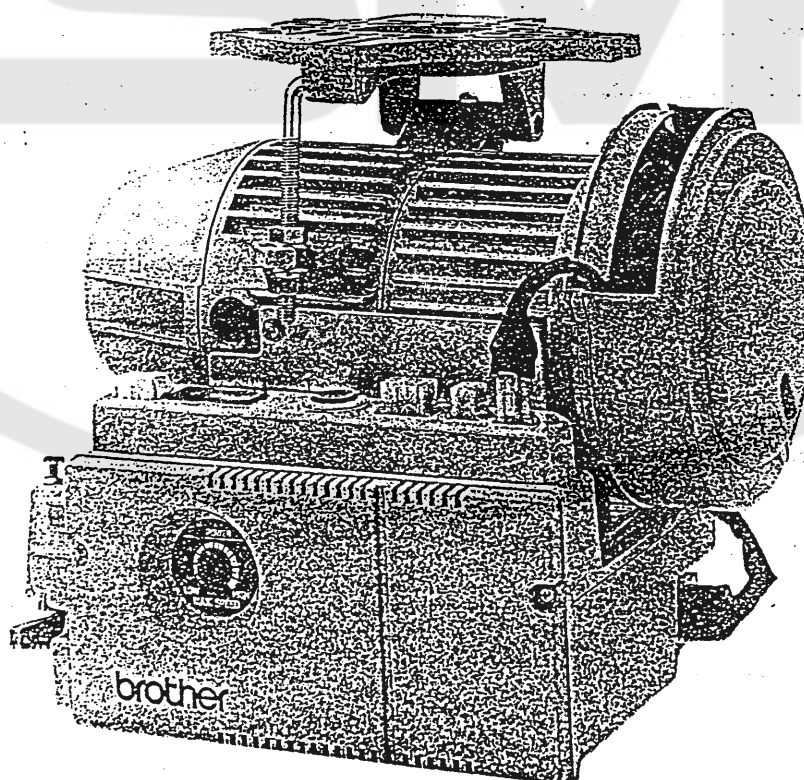


brother

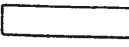
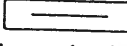
D.C. MOTOR  
MOTOR D.C.  
LE MOTEUR D.C.  
EL MOTOR D.C.

MD-826, 827 (Single-Phase Type)  
MD-836, 837 (Three-Phase Type)

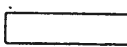
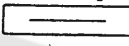
PARTS BOOK  
TEILEKATALOG  
LIVRE DES PIECES  
LIBRO DE REFERENCIA DE PIEZAS



## Notes sur l'utilisation de ce manuel de pièces détachées

1. Si le symbole  se trouve dans la colonne "Parts No. (N° de pièce)" ou dans la colonne "Assembly No. (N° jeu de pièces)", veuillez vous référer à la liste de pièces annexe page 9.
2. Le symbole  dans la colonne "N° de pièce" signifie que la pièce ne peut être fournie. Si, dans la colonne "N° jeu de pièces", il y a un numéro de nomenclature, la pièce peut être commandée comme faisant partie d'un jeu de pièces. Donc, pour toute commande, veuillez spécifier le n° du jeu de pièces.
3. Ce manuel a été fait d'après les renseignements valables au mois de Mars 1994.
4. Les pièces peuvent être sujettes à des modifications sans préavis.

## Notas para usar este Libro de Piezas

1. De haber un símbolo  junto al "Parts No. (Número de Pieza)" o en la columna del "Assembly No. (Número de juego)", habrá que mirar la lista de piezas separada de la página 9.
2. El símbolo , que se encuentra en la columna del "Número de Pieza", quiere decir que no se dispone de dicha pieza sola. Cuando, empero, hay un número en la columna del "Número de Juego", se podrá ordenar la pieza con todo el juego. Por lo tanto, será mejor hacer el pedido recurriendo al número del juego respectivo.
3. Este libro ha sido compilado basándose en los datos de que se disponía en Marzo 1994.
4. Las piezas quedan sujetas a cambios de diseño sin aviso previo.

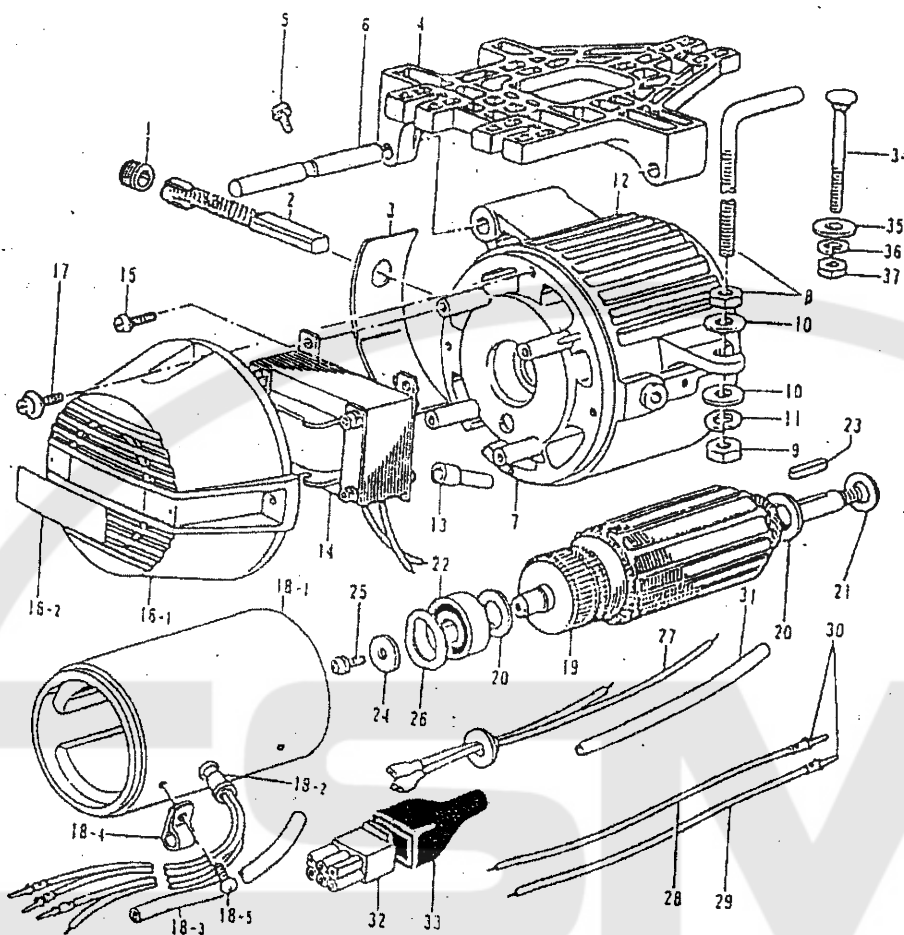
## TABLE DES MATIERES

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| B . Mécanisme du boîtier de contrôle .....           | 3  |
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| D . pédale pour<br>opération en station debout ..... | 7  |
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## INDICA

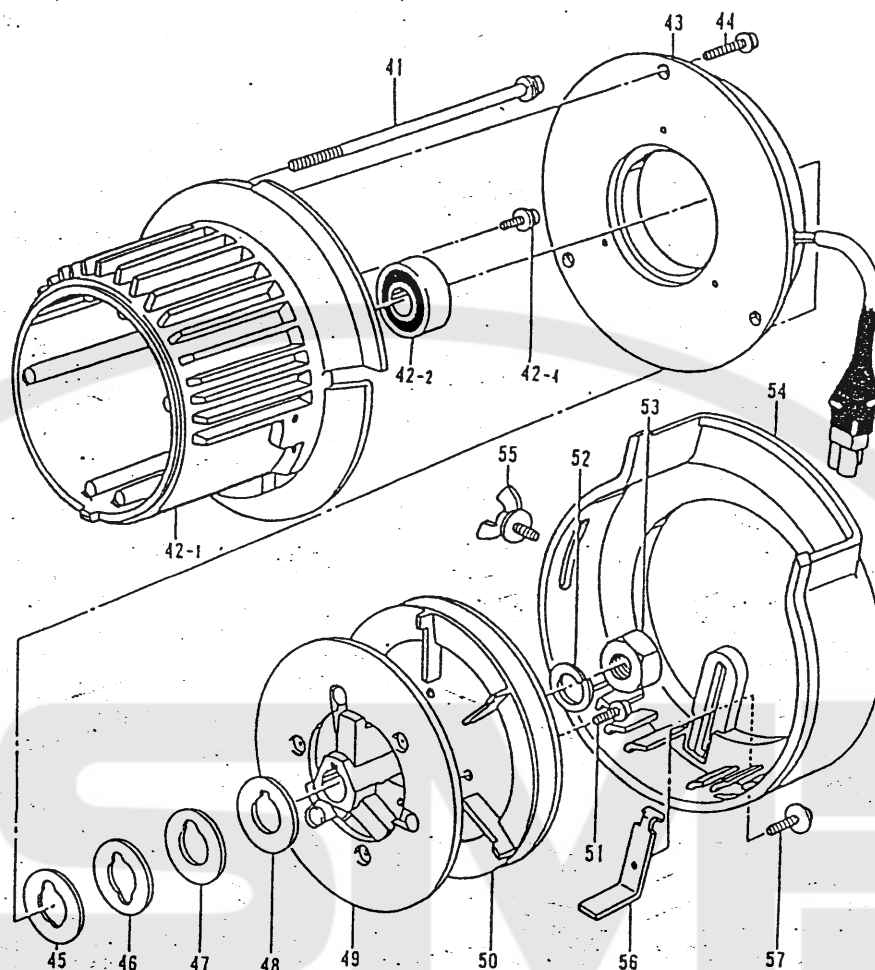
|                                           |    |
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| A . Mecanismo del motor (1) .....         | 1  |
| A . Mecanismo del motor (2) .....         | 2  |
| B . Mecanismo del caja de controles ..... | 3  |
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| D . pedal para<br>operar de pie .....     | 7  |
| LISTA DE PIEZAS ACCESORIAS .....          | 9  |
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# A. Motor mechanism



| REF. NO. | CODE       | Q'TY | NAME OF PARTS          | REF. NO. | CODE       | Q'TY | NAME OF PARTS        |
|----------|------------|------|------------------------|----------|------------|------|----------------------|
| 1        | 224475-001 | 2    | HOLDER CAP             | 18-4     | 224504-001 | 1    | CODE HOLDER #7       |
| 2        | 226992-001 | 1    | MD CARBON BRUSH ASSY   | 18-5     | 008400-805 | 1    | SCREW 4X8            |
| 3        | J01736-001 | 1    | INSULATION SHEET       | 19       | *          | 1    | ROTOR                |
| 4        | J00107-001 | 1    | MD806 BASE #2          | 20       | 224485-000 | 2    | WASHER 2X15X22ST     |
| 5        | 062061-005 | 1    | SCREW 6X10             | 21       | 224487-000 | 1    | WASHER 2.3X15X26ST   |
| 6        | 224540-001 | 1    | PIN 9.3X83             | 22       | 076202-801 | 1    | BEARING 6202ZZ #2    |
| 7        | *          | 1    | DC BRACKET ASSY(L) #3  | 23       | 231008-001 | 1    | KEY 5X5X20           |
| 8        | 210965-081 | 1    | BOLT(L) 10 ASSY        | 24       | J01673-001 | 1    | WASHER 1.6X5.1X22ST  |
| 9        | 021100-206 | 1    | NUT 2-10               | 25       | 211528-001 | 1    | SCREW 5X12           |
| 10       | 025100-236 | 2    | PLAIN WASHER 10        | 26       | 203684-001 | 1    | WAVE WASHER          |
| 11       | 028100-246 | 1    | SPRING WASHER 2-10     | 27       | J00146-001 | 1    | REACTED CODE ASSY #2 |
| 12       | *          | 1    | DC BRACKET (L) #4 ASSY | 28       | J00148-001 | 1    | TERMINAL CODE (BLUE) |
| 13       | J00074-001 | 2    | CONNECT TERMINAL CE2   | 29       | J00147-001 | 1    | TERMINAL CODE (RED)  |
| 14       | 228221-001 | 1    | REACTOR 35 MH ASSY #2  | 30       | 217133-001 | 1    | PLUG PIN PM-75       |
| 15       | 229017-001 | 2    | SCREW 4X10DA           | 31       | J00149-001 | 1    | TUBE 11X300PV        |
| 16-1     | J00112-001 | 1    | DC REACTOR COVER #3    | 32       | 219582-001 | 1    | 6P PLUG PM-N         |
| 16-2     | —          | 1    | NAME PLATE             | 33       | 219603-001 | 1    | PLUG COVER #11       |
| 17       | 215081-001 | 1    | SCREW 4X10D            | 34       | 222372-001 | 3    | BOLT 8X70            |
| 18       | 230431-001 | 1    | FRAME ASSY #2          | 35       | 025080-336 | 3    | WASHER 8             |
| 18-1     | 230432-001 | 1    | YOKE ASSY #3           | 36       | 028080-246 | 3    | SPRING WASHER 2-8    |
| 18-2     | 229335-001 | 1    | THERMISTOR #5          | 37       | 021080-206 | 3    | NUT 2-8              |
| 18-3     | 226671-001 | 1    | TUBE 150X65            |          |            |      |                      |

A. Motor mechanism (2) / Motors (2) /  
M canisme du moteur (2) / Mecanismo del motors (2)

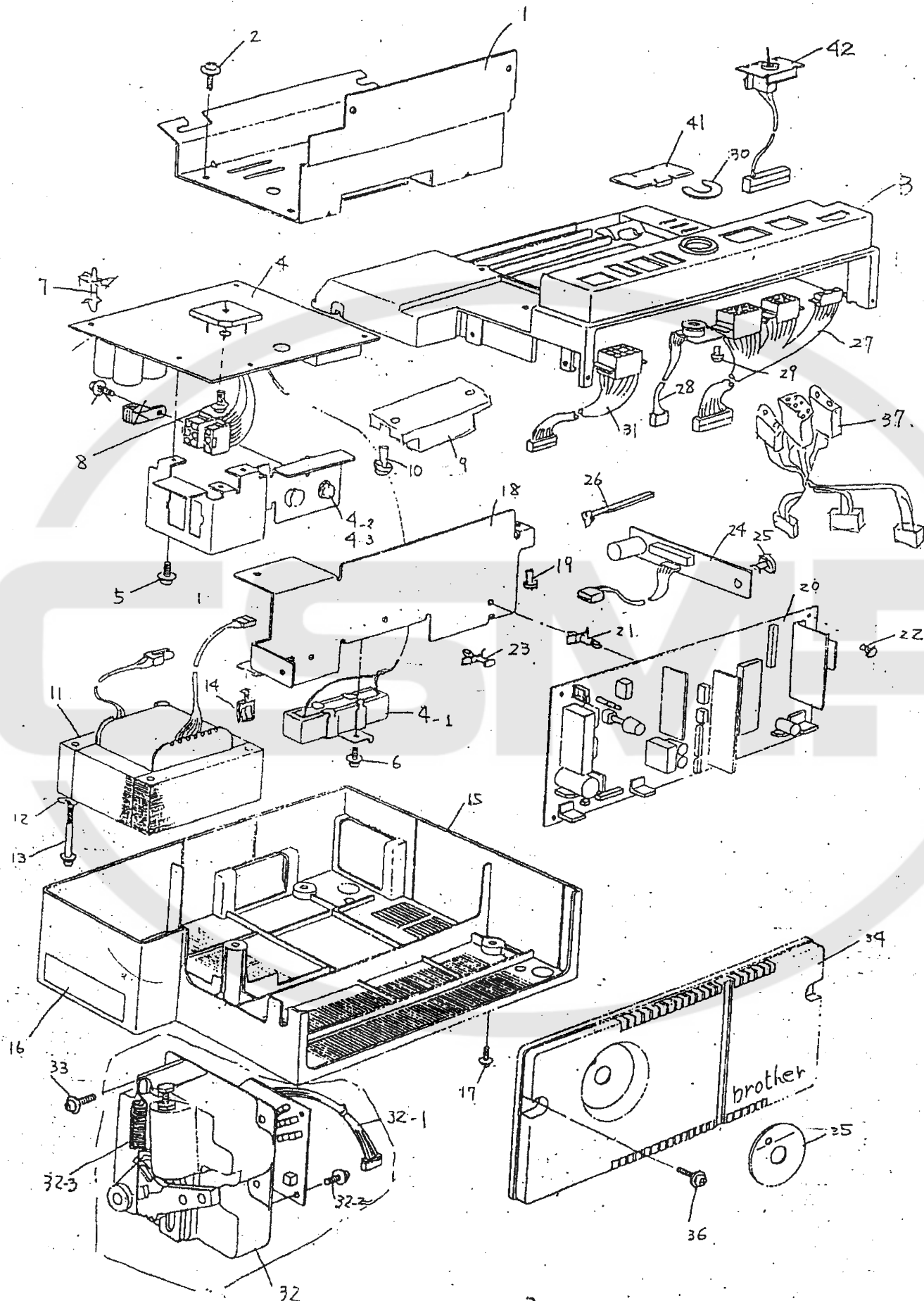


| REF. NO. | CODE       | Q' TY | NAME OF PARTS          | REF. NO. | CODE       | Q' TY | NAME OF PARTS            |
|----------|------------|-------|------------------------|----------|------------|-------|--------------------------|
| 41       | 228216-001 | 4     | SCREW 6X150D           | 48       | 224503-001 | 2     | WASHER 0.3X15.1X30ST     |
| 42       | J80319-001 | 1     | DC BRACKET (R) #3 ASSY | 49       | 231013-001 | 1     | BRAKE (A30) AMATURE ASSY |
| 42-1     |            | 1     | DC BRACKET (R) #3      | 50       | *          | 1     | PULLEY                   |
| 42-2     | 076202-801 | 1     | BEARING 6202ZZ #2      | 51       | 211528-001 | 3     | SCREW 5X12               |
| 42-4     | J00353-001 | 1     | SCREW 5X14DB           | 52       | 237641-001 | 1     | SPRING WASHER 14         |
| 43       | J00130-001 | 1     | BRAKE (A30) STATOR     | 53       | 021140-305 | 1     | NUT 14                   |
| 44       | 211528-001 | 3     | SCREW 5X12             | 54       | J00106-001 | 1     | DC BELT COVER #20        |
| 45       | 222753-000 | 3     | WASHER 0.15X15.1X30ST  | 55       | J00143-001 | 2     | WING BOLT 5X10           |
| 46       | 219517-000 | 3     | WASHER 0.1X15.1X30ST   | 56       | J00351-001 | 1     | BELT CLAMP PLATE 2       |
| 47       | 231458-001 | 2     | WASHER 0.12X15.1X30ST  | 57       | 224508-001 | 1     | SCREW 4X10DC             |

DIFFERENT PARTS LIST

| EXHIBENT PARTS LIST |               |                                                      |            |            |            |            |            |
|---------------------|---------------|------------------------------------------------------|------------|------------|------------|------------|------------|
| REF. NO.            | NAME OF PARTS | MD-8 2 6                                             | MD-8 3 6   |            | MD-8 2 7   | MD-8 3 7   |            |
|                     |               | 100V~240V                                            | 200V~240V  | 380V~415V  | 100V~240V  | 200V~240V  | 380V~415V  |
|                     | MD MOTOR      | J80457-001                                           | J80459-001 | J80460-001 | J80458-001 | J80461-001 | J80462-001 |
| 12                  | DC BRACKET(L) | J00109-001                                           |            | J00142-001 | J00109-001 |            | J00142T001 |
| 19                  | ROTOR         | 231004-001                                           |            | 231018-001 | 231006-001 |            | 231007-001 |
| 50                  | PULY M 80-1   | 228840-000<br>228237-001<br>228839-001<br>231017-001 |            |            |            |            |            |
|                     | M 90-1        |                                                      |            |            |            |            |            |
|                     | M105-2        |                                                      |            |            |            |            |            |
|                     | M125-2        |                                                      |            |            |            |            |            |

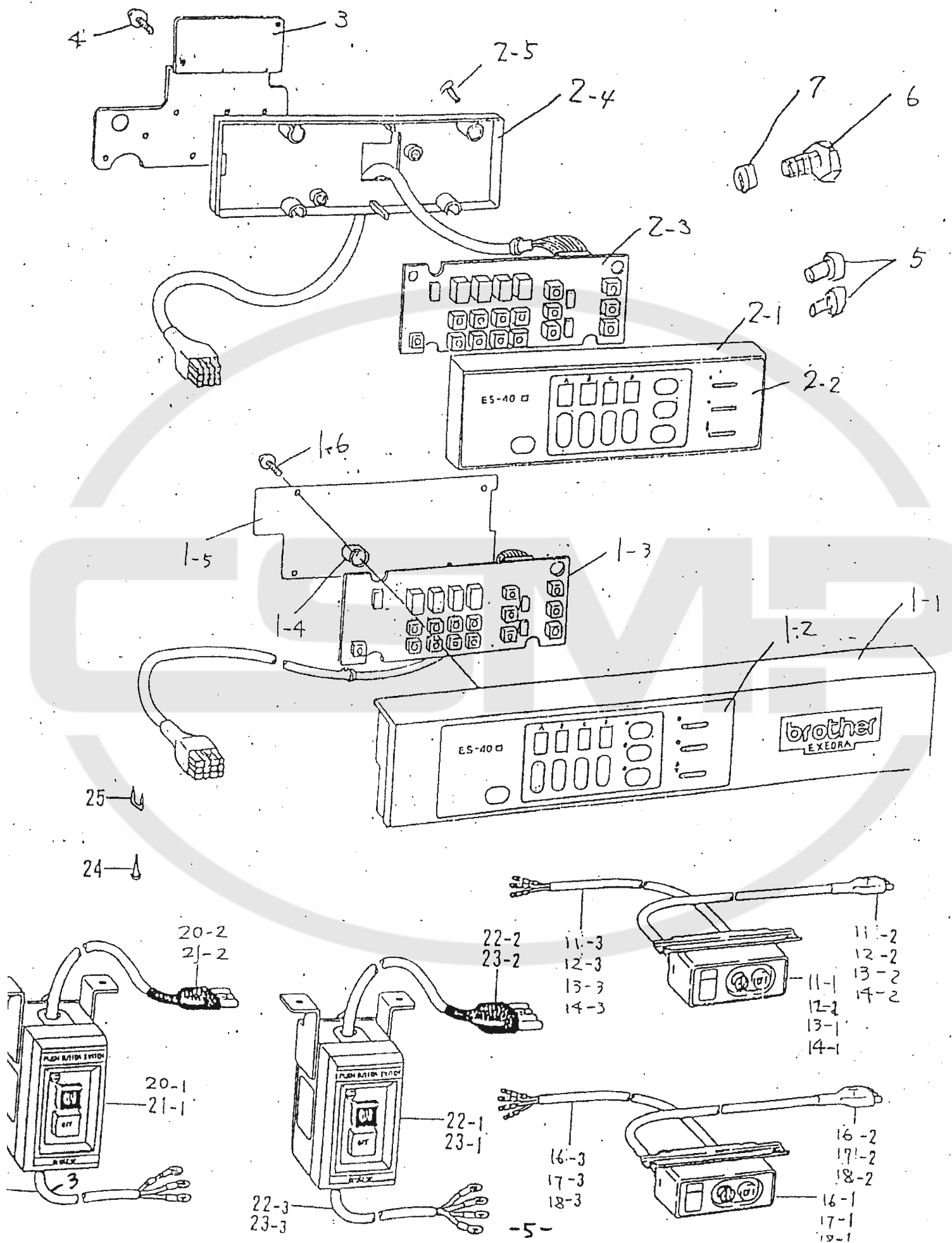
3. Control box / Schaltkasten / Mécanisme du boîtier de contrôle /  
Mecanismo del caja de controles



| REF. NO. | CODE                  | Q'TY | NAME OF PARTS         | REF. NO. | CODE       | Q'TY | NAME OF PARTS         |
|----------|-----------------------|------|-----------------------|----------|------------|------|-----------------------|
| 1        | J01880-001            | 1    | INSTALL PLATE#2NET    | 22       | 229017-001 | 2    | SCREW 4X10DA          |
| 2        | J00353-001            | 7    | SCREW 5X14DB          | 23       | J01892-001 | 1    | HOLDER GPS-6S         |
| 3        | J01864-001            | 1    | TOP COVER#NET         | 24       | J01824-001 | 1    | CR CIRCUIT UNIT       |
| 4        | *                     | 1    | POWER CIRCUIT UNIT D  | 25       | 229017-001 | 1    | SCREW 4X10DA          |
| 4-1      | *                     | 1    | CEMENT FILLED         | 26       | J01463-001 | 1    | TYING BAND 3.5X150    |
| 4-2      | *                     | 2    | FUSE HOLDER#2         | 27       | J01816-001 | 1    | PNET-T PLUG UNIT      |
| 4-3      | *                     | 2    | FUSE                  | 28       | J01817-001 | 1    | SYCN CIRCUIT UNIT     |
| 5        | 229017-001            | 1    | SCREW 4X10DA          | 29       | 229017-001 | 1    | SCREW 4X10DA          |
| 6        | 229017-001            | 1    | SCREW 4X10DA          | 30       | J01860-001 | 1    | RETAINING RING C16    |
| 7        | J00915-001            | 3    | HOLDER KGLS-12S       | 31       | J01823-001 | 1    | OP PLUG UNIT          |
| 8        | J00494-001            | 2    | SCREW 4X14DA          | 32       | *          | 1    | TREADLE UNIT NET      |
| 9        | *                     | 1    | TRM                   | 32-1     | *          | 1    | P-S CIRCUIT UNIT      |
| 10       | J00179-001            | 2    | SCREW 5x12DA          | 32-2     | 229017-001 | 1    | SCREW 4X10DA          |
| 11       | *                     | 1    | TRANSFORMER           | 32-3     | J00649-001 | 1    | SPRING 12.6X86        |
| 12       | 203878-003            | 1    | TOOTHED LOCK WASHER 4 | 33       | J00353-001 | 3    | SCREW 5X14DB          |
| 13       | J02062-001            | 2    | SCREW 4X55DA          | 34       | J01883-001 | 1    | FRONT COVER #NET2     |
| 14       | J01354-001            | 1    | WIRE SADOLE LWS-3S    | 35       | J01301-001 | 1    | VR LABEL #NET         |
| 15       | J01866-001            | 1    | UNDER COVER#2         | 36       | 229017-001 | 2    | SCREW 4X10DA          |
| 16       | *                     | 1    | NAME PLATE            | 37       | J02049-001 | 1    | CONNECTOR#NET(OPTION) |
| 17       | 215081-001            | 3    | SCREW 4X10DB          | 41       | J00048-001 | 1    | PLUG CAP              |
| 18       | J01884-001            | 1    | SETTING PLATE#2       | 42       | J01927-001 | 1    | N,P WITCH ASSY        |
| 19       | 229017-001            | 2    | SCREW 4X10DA          |          |            |      |                       |
| 20       | <del>J00446-001</del> | 1    | CONTROL CIRCUIT UNIT  |          |            |      |                       |
| 21       | J00025-001            | 2    | HOLDER SPLS-6         |          |            |      |                       |

P99表参照

TRANSISTOR SCHEDA 1DI30F-100 = 2336 44001

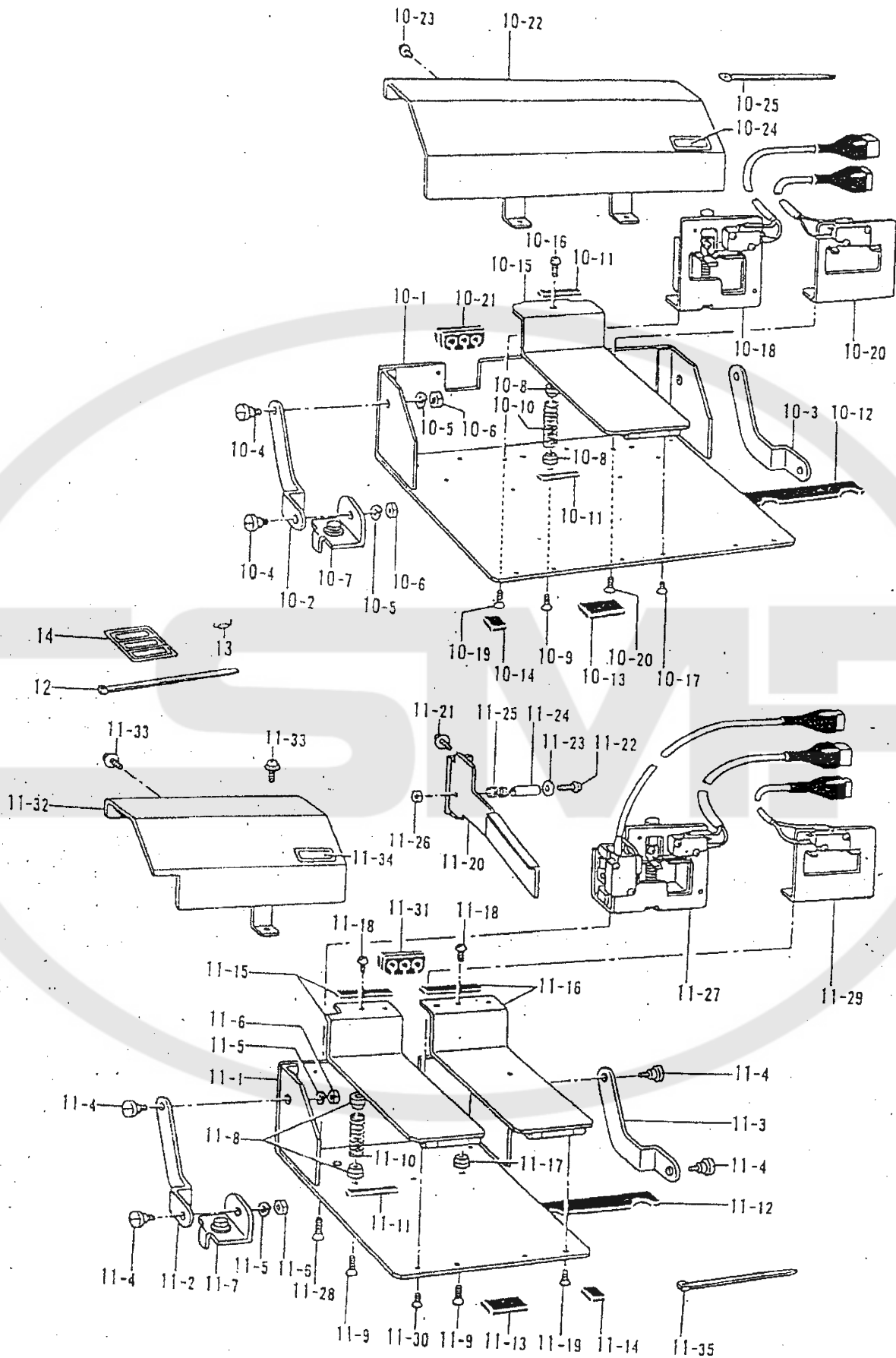


| REF. NO. | CODE       | Q' TY | NAME OF PARTS         | REF. NO. | CODE       | Q' TY | NAME OF PARTS           |
|----------|------------|-------|-----------------------|----------|------------|-------|-------------------------|
| 1        | J80469-001 | 1     | ES-40 OPERATION PANEL | 13       | J01244-001 | 1     | 2PSWITCH ASSEMBLY#31-2  |
| 1-1      | J01869-001 | 1     | PANEL CASE (BI)       | 13-1     | J00027-001 | 1     | 2PSWITCH#19-2           |
| 1-2      | J01870-001 | 1     | ES-40 PLATE           | 13-2     | 229238-001 | 1     | 3P PLUG ASSEMBLY#10-2   |
| 1-3      | J01871-001 | 1     | OP CIRCUIT UNIT       | 13-3     | 229239-001 | 1     | ELECTRIC SUPPLY CORD#2  |
| 1-4      | J01872-001 | 4     | SETTING COLLAR        | 14       | 236127-001 | 1     | 2PSWITCH ASSEMBLY#19-7  |
| 1-5      | J01873-001 | 1     | PANEL REAR SEET       | 14-1     | J00027-001 | 1     | 2PSWITCH#19-2           |
| 1-6      | 037301-016 | 4     | SCREW 3X10            | 14-2     | 236128-001 | 1     | 3P PLUG ASSEMBLY#10-11  |
| 2        | J80470-001 | 1     | ES-40 OPERATION PANEL | 14-3     | 236129-001 | 1     | ELECTRIC SUPPLY CORD#4  |
| 2-1      | J01875-001 | 1     | PANEL FRONT CASE      | 16       | 229250-001 | 1     | 2PSWITCH ASSEMBLY#11-3  |
| 2-2      | J01870-001 | 1     | ES-40 PLATE           | 16-1     | 238084-001 | 1     | 2PSWITCH#11-2           |
| 2-3      | J01871-001 | 1     | OP CIRCUIT UNIT       | 16-2     | 228272-001 | 1     | 4P PLUG ASSEMBLY#11     |
| 2-4      | J01877-001 | 1     | PANEL REAR CASE       | 16-3     | 224513-001 | 1     | ELECTRIC SUPPLY CORD#13 |
| 2-5      | 037301-016 | 4     | SCREW 3X10            | 17       | 230545-001 | 1     | 3PSWITCH ASSEMBLY#11-8  |
| 3        | J02040-001 | 1     | HB-SETTING PLATE#11   | 17-1     | 238084-001 | 1     | 3PSWITCH#11-2           |
| 4        | 215081-002 | 2     | SCREW 4X10DB          | 17-2     | 230546-001 | 1     | 4P PLUG ASSEMBLY#11-5   |
| 5        | 062681-212 | 2     | SCREW 435-40X12       | 17-3     | 205476-001 | 1     | ELECTRIC SUPPLY CORD#12 |
| 6        | J02064-001 | 1     | BOLT 794-24X20        | 18       | 229244-001 | 1     | 3PSWITCH ASSEMBLY#11-6  |
| 7        | J02065-001 | 1     | COLLAR 8X12X7         | 18-1     | 238084-001 | 1     | 3PSWITCH#11-2           |
|          |            |       |                       | 18-2     | 229245-001 | 1     | 4P PLUG ASSEMBLY#11-3   |
|          |            |       |                       | 18-3     | 229246-001 | 1     | ELECTRIC SUPPLY CORD#15 |
|          |            |       |                       | 20       | J02045-001 | 1     | 2PSWITCH ASSEMBLY#24    |
|          |            |       |                       | 20-1     | 223739-001 | 1     | 2PSWITCH#16             |
|          |            |       |                       | 20-2     | 235533-001 | 1     | 3P PLUG ASSEMBLY#10-4   |
|          |            |       |                       | 20-3     | 235534-001 | 1     | ELECTRIC SUPPLY CORD    |
|          |            |       |                       | 21       | J02046-001 | 1     | 2PSWITCH ASSEMBLY#25    |
|          |            |       |                       | 21-1     | 231855-001 | 1     | 2PSWITCH#22             |
|          |            |       |                       | 21-2     | 231856-001 | 1     | 3P PLUG ASSEMBLY#10-9   |
|          |            |       |                       | 21-3     | 229239-001 | 1     | ELECTRIC SUPPLY CORD#2  |
|          |            |       |                       | 22       | J02047-001 | 1     | 3PSWITCH ASSEMBLY#15    |
|          |            |       |                       | 22-1     | 223738-001 | 1     | 3PSWITCH#9-3            |
|          |            |       |                       | 22-2     | 230444-001 | 1     | 4P PLUG ASSEMBLY#11-4   |
|          |            |       |                       | 22-3     | 230445-001 | 1     | ELECTRIC SUPPLY CORD    |
|          |            |       |                       | 23       | J02048-001 | 1     | 3PSWITCH ASSEMBLY#16    |
|          |            |       |                       | 23-1     | 215504-001 | 1     | 3PSWITCH#9              |
|          |            |       |                       | 23-2     | 230550-001 | 1     | 4P PLUG ASSEMBLY#11-6   |
|          |            |       |                       | 23-3     | 230551-001 | 1     | ELECTRIC SUPPLY CORD#17 |
|          |            |       |                       | 24       | S03816-001 | 2     | SCREW 4.5X16            |
|          |            |       |                       | 25       | 200190-001 | 5     | STEPLE                  |

| REF. NO. | CODE       | Q' TY | NAME OF PARTS          |
|----------|------------|-------|------------------------|
| 11       | 229240-001 | 1     | 2PSWITCH ASSEMBLY#19-3 |
| 11-1     | J00027-001 | 1     | 2PSWITCH#19-2          |
| 11-2     | 228243-001 | 1     | 3P PLUG ASSEMBLY#10    |
| 11-3     | 229241-001 | 1     | ELECTRIC SUPPLY CORD   |
| 12       | 230542-001 | 1     | 2PSWITCH ASSEMBLY#19-4 |
| 12-1     | J00027-001 | 1     | 2PSWITCH#19-2          |
| 12-2     | 230543-001 | 1     | 3P PLUG ASSEMBLY#10-3  |
| 12-3     | 230544-001 | 1     | ELECTRIC SUPPLY CORD#4 |

D. pedal for standing operation / Fusstritt für stehenden Arbeitsplatz /  
pédale pour opération en station debò / pedal para operar de pie



| REF. NO. | CODE       | Q'TY | NAME OF PARTS          |
|----------|------------|------|------------------------|
| 10       | *          | 1    | PEDAL ASSEMBLY         |
| 10-1     | 233217-002 | 1    | PEDAL BASE ASSEMBLY    |
| 10-2     | 233221-003 | 1    | ARM CLAMP#L            |
| 10-3     | 233222-003 | 1    | ARM CLAMP#R            |
| 10-4     | 233223-001 | 4    | STUD SCTRE 8X16.7      |
| 10-5     | 028080-246 | 4    | SPRING WASHER 2-8      |
| 10-6     | 021080-302 | 4    | NUT 8                  |
| 10-7     | 233224-002 | 2    | PEDAL CLAMP ASSEMBLY   |
| 10-8     | 233231-001 | 6    | SPRING CUSHION#23      |
| 10-9     | 061401-205 | 3    | SCREW 4X12             |
| 10-10    | 233233-001 | 3    | SPRING 1.2X12X57       |
| 10-11    | 233232-001 | 6    | RUBBER PLATE1.6X5X45   |
| 10-12    | 233228-001 | 1    | RUBBER PLATE3.2X20X286 |
| 10-13    | 233229-001 | 2    | RUBBER PLATE3.2X20X46  |
| 10-14    | 233230-001 | 2    | RUBBER PLATE3.2X20X15  |
| 10-15    | 233225-001 | 3    | PEDAL ASSEMBLY         |
| 10-16    | 217093-001 | 3    | SCREW 4X12D            |
| 10-17    | 061400-402 | 6    | SCREW 4X4              |
| 10-18    | *          | 1    | SPEED CONTROLLER       |
| 10-19    | 061401-205 | 6    | SCREW 4X12             |
| 10-20    | 233246-001 | 2    | M. SWITCH ASSEMBLY     |
| 10-21    | 233250-001 | 1    | F.P BUSH               |
| 10-22    | 233251-003 | 1    | PEDAL COVER            |
| 10-23    | 233235-001 | 4    | SCREW 4X6DA            |
| 10-24    | *          | 1    | IDENTIFICATION LABEL   |
| 10-25    | 228475-000 | 2    | TYING BAND 1.9X80      |

| REF. NO. | VARIABLE TYPE | TWO SPEED TYPE |
|----------|---------------|----------------|
| 10       | 291661-043    | 291662-003     |
| 10-18    | 233234-001    | 233494-001     |
| 10-24    | 233487-002    | 233488-002     |

| REF. NO. | CODE       | Q'TY | NAME OF PARTS          |
|----------|------------|------|------------------------|
| 11       | 385266-040 | 1    | PEDAL (THREAD TRIM     |
| 11-1     | 238194-001 | 1    | PEDAL BASE ASSEMBLY#5  |
| 11-2     | 233221-003 | 1    | ARM CLAMP#L            |
| 11-3     | 233222-003 | 1    | ARM CLAMP#R            |
| 11-4     | 233223-001 | 4    | STUD SCTRE 8X16.7      |
| 11-5     | 028080-246 | 4    | SPRING WASHER 2-8      |
| 11-6     | 021080-302 | 4    | NUT 8                  |
| 11-7     | 233224-002 | 2    | PEDAL CLAMP ASSEMBLY   |
| 11-8     | 233231-001 | 2    | SPRING CUSHION#23      |
| 11-9     | 061401-205 | 2    | SCREW 4X12             |
| 11-10    | 233233-001 | 2    | SPRING 1.2X12X57       |
| 11-11    | 233232-001 | 2    | RUBBER PLATE1.6X5X45   |
| 11-12    | S14823-001 | 1    | RUBBER PLATE3.2X20X186 |
| 11-13    | 233229-001 | 1    | RUBBER PLATE3.2X20X46  |
| 11-14    | 233230-001 | 2    | RUBBER PLATE3.2X20X15  |
| 11-15    | 238186-001 | 1    | PEDAL ASSEMBLY (SPEED) |
| 11-16    | 238188-001 | 1    | PEDAL ASSEMBLY PRESSER |
| 11-17    | 233231-001 | 2    | SPRING CUSHION#23      |
| 11-18    | 217093-001 | 2    | SCREW 4X12D            |
| 11-19    | 061400-402 | 4    | SCREW 4X4              |
| 11-20    | 238191-001 | 1    | PEDAL TRIMMER ASS. #2  |
| 11-21    | 225534-001 | 2    | SCREW 4X8DA            |
| 11-22    | 062402-005 | 1    | SCREW 4X20             |
| 11-23    | 025040-335 | 1    | WASHER 4               |
| 11-24    | J00021-001 | 1    | TUBE T5X12             |
| 11-25    | 228957-001 | 1    | SPRING 8X30            |
| 11-26    | 021400-305 | 1    | NUT 4                  |
| 11-27    | J00022-001 | 1    | SPEED CONTROLLER#5     |
| 11-28    | 061401-205 | 2    | SCREW 4X12             |
| 11-29    | 233246-001 | 1    | M. SWITCH ASSEMBLY     |
| 11-30    | 061401-205 | 2    | SCREW 4X12             |
| 11-31    | 233250-001 | 1    | F.P BUSH               |
| 11-32    | 238196-001 | 1    | PEDAL COVER#5          |
| 11-33    | 233236-001 | 3    | SCREW 4X6DA            |
| 11-34    | 233487-002 | 1    | IDENTIFICATION LABEL   |
| 11-35    | 228475-000 | 2    | TYING BAND 1.9X80      |
| 12       | 233491-001 | 2    | TYING BAND 3.6X203     |
| 13       | 200190-001 | 4    | STEPLE                 |
| 14       | 233515-001 | 1    | LABEL                  |

DIFFERENT PARTS LIST, CONTROL BOX FOR SUPPLY LIST / ZUBEHÖRLISTE /  
LISTE DES PIÈCES ACCESSOIRES / LISTA DE PIEZAS ACCESORIAS

| Machine Model |                          |                     |                        |            |            |            |                     |                         |            |  |  |
|---------------|--------------------------|---------------------|------------------------|------------|------------|------------|---------------------|-------------------------|------------|--|--|
| Ref. No.      | Sub-Class<br>Voltage (V) | Single Phase        |                        |            |            |            |                     | Three Phase             |            |  |  |
|               |                          | 110                 | 120                    | 220        | 230        | 240        | 220                 | 380                     | 415        |  |  |
| A-7           | Bracket Ass.             |                     |                        | J00109-001 |            |            |                     |                         |            |  |  |
| A-12          | Motor Ass.               |                     |                        | J80457-001 |            |            | J80460-001          | J00142-001              |            |  |  |
|               |                          |                     |                        | MD826A     |            |            | MD-836A             | J80459-001              |            |  |  |
| A-19          | Rotor                    |                     |                        | 231004-001 |            |            |                     | MD-836B                 |            |  |  |
|               |                          |                     |                        |            |            |            |                     | 231018-001              |            |  |  |
| A-50          | Pulley                   |                     |                        | 228840-000 | M 80-1     |            |                     |                         |            |  |  |
|               |                          |                     |                        | 228237-001 | M 90-1     |            |                     |                         |            |  |  |
|               |                          |                     |                        | 228839-001 | M105-1     |            |                     |                         |            |  |  |
| B-4           | Power Circuit Unit       | J80451-001          | J80452-001             |            | J80453-001 | 231017-001 | M125-1              |                         |            |  |  |
| B-4-1         | Cement Filled            |                     | J01378-001             |            | J01397-001 |            | J80454-001          | J80455-001              |            |  |  |
| B-4-2         | Fuse holder #2           |                     |                        |            | J01401-001 |            | J01408-001          |                         |            |  |  |
| B-4-3         | Fuse                     |                     |                        |            |            |            |                     | 224087-001              |            |  |  |
| B-9           | TRM                      |                     |                        |            |            |            | J01554-001          | J01553-001              |            |  |  |
| B-11          | Trans Former             | 229963-001          | 236126-001             | 229963-001 | 229963-001 | 229963-001 | 229963-001          | 233644-001 (10130F-100) | 229963-001 |  |  |
| B-20          | Control Circuit Unit     | J80447-001          |                        | J01819-001 | ----       | J01819-001 | J01819-001          | 229623-001              | 229644-001 |  |  |
| B-32          | Tredle Unit #19          |                     |                        | J80448-001 |            |            | J80447-001          | J80449-001              |            |  |  |
| B-32-1        | P-S Circuit Unit #19     |                     |                        | J80355-001 |            |            |                     |                         |            |  |  |
| B-32          | Tredle Unit #19          |                     |                        | J80357-001 |            |            |                     |                         |            |  |  |
| B-32-1        | P-S Circuit Unit #18     |                     |                        | J80356-001 |            |            |                     |                         |            |  |  |
| C-11          | Switch Ass.              | 229240-001          | J01244-001             | J80463-001 |            |            | 229250-001          | 229244-001              |            |  |  |
| C-23          |                          | J02045-001 (OCR)    | J02046-001 (OCR)       |            |            |            | J02047-001 (OCR)    | J02048-001 (OCR)        |            |  |  |
|               |                          | 230542-001 (Canada) | 236127-001 (Australia) |            |            |            | 230545-001 (Canada) |                         |            |  |  |

# CONTROL BOX FOR SUPPLY LIST

| Voltage        |           | Destination |             | Parts Code No. |        | 7. 8. 9. Digit |        |        |        |        |         |         |         |         |            | Motor   |  |
|----------------|-----------|-------------|-------------|----------------|--------|----------------|--------|--------|--------|--------|---------|---------|---------|---------|------------|---------|--|
| Power Source   | La Tre-mp | Unit        |             | 1-6Digit       | 020    | 025            | 035    | 040    | 045    | 050    | 047     | 033     | 038     | 043     | Code No.   | Type    |  |
|                |           |             |             |                |        |                |        |        |        |        |         |         |         |         |            |         |  |
| <Single phase> |           |             |             |                |        |                |        |        |        |        |         |         |         |         |            |         |  |
| 110V           | 6V        | #19         |             | J80418         | JD21RA | JD32RA         | JD34RA | JD45RA | JD46RA | JD57RA | JD46RA2 | JD33RA3 | JD34RA3 | JD45RA3 | J80457-001 | MD-826A |  |
|                | 6V        | #18         | Taiwan      | J80419         | JC21RA | JC32RA         | JC34RA | JC45RA | JC46RA | JC57RA | JC46RA2 | JC33RA3 | JC34RA3 | JC45RA3 |            |         |  |
|                | 6V        | #19         | Mexico      | J80420         | JD21RA | JD32RA         | JD34RA | JD45RA | JD46RA | JD57RA | JD46RA2 | JD33RA3 | JD34RA3 | JD45RA3 |            |         |  |
|                | 12V       | #19         |             | J80421         | JD21RB | JD32RB         | JD34RB | JD45RB | JD46RB | JD57RB | JD46RB2 | JD33RB3 | JD34RB3 | JD45RB3 |            |         |  |
| 220V           | 6V        | #19         |             | J80422         | JD21RA | JD32RA         | JD34RA | JD45RA | JD46RA | JD57RA | JD46RA2 | JD33RA3 | JD34RA3 | JD45RA3 |            |         |  |
|                | 6V        | #19         | Hong Kong   | J80423         | JD21RA | JD32RA         | JD34RA | JD45RA | JD46RA | JD57RA | JD46RA2 | JD33RA3 | JD34RA3 | JD45RA3 |            |         |  |
|                | 6V        | #18         | Taiwan      | J80424         | JC21RA | JC32RA         | JC34RA | JC45RA | JC46RA | JC57RA | JC46RA2 | JC33RA3 | JC34RA3 | JC45RA3 |            |         |  |
|                | NIL       | #19         | Germany     | J80425         | JD21RC | JD32RC         | JD34RC | JD45RC | JD46RC | JD57RC | JD46RC2 | JD33RC3 | JD34RC3 | JD45RC3 |            |         |  |
| 230V           | NIL       | #18         |             | J80426         | JC21RC | JC32RC         | JD34RC | JD45RC | JD46RC | JD57RC | JD46RC2 | JD33RC3 | JD34RC3 | JD45RC3 |            |         |  |
|                | 6V        | #19         |             | J80427         | JD21RA | JD32RA         | JD34RA | JD45RA | JD46RA | JD57RA | JD46RA2 | JD33RA3 | JD34RA3 | JD45RA3 |            |         |  |
|                | 6V        | #18         |             | J80428         | JC21RA | JC32RA         | JC34RA | JC45RA | JC46RA | JC57RA | JC46RA2 | JC33RA3 | JC34RA3 | JC45RA3 |            |         |  |
|                | NIL       | #19         | New Zealand | J80429         | JD21RC | JD32RC         | JD34RC | JD45RC | JD46RC | JD57RC | JD46RC2 | JD33RC3 | JD34RC3 | JD45RC3 |            |         |  |
| 240V           | 12V       | #19         |             | J80430         | JD21RB | JD32RB         | JD34RB | JD45RB | JD46RB | JD57RB | JD46RB2 | JD33RB3 | JD34RB3 | JD45RB3 |            |         |  |
|                | 6V        | #19         | Australia   | J80431         | JD21RA | JD32RA         | JD34RA | JD45RA | JD46RA | JD57RA | JD46RA2 | JD33RA3 | JD34RA3 | JD45RA3 |            |         |  |
|                | NIL       | #19         | U. Kingdom  | J80432         | JD21RC | JD32RC         | JD34RC | JD45RC | JD46RC | JD57RC | JD46RC2 | JD33RC3 | JD34RC3 | JD45RC3 |            |         |  |
| <Three Phase>  |           |             |             |                |        |                |        |        |        |        |         |         |         |         |            |         |  |
| 220V           | 12V       | #19         |             | J80434         | JD21RB | JD32RB         | JD34RB | JD45RB | JD46RB | JD57RB | JD46RB2 | JD33RB3 | JD34RB3 | JD45RB3 | J80459-001 | MD-836A |  |
|                | 6V        | #19         |             | J80435         | JD21RA | JD32RA         | JD34RA | JD45RA | JD46RA | JD57RA | JD46RA2 | JD33RA3 | JD34RA3 | JD45RA3 |            |         |  |
|                | 6V        | #18         | Taiwan      | J80436         | JC21RA | JC32RA         | JC34RA | JC45RA | JC46RA | JC57RA | JC46RA2 | JC33RA3 | JC34RA3 | JC45RA3 |            |         |  |
|                | NIL       | #19         |             | J80437         | JD21RC | JD32RC         | JD34RC | JD45RC | JD46RC | JD57RC | JD46RC2 | JD33RC3 | JD34RC3 | JD45RC3 |            |         |  |
| 380V           | NIL       | #18         |             | J80438         | JC21RC | JC32RC         | JD34RC | JD45RC | JD46RC | JD57RC | JD46RC2 | JD33RC3 | JD34RC3 | JD45RC3 |            |         |  |
|                | 12V       | #19         |             | J80439         | JD21RB | JD32RB         | JD34RB | JD45RB | JD46RB | JD57RB | JD46RB2 | JD33RB3 | JD34RB3 | JD45RB3 |            |         |  |
|                | 6V        | #19         |             | J80440         | JD21RA | JD32RA         | JD34RA | JD45RA | JD46RA | JD57RA | JD46RA2 | JD33RA3 | JD34RA3 | JD45RA3 |            |         |  |
|                | 6V        | #18         |             | J80441         | JC21RA | JC32RA         | JC34RA | JC45RA | JC46RA | JC57RA | JC46RA2 | JC33RA3 | JC34RA3 | JC45RA3 |            |         |  |
| 415V           | NIL       | #19         | Germany     | J80442         | JD21RC | JD32RC         | JD34RC | JD45RC | JD46RC | JD57RC | JD46RC2 | JD33RC3 | JD34RC3 | JD45RC3 | J80460-001 | MD-836B |  |
|                | 12V       | #18         |             | J80443         | JD21RB | JD32RB         | JD34RB | JD45RB | JD46RB | JD57RB | JD46RB2 | JD33RB3 | JD34RB3 | JD45RB3 |            |         |  |
|                | 6V        | #18         |             | J80444         | JD21RA | JD32RA         | JD34RA | JD45RA | JD46RA | JD57RA | JD46RA2 | JD33RA3 | JD34RA3 | JD45RA3 |            |         |  |
|                | NIL       | #18         | U. kingdom  | J80445         | JD21RC | JD32RC         | JD34RC | JD45RC | JD46RC | JD57RC | JD46RC2 | JD33RC3 | JD34RC3 | JD45RC3 |            |         |  |

| 部品コード      | 参照番号                    | 部品コード      | 参照番号             |
|------------|-------------------------|------------|------------------|
| 008100-805 | A-18-5                  | 228957-001 | D-11-25          |
| 021030-206 | A-37                    | 229017-001 | A-15, B-5        |
| 021080-302 | D-10-6, D-11-6          | 229238-001 | C-13-2           |
| 021100-206 | A-9                     | 229239-001 | C-13-3           |
| 021140-305 | A-53                    | 229239-001 | C-21-3           |
| 021400-305 | D-11-26                 | 229240-001 | C-11             |
| 025040-335 | D-11-23                 | 229241-001 | C-11-3           |
| 025080-336 | A-35                    | 229244-001 | C-18             |
| 025100-236 | A-10                    | 229245-001 | C-18-2           |
| 028080-242 | D-10-5, D-11-5          | 229246-001 | C-18-3           |
| 028080-246 | A-36, D-10-5, D-11-5    | 229250-001 | C-16             |
| 028100-246 | A-11                    | 229335-001 | A-18-2           |
| 037301-016 | C-1-6, C-2-5            | 229561-001 | B-11             |
| 061400-402 | D-10-17, D-11-19        | 229623-001 | B-11             |
| 061401-205 | D-10-9, D-11-9, D-11-28 | 229643-001 | B-11             |
| 062061-005 | A-5                     | 229644-001 | B-11             |
| 062402-005 | D-11-22                 | 230214-001 | B-11             |
| 062681-212 | C-5                     | 230431-001 | A-18             |
| 076202-801 | A-22, A-42-2            | 230432-001 | A-18-1           |
| 200190-001 | C-25                    | 230444-001 | C-22-2           |
| 203684-001 | A-26                    | 230445-001 | C-22-3           |
| 203878-003 | B-12                    | 230542-001 | C-12             |
| 205476-001 | C-17-3                  | 230543-001 | C-12-2           |
| 210965-081 | A-8                     | 230544-001 | C-12-3           |
| 211528-001 | A-44, A-51              | 230545-001 | C-17             |
| 215080-001 | A-42-4                  | 230546-001 | C-17-2           |
| 215081-001 | B-17                    | 230550-001 | C-23-2           |
| 215081-001 | A-17                    | 230551-001 | C-23-3           |
| 215081-002 | C-4                     | 231004-001 | A-19             |
| 215504-001 | C-23-1                  | 231006-001 | A-19             |
| 217093-001 | D-10-16, D-11-18        | 231007-001 | A-19             |
| 217133-001 | A-30                    | 231008-001 | A-23             |
| 219517-000 | A-46                    | 231013-001 | A-49             |
| 219582-001 | A-32                    | 231017-001 | A-50             |
| 219603-001 | A-33                    | 231018-001 | A-19             |
| 221528-001 | A-25                    | 231458-001 | A-47             |
| 222372-001 | A-34                    | 231855-001 | C-21-1           |
| 222753-000 | A-45                    | 231856-001 | C-21-2           |
| 223738-001 | C-22-1                  | 233217-001 | D-10-1           |
| 223739-001 | C-20-1                  | 233221-003 | D-10-2, D-11-2   |
| 224087-001 | B-4-2                   | 233222-003 | D-10-3, D-11-3   |
| 224475-001 | A-1                     | 233223-001 | D-10-4, D-11-4   |
| 224485-000 | A-20                    | 233224-002 | D-10-7, D-11-7   |
| 224487-000 | A-21                    | 233225-001 | D-10-15          |
| 224503-001 | A-48                    | 233228-001 | D-10-12          |
| 224504-001 | A-18-4                  | 233229-001 | D-10-13, D-11-13 |
| 224508-001 | A-57                    | 233230-001 | D-10-14, D-11-14 |
| 224513-001 | C-16-3                  | 233231-001 | D-10-8, D-11-17  |
| 224540-001 | A-6                     | 233232-001 | D-10-11, D-11-11 |
| 225534-001 | D-11-21                 | 233233-001 | D-10-10, D-11-10 |
| 226671-001 | A-18-3                  | 233234-001 | D-10-18          |
| 226992-001 | A-2                     | 233236-001 | D-10-23, D-11-33 |
| 228216-001 | A-41                    | 233246-001 | D-10-20, D-11-29 |
| 228221-001 | A-14                    | 233250-001 | D-10-21, D-11-31 |
| 228237-001 | A-50                    | 233251-003 | D-10-22          |
| 228243-001 | C-11-2                  | 233487-002 | D-10-24, D-11-34 |
| 228272-001 | C-16-2                  | 233488-002 | D-10-24          |
| 228475-000 | D-10-25, HD11-35        | 233491-001 | D-12             |
| 228839-001 | A-50                    | 233515-001 | D-14             |
| 228840-000 | A-50                    | 233643-001 | B-9              |

| 部品コード      | 参照番号       | 部品コード      | 参照番号         |
|------------|------------|------------|--------------|
| 233644-001 | B-9        | J01817-001 | B-29         |
| 235533-001 | C-20-2     | J01823-001 | B-31         |
| 235534-001 | C-20-3     | J01824-001 | B-24         |
| 236127-001 | C-14       | J01860-001 | B-30         |
| 236128-001 | C-14-2     | J01866-001 | B-15         |
| 236129-001 | C-14-3     | J01869-001 | C-1-1        |
| 237641-001 | A-52       | J01870-001 | C-1-2, C-2-2 |
| 238084-001 | C-16-1     | J01871-001 | C-1-3, C-2-3 |
| 238084-001 | C-18-1     | J01872-001 | C-1-4        |
| 238084-001 | C-17-1     | J01873-001 | C-1-5        |
| 238186-001 | D-11-15    | J01875-001 | C-2-1        |
| 238188-001 | D-11-16    | J01877-001 | C-2-4        |
| 238191-001 | D-11-20    | J01880-001 | B-1          |
| 238194-001 | D-11-1     | J01883-001 | B-34         |
| 238196-001 | D-11-32    | J01884-001 | B-18         |
| 291661-043 | D-10       | J01892-001 | B-23         |
| 291662-003 | D-10       | J01914-001 | B-11         |
| 299017-001 | B-19       | J01915-001 | B-11         |
| 385266-040 | D-11       | J01916-001 | B-11         |
| J00021-001 | D-11-24    | J01918-001 | B-11         |
| J00022-001 | D-11-27    | J01919-001 | B-11         |
| J00025-001 | B-21       | J01920-001 | B-11         |
| J00027-001 | C-12-1     | J01921-001 | B-11         |
| J00027-001 | C-14-1     | J01927-001 | B-42         |
| J00027-001 | C-11-1     | J02040-001 | C-3          |
| J00027-001 | C-13-1     | J02045-001 | C-20         |
| J00048-001 | B-41       | J02046-001 | C-21         |
| J00074-001 | A-13, B-14 | J02047-001 | C-22         |
| J00106-001 | A-54       | J02048-001 | C-23         |
| J00107-001 | A-4        | J02049-001 | B-37         |
| J00109-001 | A-7        | J02062-001 | B-13         |
| J00112-001 | A-16-1     | J02064-001 | C-6          |
| J00130-001 | A-43       | J02065-001 | C-7          |
| J00142-001 | A-7        | J80070-001 | A-12         |
| J00143-001 | A-55       | J80319-001 | A-42         |
| J00146-001 | A-27       | J80355-001 | B-32         |
| J00147-001 | A-29       | J80356-001 | B-32         |
| J00148-001 | A-28       | J80357-001 | B-32-1       |
| J00149-001 | A-31       | J80446-001 | B-20         |
| J00179-001 | B-10       | J80447-001 | B-20         |
| J00351-001 | A-56       | J80448-001 | B-20         |
| J00353-001 | A-42-2     | J80449-001 | B-20         |
| J00353-001 | B-33       | J80450-001 | B-4          |
| J00353-001 | B-3        | J80451-001 | B-4          |
| J00494-001 | B-8        | J80452-001 | B-4          |
| J00649-001 | B-32-3     | J80453-001 | B-4          |
| J00915-001 | B-7        | J80454-001 | B-4          |
| J01244-001 | C-13       | J80455-001 | B-4          |
| J01301-001 | B-35       | J80457-001 | A-12         |
| J01354-001 | B-14       | J80458-001 | A-12         |
| J01378-001 | B-4-1      | J80459-001 | A-12         |
| J01393-001 | B-4-1      | J80460-001 | A-12         |
| J01401-001 | B-4-1      | J80461-001 | A-12         |
| J01408-001 | B-4-1      | J80462-001 | A-12         |
| J01463-001 | B-26       | J80463-001 | B-32-1       |
| J01553-001 | B-4-3      | J80469-001 | C-1          |
| J01554-001 | B-4-3      | J80470-001 | C-2          |
| J01673-001 | A-24       | S03816-001 | C-24         |
| J01736-001 | A-3        | S14823-001 | D-11-12      |
| J01816-001 | B-27       |            |              |