

USER NAME

PEPSICO DE ARGENTINA S.R.L. (MAR DEL PLATA)



# PARTS MANUAL

MODEL NAME      ATLAS-204L-FRC-ITPS

ORDER No.        2016030698/632394

PROJECT No.      20-40592-03

**ISHIDA CO., LTD.**



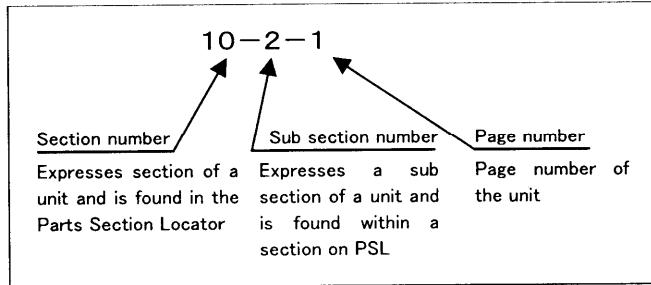
# HOW TO USE THIS PARTS MANUAL

## □OVERVIEW

This parts manual contains a list of replacement parts for a standard equipped machine. Please refer to this manual when ordering or replacing parts.

## □HOW TO REFER TO THIS MANUAL

- The machine is divided into sections.
- The Parts Section Locator, found on the first page, contains an illustration showing the location of main components (units). Refer to the illustration to locate the corresponding section for the desired unit. Some units may contain sub sections. Sub sections are listed within a section heading on the Parts Section Locator.
- The Table of Contents, found on the second page, contains the section/page number, unit name, part code, and drawing number for each unit. For a detailed list of parts and parts code used within each unit, refer to the corresponding unit section.
- Page references are constructed as follows: section number, sub section number (if any), and page number.
- A disassembly illustration is found on the left-hand side page of each parts list.



## □ORDERING A PART

When ordering a part, be sure to specify the part by referring to this manual and advising Ishida of the following information:

- Parts manual number (indicated on the upper side of the Table of Contents)
- Job number of the machine (found on the plate fitted to the main body)
- Company name
- Contact information
- Part code of the required item
- Part name
- Quantity

When you need to order a whole unit, please specify the part code with the marking ● on the itemized list.

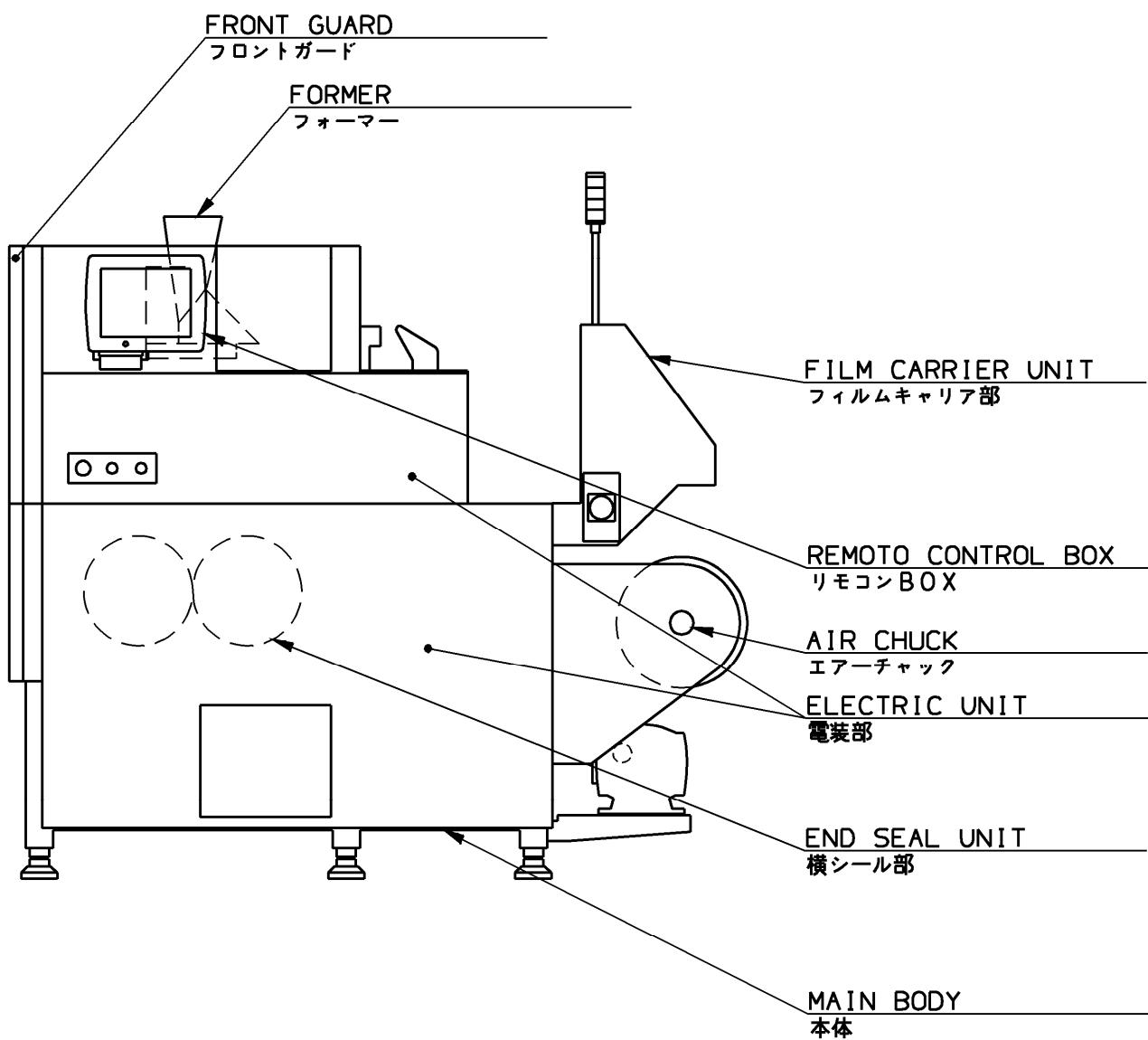
## REMARK

- The items listed on this manual are original equipment specifications and may be slightly different from the items actually equipped to your Ishida machine now in operation. For this reason, always be sure to indicate job number (indicated on the cover sheet of this manual) when ordering parts.

# ATLAS

## PARTS SECTION LOCATOR

SECTION



# TABLE OF CONTENTS

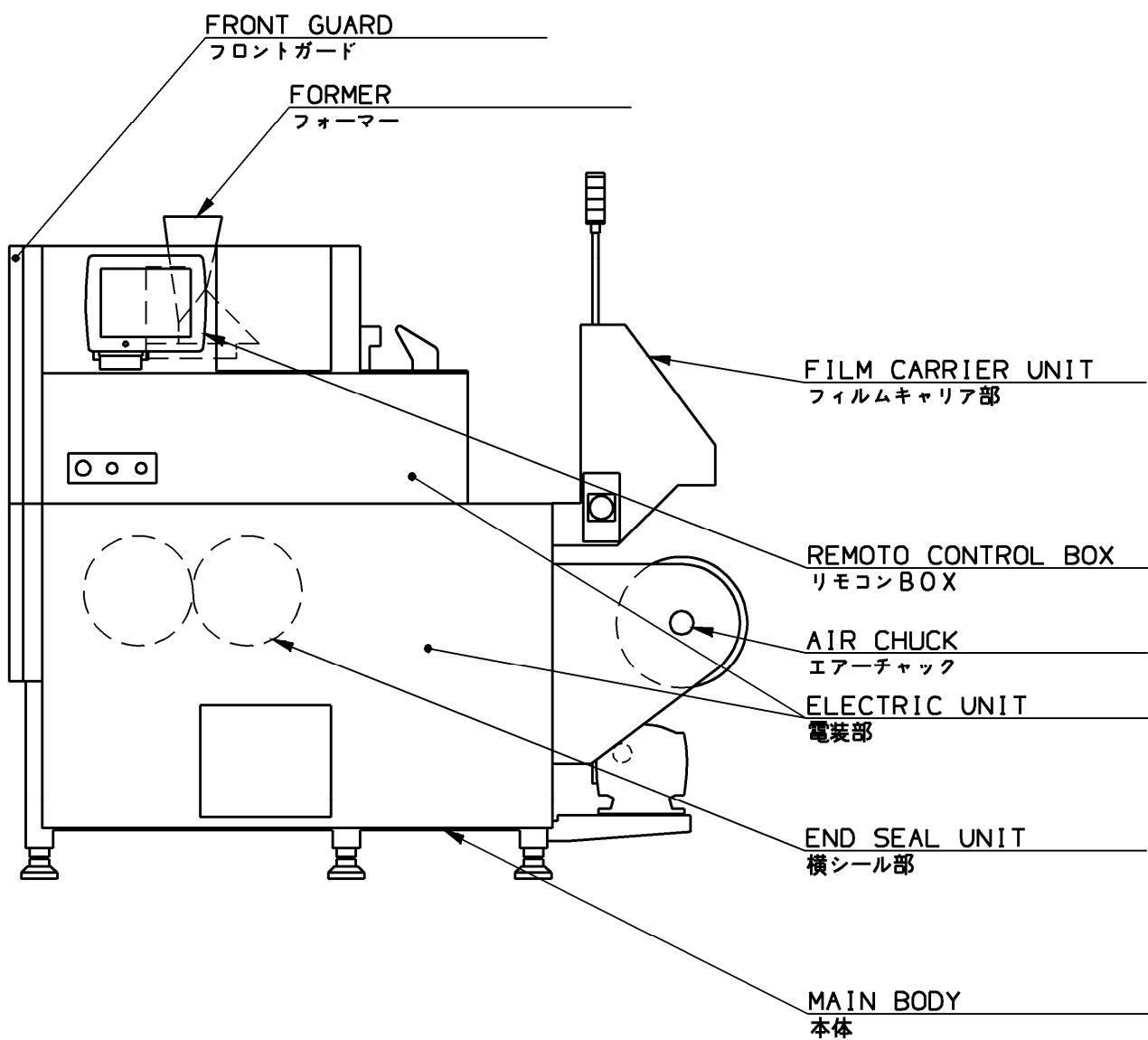
MODEL NAME            ATLAS-204L-FRC-ITPS  
 PROJECT No.          20-40592-03

SECT-PAGE	UNIT NAME	PART CODE	DRAW No.
10- 1	MAIN BODY UNIT::	100-010-2562-00	4D-50534
11- 1	GUARD UNIT:MAIN BODY:	100-009-5598-00	4D-50814
12- 1	COVER UNIT:MAIN BODY:	100-016-6627-01	4D-54388
12- 2	COVER UNIT:TOP:	100-013-2419-00	4D-52211
12- 3	COVER UNIT:FILM PASS:	000-147-2313-13	4D-49186
15- 1	AIR UNIT:COMPRESS:	000-133-3970-44	4D-43300
15- 2	AIR UNIT:VACUUM:	000-137-6863-11	4D-46051
20- 1	DRIVE UNIT:END SEAL:	000-135-3825-04	4D-32762
20- 2	COMPRESSCONTROL UNIT:END SEAL:	000-135-3827-22	4D-51710
20- 3	ARM UNIT:END SEAL:	000-119-8424-03	4D-36819
21- 1	STRIPPING UNIT:END SEAL:	000-148-2745-07	4D-43399
21- 2	KNIFE UNIT:END SEAL:	000-122-8793-15	4D-32060
21- 3	SHUTTER UNIT:END SEAL:	000-099-7280-55	4D-32933
23- 1	HEATER UNIT:END SEAL:	100-012-3121-00	4D-52212
30- 1	PULL DOWN UNIT:BACK SEAL:	000-133-3936-00	4D-42028
30- 2	FORMER UNIT::	000-086-3765-03	4D-20100
30- 3	ARM UNIT:BACK SEAL:	000-116-7614-18	4D-31722
30- 4	HEATER UNIT:BACK SEAL:	000-116-5397-41	4D-44379
30- 5	COVER UNIT:BACK SEAL:	000-099-2404-16	4D-31726
30- 6	POSITIONING UNIT:BACK SEAL:	000-133-3938-43	4D-43074
30- 7	OPERATION UNIT:FRONT:	100-013-8177-00	4D-52473
30- 8	HIGH SPEED POKER UNIT::	100-008-4188-00	4D-46964
30- 9	POKER BASE UNIT::	100-008-4208-00	4D-50350
39- 1	BOTTOM FOLDING UNIT::	000-145-0920-21	4D-53926
39- 2	GUSSET UNIT:DRIVE:	000-139-9638-16	4D-53927
39- 3	INSERT UNIT:DRIVE:	000-146-9333-07	4D-42877
39- 4	GUSSET UNIT:FRONT:	000-139-9643-14	4D-49867
40- 1	FORMER ROLLER UNIT::	000-133-3965-08	4D-33264
40- 2	REG MARK UNIT::	000-135-3843-01	4D-40269
50- 1	FILM CARRIER UNIT::	000-147-6342-08	4D-46052
50- 2	COVER UNIT:AIR CHUCK:	100-012-4578-00	4D-43304
51- 1	OPERATION UNIT:REAR:	100-004-9852-00	4D-49187
59- 1	OPTION UNIT:LIGHT:REAR	100-000-9849-00	4D-47870
60- 1	AIR CHUCK UNIT::	000-133-3987-41	4D-53762
63- 1	LINE SENSOR UNIT::	000-137-6866-02	4D-49672

# ATLAS

## PARTS SECTION LOCATOR

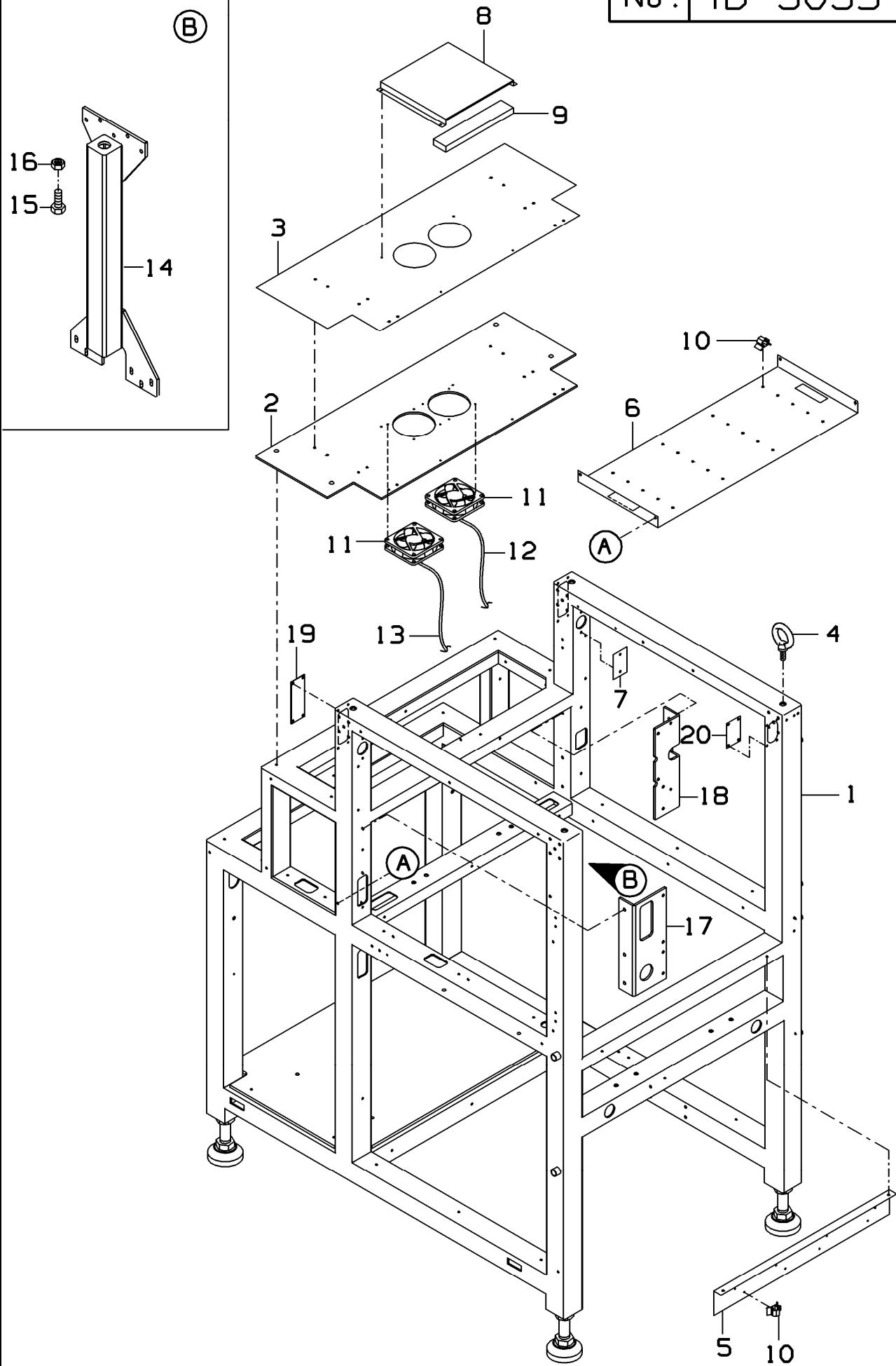
SECTION



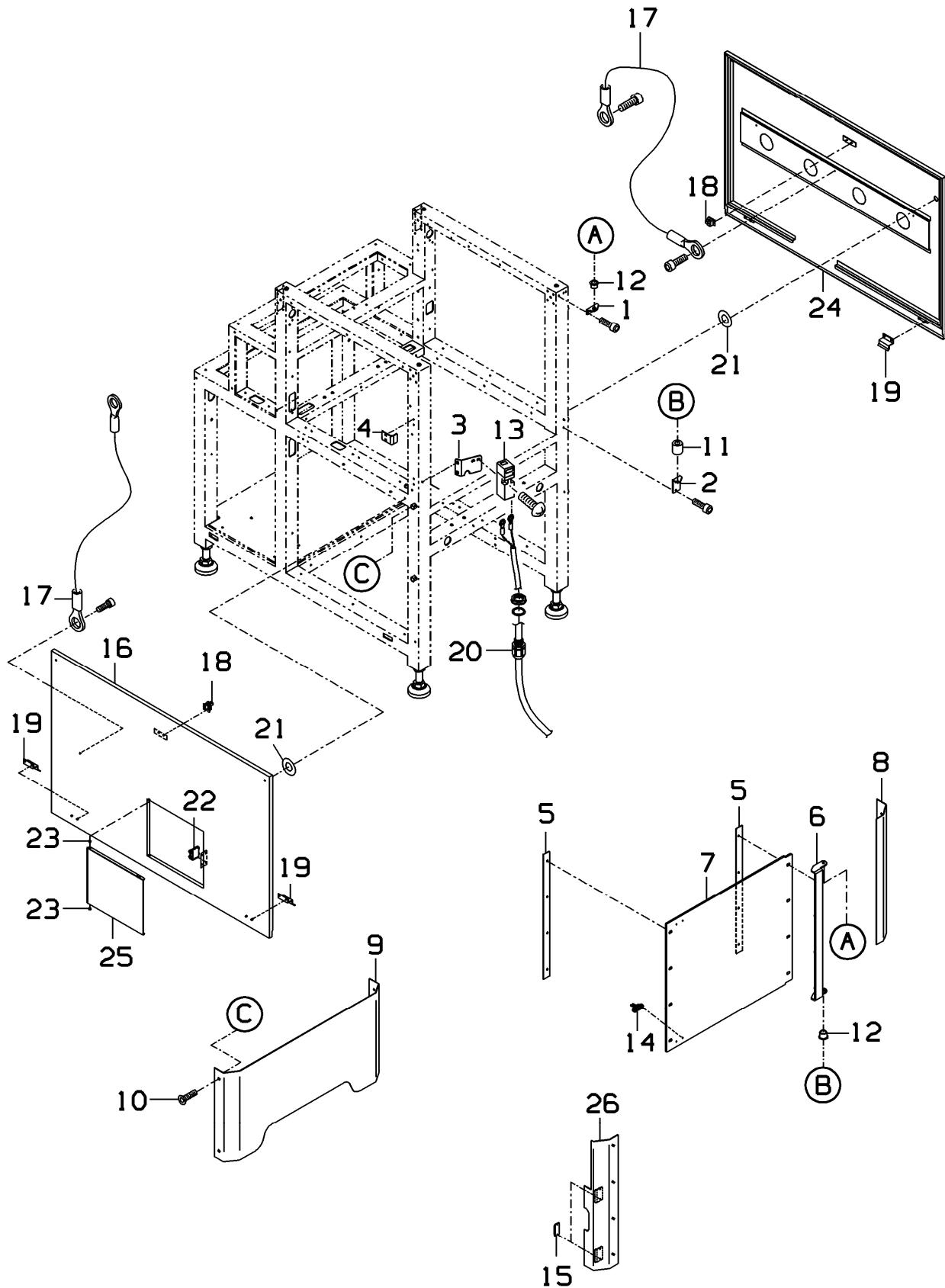
# **TABLE OF CONTENTS**

MODEL NAME            ATLAS-204L-FRC-ITPS  
PROJECT No.          20-40592-03

No. 4D-50534

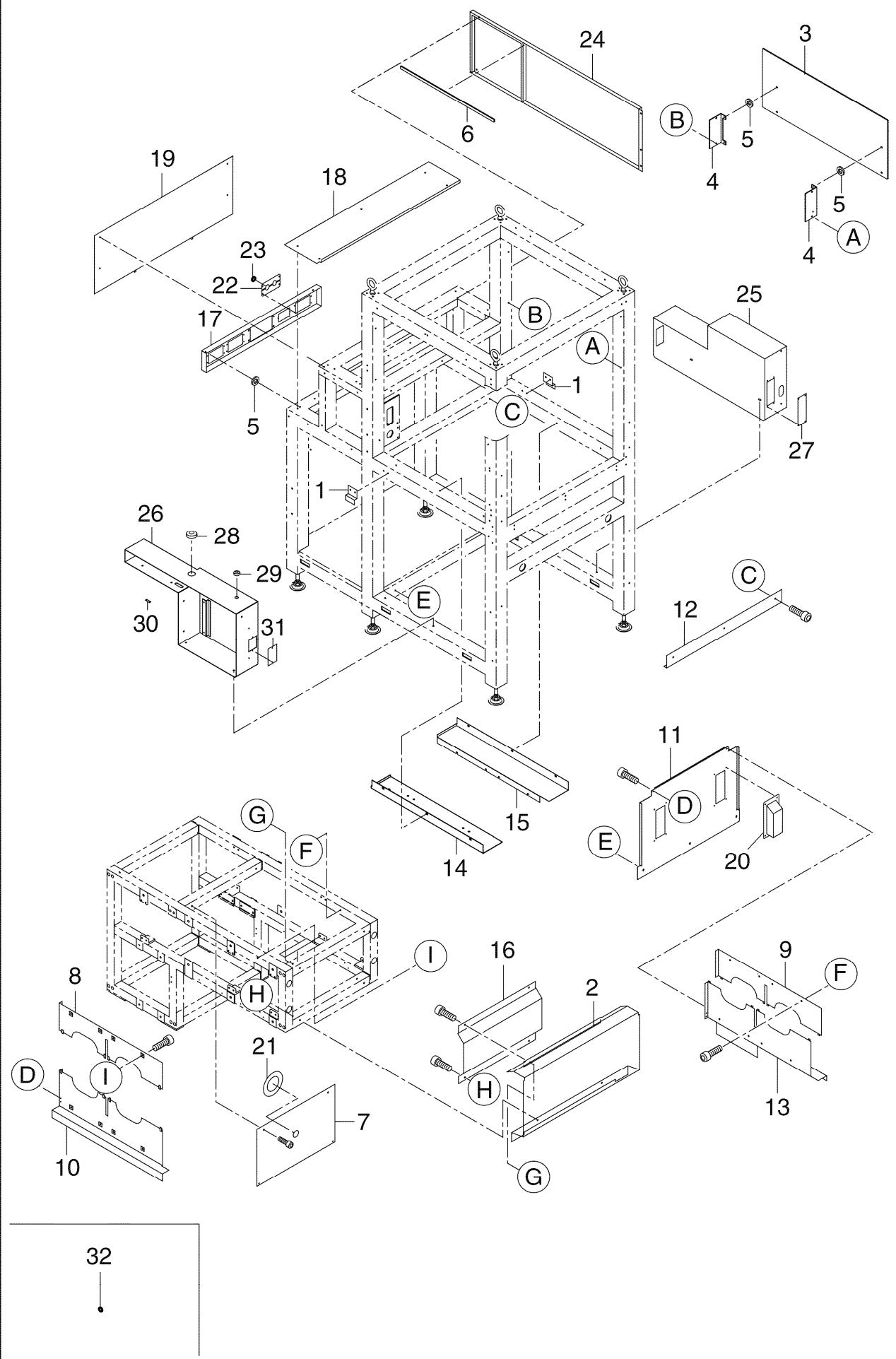


UNIT NAME	MAIN BODY UNIT::	DRAW NO.	4D-50534
-----------	------------------	----------	----------



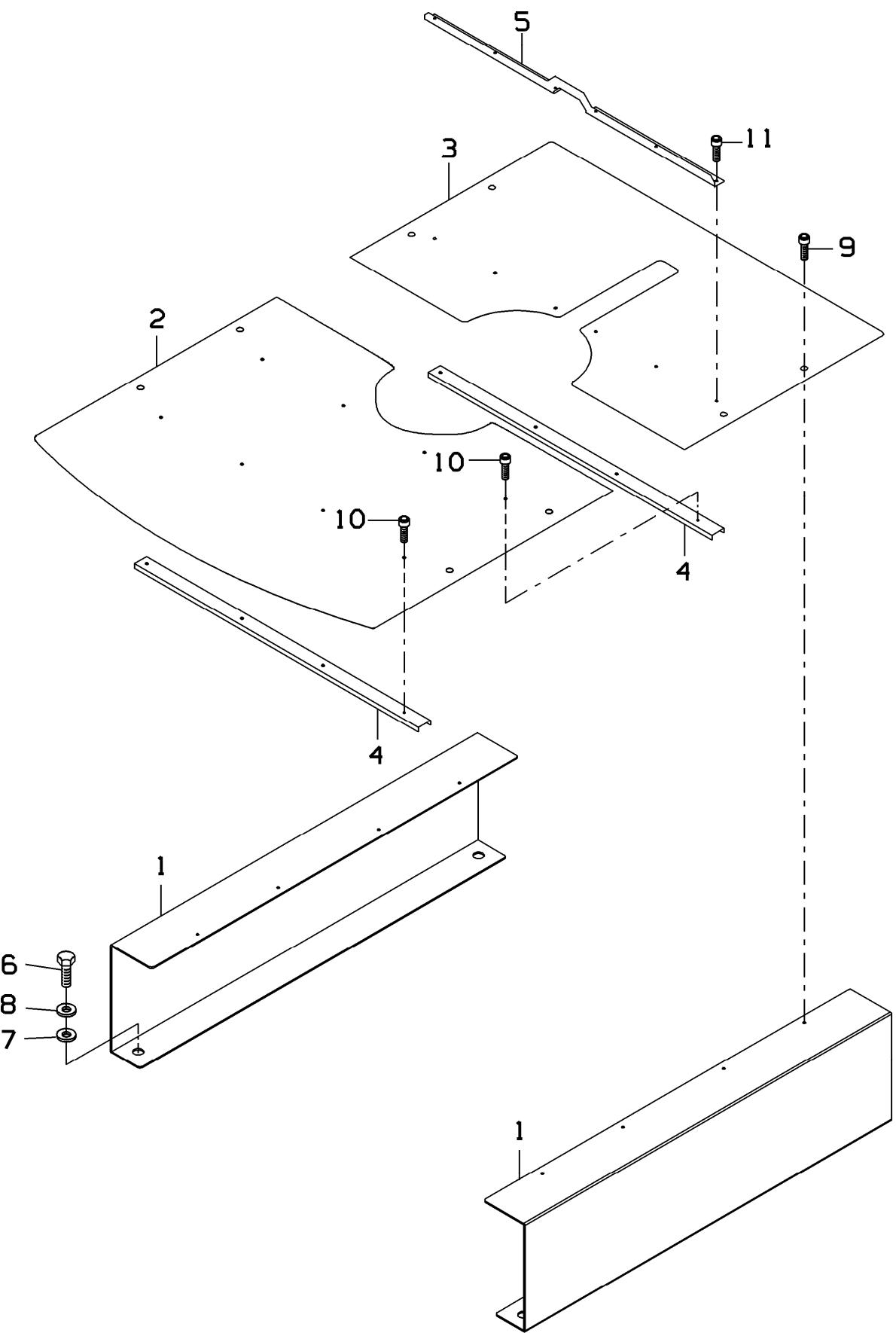
UNIT NAME	GUARD UNIT:MAIN BODY:	DRAW NO.	4D-50814
-----------	-----------------------	----------	----------

NO. 4D-54388



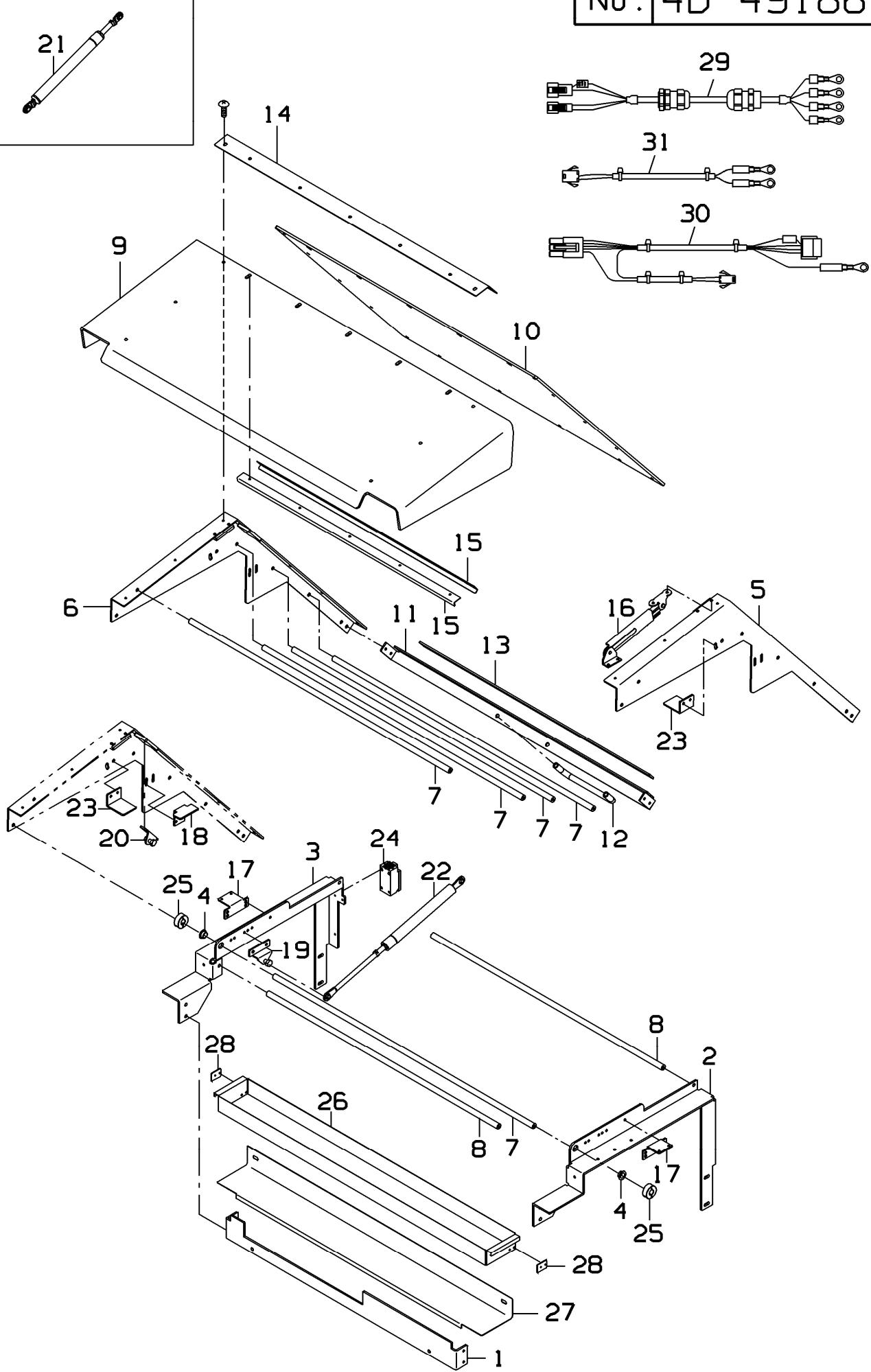
UNIT NAME	COVER UNIT:MAIN BODY:	DRAW NO.	4D-54388
-----------	-----------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	100-016-6627-01	COVER UNIT:MAIN BODY:	
1	000-095-0243-07	BRACKET: COVER:	2
2	000-107-2562-18	COVER: FRONT: OUT SIDE	1
3	100-013-8197-00	COVER: MAIN BODY: U	1
4	000-135-1980-01	BRACKET: COVER: U	2
5	000-016-7516-03	WASHER: LOCK:	8
6	000-095-0260-01	GASKET: COVER:	14
7	000-097-6201-07	COVER: FRONT: M	1
8	000-097-6208-02	COVER: SIDE: UL	1
9	000-097-6209-06	COVER: SIDE: UL	1
10	000-122-8789-01	COVER: SIDE: DL	1
11	000-145-7939-09	COVER: FRONT: D	1
12	000-097-6200-03	COVER: FRONT: U	1
13	000-097-6210-10	COVER: SIDE: DR	1
14	000-139-0512-07	COVER: SIDE: U1	1
15	000-110-2563-01	COVER: SIDE: U1	1
16	000-097-9090-01	COVER: FRONT: IN SIDE	1
17	000-148-1532-07	COVER: REAR:	1
18	000-095-0211-35	COVER: PRINTER: 1	1
19	000-095-0212-48	COVER: PRINTER: 2	1
20	000-140-6667-06	COVER: WIRING:	2
21	000-097-6220-08	GASKET: :	1
22	000-095-0620-08	COVER: WIRING:	6
23	000-008-4746-08	GROMMET: W/DIAPHRAGM:	6
24	000-116-7617-00	COVER: SIDE:	1
25	000-114-2372-05	COVER: FRONT: LD	1
26	000-133-9617-03	COVER: FRONT: RD	1
27	000-095-7169-00	PLATE A: :	1
28	000-092-9624-03	GROMMET: W/DIAPHRAGM:	1
29	000-001-9347-02	GROMMET: W/DIAPHRAGM:	1
30	000-122-3044-01	PLATE A: SWITCH:	1
31	000-086-9957-03	PLATE A: RD:	2
32	000-000-3973-05	GROMMET: W/DIAPHRAGM:	2



UNIT NAME	COVER UNIT:TOP:	DRAW NO.	4D-52211
-----------	-----------------	----------	----------

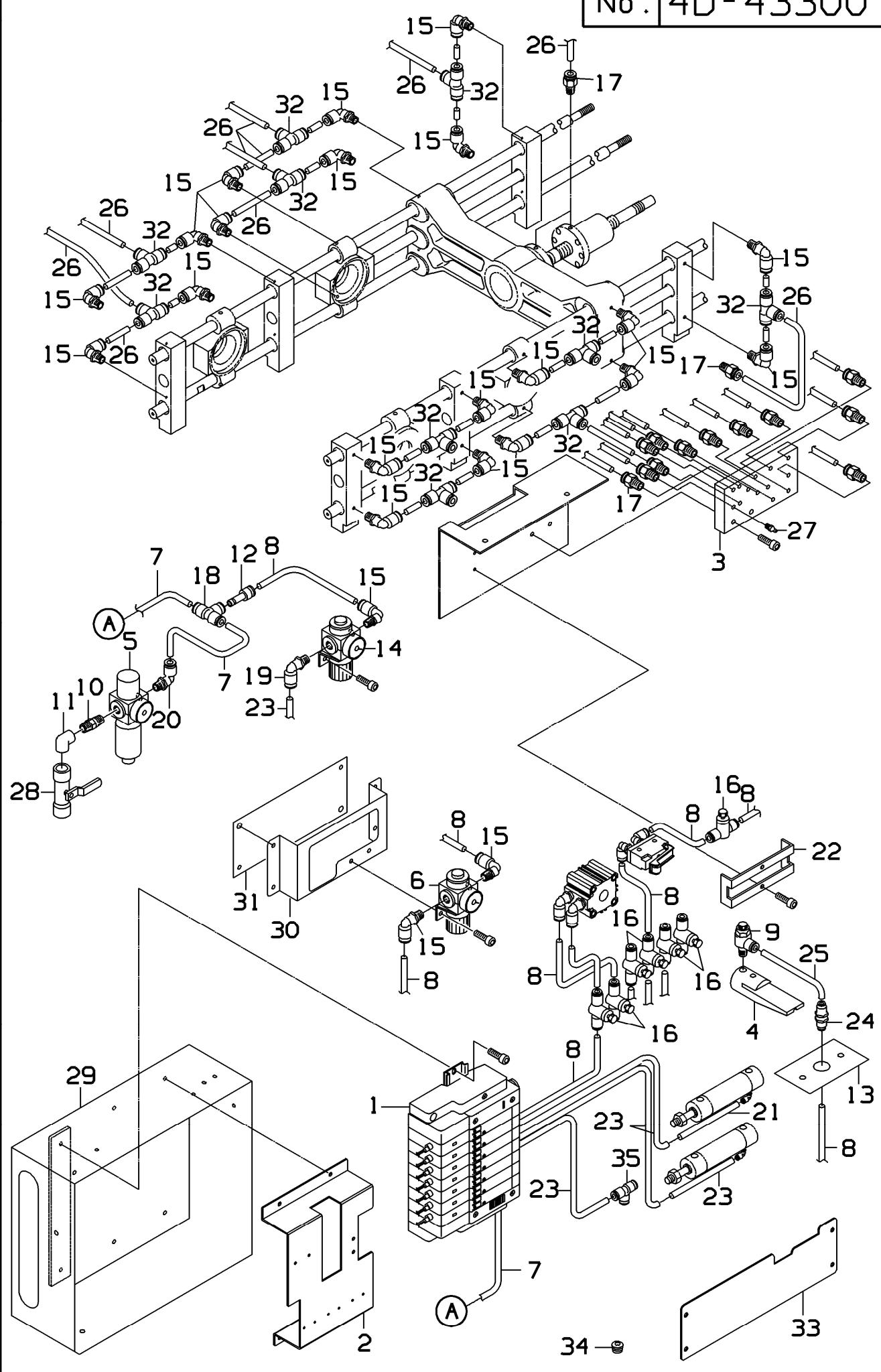
No. 4D-49186



UNIT NAME	COVER UNIT: FILM PASS:	DRAW NO.	4D-49186
-----------	------------------------	----------	----------

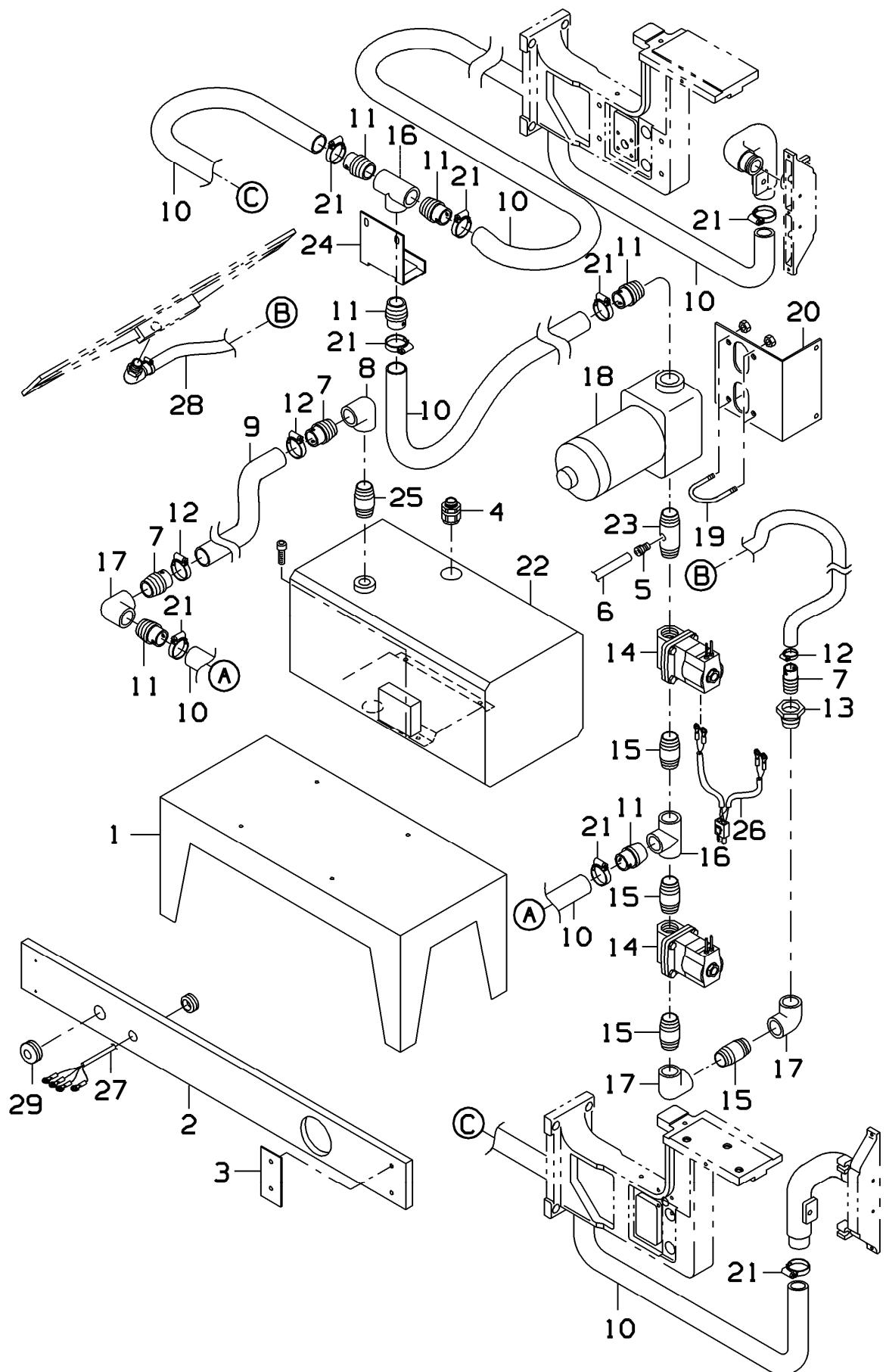
NO.	PART CODE	PART NAME	QUANTITY
●	000-147-2313-13	COVER UNIT: FILM PASS:	
1	000-147-2309-09	BASE: COVER: FILM PASS	1
2	000-147-0432-07	FRAME: SIDE: COVER	1
3	000-147-0433-01	FRAME: SIDE: COVER	1
4	000-009-4584-09	BUSH: DU: FLANGE	2
5	000-147-0435-08	FRAME: COVER: FILM PASS	1
6	000-147-0436-01	FRAME: COVER: FILM PASS	1
7	000-147-2308-05	THREADED ROD: ROUND: FF	5
8	000-112-1852-08	THREADED ROD: ROUND: FF	2
9	000-147-0437-05	COVER: FILM: TOP	1
10	000-147-0438-09	COVER: FILM: REAR	1
11	000-147-0439-02	BRACKET: HANDLE:	1
12	000-133-1135-06	HANDLE::	1
13	000-147-2305-04	PLATE A: SPACER:	1
14	000-147-2306-08	COVER: FILM:	1
15	000-147-2307-01	L PLATE A::	2
16	000-096-6860-04	STAY::	2
17	000-146-9348-02	L PLATE B: BRACKET: STAY	2
18	000-146-9350-01	L PLATE B: SWITCH:	1
19	000-090-5890-09	JOINT: DAMPER:	1
20	000-078-7017-01	JOINT: DAMPER:	1
21	000-060-0762-00	DAMPER: DASH POT:	1
22	000-025-2936-08	DAMPER: DASH POT:	1
23	000-147-2310-03	L PLATE A: TOUCH:	2
24	000-146-9349-06	SWITCH: SAFETY:	1
25	000-147-0425-01	SET COLLAR::	2
26	000-147-2312-01	COVER: DEBRIS TRAY:	1
27	000-147-2311-07	CRANK PLATE B: COVER:	1
28	000-140-8197-00	PLATE A: SQUARE: SLIDER	2
29	000-146-8886-06	HARNESS: C6: DOOR-SW	1
30	000-146-8839-01	HARNESS: C4: EMERGENCY LIGHT	1
31	000-146-8840-14	HARNESS: C3: INTERFACE	1

No. 4D-43300



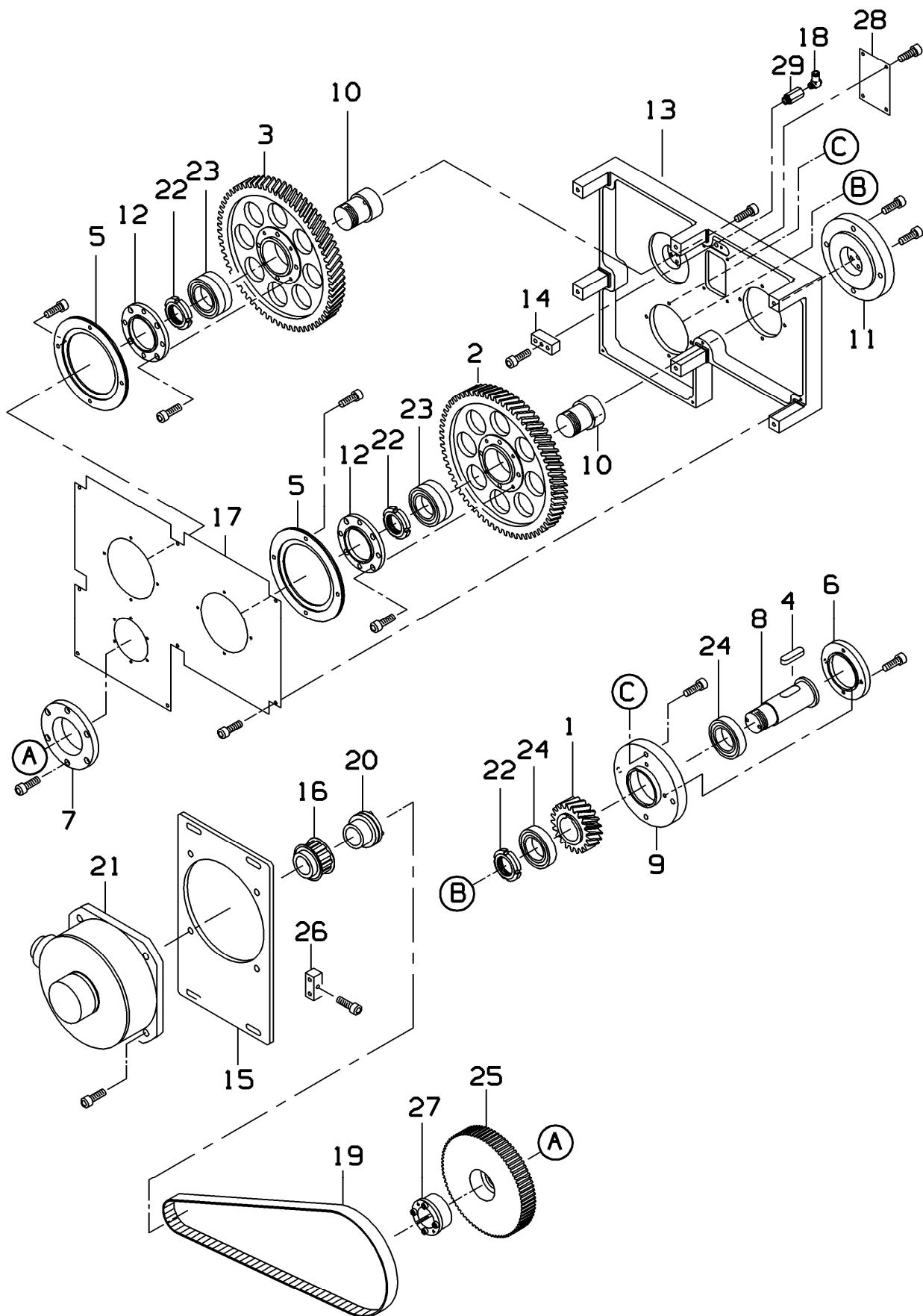
UNIT NAME	AIR UNIT:COMPRESS:	DRAW NO.	4D-43300
-----------	--------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-133-3970-44	AIR UNIT:COMPRESS:	
1	000-139-2272-02	SOLENOID VALVE::MANIFOLD	1
2	000-137-6573-01	BRACKET:AIR UNIT:	1
3	000-094-9413-18	MANIFOLD:GREASE:	1
4	000-103-8870-18	NOZZLE:AIR:	1
5	100-004-0914-00	FILTER REGULATOR::	1
6	000-109-6381-01	AIR REGULATOR::	1
7	000-143-9474-07	TUBE:POLYURETHANE:	1
8	000-086-8315-09	TUBE:POLYURETHANE:	2
9	000-067-3445-01	SPEED CONTROL:ONE TOUCH:ELBOW	1
10	000-004-6353-06	JOINT:NIPPLE:	1
11	000-004-6367-08	JOINT:ELBOW:	1
12	000-068-7139-11	JOINT:REDUCER:	2
13	000-107-0742-05	PLATE A:MAIN BODY:	1
14	000-109-6382-04	AIR REGULATOR::	1
15	000-011-6025-01	JOINT:HOSE ELBOW:	20
16	000-143-1545-09	SPEEDCONTROL:ONE TOUCH:INLINE	7
17	000-108-7648-01	JOINT:HOSE NIPPLE:	15
18	000-068-7132-16	JOINT:3WAY UNION:	2
19	000-101-4939-11	JOINT:HALF UNION:	2
20	000-068-7135-17	JOINT:ELBOW:	2
21	000-050-5162-04	TUBE::	0.2
22	000-143-1686-01	COVER:SPEEDCONTROL:	1
23	000-137-3670-09	TUBE:POLYURETHANE:	1
24	000-067-3411-13	JOINT:WALL SPACE UNION:	1
25	000-068-3967-05	TUBE:U FLEXIBLE:	1
26	000-105-6708-05	TUBE:NYLON:	1
27	000-057-9445-03	GREASE NIPPLE::	13
28	000-066-4575-08	VALVE:BALL:	1
29	000-139-5614-01	BOX:AIR UNIT:	1
30	000-121-3509-09	BRACKET:MANIFOLD:	1
31	000-116-9568-08	COVER:MANIFOLD:	1
32	000-108-7650-09	JOINT:3WAY UNION:	10
33	000-137-1894-18	COVER:DANCER:UPPER	1
34	000-004-6379-02	JOINT:PLUG:HEX SOCKET	1
35	000-068-7133-10	JOINT:3WAY UNION:	1



UNIT NAME	AIR UNIT:VACUUM:	DRAW NO.	4D-46051
-----------	------------------	----------	----------

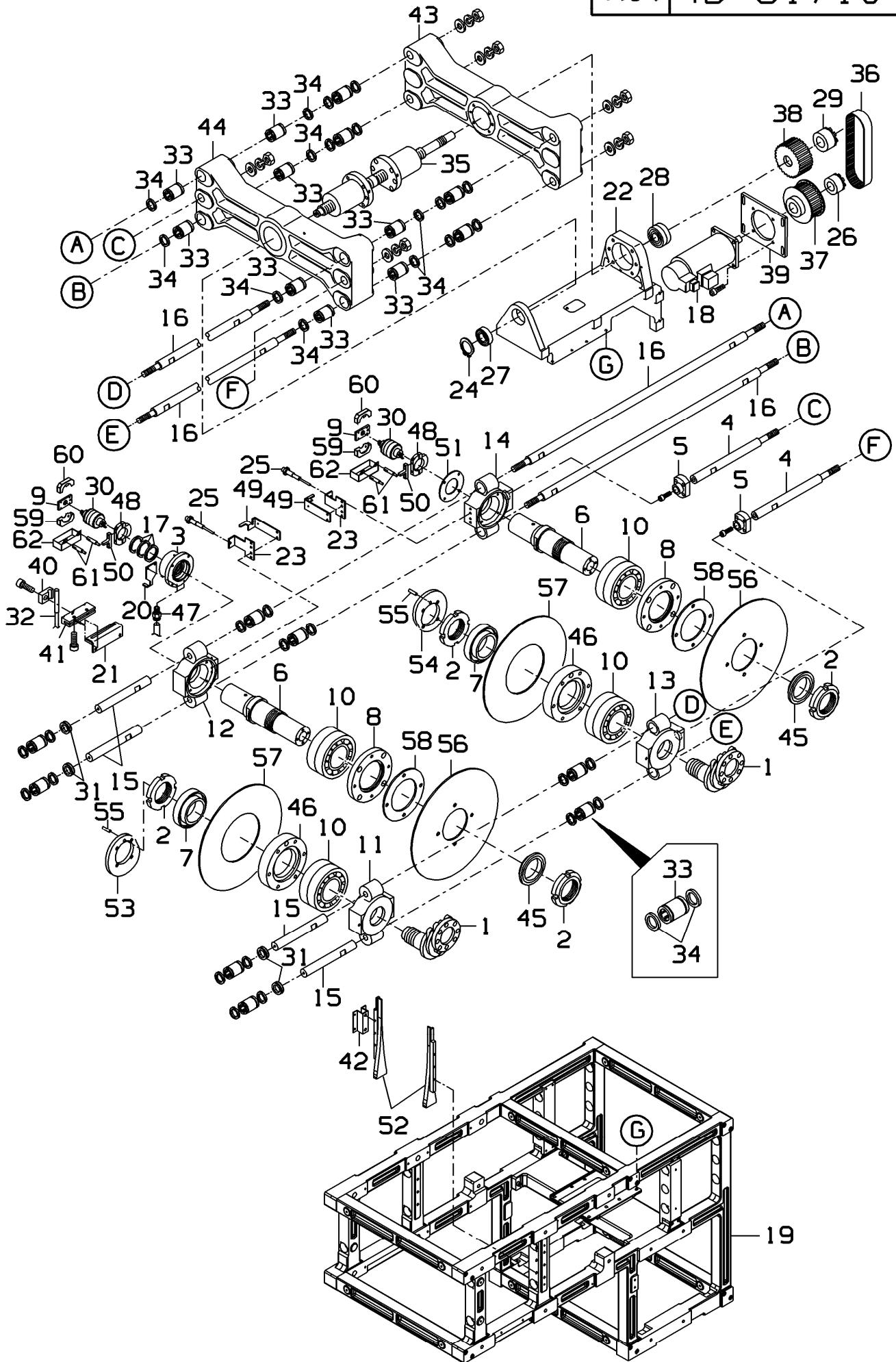
NO.	PART CODE	PART NAME	QUANTITY
●	000-137-6863-11	AIR UNIT:VACUUM:	
1	000-126-8608-09	BASE:VACUUM PUMP:	1
2	000-123-3073-25	COVER:PUMP:	1
3	000-123-9060-01	SPACER::	1
4	000-076-0498-09	ACCESSORY:SKINTOP:SET	1
5	000-067-3402-10	JOINT:HALF UNION:	1
6	000-107-4903-02	TUBE:POLYURETHANE:	2
7	000-050-6715-07	JOINT:HOSE:	3
8	000-004-6369-05	JOINT:ELBOW:	1
9	000-131-9074-07	TUBE::	1
10	000-065-2547-09	TUBE::	1
11	000-050-6716-01	JOINT:HOSE:	6
12	000-124-7306-06	HOSE BAND::	3
13	000-014-1275-00	JOINT:BUSH:	2
14	000-137-7950-06	SOLENOID VALVE:VALVE:	2
15	000-064-5336-03	JOINT:ROUND NIPPLE:	4
16	000-028-3145-04	JOINT:3WAY UNION:	2
17	000-052-3046-02	JOINT:ELBOW:	3
18	000-051-4927-00	AIR FILTER::	1
19	000-065-2540-03	U BOLT::	2
20	000-121-3512-29	BRACKET:FILTER:	1
21	000-124-7305-02	HOSE BAND::	8
22	000-124-9610-33	PUMP:VACUUM:	1
23	000-095-0105-06	JOINT:LONG NIPPLE:	1
24	000-095-0103-18	BRACKET:ELBOW:	1
25	000-032-1345-01	JOINT:2 STEP NIPPLE:	1
26	000-095-4000-03	HARNESS:C5:	1
27	000-137-9032-04	HARNESS:C5:VACUUM PUMP	1
28	000-051-7591-03	TUBE::	1
29	000-001-9347-02	GROMMET:W/DIAPHRAGM:	1



UNIT NAME	DRIVE UNIT:END SEAL:	DRAW NO.	4D-32762
-----------	----------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-135-3825-04	DRIVE UNIT:END SEAL:	
1	000-101-1007-01	GEAR:SPIRAL:	1
2	000-101-1004-00	GEAR:SPIRAL:	1
3	000-101-1005-03	GEAR:SPIRAL:	1
4	000-094-6782-02	KEY:PARALLEL:BOTH ENDS ROUND	1
5	000-091-4987-00	COVER:LABYRINTH:	2
6	000-091-4988-03	HOUSING:PUSHER:SHIFT DOWN	1
7	000-091-4989-07	HOUSING:SHIFT DOWN:SUPPORT	1
8	000-094-6783-15	SHAFT:SHIFT DOWN:	1
9	000-091-4992-09	HOUSING:SHIFT DOWN:	1
10	000-094-6784-19	SHAFT:MAIN:	2
11	000-094-6785-03	HOUSING:MAIN:	1
12	000-094-6786-07	HOUSING:PUSHER:MAIN	2
13	000-094-6502-24	BOX:GEAR:	1
14	000-109-6470-09	BLOCK B:LUBRICOUS:	1
15	000-094-6788-04	BASE:MOTOR:M2	1
16	000-091-8236-01	TIMING PULLEY:P8M:BF	1
17	000-094-6789-08	COVER:GEAR BOX:	1
18	000-011-6025-01	JOINT:HOSE ELBOW:	1
19	000-134-5263-01	TIMING BELT:UP8M:	1
20	000-091-8240-06	ETP BUSH::	1
21	000-134-5296-04	MOTOR:AC SERVO:	1
22	000-091-8242-03	NUT:BEARING:	3
23	000-094-6975-04	BEARING:RADIAL:ANGULAR	2
24	000-091-8244-01	BEARING:RADIAL:DEEP GROOVE	2
25	000-092-2247-16	TIMING PULLEY:P8M:A	1
26	000-094-6790-02	BLOCK B:TENSION:M2	1
27	000-092-2306-03	POWER LOCK::	1
28	000-106-7708-06	PLATE A:GEAR BOX:	1
29	000-109-6366-04	JOINT:EXTENSION JOINT:	1

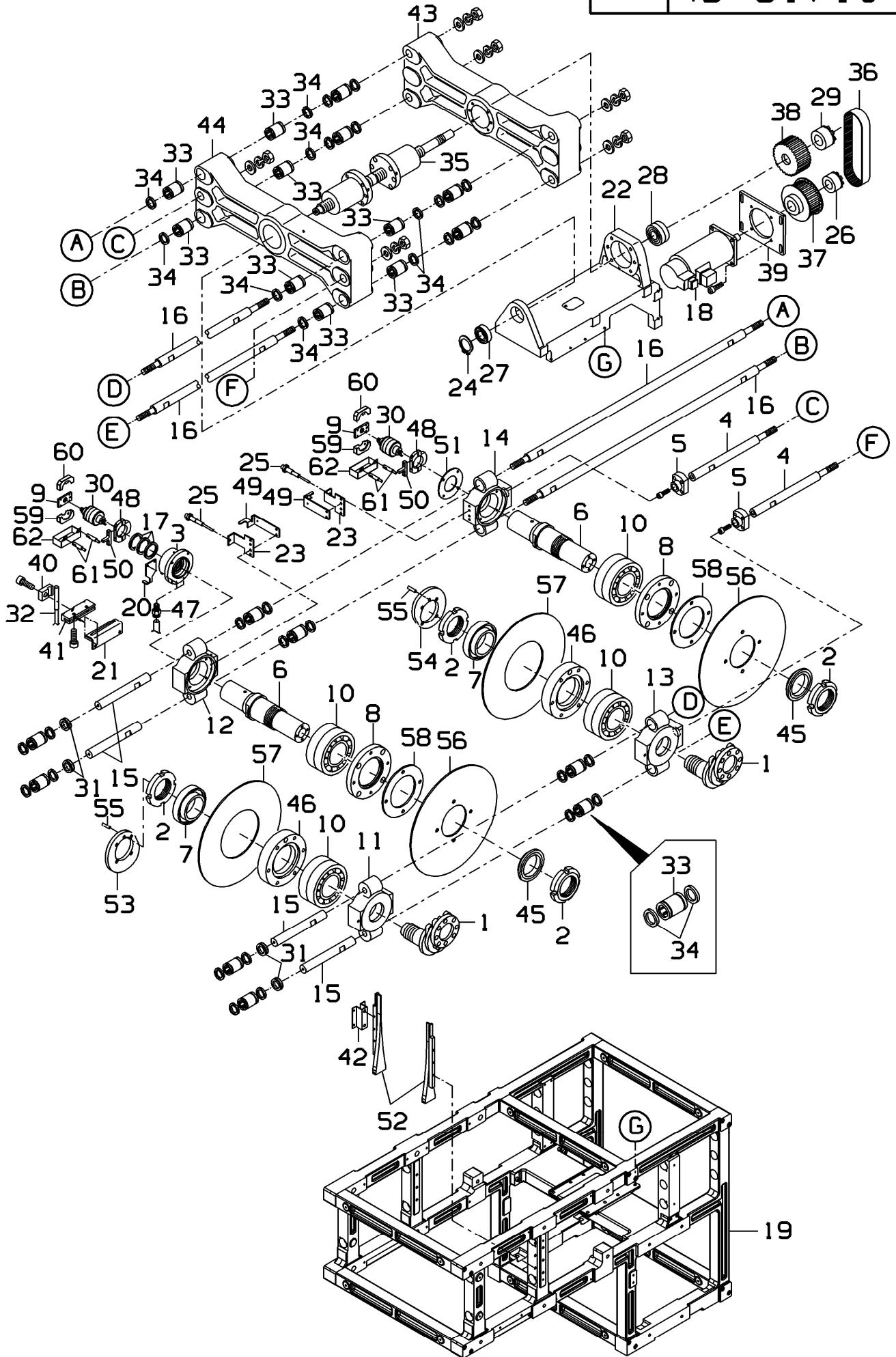
No. 4D-51710



UNIT NAME	COMPRESSCONTROL UNIT:END SEAL:	DRAW NO.	4D-51710
-----------	--------------------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-135-3827-22	COMPRESSCONTROL UNIT:END SEAL:	
1	000-091-8169-13	SHMIDT COUPLING::	2
2	000-091-8242-03	NUT:BEARING:	4
3	000-094-6857-08	HOUSING:ROTARY JOINT:	1
4	000-094-6624-07	SHAFT:FRAME:REAR	2
5	000-091-8273-09	JOINT:SHAFT:	2
6	000-094-9182-18	SHAFT:DRIVEN:	2
7	000-091-8275-06	COLLAR:SPACER:	2
8	000-093-6606-02	HOUSING:PUSHER:	2
9	100-003-8894-00	HOLDER:SLIP RING:STOPPER	2
10	000-094-6975-04	BEARING:RADIAL:ANGULAR	4
11	000-096-9161-05	FRAME:FRONT:1	1
12	000-096-9143-17	FRAME:FRONT:2	1
13	000-109-6474-12	FRAME:REAR:1	1
14	000-109-6476-10	FRAME:REAR:2	1
15	000-094-6620-02	SHAFT:FRAME:SUPPORT	4
16	000-094-6621-24	SHAFT:FRAME:FRONT	4
17	000-091-8458-01	X RING::	3
18	000-134-5297-08	MOTOR:AC SERVO:	1
19	000-134-3220-13	FRAME AS:COMPRESSCONTROL UNIT:	1
20	000-094-6826-02	PLATE B:SENSOR:	1
21	000-092-2112-35	BRACKET:SENSOR:1	1
22	000-094-2411-15	BASE:MOTOR:M3	1
23	000-093-6594-01	BRACKET:SENSOR:1	2
24	000-000-4195-08	C RING:FOR SHAFT:	1
25	100-006-2875-00	PROXIMITY SWITCH:MAGNETIC:	2
26	000-043-5314-06	COUPLING:MECHANICAL LOCK:	1
27	000-051-4627-02	BEARING:RADIAL:DEEP GROOVE	1
28	000-051-4628-15	BEARING UNIT::	1
29	000-051-4629-00	COUPLING:MECHANICAL LOCK:	1
30	000-054-9352-09	COUPLING:SLIP RING:	2
31	000-096-9188-05	V RING::	4
32	000-110-4797-12	SWITCH AS::	1
33	000-094-9184-06	BEARING:BALL BUSH:	28
34	000-069-9110-00	SCRAPER:BALL BUSH:	40
35	000-069-9332-00	SPRING SCREW::	1

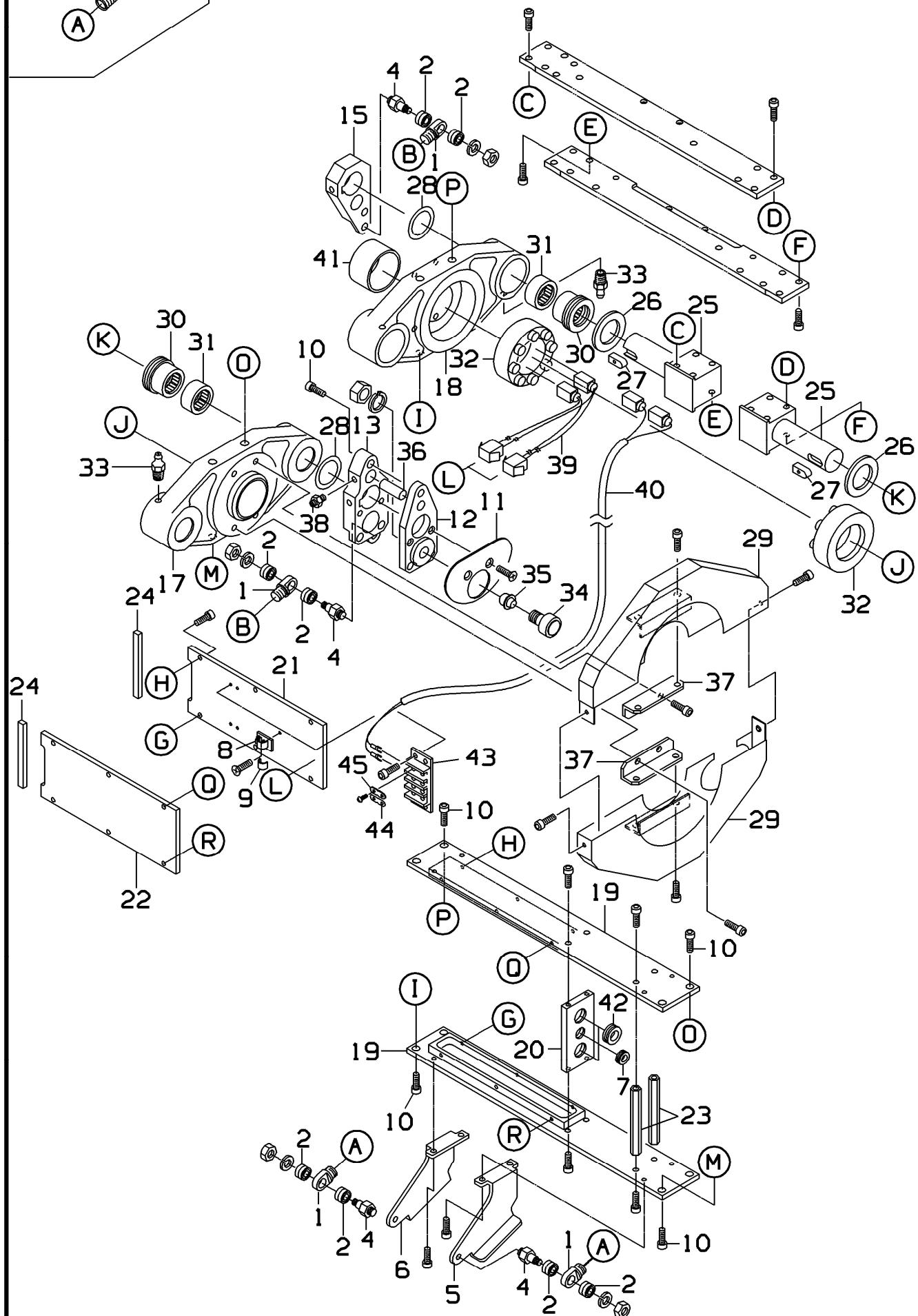
No. 4D-51710





No. 4D-36819-1

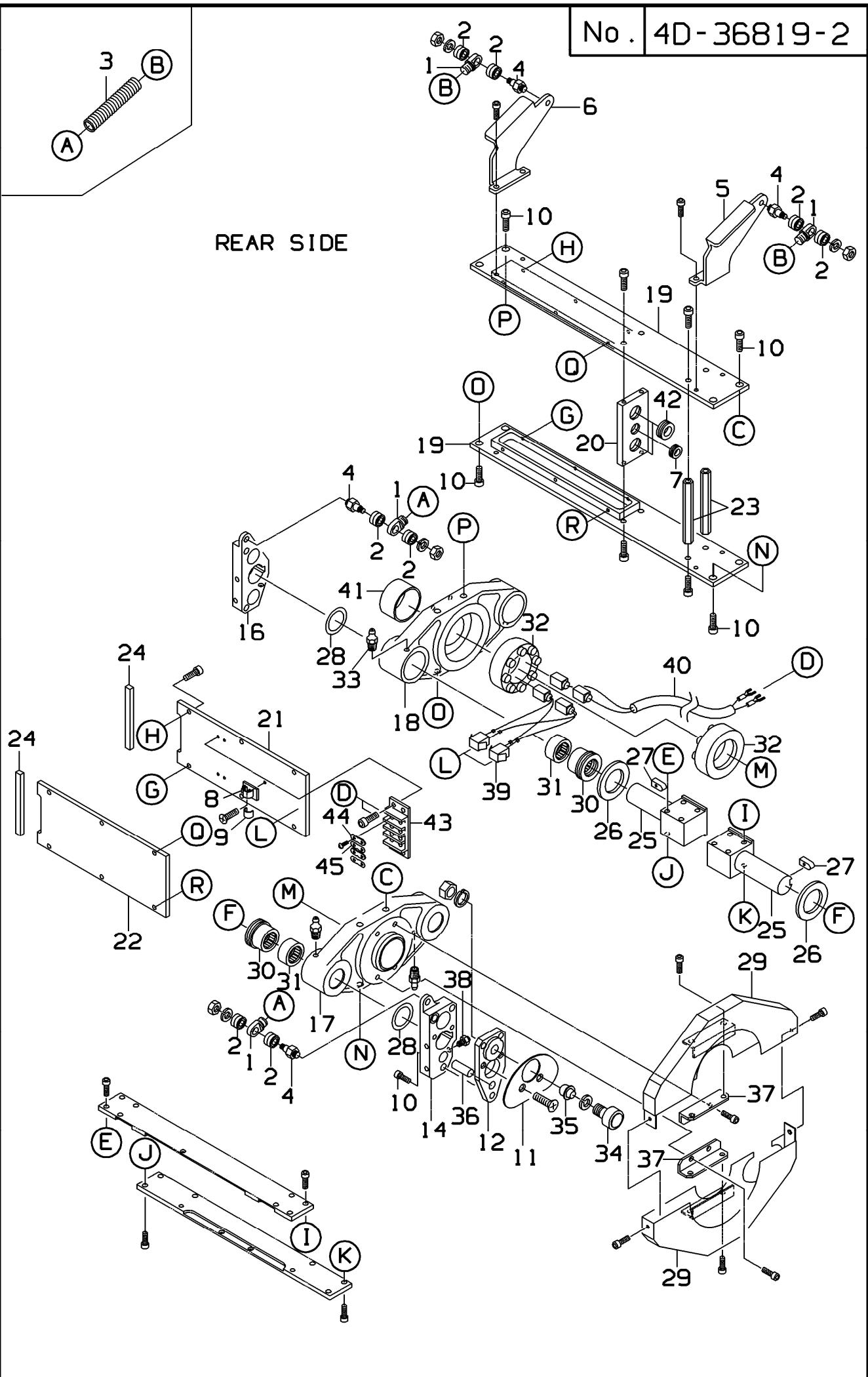
FRONT SIDE



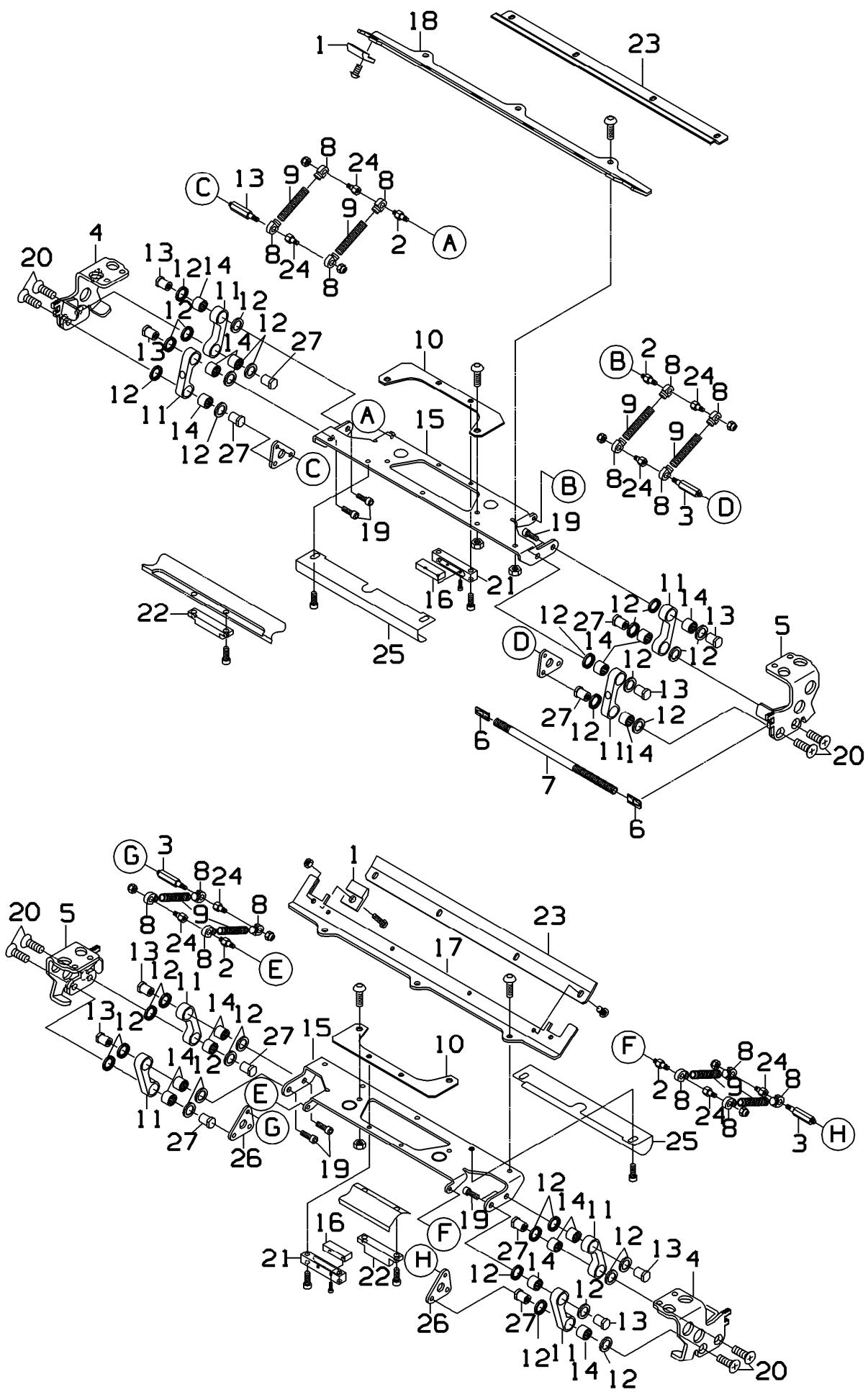
UNIT NAME	ARM UNIT:END SEAL:	DRAW NO.	4D-36819
-----------	--------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-119-8424-03	ARM UNIT:END SEAL:	
1	000-104-2173-01	HANGER:SPRING:	16
2	000-000-3727-05	BEARING:RADIAL:	32
3	000-109-6379-02	SPRING:COIL:TENSION	8
4	000-103-8718-05	PIN:THREADED:	16
5	000-103-8714-10	BRACKET:SPRING:	4
6	000-103-8715-13	BRACKET:SPRING:	4
7	000-004-3347-02	GROMMET:W/DIAPHRAGM:	2
8	000-000-2179-01	ACCESSORY:CLAMP:CKN CLAMP	6
9	000-017-0001-04	TAPE:SPONGE:ONE SIDE	6
10	000-094-9285-09	HEX SOCKET BOLT:HIGH STRENGTH:	28
11	000-094-9196-01	COVER:CAM FOLLOWER:	4
12	000-094-9324-10	LINK:CAM FOLLOWER:	4
13	000-095-0039-12	LINK:ADJUST:F	2
14	000-095-0042-14	LINK:ADJUST:R	2
15	000-095-0033-11	LINK:SPRING:F	2
16	000-095-0036-11	LINK:SPRING:R	2
17	000-094-2167-25	ARM:END SEAL:	2
18	000-094-2168-29	ARM:END SEAL:	2
19	000-101-8642-01	FRAME:ARM:	4
20	000-105-8716-11	BLOCK B:ARM:	2
21	000-115-9799-04	COVER:JUNCTION:	2
22	000-101-8548-04	COVER:JUNCTION:	2
23	000-102-8147-01	THREADED ROD:ROUND:FF	4
24	000-101-8622-07	GASKET::	1
25	000-096-9120-02	SHAFT:SUPPORT:	8
26	000-097-2046-01	COLLAR:STEP:	8
27	000-095-0025-01	KEY:PARALLEL:ONE END ROUND	8
28	000-092-2197-04	WASHER:THRUST:	8
29	000-093-6710-25	COVER:CAM:	4
30	000-092-2310-09	BEARING:THRUST:	8
31	000-092-2311-02	BEARING:NEEDLE:	8
32	000-092-2312-06	POWER LOCK::	4
33	000-057-9445-03	GREASE NIPPLE::	8
34	000-097-2324-07	CAM FOLLOWER:SPHERICAL:	4
35	000-097-2325-01	GREASE NIPPLE::	4

No. 4D-36819-2

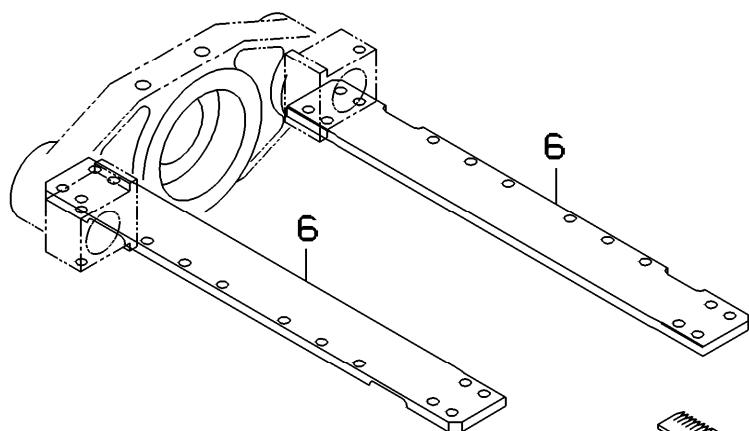




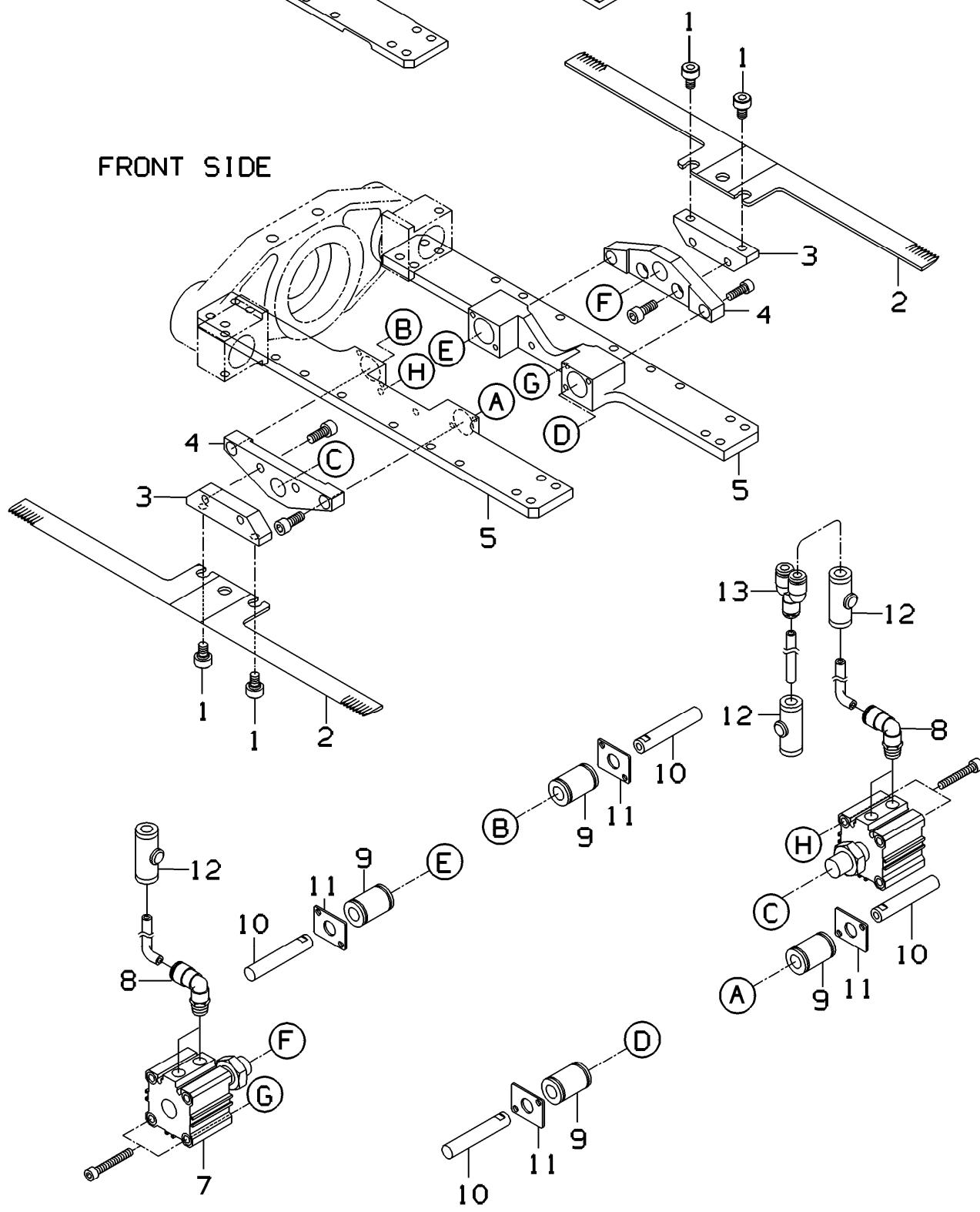


UNIT NAME	STRIPPING UNIT:END SEAL:	DRAW NO.	4D-43399
-----------	--------------------------	----------	----------

## REAR SIDE

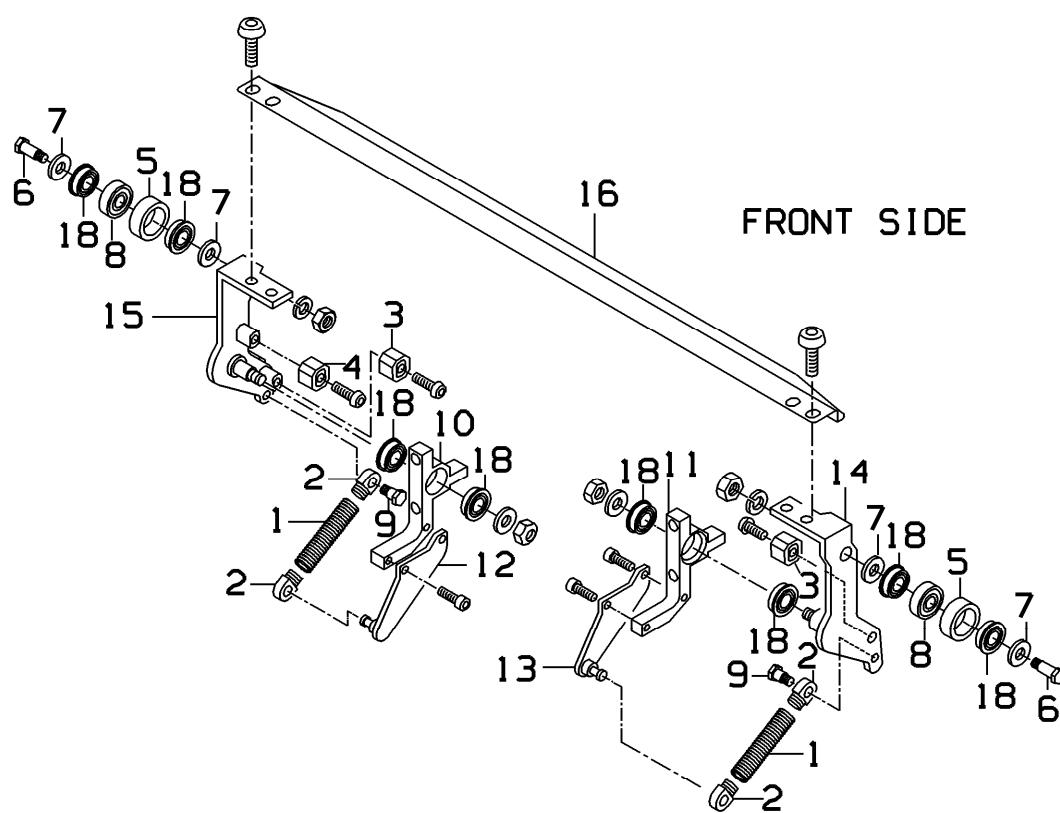
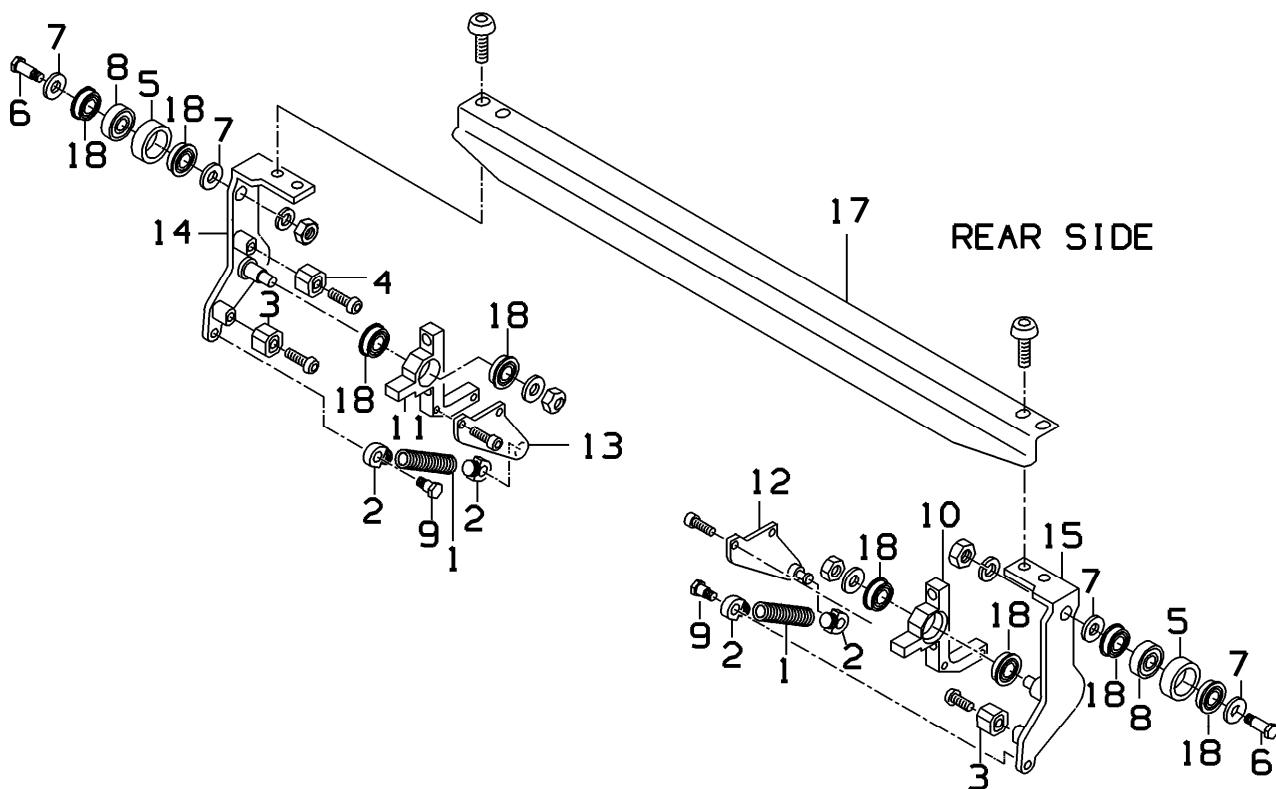


## FRONT SIDE



UNIT NAME	KNIFE UNIT:END SEAL:	DRAW NO.	4D-32060
-----------	----------------------	----------	----------

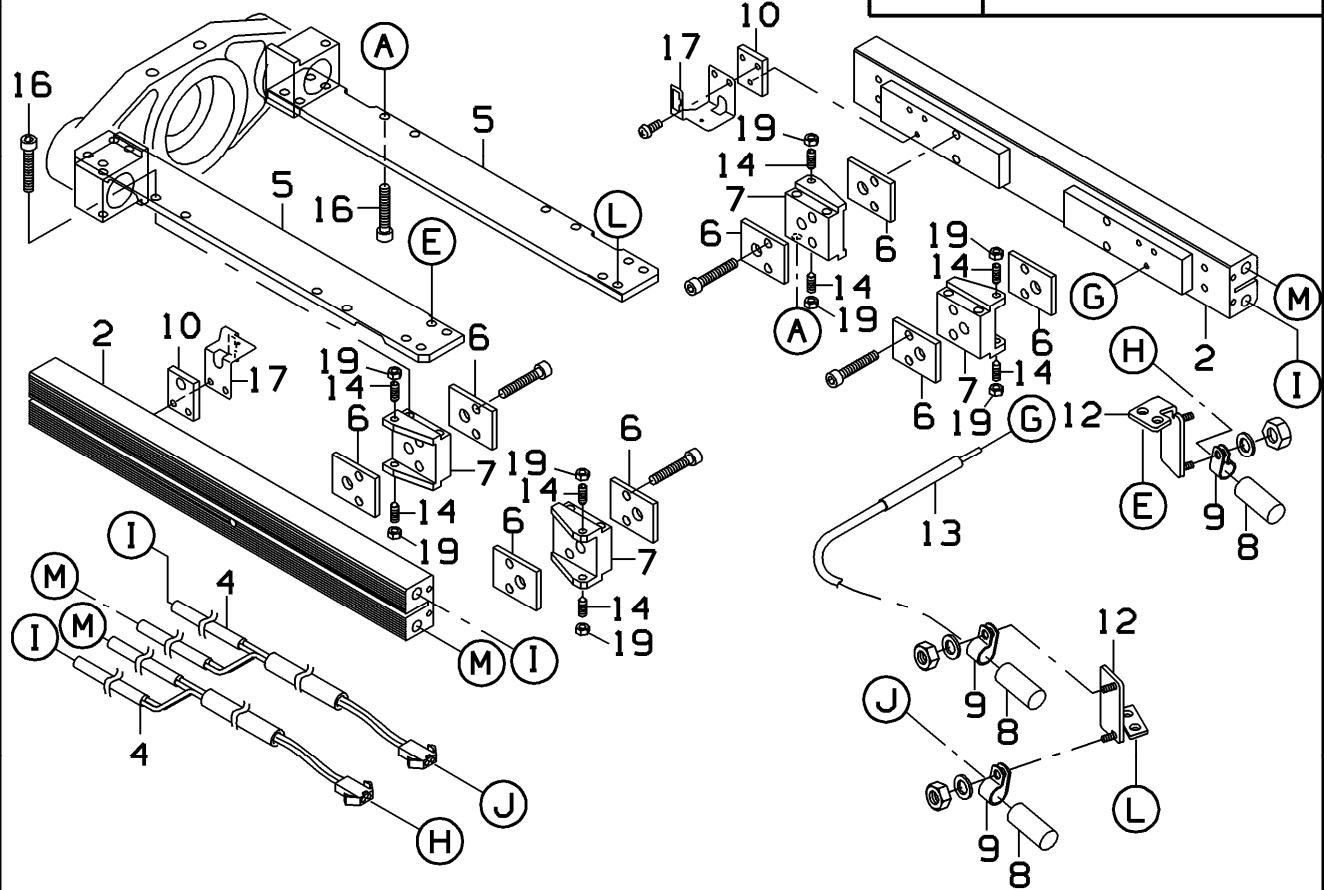
No. 4D-32933



UNIT NAME	SHUTTER UNIT:END SEAL:	DRAW NO.	4D-32933
-----------	------------------------	----------	----------

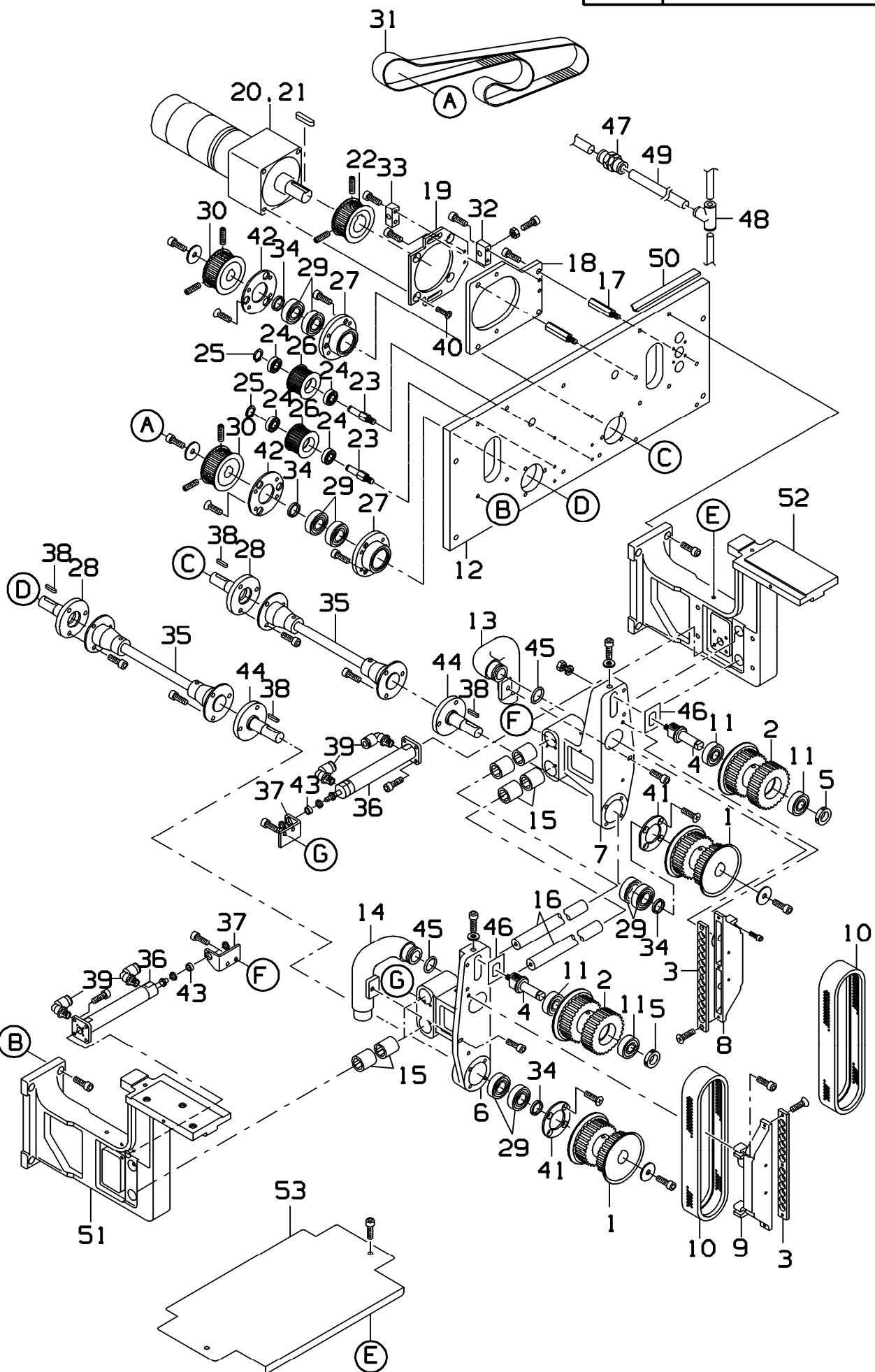
## REAR SIDE

No. 4D-52212



UNIT NAME	HEATER UNIT:END SEAL:	DRAW NO.	4D-52212
-----------	-----------------------	----------	----------

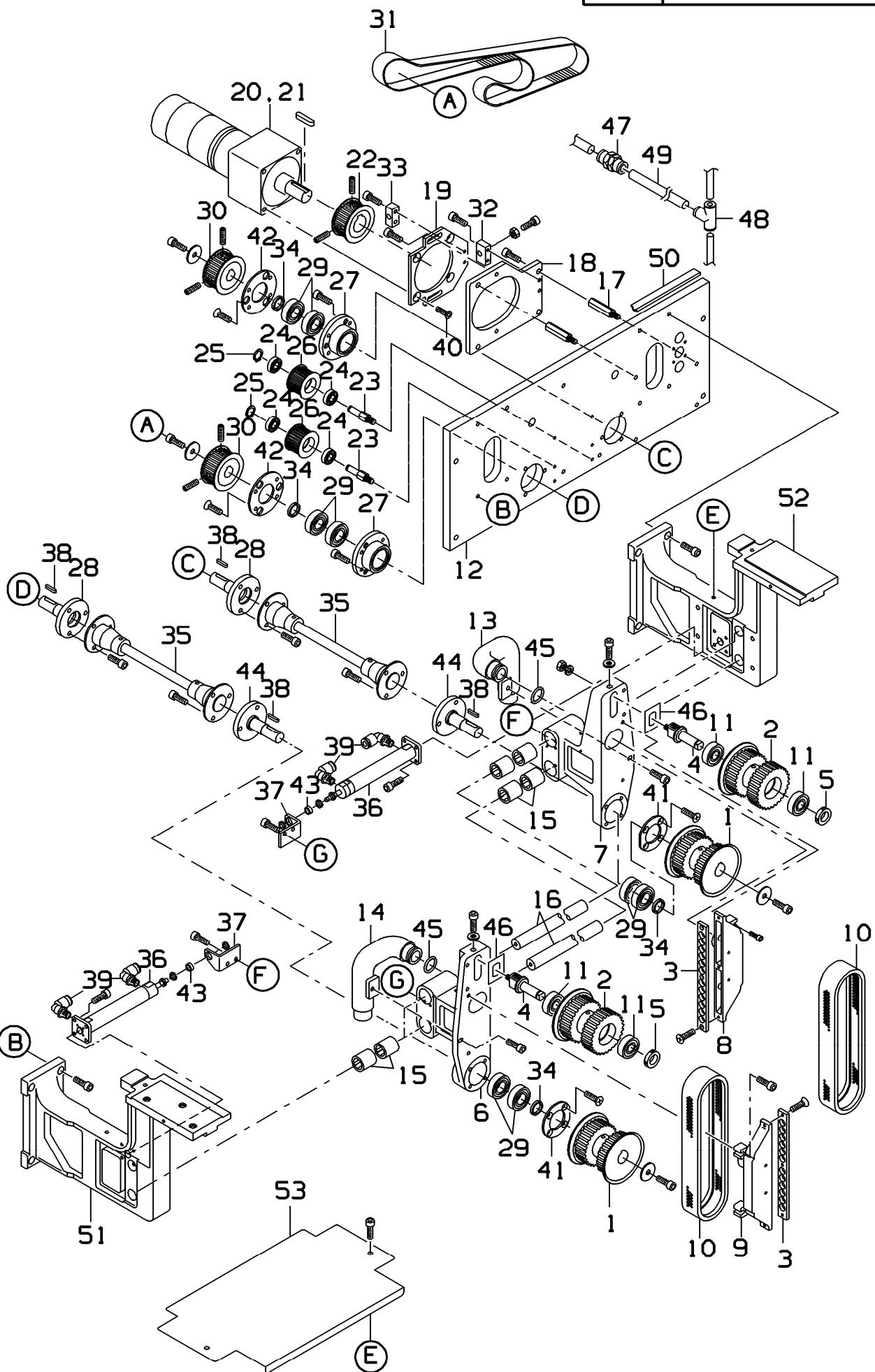
No. 4D-42028



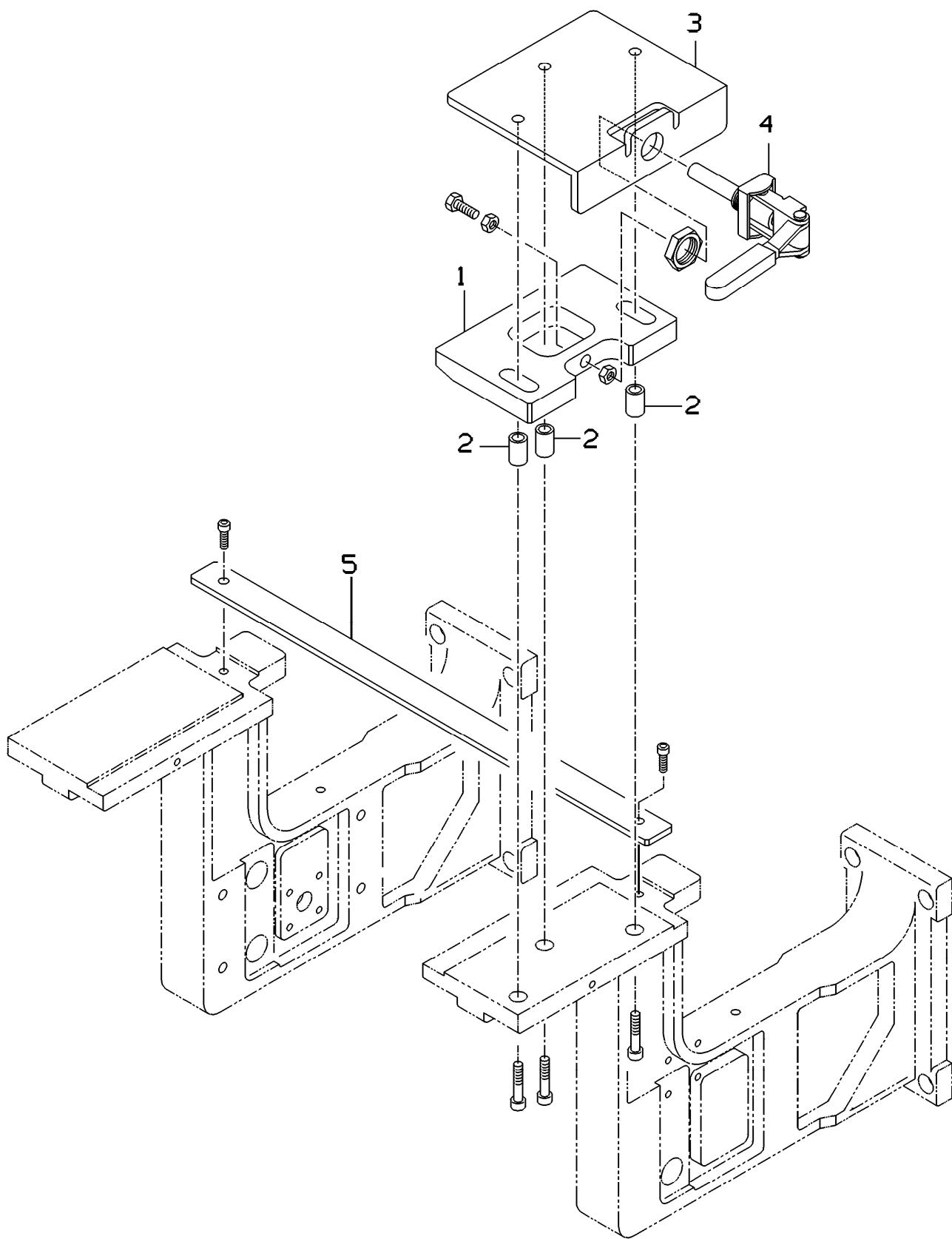
UNIT NAME	PULL DOWN UNIT:BACK SEAL:	DRAW NO.	4D-42028
-----------	---------------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-133-3936-00	PULL DOWN UNIT:BACK SEAL:	
1	000-119-9424-07	TIMING PULLEY:H:AF	2
2	000-118-8957-04	TIMING PULLEY:H:AF	2
3	000-064-9354-05	SLIDE:BELT:PULL DOWN	2
4	000-118-8960-06	SHAFT:DRIVEN:	2
5	000-118-8961-00	COLLAR A:STEP:	2
6	000-111-7315-09	BASE:PULL BELT:	1
7	000-111-7316-02	BASE:PULL BELT:	1
8	000-064-9193-30	CHAMBER:VACUUM:	1
9	000-064-9194-33	CHAMBER:VACUUM:	1
10	000-062-1015-09	TIMING BELT:H:	2
11	000-000-3643-06	BEARING:RADIAL:DEEP GROOVE	4
12	000-086-1704-27	BASE:PULL DOWN:	1
13	000-064-9200-05	JOINT:HOSE:	1
14	000-064-9201-09	JOINT:HOSE:	1
15	000-094-9354-02	BEARING:BALL BUSH:	8
16	000-094-6917-17	SHAFT:SLIDER:	2
17	000-094-6919-05	THREADED ROD:HEX:MF	4
18	000-094-9444-13	BASE:MOTOR:	1
19	000-105-3771-00	BASE:MOTOR:	1
20	000-133-1249-07	MOTOR:AC SERVO:	1
21	000-133-1250-01	GEAR HEAD::	1
22	000-091-8456-03	TIMING PULLEY:S5M:A	1
23	000-094-6918-11	DISTANCE:M:	2
24	000-000-3659-05	BEARING:RADIAL:DEEP GROOVE	4
25	000-008-3343-07	C RING:FOR SHAFT:	2
26	000-091-8490-10	TIMING PULLEY:S5M:A	2
27	000-094-6922-07	METAL::	2
28	000-116-1469-03	SHAFT:TRIBALL:DRIVE R	2
29	000-028-1556-04	BEARING:RADIAL:DEEP GROOVE	8
30	000-094-6920-00	TIMING PULLEY:S5M:A	2
31	000-091-8500-04	TIMING BELT:S5M:	1
32	000-091-8307-01	BLOCK A:TENSION:	1
33	000-091-8308-05	BLOCK A:TENSION:	1
34	000-106-1723-01	COLLAR::	4
35	000-133-1254-06	JOINT AS::	2

No. 4D-42028

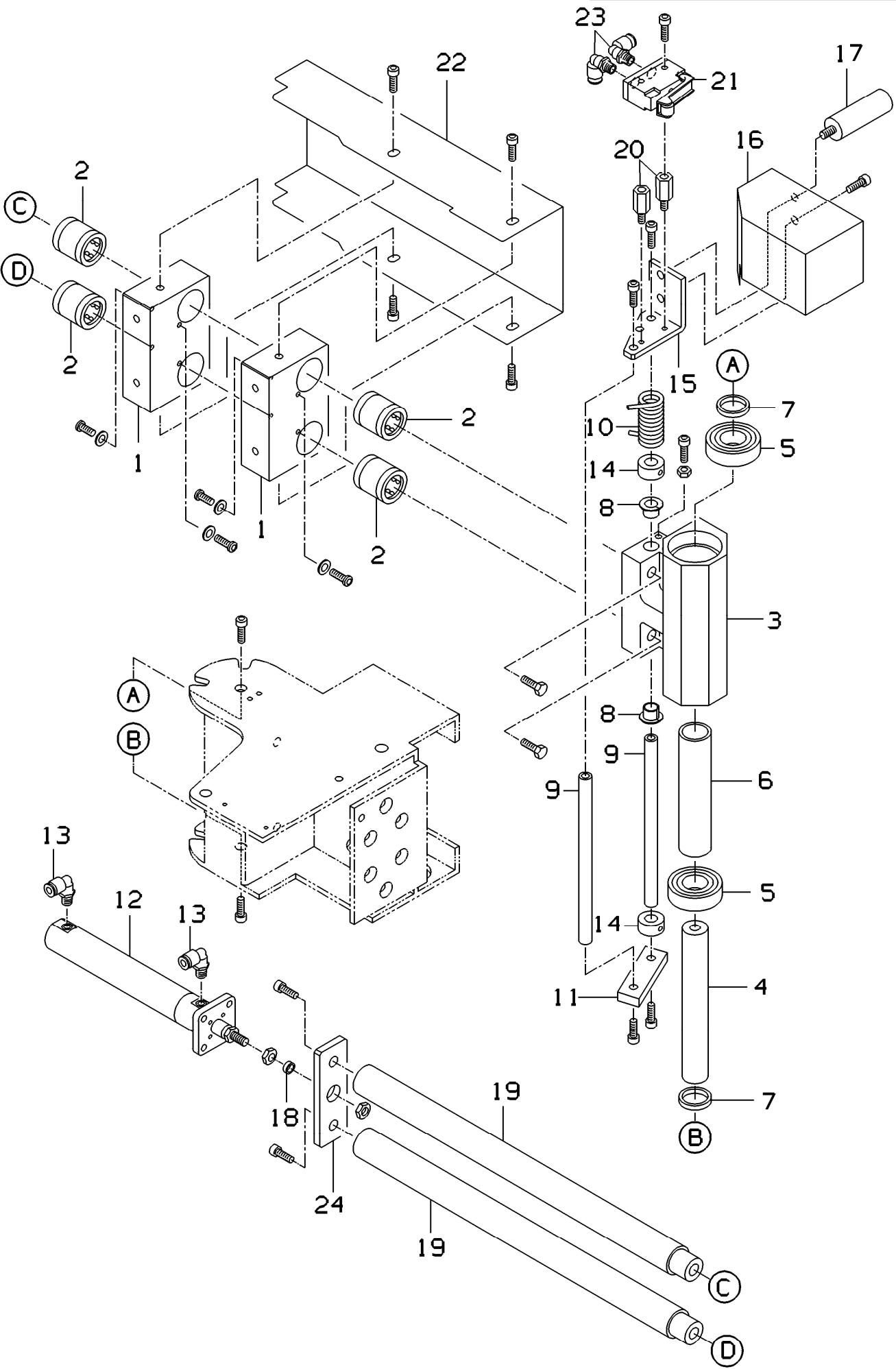


UNIT NAME	PULL DOWN UNIT:BACK SEAL:	DRAW NO.	4D-42028
-----------	---------------------------	----------	----------

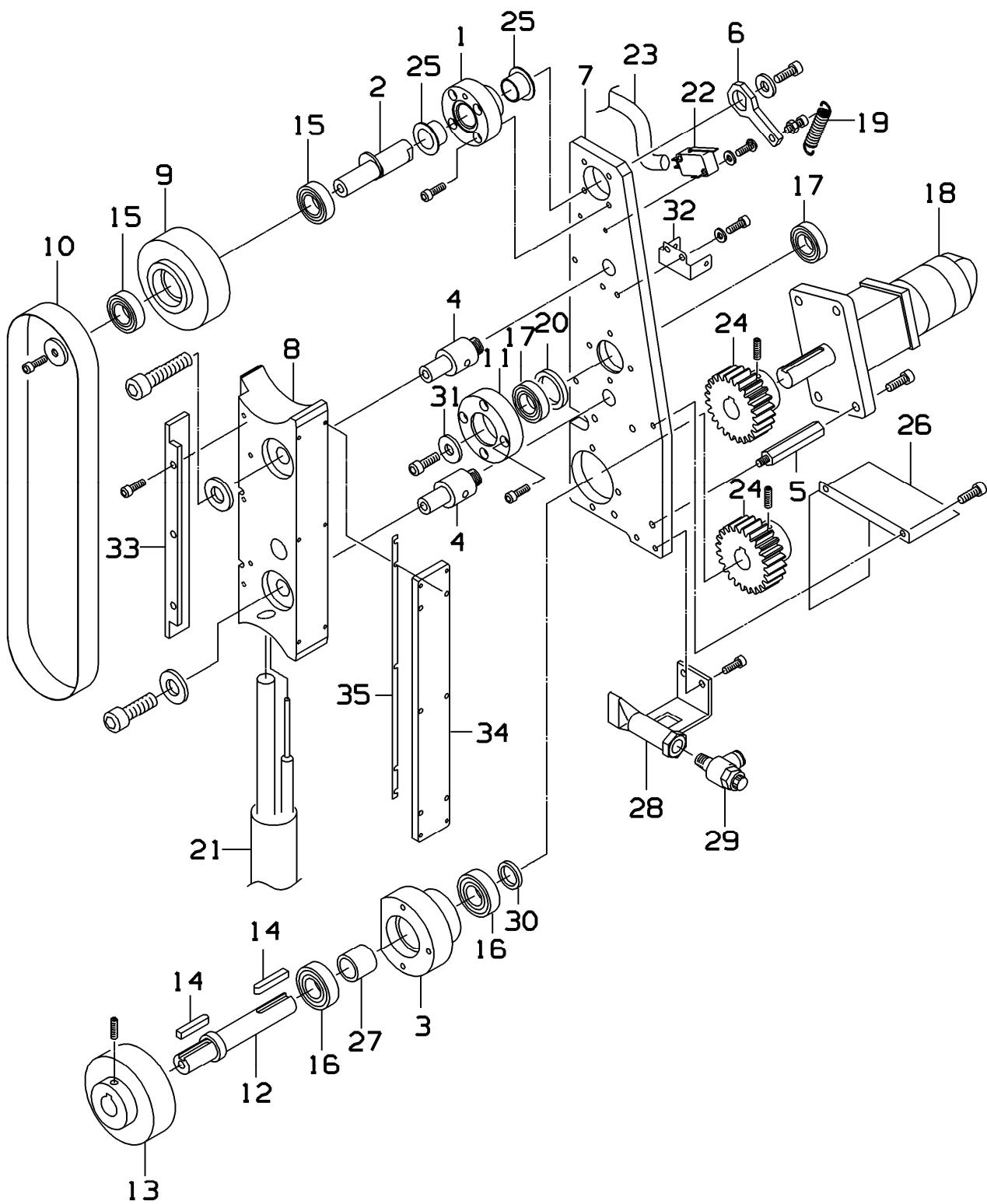


UNIT NAME	FORMER UNIT::	DRAW NO.	4D-20100
-----------	---------------	----------	----------

No. 4D-31722



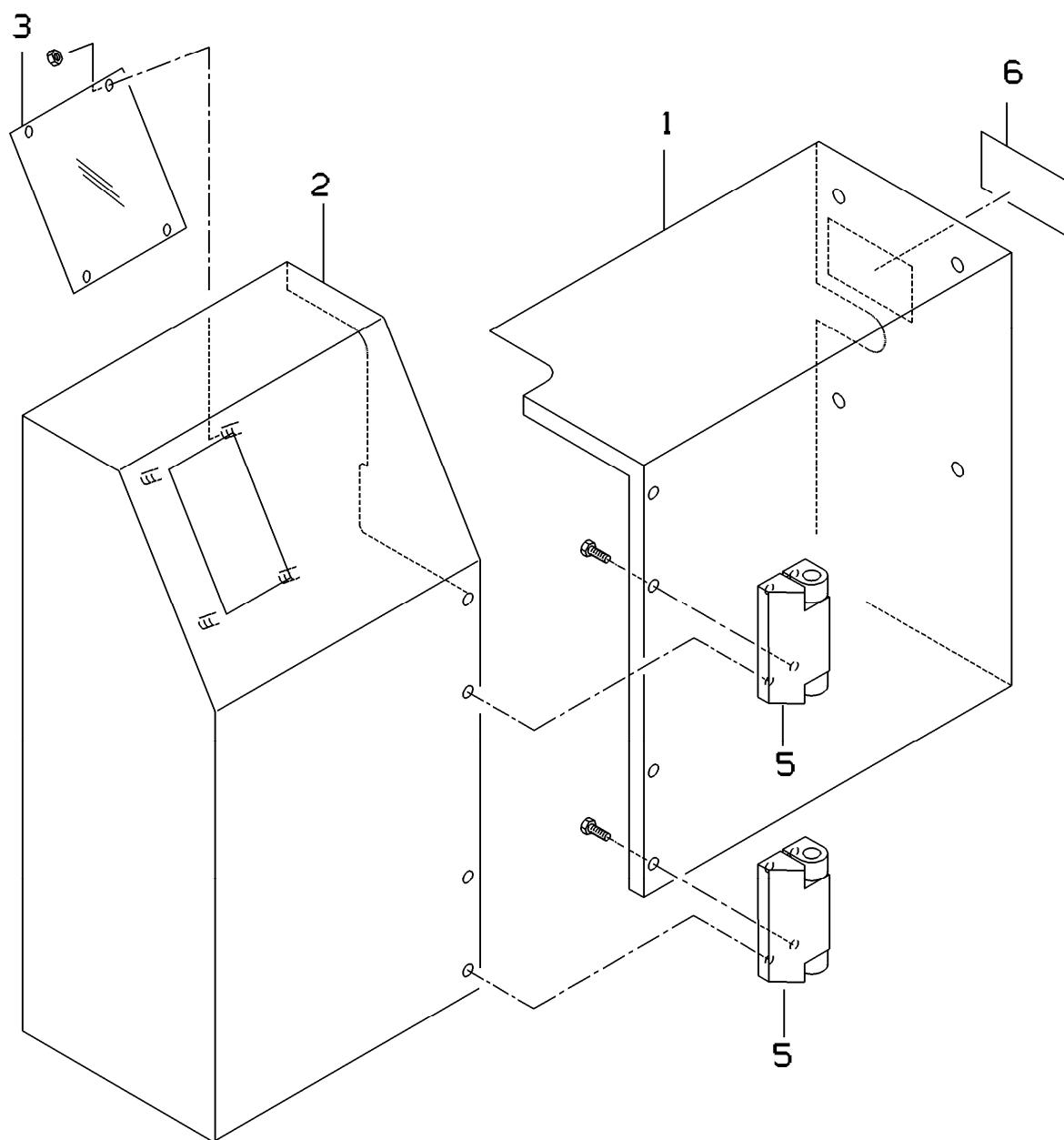
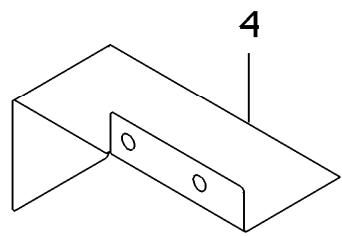
UNIT NAME	ARM UNIT:BACK SEAL:	DRAW NO.	4D-31722
-----------	---------------------	----------	----------



UNIT NAME	HEATER UNIT:BACK SEAL:	DRAW NO.	4D-44379
-----------	------------------------	----------	----------

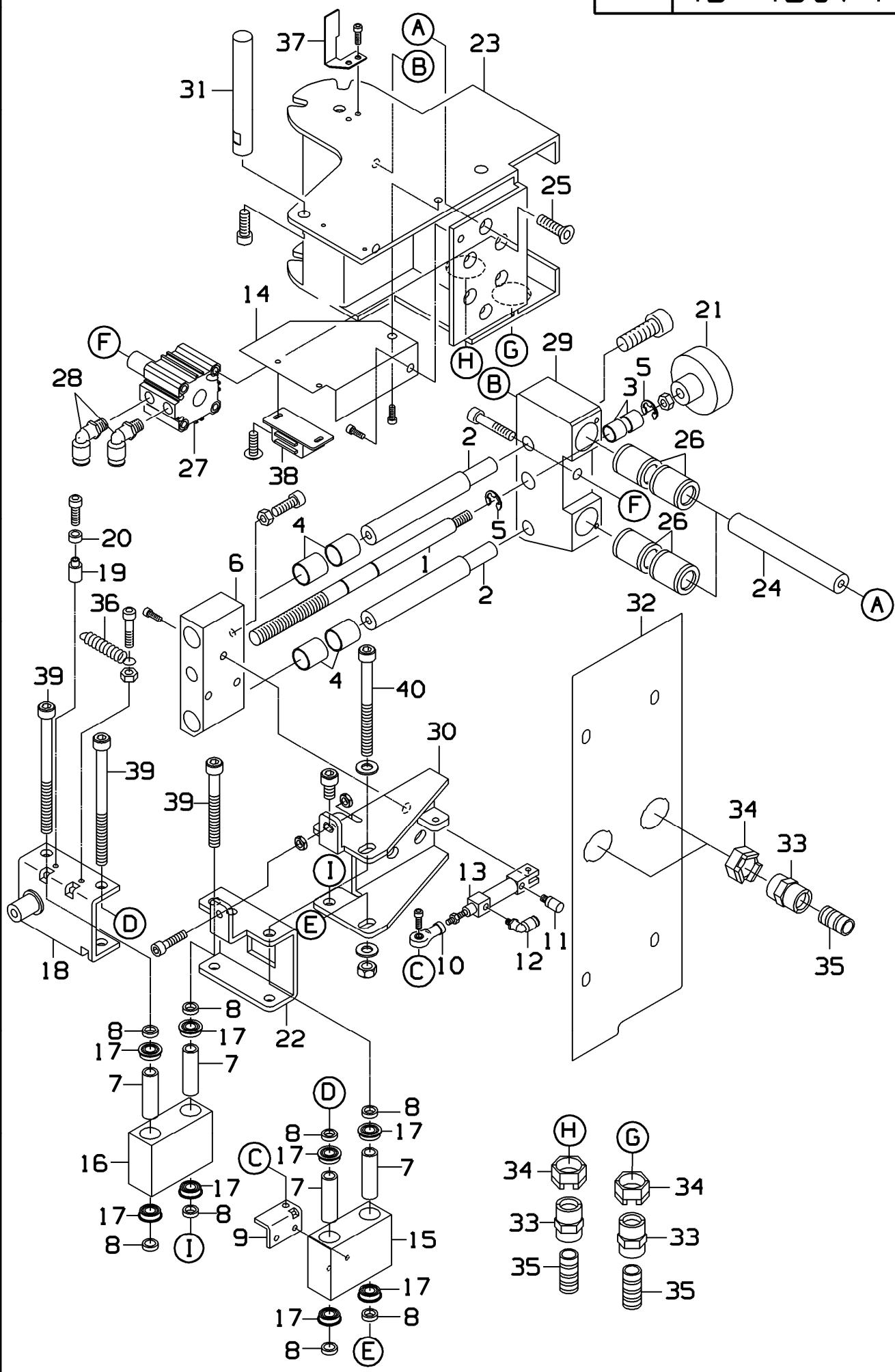
NO.	PART CODE	PART NAME	QUANTITY
●	000-116-5397-41	HEATER UNIT:BACK SEAL:	
1	000-064-5488-15	SUPPORTER:PULLEY:	1
2	000-072-3618-01	SHAFT:DRIVEN PULLEY:	1
3	000-070-8359-19	HOUSING:DRIVE:	1
4	000-050-6874-06	DISTANCE:HEATER:	2
5	000-064-7078-00	THREADED ROD:HEX:MF	4
6	000-072-3617-07	LEVER:TENSION:	1
7	000-094-9044-35	BASE:HEATER:	1
8	000-101-4877-14	BLOCK B:HEATER:	1
9	000-050-6895-13	PULLEY:HEATER:	1
10	000-050-6898-14	BELT:HEATER:	1
11	000-064-7075-09	HOUSING::	1
12	000-058-8830-17	SHAFT:DRIVE:	1
13	000-051-4615-17	PULLEY:HEATER:DRIVE	1
14	000-058-8831-01	KEY:PARALLEL:ONE END ROUND	2
15	000-058-1579-07	BEARING:RADIAL:DEEP GROOVE	2
16	000-058-1580-01	BEARING:RADIAL:DEEP GROOVE	2
17	000-058-1581-05	BEARING:RADIAL:DEEP GROOVE	2
18	000-113-1408-13	MOTOR:AC SERVO:	1
19	000-064-9111-07	SPRING:COIL:COMPRESSIVE	1
20	000-051-4867-19	COLLER:SPACER:OUTER	1
21	000-111-0211-01	HEATER AS:VERTICAL:	1
22	000-109-0161-06	MICRO SWITCH AS::	1
23	000-111-9209-04	TUBE:HEATPROOF:	1
24	000-094-9479-04	GEAR:FLAT:	2
25	000-051-4904-04	BUSH:DU:	2
26	000-094-9041-07	COVER:GEAR:	1
27	000-058-8832-23	COLLAR::	1
28	000-062-1329-17	NOZZLE:BACKSEAL:	1
29	000-101-8501-00	SPEED CONTROLL:ONE TOUCH:ELBOW	1
30	000-050-6804-14	COLLAR::	1
31	000-064-9208-04	WASHER::	1
32	000-117-8147-07	BRACKET:HEATER:VERTICAL	1
33	000-105-6719-15	BLOCK B:HEATER:	1
34	000-104-0496-16	PLATE A::	1
35	000-107-7072-18	SHIM::	1

No. 4D-31726



UNIT NAME	COVER UNIT:BACK SEAL:	DRAW NO.	4D-31726
-----------	-----------------------	----------	----------

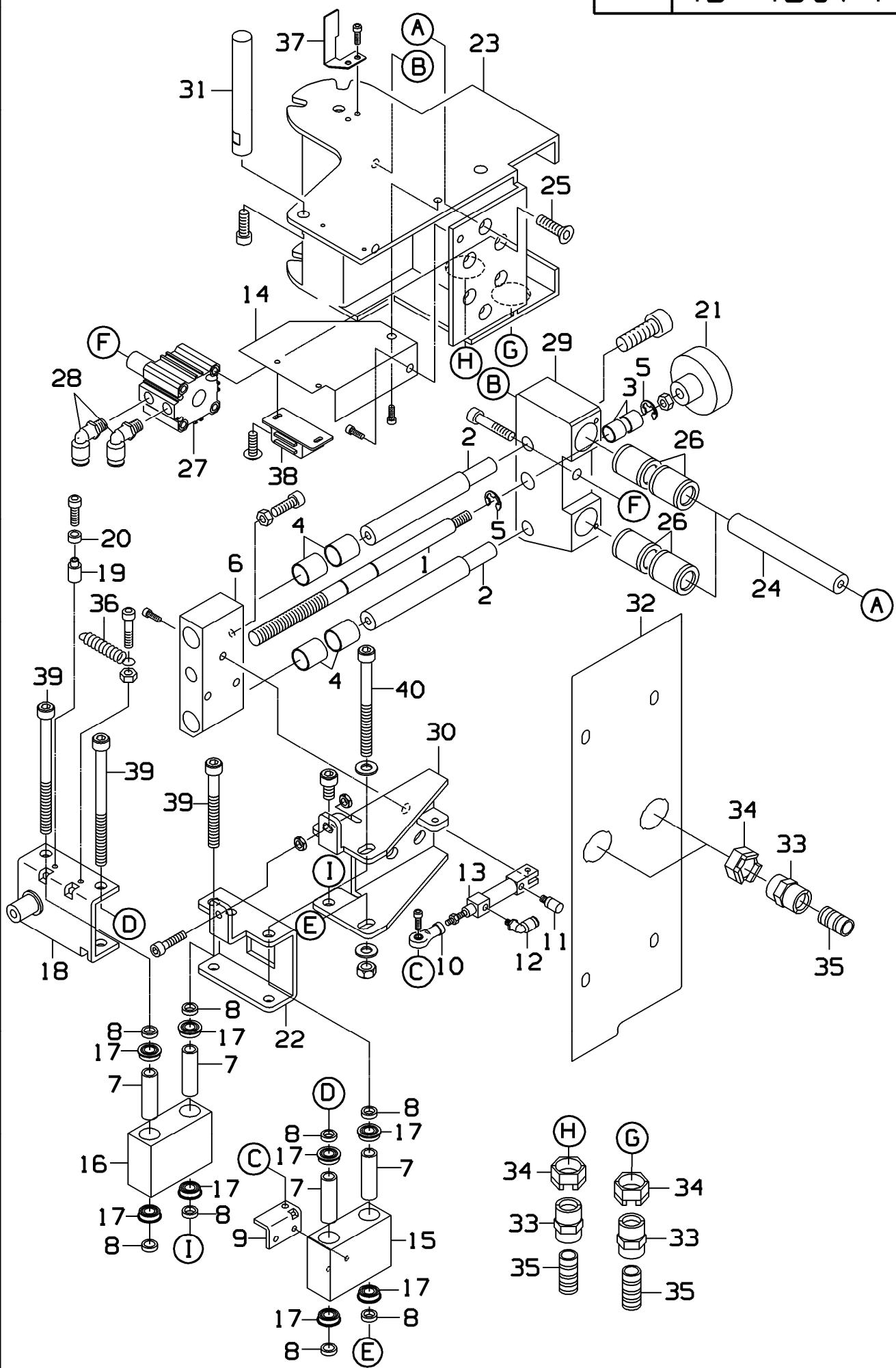
No. 4D-43074



UNIT NAME	POSITIONING UNIT:BACK SEAL:	DRAW NO.	4D-43074
-----------	-----------------------------	----------	----------

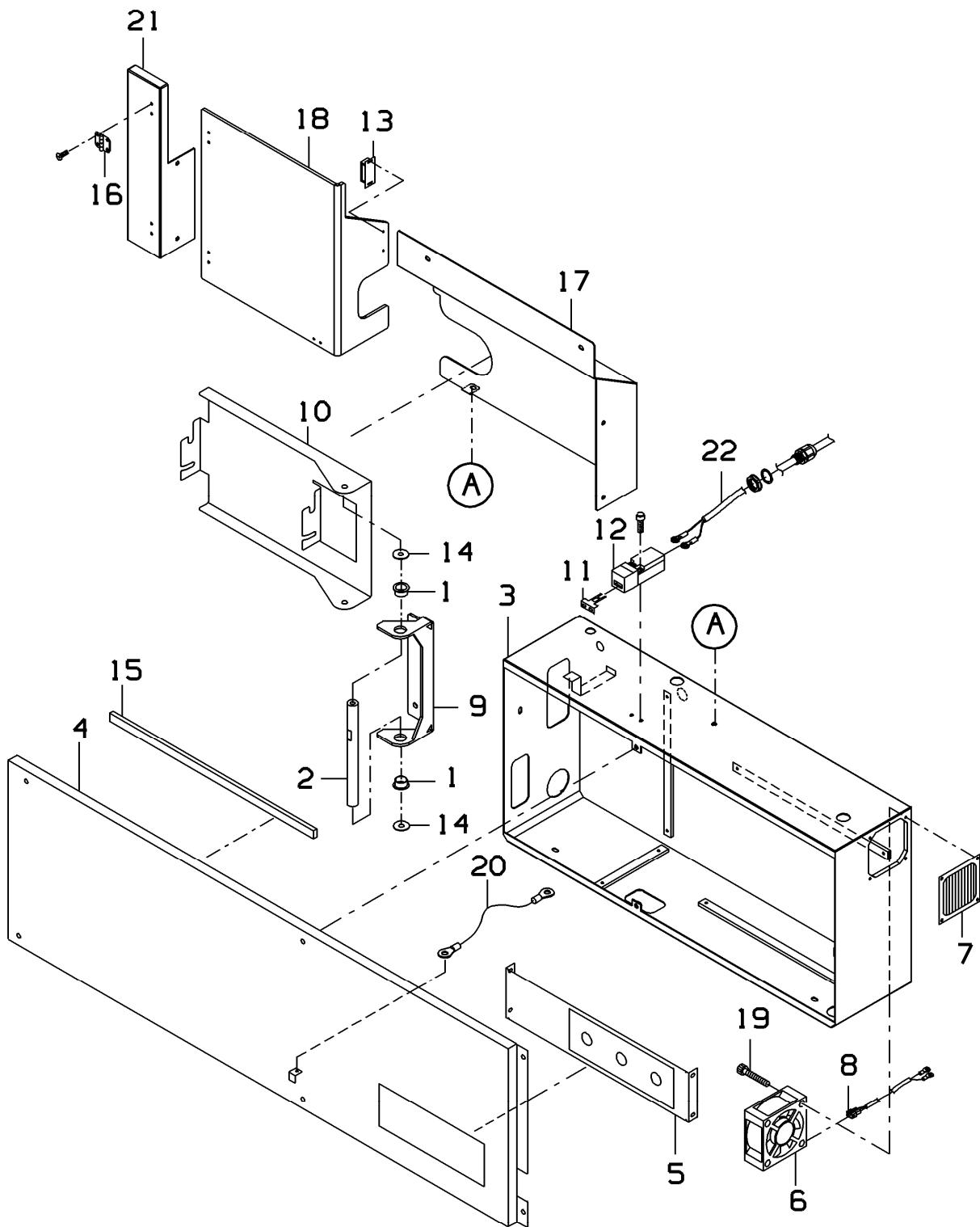
NO.	PART CODE	PART NAME	QUANTITY
●	000-133-3938-43	POSITIONING UNIT:BACK SEAL:	
1	000-104-6608-09	SCREW:FEED:	1
2	000-104-6609-02	GUIDE:FEED:	2
3	000-000-4013-03	BUSH:DU:	2
4	000-003-6233-05	BUSH:DU:	4
5	000-002-1902-08	E RING::	2
6	000-104-6554-20	SUPPORTER:HEATER UNIT:	1
7	000-104-6559-00	COLLAR::	4
8	000-104-6558-06	COLLAR::	8
9	000-086-9218-04	L PLATE B:CYLINDER:	1
10	000-017-7386-03	ROD END:TYPE I:F	1
11	000-087-1996-07	SILENCER::	1
12	000-022-4233-18	JOINT:ELBOW UNION:	1
13	000-066-4974-01	AIR CYLINDER::	1
14	000-106-5125-17	L PLATE B::	1
15	000-104-6606-01	LINK:DOUBLE:	1
16	000-104-6607-05	LINK:DOUBLE:	1
17	000-000-3727-05	BEARING:RADIAL:	8
18	000-140-1491-19	U PLATE B:LINK:1	1
19	000-068-3845-04	SPACER:HEAT:BACK	1
20	000-068-3846-08	DAMPER:HEAT:BACK	1
21	000-074-7846-02	KNOB::	1
22	000-110-7064-07	U PLATE B:LINK:2	1
23	000-137-7934-15	BASE:POSITIONING UNIT:	1
24	000-092-2074-28	SHAFT:SLIDER:	2
25	000-003-2567-04	HEX SOCKET FLAT BOLT::	6
26	000-094-9353-09	BEARING:BALL BUSH:	4
27	000-094-9405-09	PNEUMATIC CYLINDER::	1
28	000-067-3404-17	JOINT:ELBOW UNION:	2
29	000-092-2075-03	BLOCK B:SLIDER:	1
30	000-110-7066-04	BRACKET:LINK:	1
31	000-092-2082-00	SHAFT::	1
32	000-137-6956-04	PLATE B:JUNCTION:	1
33	000-136-9881-11	ACCESSORY:JOINT:	4
34	000-136-9882-15	ACCESSORY:LOCK NUT:	4
35	000-104-6593-16	ACCESSORY:FLEXIBLE:TUBE	2

No. 4D-43074



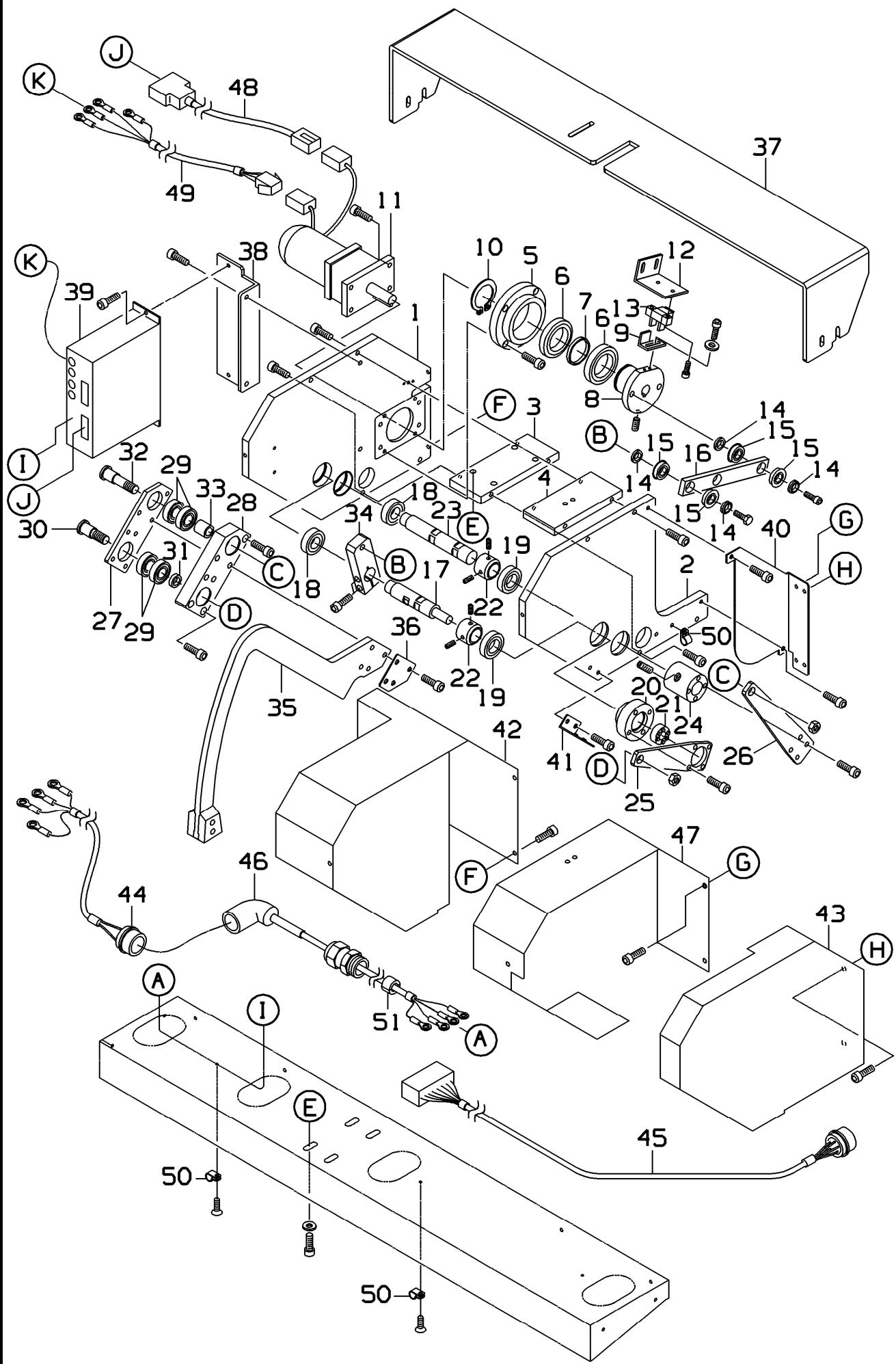
Scal 1:4

UNIT NAME	POSITIONING UNIT: BACK SEAL:	DRAW NO.	4D-43074
-----------	------------------------------	----------	----------



UNIT NAME	OPERATION UNIT:FRONT:	DRAW NO.	4D-52473
-----------	-----------------------	----------	----------

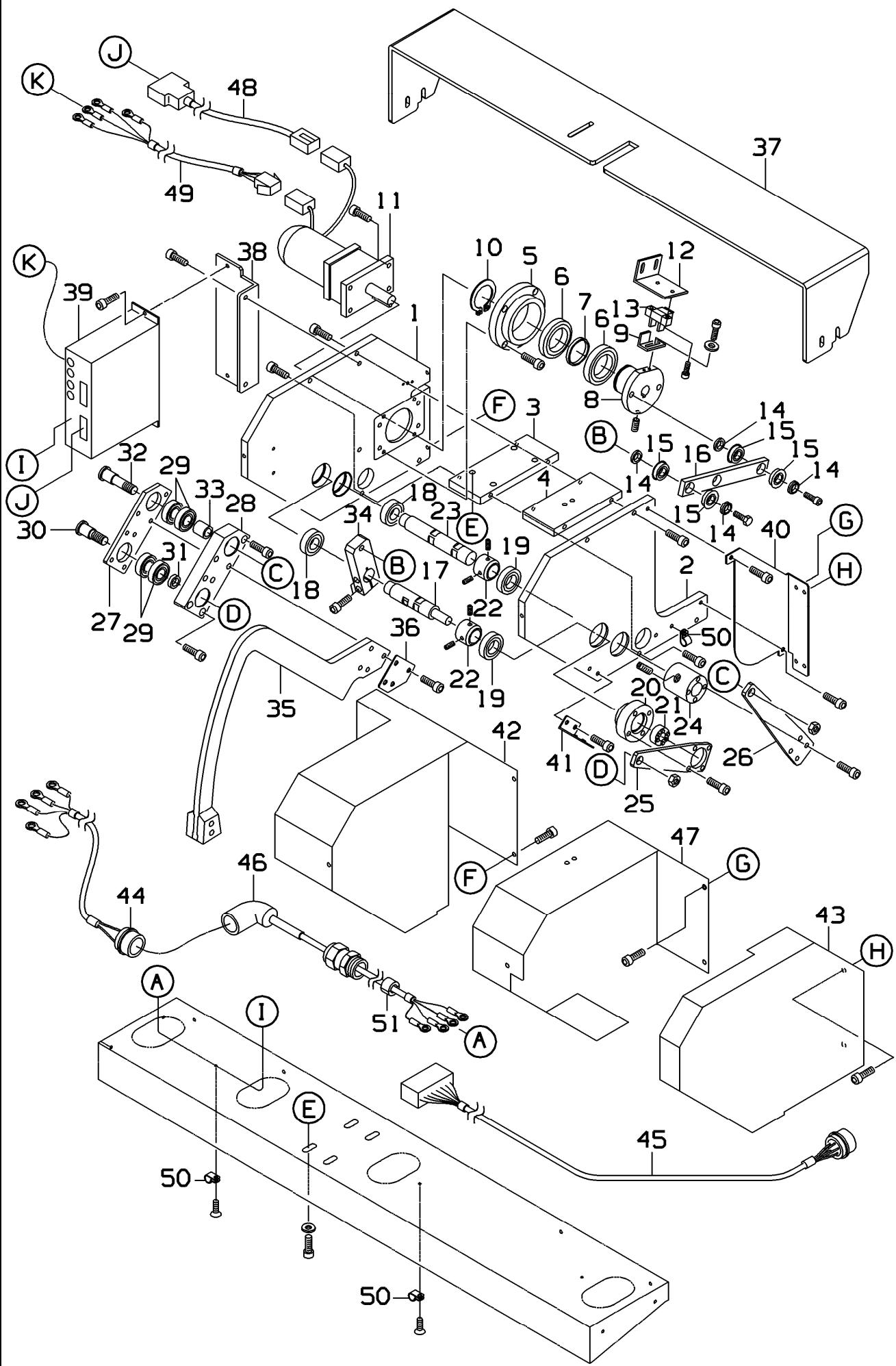
No. 4D-46964



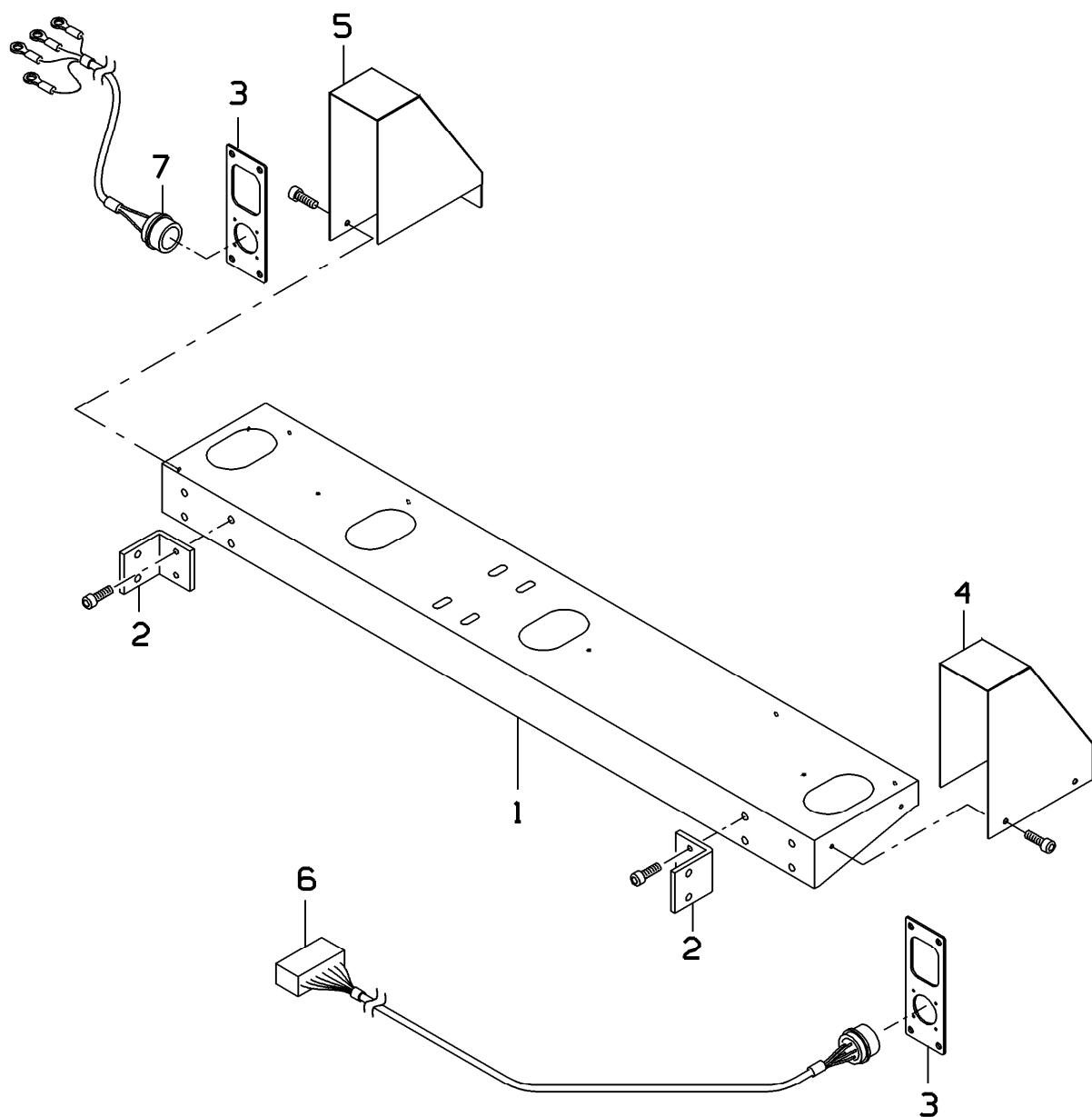
UNIT NAME	HIGH SPEED POKER UNIT::	DRAW NO.	4D-46964
-----------	-------------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	100-008-4188-00	HIGH SPEED POKER UNIT::	
1	000-092-9543-05	FRAME:POKER:3	1
2	000-092-4680-13	FRAME:POKER:1	1
3	000-092-9504-00	BLOCK A::	1
4	000-096-5001-08	BLOCK A::	1
5	000-075-7219-04	HOUSING::	1
6	000-075-7227-04	BEARING:RADIAL:DEEP GROOVE	2
7	000-075-7218-01	COLLAR::	1
8	000-092-9575-04	COUPLING::	1
9	000-075-7221-02	SLIT::	1
10	000-007-8927-02	C RING:FOR SHAFT:	1
11	000-113-1408-13	MOTOR:AC SERVO:	1
12	000-067-5284-14	L PLATE B:POKER:	1
13	000-012-8583-08	PHOTO INTERRUPTOR:TRANS:	1
14	000-067-5281-04	COLLAR:SPACER:	4
15	000-005-0811-01	BEARING:RADIAL:	4
16	000-092-9517-08	BLOCK B::	1
17	000-096-9140-07	SHAFT:POKER:	1
18	000-000-3644-00	BEARING:RADIAL:DEEP GROOVE	2
19	000-029-6782-05	BEARING:RADIAL:DEEP GROOVE	2
20	000-096-9141-01	HOUSING:POKER:	1
21	000-043-5314-06	COUPLING:MECHANICAL LOCK:	1
22	000-092-9520-00	COLLAR:SPACER:	2
23	000-092-9509-08	SHAFT:POKER:DRIVEN	1
24	000-092-9513-03	BOSS:POKER:	1
25	000-097-2025-03	LEVER:POKER:1	1
26	000-092-9521-03	LEVER:POKER:DRIVEN	1
27	000-092-9556-12	PLATE A::	1
28	000-092-9511-15	HOUSING::	1
29	000-059-4999-06	BEARING:RADIAL:ANGULAR	2
30	000-066-0100-08	STEP SCREW:POKER:	1
31	000-052-6057-13	COLLAR::	1
32	000-092-9512-00	STEP SCREW:POKER:2	1
33	000-092-9508-04	COLLAR::	1
34	000-092-9519-05	BLOCK B::	1
35	000-092-9510-11	ARM:POKER:	1

No. 4D-46964

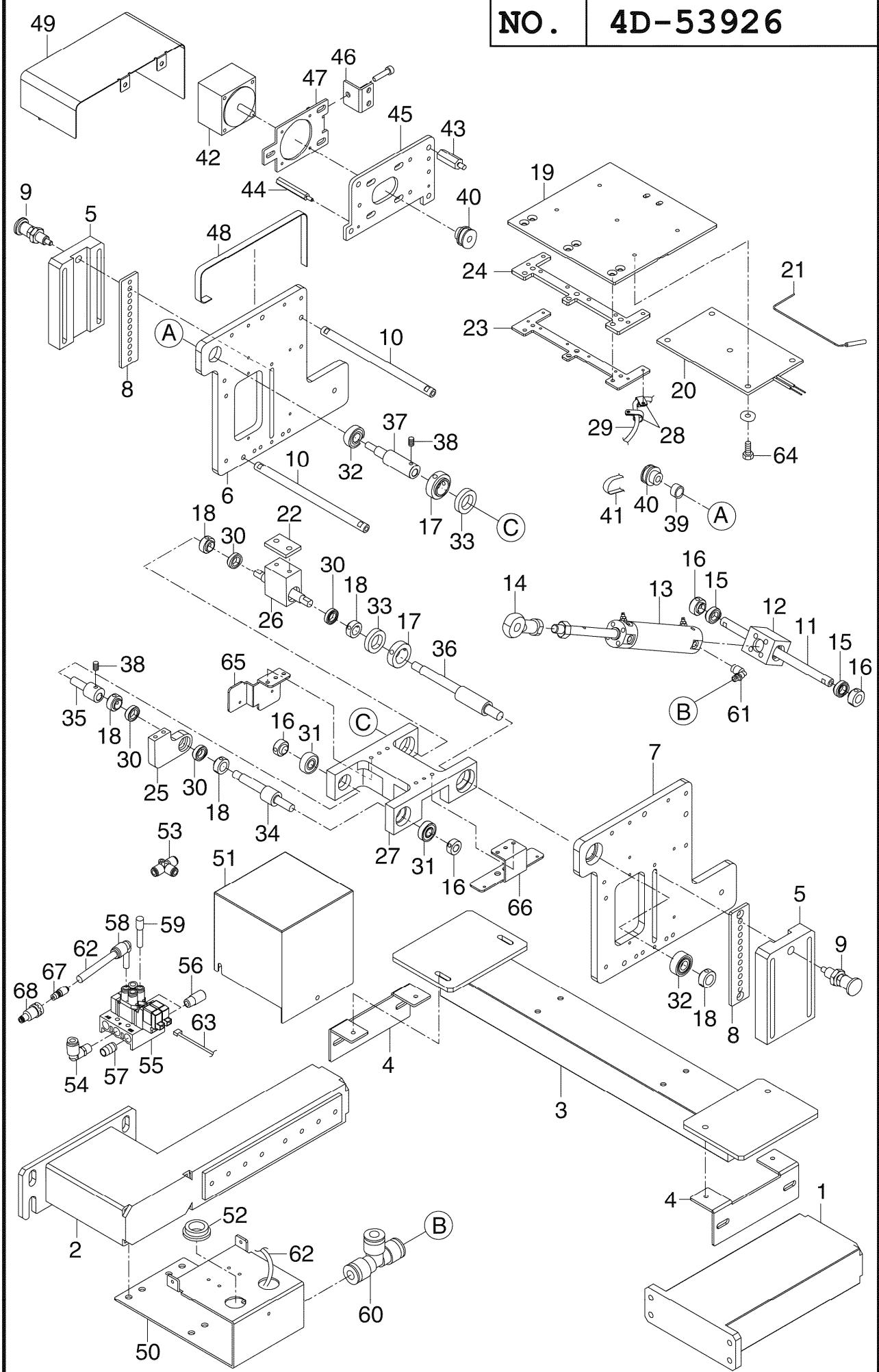


UNIT NAME	HIGH SPEED POKER UNIT::	DRAW NO.	4D-46964
-----------	-------------------------	----------	----------



UNIT NAME	POKER BASE UNIT::	DRAW NO.	4D-50350
-----------	-------------------	----------	----------

NO. 4D-53926

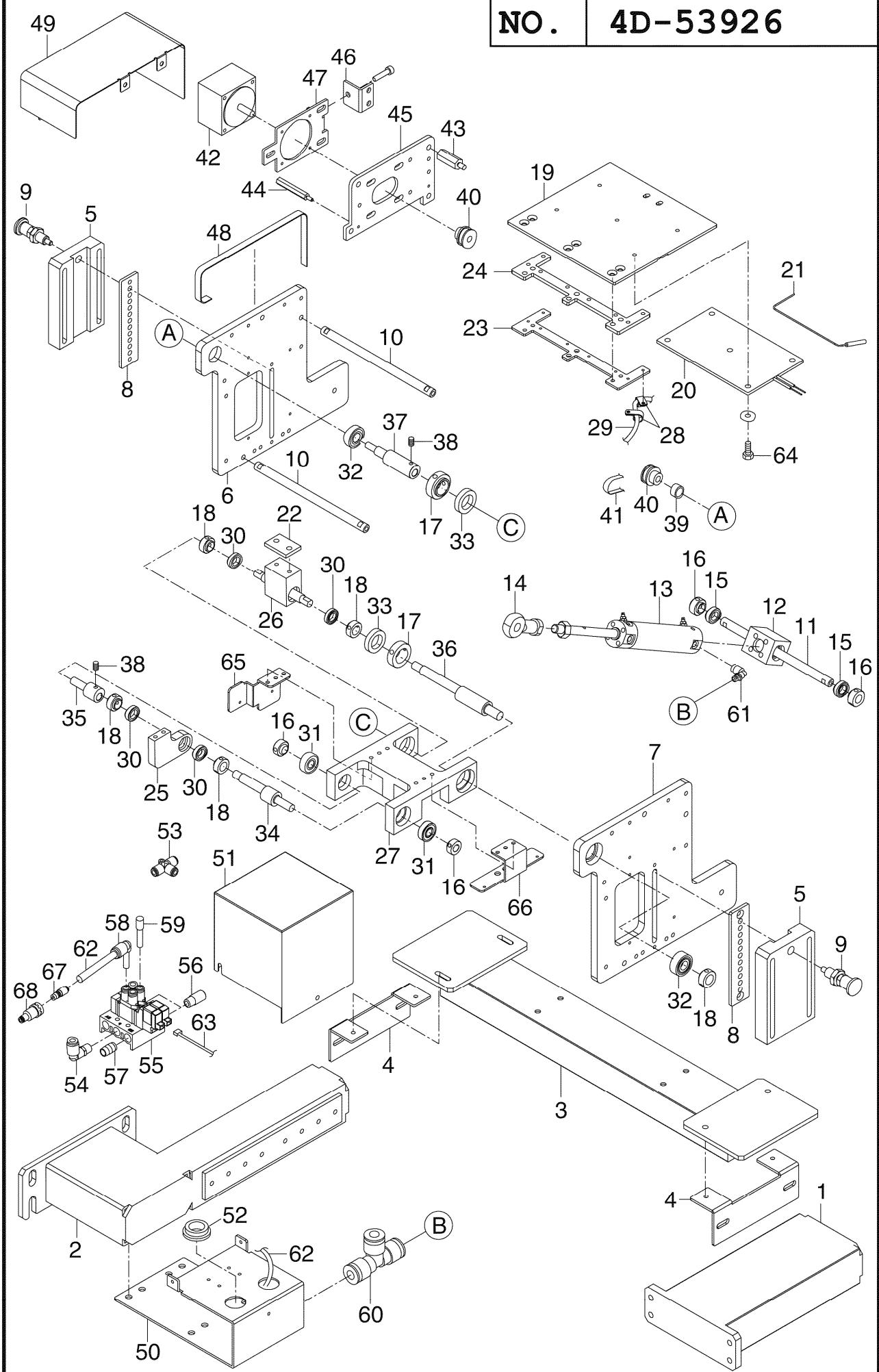


Scale 1:X

UNIT NAME	BOTTOM FOLDING UNIT::	DRAW NO.	4D-53926
-----------	-----------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-145-0920-21	BOTTOM FOLDING UNIT::	
1	000-130-5927-01	FRAME:BOTTOM FOLDING UNIT:	1
2	000-130-5930-03	FRAME:BOTTOM FOLDING UNIT:	1
3	000-131-0541-16	BASE:WITHOUT FOLDING UNIT:	1
4	000-130-4364-01	BRACKET:FRAME:	2
5	000-130-4365-05	BLOCK A:BOTTOM FOLDING UNIT:	2
6	000-137-5416-06	FRAME:BOTTOM FOLDING:	1
7	000-137-5417-00	FRAME:BOTTOM FOLDING:	1
8	000-131-4277-08	PLATE B:GUIDE:	2
9	000-129-7659-07	PLANGER:INDEX:	2
10	000-126-1131-04	SHAFT:HEATER:	2
11	000-137-5235-09	SHAFT:HEATER:	1
12	000-126-1135-09	BLOCK B:CYLINDER:	1
13	000-126-1134-05	PNEUMATIC CYLINDER::	1
14	000-030-5426-09	ROD END:TYPE I:F	1
15	000-003-6982-01	BEARING:RADIAL:DEEP GROOVE	2
16	000-126-1136-02	COLLAR A::	4
17	000-131-0542-01	COLLAR A::	2
18	000-123-3697-01	COLLAR A::	5
19	000-131-5161-31	PLATE B:BOTTOM FOLDING:	1
20	000-131-0530-15	HEATER:PLATE:	1
21	000-131-0543-22	SENSOR::	1
22	000-131-0545-01	PLATE A:INSULATOR:	1
23	000-135-8525-05	PLATE B::	1
24	000-135-8733-03	PLATE B:INSULATOR:	1
25	000-131-0531-28	SUPPORTER:BOTTOM FOLDING:	1
26	000-131-5160-19	HOUSING:BOTTOM FOLDING:	1
27	000-131-5113-13	SUPPORTER:HEATER:	1
28	000-103-0021-04	ACCESSORY:CLAMP:HEATPROOF	5
29	000-135-8741-03	TUBE:SILICONE:	4
30	000-039-4195-01	BEARING:RADIAL:DEEP GROOVE	4
31	000-000-3635-06	BEARING:RADIAL:DEEP GROOVE	2
32	000-000-8800-02	BEARING:RADIAL:DEEP GROOVE	2
33	000-085-8055-03	BEARING:RADIAL:DEEP GROOVE	2
34	000-135-6824-01	SHAFT:STEP:	1
35	000-131-5165-17	SHAFT:STEP:	1

NO. 4D-53926

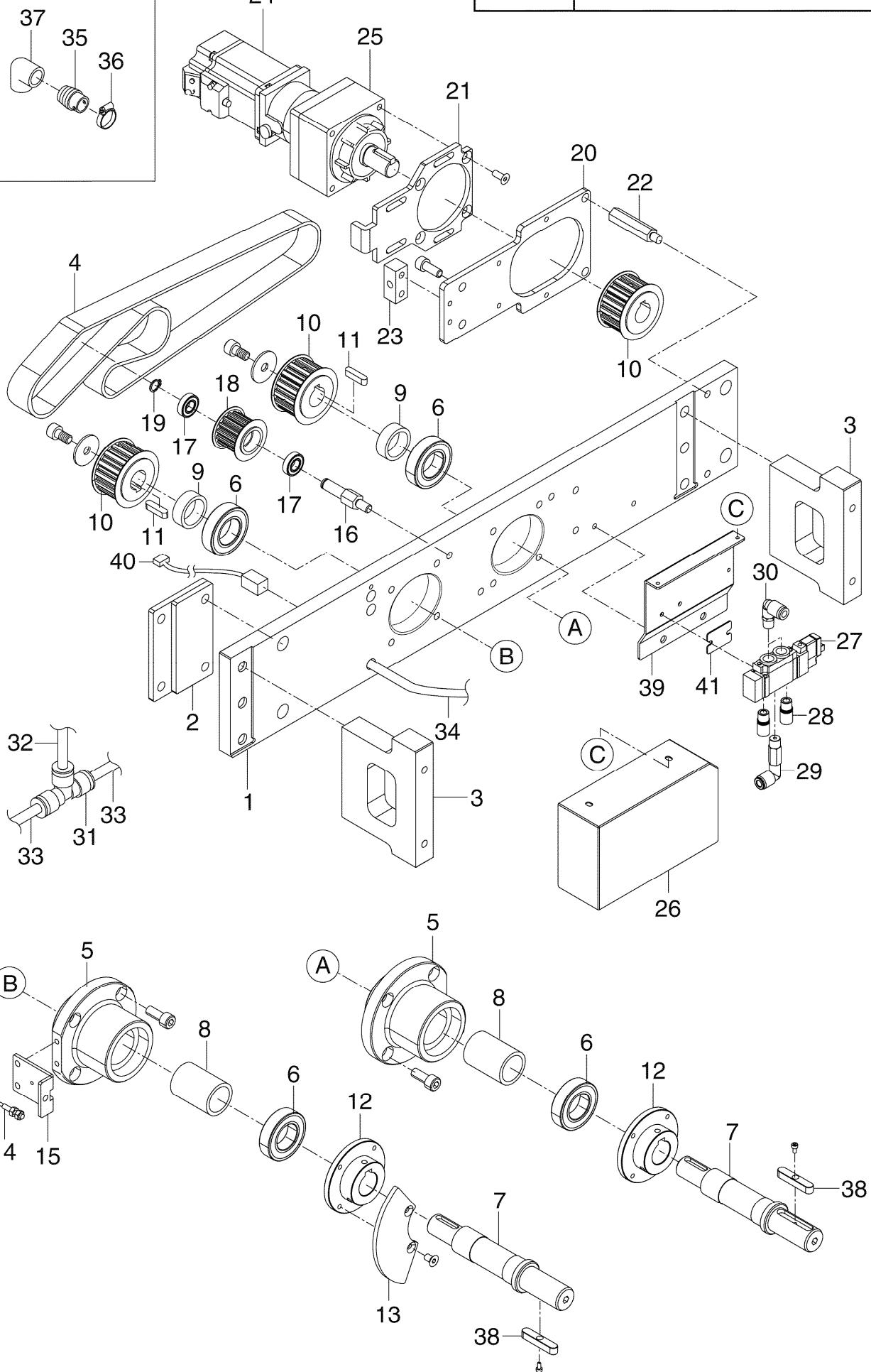


Scale 1:X

UNIT NAME	BOTTOM FOLDING UNIT::	DRAW NO.	4D-53926
-----------	-----------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-145-0920-21	BOTTOM FOLDING UNIT::	
36	000-135-6825-05	SHAFT:STEP:	1
37	000-131-5166-01	SHAFT:STEP:	1
38	000-075-2981-01	SET SCREW:HEX SOCKET:CUP POINT	4
39	000-033-3246-00	COLLAR::	1
40	000-116-9681-06	TIMING PULLEY:S2M:BF	2
41	000-131-4281-03	TIMING BELT:S2M:	1
42	000-133-1096-04	MOTOR:SPEED CONTROLLER:	1
43	000-131-5112-10	THREADED ROD:HEX:MF	4
44	000-131-7621-07	THREADED ROD:HEX:MF	2
45	000-131-5111-07	BASE:MOTOR:2	1
46	000-131-5109-09	BRACKET::	1
47	000-131-5110-03	BASE:MOTOR:1	1
48	000-131-7620-03	GASKET::	1
49	000-131-5108-14	COVER:BOTTOM FOLDING UNIT:	1
50	000-131-4274-16	BRACKET:SOLENOID VALVE:BOTTOM	1
51	000-131-4276-04	COVER:SOLENOID VALVE:	1
52	000-000-3972-01	GROMMET:W/DIAPHRAGM:	2
53	000-068-7133-10	JOINT:3WAY UNION:	1
54	000-067-3404-17	JOINT:ELBOW UNION:	1
55	000-076-5120-00	SOLENOID VALVE::MANIFOLD	1
56	000-146-0774-03	SILENCER::	2
57	000-004-6379-02	JOINT:PLUG:HEX SOCKET	3
58	000-077-5888-12	JOINT:ELBOW:	2
59	000-079-8107-03	JOINT:PLUG:	3
60	000-138-2500-02	SPEED CONTROLLER::STRAIGHT	2
61	000-092-9949-12	JOINT:ELBOW UNION:	2
62	000-107-4904-06	TUBE:POLYURETHANE:	4
63	000-131-6298-03	HARNESS:C2:SOLENOID VALVE	1
64	000-110-7477-01	HEX SOCKET BOLT::	5
65	000-137-5414-09	BRACKET:WIRING:	1
66	000-140-1381-03	COVER:WIRING:	1
67	000-139-9647-09	JOINT:COUPLER:PLUG	2
68	000-139-9648-02	JOINT:COUPLER:SOCKET	2

NO.

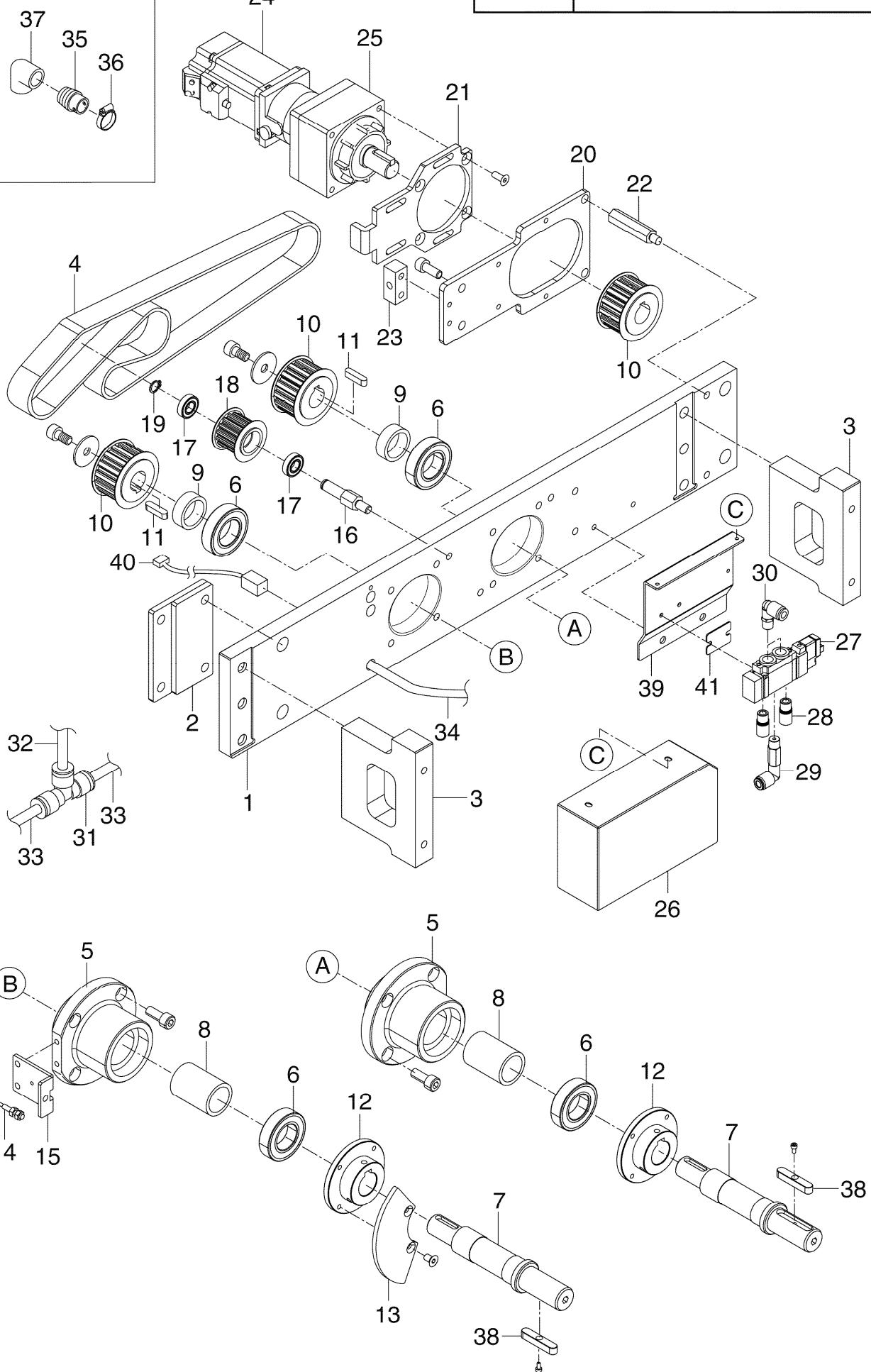
**4D-53927**

Scale 1:X

UNIT NAME	GUSSET UNIT:DRIVE:	DRAW NO.	4D-53927
-----------	--------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-139-9638-16	GUSSET UNIT:DRIVE:	
1	000-131-4306-21	BASE:GUSSET:	1
2	000-124-1485-08	SPACER:BASE:	1
3	000-131-2542-08	FRAME:SIDE:	2
4	000-120-9953-04	TIMING BELT:S5M:	1
5	000-131-2544-06	HOUSING:BEARING:	2
6	000-003-1744-03	BEARING:RADIAL:DEEP GROOVE	4
7	100-002-5928-01	SHAFT::	2
8	100-009-5184-00	COLLAR::SPACER	2
9	000-124-1492-04	COLLAR:SPACER:	2
10	000-094-6920-00	TIMING PULLEY:S5M:A	3
11	000-069-9259-01	KEY:PARALLEL:BOTH ENDS ROUND	2
12	100-002-5929-00	SET COLLAR::	2
13	100-002-5944-00	PLATE B:SENSOR:	1
14	000-124-9129-02	SENSOR AS::	1
15	000-131-2546-11	BRACKET:SENSOR:	1
16	000-094-6918-11	DISTANCE:M:	2
17	000-000-3659-05	BEARING:RADIAL:DEEP GROOVE	4
18	000-091-8490-10	TIMING PULLEY:S5M:A	2
19	000-000-0453-04	C RING:FOR SHAFT:	2
20	000-124-1484-04	BASE:MOTOR:	1
21	000-124-7580-01	BASE:MOTOR:	1
22	000-124-7615-07	THREADED ROD:HEX:MF	4
23	000-091-8308-05	BLOCK A:TENSION:	1
24	000-139-7652-01	MOTOR:AC SERVO:	1
25	000-139-7646-08	GEAR HEAD::	1
26	000-132-1637-01	COVER:SOLENOID VALVE:	1
27	000-055-7044-01	SOLENOID VALVE:VALVE:	1
28	000-004-8913-09	SILENCER::	2
29	000-077-5890-11	JOINT:LONG ELBOW:	1
30	000-067-3404-17	JOINT:ELBOW UNION:	2
31	000-068-7133-10	JOINT:3WAY UNION:	1
32	000-086-9901-05	TUBE:POLYURETHANE:	1
33	000-107-4901-05	TUBE:POLYURETHANE:	1
34	000-125-6088-08	TUBE:POLYURETHANE:	0.5
35	000-050-6716-01	JOINT:HOSE:	4

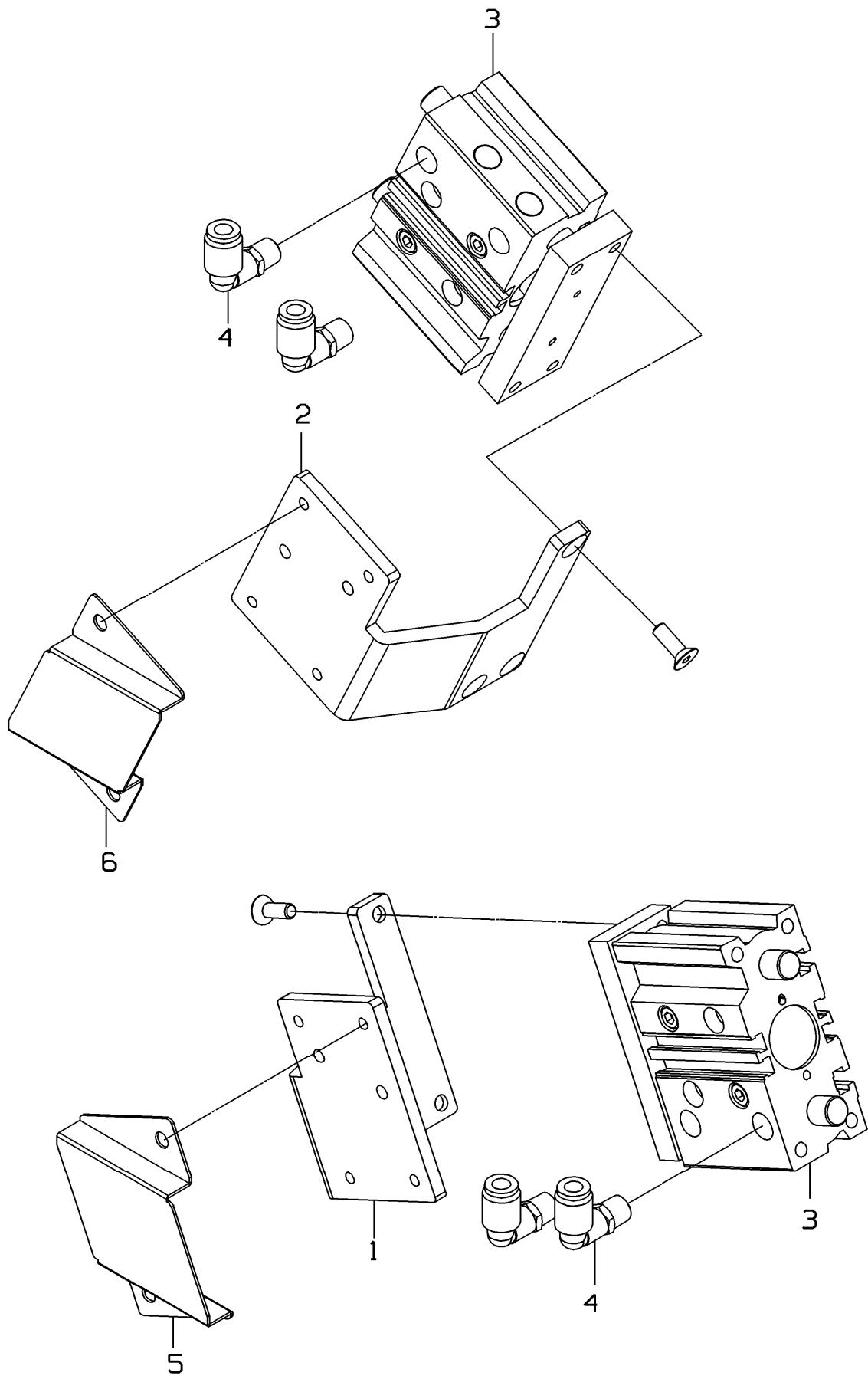
NO. 4D-53927



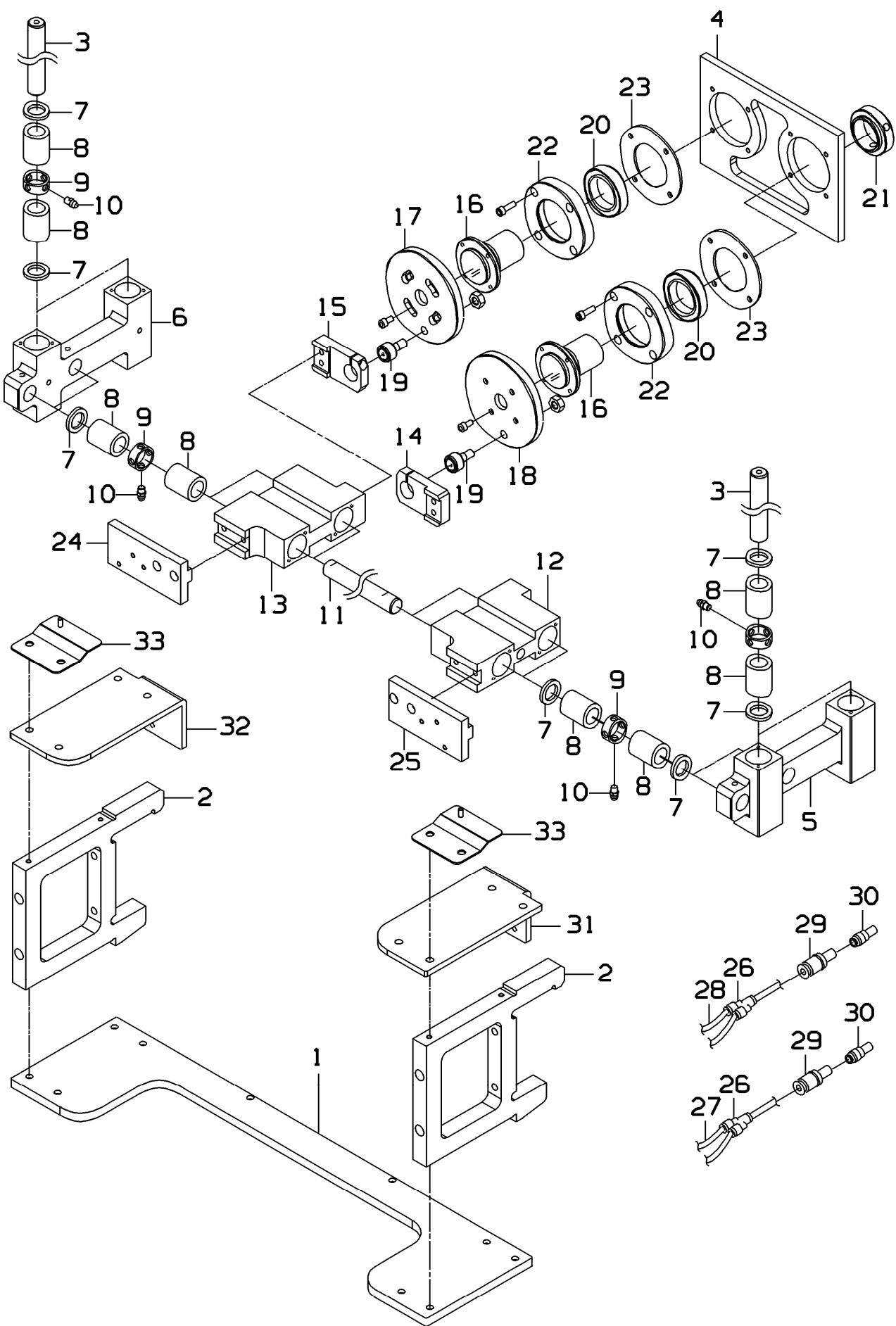
Scale 1:X



No. 4D-42877

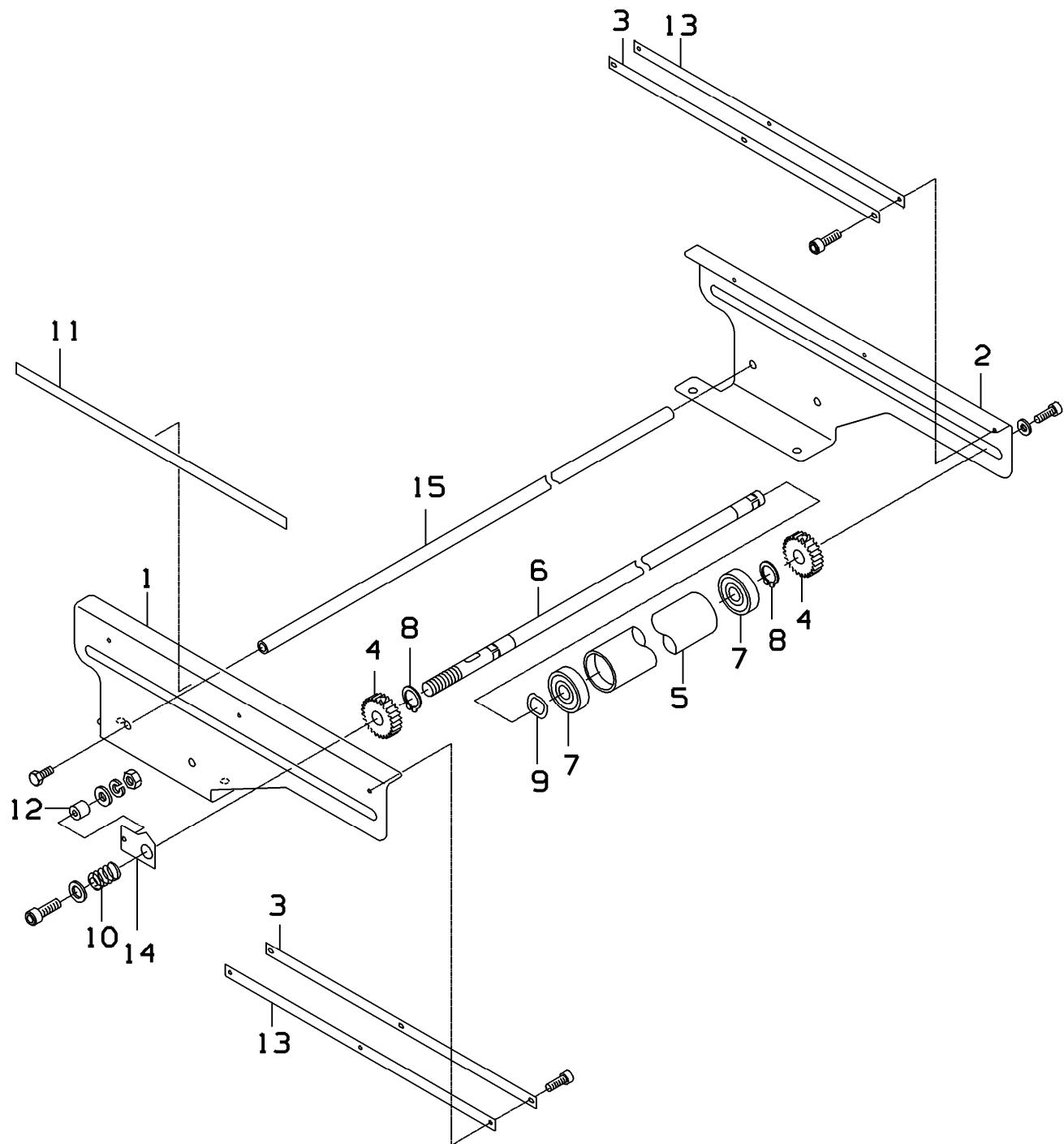


UNIT NAME	INSERT UNIT:DRIVE:	DRAW NO.	4D-42877
-----------	--------------------	----------	----------



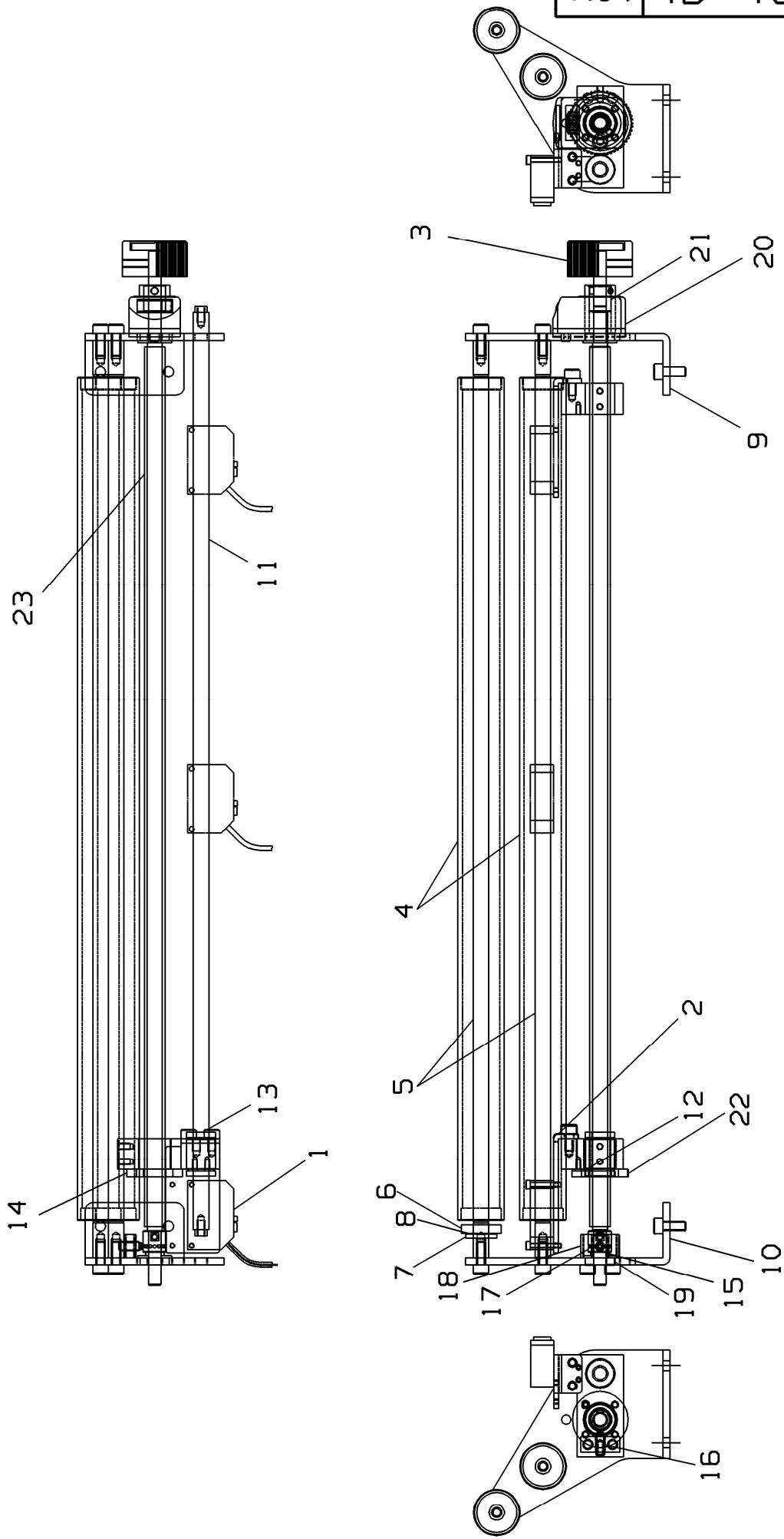
UNIT NAME	GUSSET UNIT:FRONT:	DRAW NO.	4D-49867
-----------	--------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-139-9643-14	GUSSET UNIT:FRONT:	
1	000-131-2541-04	FRAME:GUSSET:	1
2	000-131-5382-00	BLOCK B:GUSSET:	2
3	000-124-1488-09	SHAFT:SLIDER:	4
4	000-131-4081-14	FRAME:GUSSET:	1
5	000-124-1497-02	HOLDER:GUSSET:2	1
6	000-124-1498-06	HOLDER:GUSSET:2	1
7	000-075-3204-04	SCRAPER:BALL BUSH:	16
8	000-123-3272-01	BEARING:BALL BUSH:	16
9	000-123-3273-05	COLLAR:GREASE:	8
10	000-057-9445-03	GREASE NIPPLE::	8
11	000-124-1489-02	SHAFT:SLIDER:	2
12	000-128-8425-09	HOLDER:GUSSET:1	1
13	000-128-8426-02	HOLDER:GUSSET:1	1
14	000-123-3283-02	HOLDER:GUSSET:CONNECTION	1
15	000-123-3284-06	HOLDER:GUSSET:CONNECTION	1
16	000-131-9188-08	HOLDER:CRANK:	2
17	000-131-2548-19	CRANK::	1
18	100-002-5846-00	CRANK::	1
19	000-123-3271-08	CAM FOLLOWER:CYLINDER:	2
20	000-036-3210-08	BEARING:RADIAL:DEEP GROOVE	2
21	000-131-2550-08	SET COLLAR::	2
22	000-131-2549-03	HOUSING:BEARING:	2
23	000-131-4082-09	PLATE B:HOLD:	2
24	000-135-3853-09	BLOCK B:SPACER:	1
25	000-135-3854-02	BLOCK B:SPACER:	1
26	000-076-9383-16	JOINT:Y UNION:	2
27	000-086-9901-05	TUBE:POLYURETHANE:	1
28	000-107-4901-05	TUBE:POLYURETHANE:	1
29	000-139-9647-09	JOINT:COUPLER:PLUG	2
30	000-139-9648-02	JOINT:COUPLER:SOCKET	2
31	000-124-7578-02	FRAME:GUSSET:S	1
32	000-124-7577-09	FRAME:GUSSET:S	1
33	000-140-6508-07	BRACKET:CLAMP:	2



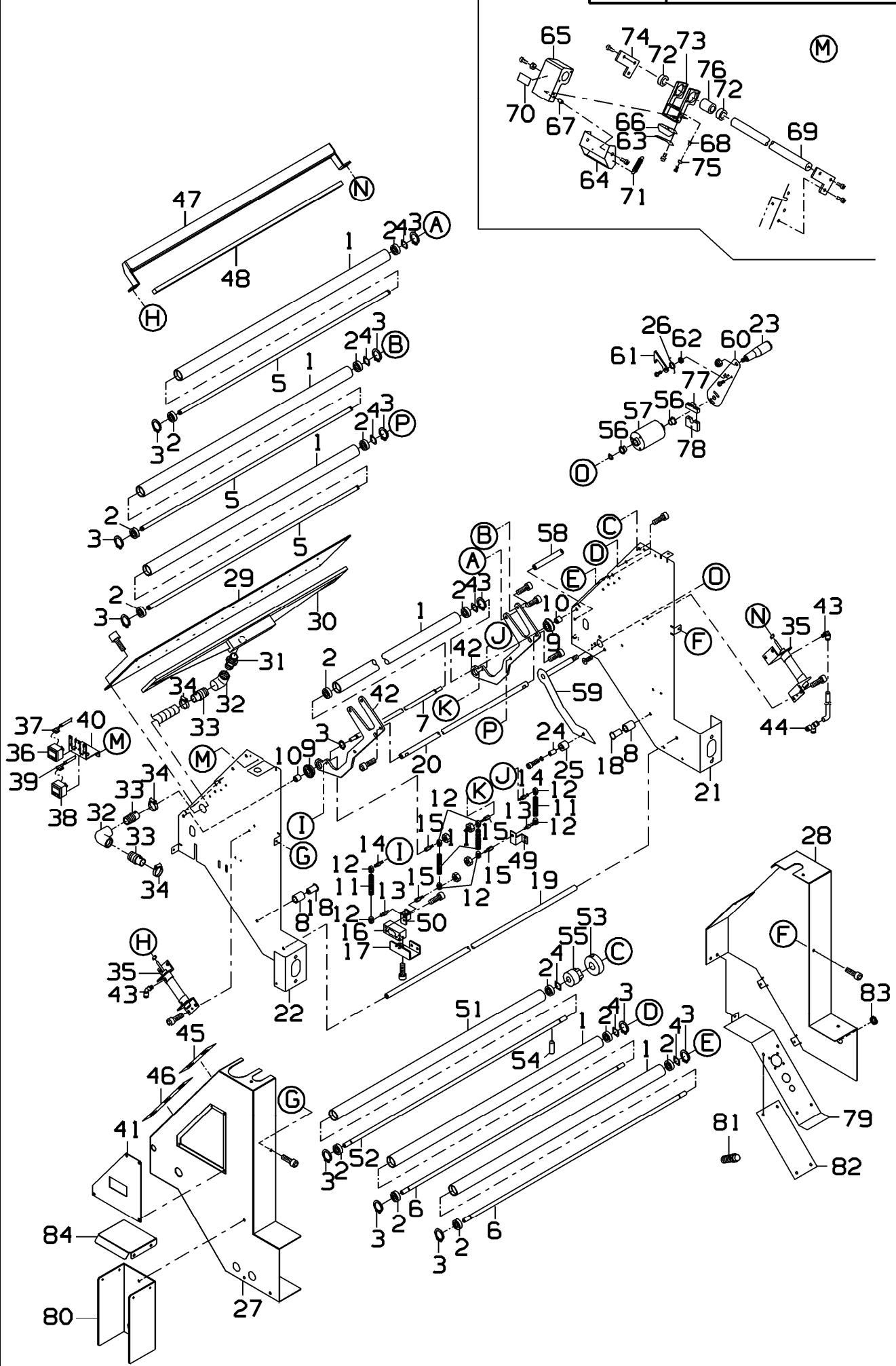


No. 4D-40269



UNIT NAME	REG MARK UNIT::	DRAW NO.	4D-40269
-----------	-----------------	----------	----------

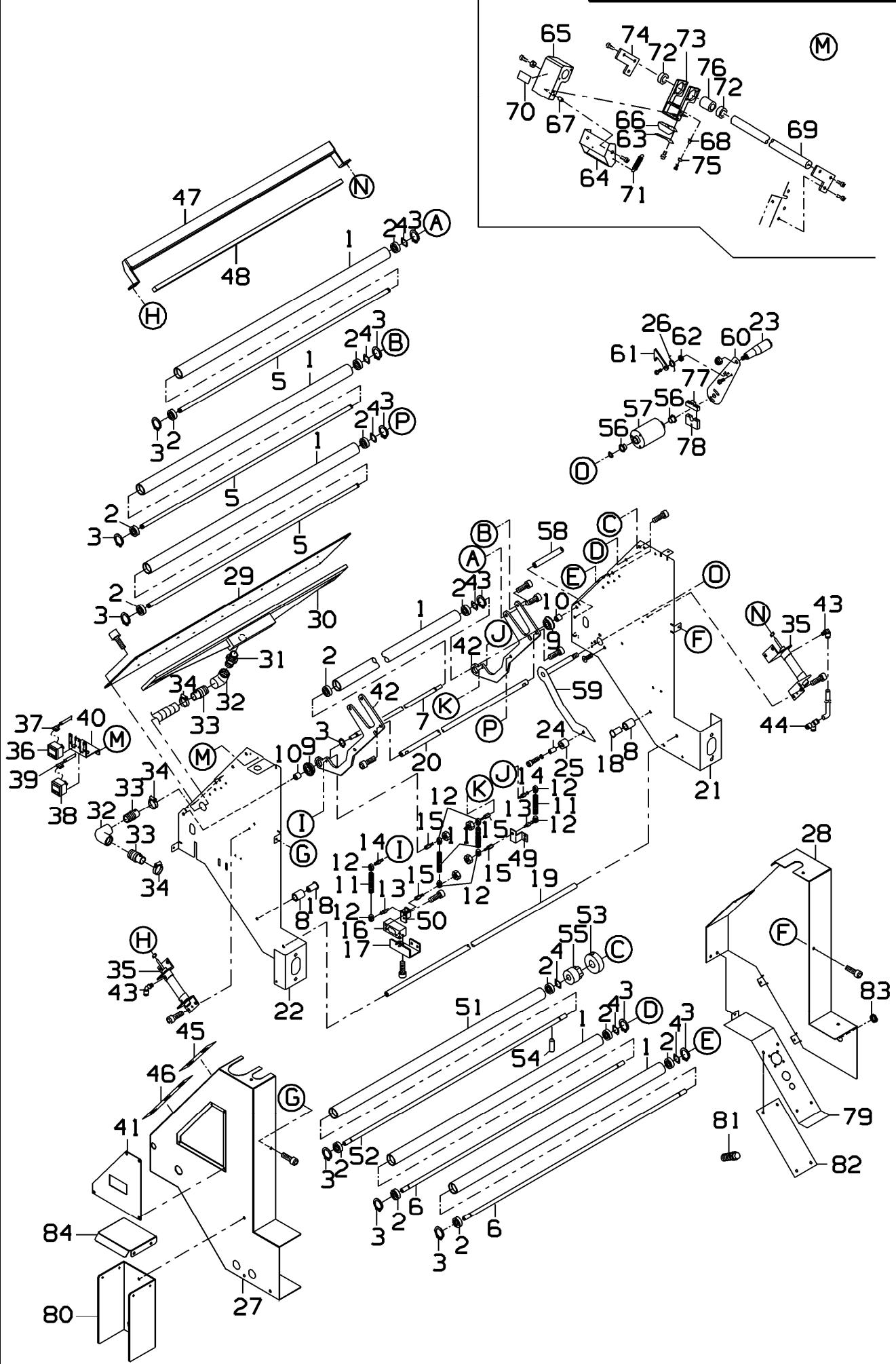
No. 4D-46052



UNIT NAME	FILM CARRIER UNIT::	DRAW NO.	4D-46052
-----------	---------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-147-6342-08	FILM CARRIER UNIT::	
1	000-101-1355-07	ROLLER::	6
2	000-051-4933-02	BEARING:RADIAL:DEEP GROOVE	14
3	000-008-3343-07	C RING:FOR SHAFT:	13
4	000-051-4913-08	WAVE WASHER::	7
5	000-065-8583-05	SHAFT:ROLLER:	3
6	000-091-8446-06	SHAFT:ROLLER:	2
7	000-091-8433-08	SHAFT:ROLLER:	1
8	000-095-0095-02	DAMPER::	2
9	000-018-9939-07	BEARING:RADIAL:	2
10	000-091-8434-01	COLLAR:STEP:	2
11	000-095-0165-00	SPRING:COIL:TENSION	4
12	000-052-3359-08	HANGER:SPRING:	8
13	000-095-0096-06	PIN:STEP:	2
14	000-095-0097-00	PIN:STEP:	2
15	000-095-0098-12	PIN:STEP:	4
16	000-114-8095-14	LC:DLC-80L:ATLAS	1
17	000-100-4680-01	BRACKET:ROAD CELL:	1
18	000-117-7311-08	STEP SCREW::	2
19	000-112-3254-08	DISTANCE::	1
20	000-091-8438-15	SHAFT::	2
21	000-121-3531-11	FRAME:DANCER:1	1
22	000-137-3800-06	FRAME:DANCER:2	1
23	000-103-0222-06	GRIP::	1
24	000-056-9101-05	COLLAR::	1
25	000-007-9763-02	COLLAR::	1
26	000-103-0068-09	SPRING:COIL:TWISTED	1
27	000-133-3943-15	COVER:DANCER:1	1
28	000-137-1989-18	COVER:DANCER:2	1
29	000-095-0099-07	PLATE B:SPLICING:	1
30	000-052-6138-11	CASE:SPLICING:	1
31	000-053-7234-08	JOINT:NIPPLE HEXA:	1
32	000-004-6369-05	JOINT:ELBOW:	2
33	000-050-6715-07	JOINT:HOSE:	3
34	000-124-7306-06	HOSE BAND::	3
35	000-109-6373-02	PNEUMATIC CYLINDER::	2

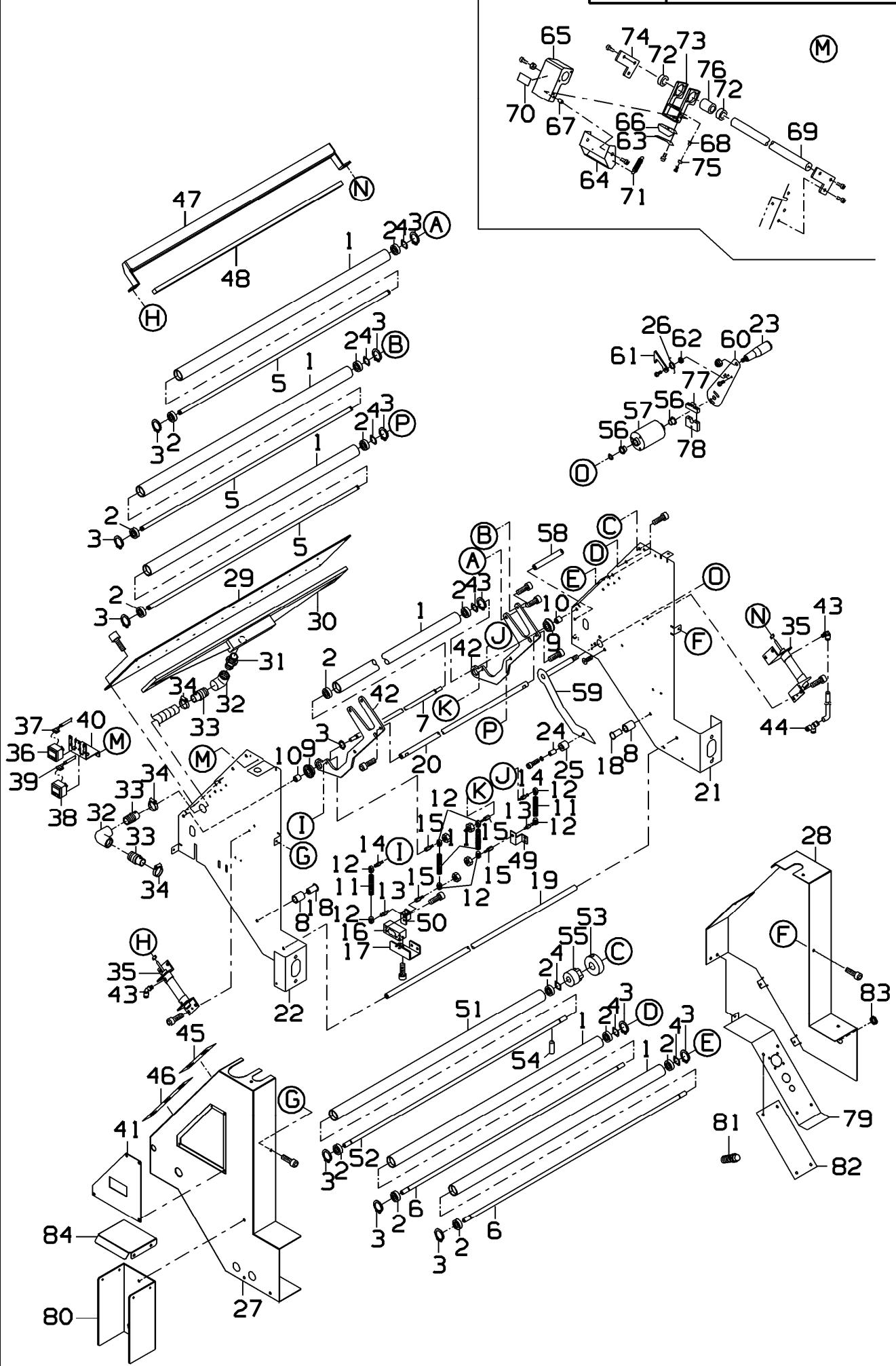
No. 4D-46052



UNIT NAME	FILM CARRIER UNIT::	DRAW NO.	4D-46052
-----------	---------------------	----------	----------

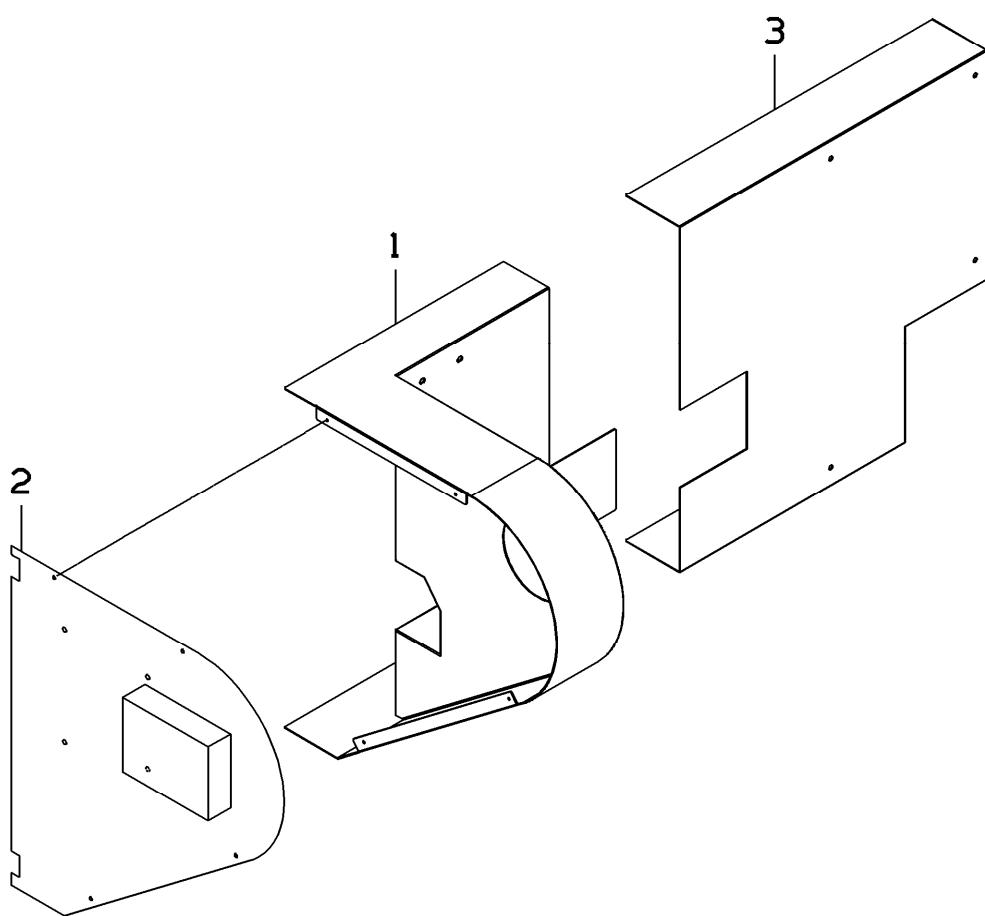
NO.	PART CODE	PART NAME	QUANTITY
●	000-147-6342-08	FILM CARRIER UNIT::	
36	000-135-8704-05	PRESSURE SWITCH:COMPRESS:	1
37	000-143-6364-00	HARNESS:C3:AIR SW	1
38	000-135-8709-03	SENSOR:PRESSURE:	1
39	000-138-4676-01	HARNESS:C2:AIR PRESSURE SW	1
40	000-133-3950-02	BRACKET:SENSOR:	1
41	000-137-1846-00	COVER:DANCER:3	1
42	000-095-0137-32	LINK:DANCER:2	2
43	000-067-3404-17	JOINT:ELBOW UNION:	2
44	000-068-7133-10	JOINT:3WAY UNION:	1
45	000-111-4456-00	NAME PLATE:OPERATION:	1
46	000-111-4457-03	NAME PLATE:OPERATION:	1
47	000-134-3203-10	BRACKET: FILM HOLDING:	1
48	000-117-3512-05	PAD::	1
49	100-010-4249-00	BRACKET:PIN:	1
50	000-095-3931-16	BRACKET:PIN:	1
51	000-107-2699-05	ROLLER::	1
52	000-097-6417-13	SHAFT:ROLLER:	1
53	000-057-9376-00	COLLAR A::	1
54	000-038-7140-00	SPRING PIN:WAVE SHAPE:	1
55	000-073-7899-02	MINI KEEPER::	1
56	000-026-3950-01	BUSH:DU:FLANGE	2
57	000-103-0226-10	BOSS:DANCER:	1
58	000-103-0209-07	THREADED ROD:ROUND:F	1
59	000-120-9585-25	LINK:DANCER:3	1
60	000-137-1966-03	LINK:DANCER:4	1
61	000-103-0066-20	PLATE B:LOCK:	1
62	000-103-0224-03	COLLAR:STEP:	1
63	000-077-2278-01	CUTTER:SPLICING:	1
64	000-095-7386-01	GUARD:CUTTER:	1
65	000-095-7382-16	COVER:CUTTER:1	1
66	000-073-7781-07	COVER:CUTTER:2	1
67	000-073-7776-08	COLLAR:STEP:	2
68	000-076-9500-06	COLLAR:STEP:	1
69	000-095-7100-03	SHAFT:SLIDER:	1
70	000-054-2119-20	SEAL:SIGNAL:JUNCTION	1

No. 4D-46052

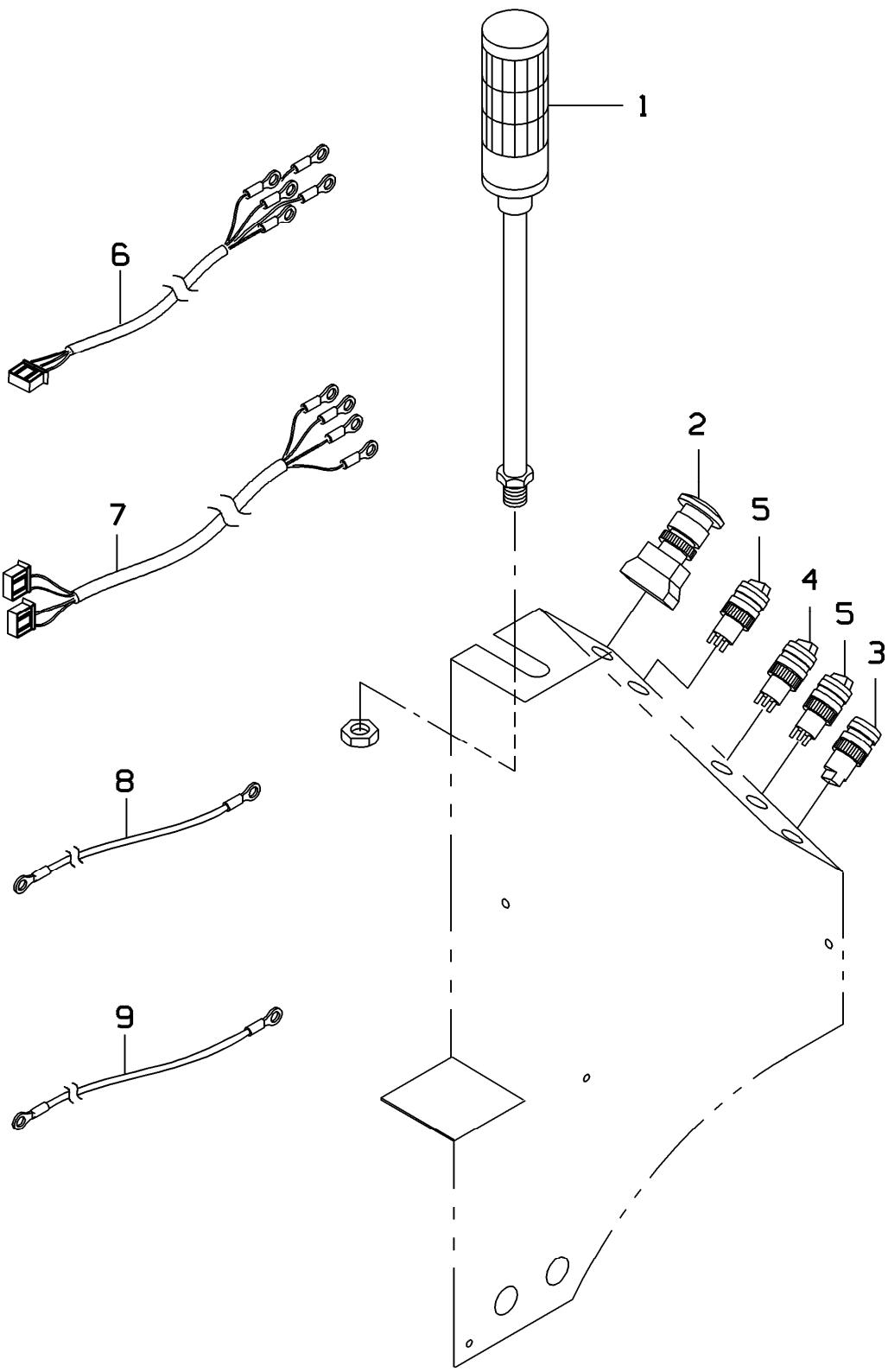


UNIT NAME	FILM CARRIER UNIT::	DRAW NO.	4D-46052
-----------	---------------------	----------	----------

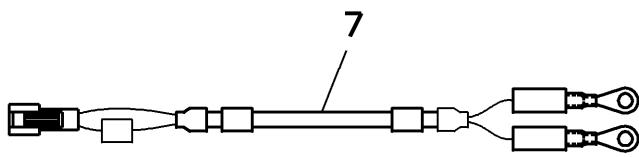
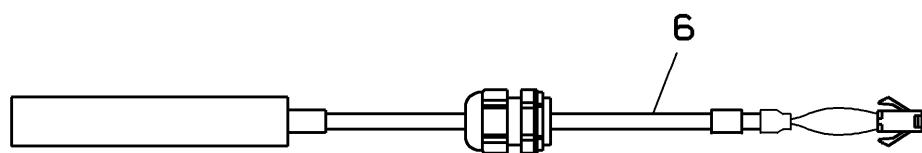
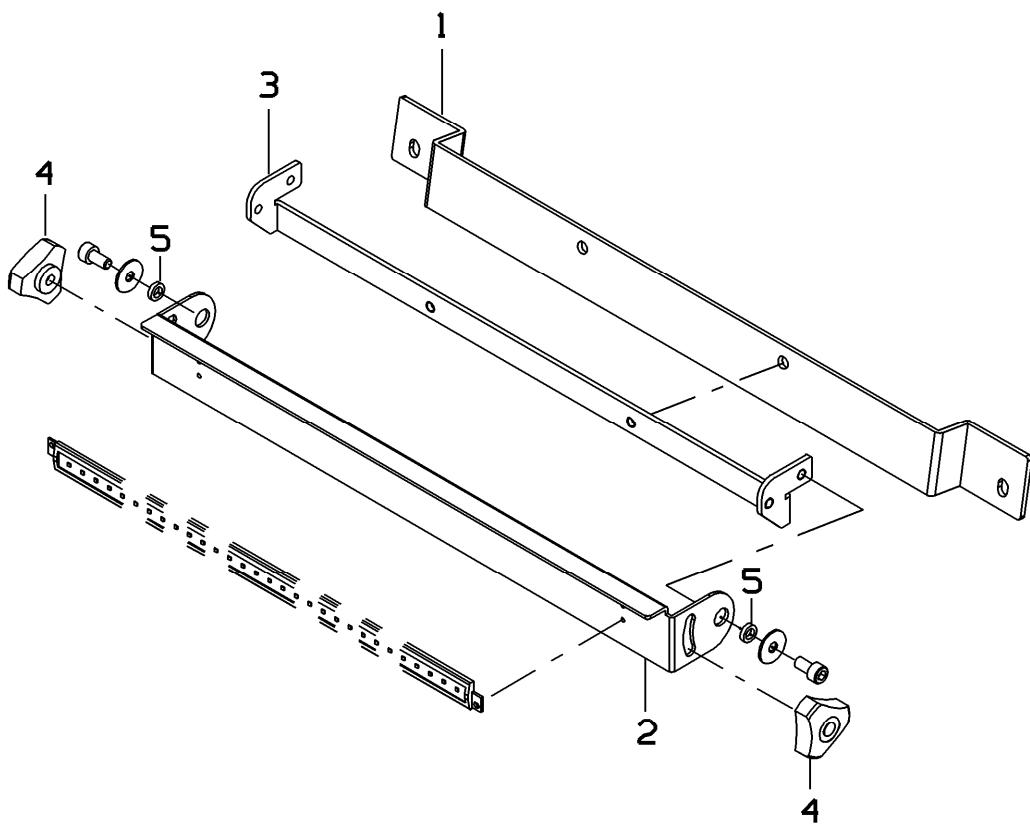
No. 4D-43304



UNIT NAME	COVER UNIT: AIR CHUCK:	DRAW NO.	4D-43304
-----------	------------------------	----------	----------

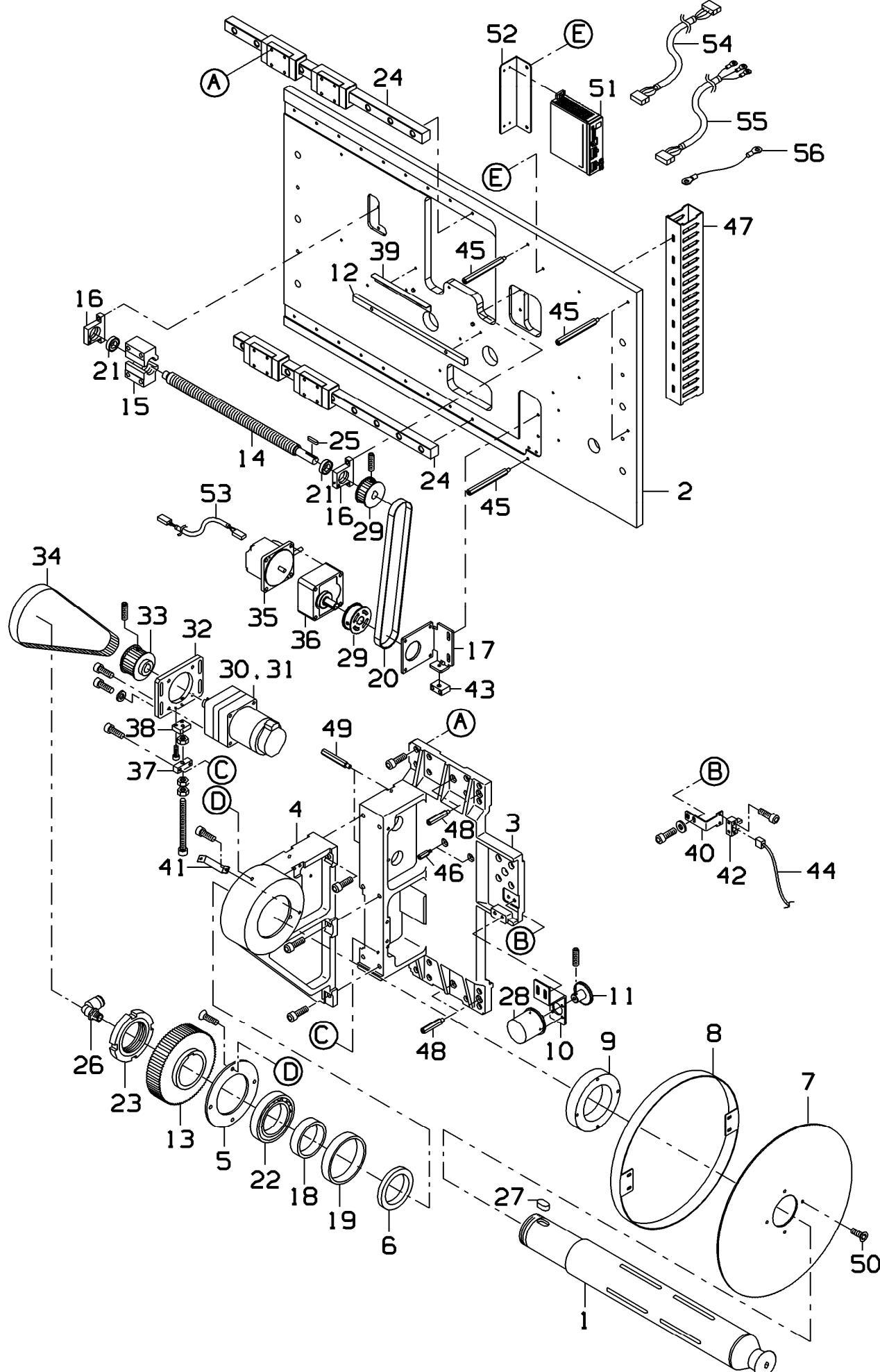


UNIT NAME	OPERATION UNIT:REAR:	DRAW NO.	4D-49187
-----------	----------------------	----------	----------



UNIT NAME	OPTION UNIT:LIGHT:REAR	DRAW NO.	4D-47870
-----------	------------------------	----------	----------

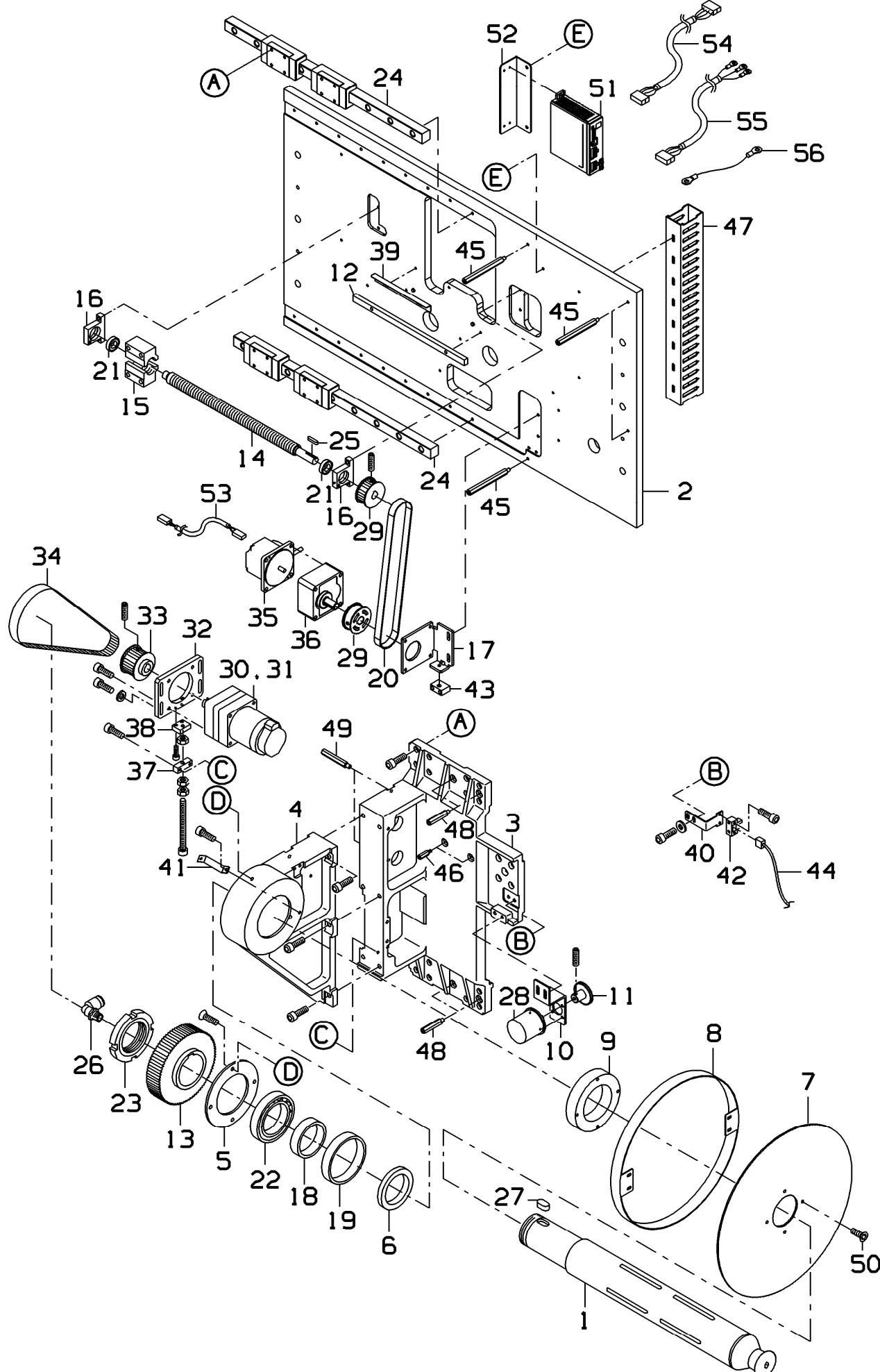
No. 4D-53762



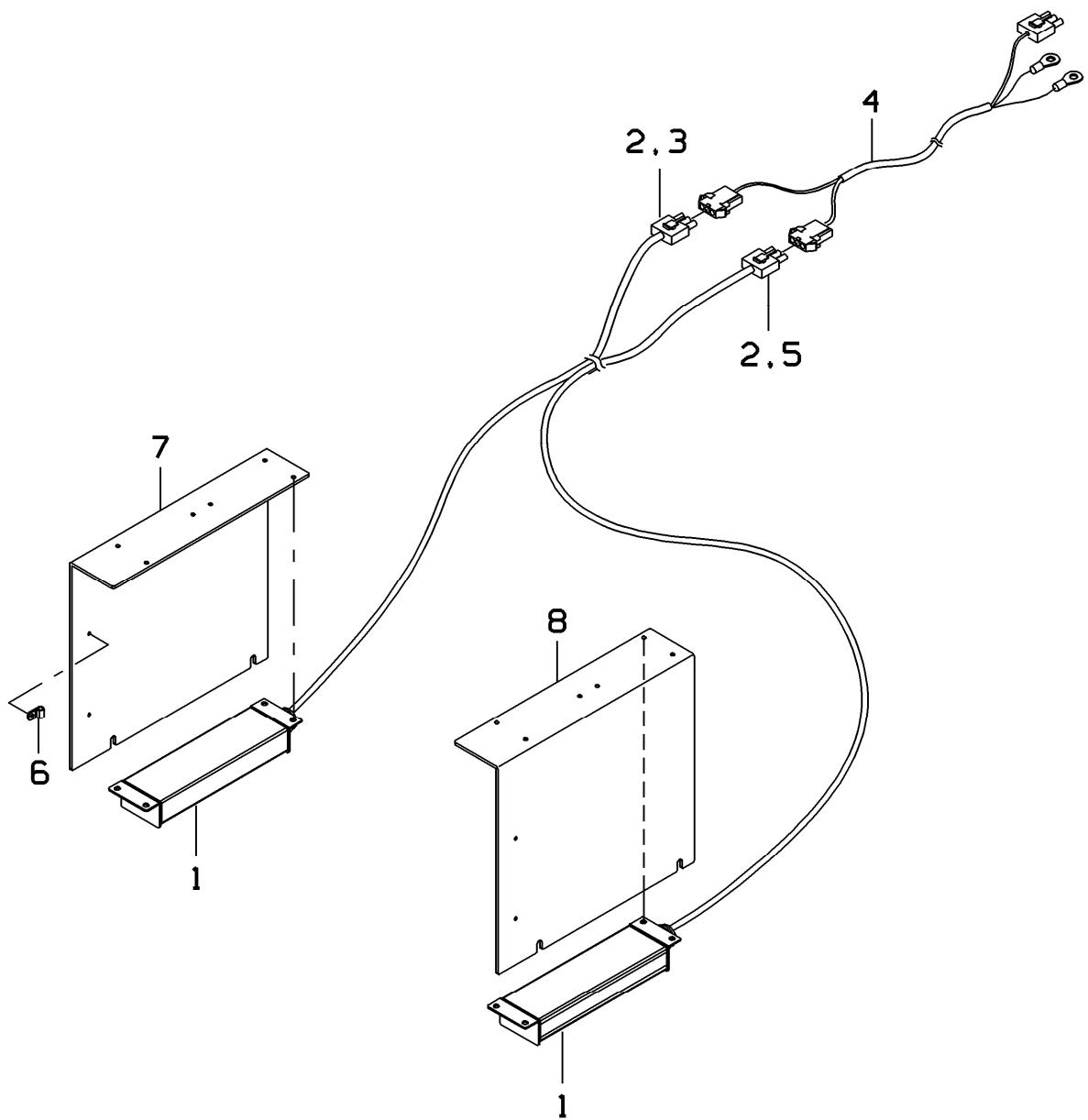
UNIT NAME	AIR CHUCK UNIT::	DRAW NO.	4D-53762
-----------	------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-133-3987-41	AIR CHUCK UNIT::	
1	000-102-0947-14	AIR SHAFT::	1
2	000-133-3994-17	BASE:TRACKING:	1
3	000-111-6948-11	BASE:AIR CHUCK:	1
4	000-094-2266-02	HOLDER:AIR CHUCK:	1
5	000-091-8368-09	PLATE B: HOLD:	1
6	000-120-2543-05	COLLAR::	1
7	000-137-5459-06	STOPPER:FILM:	1
8	000-137-5457-09	COVER:STOPPER:	1
9	000-137-5456-05	SPACER::	1
10	000-111-7102-02	BRACKET:ENCODER:	1
11	000-051-4738-11	GEAR:PINION:	1
12	000-094-9033-07	GEAR:RACK:	1
13	000-091-8401-18	TIMING PULLEY:P8M:B	1
14	000-133-3979-00	SHAFT:SCREW:	1
15	000-095-7237-00	NUT::COMPLEX	1
16	000-094-6638-45	BLOCK B:HOUSING:	2
17	000-133-3982-11	BRACKET:MOTOR:TRACKING	1
18	000-092-2083-03	COLLAR::	1
19	000-092-2084-07	COLLAR::	1
20	000-074-7662-04	TIMING BELT:S5M:	1
21	000-030-6365-09	BEARING:RADIAL:DEEP GROOVE	2
22	000-094-9056-02	BEARING:RADIAL:ANGULAR	1
23	000-092-2222-04	NUT:BEARING:	1
24	000-094-9057-06	BEARING UNIT:LINEAR GUIDE:	2
25	000-056-2297-06	KEY:PARALLEL:ONE END ROUND	1
26	000-051-9126-01	JOINT:ELBOW UNION:	1
27	000-077-2224-19	KEY:PARALLEL:BOTH ENDS ROUND	1
28	000-095-7016-03	ENCODER AS::	1
29	000-073-7226-06	TIMING PULLEY:S5M:AF	2
30	000-133-1040-06	MOTOR:AC SERVO:	1
31	100-015-5781-00	GEAR HEAD::	1
32	000-110-1082-11	BRACKET:MOTOR:M4	1
33	000-098-4928-01	TIMING PULLEY:P8M:AF	1
34	000-098-4933-00	TIMING BELT:P8M:	1
35	100-015-5451-00	MOTOR:DC BRUSHLESS:	1

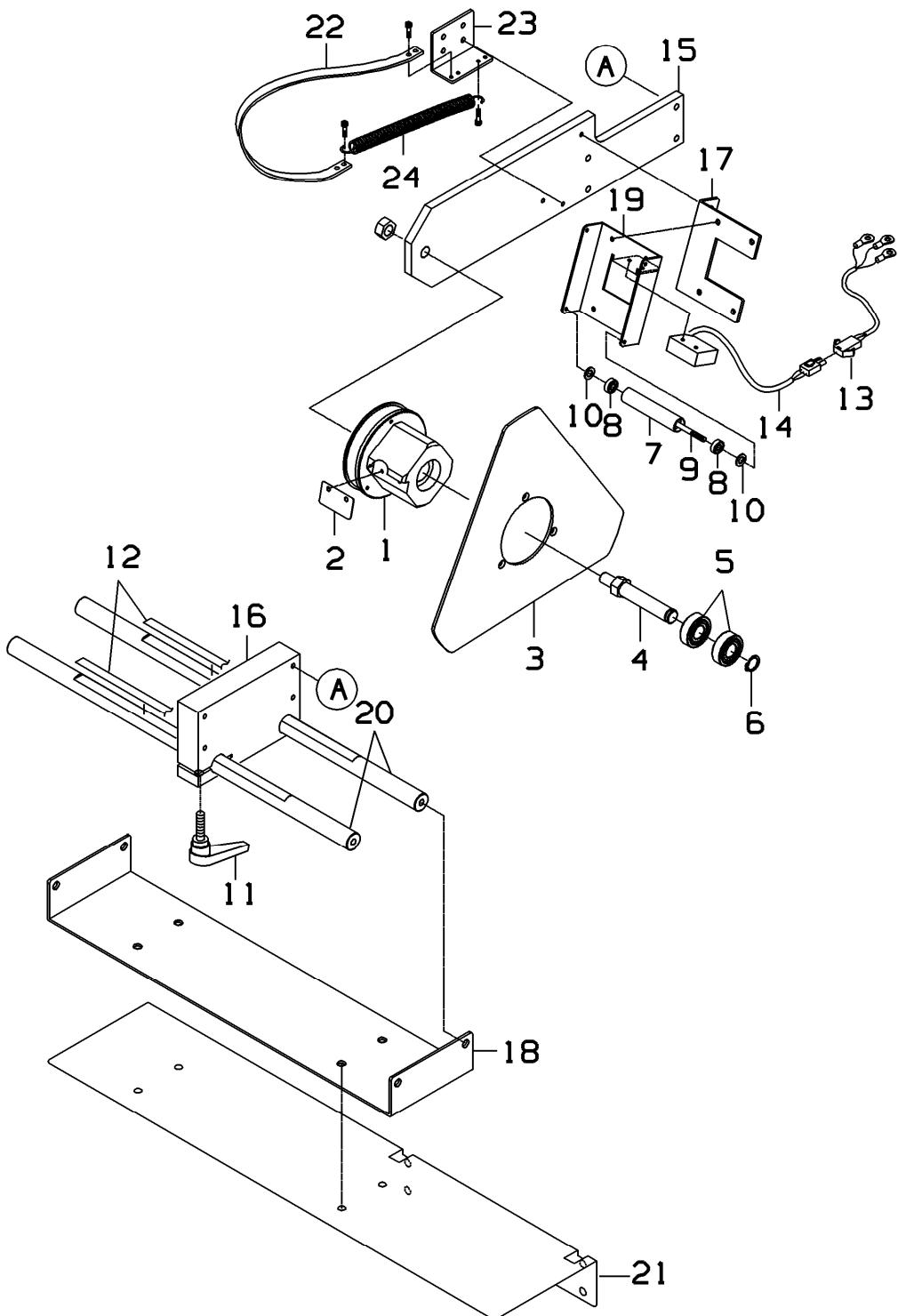
No. 4D-53762



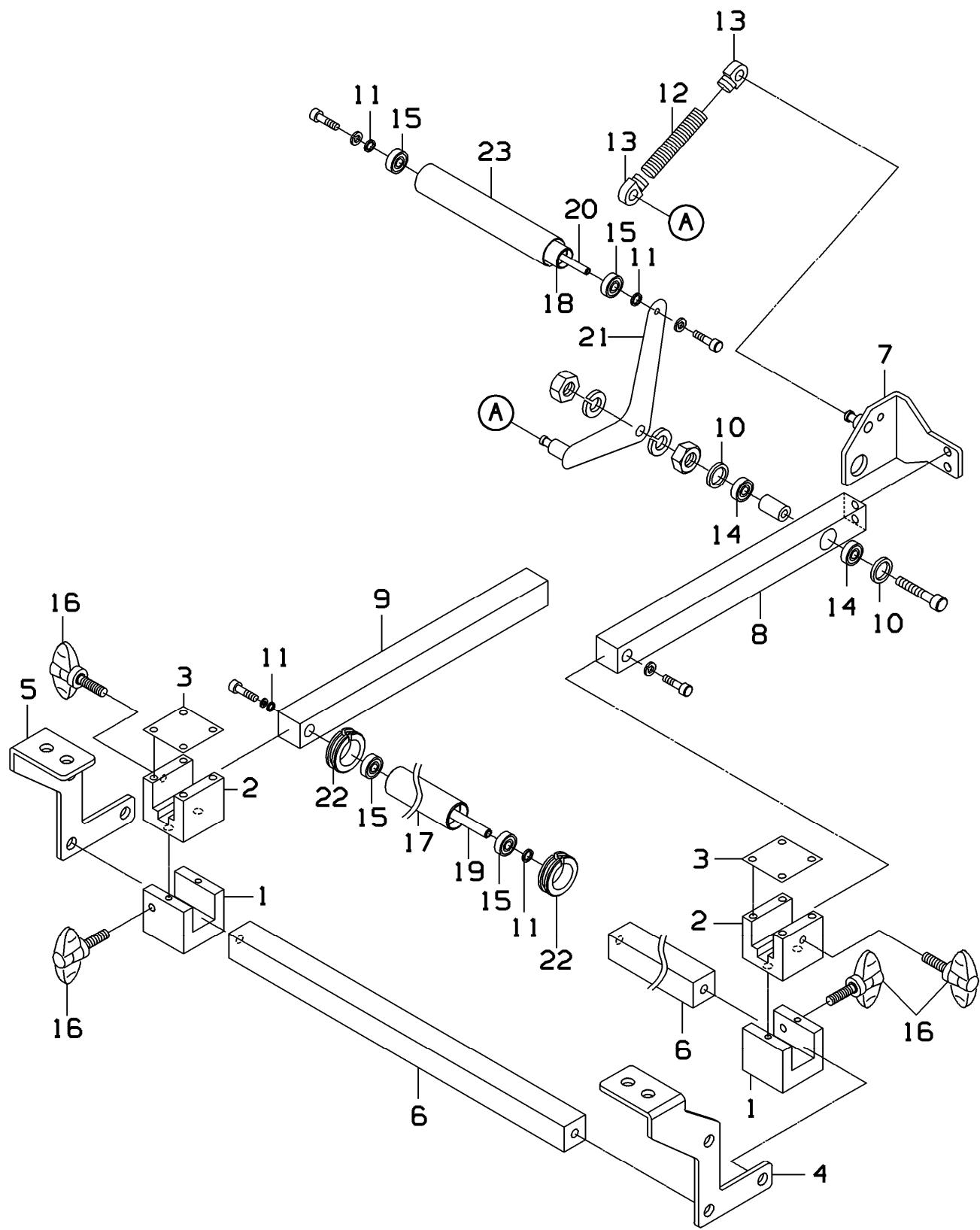




UNIT NAME	LINE SENSOR UNIT::	DRAW NO.	4D-49672
-----------	--------------------	----------	----------

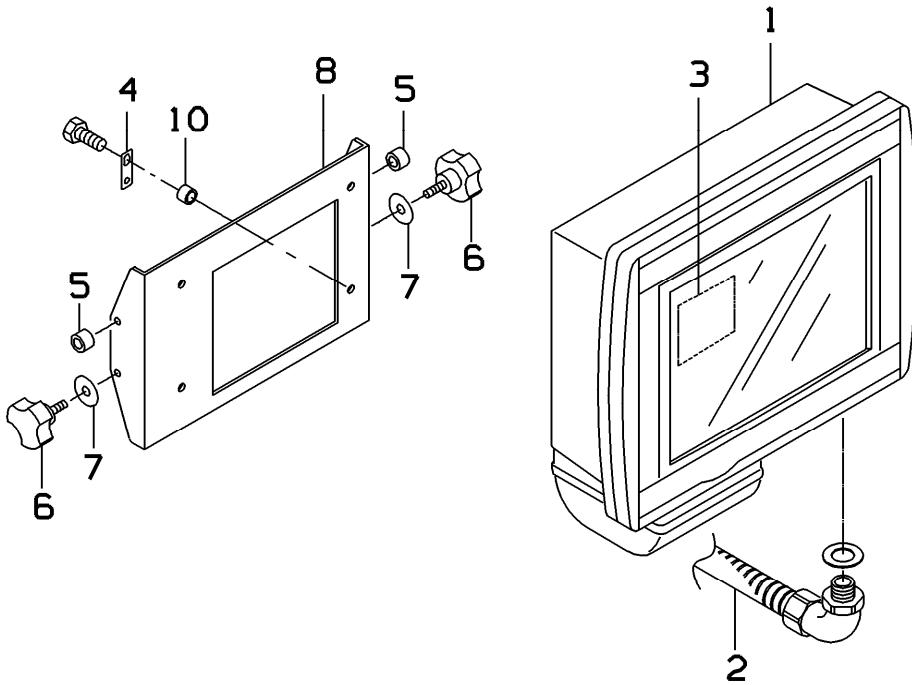


UNIT NAME	BANNER UNIT:REAR:	DRAW NO.	4D-38164
-----------	-------------------	----------	----------



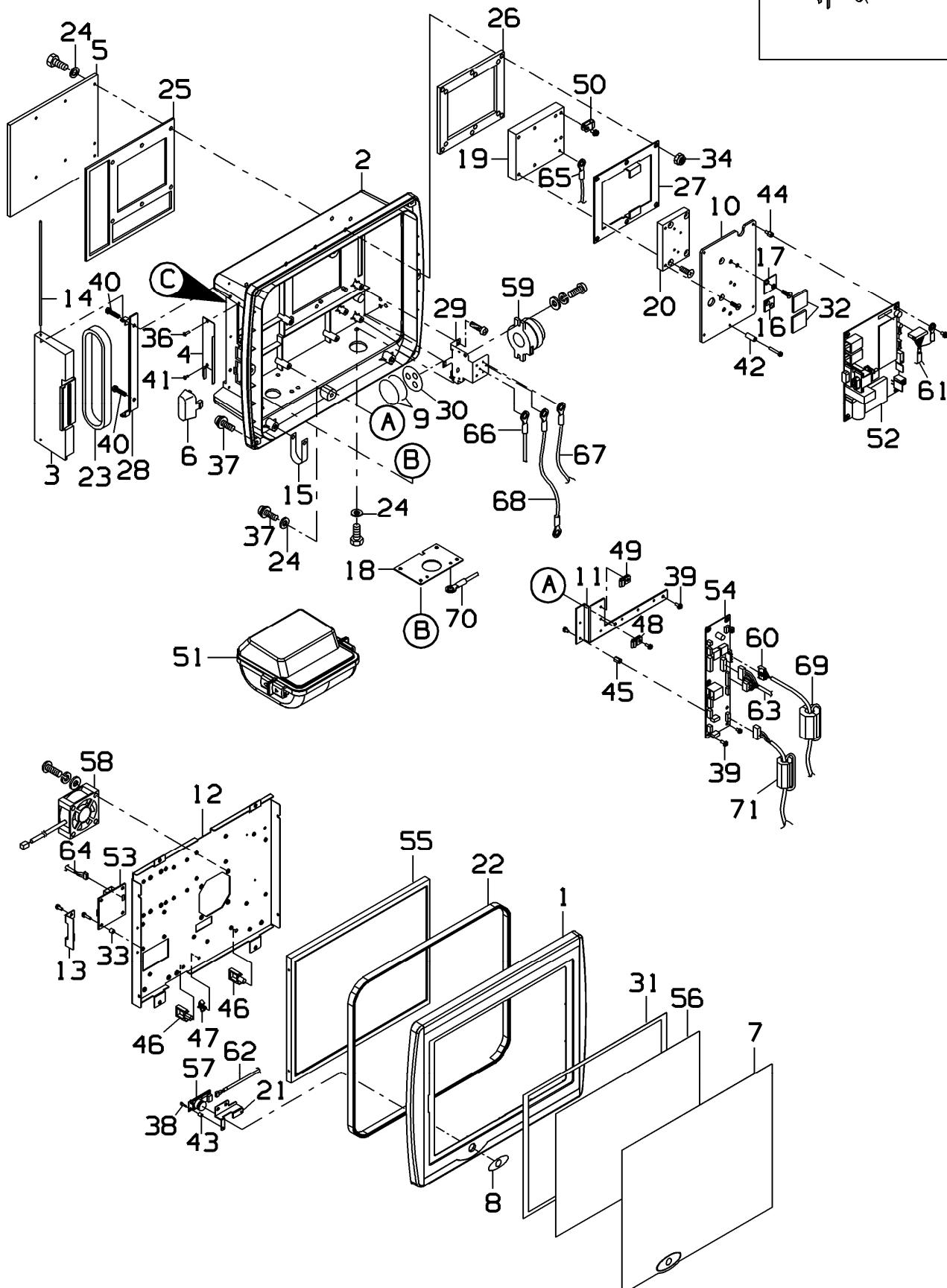
UNIT NAME	BANNER UNIT:FRONT:	DRAW NO.	4D-43835
-----------	--------------------	----------	----------

9 —





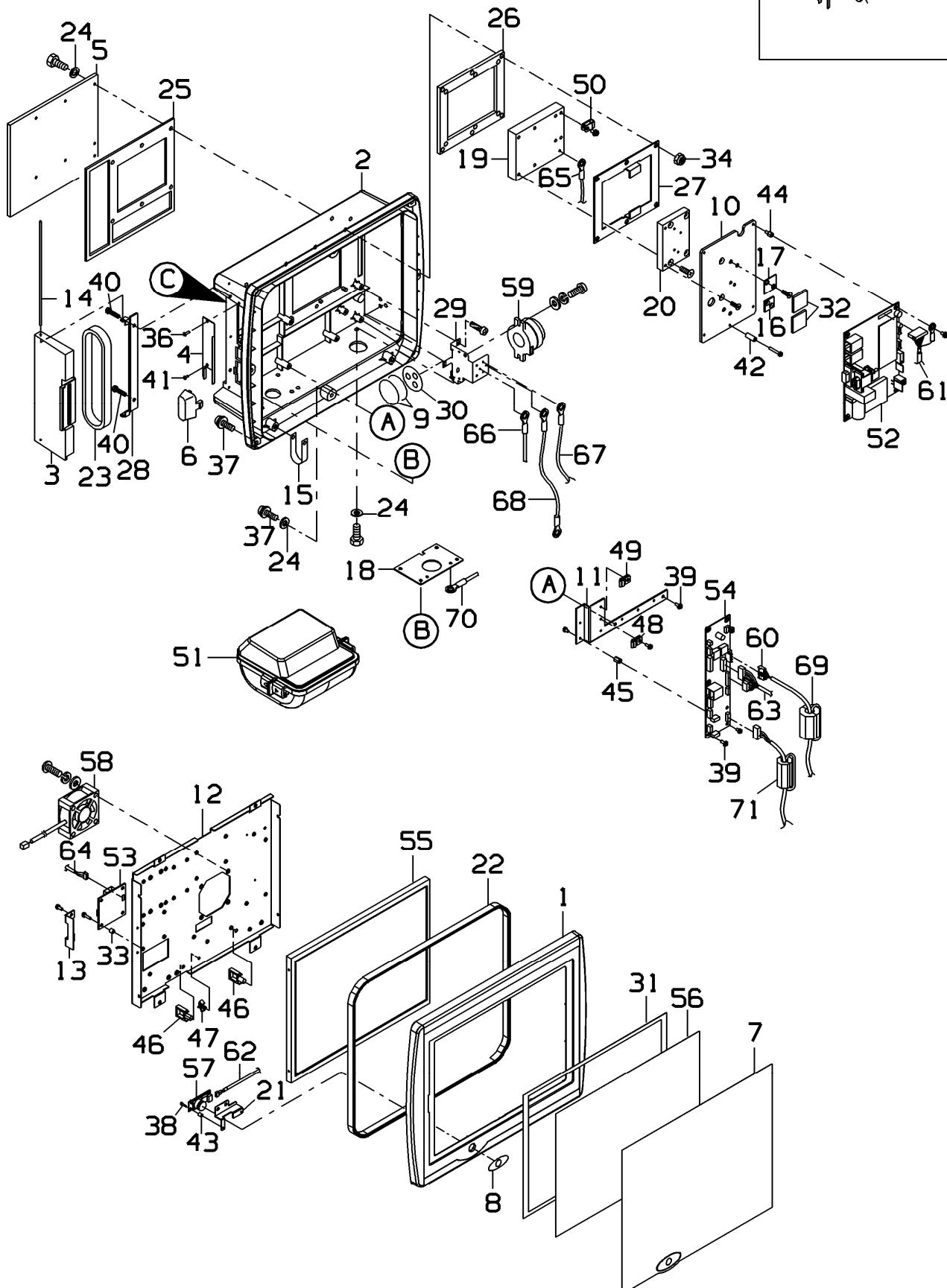
No. 4D-44372



UNIT NAME	REMOTE CONTROL BOX AS::	DRAW NO.	4D-44372
-----------	-------------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-144-5016-44	REMOTE CONTROL BOX AS::	
1	000-101-1063-00	COVER:FRONT:	1
2	000-101-1075-13	COVER:REAR:	1
3	000-101-1073-07	COVER:CARD:	1
4	000-143-2832-12	COVER:USB:	1
5	000-144-2970-28	COVER::	1
6	000-101-1074-01	CAP::	1
7	000-142-7504-01	SHEET:DISPLAY:	1
8	000-102-0463-00	SHEET:DISPLAY:WINDOW	1
9	000-037-0139-02	SHEET:MICRO-TEX:	2
10	000-144-2967-17	CHASSIS::	1
11	000-144-5441-16	BRACKET::	1
12	000-143-2829-28	CHASSIS:COLOR LCD:	1
13	000-144-5494-13	BRACKET::	1
14	000-101-4840-08	SHAFT::	1
15	000-102-0684-15	PLATE A::	2
16	000-144-2971-03	PLATE A::	1
17	000-144-2972-07	PLATE A::	2
18	000-101-4831-04	PLATE B::	1
19	000-101-4836-02	BLOCK A::	1
20	000-144-2969-05	BLOCK A::	1
21	000-143-2721-01	BASE:CAMERA:	1
22	000-101-4848-07	GASKET:CASE:	1
23	000-101-4853-06	GASKET:MEMORY CARD:	1
24	000-003-8286-00	GASKET::SEAL WASHER	9
25	000-105-3663-01	GASKET:HEAT SINK:	1
26	000-100-6943-08	GASKET:REMOTE CONTROL:	1
27	000-100-6947-02	BRACKET::	1
28	000-101-4839-03	BRACKET:COVER:	1
29	000-145-0398-09	BRACKET:BUZZER:	1
30	000-063-5680-08	TAPE::TWO SIDED	1
31	000-106-2688-07	TAPE::BOTH FACES	1
32	000-144-5019-08	SHEET:THERMAL:CPU	3
33	000-000-0390-03	COLLAR::SPACER	4
34	000-002-2277-07	HEX NUT:T2:W/NYLON LOCK	6
35	000-144-8384-09	HEX NUT:T1:	1

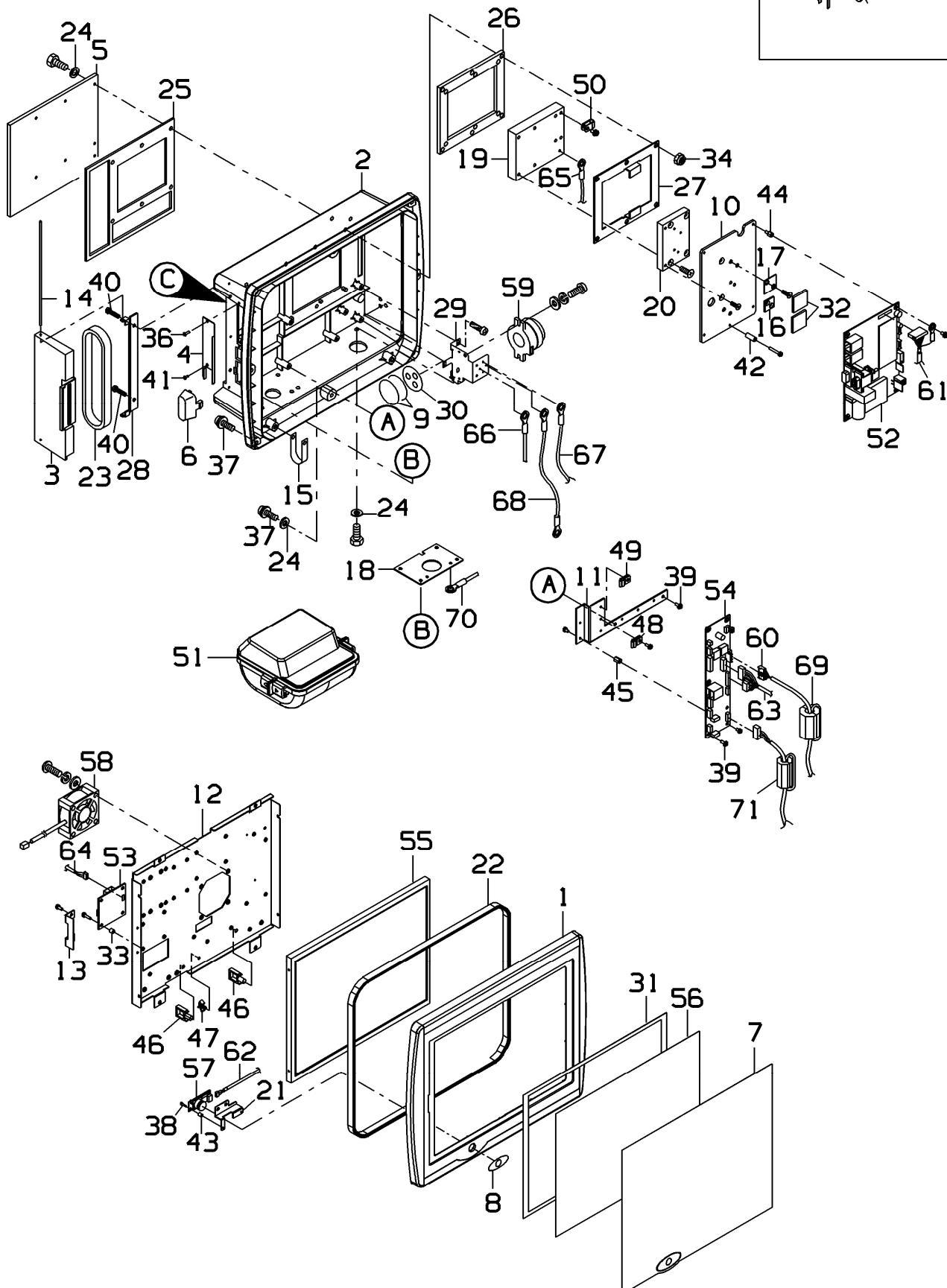
No. 4D-44372



UNIT NAME	REMOTE CONTROL BOX AS::	DRAW NO.	4D-44372
-----------	-------------------------	----------	----------

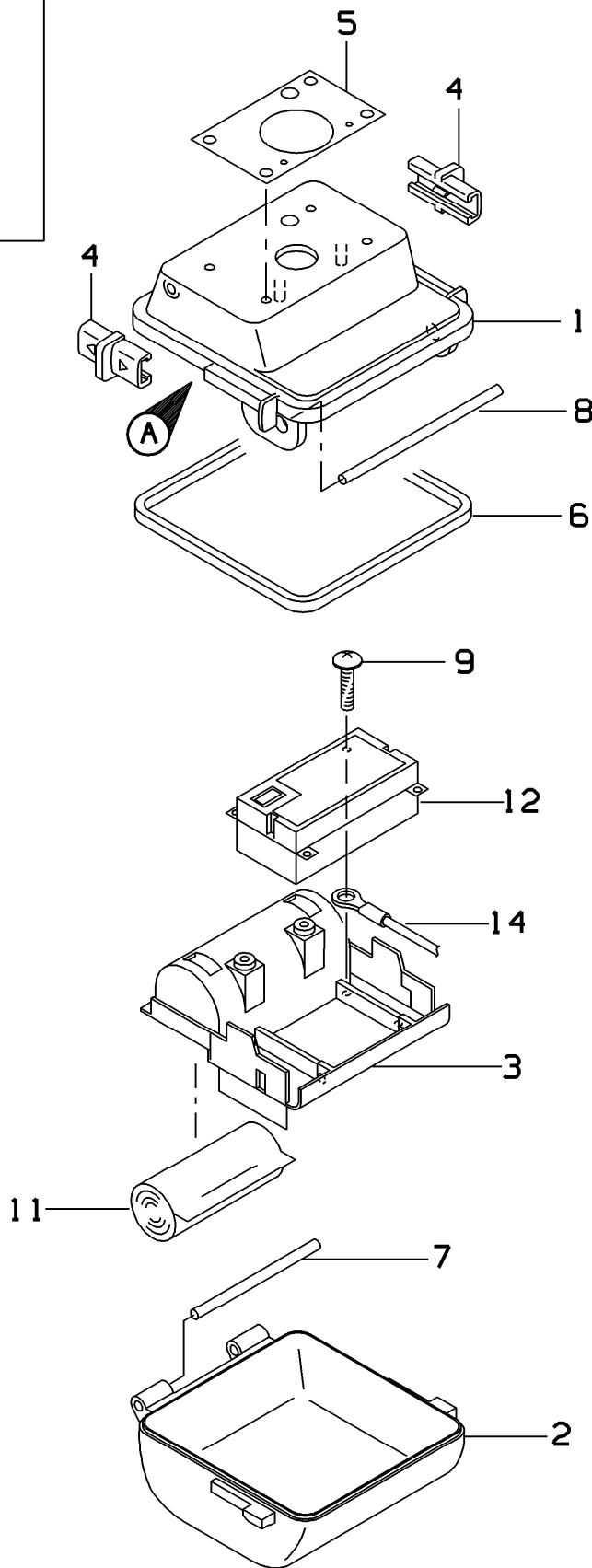
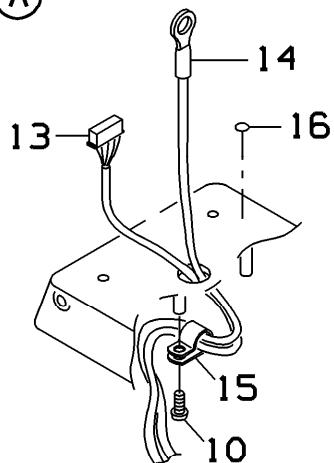
NO.	PART CODE	PART NAME	QUANTITY
●	000-144-5016-44	REMOTE CONTROL BOX AS::	
36	000-144-8385-02	SCREW:CROSS PAN HEAD:	1
37	000-064-1585-00	SCREW:CROSS PAN HEAD:BWA S2P2	8
38	000-067-6501-07	SCREW:CROSS PAN HEAD:	2
39	000-144-8386-06	TP TAPPING SCREW::	8
40	000-050-2021-01	TAPPING SCREW:CROSS TRUSS:T2	2
41	000-144-8387-00	TAPPING SCREW:CROSS PAN HEAD:	1
42	000-041-5641-00	PWB ACCESSORY:SPACER:	1
43	000-098-0061-08	PWB ACCESSORY:SPACER:	2
44	000-130-2116-07	PWB ACCESSORY:CARD SPACER:	4
45	000-058-3486-01	PWB ACCESSORY:SPACER:	2
46	000-030-1122-02	ACCESSORY:CLAMP:LWS CLAMP	2
47	000-052-3187-04	ACCESSORY:CLAMP:YMC CLAMP	1
48	000-051-9489-03	ACCESSORY:CLAMP:SHIELD	2
49	000-051-9490-08	ACCESSORY:CRAMP:SHIELD	1
50	000-000-4755-03	ACCESSORY:CLAMP:NYLON CLAMP	1
51	000-144-8370-25	PRINTER BOX AS::	1
52	100-000-3640-00	PWB AS:WEB RCU:	1
53	000-144-5021-06	PWB:P-5661:-1	1
54	000-144-5022-00	PWB:P-5662:-1	1
55	000-135-4850-11	DISPLAY:LCD:TFT	1
56	000-096-5256-10	TOUCH PANEL:ANALOG:	1
57	000-144-5023-03	CAMERA:CMOS:COLLAR	1
58	000-144-8064-07	FAN AS::	1
59	000-144-8375-05	BUZZER AS::	1
60	000-144-8066-04	HARNESS:C2:+12V	1
61	000-144-8067-08	HARNESS:C3:LCD	1
62	000-144-8068-01	HARNESS:C2:USB	1
63	000-144-8069-05	HARNESS:C4:TP-IF	1
64	000-144-8070-00	HARNESS:C2:BL-IF	1
65	000-145-4202-07	HARNESS:S2:EARTH	1
66	000-145-4203-01	HARNESS:S2:EARTH	2
67	000-145-4204-04	HARNESS:S2:EARTH	1
68	000-145-4206-01	HARNESS:C2:EARTH	1
69	000-047-9062-11	FILTER:FERRITE:	1
70	000-145-7014-04	HARNESS:S2:EARTH	1

No. 4D-44372

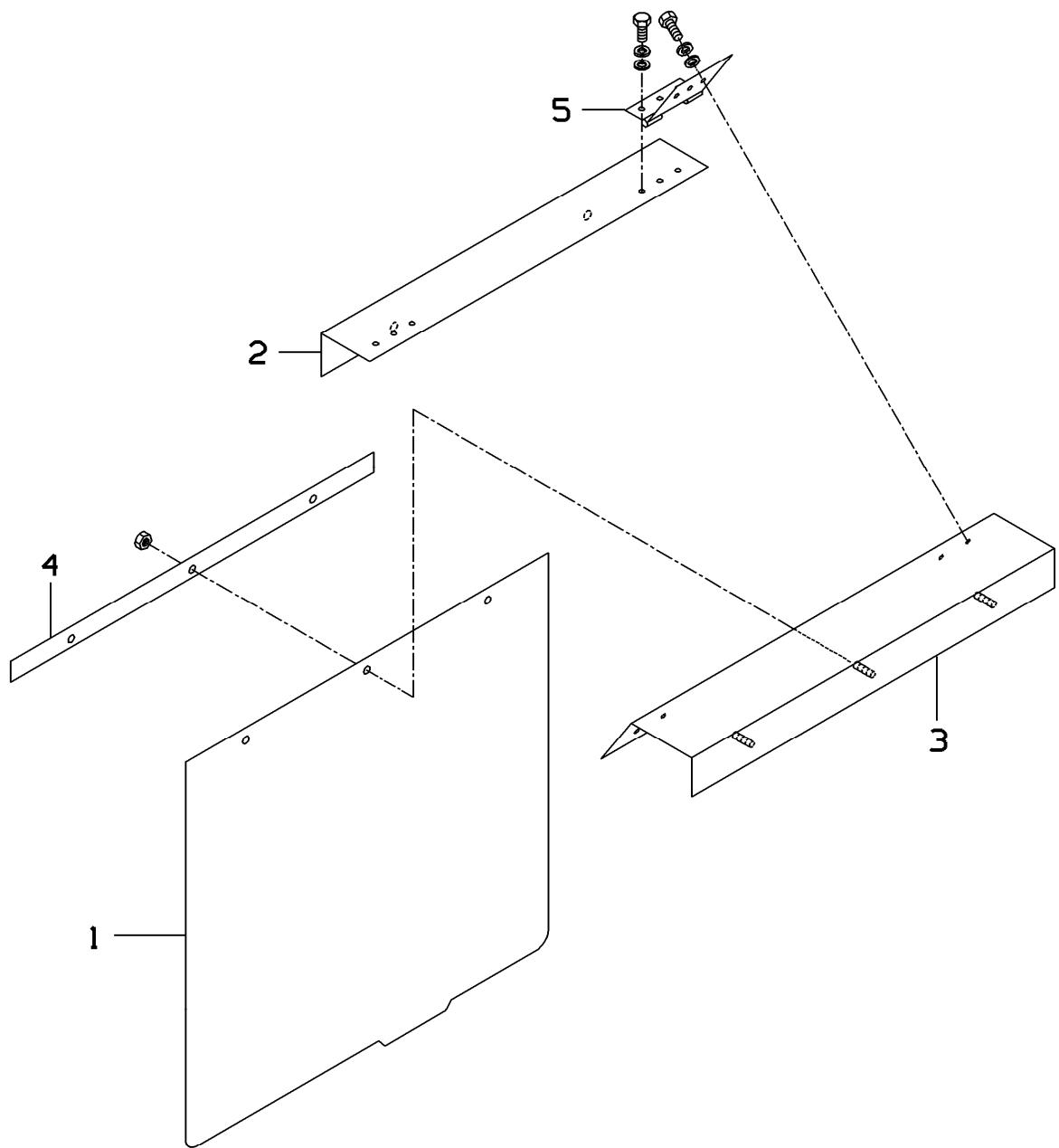


UNIT NAME	REMOTE CONTROL BOX AS::	DRAW NO.	4D-44372
-----------	-------------------------	----------	----------

(A)

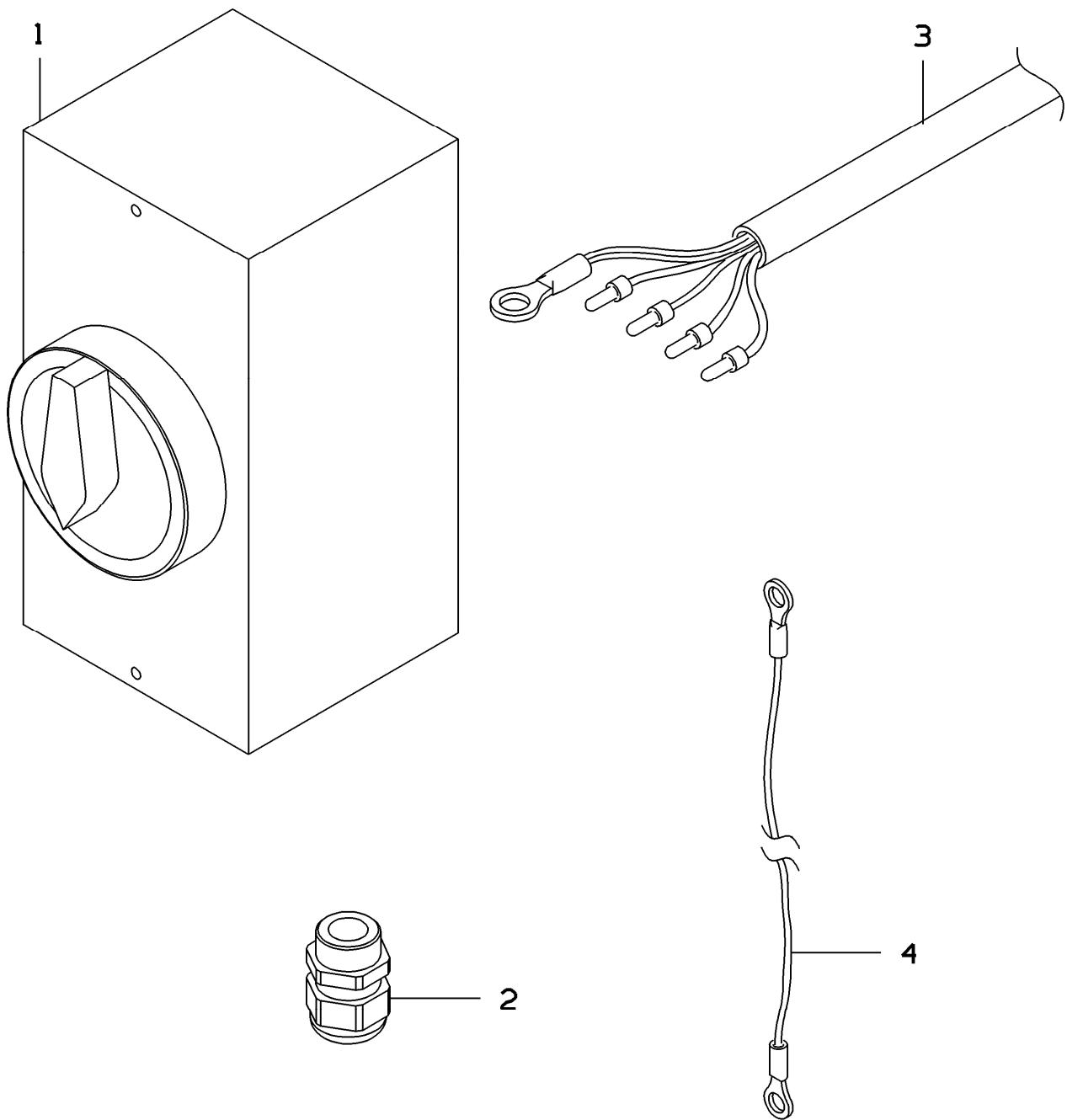






UNIT NAME	COVER UNIT:REMOTE CONTROL:	DRAW NO.	4D-33218
-----------	----------------------------	----------	----------

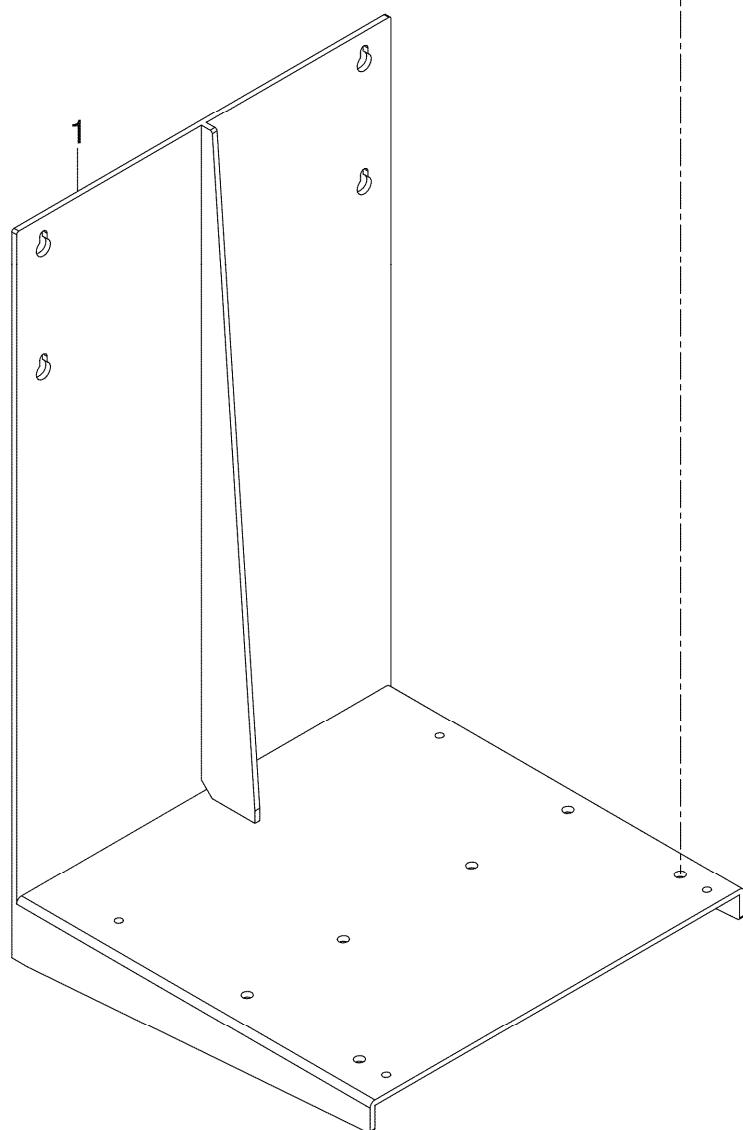
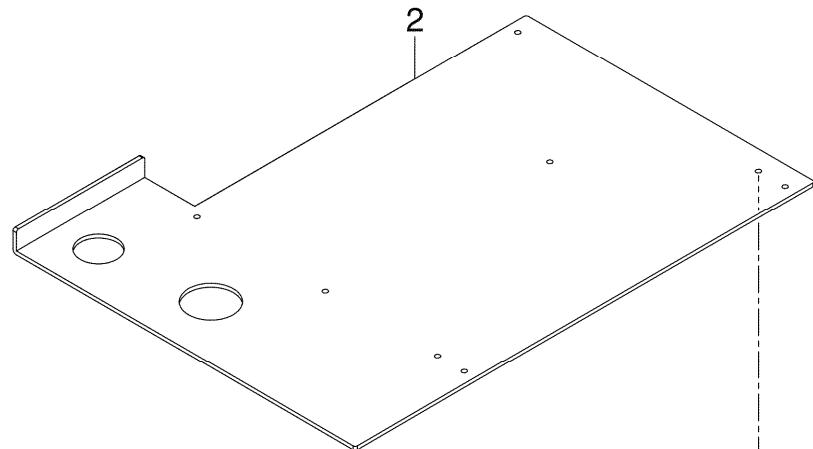
No. 4D-50035



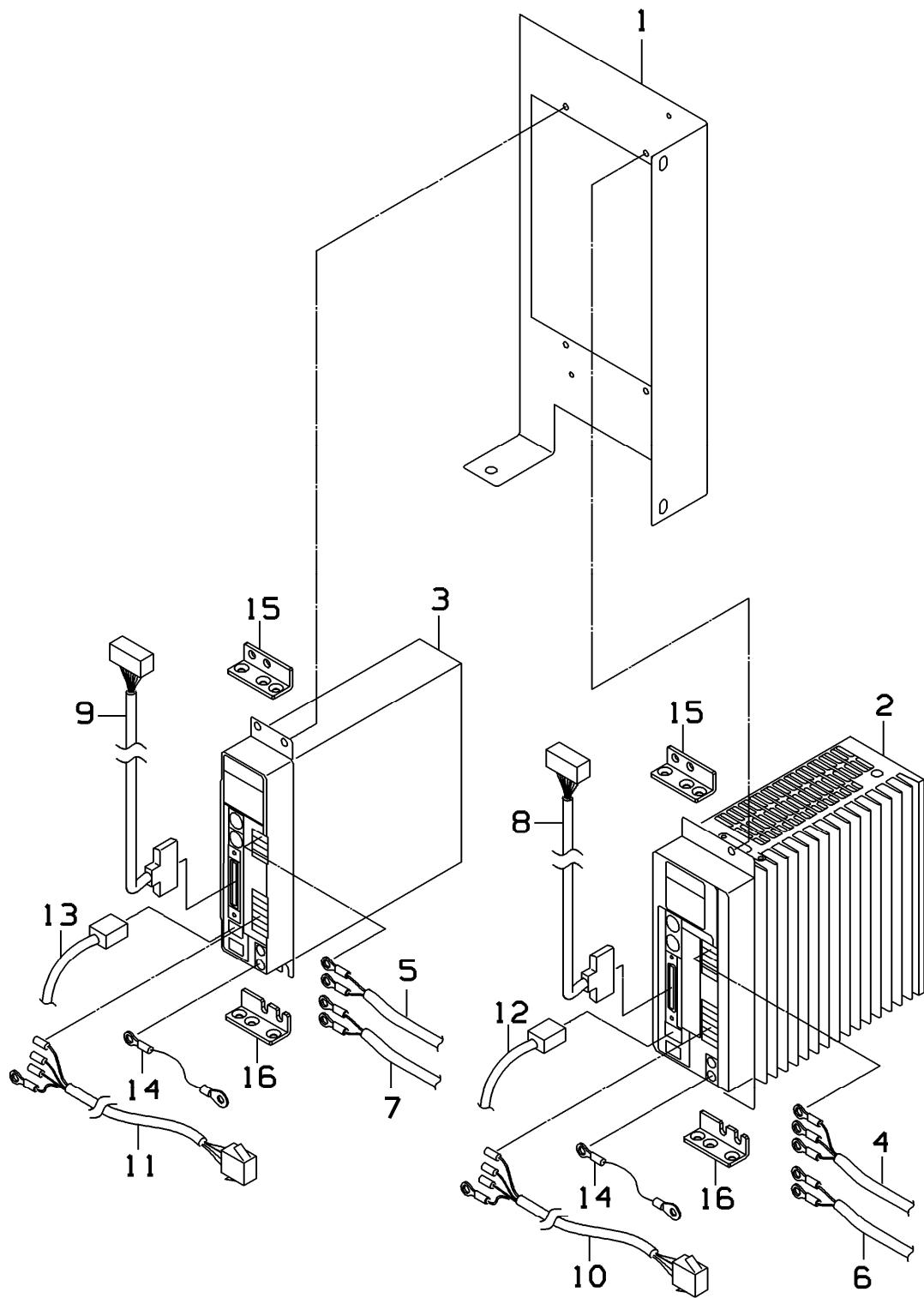
UNIT NAME	PS-O UNIT::	DRAW NO.	4D-50035
-----------	-------------	----------	----------

NO.

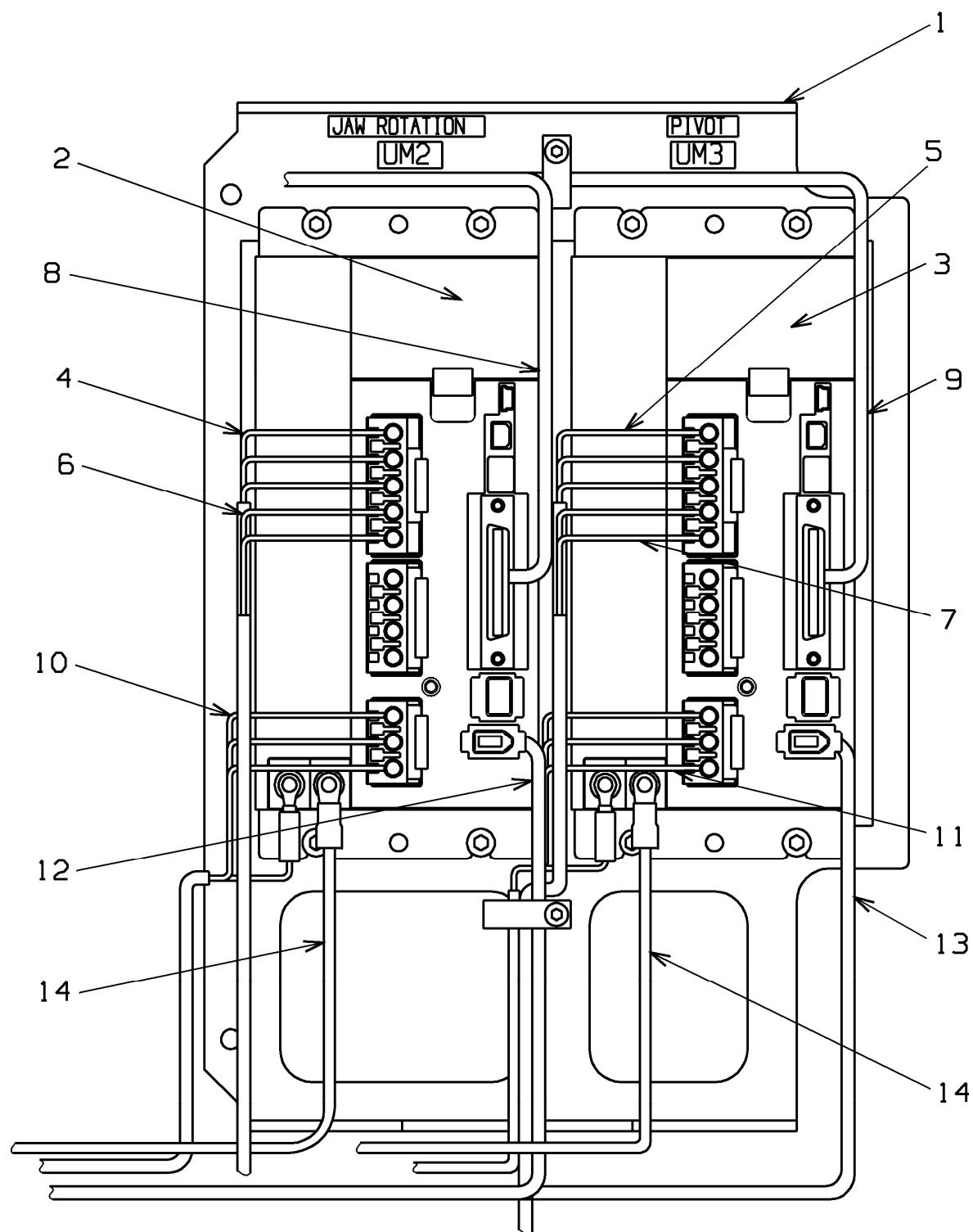
4D-54389



UNIT NAME	BASE UNIT:ELECTRICAL BOX:GUSSET	DRAW NO.	4D-54389
-----------	---------------------------------	----------	----------

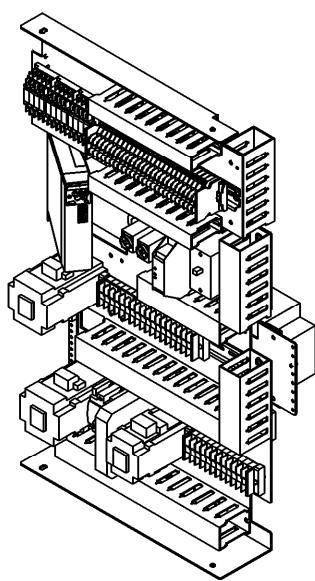
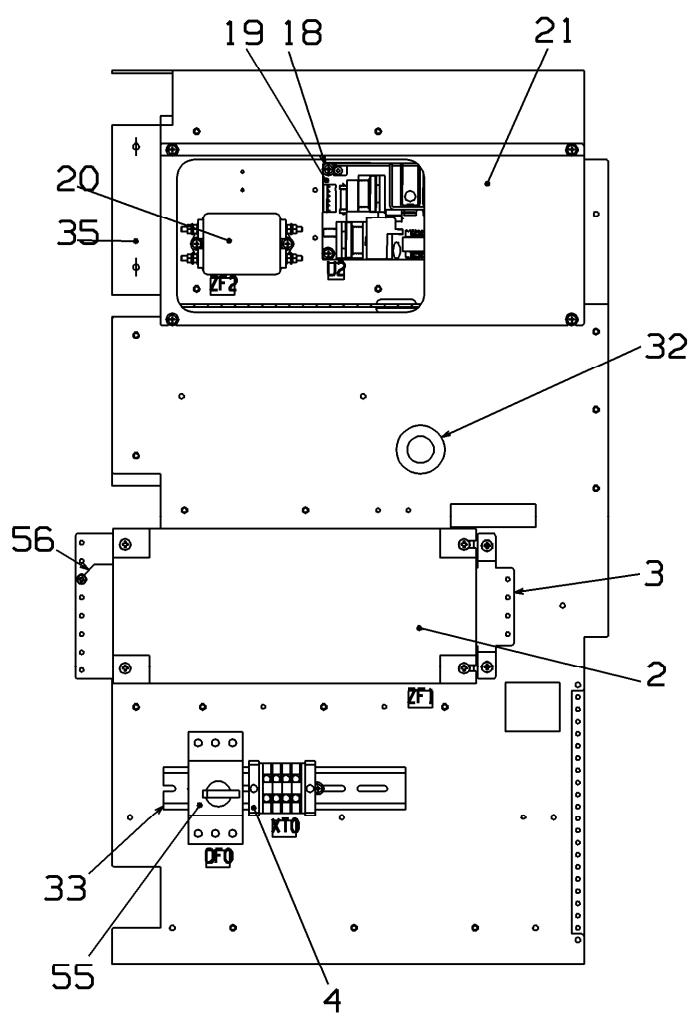
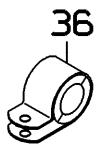
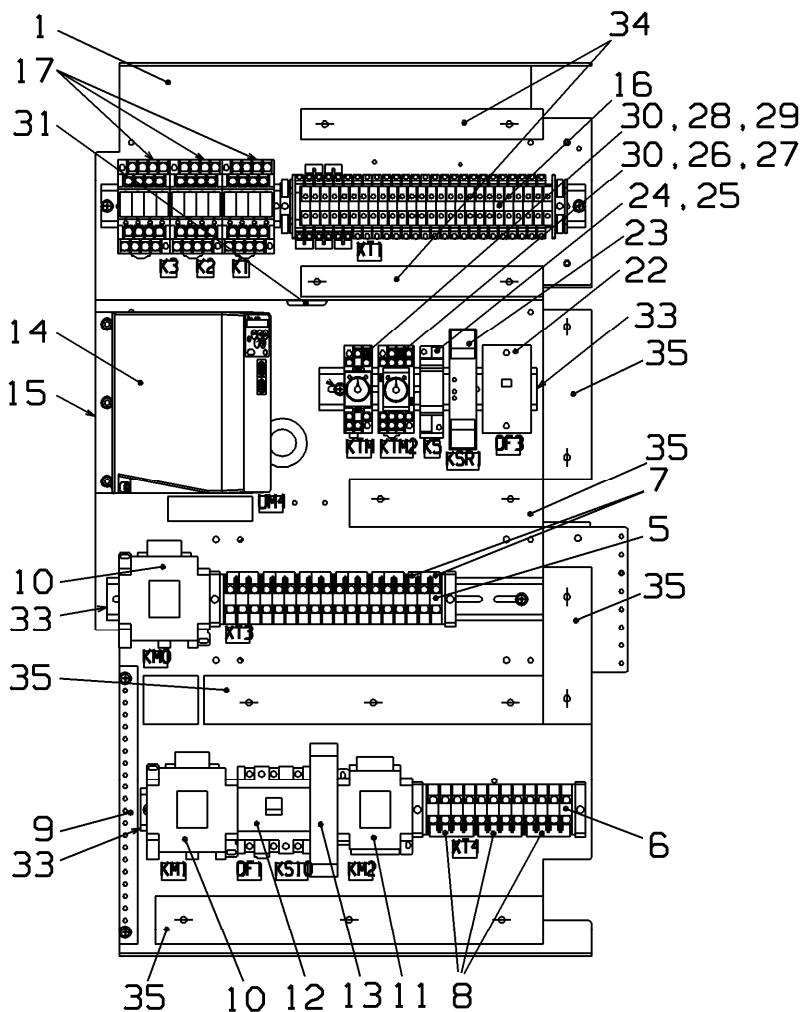


UNIT NAME	DRIVER UNIT:BACK SEAL:	DRAW NO.	4D-43309
-----------	------------------------	----------	----------



UNIT NAME	DRIVER UNIT:END SEAL:	DRAW NO.	4D-43310
-----------	-----------------------	----------	----------

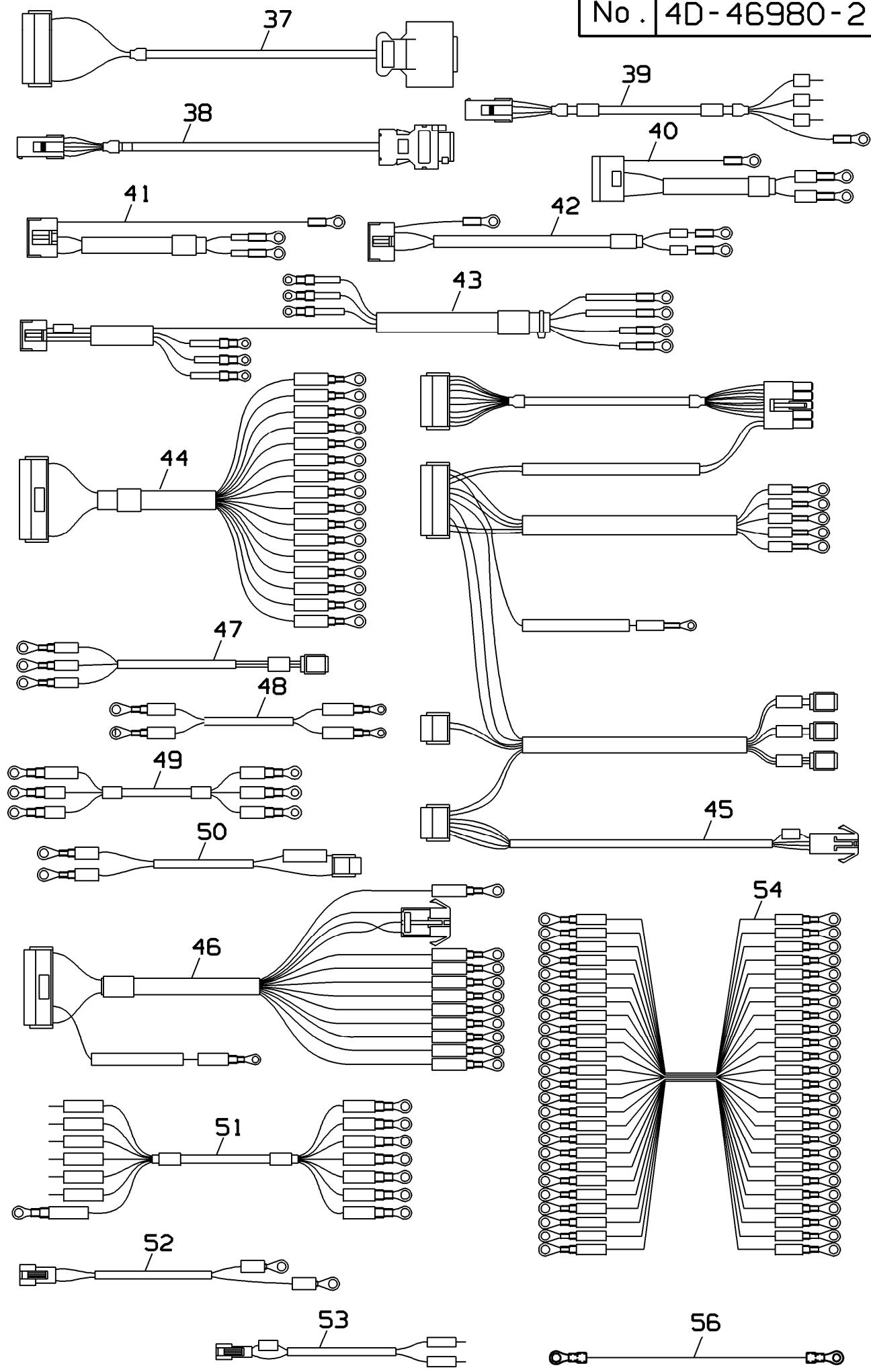
No. 4D-46980-1



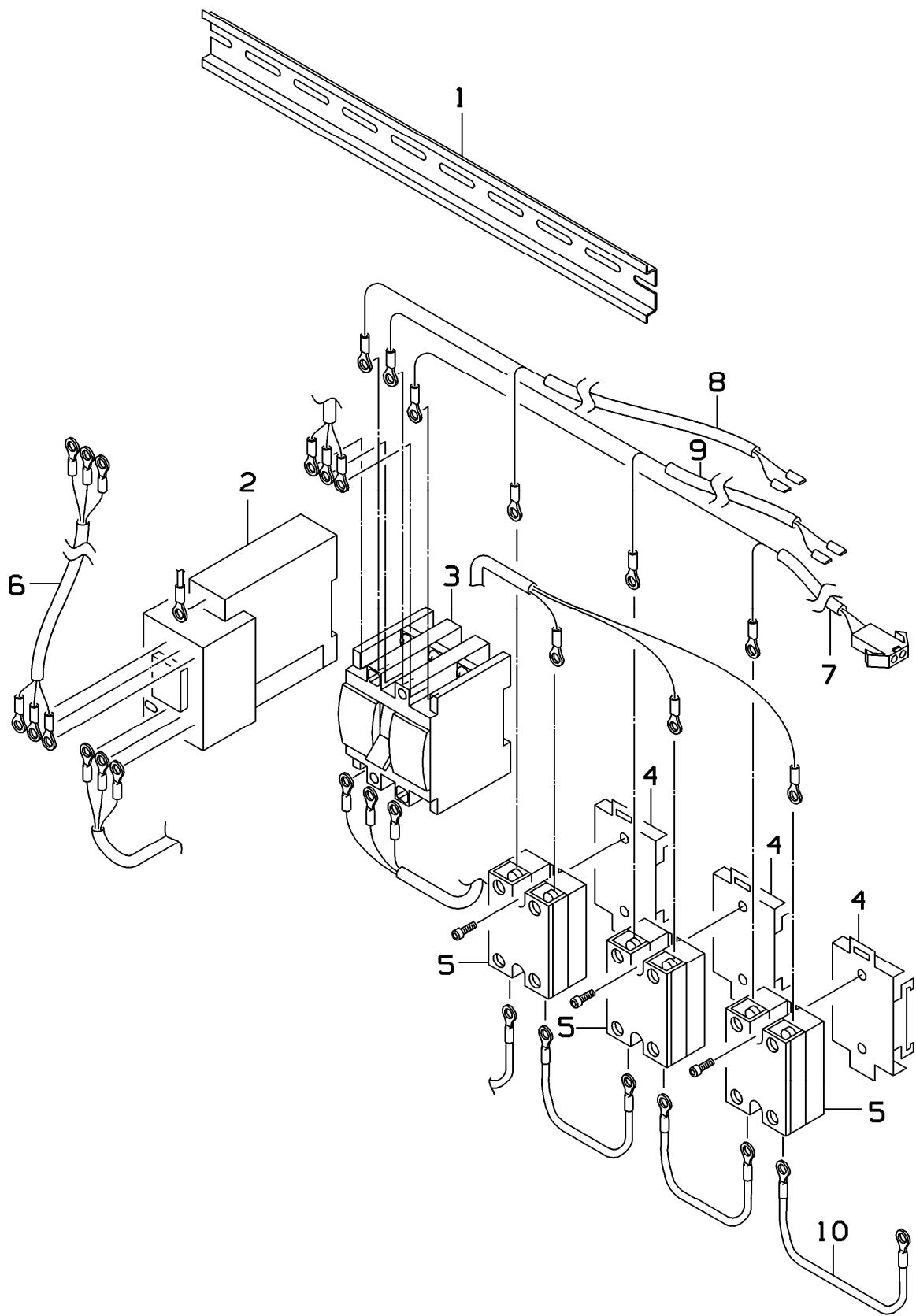
UNIT NAME	ELECTRIC UNIT:MAIN:	DRAW NO.	4D-46980
-----------	---------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-139-5595-22	ELECTRIC UNIT:MAIN:	
1	000-136-0478-20	CHASSIS:MAIN:	1
2	000-146-3314-04	FILTER:NOISE:	1
3	000-149-1856-01	BRACKET:NOISE FILTER:	1
4	000-103-9921-09	TERMINAL:BLOCK:	1
5	000-090-0435-09	TERMINAL:BLOCK:	1
6	000-095-7149-05	TERMINAL:BLOCK:	1
7	000-133-9911-09	TERMINAL:BLOCK:METAL FITTING	12
8	000-123-0348-00	TERMINAL:BLOCK:METAL FITTING	3
9	000-051-9349-05	TERMINAL BLOCK:CAL:CAL	1
10	000-086-8104-00	ELECTROMAGNETIC CONTACTOR::	2
11	000-069-2403-05	ELECTROMAGNETIC CONTACTOR::	1
12	000-095-3849-04	BREAKER:CIRCUIT:	1
13	000-135-1988-01	RELAY:SOLID STATE:	1
14	000-130-7659-01	CONTROLLER:DRIVER:SERVO	1
15	000-137-6852-01	BRACKET:DRIVER:	1
16	000-112-3835-01	TERMINAL AS:BLOCK:	1
17	000-023-5149-00	RELAY:TERMINAL:4A	3
18	000-057-2133-06	PWB ACCESSORY:SPACER:	4
19	000-130-1721-07	POWER SUPPLY:SWITCHING:	1
20	000-094-2006-01	FILTER:NOISE:	1
21	000-086-3798-06	COVER:PS-2:	1
22	000-077-5629-05	BREAKER:CIRCUIT:	1
23	000-117-8165-04	RELAY UNIT:SAFETY:	1
24	000-019-3708-09	RELAY::I/O	1
25	000-010-5936-03	SOCKET:RELAY:	1
26	000-117-8164-01	TIMER:H3Y-4:	1
27	000-008-8151-07	SOCKET:RELAY:	1
28	000-059-9044-08	TIMER:H3Y-2:	1
29	000-002-0286-03	SOCKET:COMMON:	1
30	000-002-0290-09	SOCKET::LOCK PLATE	2
31	000-017-9943-05	GROMMET:W/O DIAPHRAGM:	1
32	000-021-9194-08	GROMMET:W/O DIAPHRAGM:	1
33	000-004-5872-09	RAIL:DIN:	1
34	000-101-4800-09	ACCESSORY:DUCT:	0.2
35	000-028-4809-07	ACCESSORY:DUCT:	1

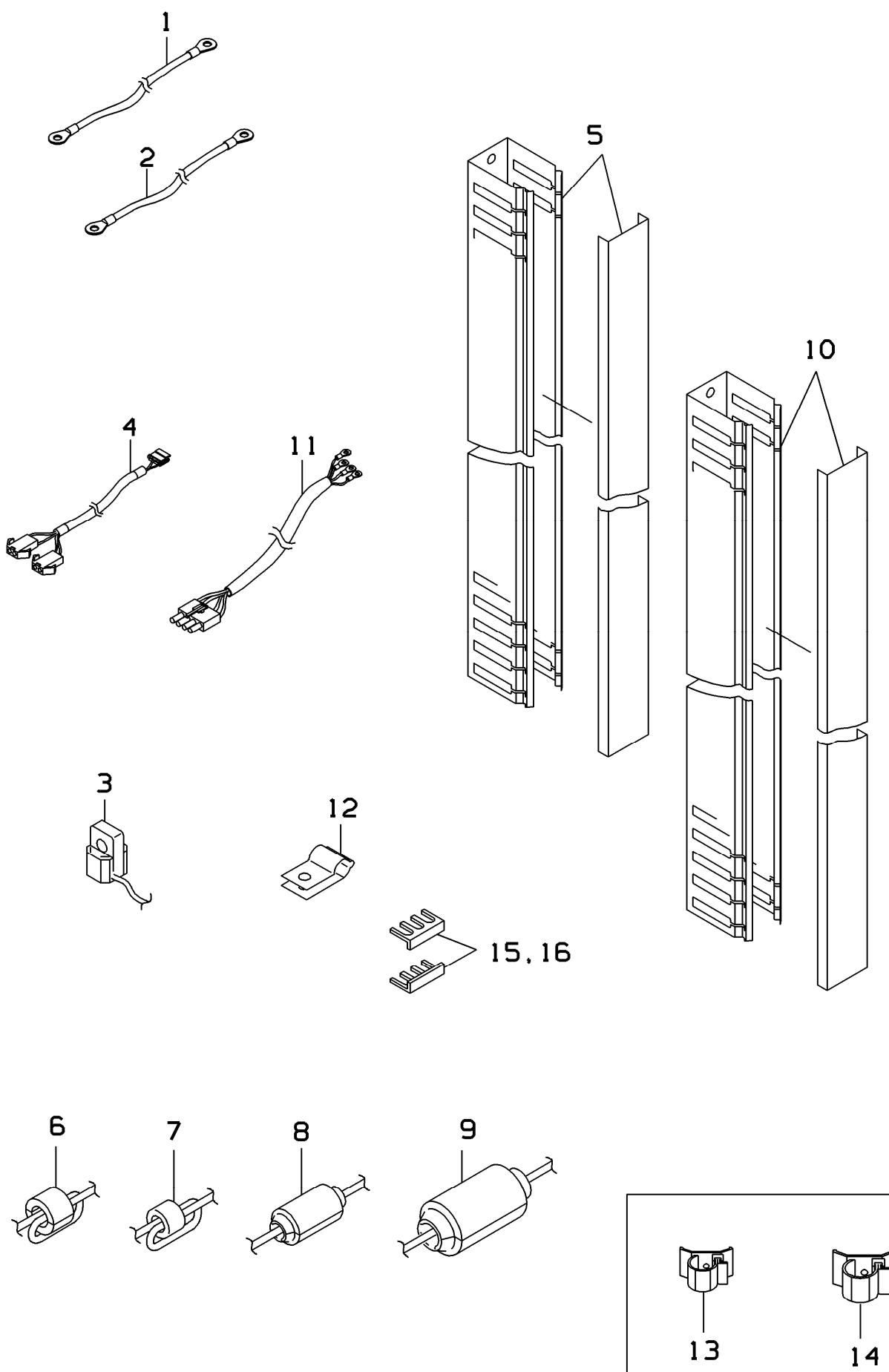
No. 4D-46980-2



UNIT NAME	ELECTRIC UNIT:MAIN:	DRAW NO.	4D-46980
-----------	---------------------	----------	----------

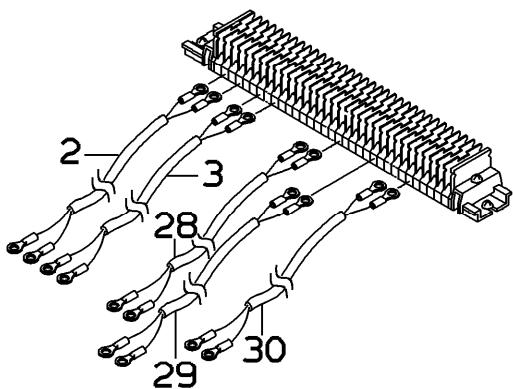
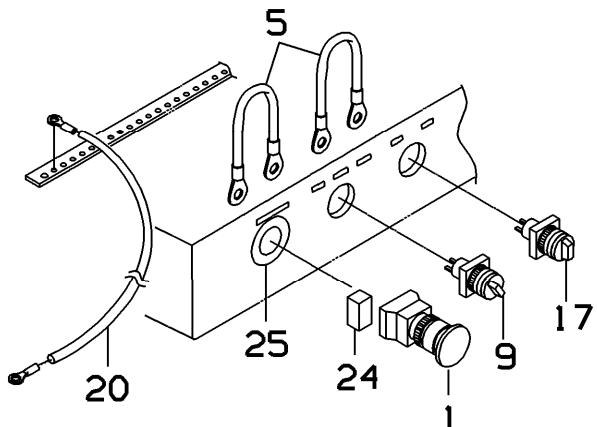
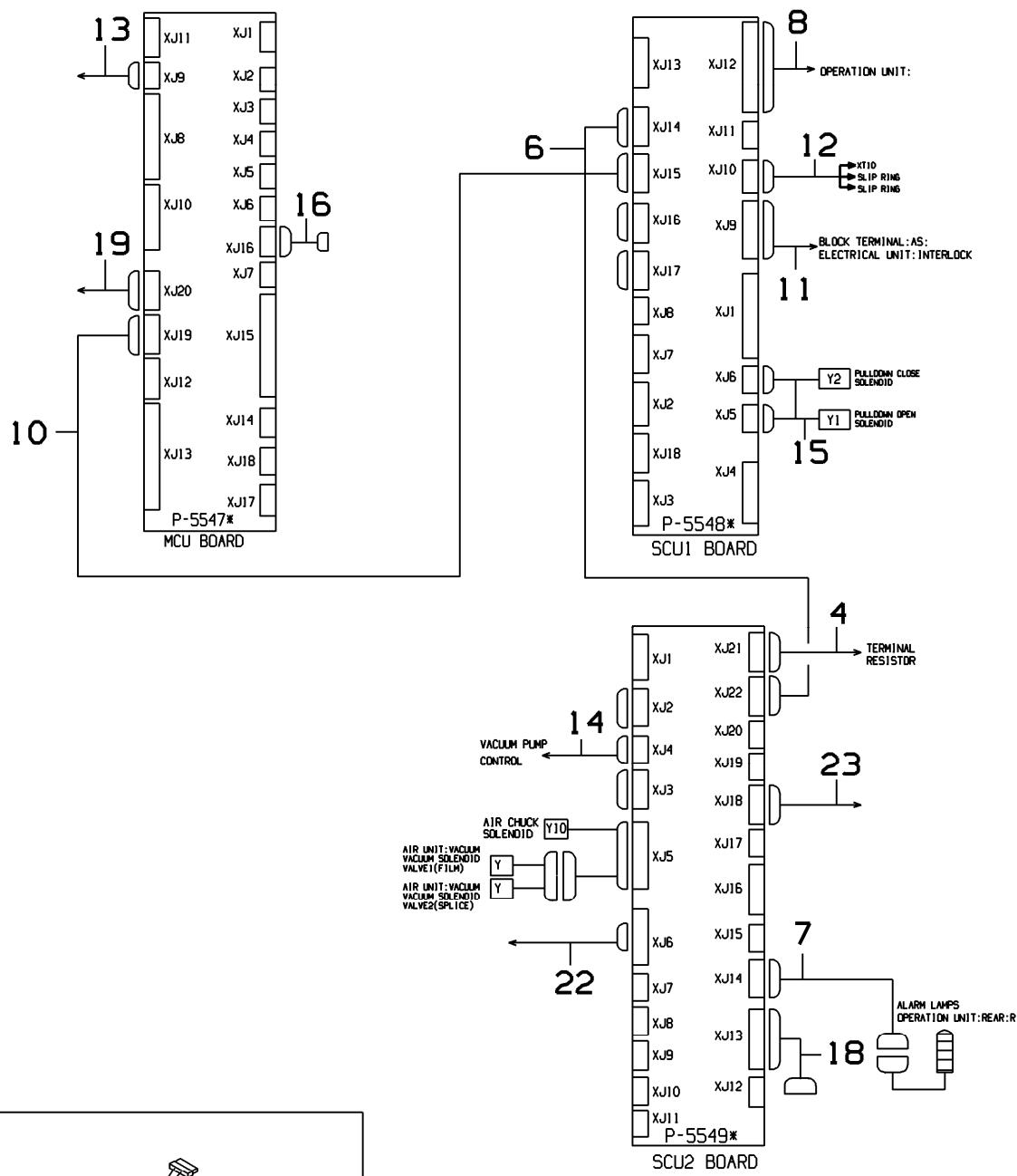


UNIT NAME	ELECTRIC UNIT:HEATER:	DRAW NO.	4D-35188
-----------	-----------------------	----------	----------



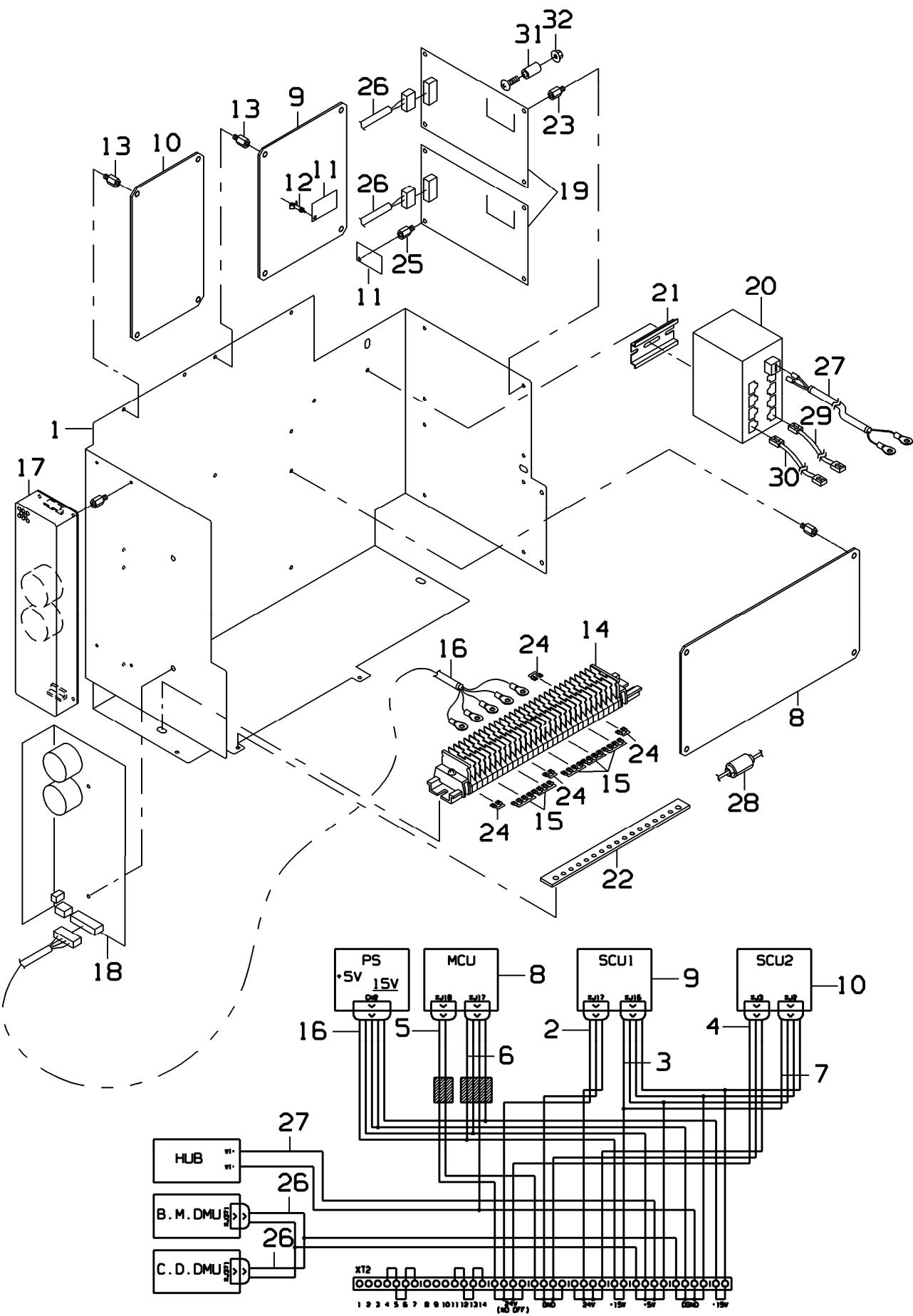


No. 4D-53720



UNIT NAME	ELECTRIC UNIT:ACCESSORY:2	DRAW NO.	4D-53720
-----------	---------------------------	----------	----------

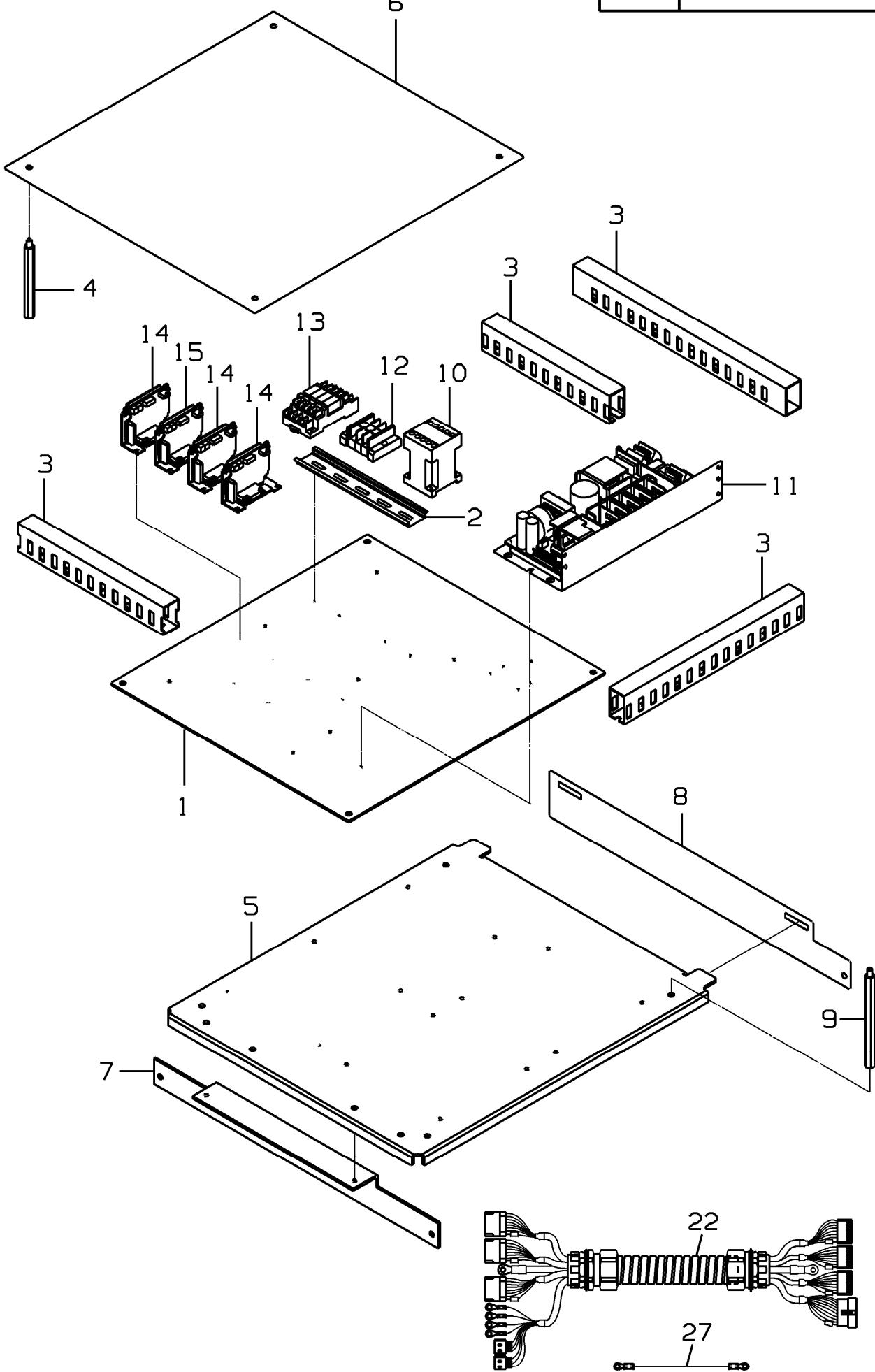
NO.	PART CODE	PART NAME	QUANTITY
●	000-139-2159-04	ELECTRIC UNIT:ACCESSORY:2	
1	000-064-9296-02	SWITCH:PUSH:EMERGENCY	2
2	000-107-0703-28	HARNESS:S4:EMG-SW	1
3	000-107-0704-21	HARNESS:S4:EMG-SW	1
4	000-049-8371-12	CONNECTOR AS::COMMUNICATION	2
5	000-092-2413-09	HARNESS:S2:	2
6	000-110-4112-01	HARNESS:S2:COMMUNICATION	1
7	000-107-0709-11	HARNESS:C2:EMERGENCY LIGHT	1
8	000-110-4799-19	HARNESS:C5:SWITCH	1
9	000-068-7011-00	SWITCH:SELECT:	1
10	000-110-4113-14	HARNESS:S2:COMMUNICATION	1
11	000-125-3872-29	HARNESS:C7:HEAT CONTROL	1
12	000-113-1349-08	HARNESS:C6:SENSOR JUNCTION	1
13	000-109-0163-12	HARNESS:C2:MICRO SWITCH	1
14	000-110-6330-04	HARNESS:C2:	1
15	000-086-1951-02	HARNESS:C3:SOLENOID VALVE	1
16	000-116-7651-07	HARNESS:C4:	1
17	000-068-7010-06	SWITCH:SELECT:	1
18	000-092-2430-11	HARNESS:C2:	1
19	000-110-4111-17	HARNESS:S2:COMMUNICATION	1
20	000-066-0109-10	HARNESS:S2:EARTH	1
21	000-086-3986-00	HARNESS:S2:RS-232C	1
22	000-110-2931-17	HARNESS:C4:SOLENOID VALVE	1
23	000-106-7943-14	HARNESS:C3:	1
24	000-101-2115-03	ACCESSORY:SWITCH:CONTACT	2
25	000-092-1972-01	NAME PLATE:OPERATION:	1
26	000-073-7124-00	PWB ACCESSORY:SPACER:	1
27	000-000-0475-06	FLANGED HEX BOLT:FLANGE:	1
28	000-115-0605-02	HARNESS:S4:EMG-SW	1
29	000-115-0606-06	HARNESS:S4:EMG-SW	1
30	000-115-0607-00	HARNESS:S4:EMG-SW	1



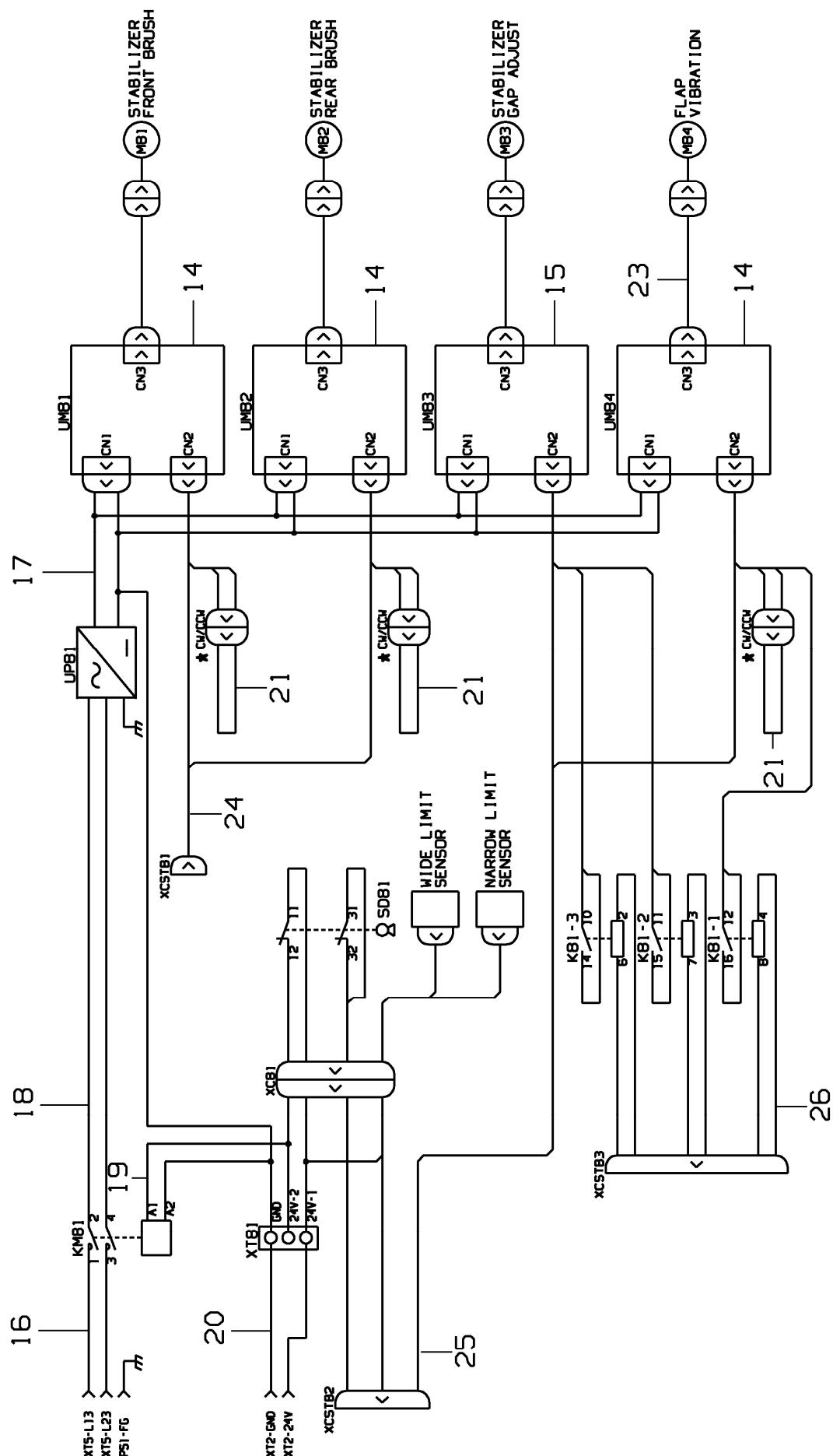
UNIT NAME	ELECTRIC UNIT:CONTROL:	DRAW NO.	4D-48579
-----------	------------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-130-2250-22	ELECTRIC UNIT:CONTROL:	
1	000-110-0765-54	CHASSIS:CONTROL:	1
2	000-110-4625-05	HARNESS:C4:POWER SUPPLY	1
3	000-110-4626-09	HARNESS:C5:POWER SUPPLY	1
4	000-110-4627-02	HARNESS:C4:POWER SUPPLY	1
5	000-095-0194-44	HARNESS:C3:POWER SUPPLY	1
6	000-106-1728-18	HARNESS:C5:POWER SUPPLY	1
7	000-094-4574-16	HARNESS:C5:POWER SUPPLY	1
8	000-145-5455-06	PWB:P-5547:A-1	1
9	000-132-1726-19	PWB:P-5548:A-1	1
10	000-132-1731-27	PWB:P-5549:A-1	1
11	000-055-6687-11	PWB:P-5475:-1	2
12	000-058-3486-01	PWB ACCESSORY:SPACER:	4
13	000-039-0386-01	THREADED ROD:HEX:MF	12
14	000-117-8224-01	TERMINAL:BLOCK:	1
15	000-094-9338-02	TERMINAL:BLOCK:	5
16	000-106-7949-25	HARNESS:C6:	1
17	000-129-7832-05	POWER SUPPLY:SWITCHING:	1
18	000-129-7833-09	POWER SUPPLY:SWITCHING:	1
19	000-132-1720-35	PWB:P-5562:A-4	2
20	000-111-6360-03	SWITCHING:HUB:	1
21	000-048-4296-05	RAIL:DIN:	1
22	000-040-3264-04	TERMINAL:BLOCK:EARTH	1
23	000-093-6576-04	THREADED ROD:HEX:MF	8
24	000-094-4584-04	TERMINAL:BLOCK:	8
25	000-055-3202-09	THREADED ROD:HEX:MF	1
26	000-107-0700-18	HARNESS:C3:PS DMU	2
27	000-110-4829-08	HARNESS:S2:5V HUB	1
28	000-064-1851-01	FILTER:FERRITE:	2
29	000-117-8316-00	HARNESS:S2:100BASE-T	1
30	000-117-8317-03	HARNESS:S2:100BASE-T	1
31	000-073-7124-00	PWB ACCESSORY:SPACER:	1
32	000-000-0475-06	FLANGED HEX BOLT:FLANGE:	1

No. 4D-43400-1



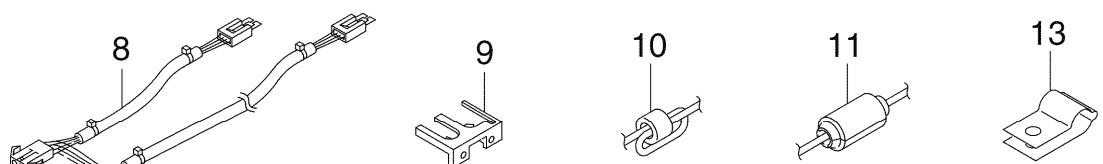
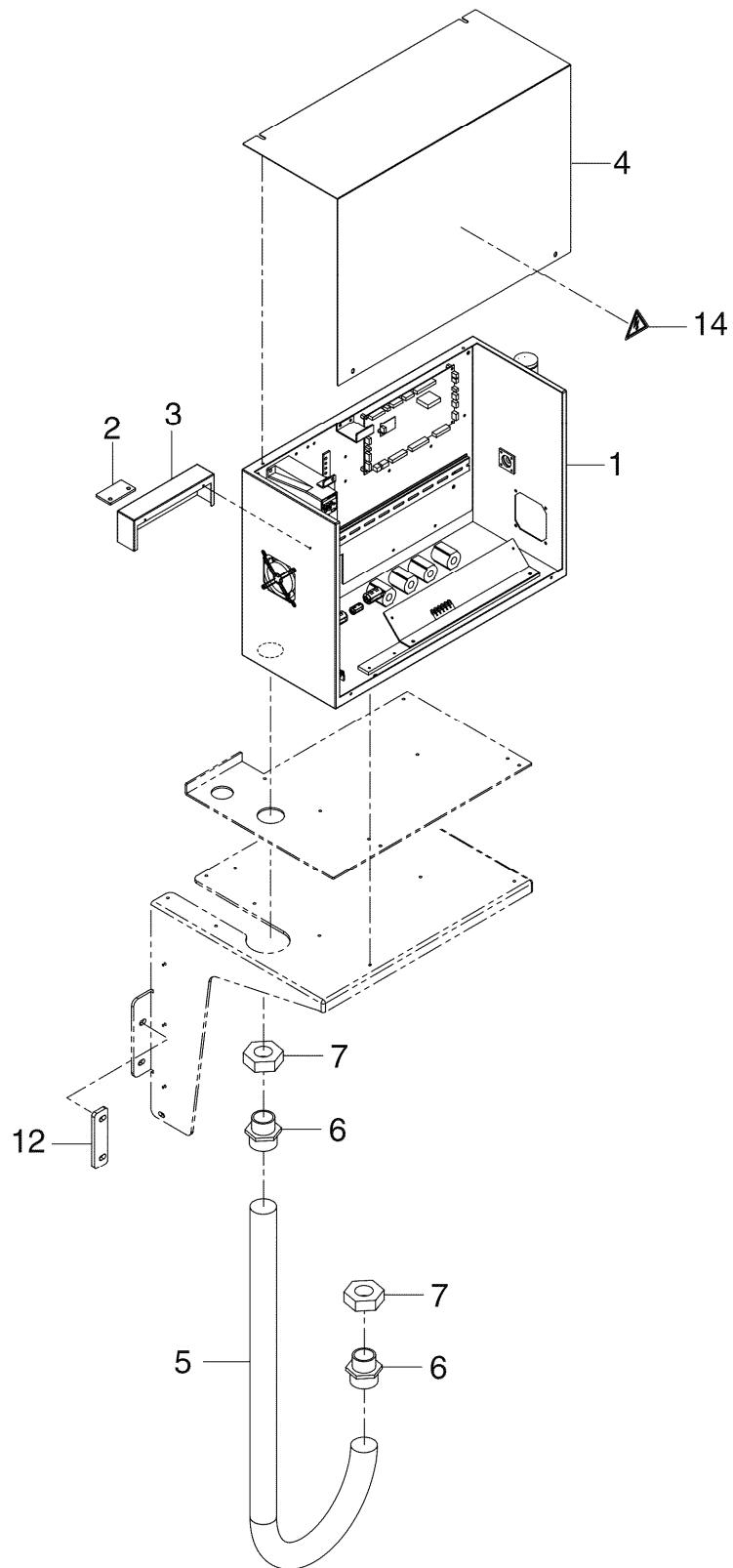
UNIT NAME	ELECTRIC UNIT:STABILIZER:	DRAW NO.	4D-43400
-----------	---------------------------	----------	----------



UNIT NAME	ELECTRIC UNIT:STABILIZER:	DRAW NO.	4D-43400
-----------	---------------------------	----------	----------

NO.

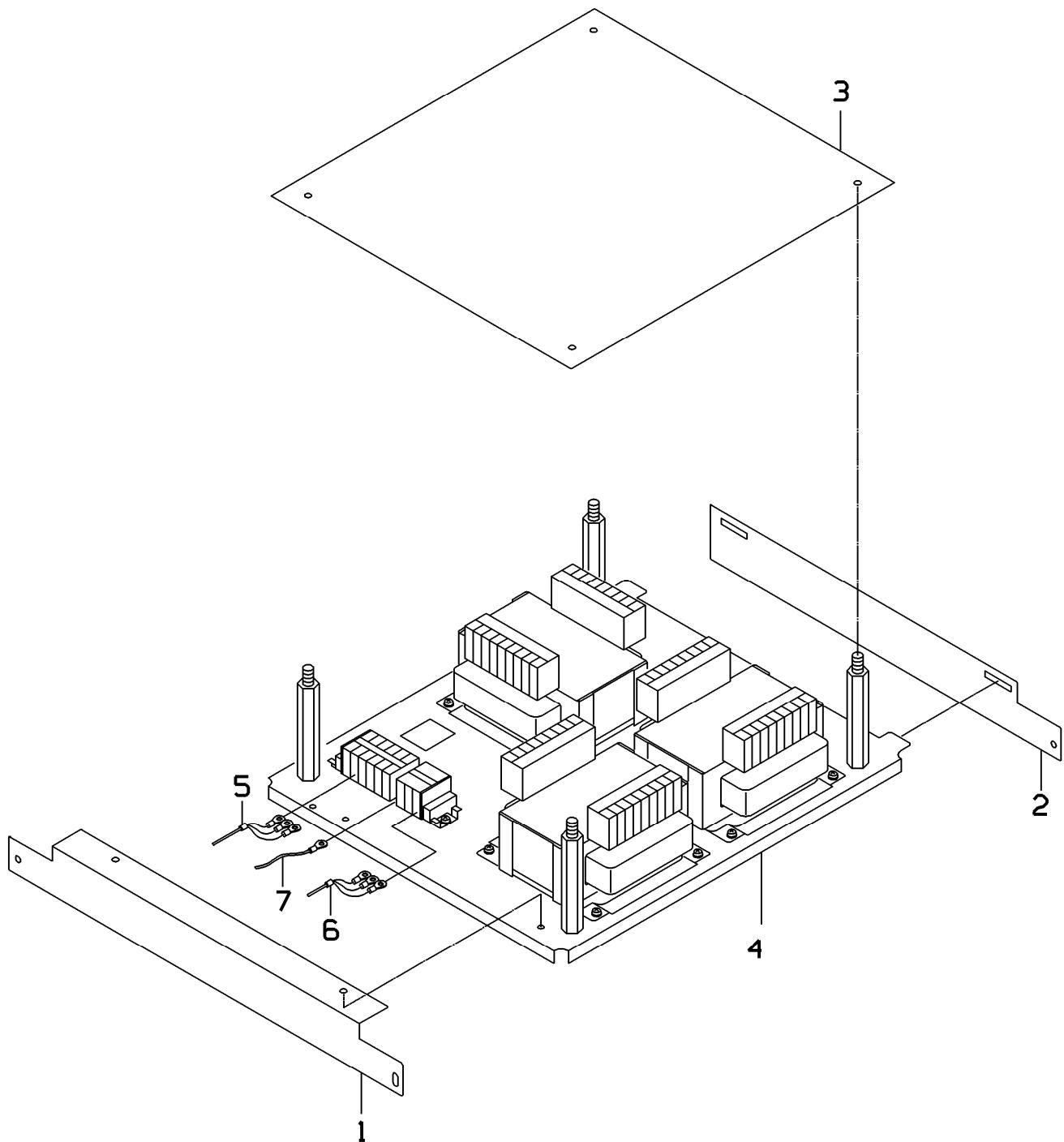
4D-54390



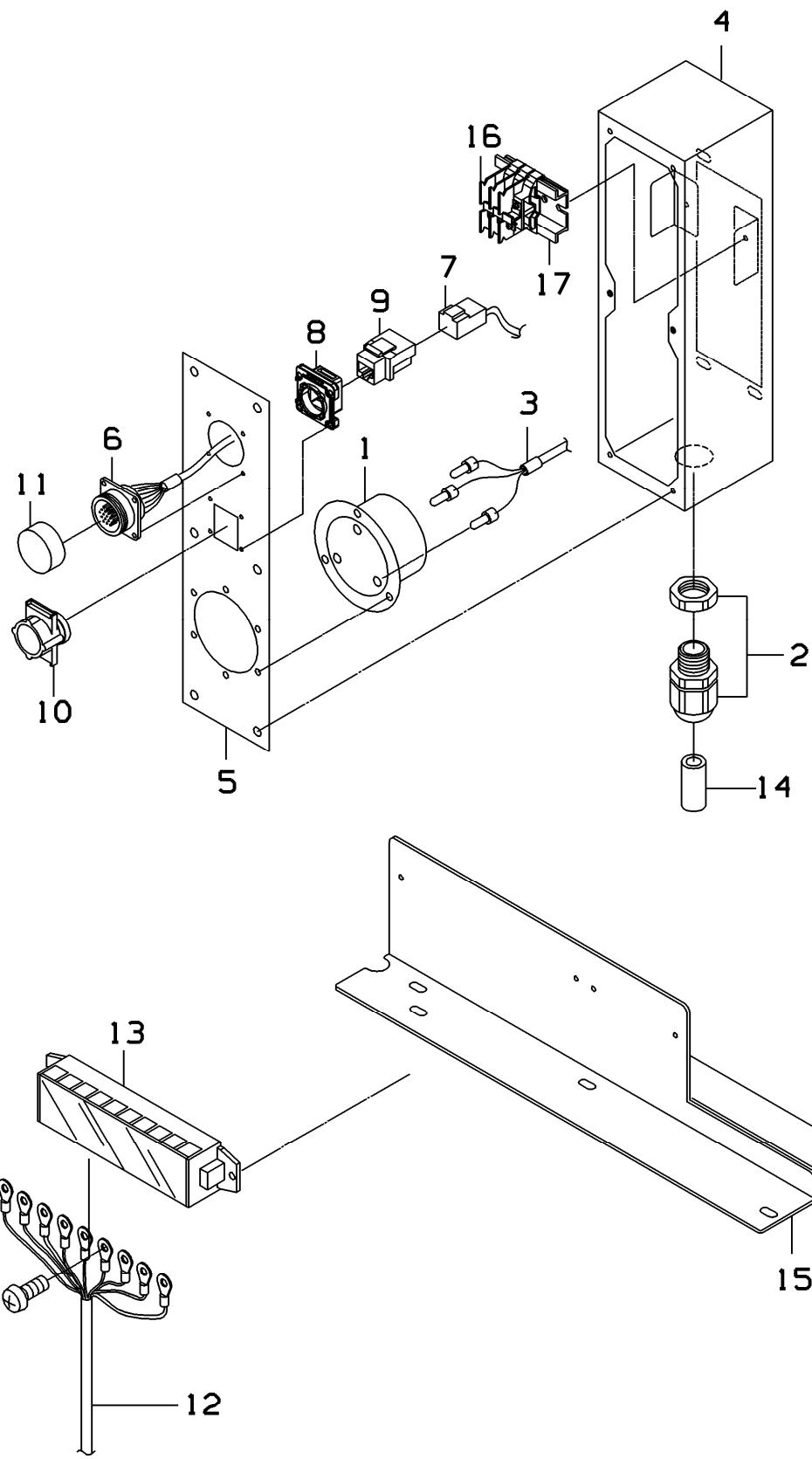
Scale 1:X



No. 4D-32959

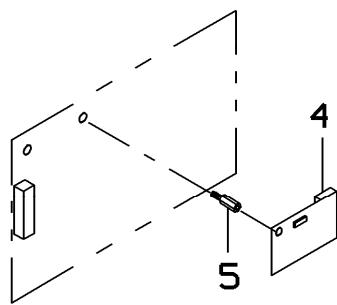
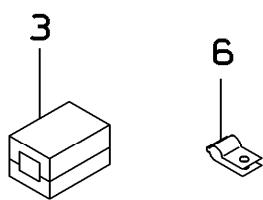
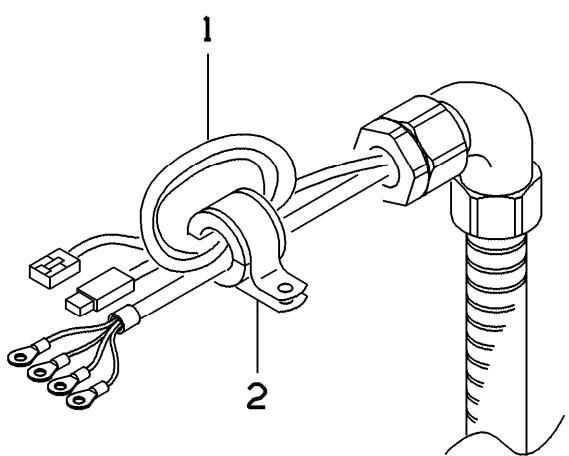
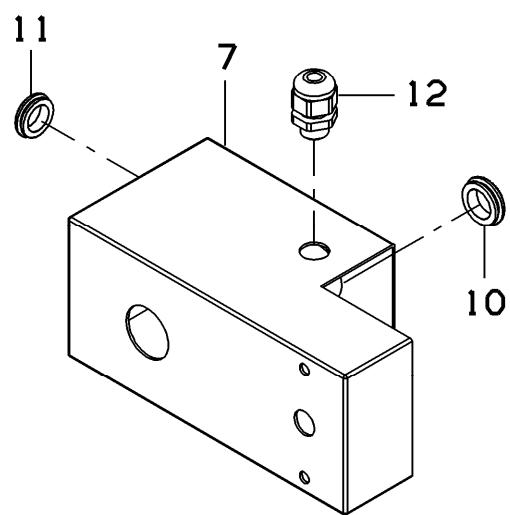
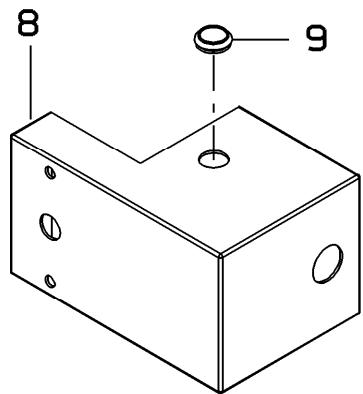


UNIT NAME	TRANSFORMER UNIT::	DRAW NO.	4D-32959
-----------	--------------------	----------	----------

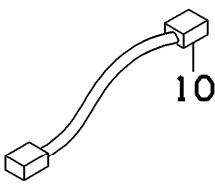
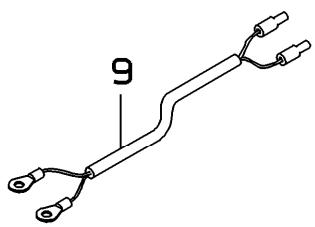
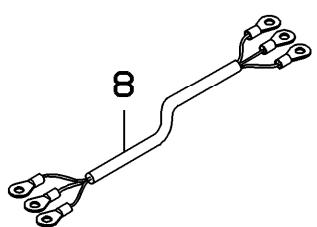
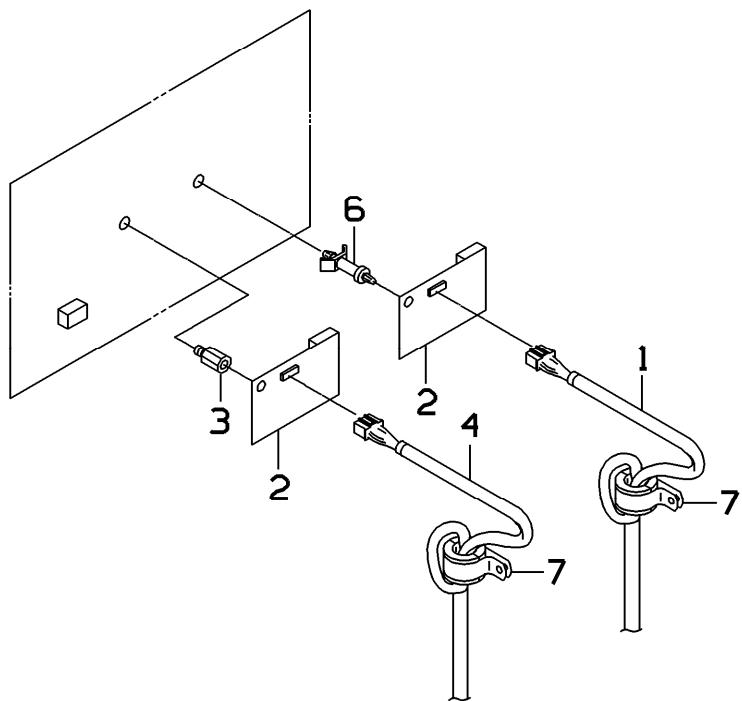




No. 4D-49674

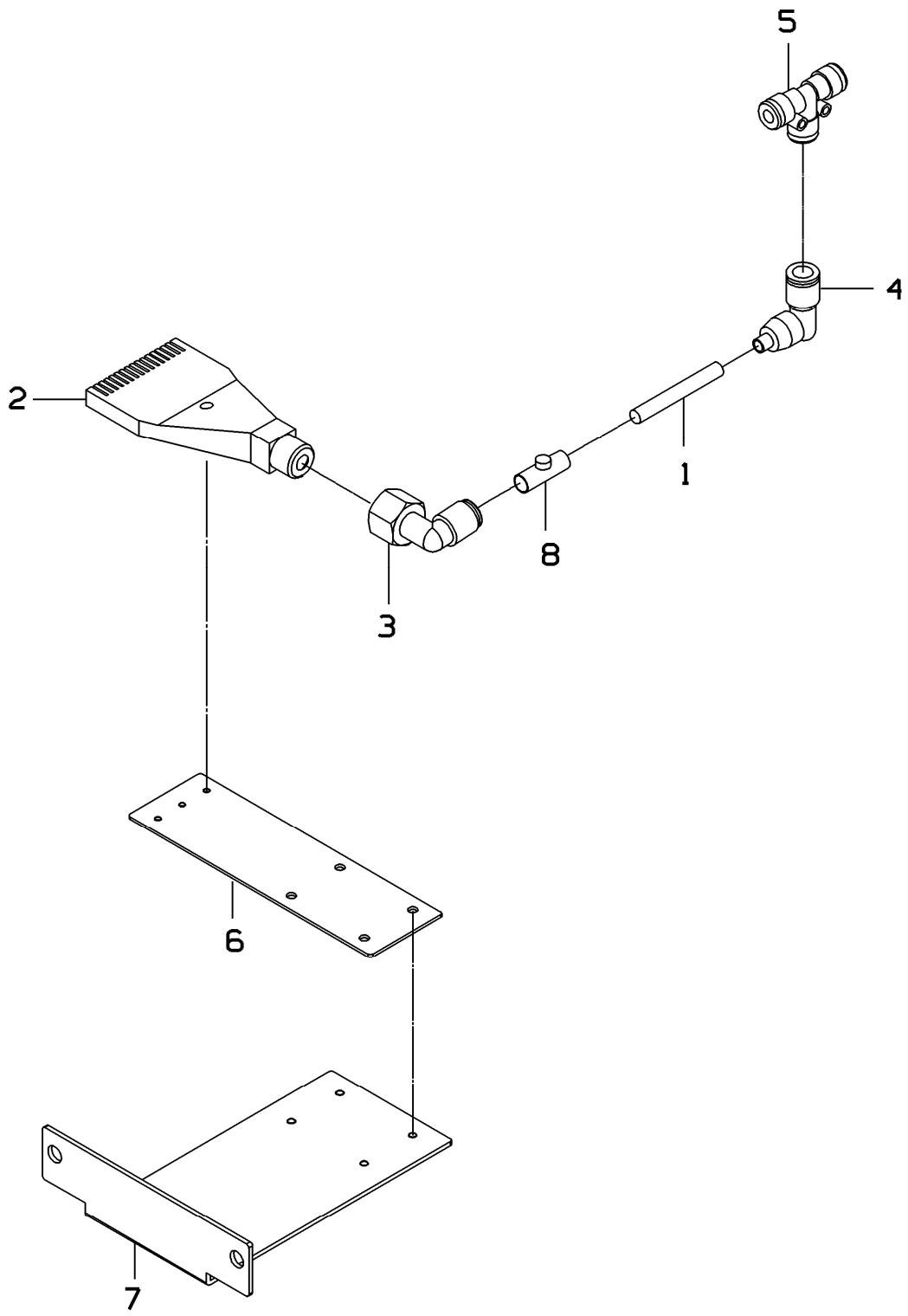


UNIT NAME	ACCESSORY:INTERLOCK:CCW	DRAW NO.	4D-49674
-----------	-------------------------	----------	----------

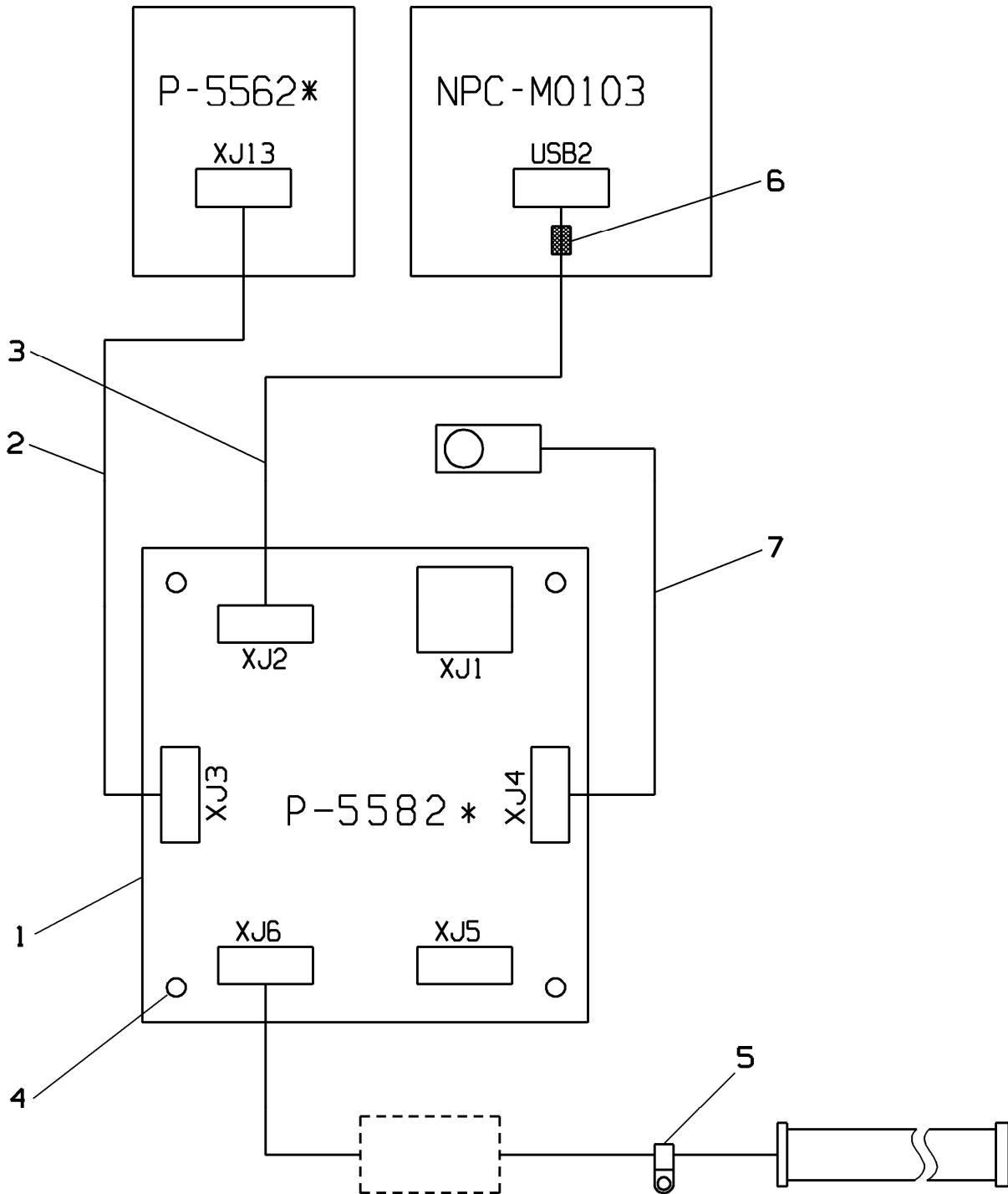


UNIT NAME	OPTION UNIT:MD-DP:	DRAW NO.	4D-35041
-----------	--------------------	----------	----------

No. 4D-44851

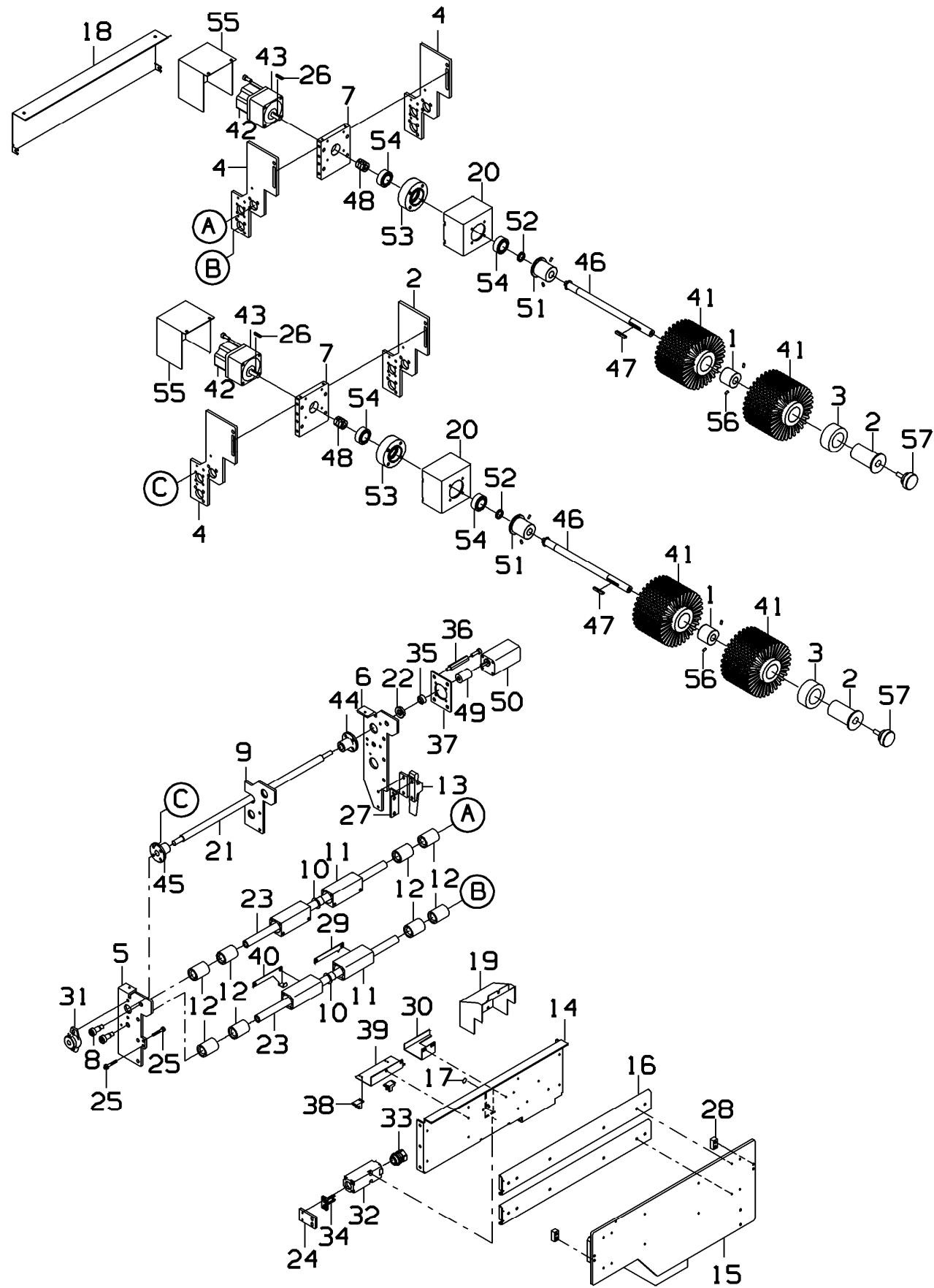


UNIT NAME	OPTION UNIT:COOLING:M3	DRAW NO.	4D-44851
-----------	------------------------	----------	----------



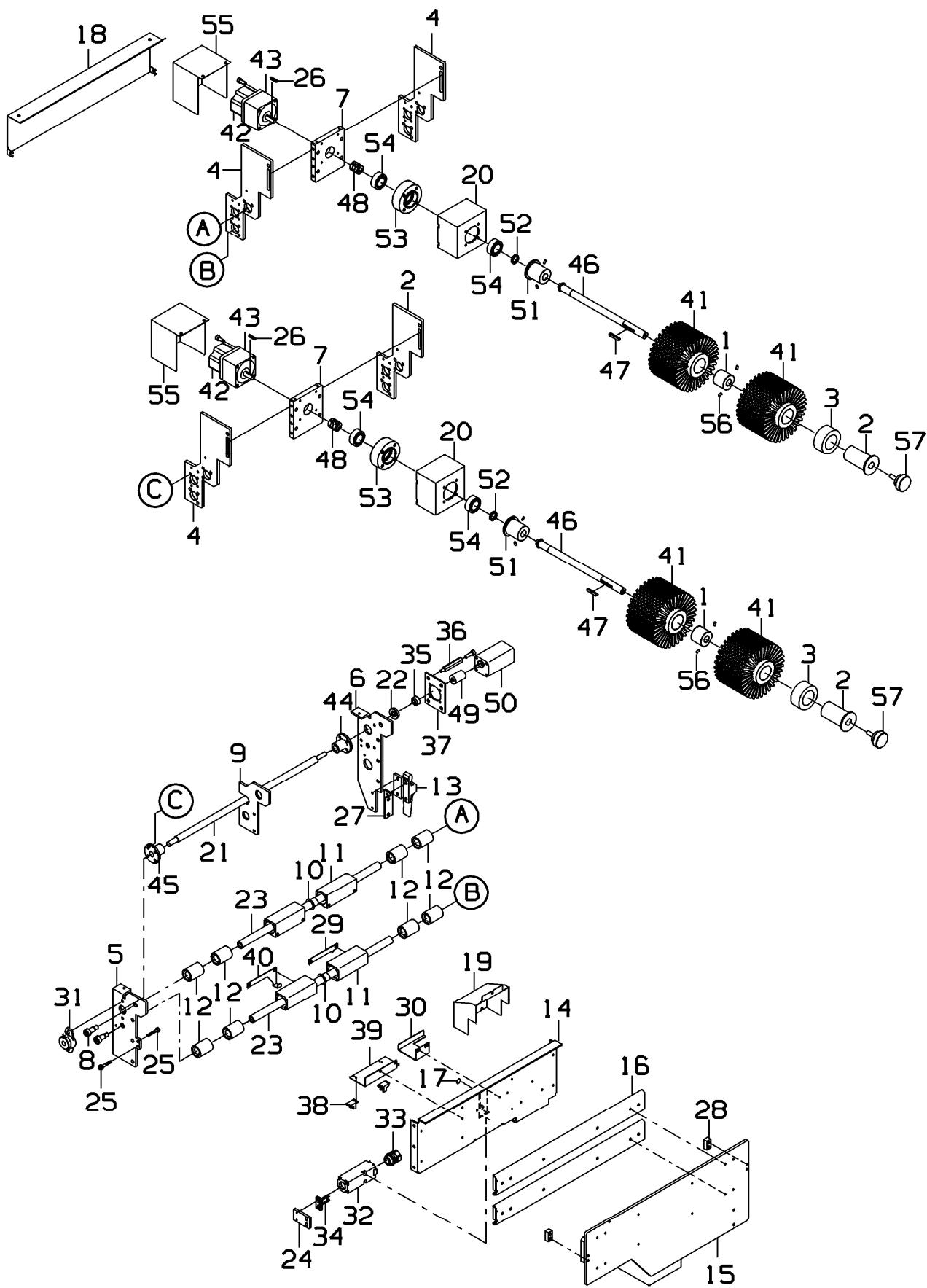
UNIT NAME	OPTION UNIT:RCU:DF CAMERA	DRAW NO.	4D-45156
-----------	---------------------------	----------	----------

No. 4D-43405



UNIT NAME	STABILIZER UNIT::	DRAW NO.	4D-43405
-----------	-------------------	----------	----------

NO.	PART CODE	PART NAME	QUANTITY
●	000-130-4363-55	STABILIZER UNIT::	
1	000-143-6740-07	COLLAR:BRUSH:	2
2	000-138-4572-08	COLLAR:BRUSH:	2
3	000-100-4676-06	COLLAR:BRUSH:	2
4	000-131-0532-12	PLATE B::	4
5	000-130-4356-01	BASE:SIDE:1	1
6	000-130-4359-11	BASE:SIDE:2	1
7	000-131-0533-07	BASE:MOTOR:	2
8	000-108-7625-05	HEX SOCKET BOLT:SHOULDER:	4
9	000-130-4082-01	PLATE B::	1
10	000-011-2573-01	BUSH:DU:FLANGE	2
11	000-123-3242-00	HOUSING:LINEAR:	4
12	000-028-1518-02	BEARING:LINEAR BUSH:	8
13	000-088-1027-05	HANDLE::	1
14	000-130-4347-09	BASE:RAIL:	1
15	000-130-4344-16	FRAME:MAIN BODY:	1
16	000-122-5872-06	RAIL:SLIDER:	2
17	000-097-8992-16	NAME PLATE::	1
18	000-130-4088-03	COVER:STABILIZER:	1
19	000-130-4075-05	COVER:HARNES:	1
20	000-131-0536-17	BRACKET:BRUSH:	2
21	000-123-6492-05	THREADED ROD:TRAPEZOIDAL:	1
22	000-000-3725-08	BEARING:RADIAL:	1
23	000-122-5535-01	SHAFT:LINEAR:	2
24	000-123-3446-02	PLATE B:KEY:	1
25	000-114-0761-03	STOPPER BOLT:WITH URETHANE:	4
26	000-057-0177-02	KEY:PARALLEL:ONE END ROUND	2
27	000-130-4083-05	L PLATE:HANDLE:	1
28	000-122-3405-11	BLOCK B:STOPPER:	2
29	000-123-3430-03	PLATE B:SCALE:	1
30	000-130-4353-01	BRACKET:SCALE:	1
31	000-005-4791-04	BEARING UNIT:FLANGE:	1
32	100-008-6147-00	SWITCH:SAFETY:	1
33	000-050-2257-03	ACCESSORY:BUSH:SKINTOP	1
34	000-072-5960-02	SWITCH::L TYPE	1
35	000-010-4118-00	COLLAR A::	1





## **PARTS MANUAL**

---

Date of Issue Mar 2017

**ISHIDA CO., LTD.**  
44, SANNO-CHO, SHOGOIN, SAKYO-KU,  
KYOTO, 606-8392 JAPAN

---