

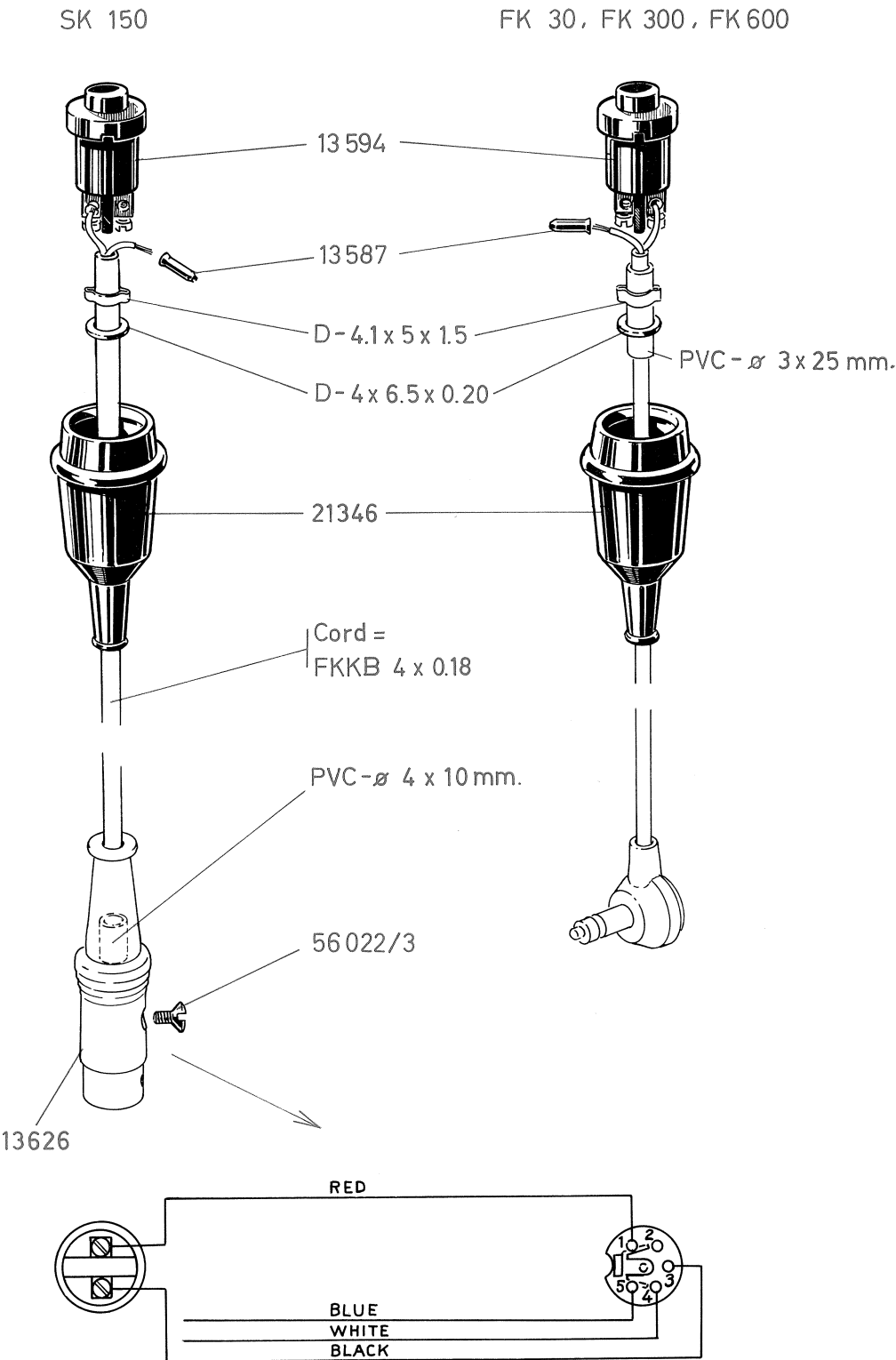


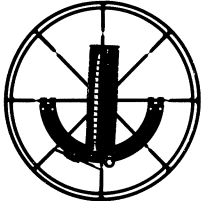
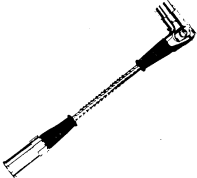
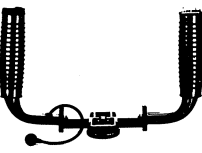
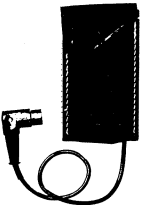
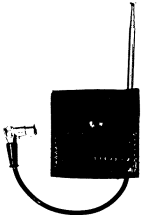
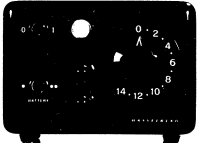
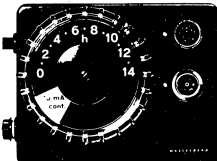
DK 3000



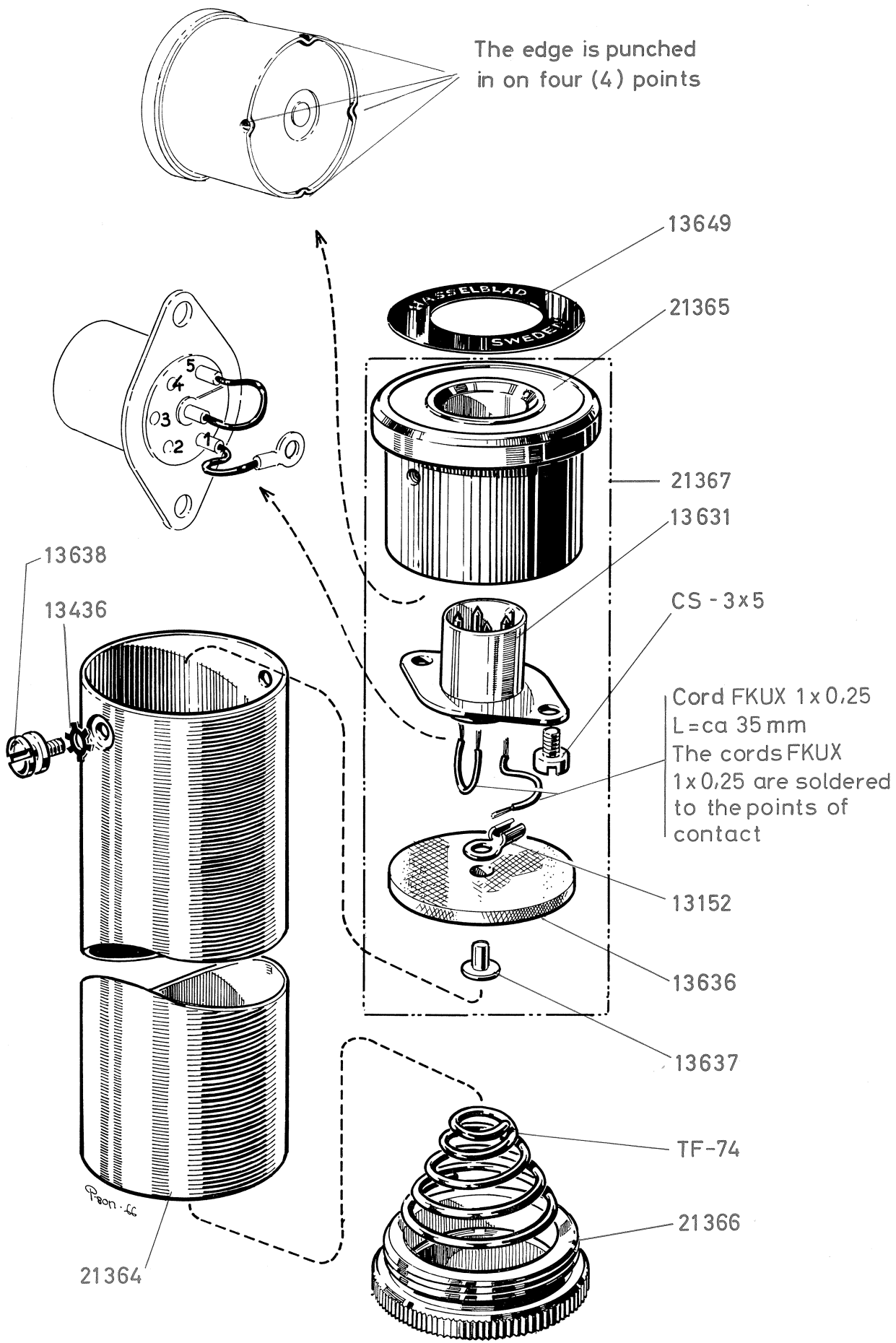
Release cord SK 150
 Code No. 46086
 Construction No. 21361

Release cord FK 30, FK 300, FK 600
 Code No. 46043, 46051, 46078
 Construction No. 21306-1, -2, -3

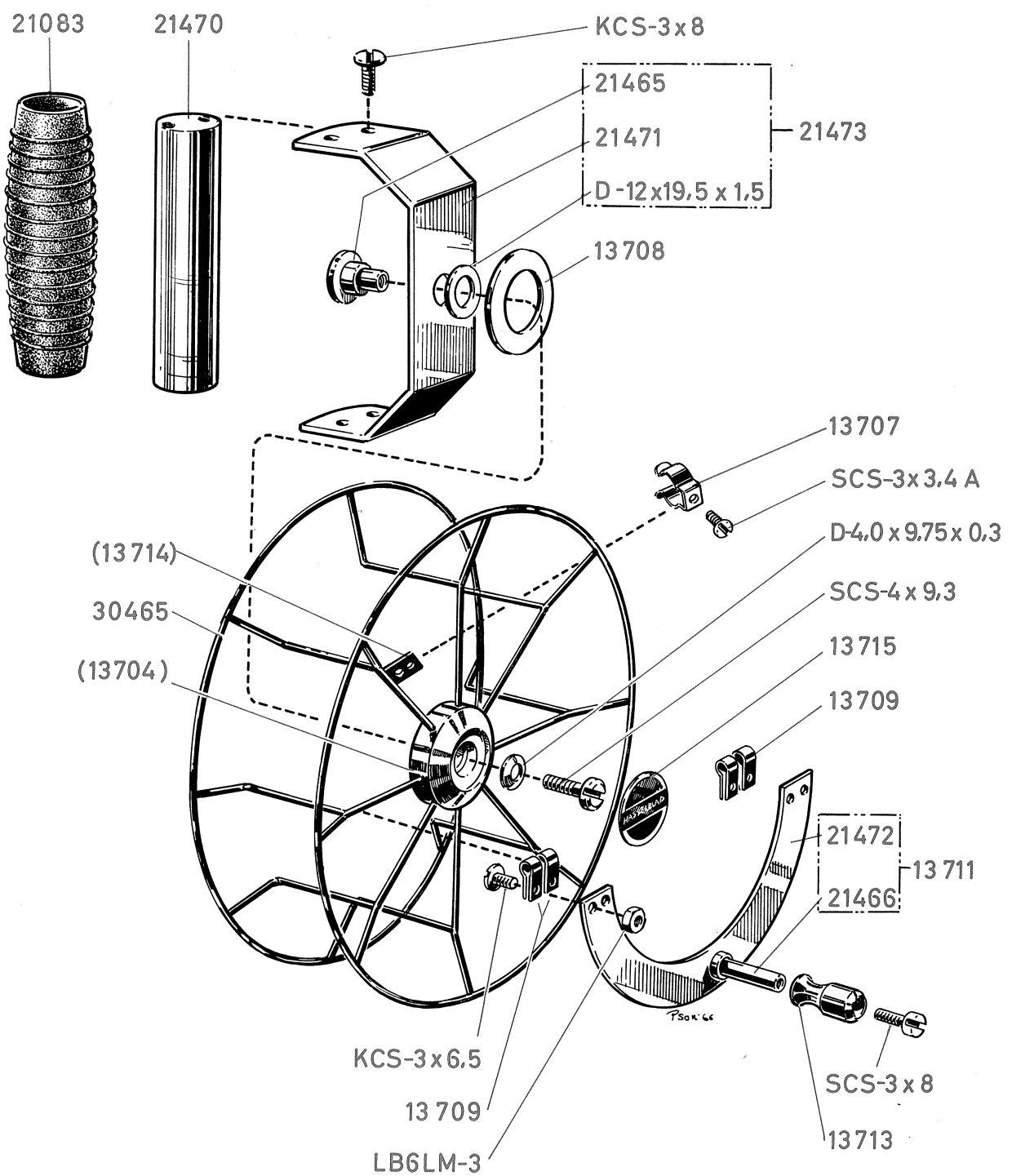


51		Battery case Batteristav Batteriestab Boîtier à piles Asta per batterie Dispositivo de recarga portátil a baterías
52		Cord reel Kabelvinda Kabelhaspel Dévidoir Avvolgicavo Bobina de cable
53		Amplifier Förstärkare Verstärker Amplificateur Amplificatore Amplificador
54		Double handgrip Dubbelhandtag Doppelgriff Support à double poignée Impugnatura doppia Empuñadura doble
55		Case for radio, type 1 Väska för radio Tasche für Funkgerät Etui pour récepteur radio Astuccio radio Estuche para receptor de radio
56		Case for radio, type 2 and 3 Väska för radio, nuvarande typ Tasche für Funkgerät, letztes Modell Etui pour récepteur radio, actuellement en usage Astuccio radio, modello attuale Estuche para receptor de radio, el tipo presente
57		Battery compartment Batterifack Batterieladefach Boîtier à accumulateurs Contenitore batterie Compartimento para baterías
58		Recharge unit I Laddaggregat I Batterieladegerät I Chargeur, modèle I pour accumulateurs Dispositivo di ricarica I Dispositivo de carga de baterías I
59		Recharge unit II Laddaggregat II Batterieladegerät II Chargeur, modèle II, pour accumulateurs Dispositivo di ricarica II Dispositivo de carga de baterías II
60		Recharge unit III Laddaggregat III Batterieladegerät III Chargeur, modèle III, pour accumulateurs Dispositivo di ricarica III Dispositivo de carga de baterías III

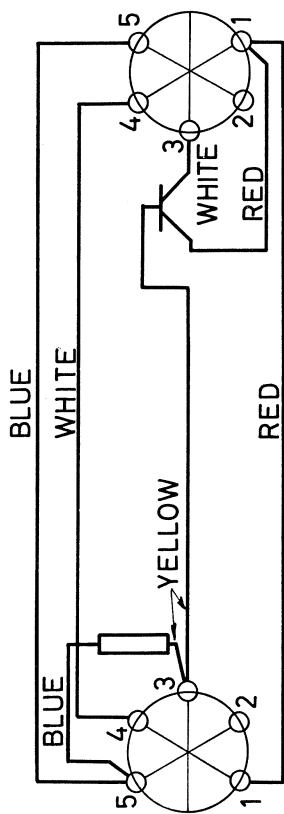
Battery case
Code No. 46094
Construction No. 21368



Cord reel
Code No. 46108
Construction No. 30466



Amplifier
 Code No. 46124
 Construction No. 21462



Collector to terminal no.1 Sheath the bare wire with red PVC-hose.

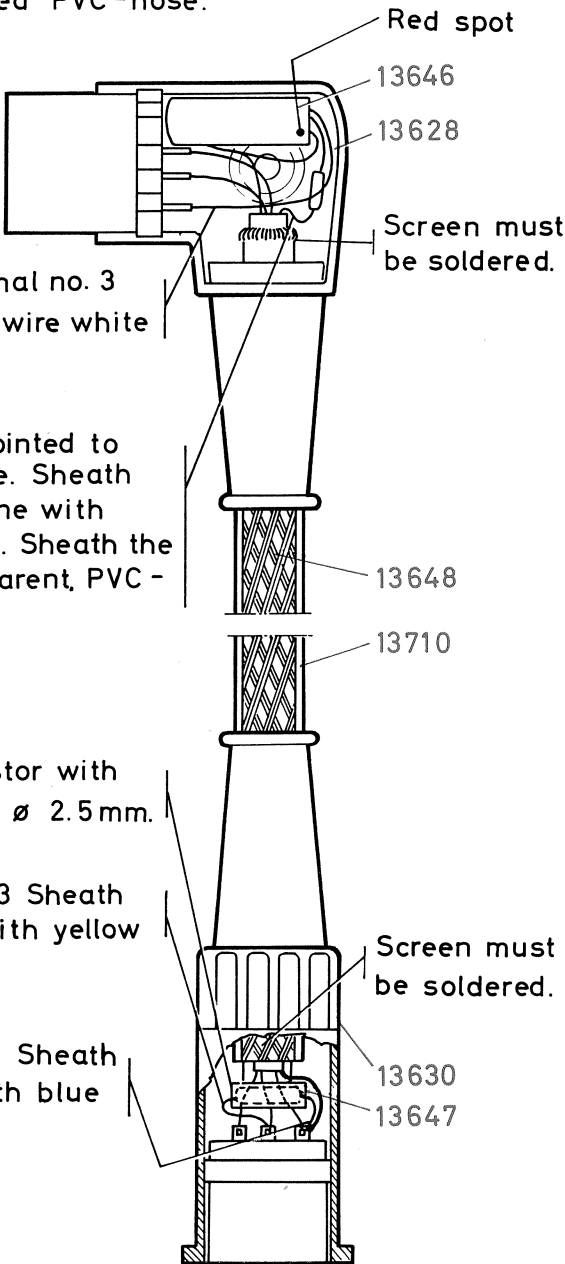
Emitter to terminal no. 3 Sheath the bare wire white PVC-hose.

Base line to be jointed to yellow cable wire. Sheath the bare base line with yellow PVC-hose. Sheath the joint with transparent, PVC - hose, ø 2 mm.

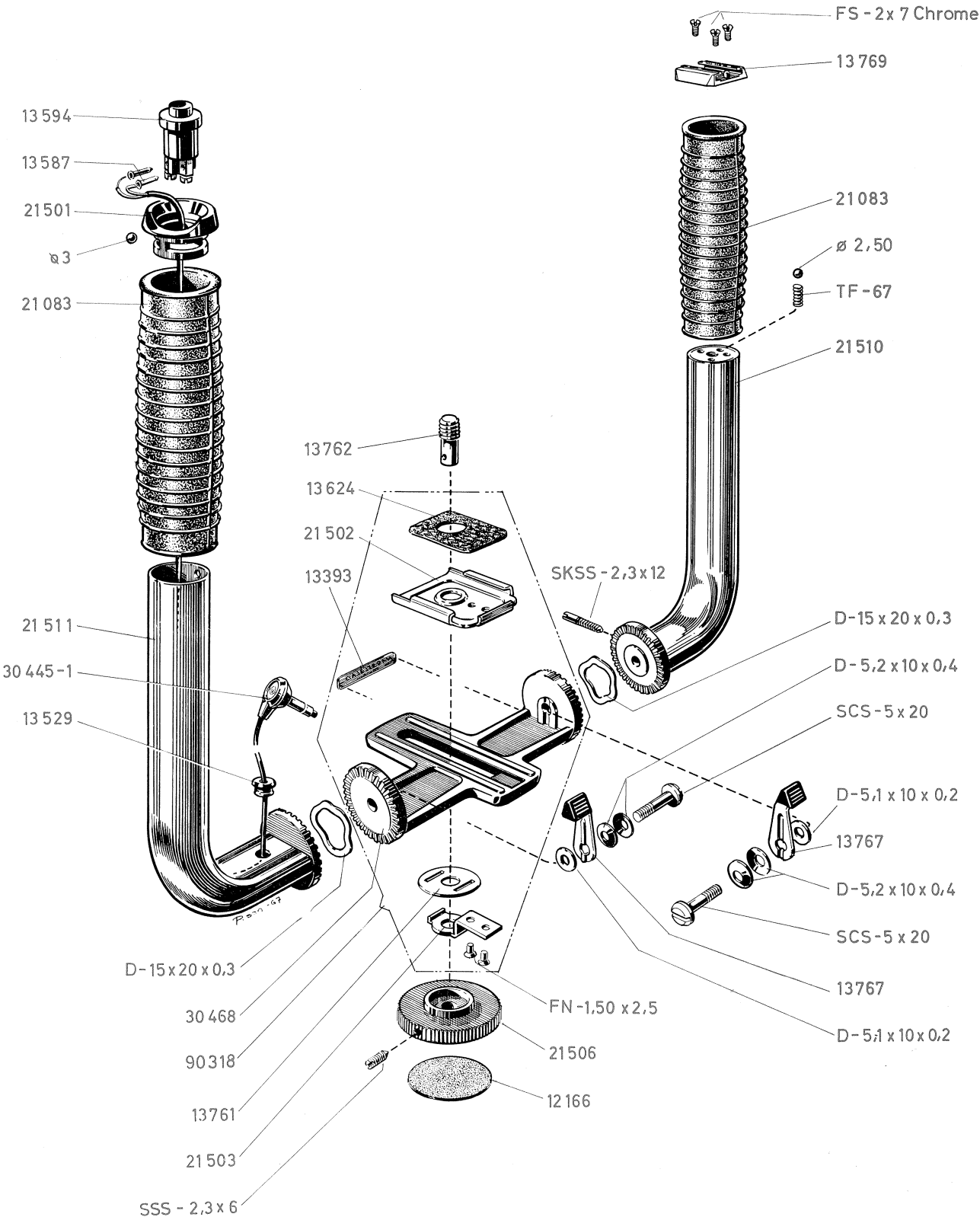
Sheath the resistor with black PVC-hose, ø 2.5mm.

To terminal no. 3 Sheath the bare wire with yellow PVC-hose.

To terminal no. 5 Sheath the bare wire with blue PVC-hose.



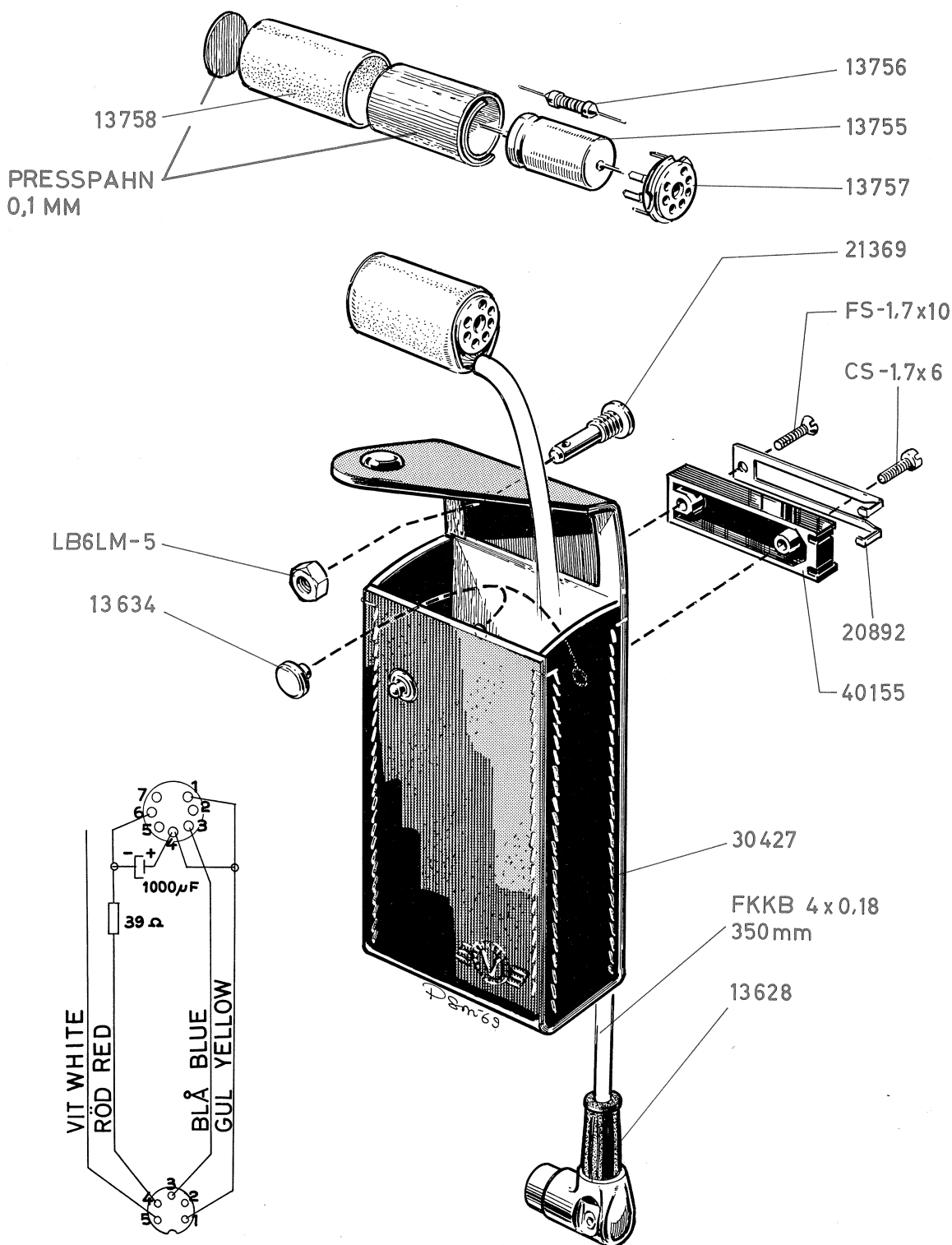
Double handgrip
 Code No. 46132
 Construction No. 30467



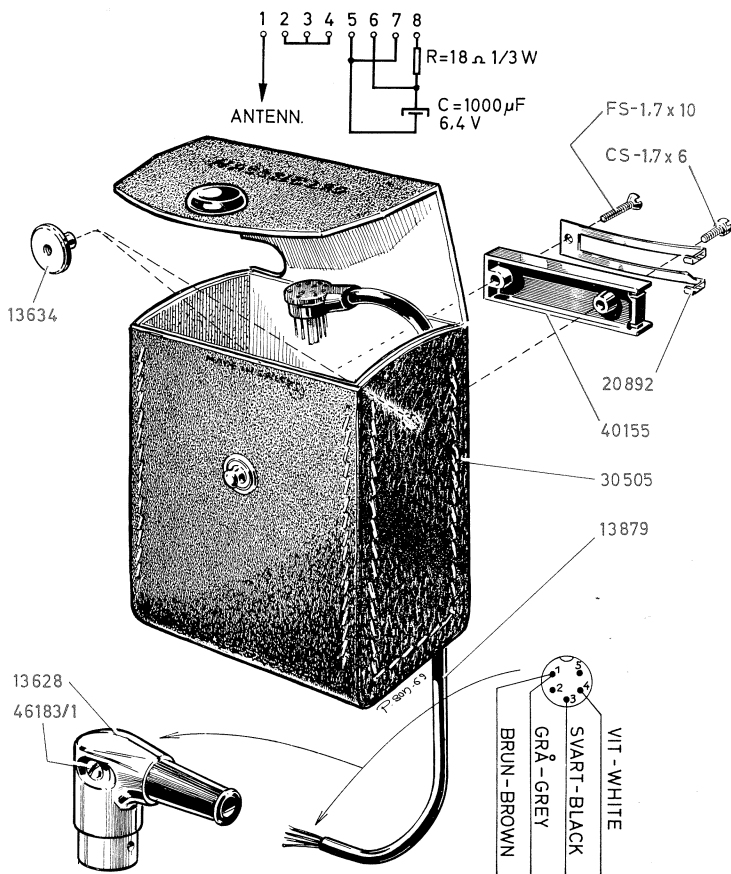
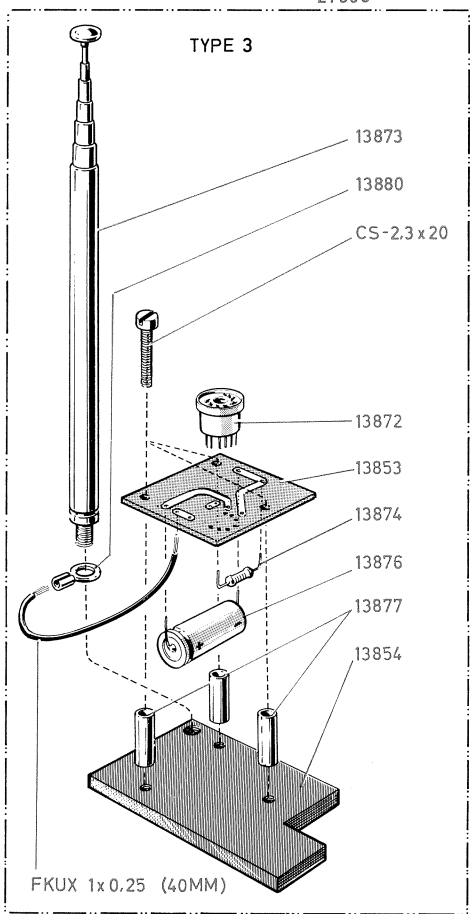
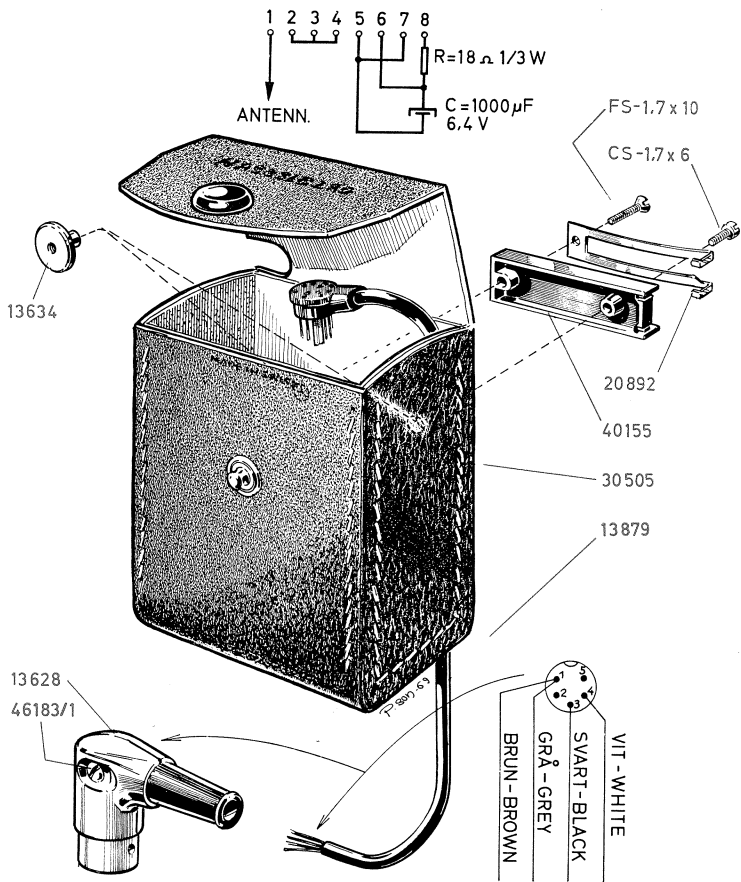
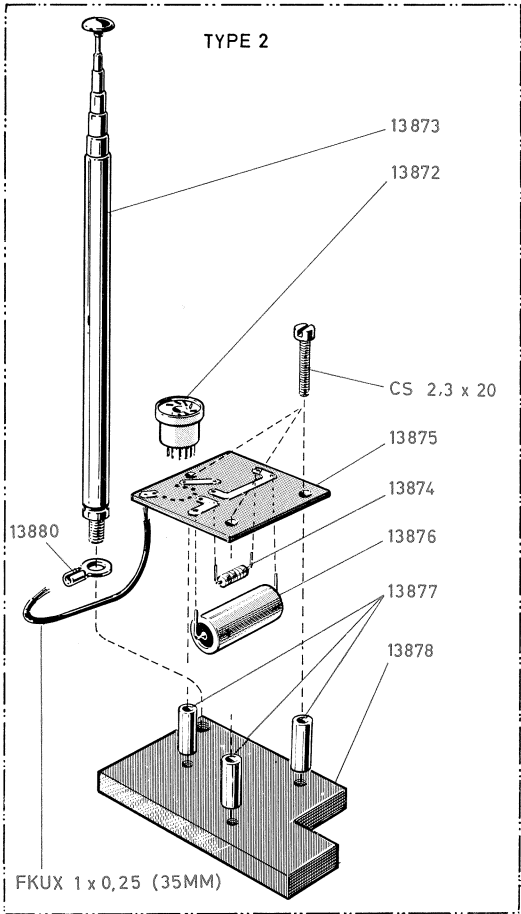
Case for radio, type 1

Code No. 46167

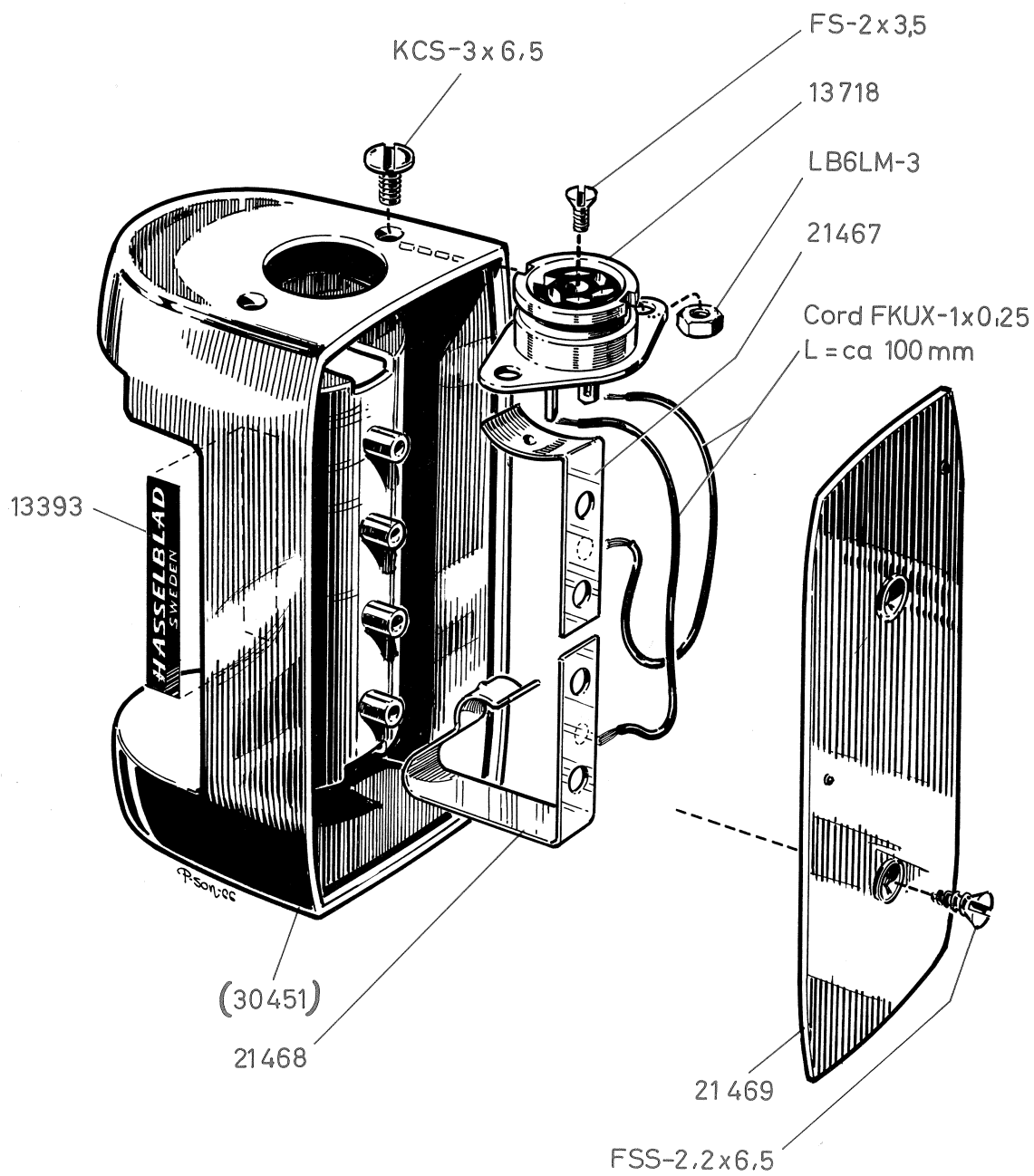
Construction No. 30428



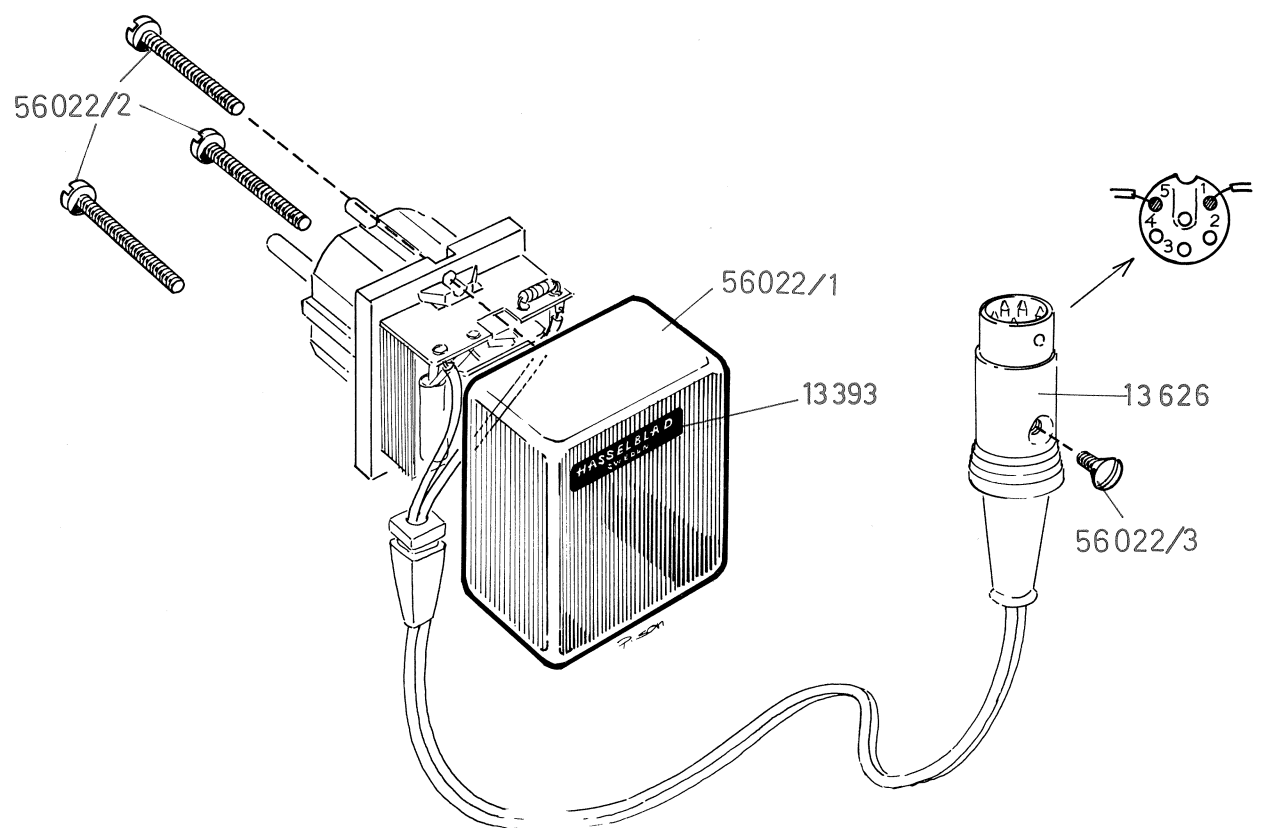
Radio case, type 2, type 3
 Code No. 46183
 Construction No. type 2 30506, type 3 30536



Battery compartment
Code No. 56014
Construction No. 30461



Recharge unit I
Code No. 56022
Construction No. 21362

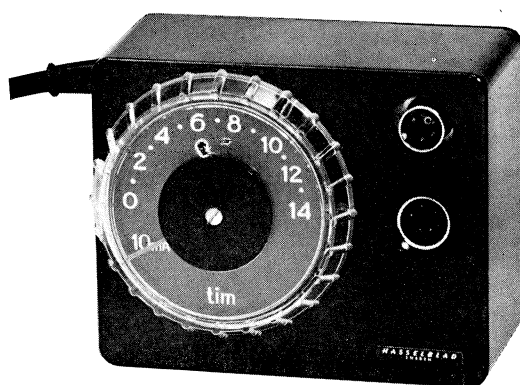


Recharge unit II
Code No. 56030
Construction No. 40220

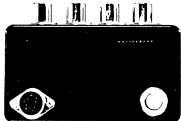
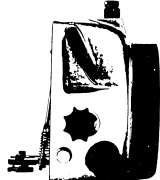
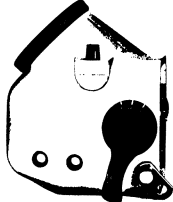
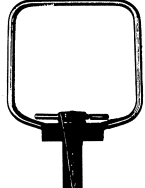


Only the wiring diagram will be printed.
It will be released later on this year.

Recharge unit III
Code No. 56103
Construction No.

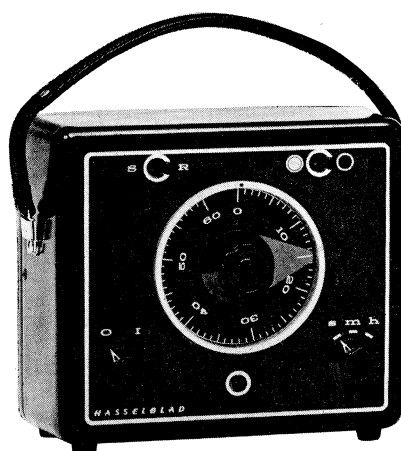


Only the wiring diagram will be printed.
It will be released later on this year.

61		Intervalometer II Intervallometer II Intervalometer II Intervallomètre II Apparecchio per lo scatto periodico di fotogrammi Mod. II Intervalómetro II
62		Command unit Parallellkopplingsinstrument Simultansteuereinheit Boîtier pour déclenchement simultané Congegno di accoppiamento in parallelo Instrumento Hasselblad para conexión paralelo
63		Underwater case, front section for 500C, SWC Undervattenshus, frandel för 500C, SWC Unterwassergehäuse, Vorderteil für 500 C, SWC Partie avant de caisson étanche pour 500C, SWC Cassa subacquea parte anteriore per 500 C, SWC Caja hermética, parte delantera, 500 C, SWC
64		Underwater case, rear section I with prism finder for 500C Undervattenshus, bakdel I med prisma för 500C Unterwassergehäuse, Rückteil I mit Prisma für 500C Partie arrière I de caisson étanche avec prisme pour 500C Cassa subacquea, parte I con prisma per 500C Caja hermética, para trasera I con prisma, 500C
65		Underwater case, rear section II for SWC Undervattenshus, bakdel II för SWC Unterwassergehäuse, Rückteil II für SWC Partie arrière II de caisson étanche pour SWC Cassa subacquea, parte II per SWC Caja hermética, parte trasera II con SWC
66		Lamp tube with reflector and bracket Lampstav med reflektor och fäste Stablampe mit Reflektor und Halterung Torche avec réflecteur et sabot de fixation Torcia con riflettore e staffa Soporte para lámpara flash con reflector y fijación
67		Accessories Tillbehör Zubehörteile Accessoires Accessori Accesorios
68		Platform Gunstock Axelstöd Schulterstütze Crosse L'impugnatura a fucile Apoyo de hombro
69		Cord Reel Kabeldosa Kabelhaspel Boîte à câble Avvolgicavo Devanadera de cable
70		Automatic diaphragm control unit Automatisk bländarstyrning Automatische Blendensteuerung Commande automatique du diaphragme Comando automatico del diaframma Controles automáticos de diafragma

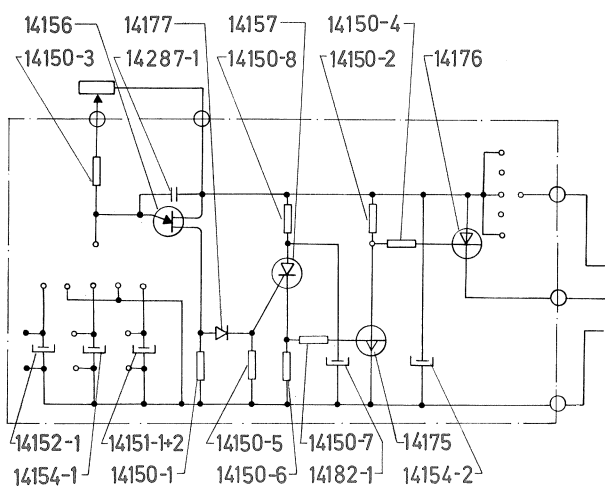
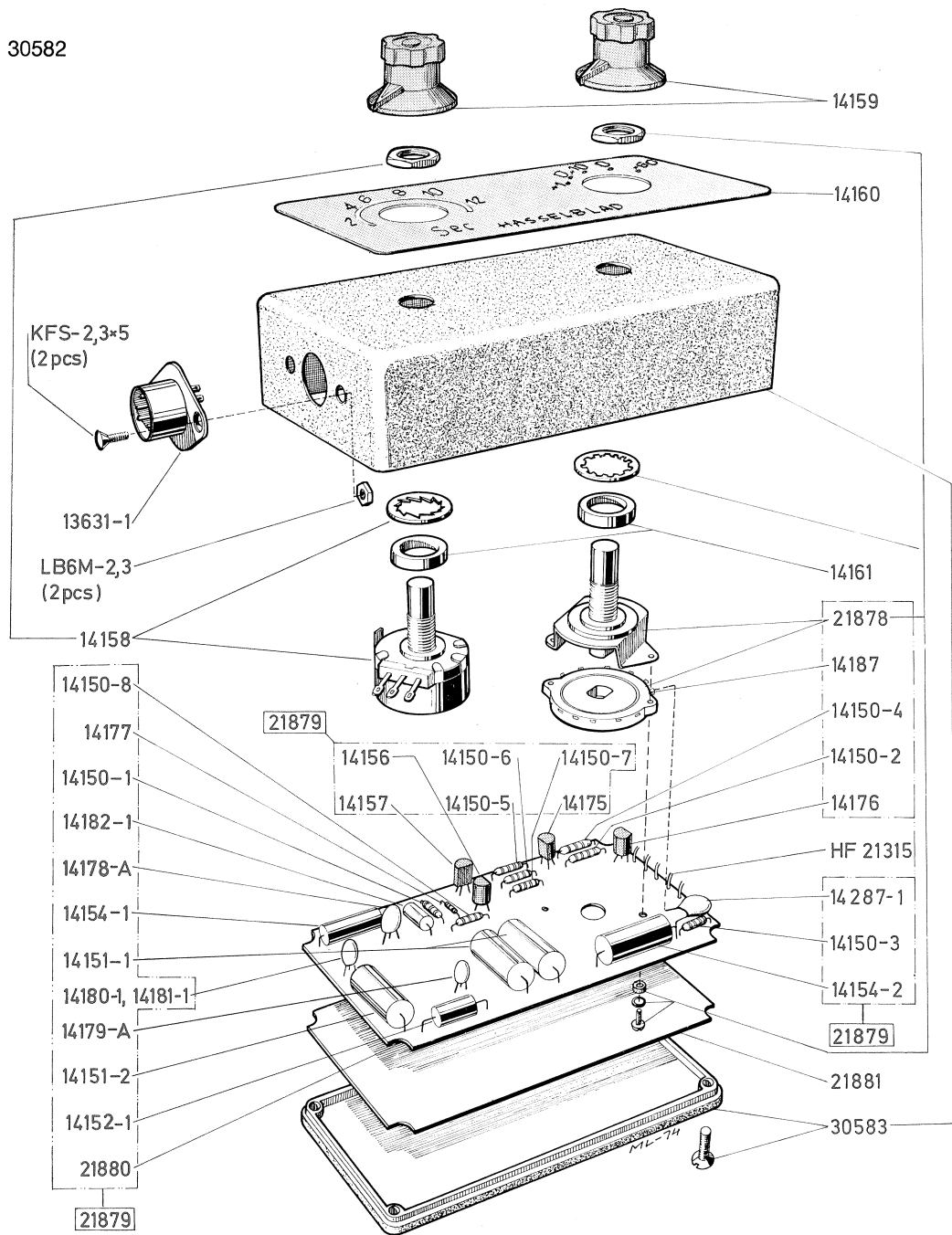
Timer
Code No. 56049
Construction No. 40221

61



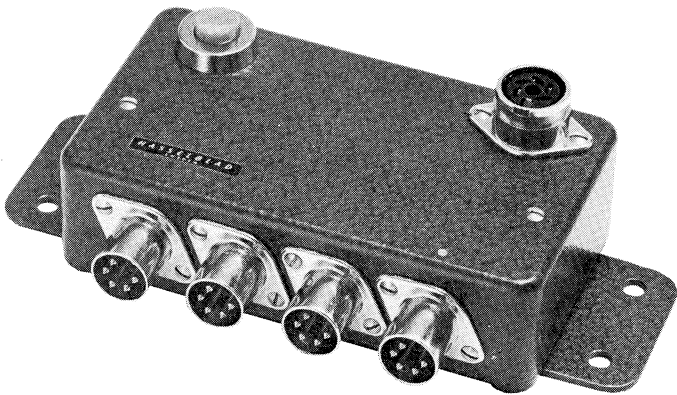
Only the wiring diagram will be printed.
It will be released later on this year.

Intervalometer II
Code No 46248
Construction No 30582



14178-1	0,68 μ F	35V
14178-2	1,0 μ F	35V
14178-3	2,2 μ F	25V
14178-4	4,7 μ F	10V
14179-1	6,8 μ F	20V
14179-2	10,0 μ F	16V
14179-3	22 μ F	6,3V
14179-4	3,3 μ F	35V
14180-1	33 μ F	10V
14181-1	100 μ F	10V

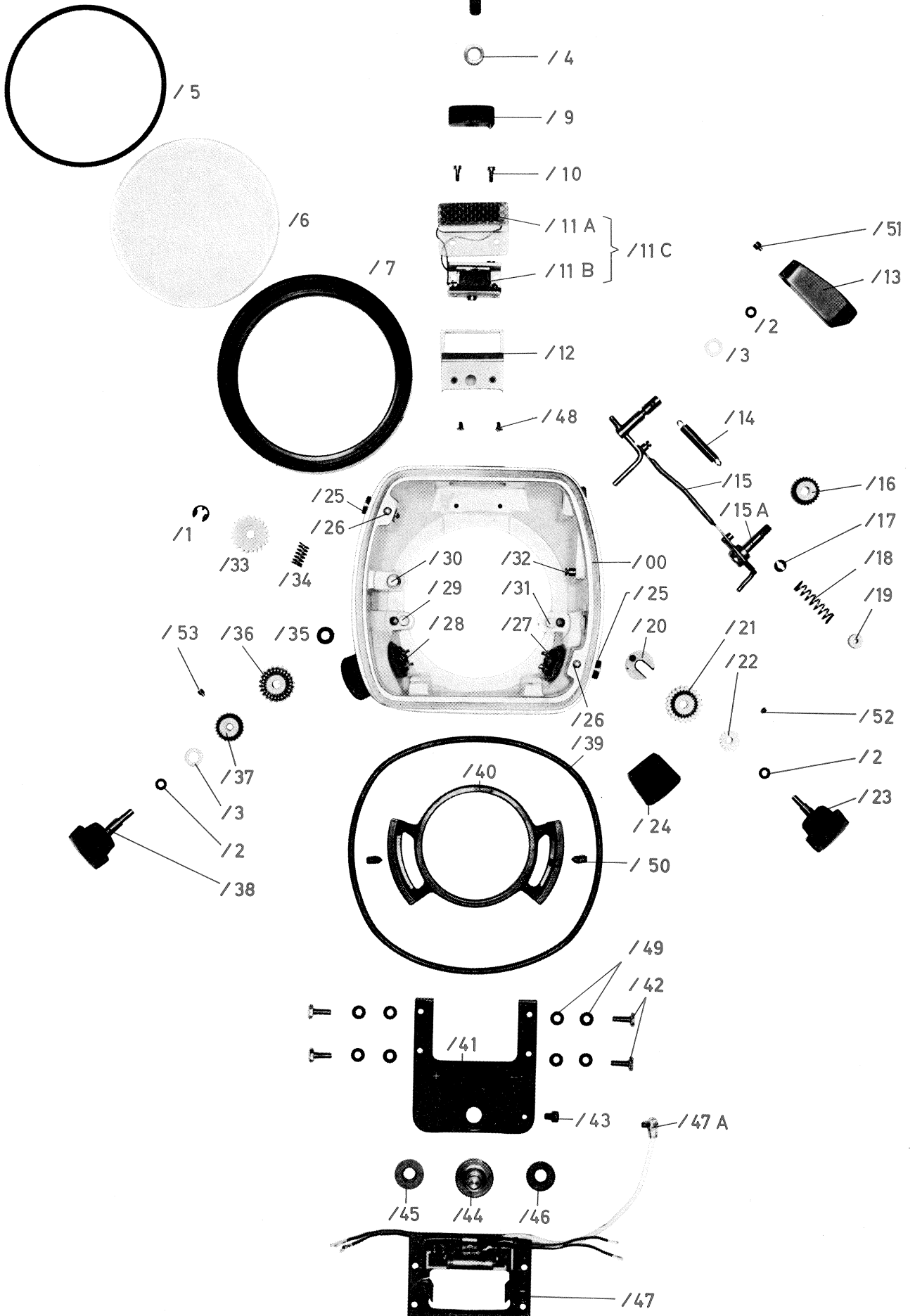
Command unit
Code No. 56138
Construction No.



Only the wiring diagram will be printed.
It will be released later on this year.

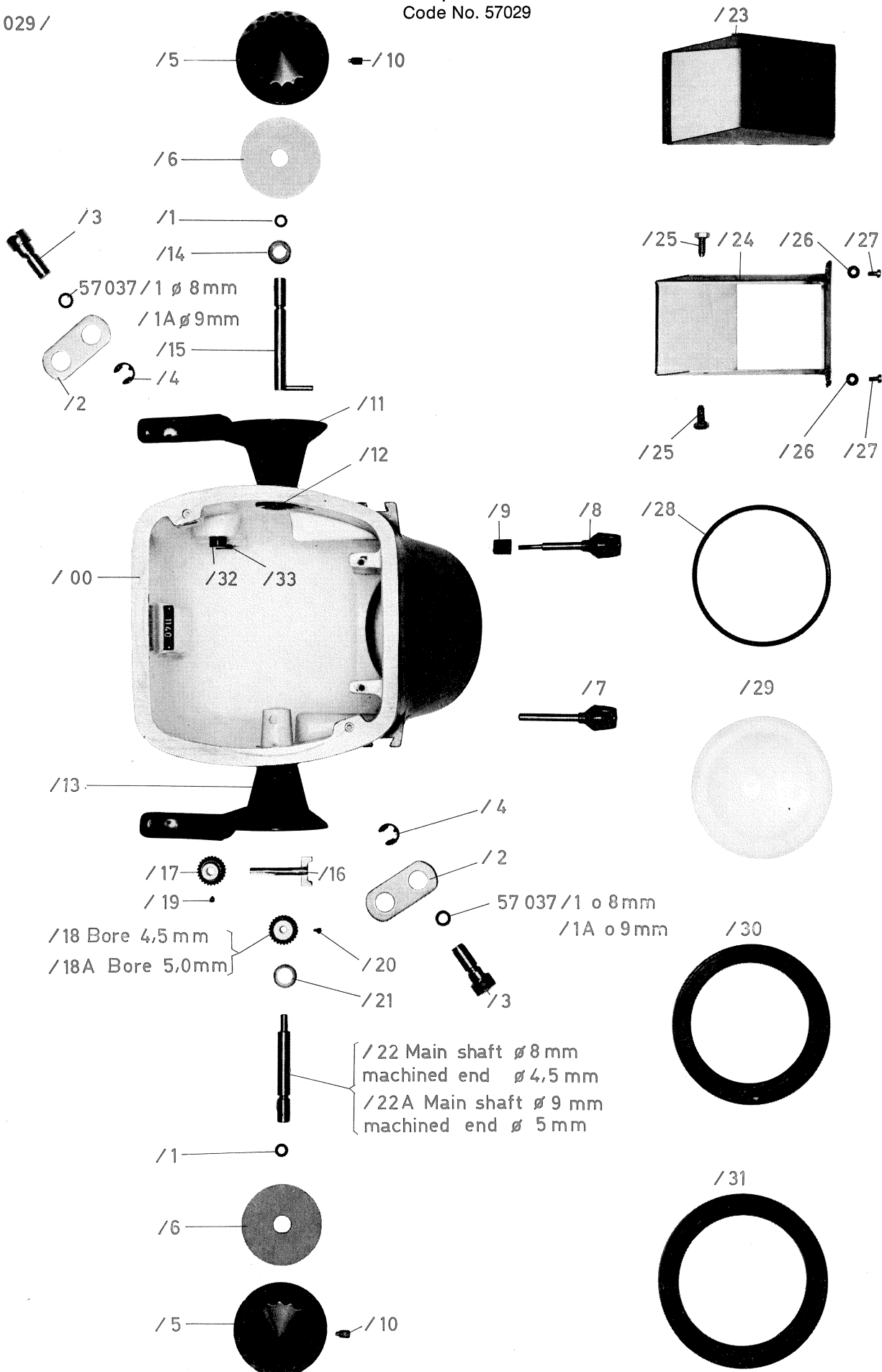
57 010 /

Underwater case, front section for 500C, SWC
Code No. 57010



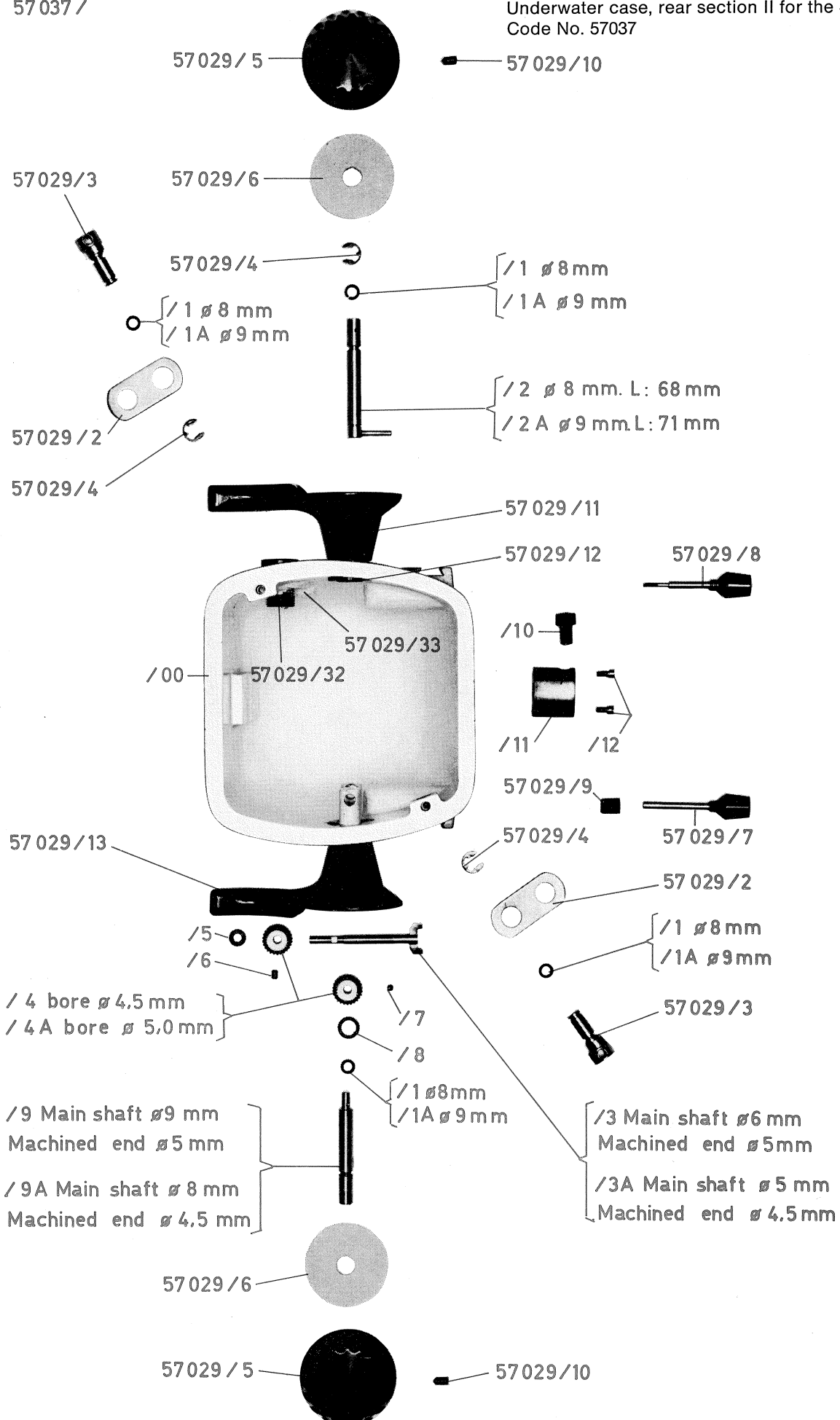
57029 /

Underwater case, rear section I
with prism finder for 500C
Code No. 57029



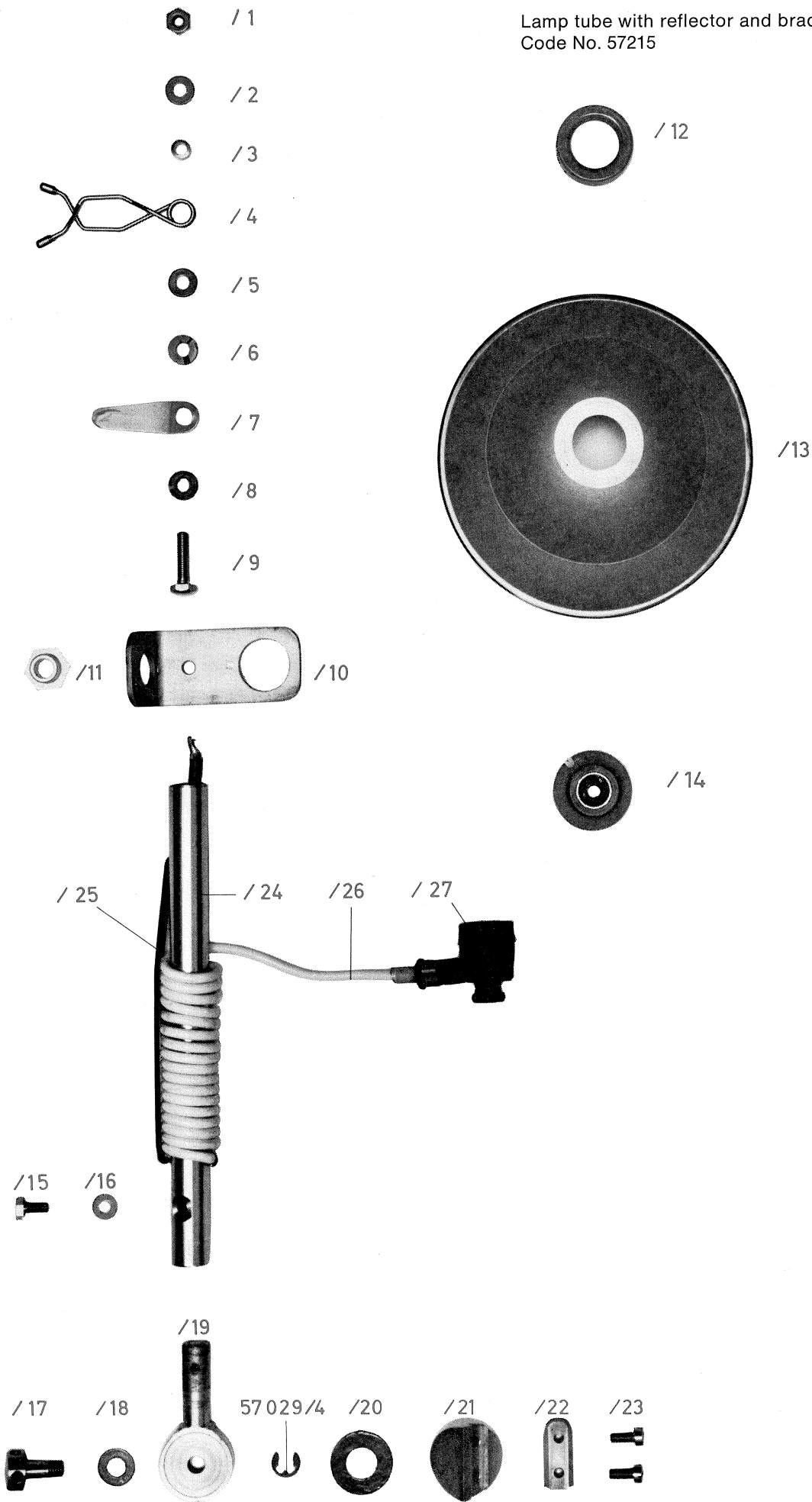
57037 /

Underwater case, rear section II for the SWC
Code No. 57037

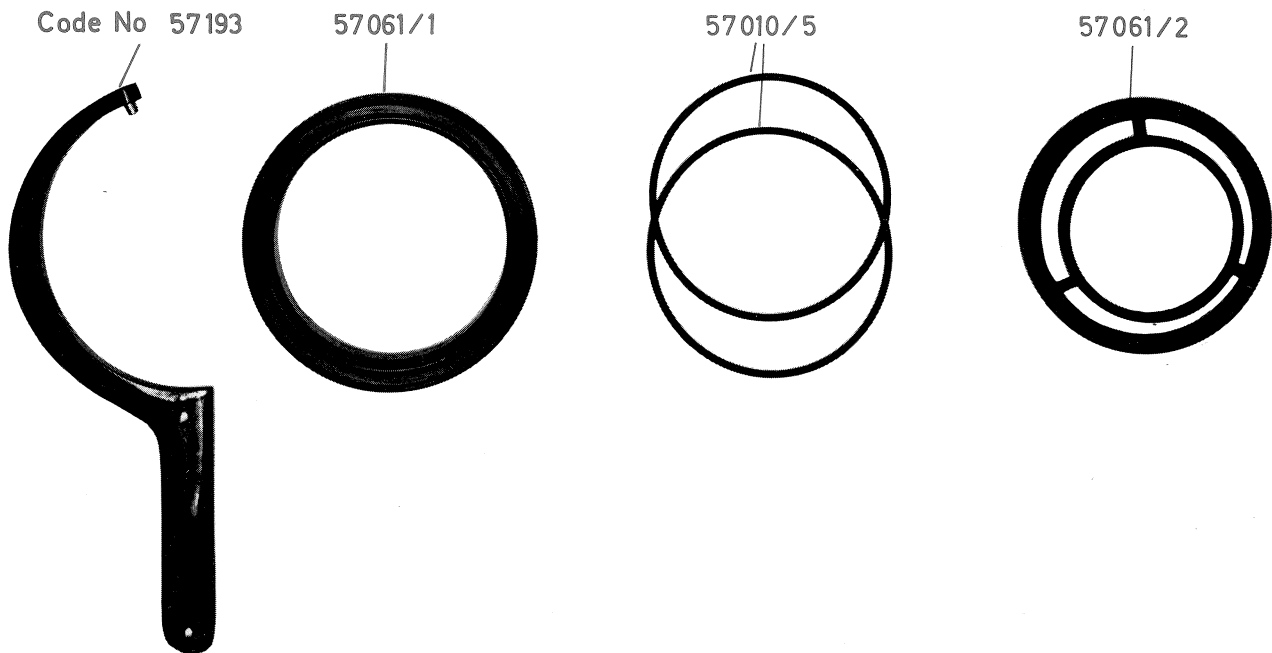
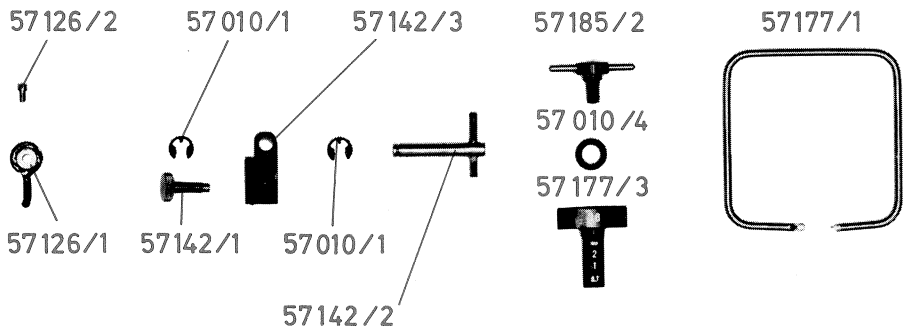
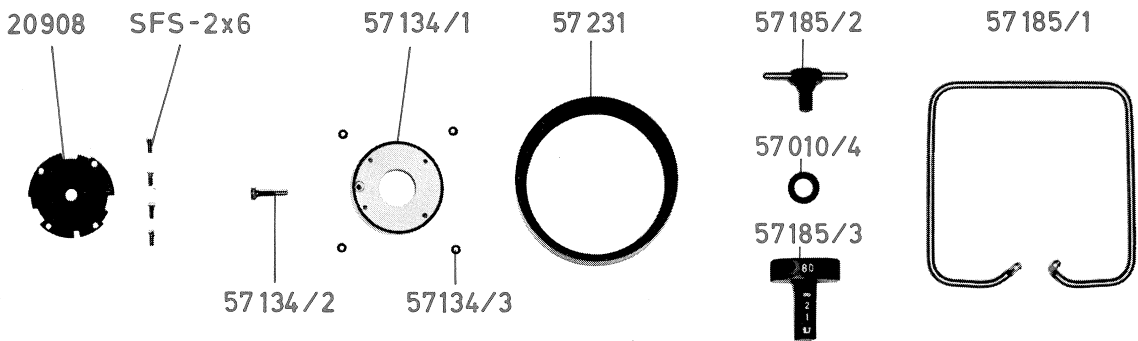
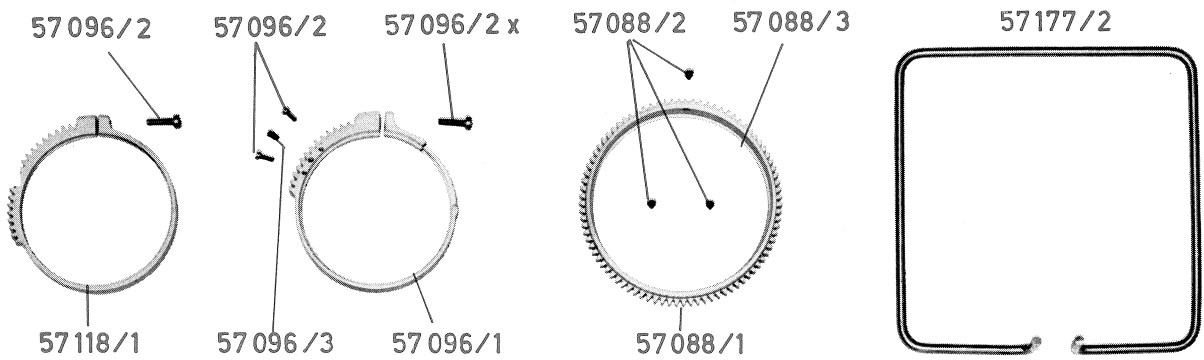


57215 /

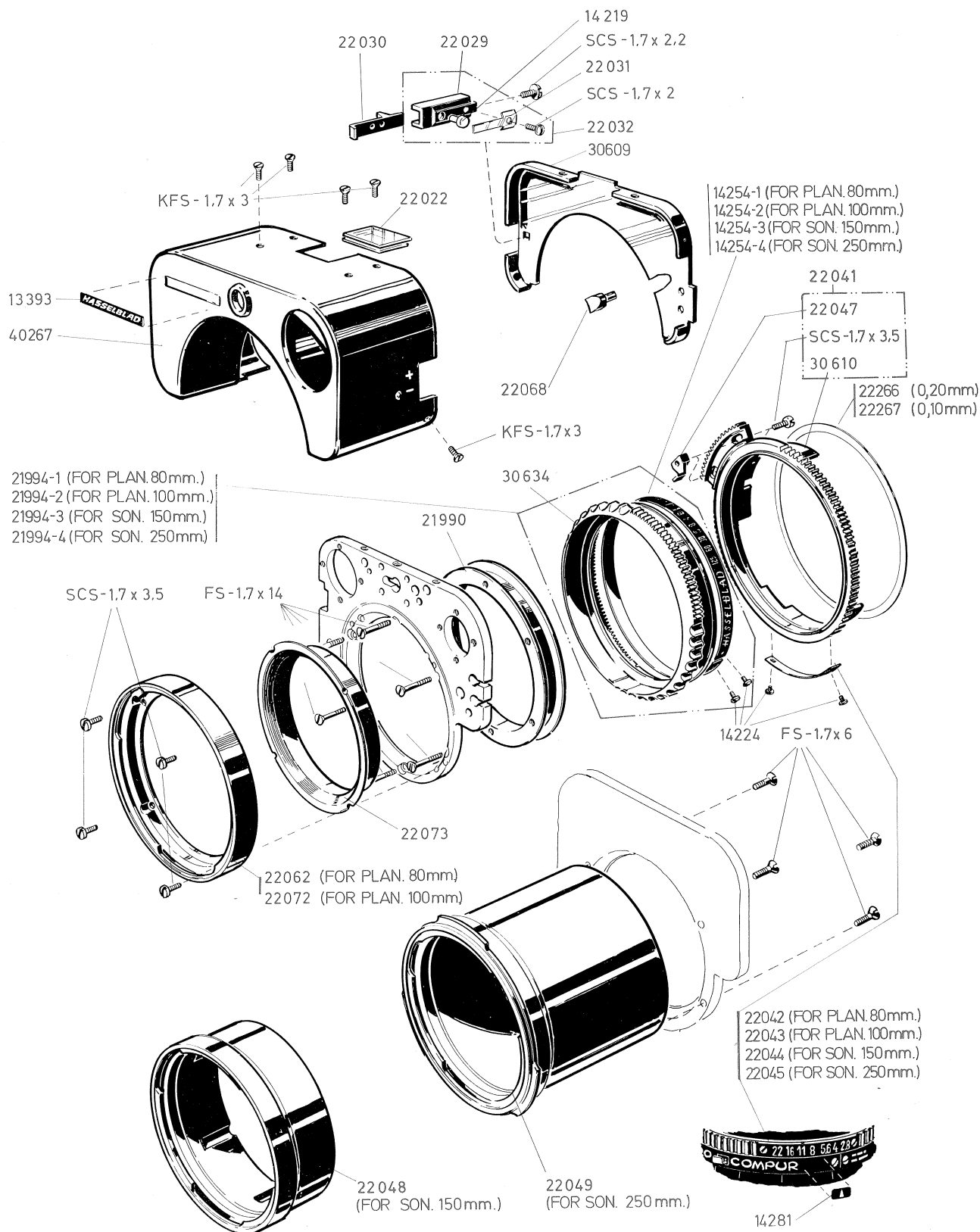
Lamp tube with reflector and bracket
Code No. 57215



Hasselblad underwater case, accessories



Automatic diaphragm control unit
 Code No 40347 Planar 2,8/80
 40355 Planar 3,5/100
 40371 Sonnar 4/150
 40398 Sonnar 5,6/250



Specification for

H A S S E L B L A D[®]

70

Automatic diaphragm control unit

Pcs	Part No.	Description	Price (each)	Next assy.	Remark
1	13393	Name Plate		40269-72	
1	14219	Contact Pin		22032	
4	14224	Screw		21994	40269-72
1	14254-1	Engraving Strip		21994	For Planar 2,8/80
1	14254-2	Engraving Strip		21994	For Planar 3,5/100
1	14254-3	Engraving Strip		21994	For Sonnar 4/150
1	14254-4	Engraving Strip		21994	For Sonnar 5,6/250
1	14281	Index		40269-72	
1	21990	Ring		40269-72	
1	21994-1	Shutter speed setting ring		40269	For Planar 2,8/80
1	21994-2	Shutter speed setting ring		40270	For Planar 3,5/100
1	21994-3	Shutter speed setting ring		40271	For Sonnar 4/150
1	21994-4	Shutter speed setting ring		40272	For Sonnar 5,6/250
1	22022	Window		40269-72	
1	22029	Guide		22032	
1	22030	Switch		40269-72	
1	22031	Spring		22032	
1	22032	Switch, compl.		40269-72	
1	22041	Diaphragm ring, compl.		40269-72	
1	22042	Engraving Strip		40269	For Planar 2,8/80
1	22043	Engraving Strip		40270	For Planar 3,5/100
1	22044	Engraving Strip		40271	For Sonnar 4/150
1	22045	Engraving Strip		40272	For Sonnar 5,6/250
2	22047	Carrier Plate		22041	
1	22048	Front Tube		40271	For Sonnar 4/150
1	22049	Front Tube		40272	For Sonnar 5,6/250
1	22062	Front Bayonet ring		40269	For Planar 2,8/80
1	22068	Sync post extension		40269-72	
1	22072	Front Bayonet ring		40270	For Planar 3,5/100
1	22073	Ring		40269-70	
1	22266	Shim		40269-72	0,20 mm
1	22267	Shim		40269-72	0,10 mm
1	30609	Rear Cover		40269-72	
1	30610	Diaphragm Ring		22041	
1	30634	Ring		21994	
1	40267	Shell		40269-72	
1	40269	Compl unit w. lens		—	Planar 2,8/80
1	40270	Compl unit w. lens		—	Planar 3,5/100
1	40271	Compl unit w. lens		—	Sonnar 4/150
1	40272	Compl unit w. lens		—	Sonnar 5,6/250
4	FS-1, 7×6	Screw		40271-72	
6	FS-1, 7×14	Screw		40269-72	
8	KFS-1, 7×3	Screw		40269-72	
1	SCS-1, 7×2	Screw		22032	
1	SCS-1, 7×2,2	Screw		40269-72	
6	SCS-1, 7×3,5	Screw		40269-70	22041 (2 pcs)

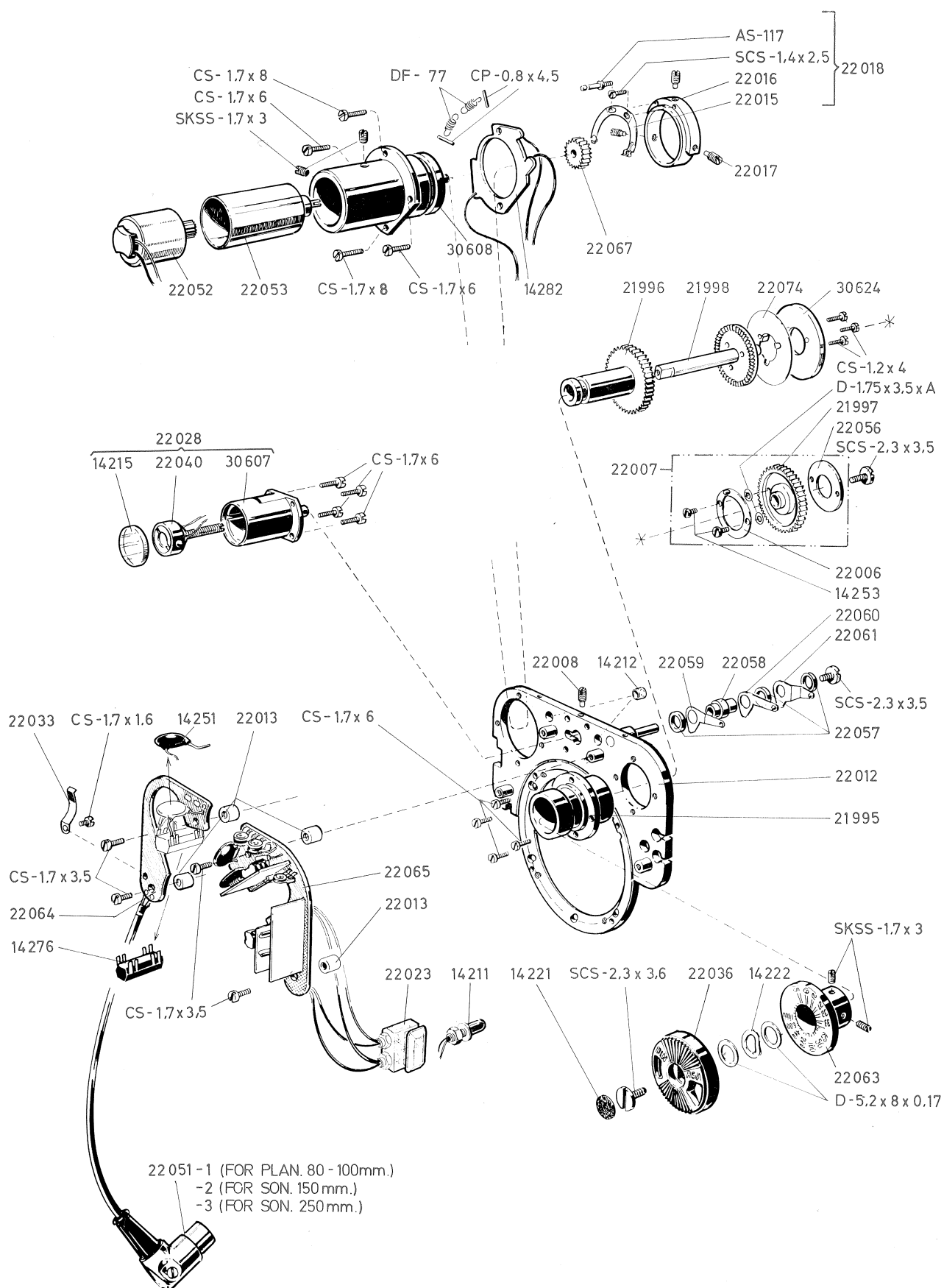
Specification for

H A S S E L B L A D®

Automatic diaphragm control unit

Pcs	Part. No.	Description	Price (each)	Next assy.	Remark
2	14211	Indicator Light		40268	
2	14212	Bushing		40268	
1	14215	Window		22028	
1	14221	Leather		40268	
1	14222	Spring washer		40268	
2	14251	Capacitor		22064-65	
2	14253	Screw		22007	
1	14276	Relay		22064	
1	14282	Contact plate		40268	
1	21995	Hub		40268	
1	21996	Gear, lower		40268	
1	21997	Gear, upper		22007	
1	21998	Shaft		40268	
1	22006	Contact ring		22007	
1	22007	Gear, upper compl		40268	
1	22008	Screw		40268	
1	22012	Mounting plate		40268	
4	22013	Insulating bush		40268	
1	22015	Contact spring		22018	
1	22016	Housing		22018	
3	22017	Screw		40268	
1	22018	Housing compl		40268	
1	22023	Light-pipe		40268	
1	22028	Photo-cell compl		40268	
1	22033	Contact spring		22064	
1	22036	DIN-ASA knob		40268	
1	22040	Photo-cell		22028	
1	22051-1	Cable		40269-70	For Planar 80-100
1	22051-2	Cable		40271	For Sonnar 4/150
1	22051-3	Cable		40272	For Sonnar 5,6/250
1	22052	Motor		22233	
1	22053	Gearbox		22233	
1	22056	Contact washer		22007	
3	22057	Spacer		40268	
1	22058	Spacer		40268	
1	22059	Wiper, lower		40268	
1	22060	Wiper, upper		40268	
1	22061	Wiper		40268	
1	22063	DIN-ASA dial		40268	
1	22064	Printed circuit, motor		40268	
1	22065	Printed circuit, compl		40268	
1	22067	Gear with friction coupling		30611	
1	22074	Contact plate		22011	
1	22233	Motor + Gearbox		30611	
1	30607	Housing		22028	
1	30608	Motor housing		30611	
1	30611	Motor housing compl		40268	
1	30624	Carbon track		40268	
1	40268	Sub assy	×	40269-72	Not supplied
1	AS-117	Screw		22018	

Automatic diaphragm control unit



Specification for

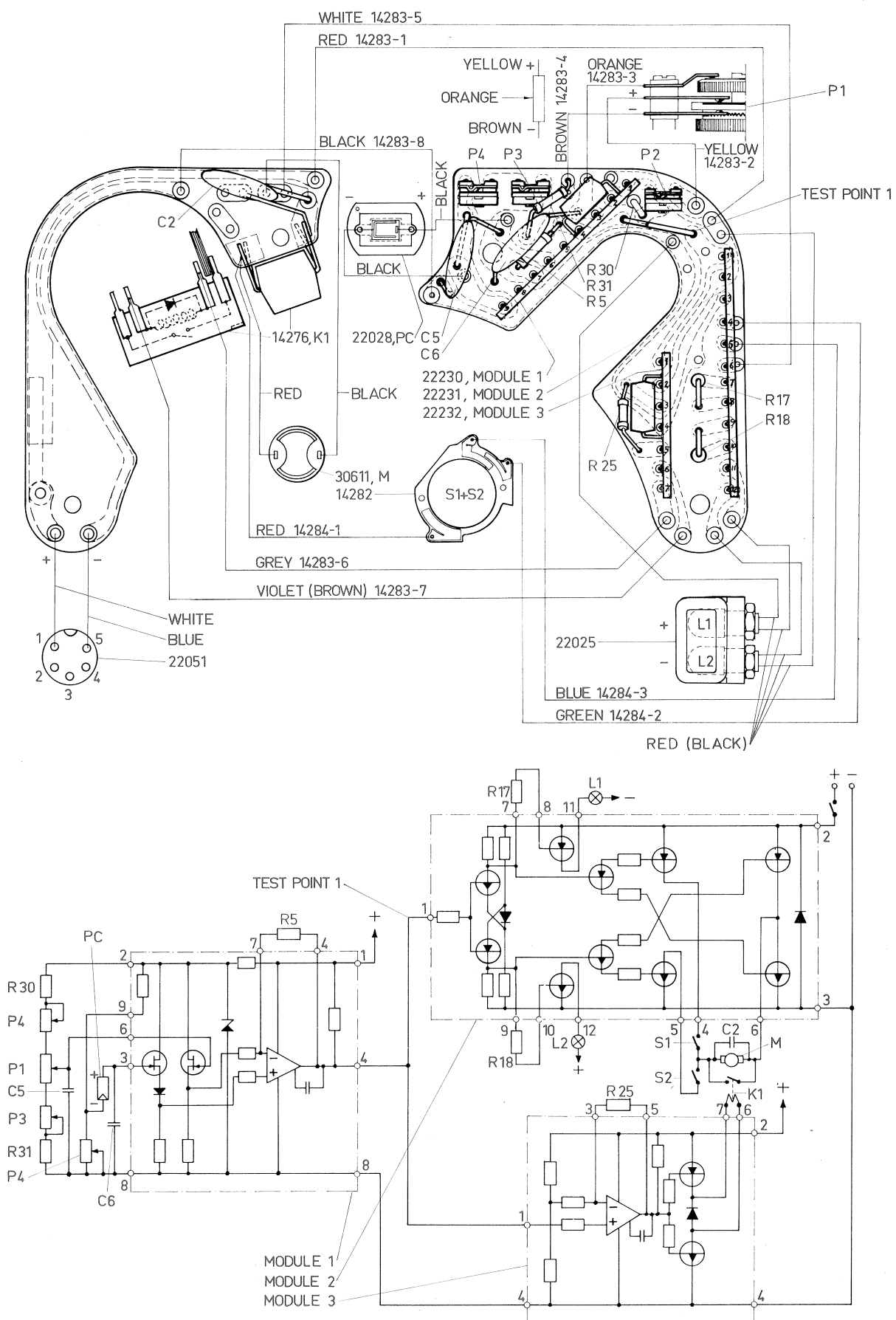
H A S S E L B L A D[®]

70 B

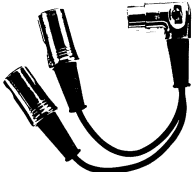
Automatic diaphragm control unit

Pcs	Part No.	Description	Price (each)	Next assy.	Remark
1	14276	Relay		22064	K 1
1	14282	Contact Plate		40268	S 1 + S2 2
1	14283-1	Cable		22065	Red, 90 mm
1	14283-2	Cable		22065	Yellow, 65 mm
1	14283-3	Cable		22065	Orange, 60 mm
1	14283-4	Cable		22065	Brown, 55 mm
1	14283-5	Cable		22065	White, 100 mm
1	14283-6	Cable		22065	Grey, 110 mm
1	14283-7	Cable		22065	Violet, 130 mm
1	14283-8	Cable		22065	Black, 65 mm
1	14284-1	Cable		14282	Red, 85 mm
1	14284-2	Cable		14282	Green, 100 mm
1	14284-3	Cable		14282	Blue, 100 mm
1	22025	Light-Pipe compl		40268	PC
1	22028	Photo-cell compl		40263	
1	22051	Cable		40269-72	
1	22230	Module 1		22065	
1	22231	Module 2		22065	
1	22232	Module 3		22065	
1	30611	Motor + gearbox + housing		40268	

Automatic diaphragm control unit



71



Multiple connector
Grenanslutning
Zweiwegstecker
Prise multiple
Raccordo multiplo
Bifurcación

72



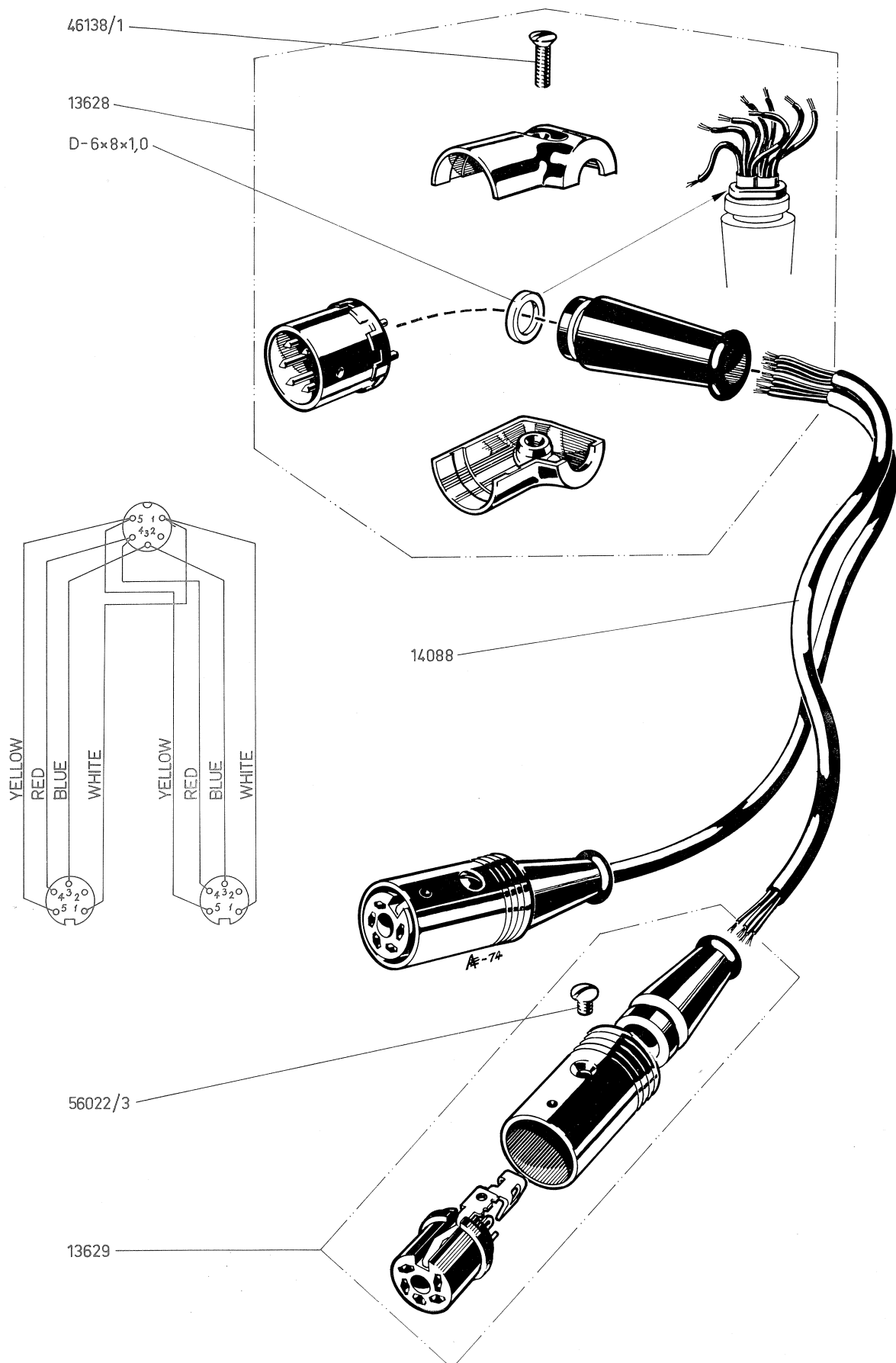
Battery compartment 2
Batterifack 2
Akku-Ladefach 2
Berceau 2 pour accumulateur
Contentitore per batterie n° 2
Compartimento de baterías 2

73

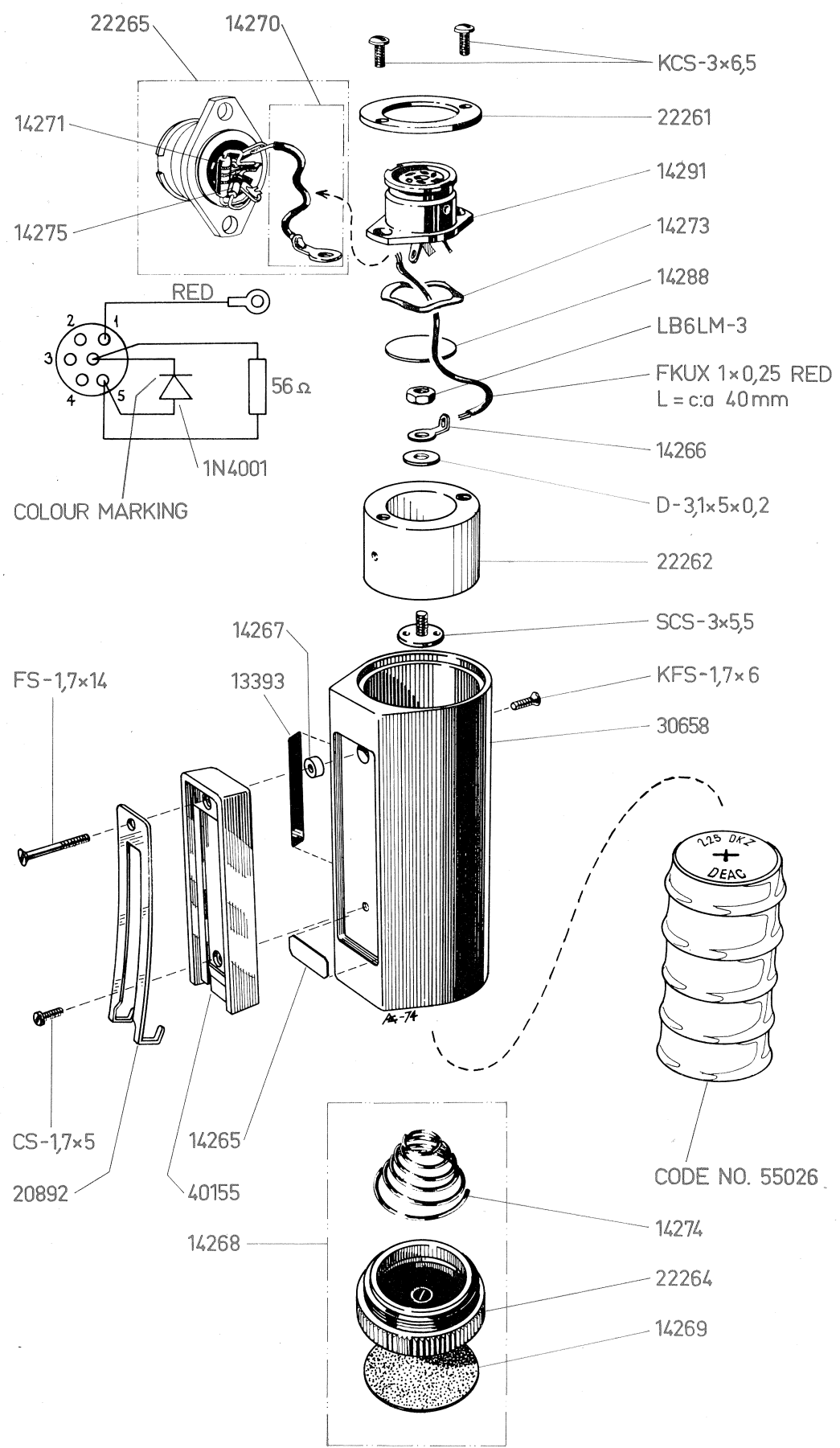


Prism viewfinder HC-4
Prismasökare HC-4
Prismensucher HC-4
Viseur à prisme HC-4
Mirino prismatico HC-4
Visor de prisma HC-4

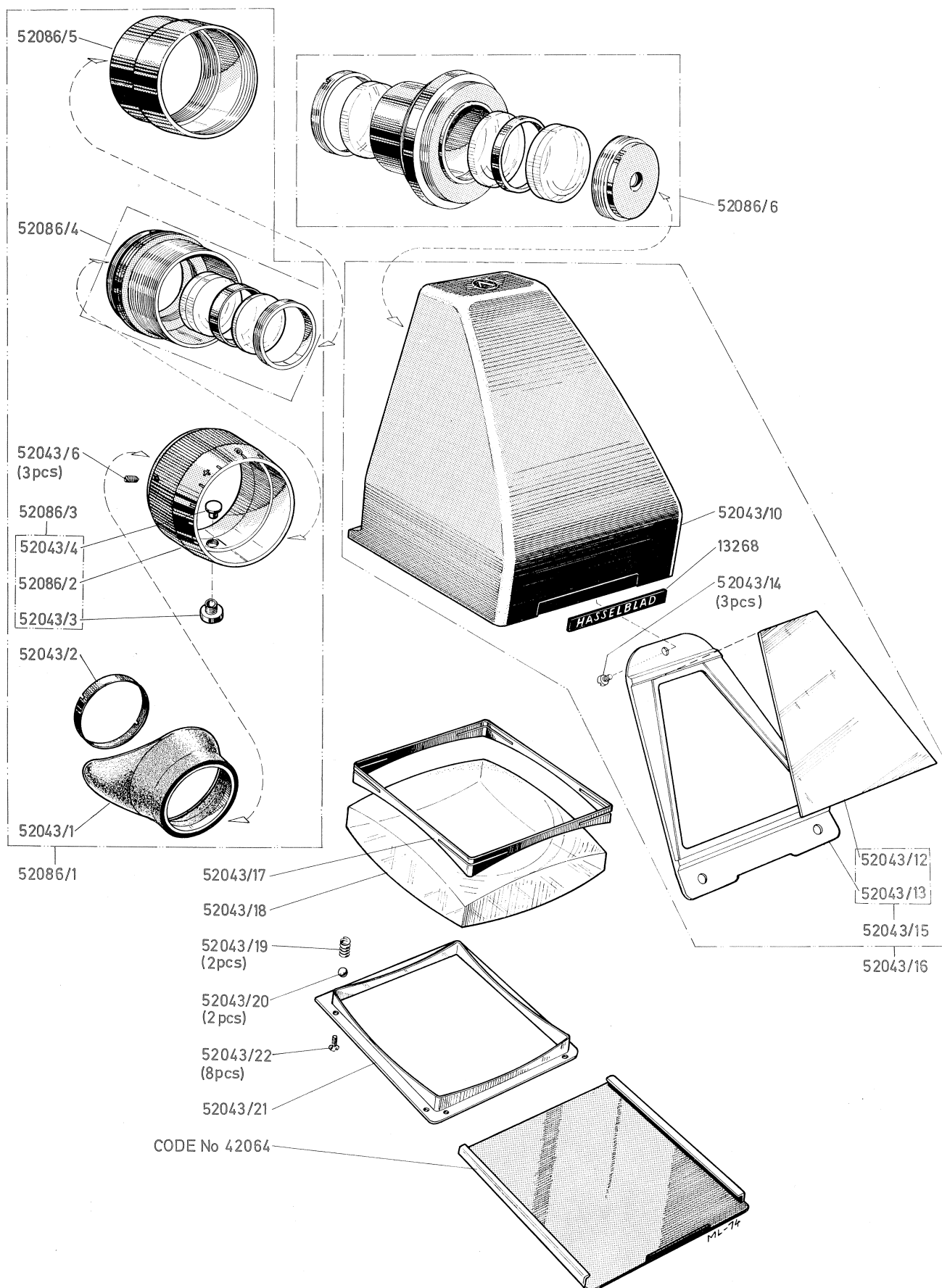
Multiple connector
 Code No 46264
 Construction No 22286



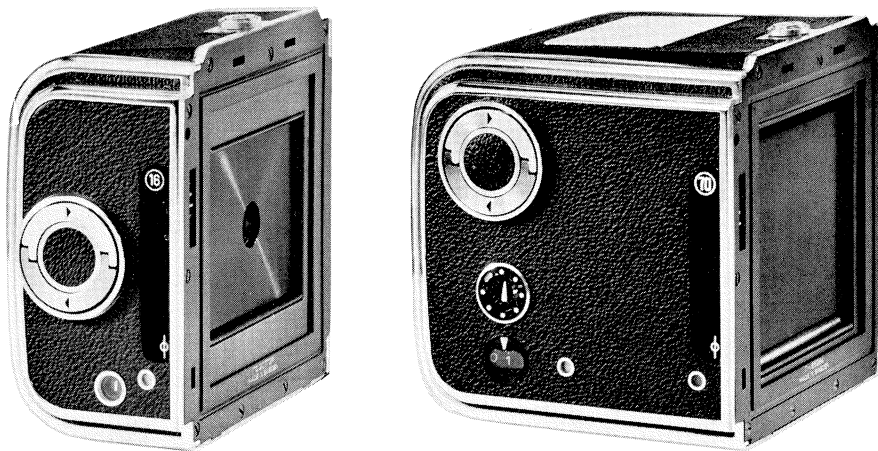
Battery compartment 2
Code No 43133
Construction No 30659



Prism viewfinder HC-4
 Code No 52086
 Construction No 30672



SPARE PARTS CATALOGUE
and
REPAIR MANUAL
HASSELBLAD MAGAZINES



H A S S E L B L A D
SWEDEN



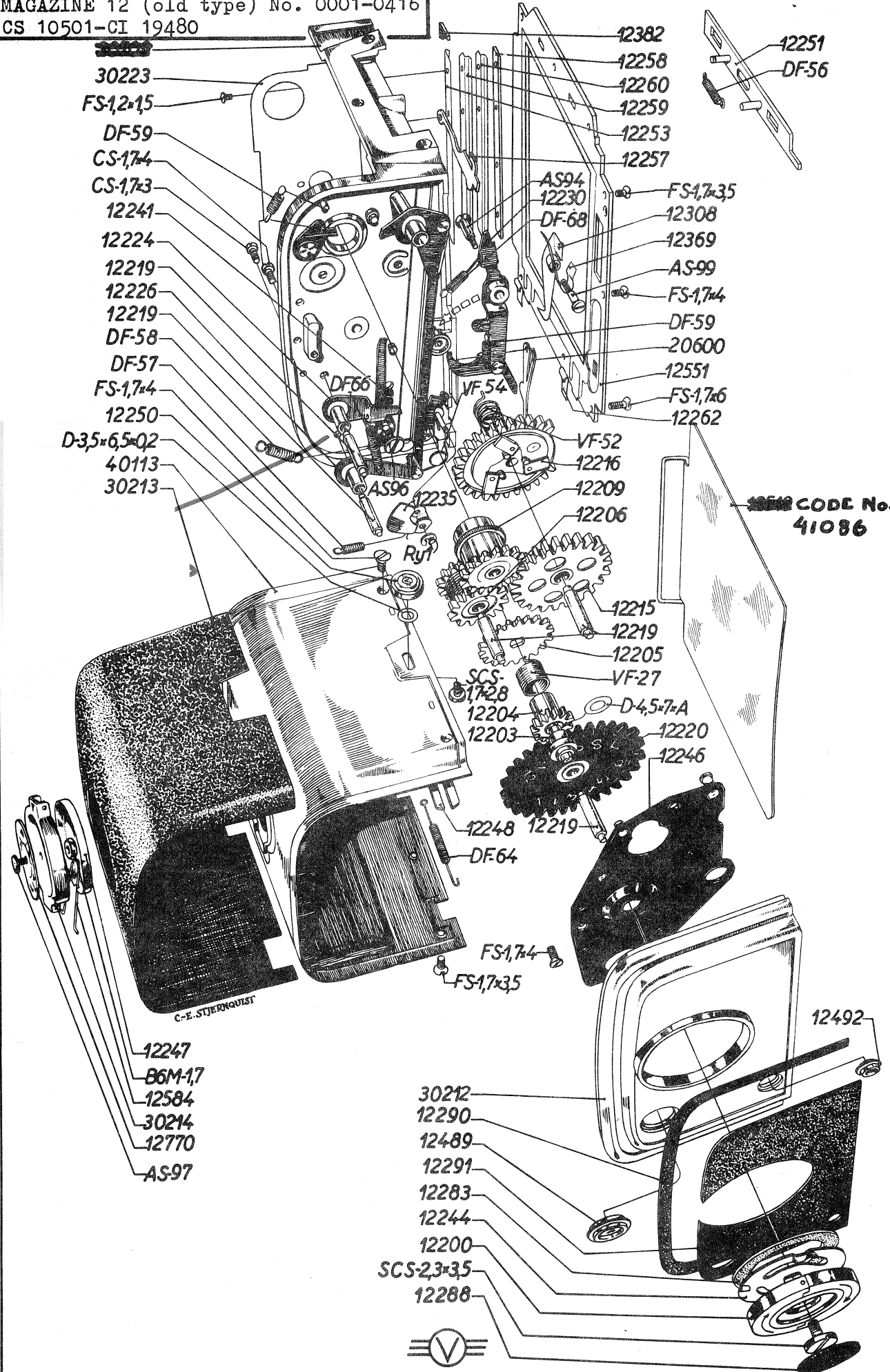
MAGAZINE 12 (old type) No. 0001 - 0416
No. CS 10501 - CI 19480

30214	30213		
12770	20619		
AS-97	12247		
B6M-1.7	12248	40113	
	12250	30223	
	12584	20600	
	D-3.5×6.5×0.2		
	SCS-1.7×2.8	12200	
	12203	12206	
	12204	12209	
	12205	12214	
	D-4.5×7×A	12219	(4)
	VF-27	12220	
		12224	
		12226	
	DF-59	12230	
	DF-68	12235	
		12241	
		12244	
		12246	
		12251	
		12253	
		12257	
		12258	
		12259	
30212	12260		
12290	12262	(2)	
12291	12280		
12489	12283		40114
12492	12288		
	12308		
	12369		
	12382	(4)	
12215	12519	= Please order Code No. 41086	
12216	12542		
12219	12551		
	AS-94		
	AS-96		
	AS-99		
	CS-1.7×3	(2)	
	CS-1.7×4		
	DF-56		
	DF-57		
	DF-58		
	DF-59		
	DF-64		
	DF-66		
	FS-1.2×1.5	(4)	
	FS-1.7×3.5	(4)	
	FS-1.7×4	(11)	
	FS-1.7×6		
	Ry-1		
	SCS-2.3×3.5		
	VF-52		



HASSELBLAD

MAGAZINE 12 (old type) No. 0001-0416
CS 10501-CI 19480



2

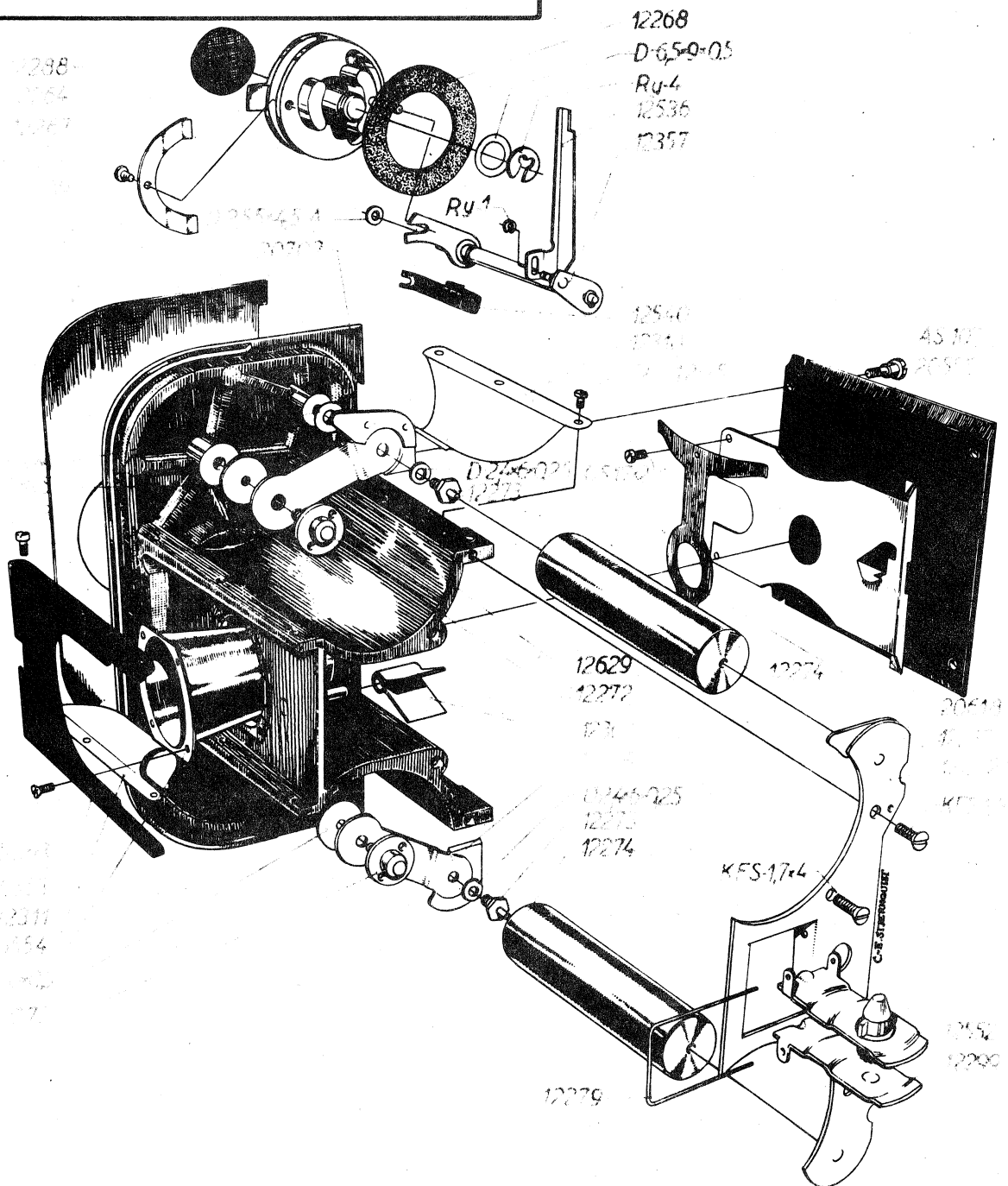
SPOOLHOLDER No. 0001 - 0416
(old type) No. CS 10501 - CP 16266

	20553	
	20554	
12237	20702	
12289		
12267		
12288	12264	
SCS-1.7×2	12268	
	12269	
	12272	
	12273	
	12274	
	12307	
	12310	
	12311	
	12357	
	12536	
20555	12540	
20618	12543	
CS-1.7×2 (2)		40109
12279		
12282	12579	
12299	12629	
12552	AS-107	(4)
	CS-1.2×3	(6)
	D-2.4×6×A	
	D-2.4×6×0.25	(2)
	D-2.4×10×0.5	(2)
	D-2.55×4.5×A	
	D-6.5×9×0.5	
	FS-1.2×3	(4)
	KFS-1.7×3	
	KFS-1.7×4	(3)
	Ry-1	
	Ry-4	
	SCS-1.2×2.5	(3)



HASSELBLAD

SPOOLHOLDER No. 0001 - 0416
(old type) No. CS 10501 - CP 16266



A spoolholder within above stated No. series must not be fitted into a magazine with a serial No. over CP 16266. In that case there is risk for a light-leak.



HASSELBLAD

SWEDEN

3

SPOOLHOLDER No. CP 16267 - CI 19480 (for magazine 12, old type)
SPOOLHOLDER No. CC 20000 - CT 27999 (for magazine 12)

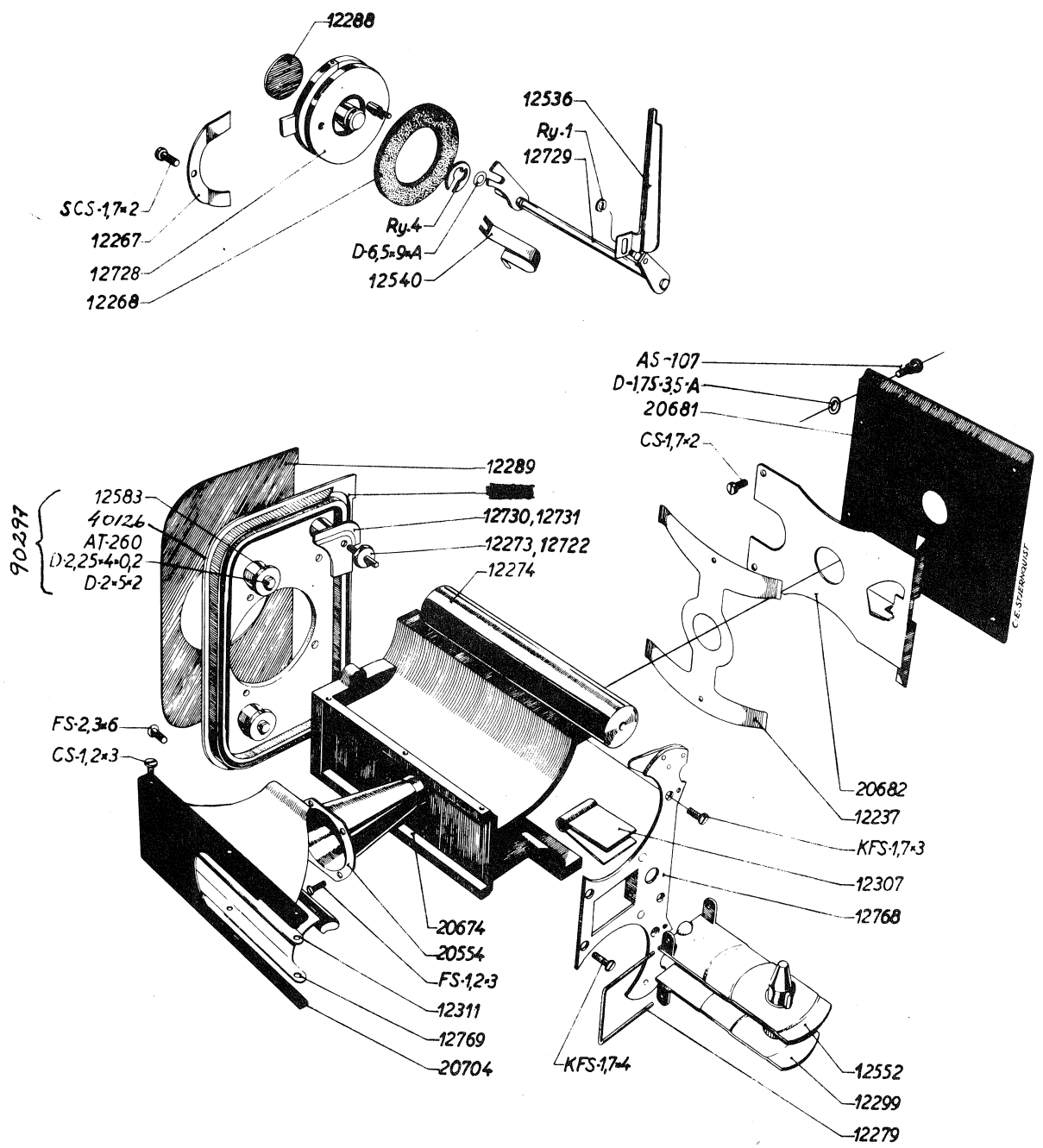
90297 20674 FS-2.3×6 (4)	20704	
	20554	
	20677	
	12237	
	12268	
	12273	(2)
	12274	(2)
	12289	
	12307	
	12311	
20681 20682 CS-1.7×2	12536	
	12540	
	12583	(2)
	12722	
	12723	
	12267	
	12288	
	SCS-1.7×2	
	12299	
	12552	
12768 12779	12728	
	12729	
	12730	
	12731	
	12767	
	12769	
	AS-107	(4)
	AT-260	(2)
	CS-1.2×3	(6)
	D-2×5×2	(2)
D-2.25×4×0.2	(2)	
D-6.5×9×A		
D-1.75×3.5×A	(4)	
FS-1.2×3	(4)	
KFS-1.7×3		
KFS-1.7×4	(3)	
Ry-1		
Ry-4		

40128

40126	}	90297
12583		
AT-260		
D-2x5x2		
D-2,25x4x0,2		



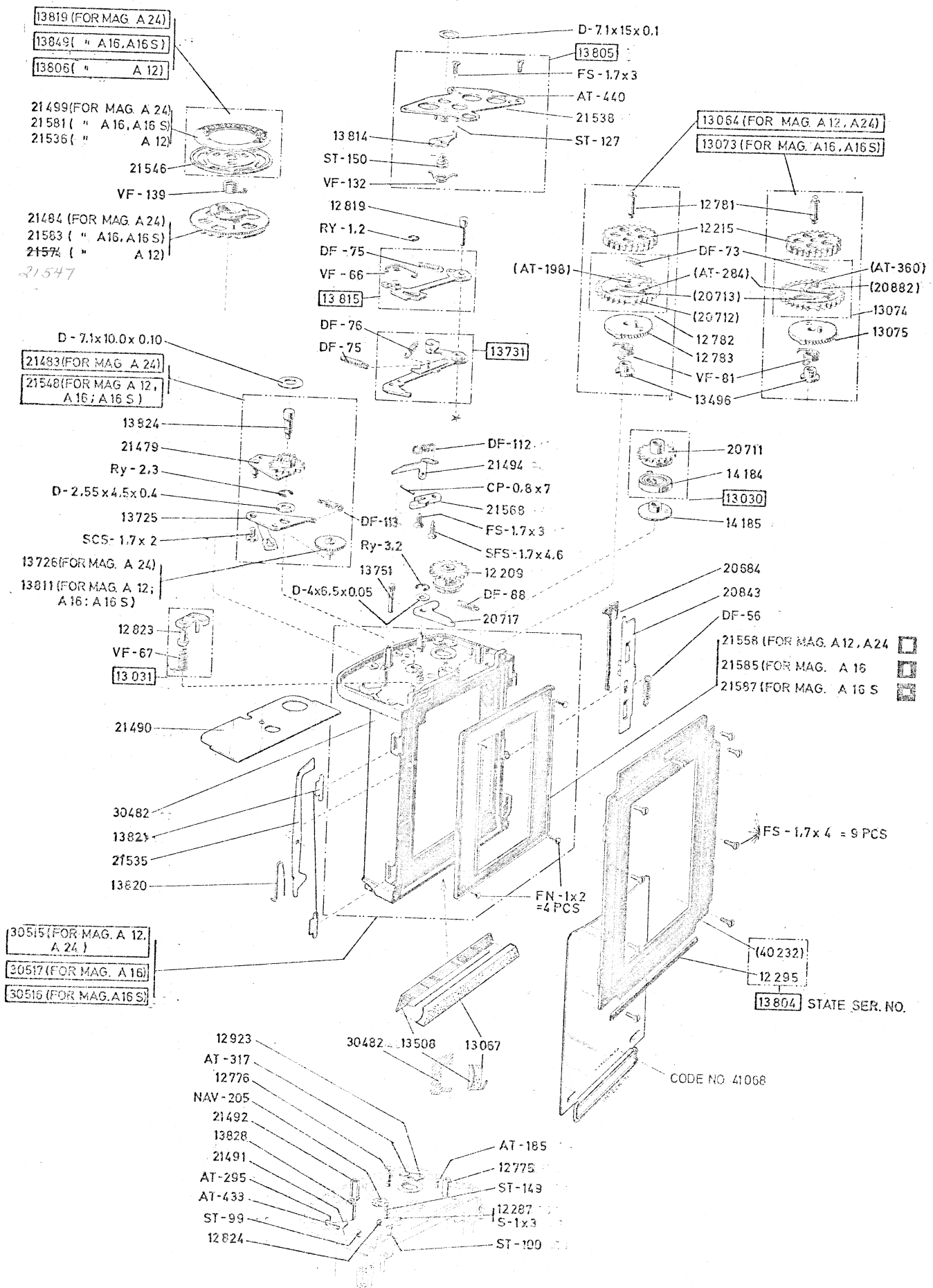
SPOOLHOLDER No. CP 16267 - CI 19480 (for magazine 12 old type)
 SPOOLHOLDER No. CC 20000 - CT 27999 (for magazine 12)



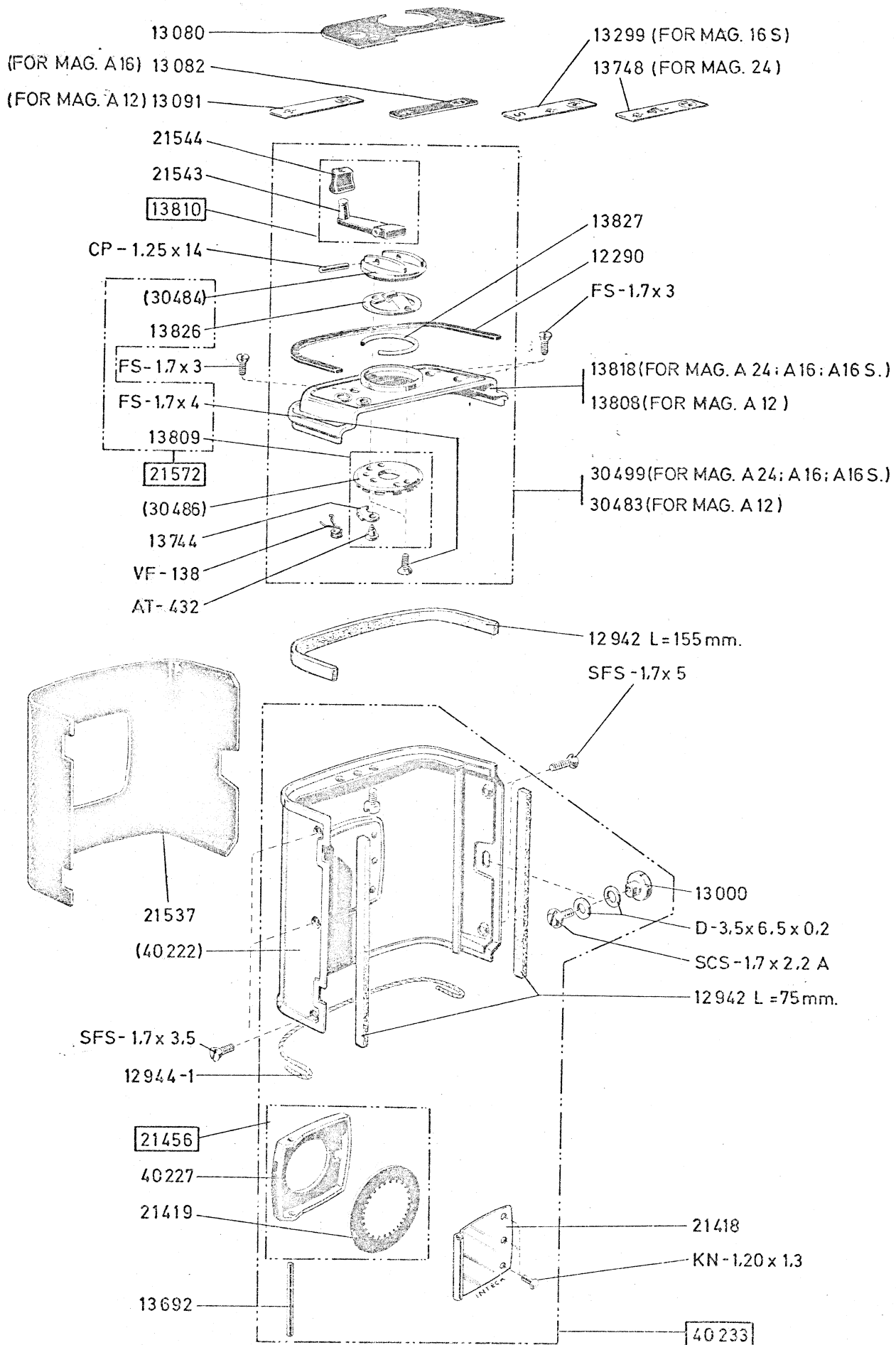
Spoolholders from No. CP 16267 and forwards does not fit into magazine 12, old type, between No:s 001 - CP 16266.



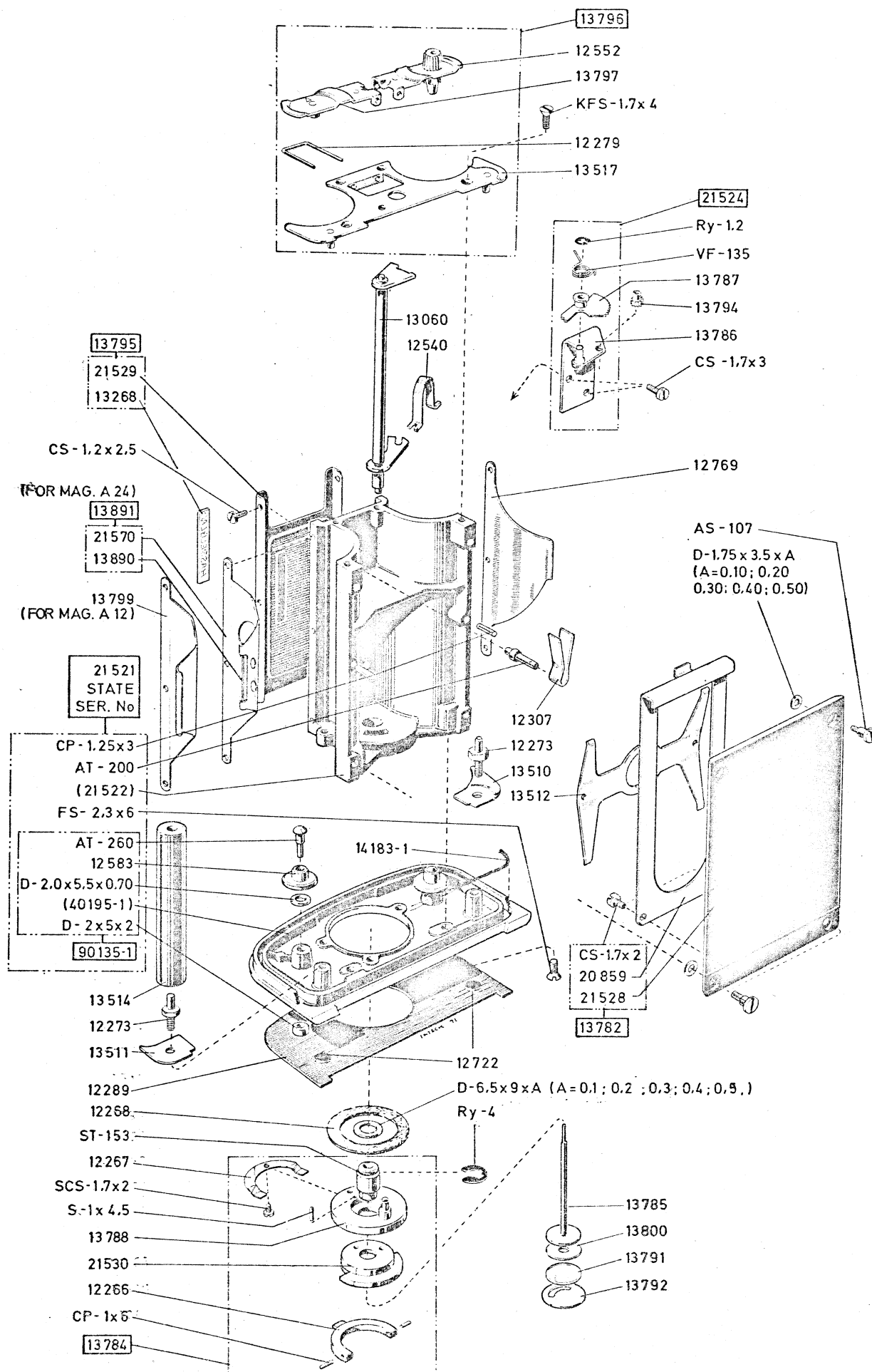
Magazine A12, A16, A16S, A24



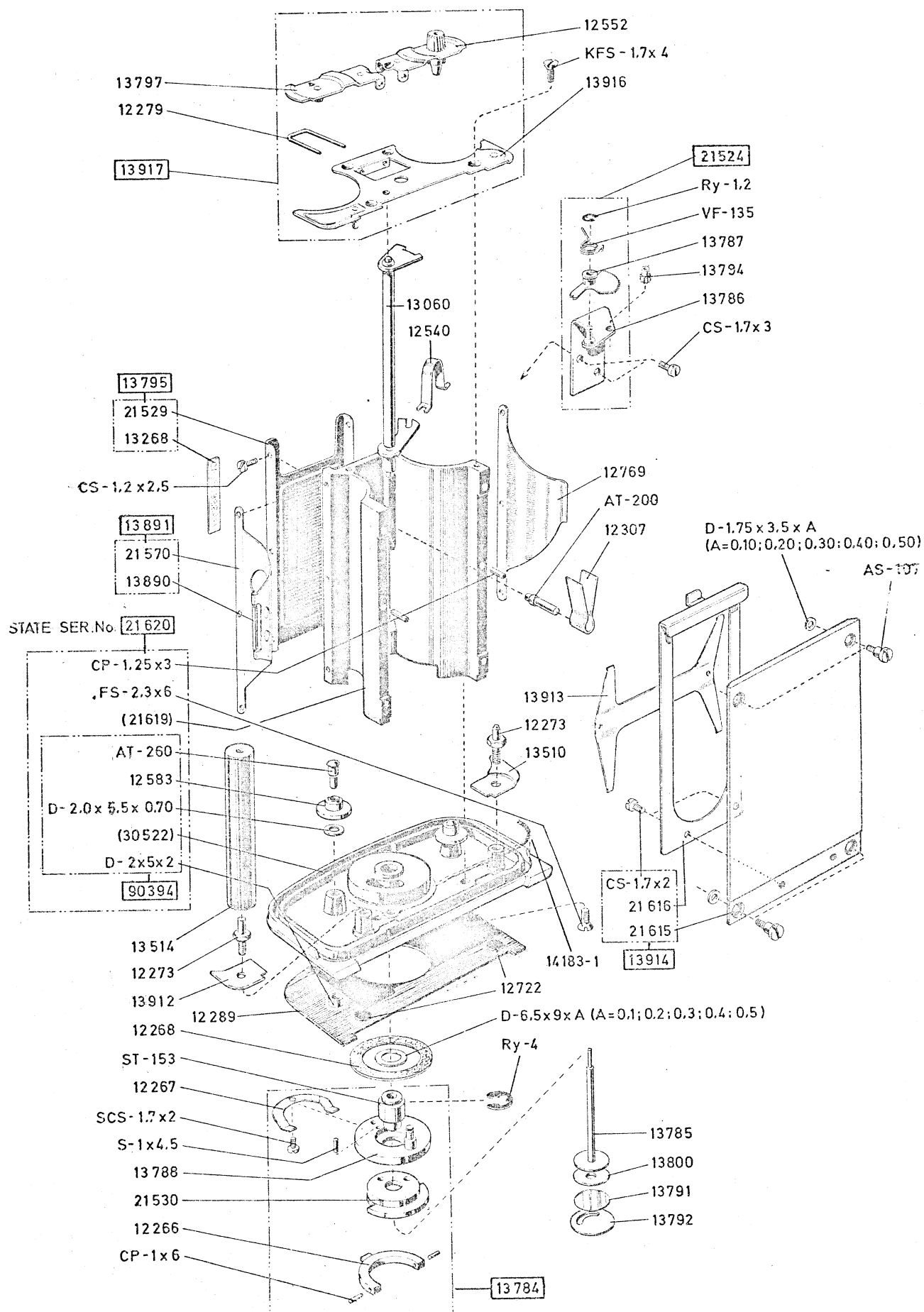
Magazine A12, A16, A16S, A24



Magazine A12, A24.



Magazine A16, A16S.





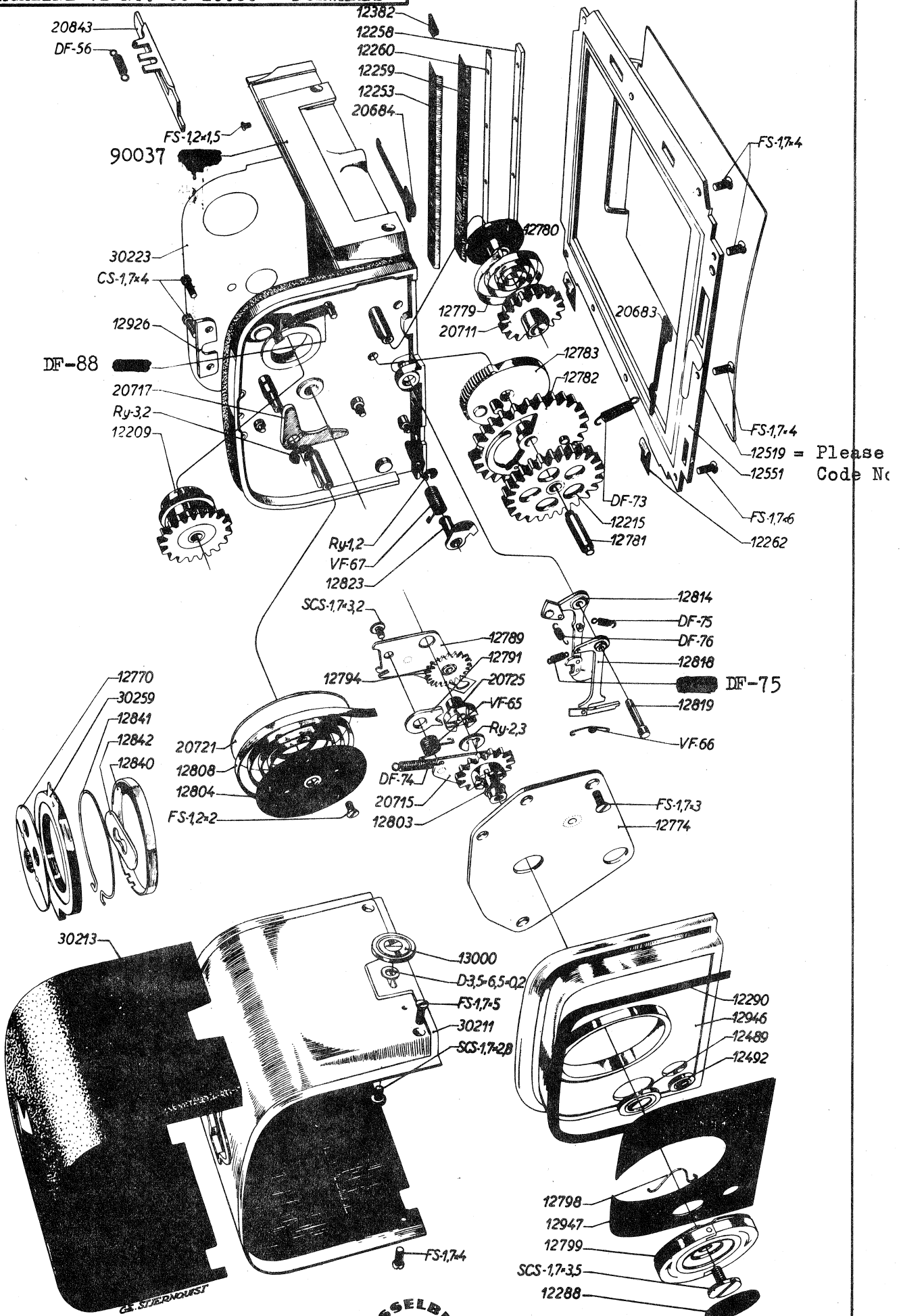
MAGAZINE 12 No. CC 20000 - FORWARDS

30259	30211	
12770	20752	
12842	12840	
	12841	40132
	13000	
	D—3.5×6.5×0.2	
	SCS—1.7×2.8	30213
		30223
20715		90037
20725		20683
12789		20684
12791		20711
12794		20716
12803		20717
DF—74		20721
Ry—2.3		20843
SCS—1.7×3.2A		12209
VF—65		12215
		12253
		12258
		12259
		12260
		12262 (2)
		12288
		12382
		12551
		12774
		12779
		12780
		12781
DF—73		12782
		12783
12798		12799
		12804
		12808
DF—75		12814
DF—76		
	DF—75	12818
VF—69		12819
12815		12823
		12926
12290		
12489		12946
12492		
12947		
	CS—1.7×4 (3)	
	DF—56	
	DF—88	
	FS—1.2×1.5 (4)	
	FS—1.2×2 (2)	
	FS—1.7×3 (3)	
	FS—1.7×4 (13)	
	FS—1.7×6	
	Ry—1.2	
	Ry—3.2	
	SCS—2.3×3.5	
	VF—67	

50107
12519 = Please order Code No. 41068



MAGAZINE 12 No. CC 20000 - FORWARDS



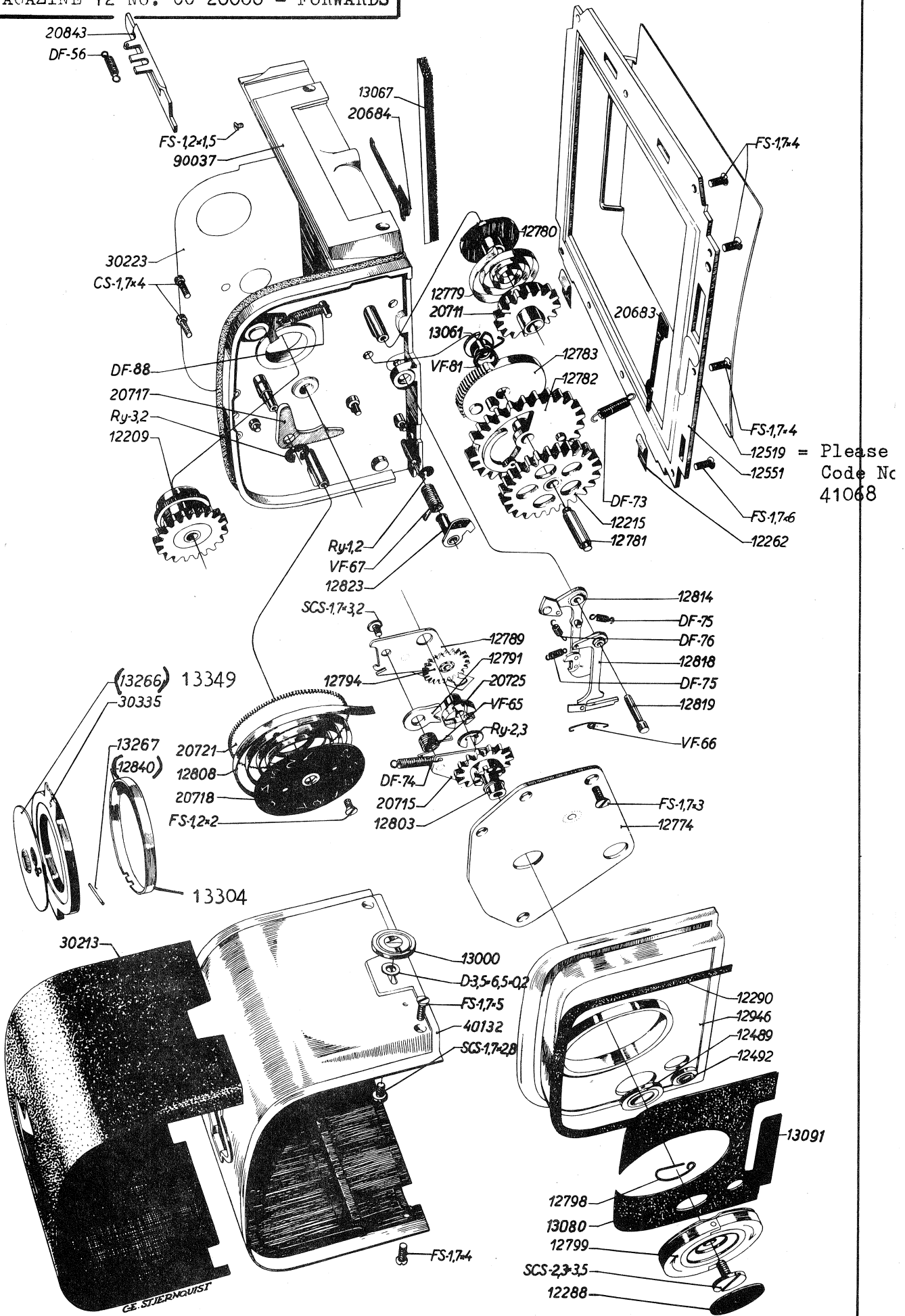
2

MAGAZINE 12 No. CC 20000 - FORWARDS

13349	30335	}	21004	}	90037
	(13266)		13000		40132
	13267				
	(12840)	}	13304	}	30213
	D-3.5×6.5×0.2				30223
	SCS-1.7×2.8				20683
					20684
	20715				20711
	20725				20716
	12789				20717
	12791				20718
	12794				20721
	12803				20843
	DF-74				
	Ry-2.3				
	SCS-1.7×3.2×A				
	VF-65				
	13061				13064
	12215				13067
DF-73	}		12781		12209
			12782		12262
			12783		12288
	VF-81				12551
					12774
					12779
					12780
	12798				12799
					12808
	DF-75				12814
	DF-76				
	DF-75				12818
	VF-69				12819
					12823
	13091				
	12290				
	12489				12946
	12492				
	12947				
					CS-1.7×4 (3)
					DF-56
					DF-59
					FS-1.2×1.5 (4)
					FS-1.2×2 (2)
					FS-1.7×3 (3)
					FS-1.7×4 (13)
					FS-1.7×6
					Ry-1.2
					Ry-3.2
					SCS-2.3×3.5
					VF-67

50107

12519 = Please order Code No. 41068



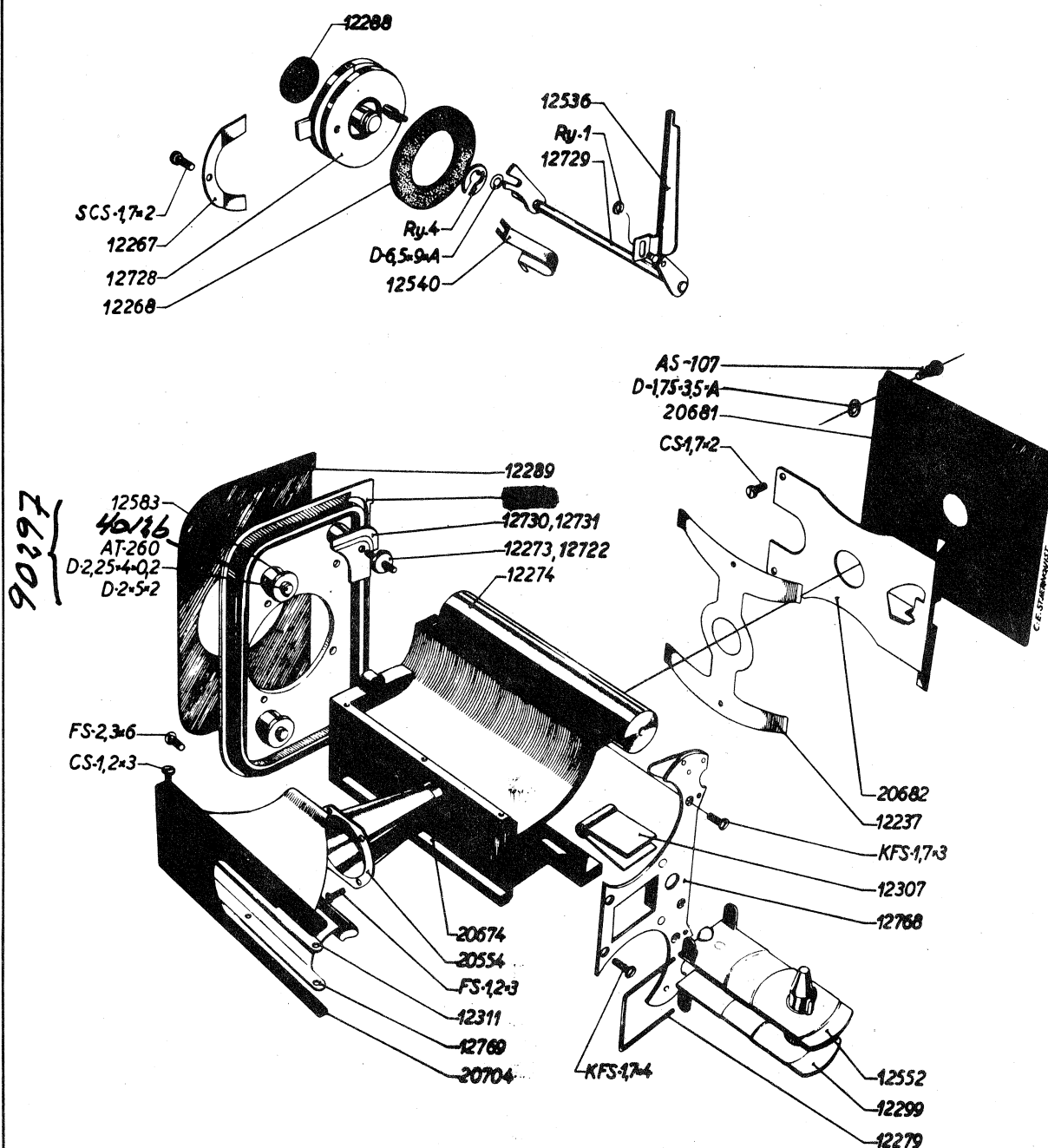
3

SPOOLHOLDER No. CP 16267 - CI 19480 (for magazine 12, old type)
SPOOLHOLDER No. CC 20000 - CT 27999 (for magazine 12)

90297 20674 FS-2.3×6 (4)	20704		
	20554		
	20677		
	12237		
	12268		
	12273	(2)	
	12274	(2)	
	12289		
	12307		
	12311		
20681 20682 CS-1.7×2	12536		
	12540		
	12583	(2)	
	12722		
	12723		
	12267 12288 SCS-1.7×2	12728	40128
		12729	
		12730	
		12731	
		12767	
12769			
12779			
AS-107		(4)	
AT-260		(2)	
CS-1.2×3		(6)	
D-2×5×2	(2)		
D-2.25×4×0.2	(2)		
D-6.5×9×A			
D-1.75×3.5×A	(4)		
FS-1.2×3	(4)		
KFS-1.7×3			
KFS-1.7×4	(3)		
Ry-1			
Ry-4			

40126	}	90297
12583		
AT-260		
D-2x5x2		
D-2,25x4x0,2		

SPOOLHOLDER No. CP 16267 - CI 19480 (for magazine 12, old type)
 SPOOLHOLDER No. CC 20000 - CT 27999 (for magazine 12)



Spoolholders from No. CP 16267 and forwards does not fit into magazine 12, old type, between No:s 0001 - CP 16266.

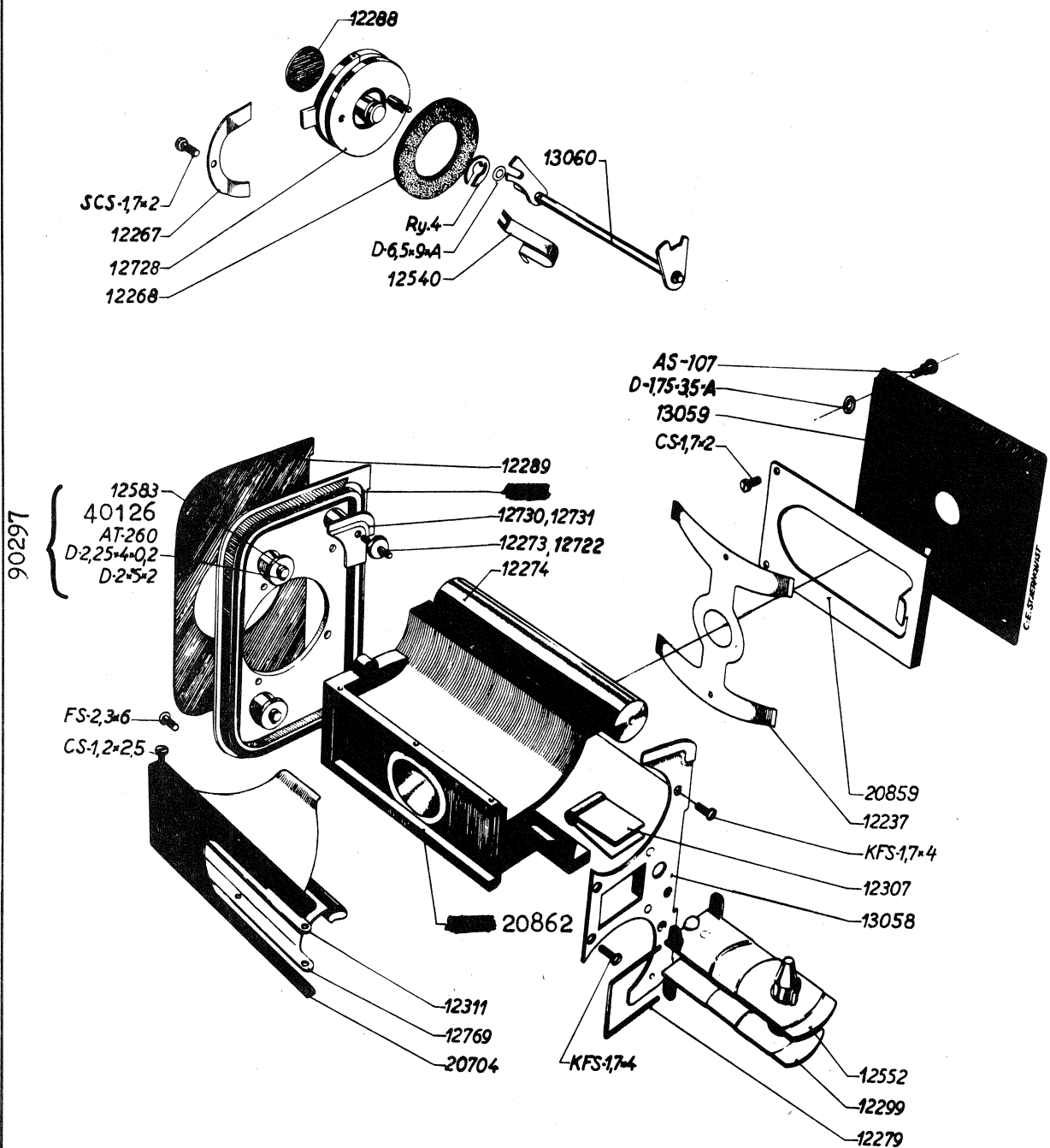
4

SPOOLHOLDER No. CT 10001 - CU 11000 (for magazine 16)
 SPOOLHOLDER No. CT 28000 - TH 64199 (for magazine 12)
 SPOOLHOLDER No. CU200001 - TH204200 (for magazine 16 and 16S)

90297	}	20863	}	20704
20862				
FS-2.3×6 (4)				
13057	}	13058		
12279				
12299				
12552				
20681	}	13059		
20859				
CS-1.7×2 (2)		13060		
		12237		
		12268		
		12273	(2)	
		12274	(2)	
		12289		40148
		12307		
		12311		
		12540		
12267	}	12583	(2)	
12288		12728		
SCS-1.7×2		12730		
		12731		
		12769		
		AS-107	(4)	
		AT-260	(2)	
		CS-1.2×2.5	(6)	
		D-2.25×4×0.2	(2)	
		D-6.5×9×A		
		D-1.75×3.5×A	(4)	
		KFS-1.7×4	(4)	
		Ry-4		

40126	}	90297
12583		
AT-260		
D-2x5x2		
D-2,25x4x0,2		

SPOOLHOLDER No. CT 10001 - CU 11000 (for magazine 16)
 SPOOLHOLDER No. CT 28000 - TH 64199 (for magazine 12)
 SPOOLHOLDER No. CU 200001 - TH 204200 (for magazine 16 and 16S)



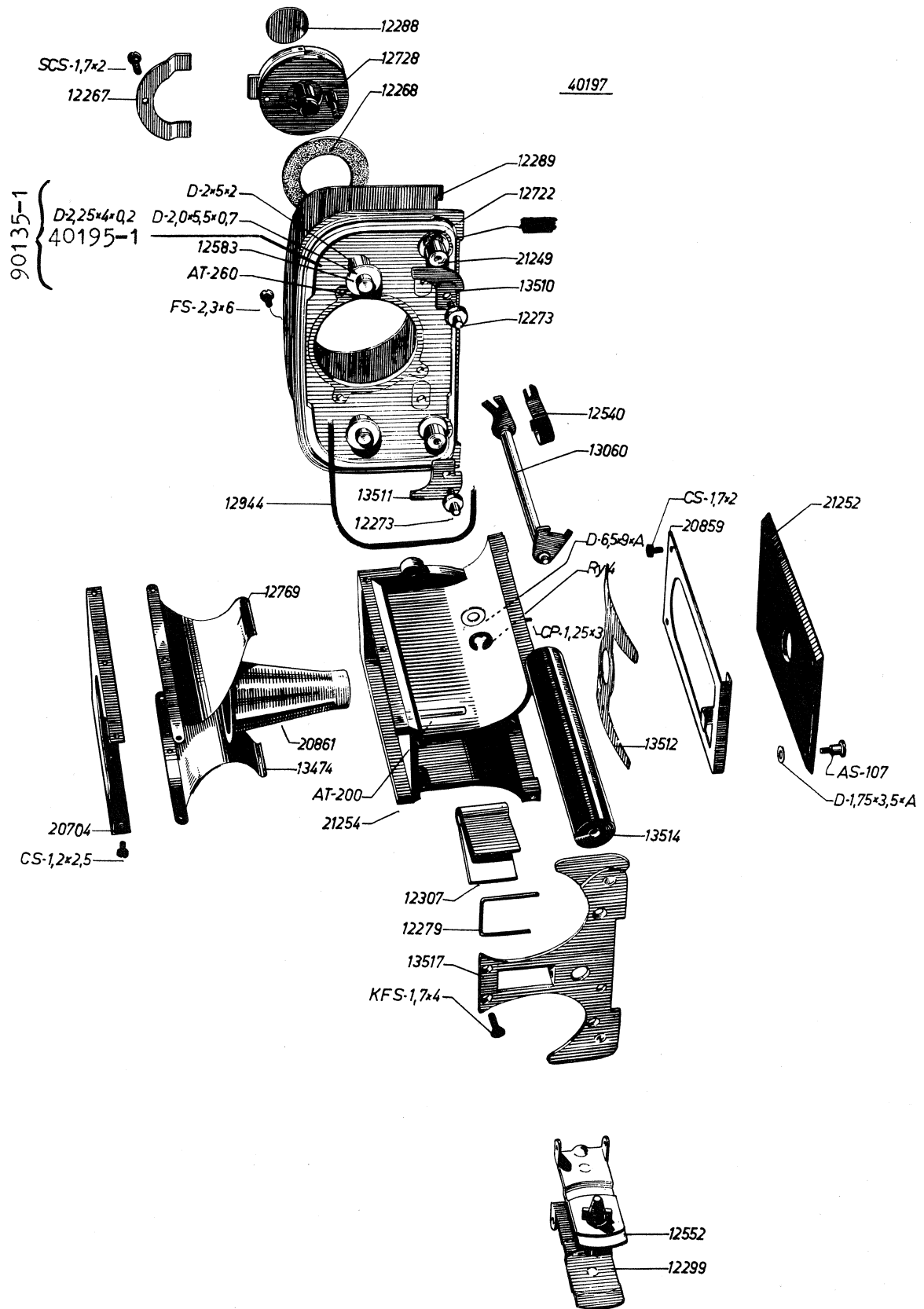
5

SPOOLHOLDER No. TH 64200 - FORWARDS (for magazine 12)
 SPOOLHOLDER No. TP 204201 - FORWARDS (for magazine 16 and 16S)

==

40194	20861		
12694	21254		
AT-200		20704	
12583 (2)		21253	
(2) } 40195-1			
AT-260 (2)	90135-1		
D-2×5×2 (2)			
D-2,0×5,5×0,7 (2)	FS-2,3×6 (4)		
D-2,25×4×0,2 (2)		12268	
		12273 (2)	
		12289	
		12307	
		12540	
		12722 (2)	
	12267		
	12288	12728	
	SCS-1,7×2 (2)		
		12769	40197
		12944	
		13060	
		13474	
		13510	
		13511	
		13512	
		13514 (2)	
	20859		
	21252	13516	
	CS-1,7×2 (2)		
	12279		
	12299	13518	
	12552		
	13517		
		AS-107 (4)	
		CP-1,25×3	
		CS-1,2×2,5 (6)	
		D-1,75×3,5×A (4)	
		D-6,5×9×A	
		KFS-1,7×4 (4)	
		RY-4	

SPOOLHOLDER No. TH 64200 - FORWARDS (for magazine 12)
 SPOOLHOLDER No. TP 204201 - FORWARDS (for magazine 16 and 16S)



1

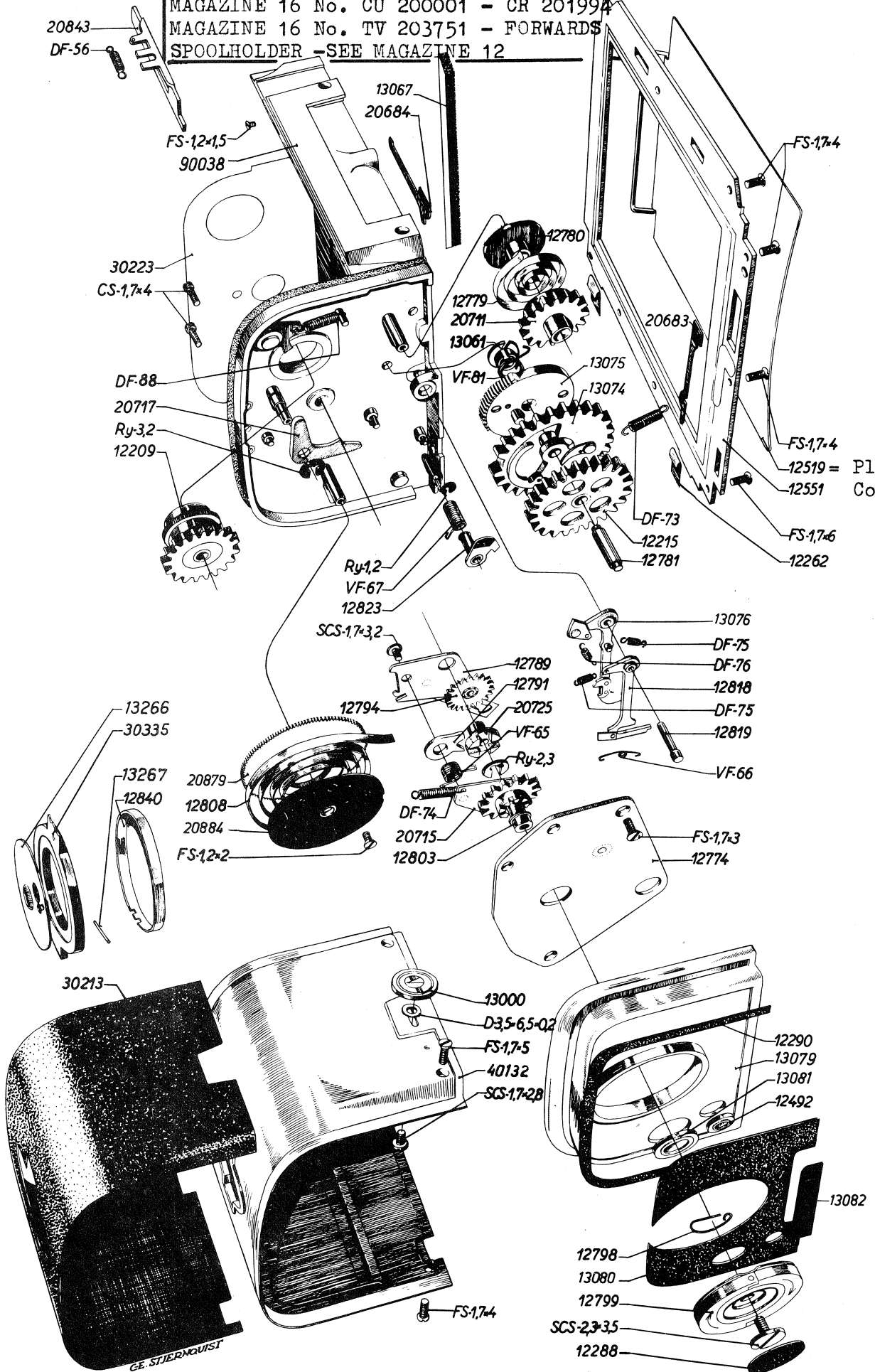
MAGAZINE 16 No. CT 10001 - CU 11000
MAGAZINE 16 No. CU 200001 - CR 201994
MAGAZINE 16 No. TV 203751 - FORWARDS

SPOOLHOLDER - SEE MAGAZINE 12

30335	}	21004	}	
13266		13000		
		13267		90038
		12840		40132
		D-3.5×6.5×0.2		30213
		SCS-1.7×2.8		30223
				20683
				20684
				20711
		20715		
		20725		
		12789		
		12791		20716
		12794		20717
		12803		20843
		DF-74		20879
		Ry-2.3		20884
		SCS-1.7×3.2		13067
		VF-65		
		13061		
DF-73	}	13074		13073
		13075		
		12215		
		12781		
		VF-81		
		DF-75		
		DF-76		13076
		13080		
		13081		
		13082		13079
		12290		12808
		12492		
				12209
				12262 (2)
				12288
				12551
				12774
				12779
				12780
		12798		12799
		DF-75		12818
		VF-66		12819
				12823
				CS-1.7×4 (2)
				DF-56
				DF-59
				FS-1.2×1.5 (4)
				FS-1.2×2 (2)
				FS-1.7×3 (3)
				FS-1.7×4 (13)
				FS-1.7×5 (2)
				FS-1.7×6
				Ry-1.2
				Ry-3.2
				SCS-2.3×3.5
				VF-67

50108
12519 = Please order Code No. 41068

MAGAZINE 16 No. CT 10001 - CU 11000
 MAGAZINE 16 No. CU 200001 - CR 201994
 MAGAZINE 16 No. TV 203751 - FORWARDS
 SPOOLHOLDER - SEE MAGAZINE 12



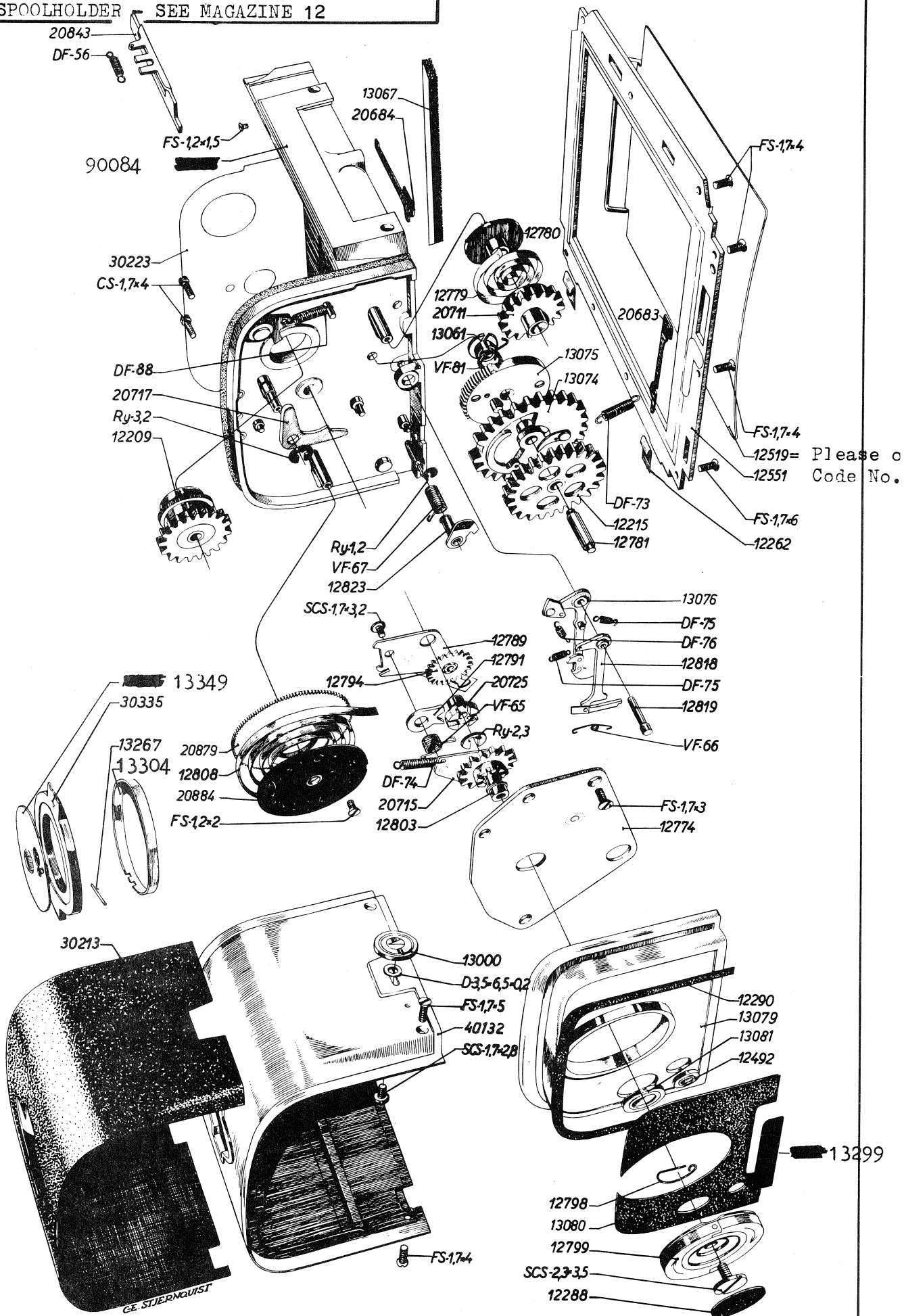
2

MAGAZINE 16 S No. CR 201995 - FORWARDS
SPOOLHOLDER - SEE MAGAZINE 12

13349	30335	21004	
		13000	
		13267	90084
		13304	40132
		D-3.5×6.5×0.2	30213
		SCS-1.7×2.8	30223
			20683
			20684
			20711
		20715	
		20725	
		12789	
		12791	20716
		12794	20717
		12803	20843
		DF-74	20879
		Ry-2.3	20884
		SCS-1.7×3.2	13067
		VF-65	
		13061	
DF-73		13074	13073
		13075	
		12215	
		12781	
		VF-81	
		DF-75	
		DF-76	13076
		13080	
13299		13081	13300
		12290	12808
		12492	
		12209	
		12262	(2)
		12288	
		12551	
		12774	
		12779	
		12780	
12798		12799	
DF-75		12818	
VF-66		12819	
		12823	
		CS-1.7×4	(2)
		DF-56	
		DF-59	
		FS-1.2×1.5	(4)
		FS-1.2×2	(2)
		FS-1.7×3	(3)
		FS-1.7×4	(13)
		FS-1.7×5	(2)
		FS-1.7×6	
		Ry-1.2	
		Ry-3.2	
		SCS-2.3×3.5	
		VF-67	

50108
12519 = Please order Code No. 41068

MAGAZINE 16S No. CR 201995 - FORWARDS
SPOOLHOLDER SEE MAGAZINE 12



Specifikation for

H A S S E L B L A D

I

MAGAZINE 24

Pcs	Part No.	Description	Price (each)	Next assy.	Remark
2	12202	Handle		13727	Please state serial No.
1	12209	Gear		50120	
1	12215	Gear, upper		13064	
2	12262	Spring		50120	
1	12287	Guiding pin		30470	
1	12288	Leather		50120	
1	12290	Leather		13734	
1	12295	Ribbon		12551-4	
1	12492	Window		13734	
1	12551-4	Outer plate: complete		50120	
1	12775	Shaft		30470	L = 75 mm L = 155 mm
1	12776	Stud		30470	
1	12777	Shaft		30470	
1	12779	Spring		13030	
1	12780	Hub		50120	
1	12781	Shaft		13064	
1	12782	Gear with catch		13064	
1	12783	Spacing gear		13064	
1	12795	Centre		13727	
1	12796	Spring plate		13727	
1	12803	Shaft		21480	
1	12808	Spring		13730	
1	12819	Shaft		50120	
1	12823	Signal flag		13031	
1	12824	Shaft		30470	
1	12923	Catch		30470	
1	12936	Turning knob		13349	
2	12942	Foam plastic strip		40219	
1	12942	Foam plastic strip		50120	
1	12944	Sealing cord		50120	
1	13000	Locking knob		40219	
1	13030	Spring housing: complete		50120	
1	13031	Signal flag: complete		50120	
1	13064	Gear: assy.		50120	
1	13067	Light trap		50120	
1	13080	Leather		13734	
1	13093	Ring		13734	
1	13265	Button		13349	
1	13304	Cap		21482	
1	13349	Dial		21482	
1	13473	Plate spring		13349	
1	13496	Lockring		13064	
1	13508	Foil		50120	
1	13722	Window		13734	
1	13723	Mechanism plate		50120	
1	13725	Plate		21480	
1	13726	Gear		21480	
1	13727	Handle: complete		50120	
1	13728	Ratchet disk		13727	
1	13730	Counter gear: complete		50120	
1	13731	Release arm		50120	
1	13732	Signal arm		50120	
1	13734	Cover, right: complete		50120	
1	13735	Catch		13723	
1	13744	Pawl		13728	

Pcs	Part No.	Description	Price (each)	Next assy.	Remark
1	13748	Name plate		13734	
1	13751	Pin		50120	
1	20623	Frame		90310	
1	20383	Exposure lock		50120	
1	20634	Locking spring		50120	
1	20711	Spring housing	×	13030	
1	20713	Catch		12782	
1	20717	Return stop		50120	
1	20843	Locking arm		50120	
1	21002	Symbol disk		13349	
1	21262	Dial		13349	
1	21479	Gear plate		21480	
1	21480	Centre mechanism: complete		50120	
1	21481	Counter gear		13730	
1	21482	ASA/DIN dial: complete		40219	
1	21487	Disk		13728	
1	21490	Cover		50120	
1	21491	Stop arm		30470	
1	21492	Socket		30470	
1	21493	Number disk		50120	
1	21494	Link		50120	
1	21495	Bearing bracket		50120	
1	30213	Leather		50120	
1	30278	Cover		13734	
1	30470	Magazine support		90310	
1	30475	Ring	×	21482	
1	40112	Outer plate		12551-4	
1	40219	Magazine shell: assy.		50120	
1	90309	Magazine shell		40219	
1	90310	Magazine body: assy.		50120	
1	AT-185	Pin		30470	
1	AT-317	Pin		30470	
2	AT-430	Pin		13727	
1	AT-432	Pin		13728	
1	AT-433	Pin		30470	
1	CP-0,8×7	Cylinder pin		50120	
2	CP-1×6	Cylinder pin		13727	
1	CP-1×8,5	Cylinder pin		30470	
2	CS-1,2×1,8	Screw		40219	
1	CS-1,7×3,5	Screw		50120	
3	CS-1,7×4	Screw		50120	
1	D-2,55×4,5×0,5	Washer		21480	
2	D-3,5×6,5×0,2	Washer		40219	
1	D-4×6,5×0,05	Washer		50120	
1	DF-56	Draw spring		50120	
1	DF-73	Draw spring		12782	
2	DF-75	Draw spring		13731/32	
1	DF-76	Draw spring		13731	
1	DF-88	Draw spring		50120	
1	DF-112	Draw spring		50120	
1	DF-113	Draw spring		21480	
4	FN-1×2	Rivet		90310	
2	FS-1,2×2	Screw		50120	
3	FS-1,7×3	Screw		50120	
8	FS-1,7×4	Screw		50120	

Pcs	Part No.	Description	Price (each)	Next assy.	Remark
1	FS-1,7×6	Screw		50120	
1	NAV-158	Hub		30470	
1	NAV-205	Hub		30470	
1	RY-1,2	Clip		50120	
1	RY-2,3	Clip		21480	
1	RY-3,2	Clip		50120	
1	S-1×3	Pin		30470	
1	SCS-1,7×2	Screw		21480	
1	SCS-1,7×2,2A	Screw		40219	
1	SCS-1,7×3,6	Screw		50120	
1	SCS-2,3×3,5	Screw		50120	
3	SFS-1,7×3,5	Screw		50120	
2	SFS-1,7×5	Screw		50120	
1	ST-99	Pin		30470	
1	ST-100	Pin		30470	
1	ST-149	Pin		30470	
1	ST-150	Pin		13723	
1	VF-66	Torsion spring		13732	
1	VF-67	Torsion spring		13031	
1	VF-81	Torsion spring		13064	
1	VF-132	Torsion spring		13723	
1	VF-133	Torsion spring		13727	
		Slide	▲		Code No. 41068

Specifikation for

H A S S E L B L A D
MAGAZINE 24

2

Pcs	Part No.	Description	Price (each)	Next assy.	Remark
1	12266	Handle		13784	
1	12267	Spring		13784	
1	12268	Felt ring		40225	
2	12273	Journal		40225	
1	12279	Fastening		13796	
1	12289	Leather		40225	
1	12307	Spring		40225	
1	12540	Spring		40225	
1	12552	Take-up arm		13796	
2	12583	Spool centre		90135-1	
2	12722	Shim		40225	Assortment 0,1; 0,2; 0,3 mm
1	12769	Spring		40225	
1	13060	Locking shaft		40225	
1	13268	Name plate		13795	
1	13510	Film guide		40225	
1	13511	Film guide		40225	
1	13512	Plate spring		40225	
2	13514	Roller		40225	
1	13517	Plate		13796	
1	13782	Pressure plate: complete		40225	
1	13784	Lock: complete		40225	
1	13786	Bracket		21524	
1	13787	Sector		21524	
1	13788	Plate	×	13784	
1	13791	Window		40225	
1	13792	Plate		40225	
1	13794	Gear		40225	
1	13795	Cover: complete		40225	
1	13796	Plate: complete		40225	
1	13797	Arm		13796	
1	13799	Spring		40225	
1	20859	Guide plate		13782	
1	21521	End plate with intermediate part	×	40225	Please state serial No.
1	21522	Intermediate part		21521	
1	21524	Bracket: complete		40225	
1	21528	Pressure plate		13782	
1	21529	Cover		13795	
1	21530	Plate	×	13784	
1	40195-1	End plate, left	×	90135-1	
1	90135-1	End plate: complete		21521	
1	90311	Film signal: complete		40225	
4	AS-107	Screw		40225	
1	AT-200	Pin		21522	
2	AT-260	Pin		90135-1	
2	CP-1 × 6	Cylinder pin		13784	
2	CP-1,25 × 3	Cylinder pin		40225	
6	CS-1,2 × 2,5	Screw		40225	
2	CS-1,7 × 2	Screw		13782	
2	CS-1,7 × 3	Screw		40225	
4	D-1,75 × 3,5 × A	Washer		40225	A = Assortment 0,1; 0,2; 0,3; 0,4; 0,5 mm
2	D-2 × 5 × 2	Washer		90135-1	
2	D-2,0 × 5,5 × 0,70	Washer		90135-1	
1	D-6,5 × 9 × A	Washer		40225	A = Assortment 0,1; 0,2; 0,3; 0,4; 0,5 mm
4	FS-2,3 × 6	Screw		21521	
4	KFS-1,7 × 4	Screw		40225	

Pcs	Part No.	Description	Price (each)	Next assy.	Remark
1	RY-1,2	Clip		21524	
1	RY-4	Clip		40225	
1	S-1 × 4,5	Pin	×	13784	
1	SCS-1,7 × 2	Screw		13784	
1	ST-153	Pin	×	13784	
1	VF-135	Torsion spring		21524	

INSTRUCTIONS FOR DISASSEMBLING THE HASSELBLAD MAGAZINE 70

1. Remove the cassette holder.
2. Remove the right cover 21459 with four screws FS-1.7×4 and one screw FS-1.7×5 from the inside.
3. Remove the leather 12288 from the handle 21457, remove the screw SCS-2.3×3.5 and lift off the handle. Note the washer D-7.10×15×0.10 underneath.
4. Loosen the two screws SCS-1.7×2.1 which retain the number disk 13670 and remove the disk.
5. Release the counter return stop 21414 by pressing it forwards and allow the spring for the counter wheel 13669 to "run out". Remove the counter wheel 13669 with its clip RY-1.9 as well as the spring 21407 and the washer D-6.2×8.55×1.20.
6. Remove the catch 13671 with spring DF-106 from its pin AT-423 with screw SCS-1.7×2.2A. Note that there may be an adjusting washer D-2.55×4×0.06.
7. Loosen the gear 21403 by unscrewing the film feeder 13668 using tool V-2240 from the inside.
8. Loosen the clip RY-1.5 and remove the catch 13687 with its spring VF-128 from pin ST-144 as well as the washer D-2.25×4×0.10.
9. Remove both the gears 13667 with their clips RY-1.9.
10. Unhook DF-111 from pin ST-143 and be careful not to lose the cylindrical pin CP-1.2×15.3 which is located inside the spring. Remove the exposure signal 13677 with its clip RY-1.2.
11. Remove the film signal 21408 and also the film feeler 13674 on the inside by loosening screw SCS-1.2×2.5. Do not lose the spring VF-130.
12. Loosen the arm 13673 with cam 13666 and both the screws CS-1.2×3. Loosen the spring DF-75 from its pin ST-117.
13. The pawl 13679 and the zero lever 13672 respectively are loosened as well as clip RY-1.5. Do not lose spring VF-131 and lift off spring DF-88 from pin ST-117.
14. Disconnect spring DF-73, remove clip RY-1.9 and lift off the catch 13676. Loosen the spring DF-110 and remove cam plate 13675.
15. Loosen clip RY-1.5 and remove the signal catch 13678 with its spring VF-129.
16. Loosen the screw SCS-1.7×2.1 and remove gear 13665.
17. Gear 21400 with washer 21433 and engagement spring 21434 respectively are removed with screw SCS-3×3.8 from the inside. Both the last-mentioned parts can be separated by removing the screw.
18. Loosen both the screws CS-1.7×3 which retain the return stop 21432 and then remove the stop. (In order to prevent the spring 21406 in the return coupling 21458 from being deformed when the return stop is removed, brake the coupling until the spring has "run out").
19. Remove the outer plate 13683 through the eight screws FS-1.7×4. Now remove both the springs 12262, the light trap 13067, the foil 13508, the exposure catch 20683, the locking spring 20684 and the locking arm 20843 with its spring DF-56.
20. Unscrew the left-hand thread screw SCS-2.3×3V and remove the return coupling 21458. Notice the spring 21406.
21. Loosen the screw CS-1.7×6 and remove the film guide 21409.
22. Note that the zero button 13686 cannot be removed without taking out spring 21413 since otherwise there is risk of the spring becoming deformed.
23. Remove the magazine shell 50115 through the eight screws, two SFS-1.7×5 on the top, three SFS-1.7×3.5 on the bottom and also three CS-1.7×2.5 through the brackets 21417 on the inside.
24. Remove the self-adhesive cover 30496.

CASSETTE HOLDER 40211

25. Remove any film cassettes that may be fitted.
26. Remove the plate 21394 with its four screws FS-1.7×4 and lift off both the rollers 13660 and 13661 respectively.
27. Lift off the pressure plate 13659 with its guide and remove both the springs 21388.
28. Pull out the spring 13655.
29. Remove the spring 12540 and the locking shaft 13662.
30. Loosen both the film guides 21389 and their screws 12273.
31. Remove the lock 12728 by removing the clip RY-4.
32. Remove the leather 21387 and remove the intermediate part 21395 by loosening the five screws FS-2×5.
33. Take off the tooth wheel 21377 on the plate 21394 by unscrewing the coupling 21378.
34. The two holders 21375 and 21376 respectively are removed by pulling out the fastening 13650. Note that one of the sides of the fastening is slightly bent.
35. Note that the guide plate 21382 is glued with ARALDIT to the pressure plate 21381 and, for this reason, neither of these parts must be replaced separately. Should there be anything wrong with one of these two parts, a complete new pressure plate unit 13659 must be fitted.

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Register for assembly and adjustment	Point
CHECKING THE MECHANISM PLATE 30458 AND THE MAGAZINE SUPPORT 30457	1
RETURN COUPLING 21458	2
SIGNAL CATCH 13678	3
FILM METERING MECHANISM	4
ZERO LEVER 13672, PAWL 13679	5
ARM 13673, CAM 13666	6
FILM FEELER 13674, FILM SIGNAL 21408	7
EXPOSURE SIGNAL 13677	8
CATCH 13671	9
GEAR 13667, CATCH 13687	10
GEAR 21403, FILM FEEDER 13668	11
HANDLE 21457	12
COUNTER	13
FILM GUIDE 21409	14
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ADJUSTING THE FUNCTIONS OF THE MAGAZINE	18
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In cases where the type of lubricant is not specified, always use HASSELBLAD SPECIAL No. 1.

1. CHECKING THE MECHANISM PLATE 30458 AND THE MAGAZINE SUPPORT 30457.

- a) Check that the mechanism plate 30458 is correctly riveted to the magazine support 30457 and also that all hubs, rivets and other pins are firmly in position.

Adjustment: If the mechanism plate is loose, all rivets are re-riveted maintaining both the centre distances of 14.75 mm and 17.45 mm between AT-418 and ST-141. See also Spare parts catalogue, page 1.

- b) Check that both the rollers in the frame 20623 operate easily.

2. RETURN COUPLING 21458. Spare parts catalogue, page 2.

- a) Lubricate AT-418.

Locate the return coupling 21458 provisionally on AT-418 and check for smooth operation **before** coil spring 21406 is fitted in position. Remove the return coupling and fit spring 21406 in the spring housing 21531 and lubricate the spring. See Fig. 1.

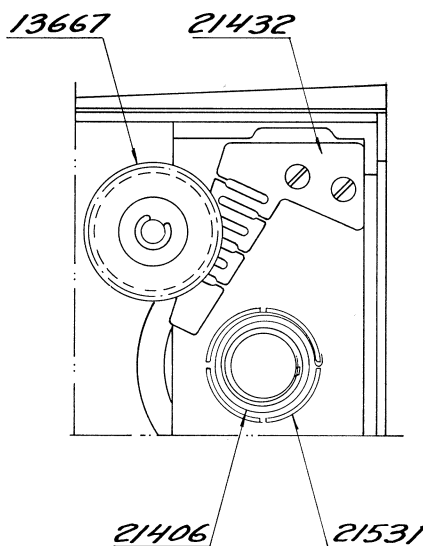


Fig. 1

- b) Fit the return coupling 21458 finally in position and ensure that the inner attachment on spring 21406 engages positively in the lug on gear 21447 when this gear is turned in an **anti-clockwise** direction. Tighten the left-hand thread screw SCS-2.3×3V and check that the return coupling operates easily.

- c) Tension spring 21406 about 3/4 of a turn but not more than one turn by turning the return coupling 21458 **anti-clockwise**. See Fig. 3. Hold gear 21447 in position, see Fig. 3, and locate the return stop 21432 in position.

Tighten both the screws CS-1.7×3 retaining the return stop loosely and press the stop downwards so that gear 21447 is stopped as early as possible and then tighten both the screws hard. Check that the return coupling operates smoothly and that spring 21406 functions correctly.

Adjustment: Check that there is clearance between the return stop 21432 and gear 21447. If necessary polish the top surface of the return stop with a fine file.

3. SIGNAL CATCH 13678. Spare parts catalogue, page 2.

a) Lubricate AT-417.

Fit the signal catch 13678 and spring VF-129 on pin AT-417. Secure with a clip RY-1.5 and check for smooth operation.

Adjustment: If the signal catch operates stiffly, this can depend on the fact that pin AT-417 is at an angle and that the hub on the signal catch is chafing on the edge of the long slot in the riveted mechanism plate. Correct the alignment of the pin and then check for smooth operation once again.

4. FILM METERING MECHANISM. Spare parts catalogue, page 2.

a) Lubricate the hub NAV-193.

Locate gear 21400 with its collar in hub NAV-193. Fit together washer 21433 and engagement spring 21434 with screw SCS-3×3.8 but note that both the bent-up lugs on 21434 must fit in both the recesses on 21433. Then screw together the unit with gear 21400 on the inside of the cassette.

b) Lubricate pin AT-415 and also the cam on gear 13665. Locate the gear on AT-415 and tighten screw SCS-1.7×2.1.

c) Lubricate pin ST-139.

Lay the cam plate 13675 on ST-139 and then connect spring DF-110 to the drilled spring attachment. The free end of the spring is fitted in the inner slot on ST-143.

Locate catch 13676 on ST-139 with the hub towards the cam plate so that the rear part of the catch rests against the stop pin on the cam plate. Secure with a clip RY-1.9. Connect the spring DF-73 in the hole on 13676 with the free end of the spring in the slot on the cam plate spring pin. Check that axial clearance is minimal and that the catch operates smoothly.

Adjustment: If necessary, adjust axial clearance with a washer D-2.55×4.5×A (A = assortment 0.1; 0.2; 0.3; 0.4 mm). The location of the washer is determined by the position of the catch in relation to the cam disk 13681.

d) Check that the rear curved part of the signal catch 13678 comes into contact with the edge of the cam plate 13675 when the signal catch is moved to the rear.

Adjustment: If necessary adjust the signal catch by bending but not so much that it comes into contact with the outer surface of gear 21400. Adjustment bending is carried out by using tool V-2239.

5. ZERO LEVER 13672, PAWL 13679, Spare parts catalogue, page 2.

a) Lubricate pin ST-142.

Connect the spring DF-88 to the zero arm 13672 and then lay the arm on pin ST-142. The free end of the spring is connected to pin ST-117. Lubricate the cone on the zero button 13686 and also the part of the zero arm against which the cone acts.

Fit the pawl 13679 and spring VF-131 on pin ST-142 and secure with a clip RY-1.5. See Fig. 2 for the installation of the pawl and spring.

6. ARM 13673, CAM 13666. Spare parts catalogue, page 2.

a) Lubricate the pin on cam 13666 and fit arm 13673 on the cam. Secure with a clip RY-1.5 and fit spring DF-75 in the spring attachment on the arm.

Grease the milled slot on pin AT-421.

Fit the long side of the arm in the slot on AT-421 and then fit the cam on gear 13665. The position of the cam in relation to the cam on gear 13665 is shown in Fig. 2.

Tighten both the screws CS-1.2×3.

Lubricate the arm at the point where the zero arm 13672 acts.

Hook spring DF-75 into the slot on ST-117.

7. FILM FEELER 13674, FILM SIGNAL 21408, Spare parts catalogue, page 2.
 - a) Lubricate the hub NAV-196.
The film feeler 13674 is fitted into the hub NAV-196 from the inside of the magazine and turned **clockwise** until the contour fits into the recess on the magazine support.
Fit spring VF-130 and the film signal 21408 from the outside and then tighten screw SCS-1.2×2.5. See Fig. 3.
8. EXPOSURE SIGNAL 13677. Spare parts catalogue, page 2.
 - a) Lubricate the long pin on cam plate 13675.
Fit the exposure signal 13677 on this pin and secure with a clip RY-1.2. Connect spring DF-111 to the drilled spring attachment on the exposure signal and push pin CP-1.2×15.3 into the spring. The free end of the spring is connected to the outer slot on ST-143. Check that the exposure signal operates smoothly.
9. CATCH 13671. Spare parts catalogue, page 2.
 - a) Connect the small loop on spring DF-106 to the spring attachment on catch 13671. The large loop on the spring is fitted to the milled pin AT-422.
When the catch is fitted, its front part is slid into the slot on AT-422 after the slot has been lubricated.
Lubricate the shoulder on pin AT-423.
The catch is located on this pin and retained by a screw SCS-1.7×2.2A. Check for smooth operation.
Adjustment: The catch must have the smallest possible axial clearance but still operate smoothly. If axial clearance is too large, adjust by fitting a washer D-2.55×4×0.06 under the screw SCS-1.7×2.2A.
10. GEAR 13667, CATCH 13687. Spare parts catalogue, page 2.
 - a) Grease both units ST-141.
Fit both the gears 13667 on their respective pins ST-141 and secure with two clips RY-1.9.
 - b) Lubricate ST-144.
Fit spring VF-128 on pin ST-144 and then fit the catch 13687 and washer D-2.25×4×0.1, securing with a clip RY-1.5. The long side of the spring is fitted on the top of the hub, NAV-194 and the bent end on the front of the catch. Check that the catch operates smoothly.
11. GEAR 21403, FILM FEEDER 13668. Spare parts catalogue, page 2.
 - a) Lubricate the hub NAV-194.
Insert the film feeder 13668 in the hub NAV-194 from the inside of the magazine and screw on the gear 21403 from the outside but note that the catch 13671 and the catch 13687 are moved out of the way when the film feeder 13668 is tightened. Use tool V-2240 for this purpose.
Check that the catch 13687 blocks gear 21403 when it is turned **anti-clockwise**.
12. HANDLE 21457. Spare parts catalogue, page 2.
 - a) Lubricate the upper surface on gear 21403.
Fit washer D-7.10×15×0.1 on gear 21403 and then lubricate the surface of the washer.
Check that pawl 12797 in the handle 21457 functions correctly. Fit the handle on gear 21403 and make sure that the pawl 12797 engages in one of the milled slots on the gear.
Tighten the screw SCS-2.3×3.5.
Adjustment: Check the handle for smooth operation by turning it **anti-clockwise**. If the handle should operate stiffly, replace the existing washer D-7.10×15×0.1 by a thinner washer — 0.05 mm.
13. COUNTER. Spare parts catalogue, page 2.
 - a) Fit spring DF-103 between the counter return stop 21414 and ST-117. Check for smooth operation.

- b) Lubricate ST-140.
Press washer D-6.2×8.55×1.20 down into the bottom of the spring housing 21401.
Fit coil spring 21407, see Fig. 2.
Then fit the counter wheel 13669 and make sure that the coil spring engages in the lug on the counter wheel.
Tension the spring by turning the counter wheel **clockwise** about two (2) revolutions so that the wheel returns distinctly against the counter return stop 21414. Secure with a clip RY-1.9. Check that the counter return stop engages positively with pin AT-426 on the underside of the wheel.
14. FILM GUIDE 21409. Spare parts catalogue, page 2.
- a) Press pin CP-2×6 into the film guide 21409 and fit the guide from the inside of the magazine with the flat side against the cassette shell. Tighten screw CS-1.7×6. Seal with safety lacquer. Check that the film feeler 13674 clears the film guide.
- Adjustment:** If necessary adjust the film feeler by bending.
15. COVER 30496. Spare parts catalogue, page 1.
- a) Fit the self-adhesive cover 30496 in position.
16. MAGAZINE SHELL 50115. Spare parts catalogue, page 3.
- a) Glue both the foam plastic strips 13685 in position using PLIOBOND on the top and bottom of the magazine support.
- b) Fit the cassette shell and screw it into position using eight (8) screws, three SFS-1.7×3.5 in the bottom, two SFS-1.7×5 on the top and three CS-1.7×2.5 from the inside through the brackets 21417.
- c) Glue on the leather 30459 and the memo tablet 21410 using PLIOBOND.
17. OUTER PLATE 13683, MISCELLANEOUS CATCHES, Spare parts catalogue, page 1.
- a) Lubricate the sliding surfaces for the locking arm 20843 in the magazine support.
Fit the spring DF-56 in the spring attachment on the locking arm with the free end on pin CP-1×8.5.
Fit the locking arm so that the slot in the bent section fits against the milled surface on locking knob 13670.
- b) Locate the locking spring 20684 and the exposure catch 20683 correctly in position.
- c) Fit both the springs 12262 in their respective recesses.
- d) Fit the light trap 13067 and the foil 13508 in accordance with the detailed figure on page 1 in the Repair Manual, Magazine 70.
- e) When the outer plate is being fitted, great help is provided by the magazine slide if the light trap and foil are pressed down with the slide at the same time as the outer plate 13683 is fitted. This plate is retained by eight screws FS-1.7×4.
Check that the locking spring 20684 does actually release the locking arm 20843 completely when the slide is fully pushed in. Also check that the exposure catch 20683 springs back when the slide is pulled out.
18. ADJUSTING THE FUNCTIONS OF THE MAGAZINE
- a) Turn gear 13665 with its cam 13666 so that the arm 13673 is in the same position as that shown in Fig. 2. Press in the zero button 13686 from the inside of the magazine and check that the arm 13673 and pawl 13679 fall into the catch teeth on the counter wheel 13669. When the zero button is released, both the "hooks" must clear the counter wheel so that it can rotate freely.
- Adjustment:** Both the angular stops "A" and "B" respectively on the zero lever 13672 are adjusted by bending in the required direction using tool V-2239. See Fig. 2.

- b) Press in the zero button from the inside of the magazine and turn the engagement spring in a clockwise direction at the same time using a screwdriver also from the inside. Check that the counter wheel 13669 feeds forward **one** unit for each revolution of gear 13665. Repeat this check at several points round the periphery of the counter wheel.

Adjustment: If the feed operation is not functioning satisfactorily, adjust the movement of the arm by turning the cam 13666. The two screws must be loosened to carry out this adjustment. When the screws have been re-tightened they must be sealed with safety laquer.

Adjustment: If the above operation is insufficient, replace the existing arm 13673 by a new unit.

- c) Fit the number disk 13670 on the counter wheel 13669 with the zero (0) downwards and tighten the two screws SCS-1.7×2.1. Note that the pin on the catch 13671 is located on the outside of the number disk. Fit in a cassette holder loaded with film.
The basic position for adjustment of the automatic feed stop is when the cam plate 13675 rests against the surface of the cam on gear 13665 and the counter is at zero (0).

Adjustment: Feed the film forward by turning handle 21457 **clockwise** — note that the metering mechanism does not start functioning until the film is stretched completely between the feed side and the take-up side — until the cam plate 13675 is in the position described above. See Fig. 3. Zero the counter by pressing the zero lever 13672 to the rear at its upper angular stop. This movement clears the arm 13673 and the pawl 13679 whereby the number disk returns to the "0" position. Now start film feed using handle 21457 and when gear 13665 has moved three (3) turns — corresponding to the feed of three (3) picture frames — the handle 21457 must be stopped by the catch 13671.

Now check that the number disk 13670 is at "1" in the provisionally fitted right cover 21459. If the catch 13671 blocks feed too early so that the cam plate 13675 does not fall down on the surface of the cam, this is adjusted by loosening both the screws SCS-1.7×2.1 and turning the number disk **anti-clockwise**. Tighten both the screws and then check again.

If catch 13671 blocks film transport too late so that gear 13665 with its cam disk rotates rather more than three (3) turns, adjust the number disk **clockwise**. Tighten both the screws and check again as described above. Seal the screws with safety laquer and remove the cassette holder. See also Fig. 3.

- d) Fit gear 13665 so that cam plate 13675 rests against the surface of the cam.
Fit the right cover 21459 provisionally and check that the exposure signal 13677 shows white in the front window.

Adjustment: If necessary adjust the front angular bent section of the signal by bending.

Clear the signal by moving the signal catch 13678 to the rear at the same time as the film signal 21408 is moved out of the way. Fit the right cover 21459 provisionally and check that the exposure signal 13677 shows red in the front window.

Adjustment: If necessary adjust the rear angular bent section of the signal by bending.

Check that the exposure signal is cocked during film transport by turning the engagement spring 21434 one complete turn clockwise from the inside of the magazine. Lift the right cover off.

Move the film signal 21408 out of the way and check with the help of tool V-4070 that the exposure signal 13677 is released only when the tool button is pressed in. (The function of the tool is to check the function of the signal in the magazine so that it does not change when S-release is used on 500C and 500EL).

Adjustment: The front angular bent section of the exposure signal is adjusted by bending either forwards or backwards.

Check that the cam plate 13675 is distinctly drawn in towards the cam surface by DF-110 and not counteracted by DF-111 when the exposure signal is cocked.

Adjustment: Shorten spring DF-110 by one turn.

- e) Check that the film signal 21408 operates smoothly and also that its rear section clears the surface of the pawl 13679.

Adjustment: The rear part of the film signal is adjusted by bending but not too far since means a risk of stiff operation when the right cover 21459 is fitted.

Check that the front part of the film signal blocks the signal catch 13678.

Adjustment: The front part of the film signal is adjusted by bending inwards.

Fit the right cover 21459 provisionally and check that the film signal shows red in the centre window and that it becomes white when the film-charged cassette holder is pushed in.

19. CHECKING THE POSITION OF THE LOWER GEAR 21447.

- a) Check with callipers that the dimension 5.0 ± 0.5 mm shown in Fig. 3 is correct. Should this dimension be **under** 4.5 or possibly **over** 5.5 mm, there is risk of the camera feed gear not corresponding with the magazine lower gear 21447 with the result that both the gears come into contact with tooth crown against tooth crown. The result is jammed feed.
Adjustment: Loosen both the screws CS-1.7×3 retaining the return stop 21432 and move the stop in the desired direction before tightening the screws hard. Check the specified measurement. If this adjustment does not help, the only thing to do is to fit a new return stop.

20. MAKING THE MAGAZINE LIGHT-TIGHT.

The light sealing system on magazine 70 differs considerably from the corresponding system used on our other magazines and must therefore be given great care and great accuracy.

- a) PERMATEX compound is forced into the pin S-1×3 for the guide pin 13689 using an injection syringe.
- b) Glue a single sealing cord 12944 in the slot on the cassette shell using PLIOBOND. Note that the cord is fitted double at both ends over a distance of about 1 cm.
- c) Fit two pieces of NEOPREN ϕ 1.5×20 mm in the slot on the right side of the cassette shell in order to cover the joint between the magazine support 30457 and the mechanism plate 30458.
- d) Black INSULATING TAPE, 7 mm wide, is located in the slot on the right side of the cassette shell and bent over the edge on the mechanism plate 30458, in order to seal the transition point between the mechanism plate and the cassette shell. Cut away the insulating tape at gear 21400 and also at the return stop 21432.
- e) PLIOBOND is then injected along the entire length of the slot.
- f) A foam plastic strip 12942, length 233 mm, is then pressed down into the same slot.
- g) PERMATEX compound is then injected from the inside of the cassette into each corner where the mechanism plate is bent.

21. FINAL ASSEMBLY AND CONTROL.

- a) Lubricate all gear surfaces.
- b) Fit the right cover 21459 and tighten in position with five screws, four FS-1.7×4 and one FS-1.7×5 through the upper part of the magazine support.
Adjustment: If the right cover 21459 bends inwards during tightening, adjusting washers D-1.75×3.5×0.2 are fitted under the pins on the right cover which do not reach down to the surface of the mechanism plate.
- c) Turn the number disk clockwise about one half of a turn and check that it returns distinctly when you release it.
- d) Fit the film-loaded cassette holder and check that the film signal 21408 functions. Fit the magazine on a camera body, for example 500C, and carry out a few metering tests. At the same time check the exposure signal 13677.
- e) Glue the leather 12288 onto the handle 21457.

22. FINISH.

- a) Clean the outer plate 13683 from grease and other impurities using ETHYL. Clean chromed surfaces and leather with a clean linen rag. Touch up painted surfaces with dull black paint where the paint has been scraped off.

INSTRUCTIONS FOR ASSEMBLING AND ADJUSTING THE CASSETTE HOLDER 70

23. Lubricate the centre pin AT-278 on lock 12728.
Fit the felt ring 12268 in position on the outside of the cassette end and fit the lock. Secure with a clip RY-4.
Adjustment: Any axial clearance is adjusted by fitting a washer D-6.5×9×A (A = assortment 0.1; 0.2; 0.3 mm) under the clip.
24. The intermediate part 21395 is screwed into position on the end plate 21396 using five screws FS-2×5. Tighten the screws extra hard.
25. Both the film guides 21389 are firmly tightened with two journals 12273. For this purpose use tool MV-12273.
26. Lubricate the pin and slot on the locking shaft 13662 and both the recesses in spring 12540. Place the locking shaft in the free hole in the end plate and make sure that the yoke fits the pin on the lock.
When fitting spring 12540, make sure that the larger recess corresponds with the slot in the locking shaft and the smaller slot with the pin on the lock.
27. Fit spring 13655 on pin AT-200.
28. Fit the pressure plate with its glued film guide on their respective pins and make sure that the angular bent section of the film guide registers with the locking lug on the locking shaft.
Push in both the pressure plate springs 21388 on the edges of the intermediate part.
29. Lubricate the holes in both the rollers using AEROSHELL No. 1 and locate the short roller 13660 on the feed side and the longer roller 13661 on the take-up side. Fit plate 21394 with four screws FS-1.7×4 but note that spring 13655 and locking shaft 13662 must be fitted in.
30. Check that both the two rollers 13660 and 13661 respectively as well as tooth wheel 21377 operate easily. Also check the functions of the locking handle and the pressure plate.
31. Before glueing on the leather 21387, glue two washers 12722 in both the recesses on the outside of the end plate. Glue on the nameplate 13268.
32. Glue on a single sealing cord 12944 using PLIOBOND all round in the slot on the end plate.
33. Finish. See point 22.

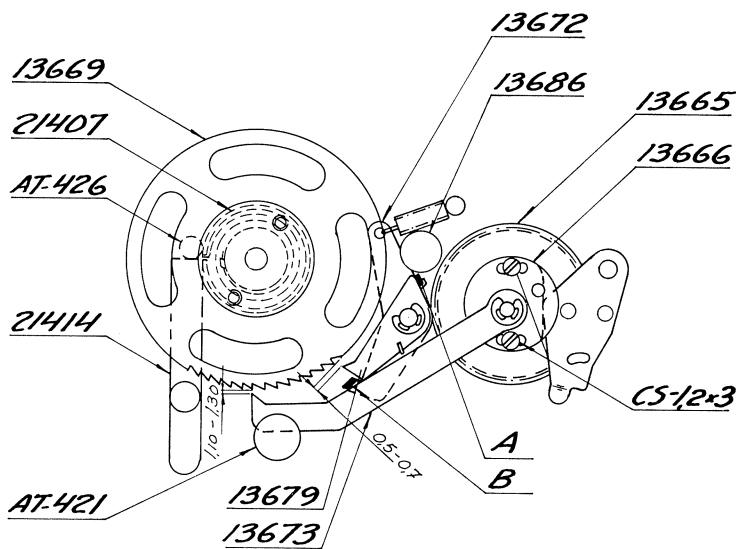


Fig. 2

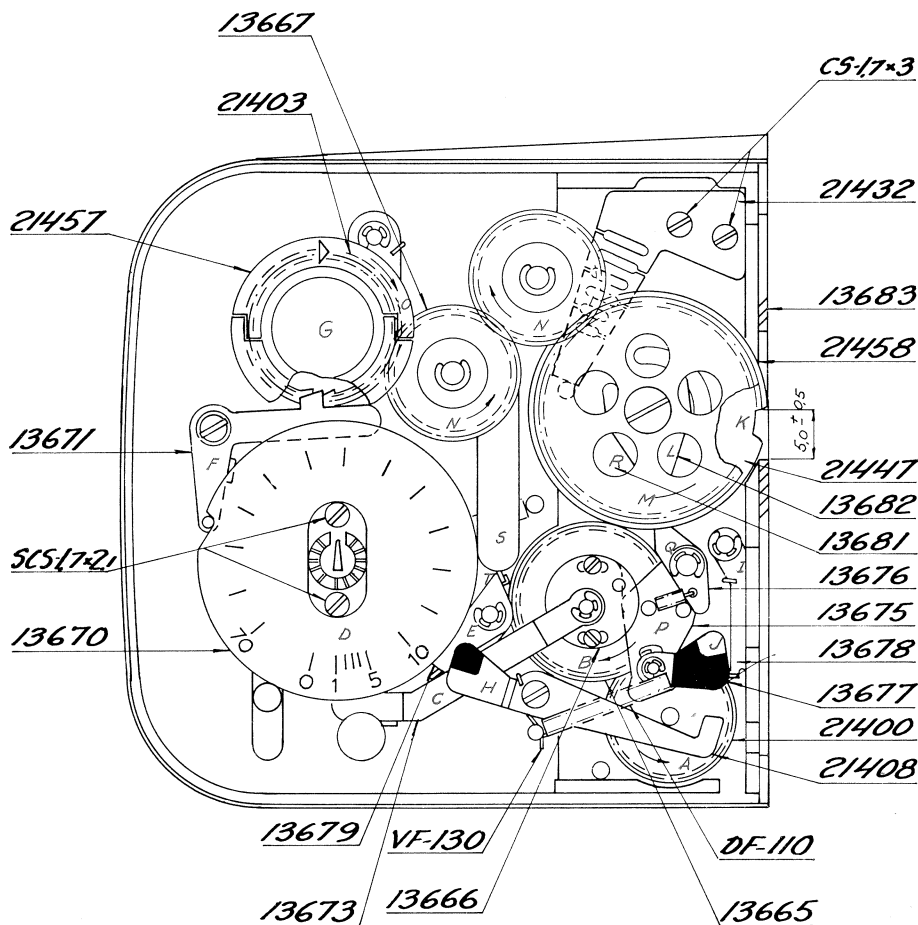


Fig. 3

DESCRIPTION OF FUNCTION OF HASSELBLAD MAGAZINE 70.

Transport of film to position for exposure.

A film-loaded cassette holder is fitted into the magazine. Turn the handle G (21457) clockwise and the handle should stop automatically after three frames. The function is as follows:

The mechanism is influenced by the film perforations feeding the tooth wheel 21377 via the coupling 21378 on the cassette holder. This movement is transmitted to the magazine mechanism via the engagement spring 21434 whereby gear A (21400) rotates anti-clockwise and influences gear B (13665) which rotates clockwise. On gear B there is a cam (13666) which actuates arm C (13673). Each revolution made by gear B corresponds to one metering action and arm C moves the number disk D (13670) one step forward. The pawl E (13679) functions as a non-return catch for the number disk D.

When the film has been transported a distance corresponding to three frames, gear B has thus rotated three turns and the arm C at the same time moves the number disk D three steps forward from 0 to 1. In this position the catch F (13671) falls into the recess on the number disk D and the other end of the catch blocks the handle G. The film signal H (21408) is actuated by the film via the film feeler 13674 and gives a white signal in the rear window when there is film in the correct position for exposure.

Fit the magazine on a camera body and when the magazine slide has been removed, the first exposure can be made.

During the exposure, the signal catch I (13678) is pushed to the rear by the camera release rod and the exposure signal J (13677) is released and shows a red colour in the front window.

Automatic film transport and metering.

When the camera is cocked again after exposure, the camera transport gear actuates the lower gear K (21447) in the return coupling 21458. Through the catch L (13682) which engages in the inner teeth on the upper gear M (21532), this gear rotates together with the lower gear K and drives the film spool on the take-up side via gear N (13667) and gear O (21403) with the film feeder 13668.

During the first phase of transport, the exposure signal J is cocked on the signal catch I by the cam on gear B pushing the cam plate P (13675) forwards. During continued rotation, the cam 13666, fitted on gear B, influences arm C, which in its turn feeds forward the number disk D **one** step. Film metering is determined by the cam on gear B. When the cam has rotated **one** complete revolution, the cam plate P is drawn in towards the cam surface by the spring DF-110 and catch Q (13676) moves in towards the toothed segment of the cam disk. The cam disk R stops in this position and the catch L is moved out of the engagement with the internal teeth on gear M. Gear M stops immediately and also film transport. The lower gear K, however, continues to rotate until the space in the teeth on the camera transport gear comes into contact with gear K which is then released and returns to its basic position.

The stop for the return coupling 21458 consists of a pin on the cam disk R which comes into contact with the return stop 21432. The catch L which is influenced by the cam disk slot, is released and pushed out towards the teeth in gear M by spring 13699. The magazine is now ready for the next exposure.

Automatic Exposure stop

When the last picture on the film has been exposed and transport carried out, the film feeler 13674 is released and this is connected with the film signal H, the front part of which moves upwards and prevents the signal catch I from being pushed to the rear by the camera release rod. This provides automatic exposure stop when the film is finished at the same time as a red colour is shown in the rear window.

Automatic return to zero of counter

When the cassette holder is removed from the magazine, the counter is automatically returned to zero through the zero button 13686 being released and its tapered section pressing the zero lever T to the rear and thus releasing the arm C and the catch E from the counter so that it can return to zero.

Specification for

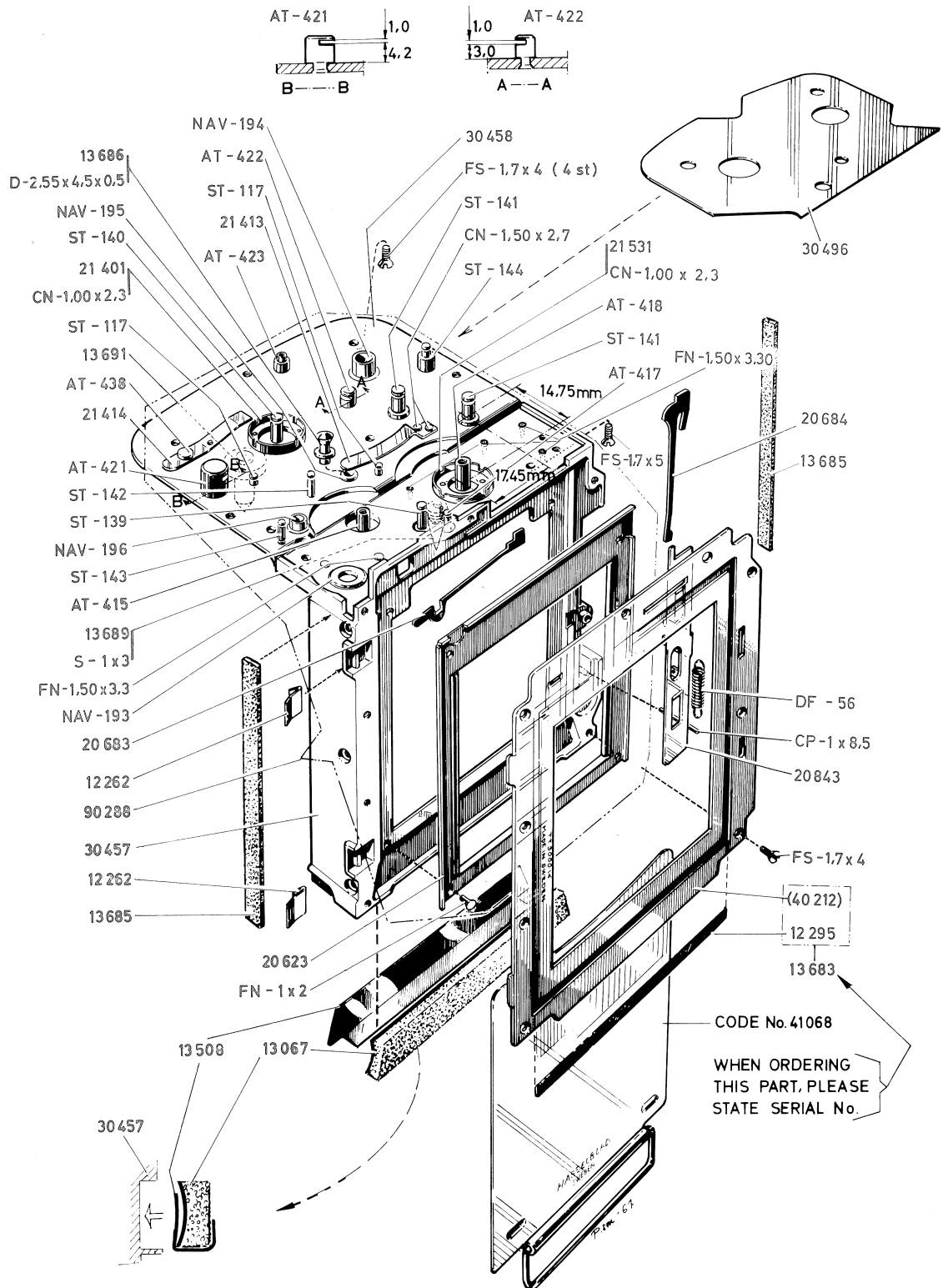
H A S S E L B L A D
MAGAZINE 70

1

Pcs	Part No.	Description	Price (each)	Next assy.	Remark
2	12262	Spring		50118	Please state serial number
1	12295	Ribbon		13683	
1	13067	Light-trap		50118	
1	13508	Foil		50118	
1	13683	Outer plate: complete		50118	
2	13685	Foam plastic strip		50118	
1	13686	Zero button		30458	
1	13689	Guiding pin		30457	
1	13691	Spool centre		30458	
1	20623	Frame		90288	
1	20683	Locking spring		50118	
1	20684	Locking spring		50118	
1	20843	Locking arm		50118	
1	21401	Spring housing		30458	
1	21413	Plate spring		30458	
1	21414	Counter return stop		30458	
1	21531	Spring housing		30457	
1	30457	Magazine support		90288	
1	30458	Mechanism plate		90288	
1	30496	Cover		90288	
1	40212	Outer plate	×	13683	See part number 13683
1	90288	Magazine body: assy		50118	
1	AT-415	Pin		30457	
1	AT-417	Pin		30457	
1	AT-418	Pin		30457	
1	AT-421	Pin		30458	
1	AT-422	Pin		30458	
1	AT-423	Pin		30458	
1	AT-438	Pin		30458	
4	CN-1,00×2,3	Rivet		30457-58	
2	CN-1,50×2,7	Rivet		30458	
1	CP-1×8,5	Cylinder pin		30457	
1	D-2,55×4,5×0,5	Washer		30458	
1	DF-56	Draw spring		50118	
4	FN-1×2	Rivet		90288	
7	FN-1,50×3,3	Rivet		90288	
12	FS-1,7×4	Screw		50118	
1	FS-1,7×5	Screw		50118	
1	NAV-193	Hub		30457	
1	NAV-194	Hub		30458	
1	NAV-195	Hub		30458	
1	NAV-196	Hub		30458	
1	S-1×3	Pin		90288	
2	ST-117	Pin		30458	
1	ST-139	Pin		30457	
1	ST-140	Pin		30458	
2	ST-141	Pin		30458	
1	ST-142	Pin		30458	
1	ST-143	Pin		30458	
1	ST-144	Pin		30458	
		Slide	▲		Code No. 41068

× = This part will not be supplied
▲ = This part should be ordered from the Sales Department

Magazine 70 from serial number TT 300001 —



Drawing number for magazine without cassette holder = 50118

Specification for

H A S S E L B L A D
MAGAZINE 70

2

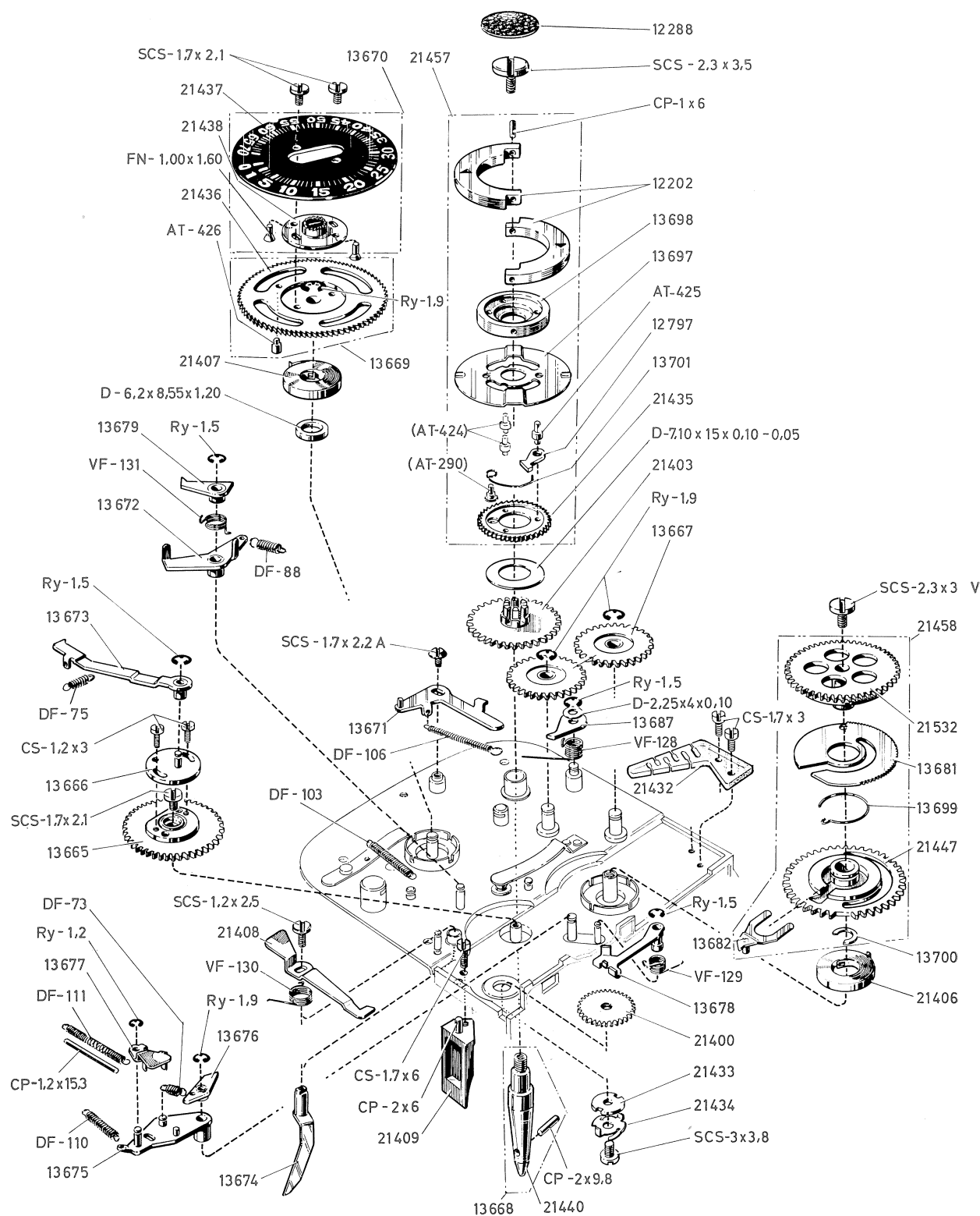
Pcs	Part No.	Description	Price (each)	Next assy.	Remark
2	12202	Handle		21457	
1	12288	Leather		50118	
1	12797	Pawl		21457	
1	13665	Gear		50118	
1	13666	Cam		50118	
2	13667	Gear		50118	
1	13668	Film feeder: complete		50118	
1	13669	Counter wheel: complete		50118	
1	13670	Number disk: complete		50118	
1	13671	Catch		50118	
1	13672	Zero-lever		50118	
1	13673	Arm		50118	
1	13674	Film feeler		50118	
1	13675	Cam plate		50118	
1	13676	Catch		50118	
1	13677	Exposure signal		50118	
1	13678	Signal catch		50118	
1	13679	Pawl		50118	
1	13681	Cam disk		21458	
1	13682	Catch		21458	
1	13687	Catch		50118	
1	13697	Spring plate		21457	
1	13698	Centre		21457	
1	13699	Spring		21458	
1	13700	Clip		21458	
1	13701	Spring		21457	
1	21400	Gear		50118	
1	21403	Gear		50118	
1	21406	Coil spring		50118	
1	21407	Coil spring		50118	
1	21408	Film signal		50118	
1	21409	Film guide		50118	
1	21432	Return stop		50118	
1	21433	Washer		50118	
1	21434	Engagement spring		50118	
1	21435	Ratchet wheel		21457	
1	21436	Counter wheel		13669	
1	21437	Number disk		13670	
1	21438	Centre		13670	
1	21440	Film feeder		13668	
1	21447	Gear, lower		21458	
1	21457	Handle: complete		50118	
1	21458	Return coupling: complete		50118	
1	21532	Gear, top		21458	
1	AT-290	Pin	×	21457	
2	AT-424	Pin	×	21457	
1	AT-425	Pin		21457	
1	AT-426	Pin		13669	
2	CP-1×6	Cylinder pin		21457	
1	CP-1,2×15,3	Cylinder pin		50118	

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Pcs	Part No.	Description	Price (each)	Next assy.	Remark
1	CP-2×6	Cylinder pin		50118	A=assortment 0,05; 0,1 mm
1	CP-2×9,8	Cylinder pin		13668	
2	CS-1,2×3	Screw		50118	
2	CS-1,7×3	Screw		50118	
1	CS-1,7×6	Screw		50118	
1	D-2,25×4×0,10	Washer		50118	
1	D-6,2×8,55×1,20	Washer		50118	
1	D-7,10×15×A	Washer		50118	
1	DF-73	Draw spring		50118	
1	DF-75	Draw spring		50118	
1	DF-88	Draw spring		50118	
1	DF-103	Draw spring		50118	
1	DF-106	Draw spring		50118	
1	DF-110	Draw spring		50118	
1	DF-111	Draw spring		50118	
2	FN-1,00×1,60	Rivet		13670	
1	RY-1,2	Clip		50118	
4	RY-1,5	Clip		50118	
4	RY-1,9	Clip		50118	
1	SCS-1,2×2,5	Screw		50118	
3	SCS-1,7×2,1	Screw		50118	
1	SCS-1,7×2,2A	Screw		50118	
1	SCS-2,3×3V	Screw		50118	
1	SCS-2,3×3,5	Screw		50118	
1	SCS-3×3,8	Screw		50118	
1	VF-128	Torsion spring		50118	
1	VF-129	Torsion spring		50118	
1	VF-130	Torsion spring		50118	
1	VF-131	Torsion spring		50118	

Magazine 70 from serial number TT 300001 —



Drawing number for magazine without cassette holder = 50118

Specification for

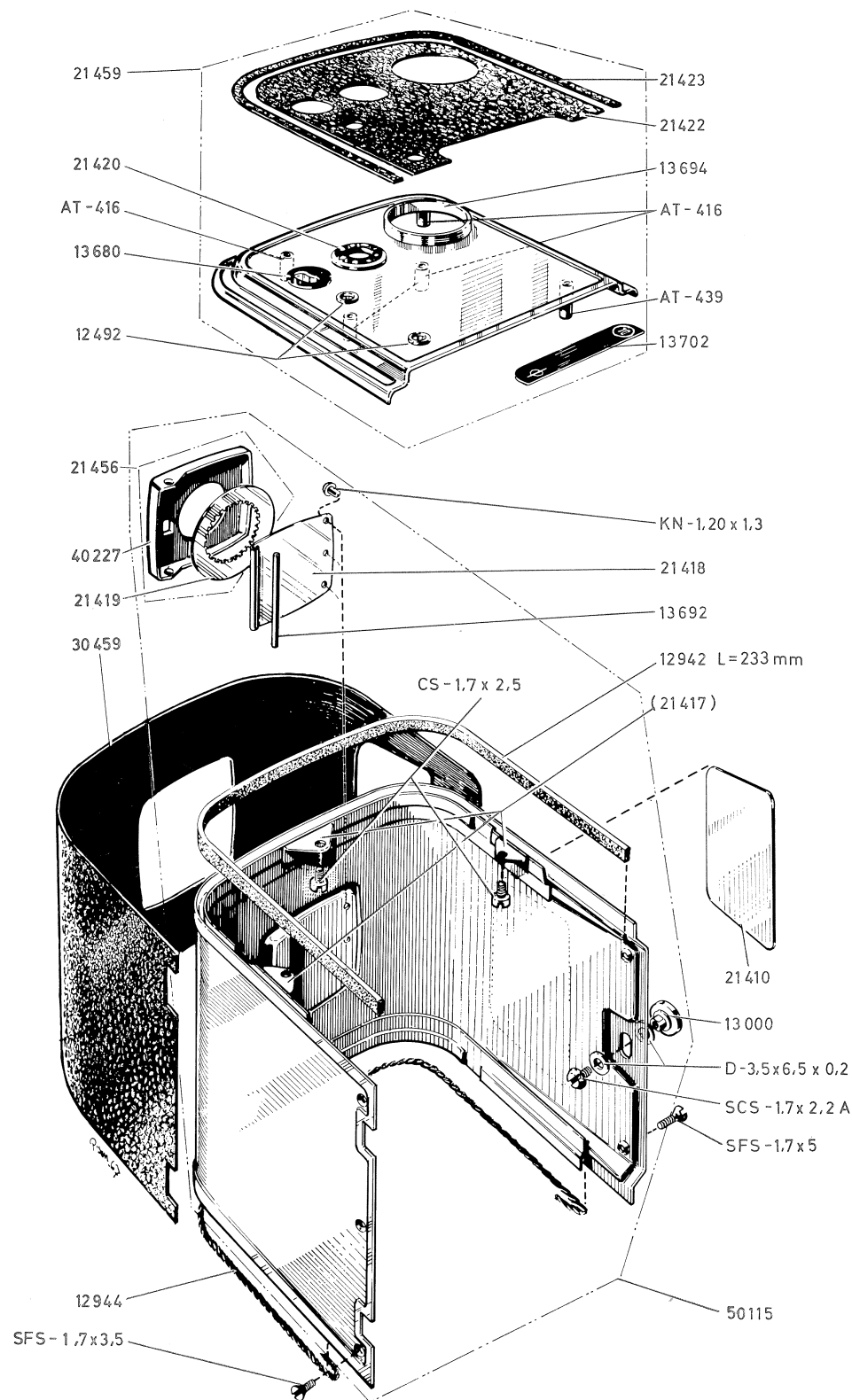
H A S S E L B L A D
MAGAZINE 70

3

Pcs	Part No.	Description	Price (each)	Next assy.	Remark
2	12492	Window	×	21459	L = 233 mm
1	12942	Foam plastic strip		50118	
1	12944	Sealing cord		50118	
1	13000	Locking knob		50115	
1	13680	Counter window		21459	
1	13692	Shaft		50115	
1	13694	Ring		21459	
1	13702	Name plate		21459	
1	21410	Memo tablet		50118	
3	21417	Bracket		50115	
1	21418	Plate spring		50115	
1	21419	Dial		21456	
1	21420	Ring		21459	
1	21422	Leather		21459	
1	21423	Leather		21459	
1	21456	Cover: complete		50115	
1	21459	Cover, right: complete		50118	
1	30459	Leather		50118	
1	40227	Cover		21456	
1	50115	Magazine shell: assy.		50118	
4	AT-416	Pin		21459	
1	AT-439	Pin		21459	
3	CS-1,7 × 2,5	Screw		50118	
2	D-3,5 × 6,5 × 0,2	Washer		50115	
3	KN-1,20 × 1,3	Rivet		50115	
1	SCS-1,7 × 2,2A	Screw		50115	
3	SFS-1,7 × 3,5	Screw		50118	
2	SFS-1,7 × 5	Screw		50118	

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Magazine 70 from serial number TT 300001 —



Drawing number for magazine
without cassette holder = 50118

Specification for

H A S S E L B L A D
MAGAZINE 70

4

Pcs	Part No.	Description	Price (each)	Next assy.	Remark
1	12266	Handle		12728	
1	12267	Spring		12728	
1	12268	Felt ring		40211	
2	12273	Journal		40211	
1	12288	Leather		12728	
1	12540	Spring		40211	
2	12722	Shim		40211	Assortment 0,1; 0,2; 0,3 mm
1	12724	Ground plate		12727	
1	12726	Plate		12727	
1	12727	Lock		12728	
1	12728	Lock: complete		40211	
1	12944	Sealing cord		40211	
1	13268	Name plate		40211	
1	13650	Fastening		21394	
2	13654	Spool centre		21396	
1	13655	Spring		40211	
1	13659	Pressure plate: complete		40211	
1	13660	Roller, short		40211	
1	13661	Roller, long		40211	
1	13662	Locking shaft		40211	
1	21375	Holder		21394	
1	21376	Holder		21394	
1	21377	Tooth wheel		21394	
1	21378	Coupling		21394	
1	21381	Pressure plate	×	13659	See part number 13659
1	21382	Guide plate	×	13659	See part number 13659
1	21386	Cap	×	21396	
1	21387	Leather		40211	
2	21388	Plate spring		40211	
2	21389	Film guide		40211	
1	21393	Plate		21394	
1	21394	Plate: complete		40211	
1	21395	Intermediate part: complete		21396	Please state serial number
1	21396	End plate, left: complete		40211	Please state serial number
1	30452	Intermediate part	×	21395	See part number 21395
1	40211	Cassette holder: complete			Please state serial number
1	AT-200	Pin		21395	
1	AT-278	Pin		12727	
1	AT-414	Pin		21396	
2	CP-1×6	Cylinder pin		12728	
2	CP-1,8×5	Cylinder pin		21395	
2	D-3,00×20×2	Washer		21396	
1	D-4,6×10×0,05	Washer		21394	
1	D-6,5×9×A	Washer		40211	A = assortment 0,3; 0,5 mm
4	FS-1,7×4	Screw		40211	
5	FS-2×5	Screw		21396	
1	RY-4	Clip		40211	
1	S-1×4,5	Pin		12728	
1	SCS-1,7×2	Screw		12728	
		Film cassette	▲		Code No. 51039

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Cassette holder for magazine 70 from serial number TT 300001 —

