

**OLYMPUS
OM 4
REPAIR MANUAL**

*Complimentary Copy
for Resale*



CONTENTS

OM 4 REPAIR MANUAL

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NOTE: Some of the information in this manual
is specific to either early or later
production cameras and may not apply
to the model you are working on. Wiring
and circuit diagrams are supplied for
both early (ROM 1) and later (ROM 4)
models.

A. GENERAL OUTLINE

1. Outline of Product

Model name : OLYMPUS OM-SYSTEM OM-4
House code : MDY-2

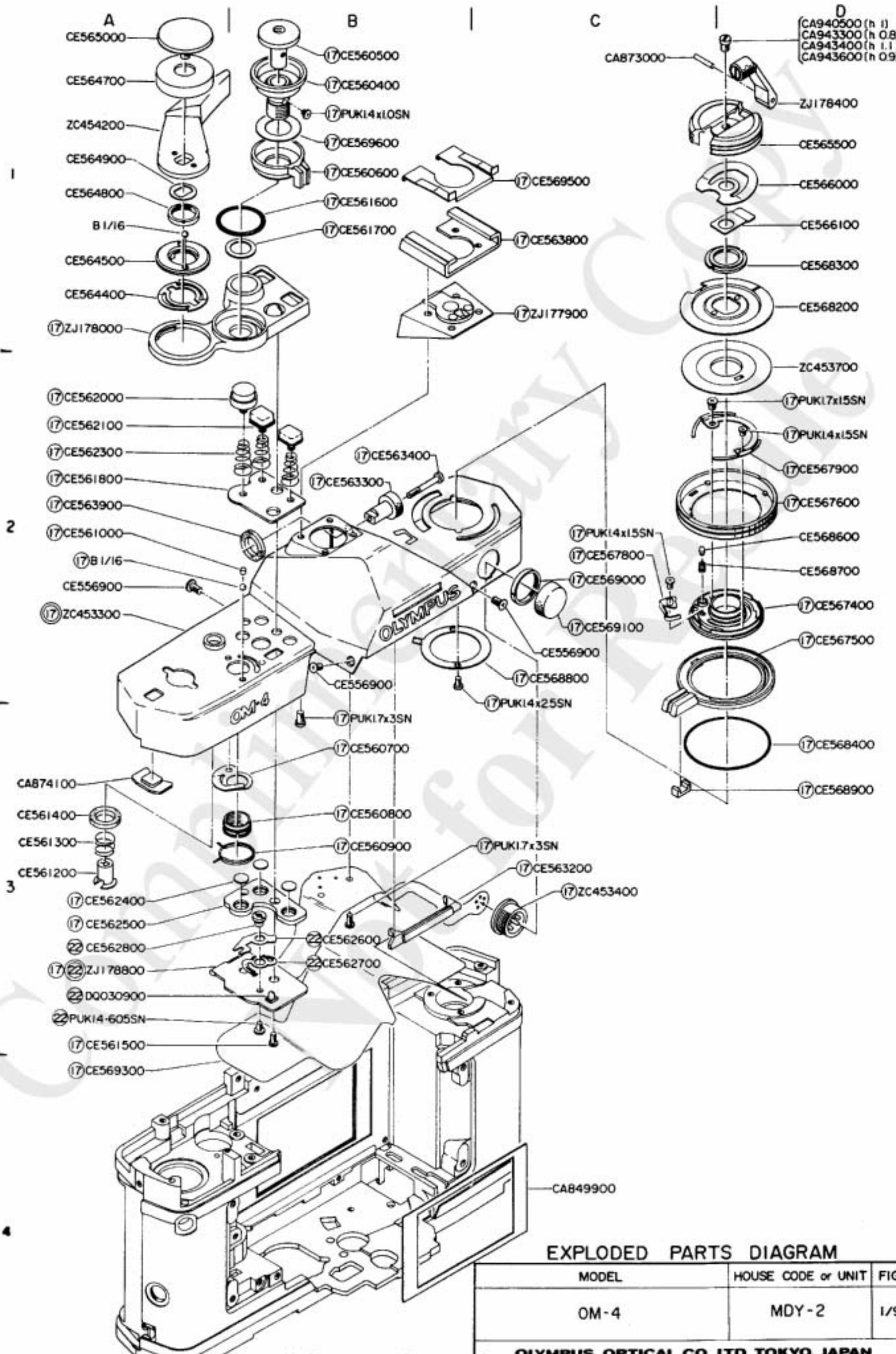
2. Main Specifications

- Type : TTL auto-exposure SLR camera
- Film format : 24 mm x 36 mm
- Lens mount : Olympus OM mount
- Shutter : Electronically controlled focal plane shutter with horizontally travelling cloth curtain; 1 to 1/2000 sec., shutter speed; 1/60 sec., mechanical shutter speed.
- Synchronization : X contact (synchronization at speed of 1/60 sec. or slower); hot shoe with contacts for T-series flash; 5-pin connector for T-series flash; synchro socket (JIS type)
- Light measuring method : Center-weighted average light measurement, switchable to spot measurement; measuring spot at the microprism area of the finder screen; spot metering selective in 3 modes; multi-spot measurement, highlight- and shadow-based methods
Light measuring range: 0EV to 19 EV (ISO/ASA 100, 50 mm at F1.4)
- Automatic exposure control by average light measurement : TTL direct "off-the-film" light measuring with aperture-preferred electronic shutter; exposure control range; about 1 min. ~ 1/2000 sec. (approx. -5 EV ~ 19 EV at ISO/ASA 100, 50 mm F1.4, normal temperature and humidity); ±2 EV exposure compensation
- Automatic exposure control by spot measurement : TTL spot metering memory system (AE lock); exposure control range: about 4 min. ~ 1/2000 sec. (approx. 0 EV ~ 19 EV at ISO/ASA 100, 50 mm F1.4, normal temperature and humidity); multiple spot method, highlight method and shadow-based method selectable; ±2 EV exposure compensation..
- Automatic exposure memory control : Exposure value memory system (60 min. limiter)
Automatic exposure value, obtained by TTL direct light metering stored in average light measurement mode EE lock value obtained by spot light measurement stored.
- Manual exposure control : B, 1 sec. ~ 1/2000 sec., mechanical exposure time 1/60 sec.
X contact synchronized at speeds of 1/60 sec. or slower
- Film sensitivity : ISO/ASA 6 ~ 3200
- Film advance : Film advancer lever with 130° angle for one long or several short strokes and pre-advance angle 30°; motor drive and winder usable
- Film rewind : Rewind crank (motorized rewind with Motor Drive 2 possible)
- Viewfinder : Viewfinder with dioptric correction; +1, 0 ~ -3 diopters; with dioptric correcting lock mechanism; interchangeable focusing screens; microprism/split image-matter standardized (1 ~ 13 types)
Finder view-field: 97% of actual picture field
Magnification: 0.84X at infinity with -0.15 diop. and 50 mm lens

Viewfinder information	: LCD multi-mode display; built-in illuminator (10 sec. limiter) Indication limiter 120 sec. Suitable shutter speeds 1 ~ 1/2000 sec. indicated by a bar in 1/3 EV steps Luminance of photographic body indicated by a dot and calculated value indicated by a bar in spot light measurement mode Indication marks: SPOT, HIGHLIGHT and SHADOW Mark indication on red LED upon completing flash charging Suitable strobe flashing indicated by flickering of red LED in flash mode Over and under exposure indicated by OVER and UNDER marks Definite point matching and set shutter speed indicated in manual exposure mode MEMO mark indicated upon setting and MEMO mark flickers upon completion in exposure memory mode
Mirror	:
Self-timer	:
Battery check	:
Power source	:
Camera back	:
Dimensions	:
Weight	:

EXPLANATION OF MARKS

- (1) Indicates parts that are supplied both as a single piece and as an assembled unit. In this case, the single part is incorporated in the assembled unit indicated with the mark (1).
Exception: Parts in the mark () are not supplied in single pieces.
(Parts that are supplied only in single pieces are not indicated with any mark. While parts that are supplied as an assembled unit are prefixed with "Z" or "U".)
- [] Several types of parts for the same position are available, from which most suitable one is to be selected.
- * 3 Parts differ according to different models and types. This mark is used to indicate various combinations in a picture.
- (L) Left-handed screw. The mate screw hole is not marked particularly.
- (X) Indicates parts that should not be touched directly by bare hand because special surface treatment is applied. Wear fingerstalls or use tweezers.
- (★) Not supplied as a repair part.
- (■) Used exclusively for black finish models.
- (—) Indicates original parts. New, modified ones are not indicated with this mark. Both original and modified parts are supplied.
- (=) No more available parts due to design change or out of stock.
- (X) A correction mark. Parts with this mark are not available.
- < 2 > Modified parts that are unable to show in the technical manual. The figure indicates reference page number.
- 2-A3 This notation is entered in the "Remarks" column of parts list and indicates parts position in the technical manual.
- 2-A3 → Parts position The technical manual is divided into 16 equal sections. Each section can be identified by using A, B, C and D from left to right and 1, 2, 3 and 4 from top to bottom.
- Indicates page number in which the technical manual appears. However, 1.1 (page 1 of 1) is not indicated particularly.

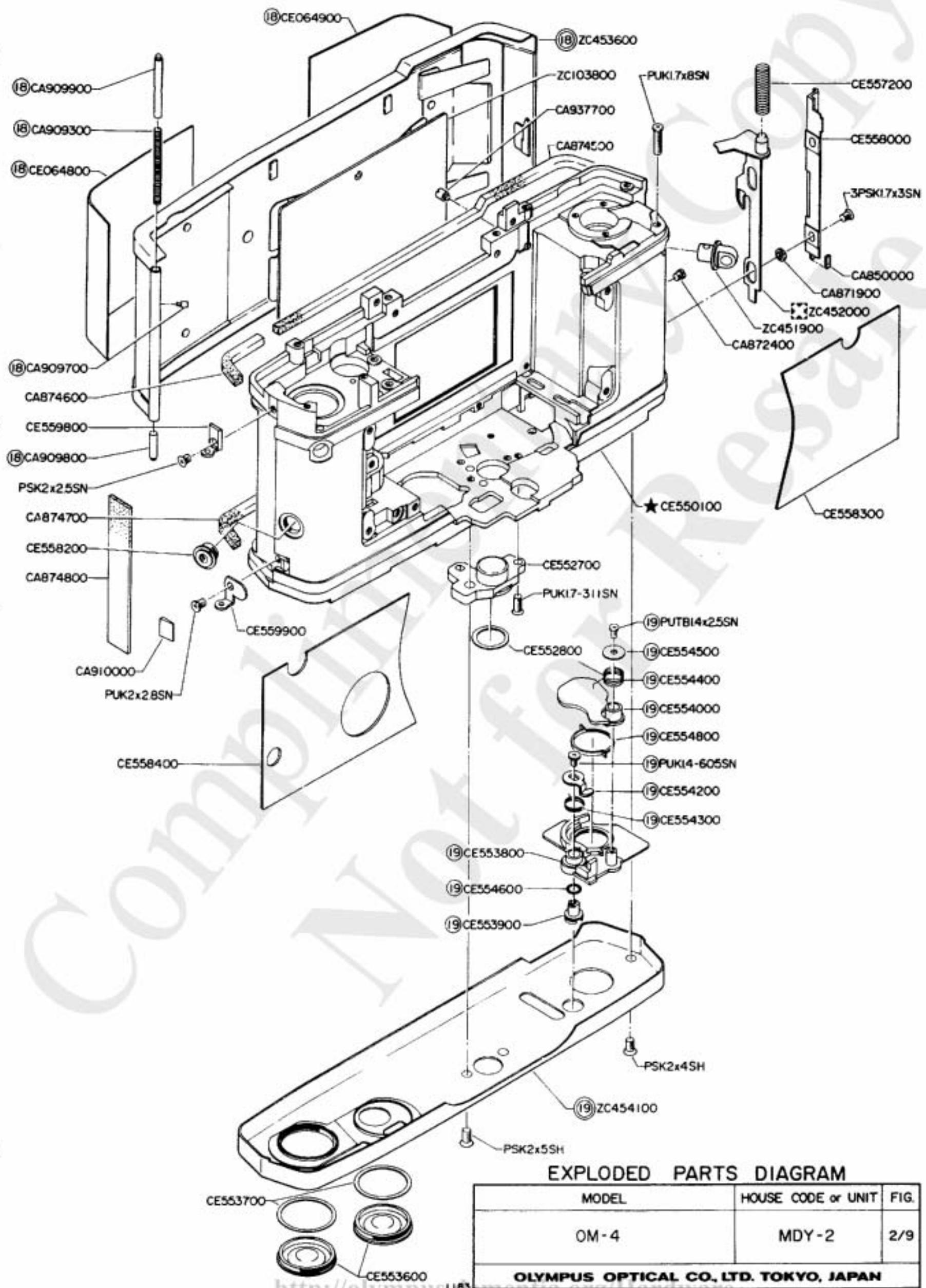


A

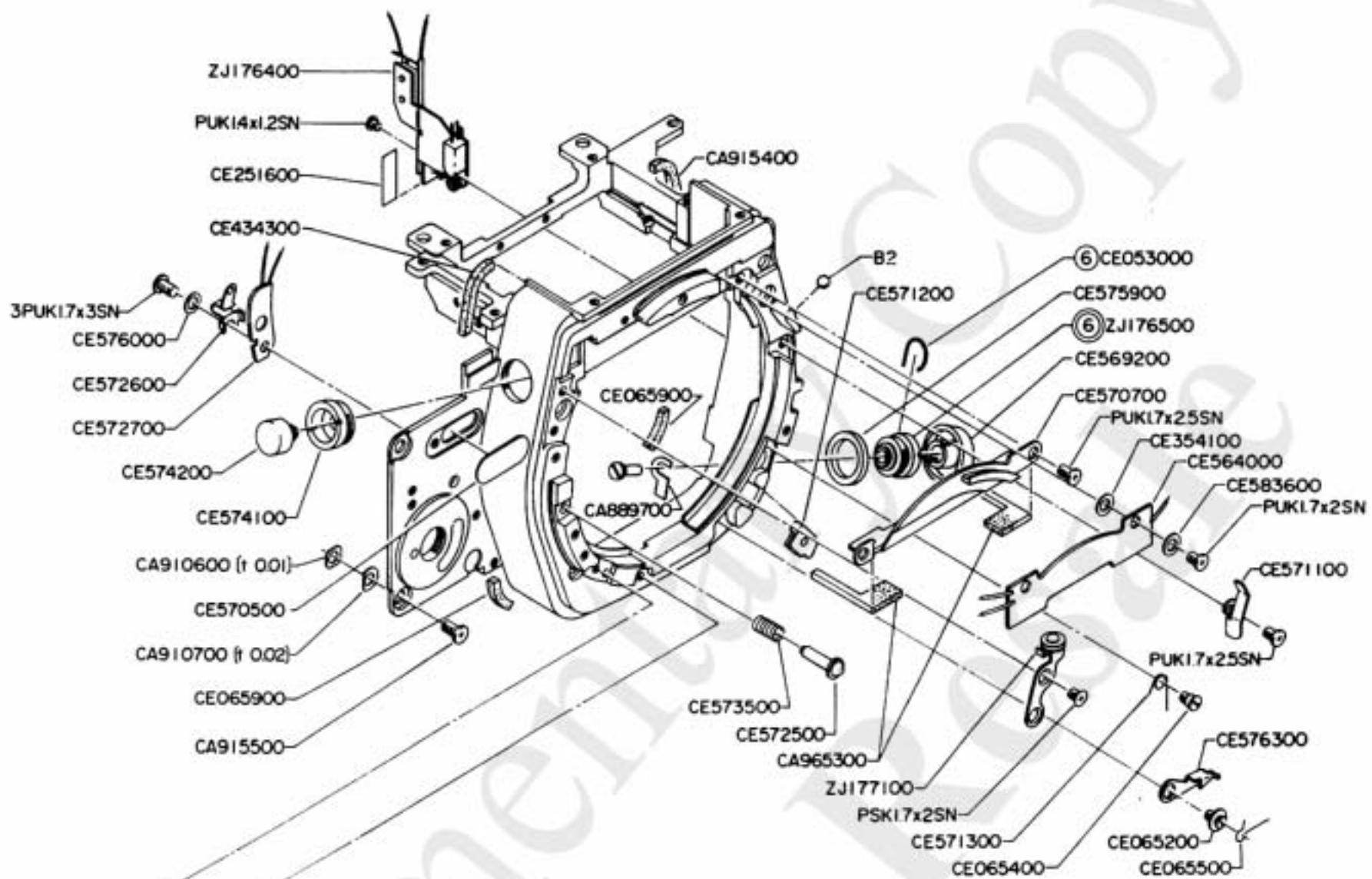
B

C

D



A B C D



2

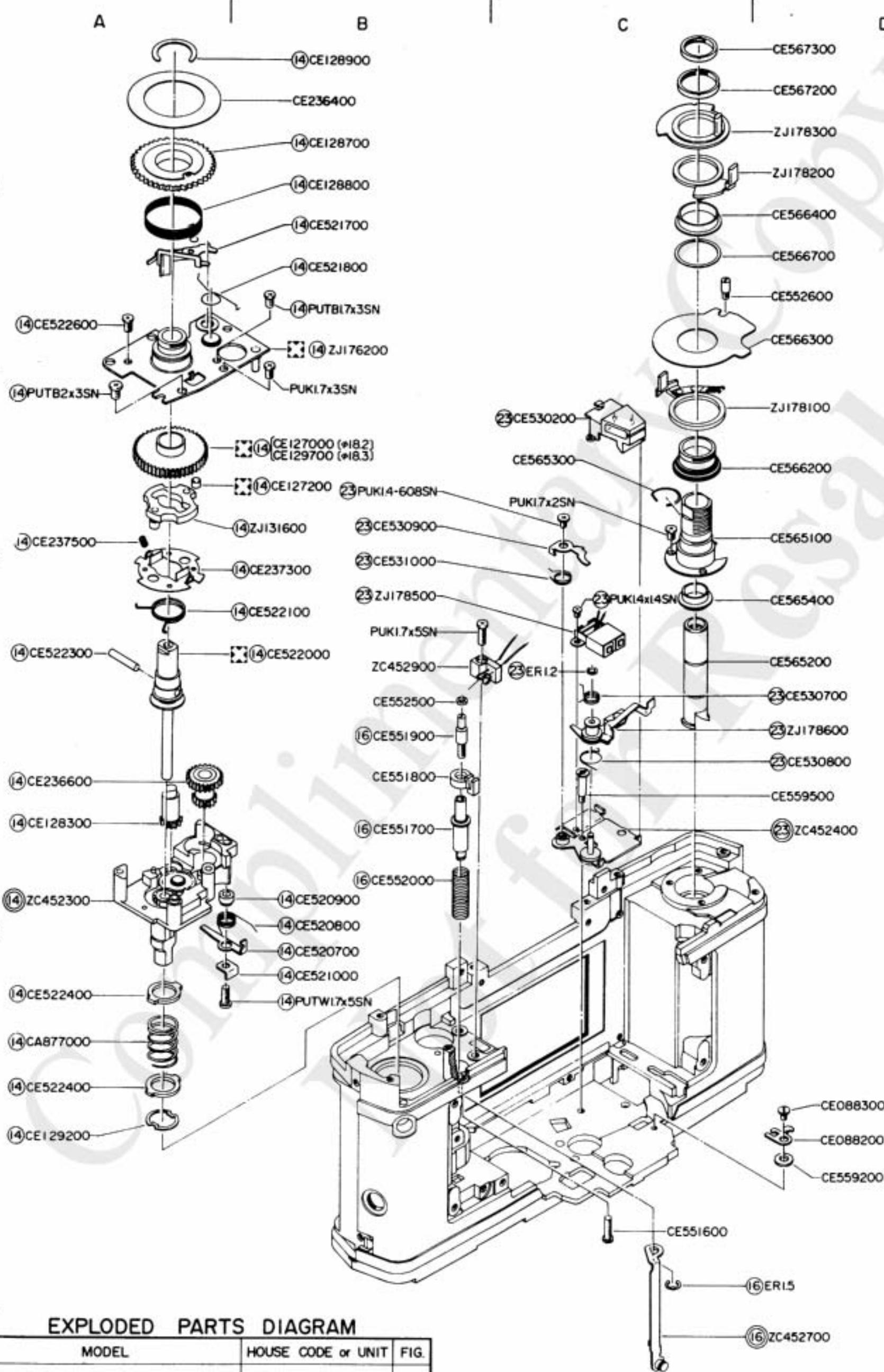
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4

EXPLODED PARTS DIAGRAM

MODEL	HOUSE CODE or UNIT	FIG.
OM-4	MDY-2	3/9

OLYMPUS OPTICAL CO., LTD. TOKYO, JAPAN

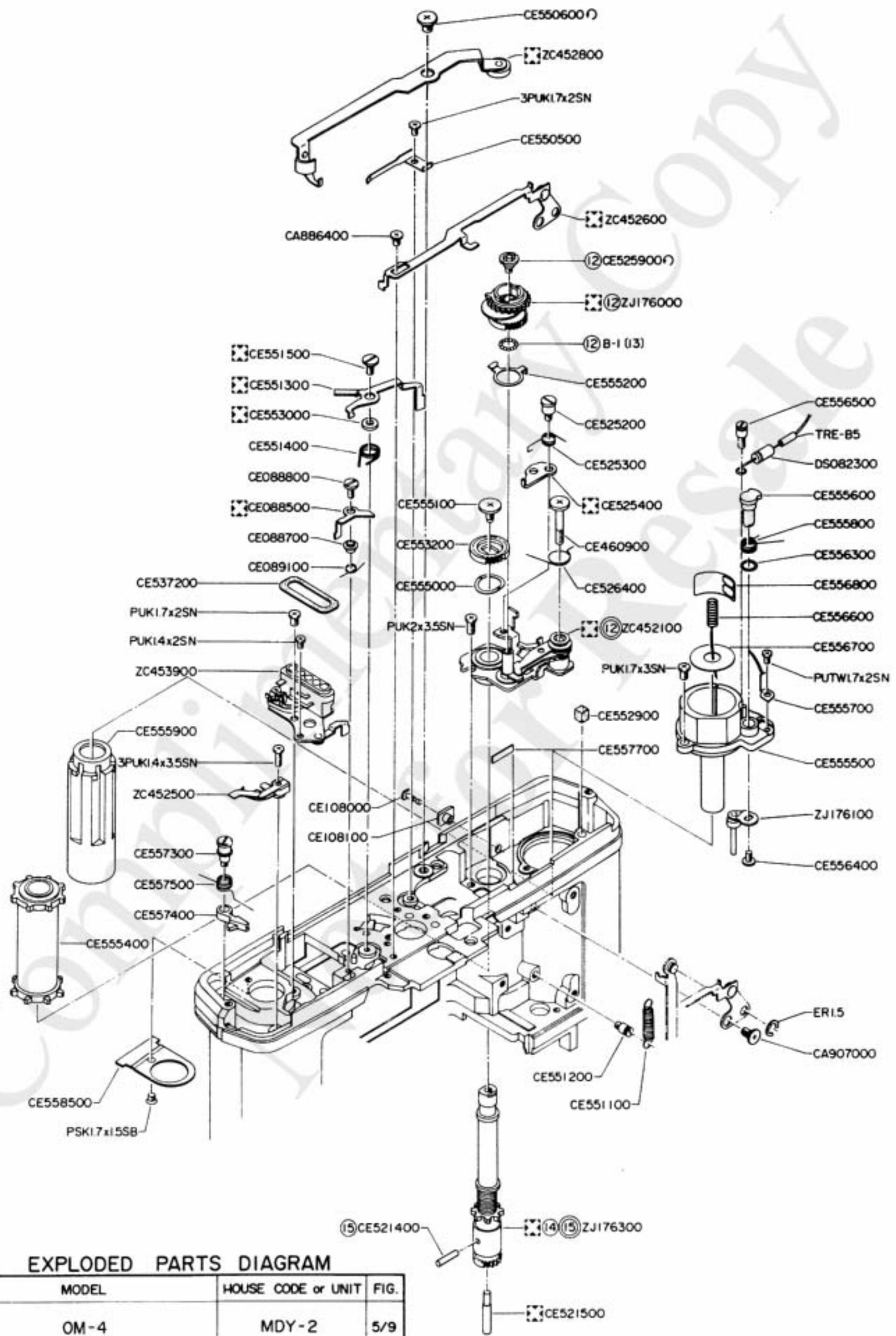


EXPLDED PARTS DIAGRAM

MODEL	HOUSE CODE or UNIT	FIG.
OM-4	MDY - 2	4/9

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A B C D

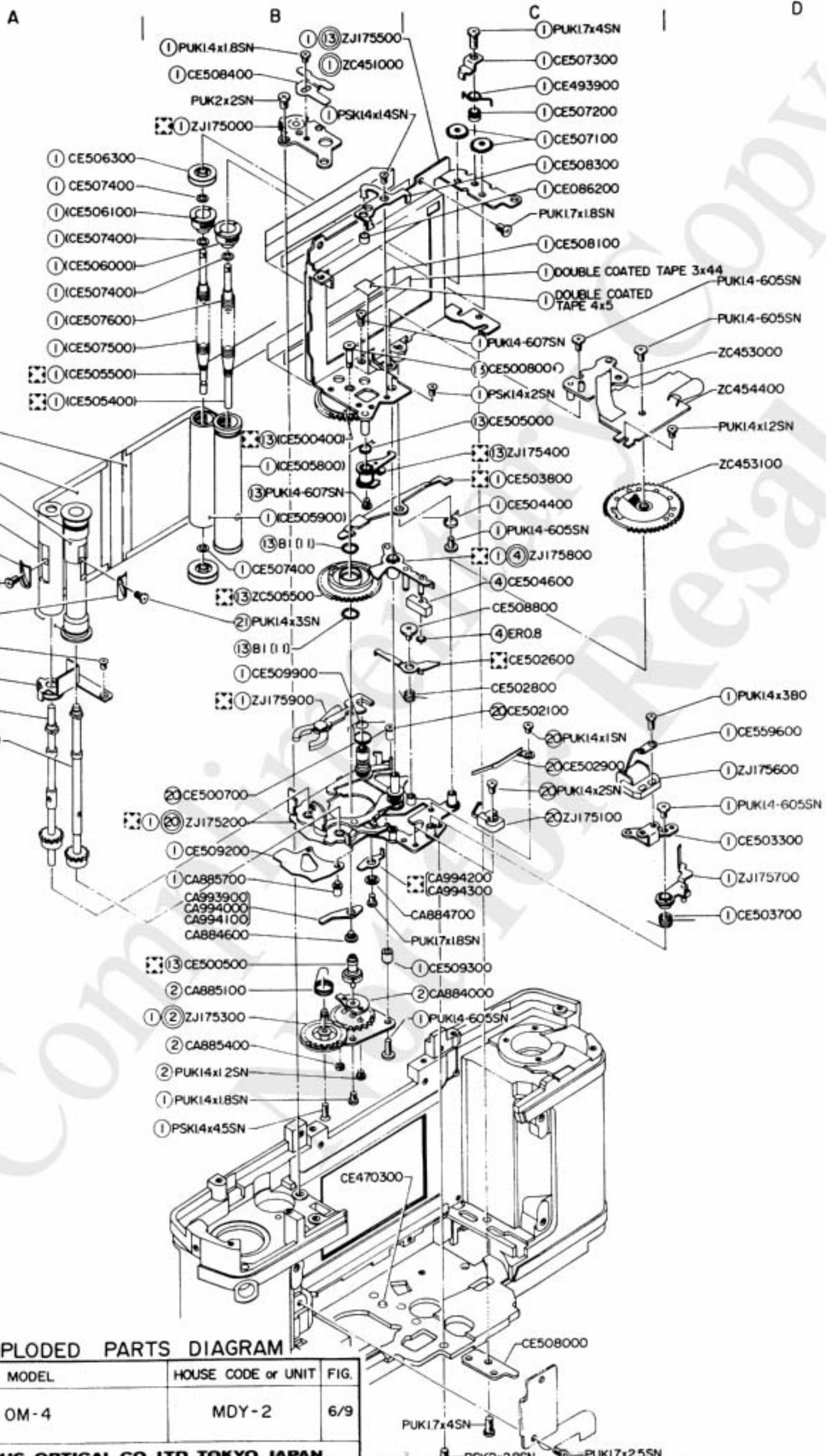


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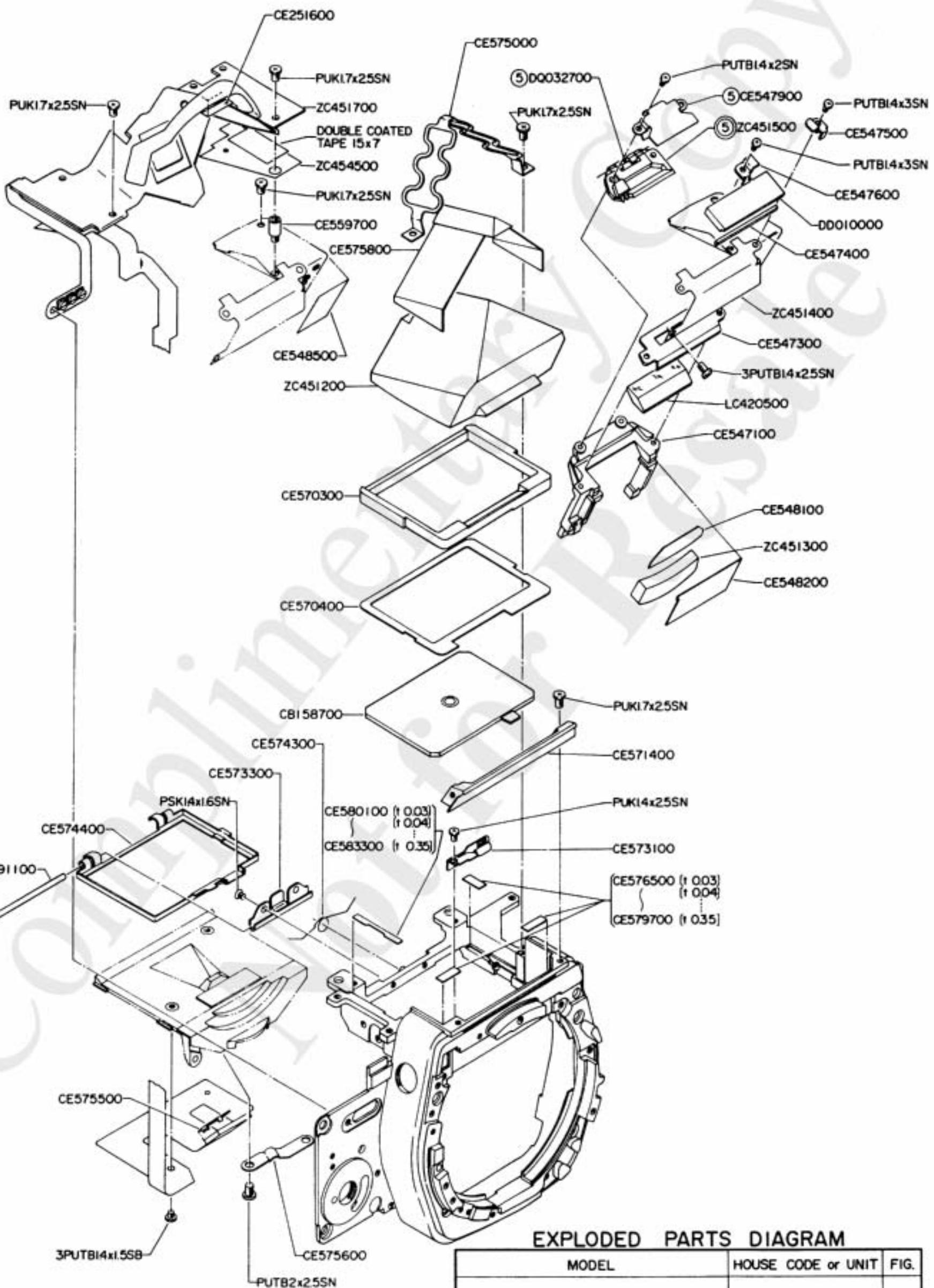
EXPLODED PARTS DIAGRAM

MODEL	HOUSE CODE or UNIT	FIG.
OM-4	MDY-2	5/9

OLYMPUS OPTICAL CO., LTD. TOKYO, JAPAN



A | B | C | D



EXPLODED PARTS DIAGRAM

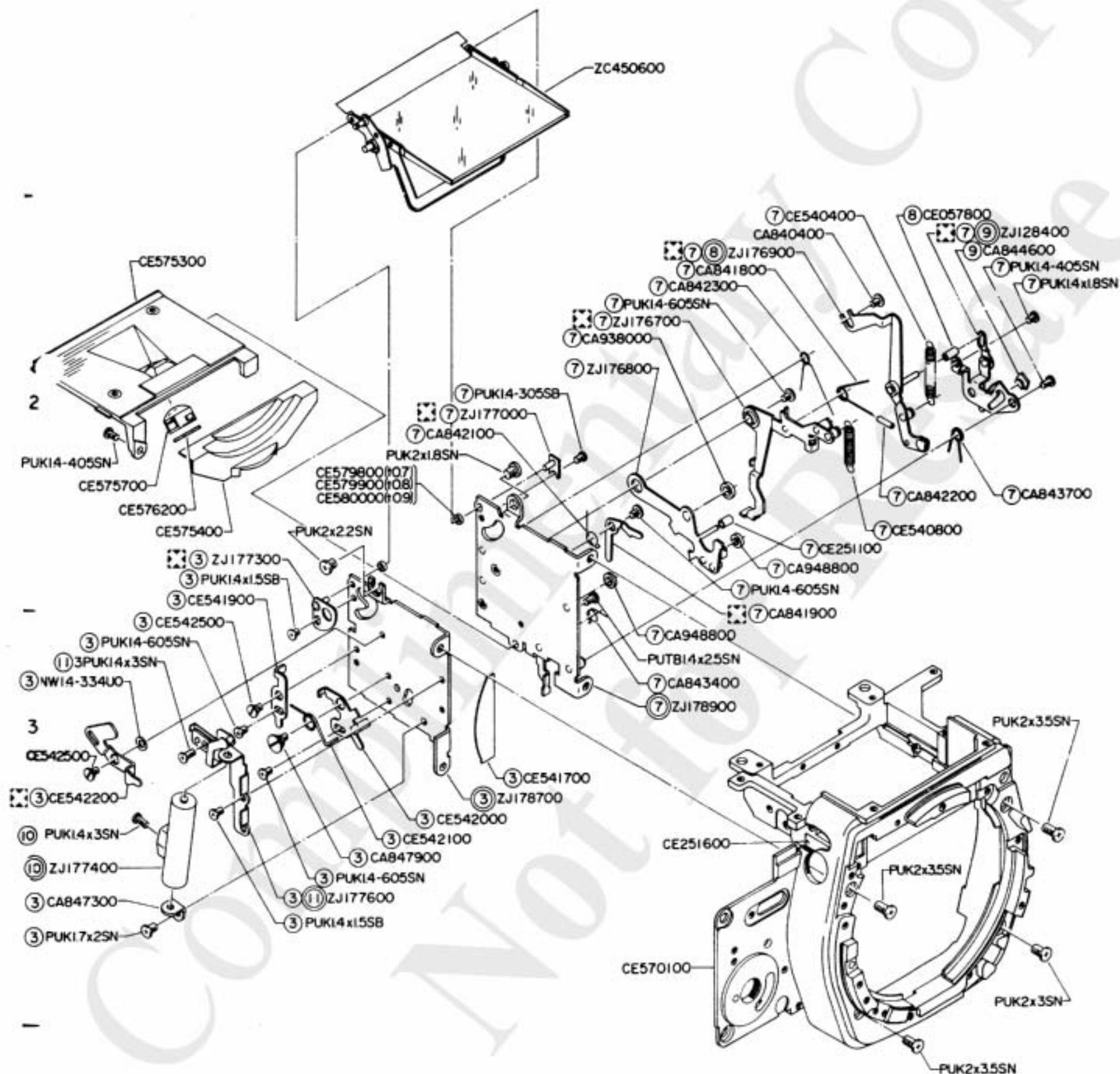
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OM-4	MDY-2	7/9

A

B

C

D

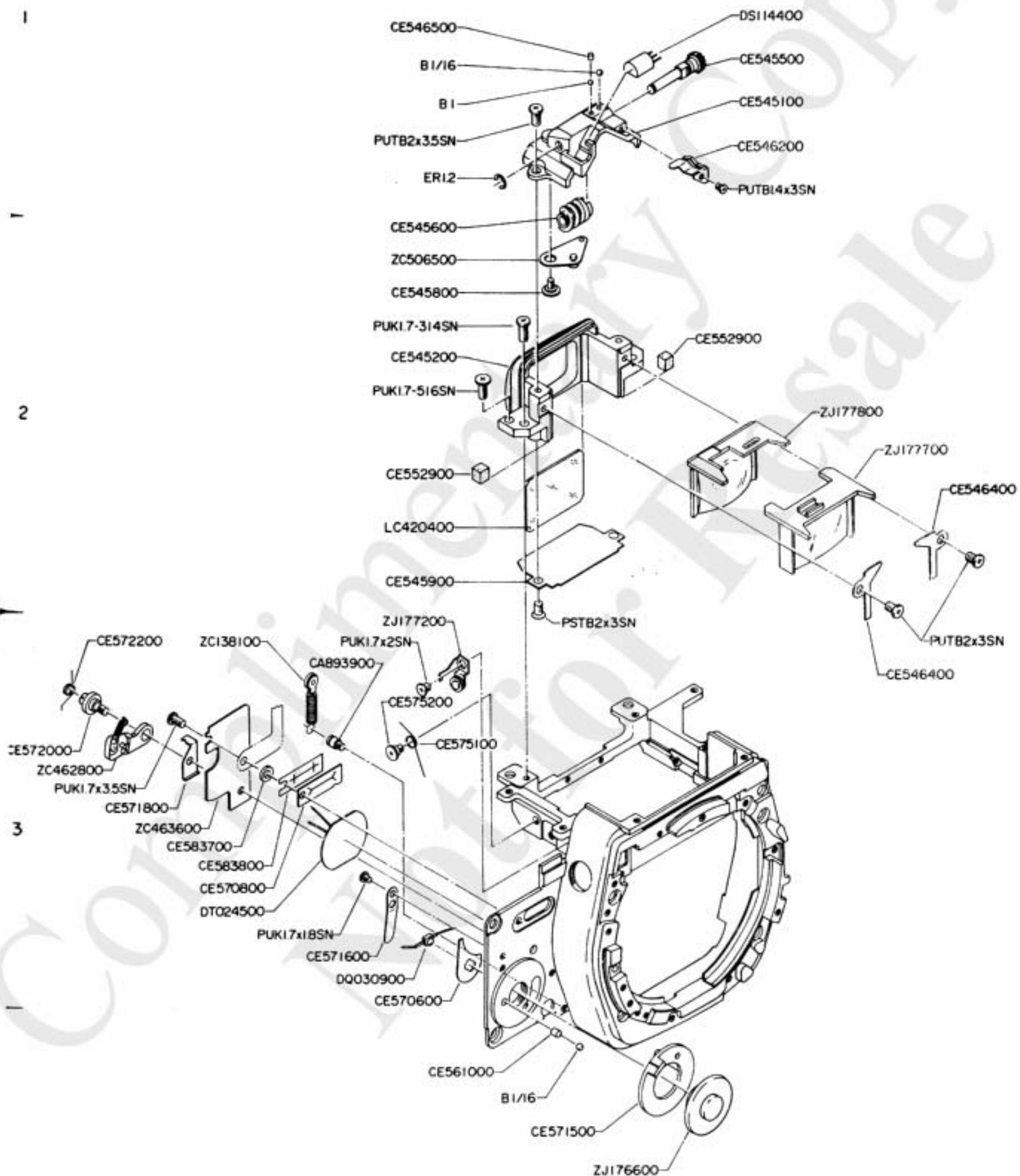


A

B

C

D

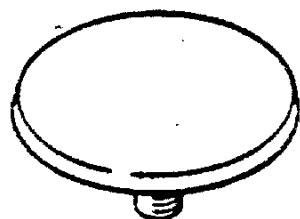


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EXPLODED PARTS DIAGRAM

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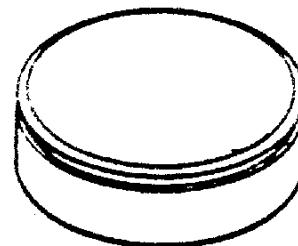
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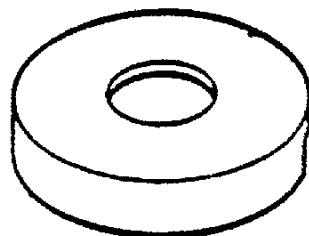
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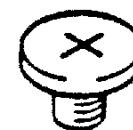
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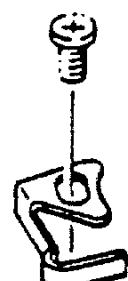


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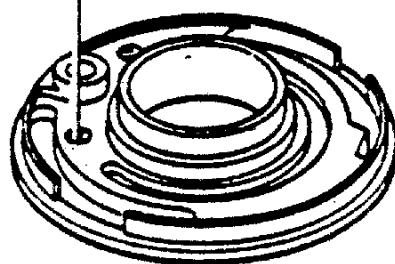


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OLD



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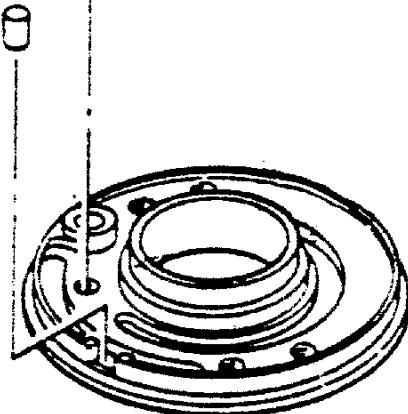
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NEW



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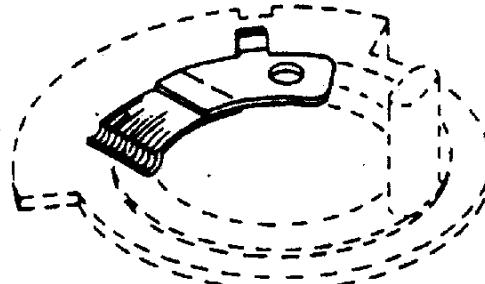


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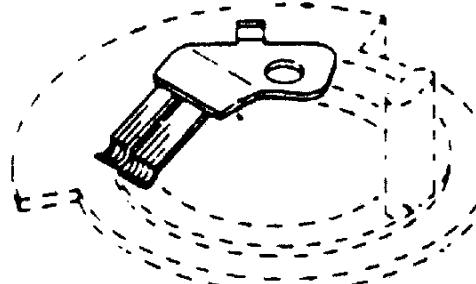
OLD

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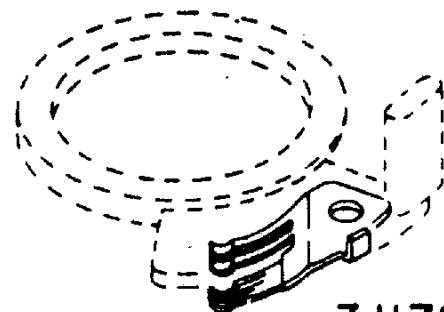
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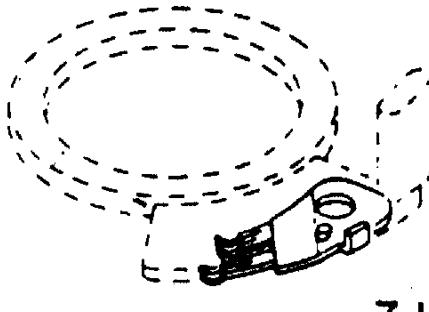
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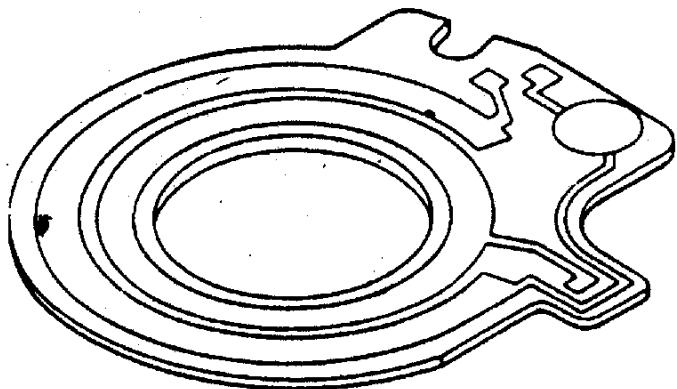
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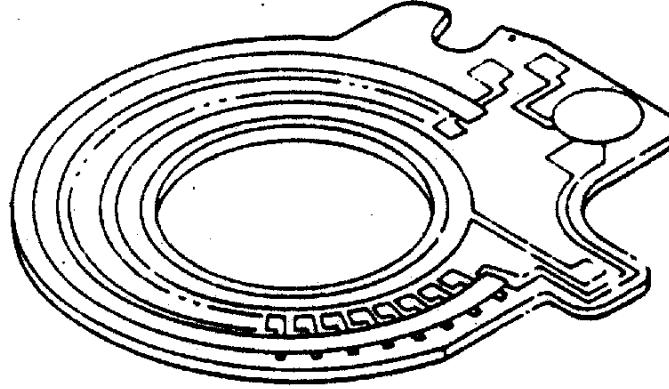
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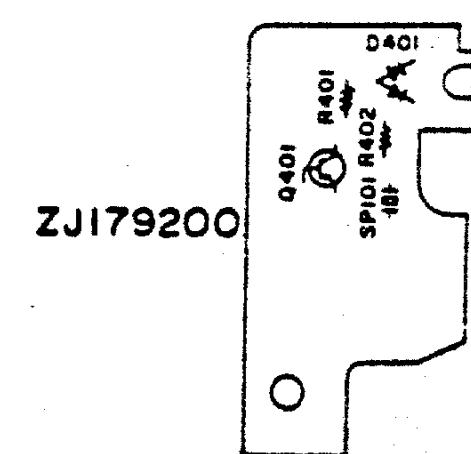
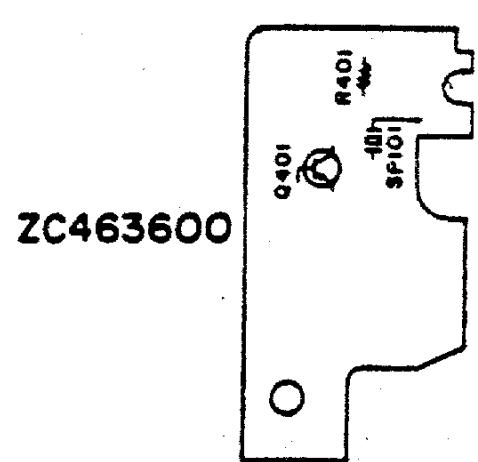
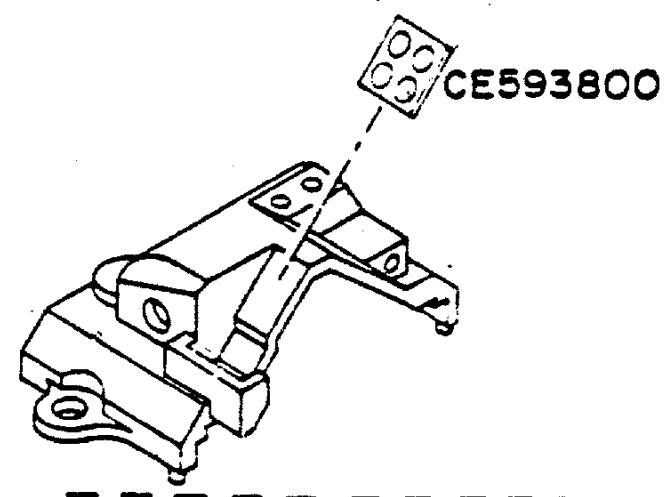
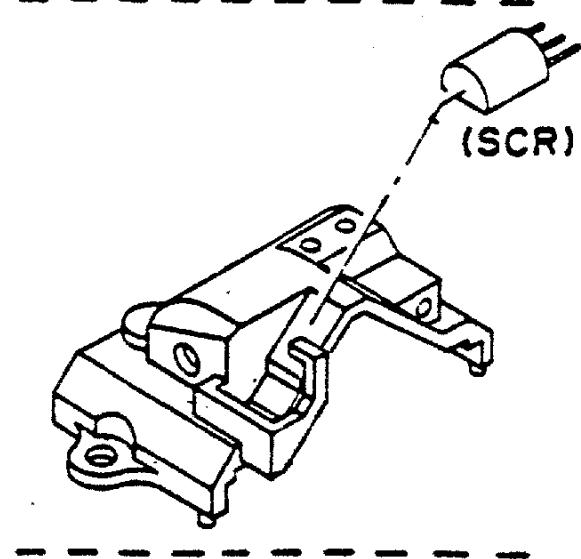
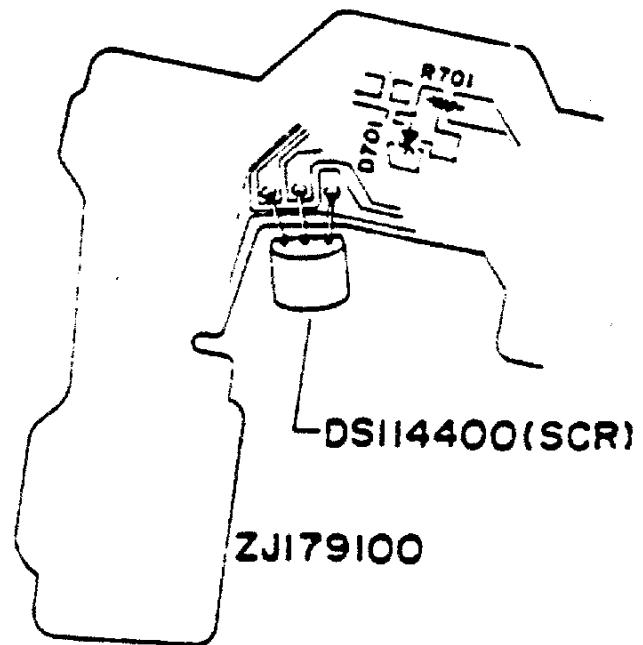
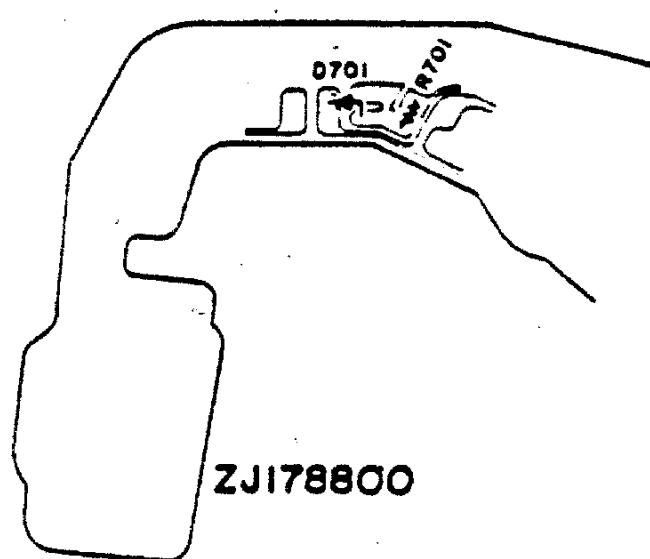
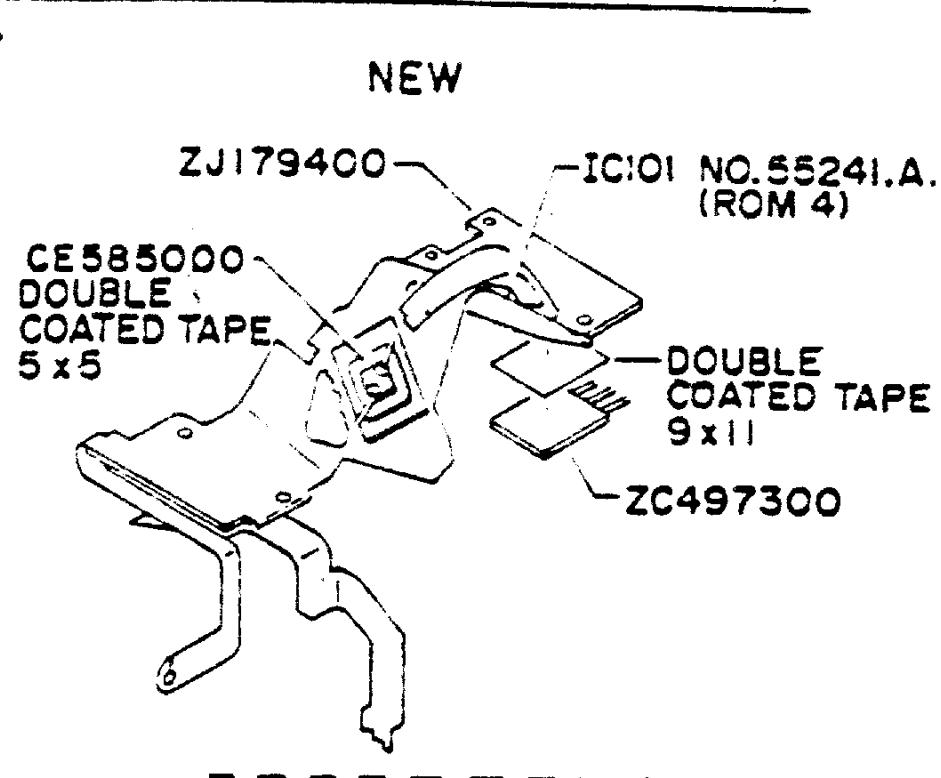
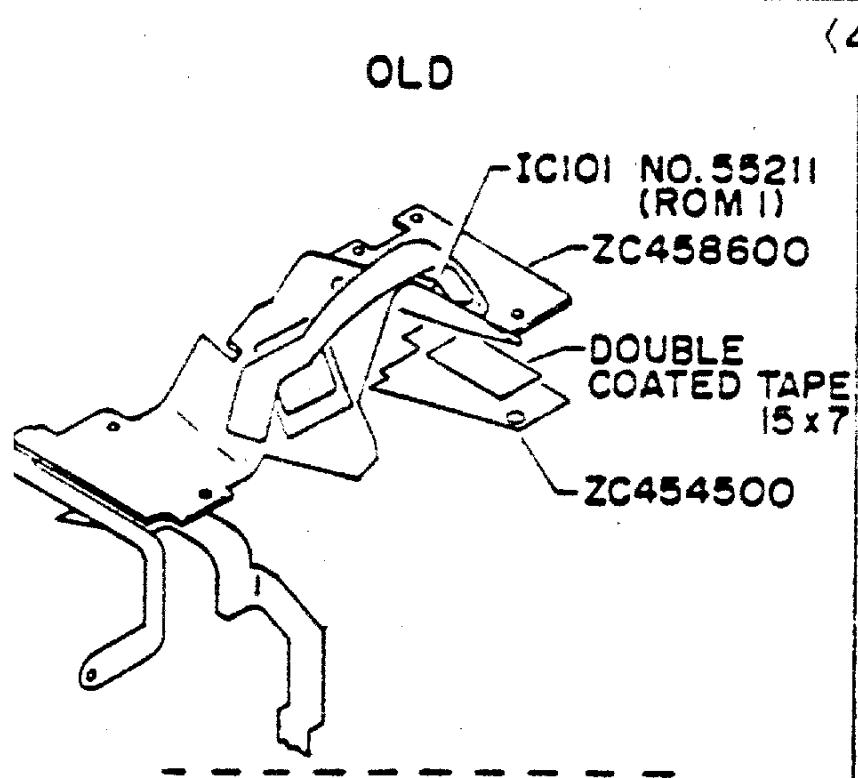
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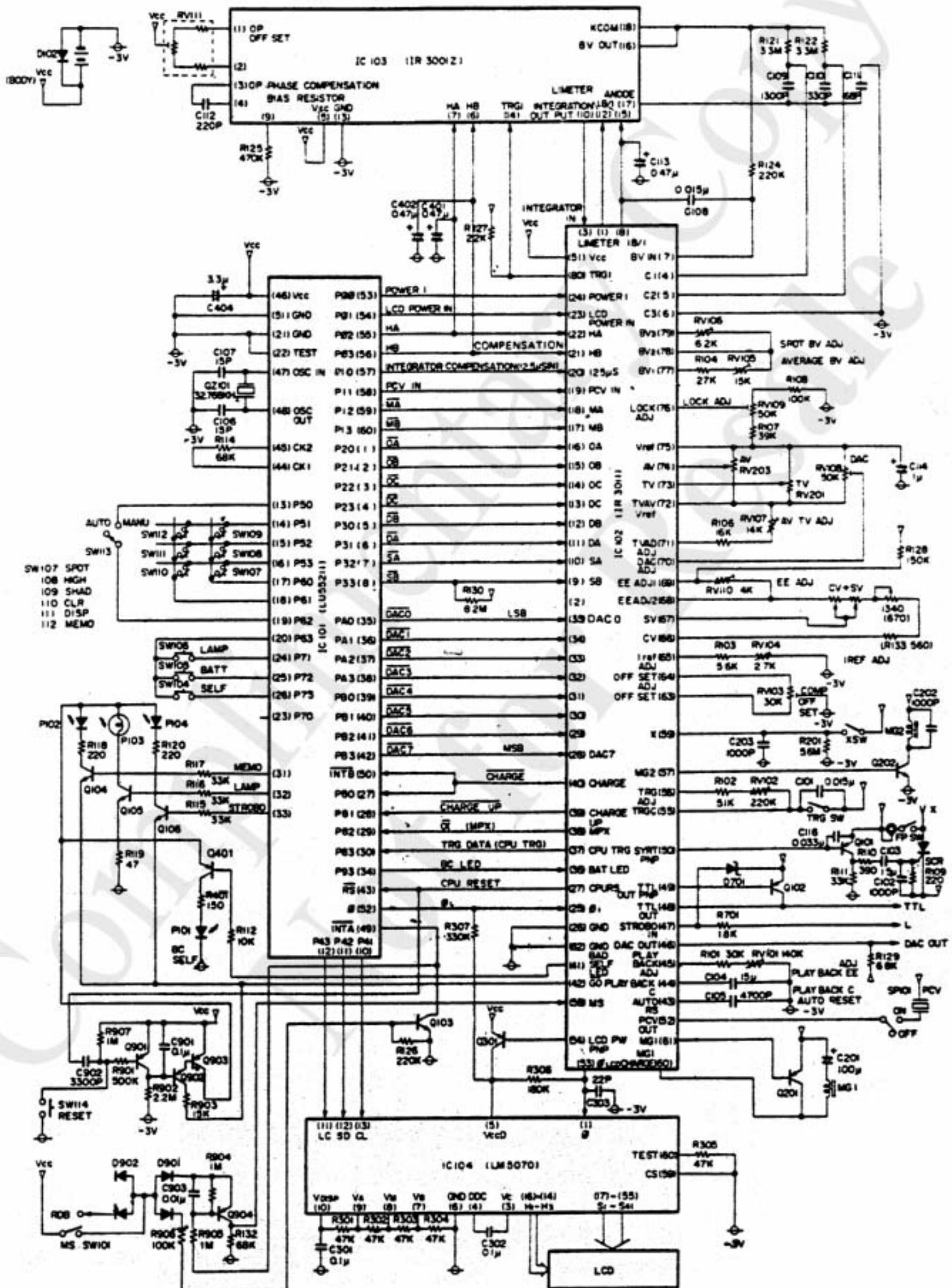
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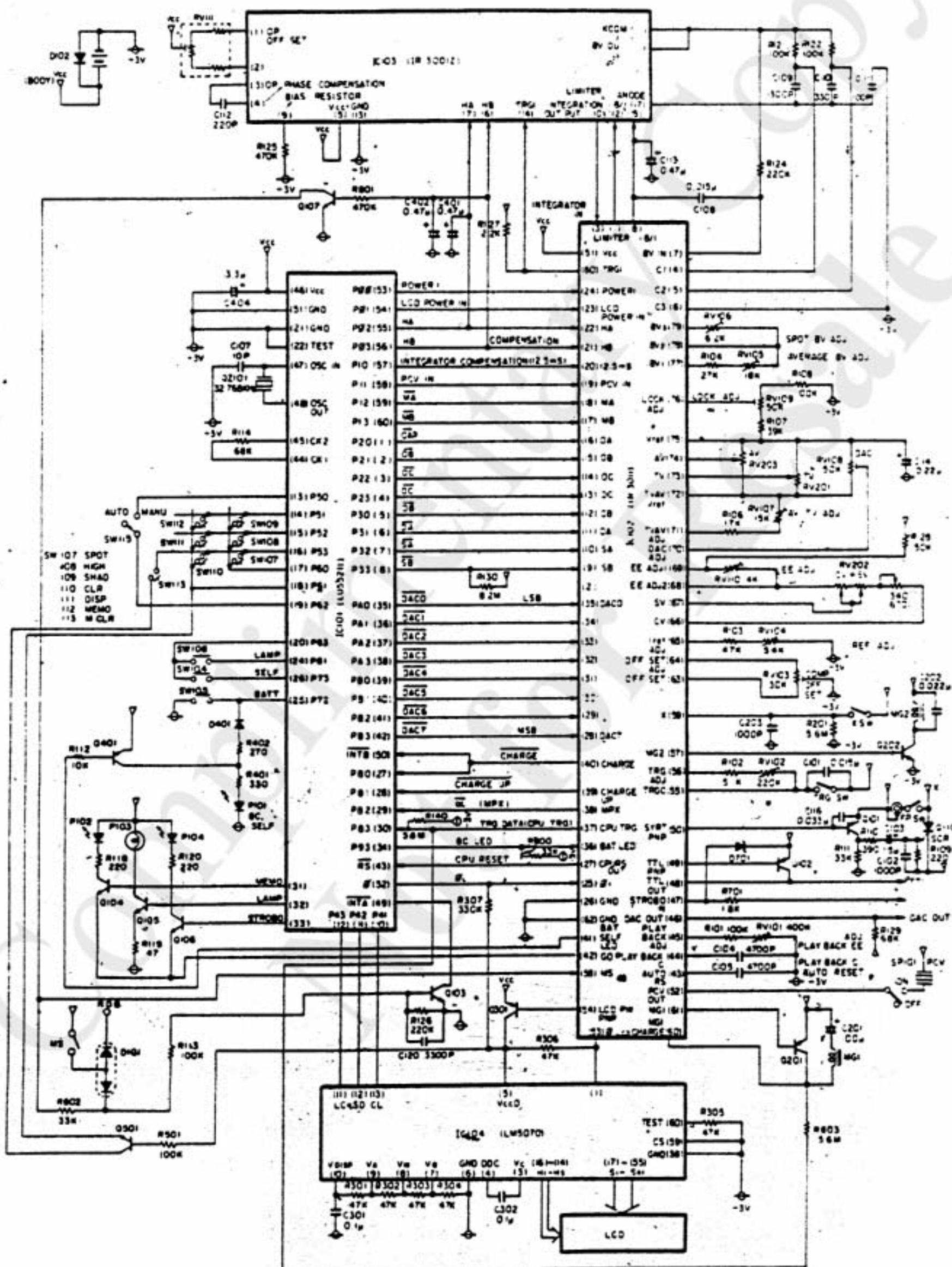
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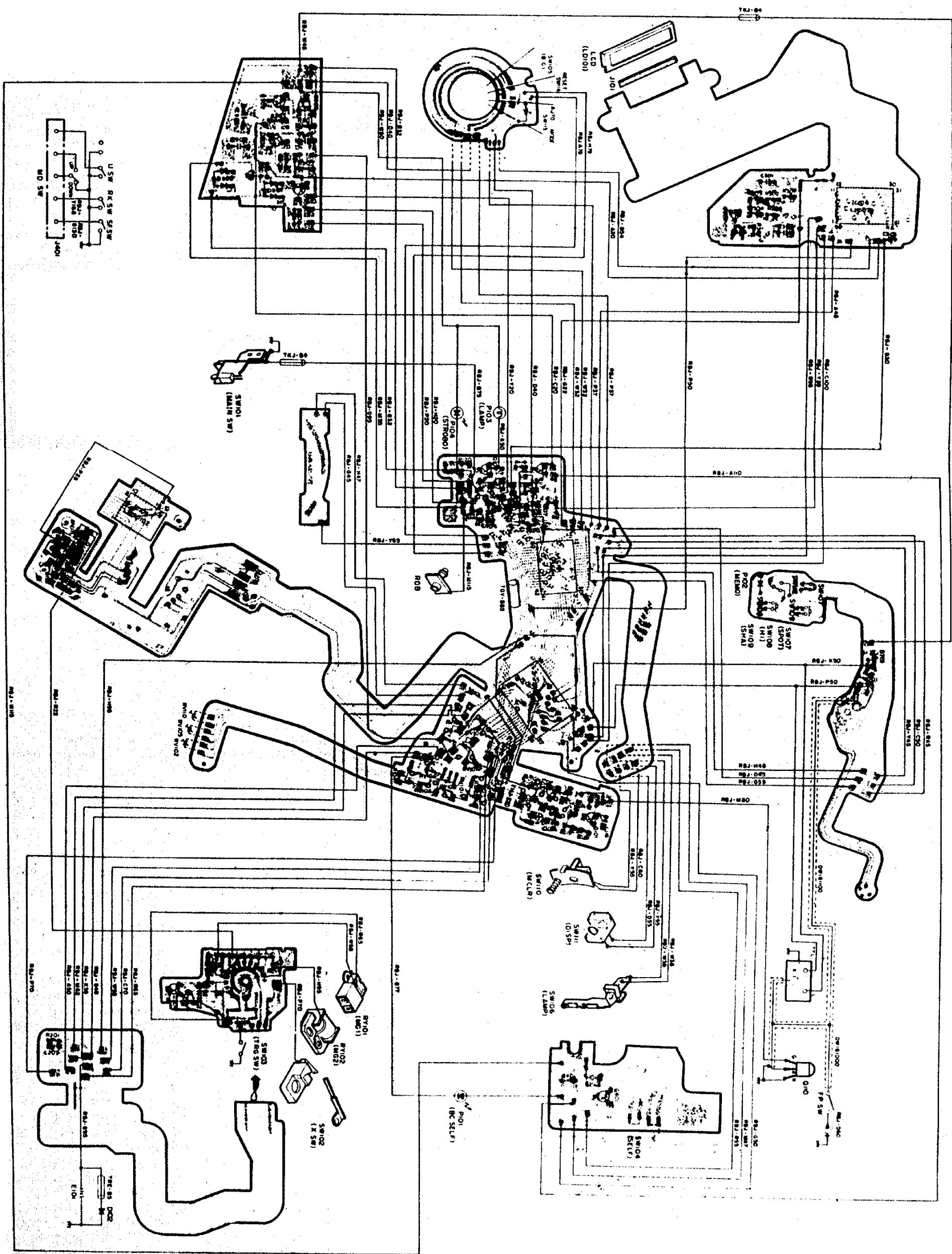
MDY2 CIRCUIT DIAGRAM



MDY2 CIRCUIT DIAGRAM (ROM4)



IDY2 WIRING DIAGRAM



MDY2 (ROM4) WIRING DIAGRAM

NO. A-7

