| [fen         | No.                    |  | Qty |
|--------------|------------------------|--|-----|
| 48)          | Universal Puller Set   |  | - 5 |
|              | Consist of 150HD       | puller set, T-75 wheel puller, T-26, T-28  |     |
|              | gear puller, T-20      | terminal puller, G-61 slide hammer puller, |     |
|              | 101-S gear puller      | , each 1 pc. for bus                       |     |
|              | Type UP-5000           |  |     |
|              | Refer to $1-1-2$ ,     | Item No.2                                  |     |
|              |                        |  |     |
| (9)          | Outside Micrometer Set |  | 5   |
|              | Range                  | : 0 - 150mm                                |     |
| <i>,</i> , . | Type 1525MB            |  |     |
|              | Refer to $1-1-9$ ,     | Item No.27                                 |     |
|              |                        |  |     |
| (50)         | Inside Micrometer Set  |  | 5   |
|              | Range                  | : 25 - 50mm                                |     |
|              | Type No.50N            |  |     |
| · 51)        | Inside Micrometer Set  |  | 5   |
| ,,,,         | Range                  | : 50 - 150mm                               | ر   |
|              | Type No.150N           | . 50 - 150mm                               |     |
|              | 1996 110.13011         |  |     |
| 52)          | Caddy Tool Stand       |  | 8   |
|              | Size                   | : 660(L) x 330(W) x 825(H)mm               |     |
|              |                        | 3 steps type                               |     |
|              | Type RC-102            |  |     |
|              | •                      |  |     |
| 53)          | Parts Washing Stand    |  | 1   |
|              | Size                   | : 1,270(H) x 970(W) x 690(D)mm             |     |
|              | Tank capacity          | : 55 lit - oil                             |     |
|              |                        | 45 lit - water                             |     |
|              | Motor                  | : 200W, single phase                       |     |
|              | Type WS-25             |  |     |
|              | Refer to 1-1-2,        | Item No.5                                  |     |
|              |                        |  |     |

) Thickness Gauge : 0.04 - 0.89mm 26 leaves Range Type No.26 )) Piston Feeler Gauge 8 leaves : 0.05 - 0.38mm Range Type No.208 Refer to 1-1-9, Item No.39 Hand Tachometer : 1,000 (10,000) r.p.m. Revolution with rubber adaptor 3 pcs. Type HL Refer to 1-1-9, Item No.61 ) Black Board : 1,800 x 900mm Size Double side Type 4391ZE

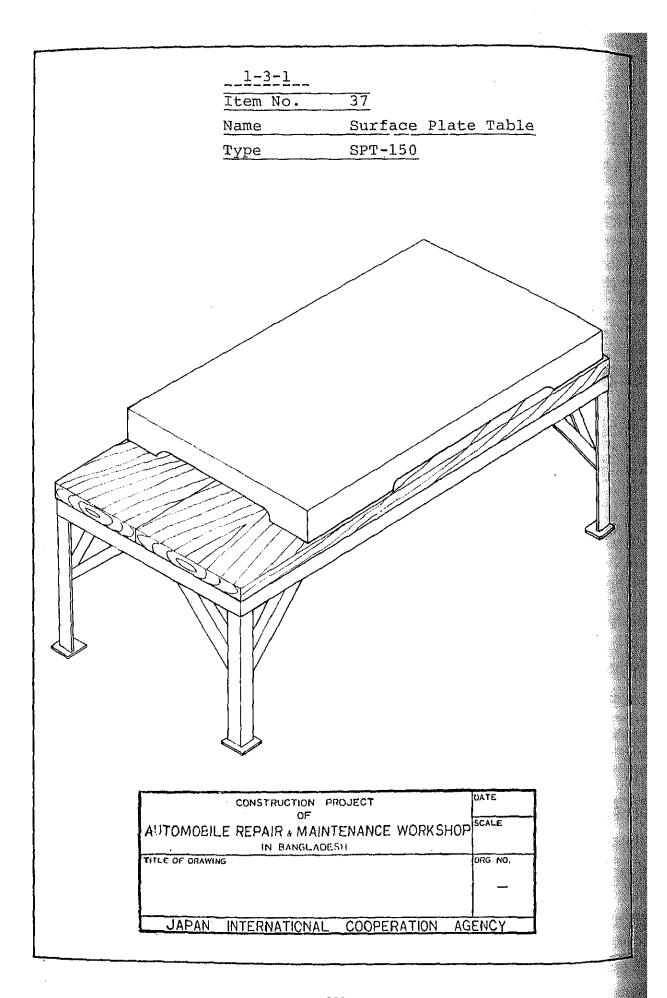
\_\_1-3-1\_\_

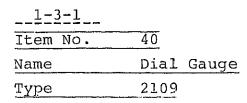
Item No.15NameSling ChainType2D-SS

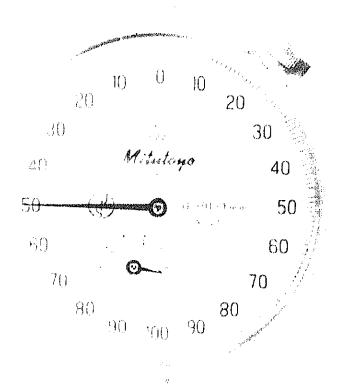
Double Type

D-SS

| CONSTRUCTION PROJECT OF ALITOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLADESH | DATE<br>SCALE |
|---|---------------|
| TITLE OF DRAWING  | ORG. NO.      |
| JAPAN INTERNATIONAL COOPERATION AG  | ENCY          |

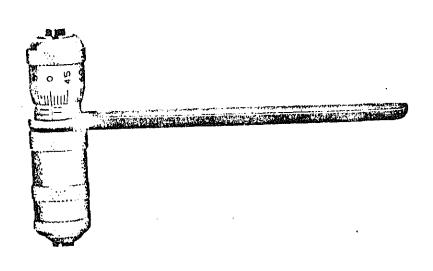




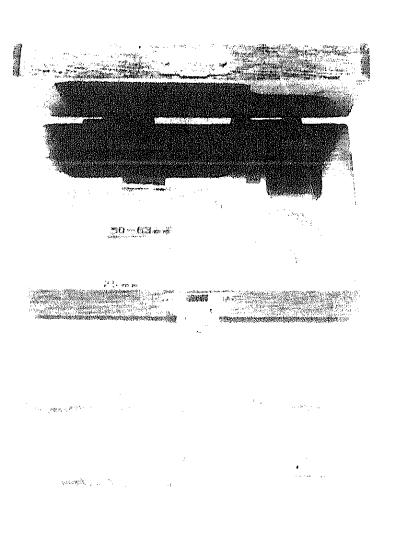


| CONSTRUCTION PROJECT OF AUTOMOBILE REPAIR MAINTENANCE WORKSHOP IN BANGLADESH | DATE<br>SCALE |
|--|---------------|
| TITLE OF DRAWING   | ORG. NO.      |
| ·  | _             |
|  |               |
| JAPAN INTERNATIONAL COOPERATION AG   | ENCY          |

| 50                    |
|-----------------------|
| Inside Micrometer Set |
| No.50N                |
|                       |

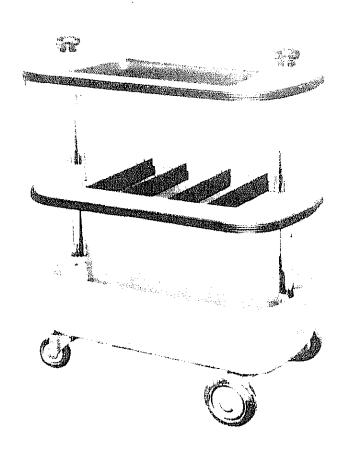


| CONSTRUCTION PROJECT OF ALITOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLADESH | DATE<br>SCALE |
|---|---------------|
| TITLE OF DRAWING  | DRG. NO.      |
|   | _             |
| JAPAN INTERNATIONAL COOPERATION AG  | ENCY          |



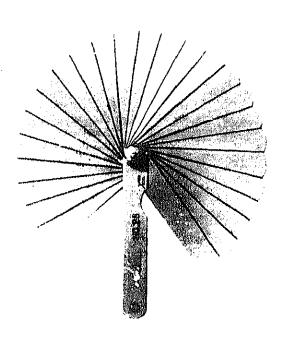
| CONSTRUCTION PROJECT OF                  | DATE     |
|--|----------|
| AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP | SCALE    |
| IN BANGLADESH                            | ORG. NO. |
| TITLE OF DRAWING                         | ONG. NO. |
|  | _        |
|  |          |
| JAPAN INTERNATIONAL COOPERATION AG       | ENCY     |

| 1_3_1    |            |       |
|----------|------------|-------|
| Item No. | 52         |       |
| Name     | Caddy Tool | Stand |
| Туре     | RC-102     |       |



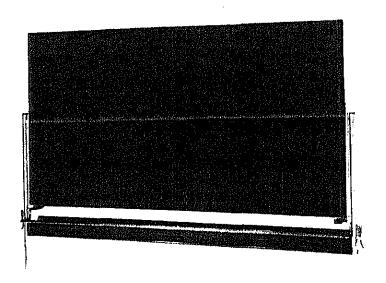
| CONSTRUCTION PROJECT OF A!ITOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLADESH | SCALE    |
|---|----------|
| TITLE OF DRAWING  | ORG. NO. |
| JAPAN INTERNATIONAL COOPERATION AG  | ENCY     |

| 1-3-1    |           |       |
|----------|-----------|-------|
| Item No. | 54        |       |
| Name     | Thickness | Gauge |
| Type     | No.26     |       |



| CONSTRUCTION PROJECT OF A!ITOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLADESH | SCALE   |
|---|---------|
| TITLE OF DRAWING  | DRG NO. |
| JAPAN INTERNATIONAL COOPERATION AG  | ENCY    |

| 57     |         |
|--------|---------|
| Black  | Board   |
| 439121 | <u></u> |
|        | Black   |



| CONSTRUCTION PROJECT OF AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLADESH | DATE<br>SCALE |
|--|---------------|
| TITLE OF DRAWING   | DRG. NO.      |
| JAPAN INTERNATIONAL COOPERATION AG   | ENCY          |

```
1-3-2) Group Brake & Steering Course
i No.
                                                                          Qty
 Work Bench
                                                                          10
      Dimension
                          : 1,780(W) x 600(D) x 750(H) mm
       with two drawers
     Type T-1000
       Refer to 1-1-1, Item No.2
 Vice
                                                                          10
                          : 150mm
     Jaw width
                         : 155mm
     Jaw opening
     Type UV-150
       Refer to 1-1-1, Item No.3
 Brake Assembling Stand
                                                                           5
     Dimension
                          : 970(L) \times 650(W) \times 1,200(H)mm
       with attachments
     Type BAS-15
 Brake Shoe Grinder
                                                                           1.
     Drum dia.
                          : 380 - 450mm
     Lining width
                          : 250mm
       with dust collector and stand
     Type BSG-250MV
       Refer to 1-1-1, Item No.3
 Air Drill
                                                                           2
                          : 10mm
     Capacity
                          : 2,800 r.p.m.
     Revolution
       with ps coupler nipple and hose 2m
     Type 211A
       Refer to 1-1-1, Item No.6
```

Bushing Inserter & Remover Consist of attachment: 18 - 40mm 13 pcs. 3 pcs. Push rod Type T-130 Refer to 1-1-1, Item No.9 1 Tool Stand :  $620(W) \times 460(D) \times 800(H) mm$ Size Interchangeable tray: 4 steps Type TS-34 Refer to 1-1-1, Item No.10 Mir Grinder Wheel dia. : 100mm : 10,500 - 11,500 r.p.m. Revolution with ps coupler nipple and hose 5m Type M-22S Refer to 1-1-1, Item No.11 Mechanic Tool Set Consist of : open end wrench  $6 \times 7$ ,  $8 \times 9$ ,  $10 \times 12$ ,  $11 \times 13$ ,  $12 \times 14$ , 14 x 17, 19 x 21mm each 1 pc. box wrench  $8 \times 9$ ,  $10 \times 12$ ,  $11 \times 13$ ,  $12 \times 14$ ,  $14 \times 17$ ,  $17 \times 19$ ,  $19 \times 21$ ,  $22 \times 24mm$  each 1 pc. flare nut wrench: 10 x 11, 12 x 14mm each 1 pc. socket wrench for 9.5mm 8, 9, 10, 11, 12, 13, 14, 17, 19, 21, 22, 23 24mm each 1 pc. ratchet handle, nut spinner handle, sliding T

handle, extension bars

Qty

Rem No.

universal joint, plug wrench for 9.5mm,
adjustable wrench 250mm, plier 200, 150mm,
nipper 150mm, hammer 450g
- driver 75, 100, 150, 200mm
+ driver 75, 100, 150mm: stubby driver -, +
integral handle driver 280mm, thickness gauge,
plug gap gauge, flat chisel, center punch,

needle file set, point file with case

Type CU-305

Refer to 1-1-1, Item No.12

🕼 Torque Wrench

Range : 0 - 1,300 kgf.cm

Wrench size : 12.7mm

Graduation : 20kgf.cm

Type 1300F

Refer to 1-1-6, Item No.9

) Torque Wrench

Range : 0 - 2,800 kgf.cm

Wrench size : 19mm Graduation : 50kgf.cm

Type 2800F

Refer to 1-1-4, Item No.7

Torque Wrench

Range : 0 - 5,600kgf.cm

Wrench size : 19mm

Graduation : 100kgf.cm

Type 5600F

Refer to 1-1-6, Item No.11

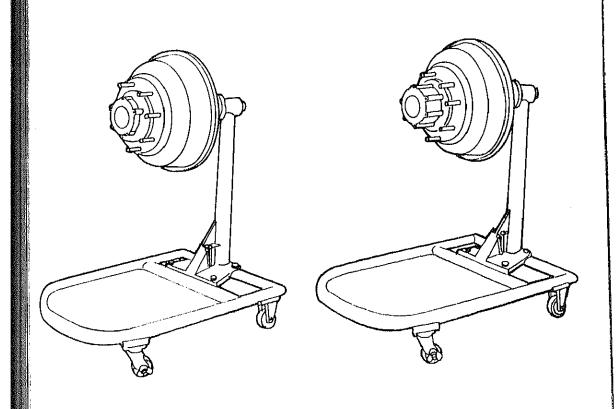
2

2

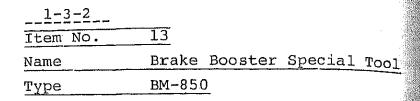
Qty ites No. Brake Booster Special Tool : 500(W) x 600(L) x 850(H)mm Dimension Type BM-850 Surface Plate :  $900 \times 1,800 \text{mm}$ Size For sheet metal job Type SPC-12 )) Inside Caliper 20 : 0 - 300mm Range Type CI-30 20 )) Outside Caliper : 0 - 300 mmRange Type CO-30 20 l) Rule : 0 - 600 mmRange Type R-600 100 🗓 Soft Hammer Weight : 500g Type SPH-5 100 Oopper Hammer Weight : 450g Type CH-16 Ball Plain Hammer 100 Weight : 450g Type BH-16

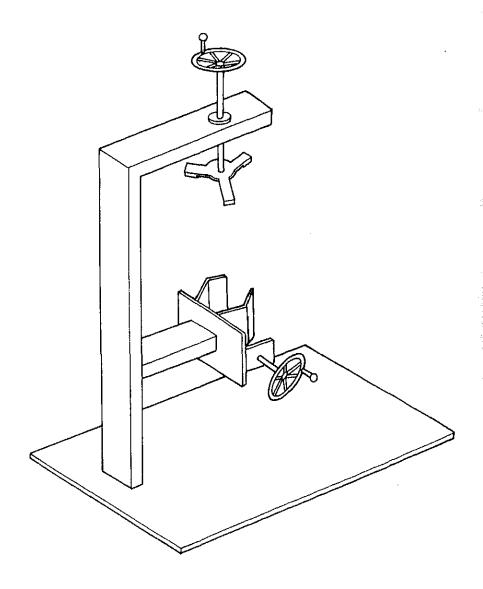
item No. Qty 1) Universal Puller Set 5 Consist of 150HD puller set, T-75 wheel puller, T-26, T-28 gear puller, T-20 terminal puller, G-61 slide hammer puller, 101S gear puller each 1 pc. for bus Type UP-5000 Refer to 1-1-2, Item No.2 Caddy Tool Stand 2 Dimension :  $660(L) \times 330(W) \times 825(H) mm$ 3 steps Type RC-102 Refer to 1-3-1, Item No.52 2 23) Black Board Size : 1,800 x 900mm Double side Type 4391ZE Refer to 1-3-1, Item No.57

| 1_3_2    |                        |
|----------|------------------------|
| Item No. | 3                      |
| Name     | Brake Assembling Stand |
| туре     | BAS-15                 |



| CONSTRUCTION PROJECT               | DATE     |
|------------------------------------|----------|
| TITLE OF DRAWING                   | DRG. NO. |
| JAPAN INTERNATIONAL COOPERATION AG | ENCY     |





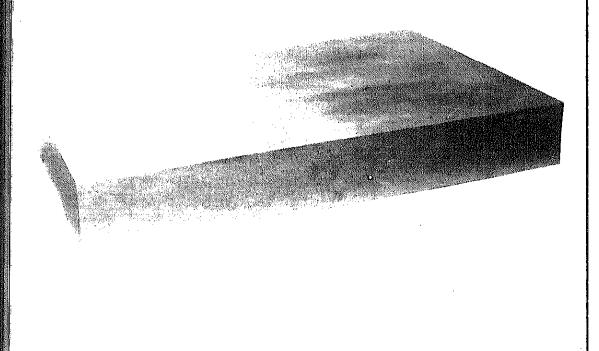
| CONSTRUCTION PROJECT OF ALITOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLADESH | SCALE    |
|---|----------|
| TITLE OF DRAWING  | ORG. NO. |
| JAPAN INTERNATIONAL COOPERATION AG  | ENCY     |

 1-3-2

 Item No.
 14

 Name
 Surface Plate

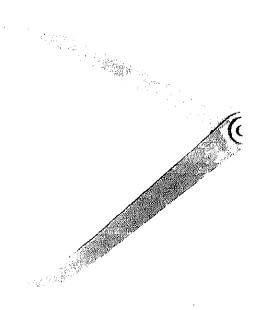
 Type
 SPC-12



| CONSTRUCTION PROJECT OF                  | DATE     |
|--|----------|
| AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP | SCALE    |
| TITLE OF DRAWING                         | DRG. NO. |
| JAPAN INTERNATIONAL COOPERATION AG       | ENCY     |

| CONSTRUCTION PROJECT OF AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLADESH | SCALE    |
|--|----------|
| TITLE OF DRAWING   | ORG. NO. |
|  | _        |
| JAPAN INTERNATIONAL COOPERATION AG   | SENCY    |

\_\_1-3-2\_\_\_
Item No. 16
Name Outside Capliper
Type CO-30



| CONSTRUCTION PROJECT OF AUTOMOBILE REPAIR MAINTENANCE WORKSHOP IN BANGLADESH | SCALE    |
|--|----------|
| TITLE OF DRAWING   | DRG. NO. |
|  | _        |
| JAPAN INTERNATIONAL COOPERATION AG   | ENCY     |



| CONSTRUCTION PROJECT               | DATE     |
|------------------------------------|----------|
| TITLE OF DRAWING                   | DRG. NO. |
| JAPAN INTERNATIONAL COOPERATION AC | SENCY    |

| 1-3-2    |             |
|----------|-------------|
| Item No. | 18          |
| Name     | Soft Hammer |
| Туре     | SPH-5       |



| CONSTRUCTION PROJECT OF AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLADESH | DATE<br>SCALE |
|--|---------------|
| TITLE OF ORAWING   | ORG. NO.      |
|  | _             |
| JAPAN INTERNATIONAL COOPERATION AG   | ENCY          |

| 1-3-2    |        |        |
|----------|--------|--------|
| Item No. | 19     |        |
| Name     | Copper | Hammer |
| Туре     | CH-16  |        |
|          |        |        |



| CONSTRUCTION PROJECT OF AUTOMOBILE REPAIR & MAINTENANCE WORKSHOP | SCALE    |
|--|----------|
| IN BANGLADESH TITLE OF DRAWING                                   | ORG. NO. |
| JAPAN INTERNATIONAL COOPERATION AC                               | SENCY    |

| 1-3-2    |          |        |
|----------|----------|--------|
| Item No. | 20       |        |
| Name     | Ballpein | Hammer |
| Туре     | BH-16    |        |



| CONSTRUCTION PROJECT OF AUTOMOBILE REPAIR & MAINTENANCE WORKSHO IN BANGLADESH | P SCALE  |
|---|----------|
| TITLE OF DRAWING  | DRG. NO. |
|   |          |
|   |          |
| JAPAN INTERNATIONAL COOPERATION A   | GENCY    |

## 1-3-3) Group Electric Course item No. Qty l) Circuit Tester 5 DC = 0 - 2.5/5/10/25/50V0 - 250 mA, 0 - 20 AAC = 0 - 10/50/250/1,000VType TH-20 Refer to 1-1-3, Item No.45 2 2) Auto Megger $0 - 100M\Omega/500V$ Push button type Type T-521-35 Volt Ampere meter : 0 - 2, 0 - 20, 0 - 40Voltage : -6 to 0 to 60 Ampere Load resistance : 0 - 20A Type E-164 5 4) Electric Soldering Iron : 100W Capacity Iron size : 9ø x 110mm Type EI-10 5) Electric Soldering Iron 5 : 300W Capacity Iron size : 19ø x 135mm Type EI-30

Item No.

6) Solder

Weight

; 500g/roll

Combination

: 50% tin

50% lead

Type ROS

Refer to 1-1-7, Item No.28

7) Soldering Paste Flux

Capacity

500g/can

Type P-1B

Refer to 1-1-7, Item No.29

8) Carbon Cleaning Set

Contents

: Wire brush, wire wheel brush,

carbon removing brush,

valve guide brush, 7, 8, 9, 10mm

Qty

10

Type 750

Refer to 1-1-9, Item No.51

9) Air Drill

Capacity

: 6.5mm

Revolution

: 2,900 r.p.m.

with PS coupler, nipple and hose 5m

Type AD-65A

Refer to 1-1-7, Item No.22

10) Work Bench

Size

: 1,780(L)  $\times$  600(W)  $\times$  750(H) mm

with two drawers

Type T-1000

Refer to 1-1-1, Item No.2

```
item No.
                                                                                  Qty
   Work Bench
                                                                                   5
         Size
                                : 1,780(L) \times 600(W) \times 750(H) mm
           with two drawers
         Type T-1000
           Refer to 1-1-1, Item No. 2
12) Vice
                                                                                  5
         Jaw width
                                : 150mm
         Jaw opening
                                : 155mm
         Type UV-150
           Refer to 1-1-1, Item No.3
13) Electric Universal Tester
                                                                                  1.
        Drive shaft speed
                                    : 300 - 2,800 \text{ r.p.m.}
        Motor
                                    : 2.2KW
                                                  3 phase
        Speed select
                                    : Stepless
        Tachometer
                                    : 0 - 5000/10,000 \text{ r.p.m.}
        Ammeter
                                    : -5 to 0 to 50, -10 to 0 to 100.
                                       -150 to 0 to 1,500, 0 - 5, 0 - 10
        Voltmeter
                                    : -1 to 0 to 10, -2 to 0 to 20,
                                       -5 to 0 to 50
        M-Ohm
                                    : 0 - 50/250, 500M\Omega/V
        Cam angle tachometer
                                   0 - 3,000 \text{ r.p.m.}/0 - 70^{\circ}, 0 - 14^{\circ}
        Torque meter
                                   : 0 - 3, 0 - 12kg-m
        Field rheostat
                                   : 0 - 50 \text{ ohm}
        Dimension
                                    : 1,500(H) \times 1,400(W) \times 800(D) mm
        Weight
                                    : 600kg
        Test
                                    : Load and no load characteristics
                                       motoring cutout relay, closing
                                       voltage opening current load and
                                       no load characteristics pinion
                                       engagement distributor and
                                       ignition coil etc.
```

en No

Type ETB-500 Refer to 1-1-7, Item No.1

Battery Charger

DC output

: 6 - 12, 18 - 24 - 48V/20A

Power

: 1.4KVA/14A/97%

Rectification

: Full wave

Type HRC-7520

Refer to 1-1-7, Item No. 7

🗓 Copper Hammer

Weight

: 450g

Type CH-16

Refer to 1-3-2, Item No.19

Mechanic Tool Set

Consist of : open end wrench

6 x 7, 8 x 9, 10 x 12, 11 x 13, 12 x 14,

14 x 17, 19 x 21mm each 1 pc.

box wrench

 $8 \times 9$ ,  $10 \times 12$ ,  $11 \times 13$ ,  $12 \times 14$ ,  $14 \times 17$ ,

17 x 19, 19 x 21, 22 x 24mm each 1 pc.

flare nut wrench: 10 x 11, 12 x 14, each 1 pc.

socket wrench for 9.5mm

8, 9, 10, 11, 12, 13, 14, 17, 19, 21, 22, 23,

24mm each 1 pc.

ratchet handle, nut spinner handle, sliding T handle, extension bars, universal joint, plug wrench for 9.5mm, adjustable wrench 250mm,

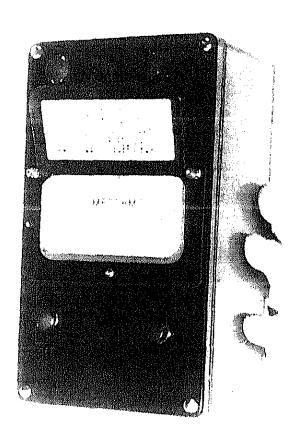
plier 200, 150mm, nipper 150mm, hammer 450g

- driver 75, 100, 150, 200mm

+ driver 75, 100, 150mm: stubby driver -, +

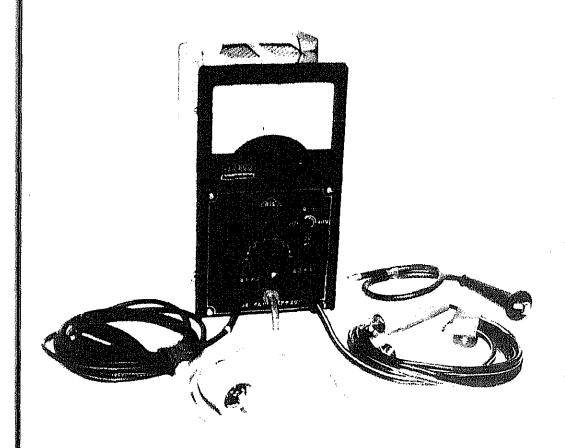
Item No. Qty integral handle driver 280mm, thickness gauge, plug gap gauge, flat chise, center punch, needle file set, point file with case Type CU-305 Refer to 1-1-1, Item No.12 17) Snapring Plier Set 5 Range : 0 - 60mm for stem 0 - 55mm for groove Type SPS-4 Refer to 1-1-2, Item No.11 18) Arc Welder 2 Current : 500A Current adjustable : 505 - 90A Electrode : 8 - 3.2 mmPrimary input : 40 KVA with accessories Type AT-SS-500 Refer to 1-1-3, Item No.8 19) Caddy Tool Stand 2 Size :  $660(L) \times 330(W) 825(H) mm$ 3 step type Type RC-102 Refer to 1-3-1, Item No.52 <sup>20)</sup> Black Board 5 Size : 1,800 x 900mm Double size with stand Type 43912E Refer to 1-3-1, Item No.57

```
||) Rack
|| Size : 900 x 450 x 1,800mm
| Type 6367BB
| Refer to 1-1-7, Item No.9
```



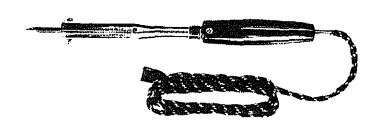
| CONSTRUCTION PROJECT OF A!ITOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLADESH | SCALE    |
|---|----------|
| TITLE OF DRAWING  | DRG. NO. |
| JAPAN INTERNATIONAL COOPERATION AG  | ENCY     |

| 1-3-3    |                   |
|----------|-------------------|
| Item No. | 3                 |
| Name     | Volt Ampere Meter |
| Type     | E-164             |



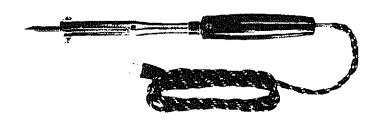
| CONSTRUCTION PROJECT OF ALITOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLADESH | SCALE    |
|---|----------|
| TITLE OF DRAWING  | ORG. NO. |
|   | _        |
| JAPAN INTERNATIONAL COOPERATION AG  | ENCY     |

| 1_3_3    |                    |     |
|----------|--------------------|-----|
| Item No. | 4                  |     |
| Name     | Electric Soldering | ron |
| Туре     | EI-10              |     |



| CONSTRUCTION PROJECT OF A!JTOMOBILE REPAIR & MAINTENANCE WORKSHOP IN BANGLAGESH | SCALE    |
|---|----------|
| TITLE OF DRAWING  | DRG. NO. |
| JAPAN INTERNATIONAL COOPERATION AG  | ENCY     |

| 1-3-3    |                         |
|----------|-------------------------|
| Item No. | 5                       |
| Name     | Electric Soldering Iron |
| Type     | EI-30                   |



| OF MAINTENANCE WORKSHOE                   |          |
|---|----------|
| ALITOMOBILE REPAIR & MAINTENANCE WORKSHOP | SCALE    |
| TITLE OF DRAWING                          | ORG. NO. |
|   |          |
| JAPAN INTERNATIONAL COOPERATION AG        | SENCY    |