

# PARTS MANUAL



*Mikasa* **SERIES**  
**MODEL MVH508DZ**  
**REVERSIBLE PLATE COMPACTOR**  
**(HATZ 1D81S-325 DIESEL ENGINE)**

Revision #10 (08/01/22)

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**THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.**

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### MVH508DZ Reversible Plate Compactor

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#### NOTICE

Specifications and part numbers are subject to change without notice.

[illegible]

## EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

### NOTICE

The contents and part numbers listed in the parts section are subject to change **without notice**. Multiquip does not guarantee the availability of the parts listed.

### SAMPLE PARTS LIST

| NO. | PART NO. | PART NAME            | QTY. | REMARKS             |
|-----|----------|----------------------|------|---------------------|
| 1   | 12345    | BOLT .....           | 1    | INCLUDES ITEMS W/%  |
| 2%  |          | WASHER, 1/4 IN. .... |      | NOT SOLD SEPARATELY |
| 2%  | 12347    | WASHER, 3/8 IN. ...  | 1    | MQ-45T ONLY         |
| 3   | 12348    | HOSE .....           | A/R  | MAKE LOCALLY        |
| 4   | 12349    | BEARING .....        | 1    | S/N 2345B AND ABOVE |

### NO. Column

**Unique Symbols** — All items with same unique symbol (@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the “Remarks” column.

**Duplicate Item Numbers** — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

### NOTICE

When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

### PART NO. Column

**Numbers Used** — Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at the time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the “Remarks” Column.

### QTY. Column

**Numbers Used** — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the “Remarks” Column.

### REMARKS Column

Some of the most common notes found in the “Remarks” Column are listed below. Other additional notes needed to describe the item can also be shown.

**Assembly/Kit** — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

“INCLUDES ITEMS W/(unique symbol)”

**Serial Number Break** — Used to list an effective serial number range where a particular part is used.

Indicated by:

“S/N XXXXX AND BELOW”

“S/N XXXX AND ABOVE”

“S/N XXXX TO S/N XXX”

**Specific Model Number Use** — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

“XXXXX ONLY”

“NOT USED ON XXXX”

**“Make/Obtain Locally”** — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

**“Not Sold Separately”** — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

## SUGGESTED SPARE PARTS

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### MVH508DZ PLATE COMPACTOR WITH 1D81S-325 DIESEL ENGINE

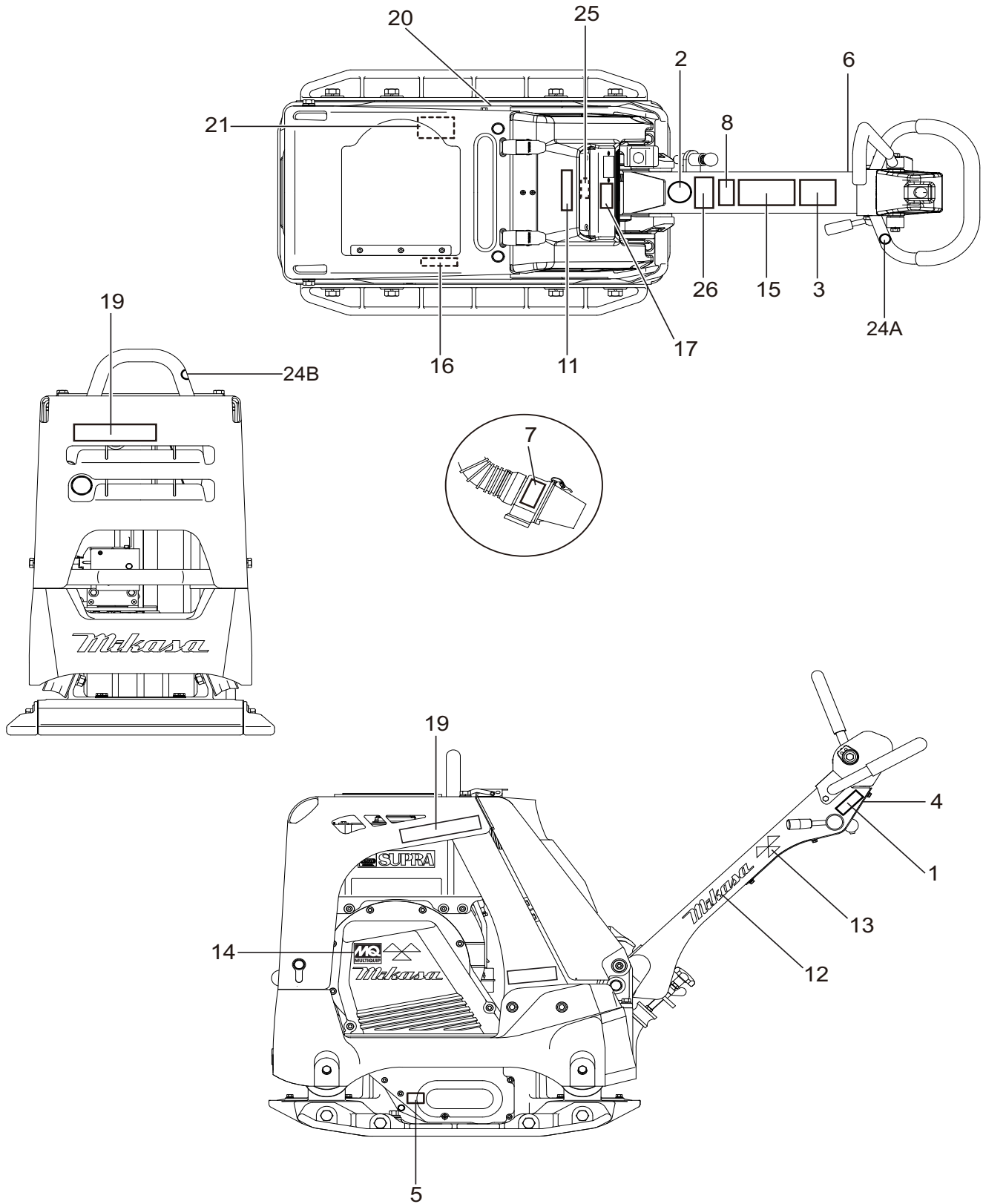
1 to 5 units

| Qty.   | P/N            | Description                   |
|--------|----------------|-------------------------------|
| 4..... | 070200483..... | V-BELT                        |
| 4..... | 939010010..... | SHOCK ABSORBER, STOPPER       |
| 3..... | 50478800.....  | FUEL FILTER, IN-LINE          |
| 4..... | 939010370..... | SHOCK ABSORBER                |
| 1..... | 50384401.....  | IGNITION SWITCH               |
| 3..... | 50404900.....  | KEY, IGNITION SWITCH          |
| 1..... | 50385801.....  | CAP, FUEL TANK                |
| 1..... | 50387300.....  | FUEL SIEVE                    |
| 3..... | 01493000.....  | ELEMENT, AIR FILTER           |
| 3..... | 01480001.....  | ELEMENT, OIL FILTER W/ O-RING |
| 1..... | 50272201.....  | OIL PRESSURE SWITCH           |

#### NOTICE

Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.

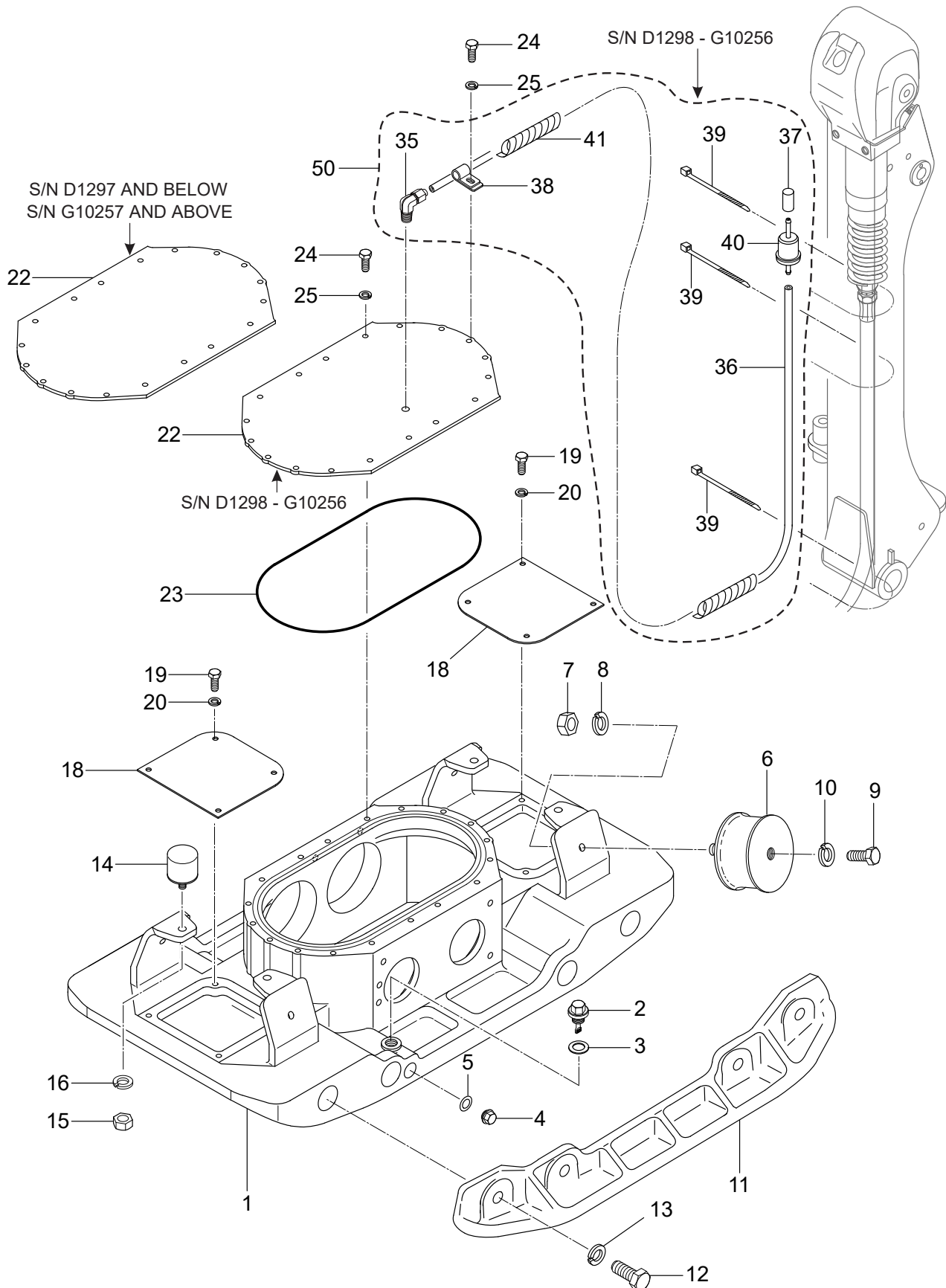
# NAMEPLATE AND DECALS ASSY.



## NAMEPLATE AND DECALS ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>              | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-------------------------------|-------------|----------------|
| 1          | 920204580       | DECAL, FULL THROTTLE          | 1           |                |
| 2          | 920203330       | DECAL, EAR PROTECTION         | 1           |                |
| 3          | 920211060       | DECAL, CAUTION LEVER          | 1           |                |
| 4          | 920211090       | DECAL, SHELL TELLUS OIL 32    | 1           |                |
| 5          | 920201950       | DECAL, OIL SAE 10W-30         | 1           |                |
| 6          | 920106760       | DECAL, STOP-RUN-START         | 1           |                |
| 7          | 920214200       | DECAL, CAUTION CYCLONE        | 1           |                |
| 8          | 920214100       | DECAL, E/G FIRE WARNING       | 1           |                |
| 12         | 920217130       | DECAL, MIKASA MARK(W) 200L    | 2           |                |
| 13         | 920217110       | DECAL, MIKASA MARK 35X70      | 2           |                |
| 14         | 920201580       | DECAL, MQ MARK 71X55          | 1           |                |
| 15         | 920218390       | DECAL, CAUTION                | 1           |                |
| 16         | 920217700       | DECAL, V-BELT HDPF-5480       | 1           |                |
| 17         | 920218150       | DECAL, E/G RPM 2400           | 1           |                |
| 19         | 920217810       | DECAL, MODEL (R)              | 2           |                |
| 20         | 920217820       | DECAL, MODEL (L)              | 1           |                |
| 21         |                 | PLATE, SERIAL NO.             | 1           |                |
| 24A        | 920900090       | DECAL, SET, DO NOT LIFT       | 1           |                |
| 24B        | 920900090       | DECAL, SET, LIFTING POSITION  | 1           |                |
| 25         | 920217890       | DECAL, MODEL MVH-508          | 1           |                |
| 26         | 920222240       | DECAL, WARNING PROPOSITION 65 | 1           |                |

# VIBRATING PLATE ASSY.

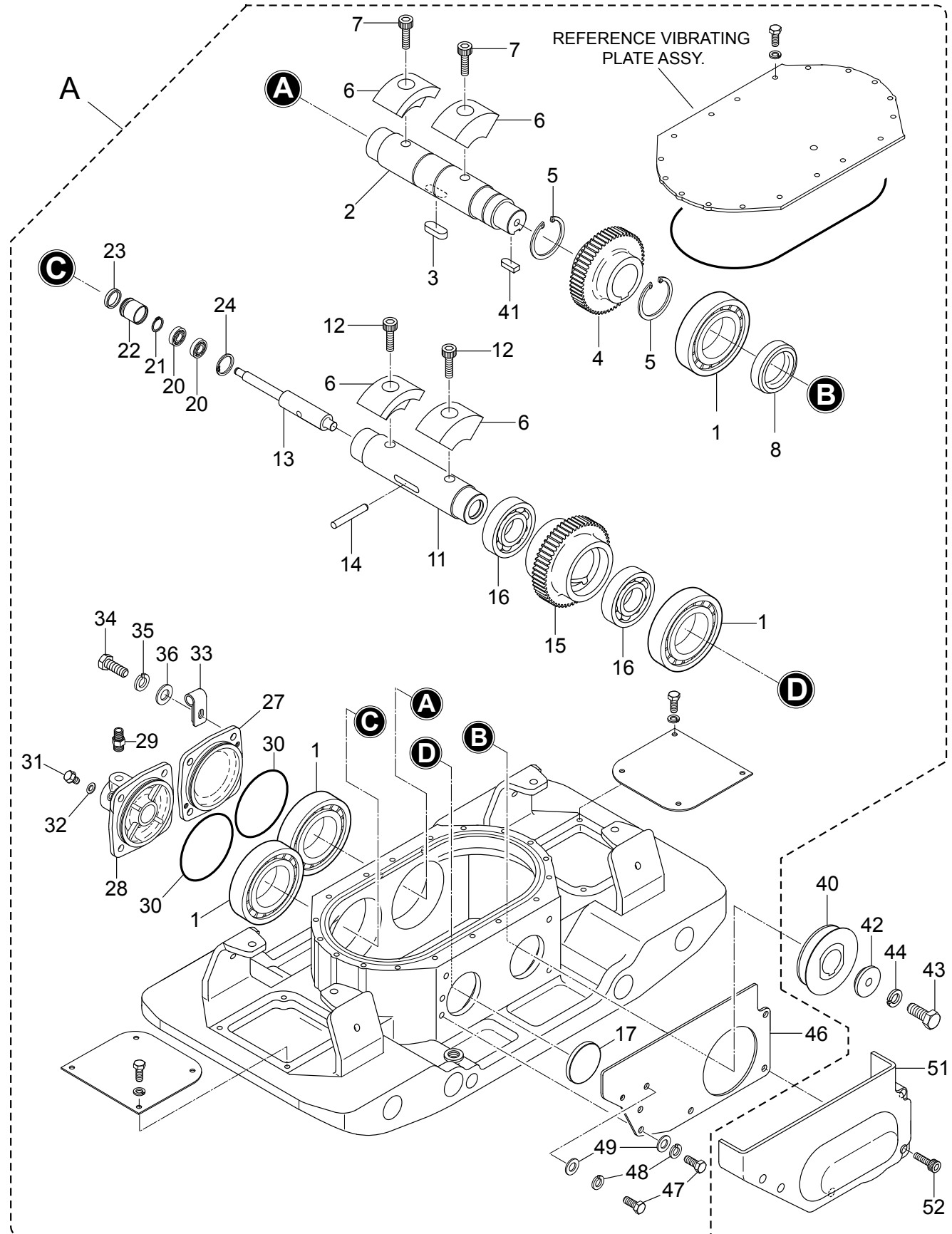




## VIBRATING PLATE ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                | <u>QTY.</u> | <u>REMARKS</u>                           |
|------------|-----------------|---------------------------------|-------------|------------------------------------------|
| 1          | 468121201       | VIBRATING PLATE                 | 1           |                                          |
| 2          | 465460670       | OIL GAUGE                       | 1           |                                          |
| 3          | 953402930       | COPPER PACKING                  | 1           |                                          |
| 4          | 953400270       | PLUG                            | 1           |                                          |
| 5          | 953405260       | PACKING 1/4                     | 1           |                                          |
| 6          | 939010392       | SHOCK ABSORBER                  | 4           |                                          |
| 7          | 020316130       | NUT M16                         | 4           |                                          |
| 8          | 030216400       | WASHER, LOCK M16                | 4           |                                          |
| 9          | 001221635       | BOLT 16X35                      | 4           |                                          |
| 10         | 030216400       | WASHER, LOCK M16                | 4           |                                          |
| 11         | 467219050       | EXTENSION PLATE                 | 2           |                                          |
| 12         | 012218050       | BOLT 18X50 .....                | 8.....      | REPLACES P/N 001221850                   |
| 13         | 58407           | WASHER, LOCK M18 .....          | 8.....      | REPLACES P/N 030218460                   |
| 14         | 939010010       | SHOCK ABSORBER, STOPPER         | 4           |                                          |
| 15         | 020310080       | NUT M10                         | 4           |                                          |
| 16         | 030210250       | WASHER, LOCK M10                | 4           |                                          |
| 18         | 468352110       | COVER, VIBRATING PLATE          | 2           |                                          |
| 19         | 014208020       | BOLT 8X20 .....                 | 8.....      | REPLACES P/N 001220820                   |
| 20         | 030208200       | WASHER, LOCK M8                 | 8           |                                          |
| 22         | 467351790       | COVER, VIBRATOR .....           | 1.....      | S/N D1297 AND BELOW                      |
| 22         | 467355940       | COVER, VIBRATOR, BREATHER ..... | 1.....      | S/N D1298 - G10266                       |
| 22         | 467351790       | COVER, VIBRATOR.....            | 1.....      | S/N G10267 AND ABOVE                     |
| 23         | 050103250       | O-RING                          | 1           |                                          |
| 24         | 014208020       | BOLT 8X20.....                  | 18.....     | REPLACES P/N 001220820                   |
| 25         | 030208200       | WASHER, LOCK M8                 | 18          |                                          |
| 35#        | 954410070       | 90° ELBOW.....                  | 1.....      | S/N D1298 - G10266                       |
| 36#        | 959029202       | TUBE, NYLON.....                | 1.....      | S/N D1298 - G10266                       |
| 37#        | 467471710       | ELEMENT, BREATHER .....         | 1.....      | S/N D1298 - G10266                       |
| 38#        | 959408920       | CLIP, M8.....                   | 1.....      | S/N D1298 - G10266                       |
| 39#        | 507010110       | CLAMP .....                     | 3.....      | S/N D1298 - G10266                       |
| 40#        | 16910GB2005     | FUEL FILTER, IN-LINE .....      | 1.....      | S/N D1298 - G10266                       |
| 41#        | 959021810       | SPRIAL TUBE.....                | 1.....      | S/N D1298 - G10266                       |
| 50         | 469910040       | AIR BREATHER TUBE .....         | 1.....      | INCLUDES ITEMS W/#<br>S/N D1298 - G10266 |

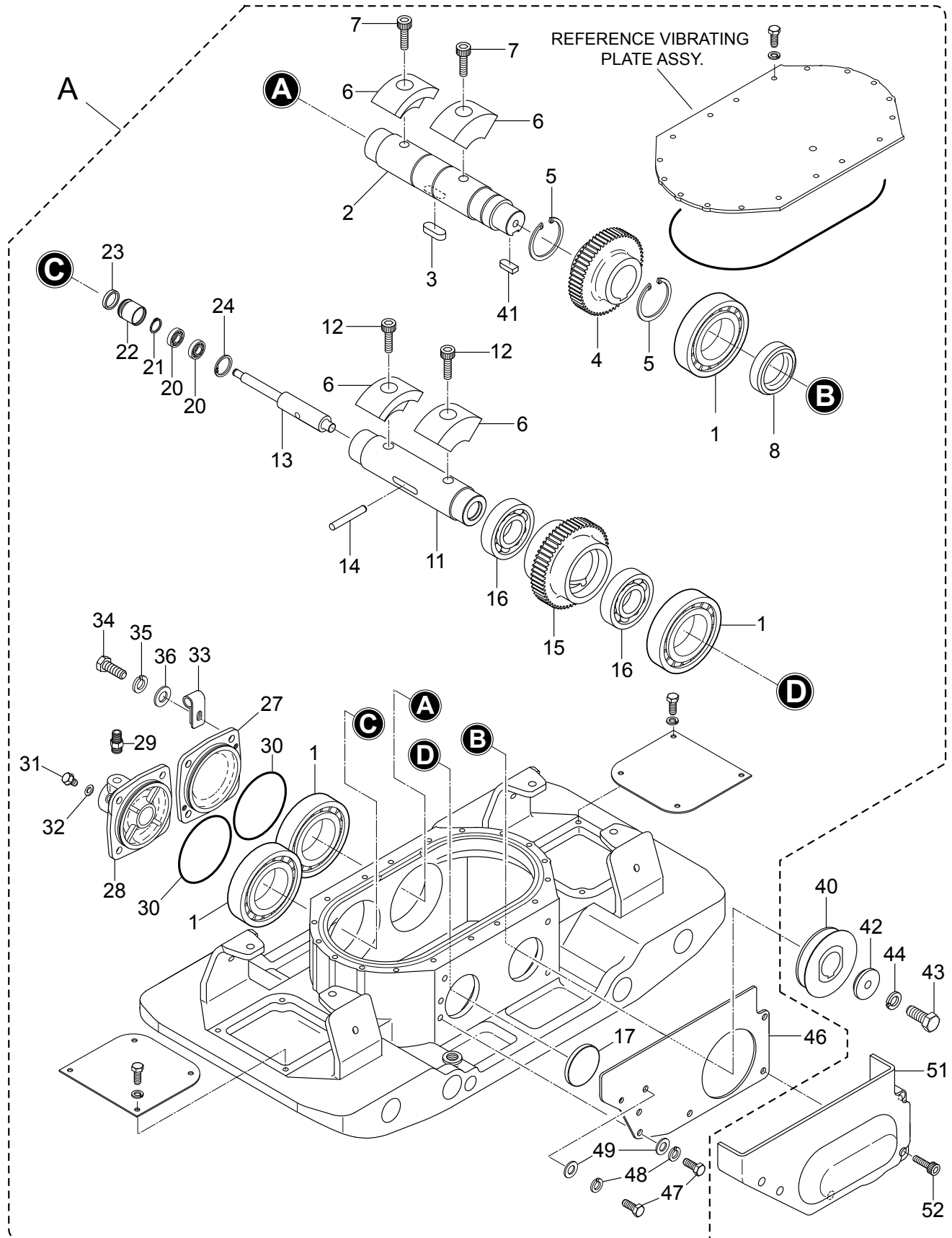
# VIBRATOR ASSY.



## VIBRATOR ASSY.

| NO.    | PART NO.   | PART NAME                 | QTY.   | REMARKS                                     |
|--------|------------|---------------------------|--------|---------------------------------------------|
| A      | 469910030  | VIBRATING PLATE ASSY..... | 1..... | INCLUDES ITEMS W/#<br>S/N D1297 AND BELOW   |
| A      | 469910031  | VIBRATING PLATE ASSY..... | 1..... | INCLUDES ITEMS W/%<br>S/N D1298 - G10266    |
| A      | 469910032  | VIBRATING PLATE ASSY..... | 1..... | INCLUDES ITEMS W/\$<br>S/N G10267 AND ABOVE |
| 1#%\$  | 047920120  | ROLLER BEARING            | 4      |                                             |
| 2#     | 456331060  | ROTARY SHAFT, DRIVE ..... | 1..... | S/N D1297 AND BELOW                         |
| 2%     | 467355910  | ROTARY SHAFT, DRIVE ..... | 1..... | S/N D1298 - G10266                          |
| 2%\$   | 467910070  | ROTARY SHAFT, DRIVE ..... | 1..... | S/N G10267 AND ABOVE                        |
| 3#%\$  | 951405370  | KEY 15X10X39              | 1      |                                             |
| 4#%\$  | 456327150  | GEAR, DRIVE               | 1      |                                             |
| 5#%\$  | 080200550  | STOP RING                 | 2      |                                             |
| 6#%\$  | 469352310  | ECCENTRIC ROTATOR         | 4      |                                             |
| 7#%\$  | 009120301  | SOCKET HEAD BOLT 16X40    | 2      |                                             |
| 8#     | 060105030  | OIL SEAL .....            | 1..... | S/N D1297 AND BELOW                         |
| 8%\$   | 060405040  | OIL SEAL .....            | 1..... | S/N D1298 AND ABOVE                         |
| 11#%\$ | 456337670  | ROTARY SHAFT, DRIVEN      | 1      |                                             |
| 12#%\$ | 009120302  | SOCKET HEAD BOLT 16X30    | 2      |                                             |
| 13#%\$ | 456337380  | PISTON ROD                | 1      |                                             |
| 14#%\$ | 456010010  | KNOCK PIN 10X70           | 1      |                                             |
| 15#%\$ | 467351910  | GEAR (DRIVEN)             | 1      |                                             |
| 16#%\$ | 040306911  | BEARING                   | 2      |                                             |
| 17#%\$ | 953010030  | SEAL CAP                  | 1      |                                             |
| 20#%\$ | 042506000  | BEARING 6000ZZSG          | 2      |                                             |
| 21#%\$ | 0080000010 | STOP RING .....           | 1..... | REPLACES P/N 080200100                      |
| 22#%\$ | 455435051  | PISTON                    | 1      |                                             |
| 23#%\$ | 455010070  | PACKING                   | 1      |                                             |
| 24#%\$ | 080100260  | STOP RING                 | 1      |                                             |
| 27#%\$ | 467352540  | BEARING COVER             | 1      |                                             |
| 28#%\$ | 467219070  | CYLINDER (R)              | 1      |                                             |
| 29#%\$ | 954010020  | CONNECTOR PT, PF 1/4      | 1      |                                             |
| 30#%\$ | 050101050  | O-RING                    | 2      |                                             |
| 31#%\$ | 001720812  | FLANGE BOLT 8X12          | 1      |                                             |
| 32#%\$ | 953404600  | COPPER PACKING            | 1      |                                             |
| 33#%\$ | 959408880  | CLIP 15 (M10)             | 1      |                                             |
| 34#%\$ | 0105091025 | BOLT 10X25.....           | 8..... | REPLACES P/N 001221025                      |
| 35#%\$ | 030210250  | WASHER, LOCK M10          | 8      |                                             |
| 36#%\$ | 031110160  | WASHER, FLAT M10          | 8      |                                             |
| 40     | 469352320  | PULLEY                    | 1      |                                             |
| 41#%\$ | 951404970  | KEY 12X8X30               | 1      |                                             |
| 42     | 456437920  | WASHER, PULLEY.....       | 1..... | S/N G10266 AND BELOW                        |
| 42     | 468474700  | WASHER, PULLEY.....       | 1..... | S/N G10267 AND ABOVE                        |
| 43     | 012212035  | BOLT 12X35.....           | 1..... | REPLACES P/N 001221235                      |
| 44     | 030212300  | WASHER, LOCK M12          | 1      |                                             |
| 46#%\$ | 467351920  | GUIDE, BELT COVER         | 1      |                                             |

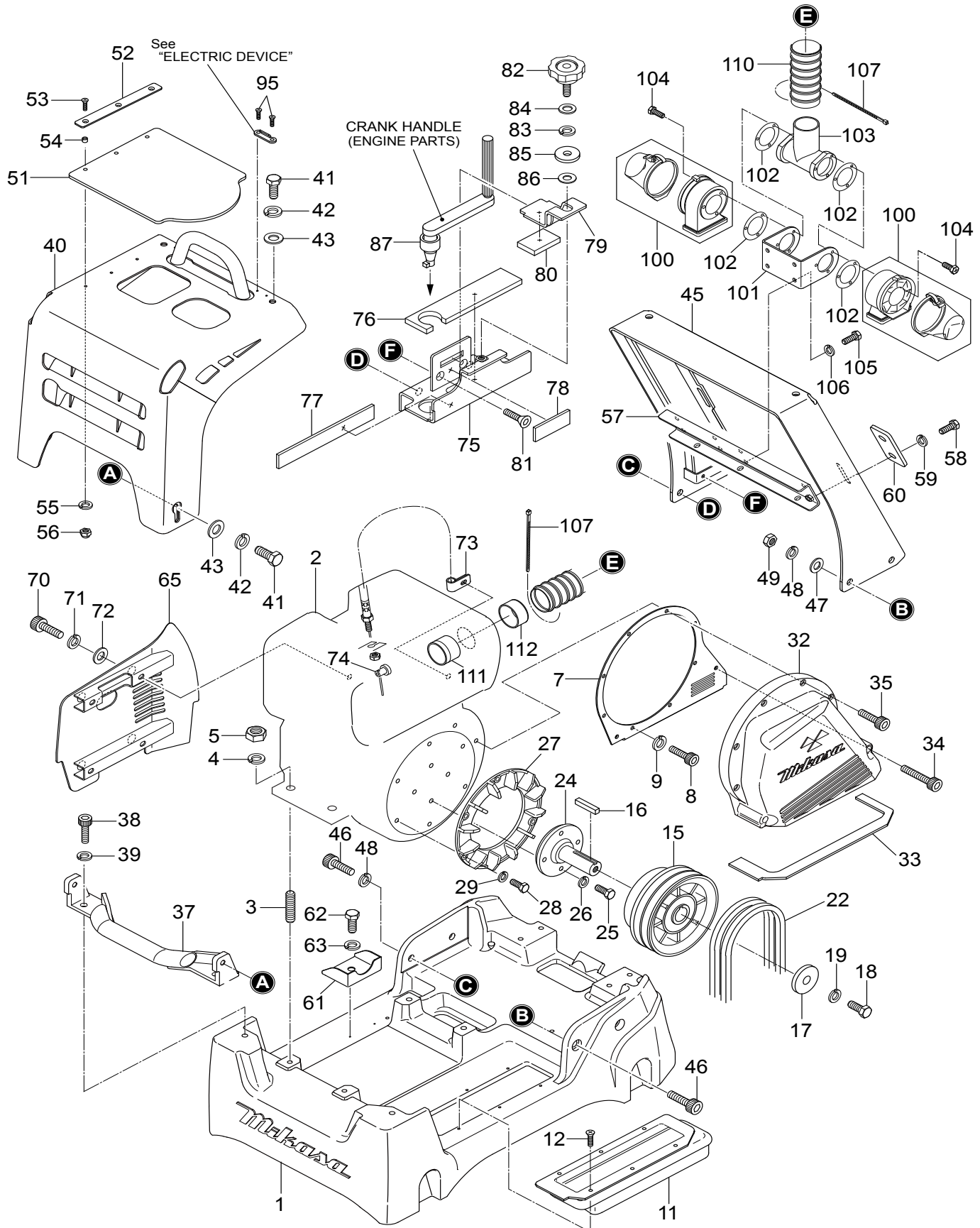
# VIBRATOR ASSY. (CONT'D.)



## VIBRATOR ASSY. (CONT'D.)

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>       | <u>QTY.</u> | <u>REMARKS</u>         |
|------------|-----------------|------------------------|-------------|------------------------|
| 47#%\$     | 014208020       | BOLT 8X20.....         | 2.....      | REPLACES P/N 001220820 |
| 48#%\$     | 030208200       | WASHER, LOCK M8        | 2           |                        |
| 49#%\$     | 0401450080      | WASHER, FLAT M8 .....  | 2.....      | REPLACES P/N 031108160 |
| 51         | 469219030       | BELT COVER, LOWER      | 1           |                        |
| 52         | 001520860       | SOCKET HEAD BOLT 8X100 | 5           |                        |

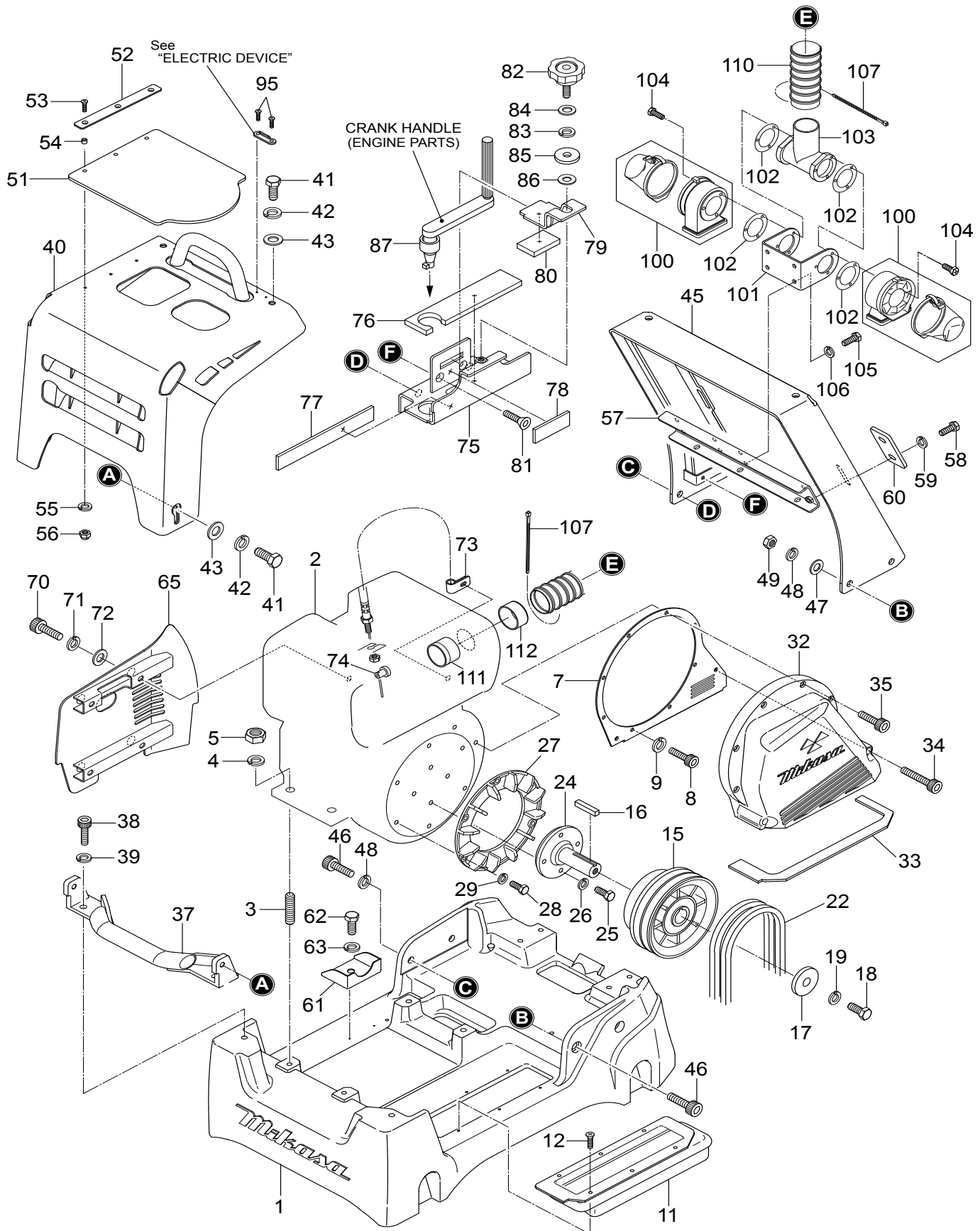
# BASE AND ENGINE ASSY.



## BASE AND ENGINE ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>            | <u>QTY.</u> | <u>REMARKS</u>         |
|------------|-----------------|-----------------------------|-------------|------------------------|
| 1          | 469121280       | BASE                        | 1           |                        |
| 2          | 918401200       | ENGINE ASSY.                | 1           |                        |
| 3          | 009120205       | STUD BOLT 12X25             | 4           |                        |
| 4          | 030212300       | WASHER, LOCK M12            | 4           |                        |
| 5          | 0039312000      | NUT M12 .....               | 4           | REPLACES P/N 020312100 |
| 7          | 469352260       | BELT COVER, IN              | 1           |                        |
| 8          | 014210020       | SOCKET HEAD BOLT 10X20..... | 3           | REPLACES P/N 001521020 |
| 9          | 030210250       | WASHER, LOCK M10            | 3           |                        |
| 11         | 469218980       | DUST COVER                  | 1           |                        |
| 12         | 092006010       | FLAT HEAD SCREW 6X10        | 6           |                        |
| 15         | 469352390       | CLUTCH ASSY.                | 1           |                        |
| 16         | 951010130       | KEY 7X7X49                  | 1           |                        |
| 17         | 952401390       | WASHER 11X40X6              | 1           |                        |
| 18         | 0105091025      | BOLT 10X25.....             | 1           | REPLACES P/N 001221025 |
| 19         | 030210250       | WASHER, LOCK M10            | 1           |                        |
| 22         | 070200483       | V-BELT, HDPF-5480           | 2           |                        |
| 24         | 457339571       | STUB SHAFT FAN              | 1           |                        |
| 25         | 011208030       | BOLT 8X30.....              | 4           | REPLACES P/N 001220830 |
| 26         | 030208200       | WASHER, LOCK M8             | 4           |                        |
| 27         | 457336380       | FAN                         | 1           |                        |
| 28         | 014208020       | BOLT 8X20.....              | 6           | REPLACES P/N 001220820 |
| 29         | 030208200       | WASHER, LOCK M8             | 6           |                        |
| 32         | 469218990       | BELT COVER (OUT)            | 1           |                        |
| 33         | 469352270       | DUST SPONGE (OUT)           | 1           |                        |
| 34         | 001521058       | SOCKET HEAD BOLT 10X90      | 2           |                        |
| 35         | 001521045       | SOCKET HEAD BOLT 10X45      | 5           |                        |
| 37         | 469352280       | FRONT BUMPER                | 1           |                        |
| 38         | 001521435       | SOCKET HEAD BOLT 14X35      | 2           |                        |
| 39         | 030214350       | WASHER, LOCK M14            | 2           |                        |
| 40         | 469121290       | FRONT COVER                 | 1           |                        |
| 41         | 001221435       | BOLT 14X35 T                | 4           |                        |
| 42         | 030214350       | WASHER, LOCK M14            | 4           |                        |
| 43         | 031114260       | WASHER, FLAT M14            | 4           |                        |
| 45         | 469219330       | CENTER COVER                | 1           |                        |
| 46         | 001521440       | SOCKET HEAD BOLT 14X40      | 4           |                        |
| 47         | 031114260       | WASHER, FLAT M14            | 2           |                        |
| 48         | 030214350       | WASHER, LOCK M14            | 4           |                        |
| 49         | 020314110       | NUT M14                     | 2           |                        |
| 51         | 468466890       | RUBBER COVER, UPPER         | 1           |                        |
| 52         | 467466760       | STOPPER COVER               | 1           |                        |
| 53         | 009120424       | SOCKET HEAD BOLT 6X25       | 3           |                        |
| 54         | 617465130       | COLLAR 6.2X7.8X4.5          | 3           |                        |
| 55         | 030206150       | WASHER, LOCK M6             | 3           |                        |
| 56         | 022710607       | NYLON NUT M6                | 3           |                        |

# **BASE AND ENGINE ASSY. (CONT'D.)**

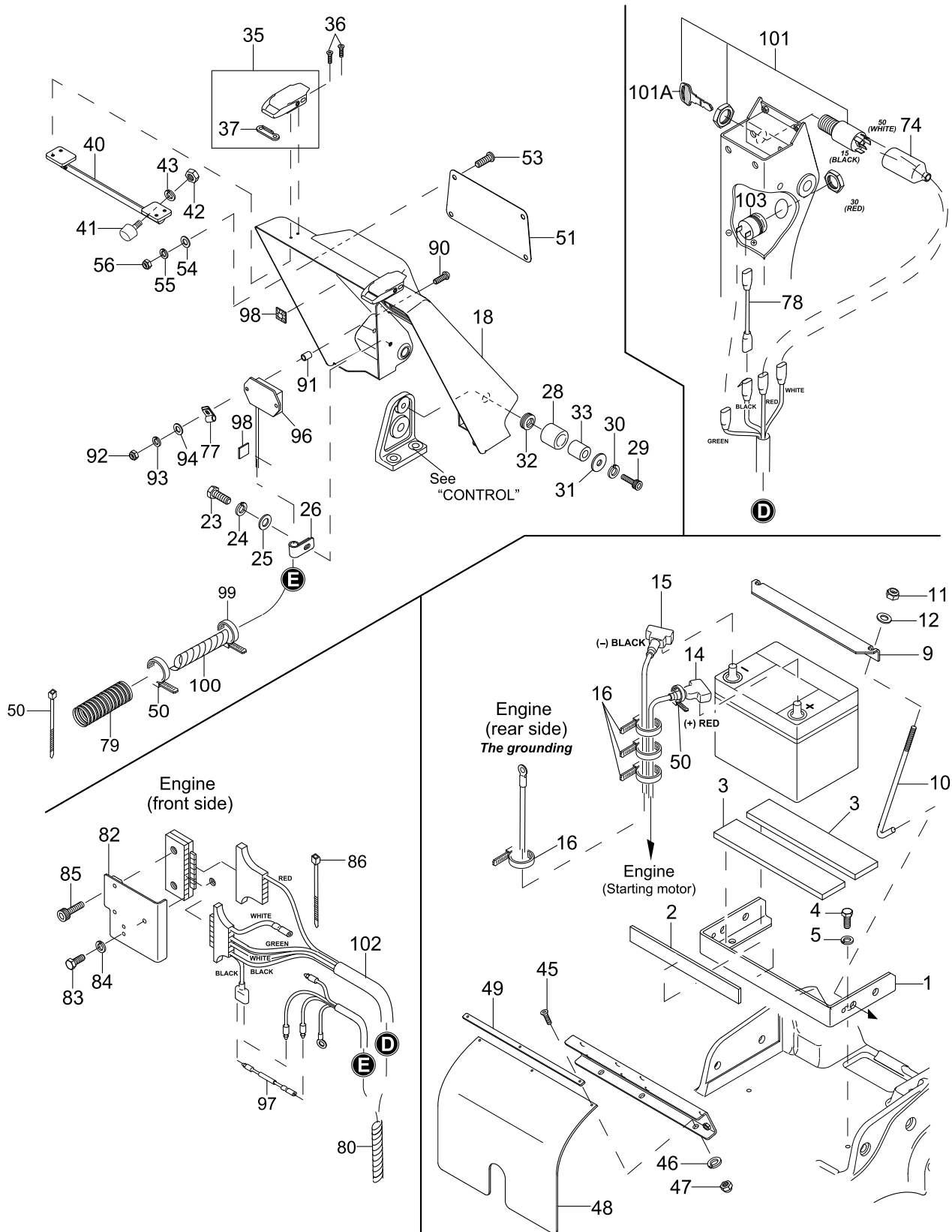




## BASE AND ENGINE ASSY. (CONT'D.)

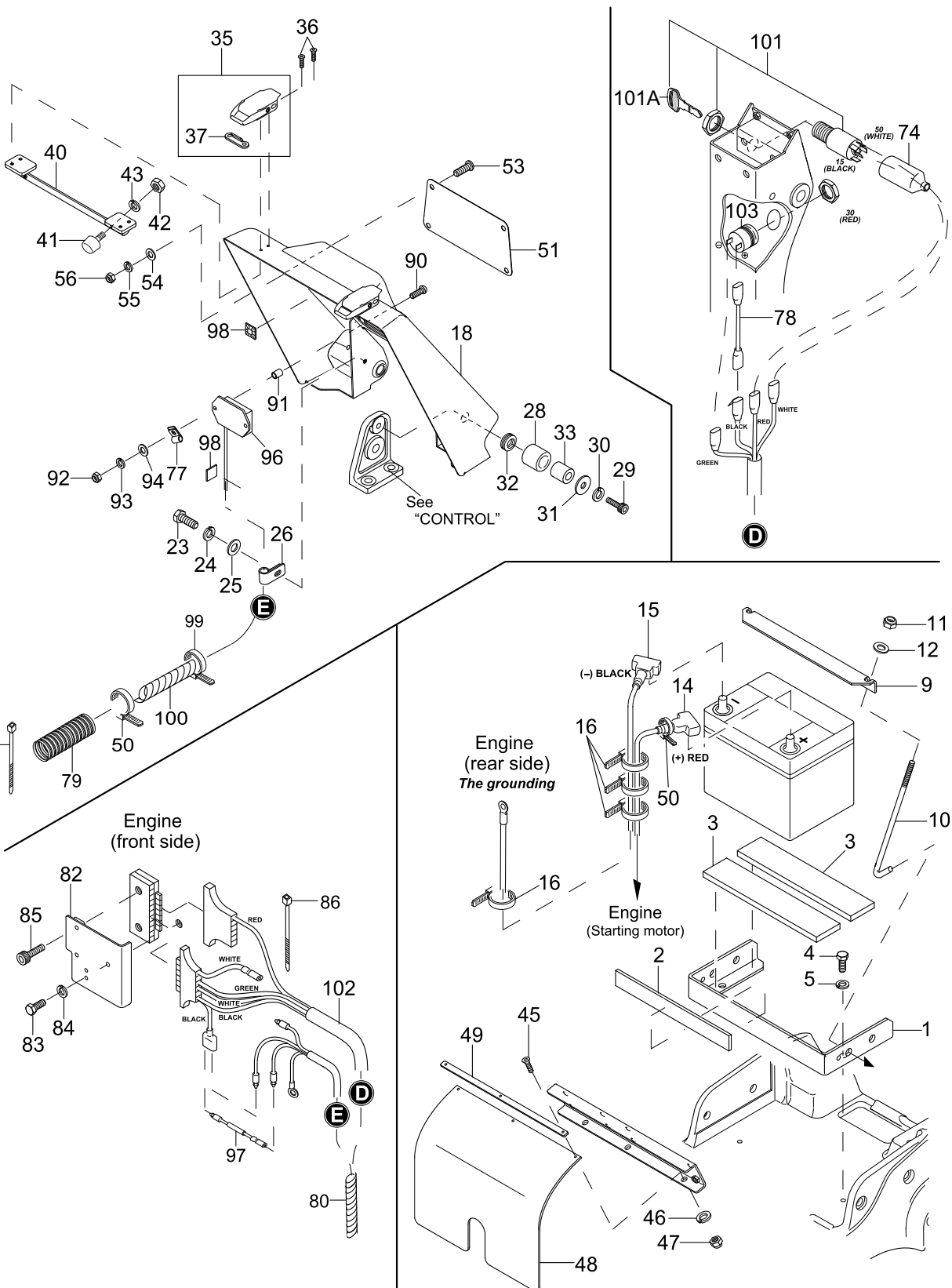
| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>          | <u>QTY.</u> | <u>REMARKS</u>         |
|------------|-----------------|---------------------------|-------------|------------------------|
| 57         | 469352890       | CLEANER STAY              | 1           |                        |
| 58         | 011208025       | BOLT 8X25.....            | 4           | REPLACES P/N 001220825 |
| 59         | 030208200       | WASHER, LOCK M8           | 4           |                        |
| 60         | 467467580       | PLATE, CLEANER STAY       | 2           |                        |
| 61         | 469467000       | GUIDE, DRAIN              | 1           |                        |
| 62         | 011008015       | BOLT 8X15 .....           | 1           | REPLACES P/N 001220815 |
| 63         | 030208200       | WASHER, LOCK M8           | 1           |                        |
| 65         | 469219010       | SIDE COVER                | 1           |                        |
| 70         | 001521251       | SOCKET HEAD BOLT 12X55    | 4           |                        |
| 71         | 030212300       | WASHER, LOCK M12          | 4           |                        |
| 72         | 031112230       | WASHER, FLAT M12          | 4           |                        |
| 73         | 2067550101      | CLAMP COMPLETE            | 1           |                        |
| 74         | DH50642000      | CLAMP                     | 1           |                        |
| 75         | 469219120       | HOLDER, CRANK HANDLE      | 1           |                        |
| 76         | 469467320       | POLYURETHANE SEAT 222X50  | 1           |                        |
| 77         | 469467310       | POLYURETHANE SEAT 220X30  | 1           |                        |
| 78         | 469467300       | POLYURETHANE SEAT 80X30X5 | 1           |                        |
| 79         | 469352530       | HOLDER, CRANK HANDLE      | 1           |                        |
| 80         | 469467330       | POLYURETHANE SEAT 60X40   | 1           |                        |
| 81         | 009120408       | SUNK HEAD BOLT 8X20       | 2           |                        |
| 82         | 959406961       | GRIP BOLT 45X10X30        | 1           |                        |
| 83         | 030210250       | WASHER, LOCK M10          | 1           |                        |
| 84         | 031110160       | WASHER, FLAT M10          | 1           |                        |
| 85         | 952403450       | WASHER 11X35X4.5          | 1           |                        |
| 86         | 952008940       | SEAL WASHER 10X17X1.6     | 1           |                        |
| 87         | 469467190       | RUBBER PIPE 25X33X20      | 1           |                        |
| 95         | 009120420       | SOCKET HEAD BOLT 5X10     | 4           |                        |
| 100        | 466218080       | CLEANER, CYCLONE          | 2           |                        |
| 101        | 469352300       | CYCLONE STAY              | 1           |                        |
| 102        | 466462850       | GASKET, AIR INTAKE        | 4           |                        |
| 103        | 469219020       | JOINT CLEANER             | 1           |                        |
| 104        | 009110057       | SOCKET HEAD BOLT 5X18     | 6           |                        |
| 105        | 011008015       | BOLT 8X15 T.....          | 4           | REPLACES P/N 001220815 |
| 106        | 030208200       | WASHER, LOCK M8           | 4           |                        |
| 107        | 506010060       | CLAMP                     | 2           |                        |
| 110        | 466348590       | DUCT HOSE 50X270          | 1           |                        |
| 111        | 469467010       | INTAKE PIPE               | 1           |                        |
| 112        | 466462840       | DUCT GROMMET              | 1           |                        |

# ELECTRIC DEVICE ASSY.



## ELECTRIC DEVICE ASSY.

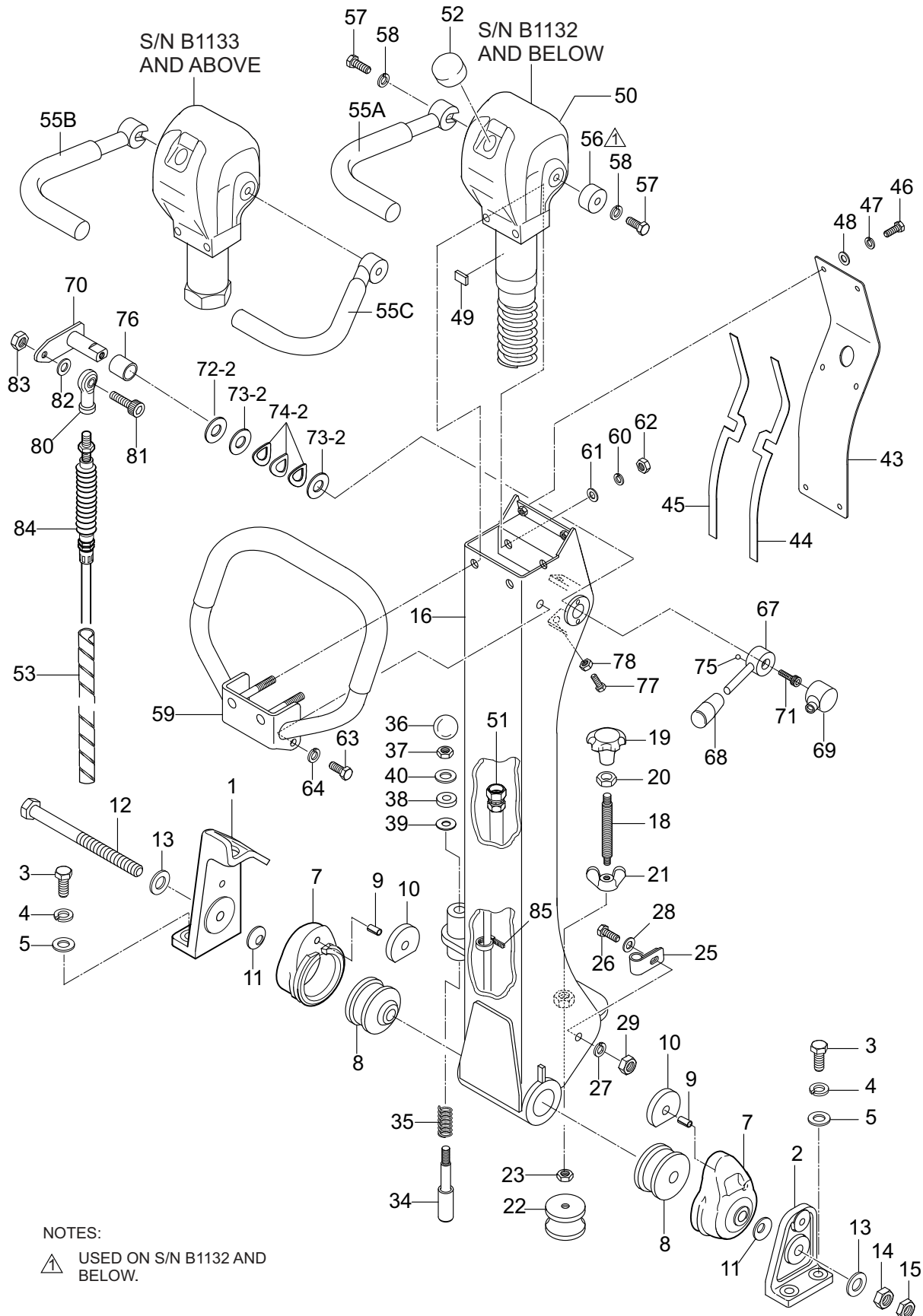
| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>       | <u>QTY.</u> | <u>REMARKS</u>         |
|------------|-----------------|------------------------|-------------|------------------------|
| 1          | 467218920       | BATTERY HOLDER         | 1           |                        |
| 2          | 456447590       | RUBBER PLATE (E)       | 1           |                        |
| 3          | 456447600       | RUBBER PLATE           | 2           |                        |
| 4          | 012210020       | BOLT 10X20.....        | 2.....      | REPLACES P/N 001221020 |
| 5          | 030210250       | WASHER, LOCK M10       | 2           |                        |
| 9          | 464313740       | HOLDER, BATTERY        | 1           |                        |
| 10         | 469467170       | TIE-DOWN ROD, BATTERY  | 2           |                        |
| 11         | 022710809       | NYLON NUT M8           | 2           |                        |
| 12         | 0401450080      | WASHER, FLAT M8 .....  | 2.....      | REPLACES P/N 031108160 |
| 14         | 955301030       | BATTERY CABLE (+)      | 1           |                        |
| 15         | 955301040       | BATTERY CABLE (-)      | 1           |                        |
| 16         | 506010070       | CLAMP                  | 4           |                        |
| 18         | 469121300       | REAR COVER             | 1           |                        |
| 23         | 014208020       | BOLT 8X20 T .....      | 1.....      | REPLACES P/N 001220820 |
| 24         | 030208200       | WASHER, LOCK M8        | 1           |                        |
| 25         | 0401450080      | WASHER, FLAT M8 .....  | 1.....      | REPLACES P/N 031108160 |
| 26         | 959408920       | CLIP 8 (M8)            | 1           |                        |
| 28         | 404433430       | RUBBER                 | 2           |                        |
| 29         | 001521051       | SOCKET HEAD BOLT 10X55 | 2           |                        |
| 30         | 030210250       | WASHER, LOCK M10       | 2           |                        |
| 31         | 952403450       | WASHER                 | 2           |                        |
| 32         | 467467250       | RUBBER WASHER          | 2           |                        |
| 33         | 417454420       | COLLAR                 | 2           |                        |
| 35         | 469467470       | CATCH CLIP .....       | 2.....      | INCLUDES ITEM W/\$     |
| 36         | 009120421       | SOCKET HEAD BOLT 5X15  | 4           |                        |
| 37\$       | 169467480       | HOLDER, CATCH CLIP     | 2           |                        |
| 40         | 469352340       | BRACKET, STOPPER       | 1           |                        |
| 41         | 939010360       | STOPPER, RUBBER        | 2           |                        |
| 42         | 020108060       | NUT M8 .....           | 2.....      | REPLACES P/N 020308060 |
| 43         | 030208200       | WASHER, LOCK M8        | 2           |                        |
| 45         | 001220520       | BOLT 5X20              | 3           |                        |
| 46         | 030205130       | WASHER, LOCK M5        | 3           |                        |
| 47         | 022710506       | NYLON NUT M5           | 3           |                        |
| 48         | 467466930       | RUBBER PLATE, BATTERY  | 1           |                        |
| 49         | 467466920       | STOPPER, RUB-PLATE     | 1           |                        |
| 50         | 454010020       | CLAMP                  | 7           |                        |



## ELECTRIC DEVICE ASSY. (CONT'D.)

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                        | <u>QTY.</u> | <u>REMARKS</u>         |
|------------|-----------------|-----------------------------------------|-------------|------------------------|
| 51         | 467352050       | PANEL, REAR COVER                       | 1           |                        |
| 53         | 009110062       | SOCKET HEAD SCREW 6X20                  | 4           |                        |
| 54         | 952404470       | WASHER, FLAT M6 .....                   | 4           | REPLACES P/N 031106100 |
| 55         | 030206150       | WASHER, LOCK M6                         | 4           |                        |
| 56         | 022710607       | NYLON NUT M6                            | 4           |                        |
| 74         | 470468770       | PROTECTIVE COVER, IGNITION SWITCH ..... | 1           | S/N E1491 AND ABOVE    |
| 77         | 954409880       | CLAMP M6                                | 1           |                        |
| 78         | 465459680       | RELAY CABLE/BUZZER                      | 1           |                        |
| 79         | 959026021       | CORRUGATE TUBE                          | 1           |                        |
| 80         | 959020014       | SPIRAL TUBE                             | 1           |                        |
| 82         | 469352400       | PANEL, WITH BUZZER                      | 1           |                        |
| 83         | 001220635       | BOLT 6X35                               | 1           |                        |
| 84         | 030206150       | WASHER, LOCK M6                         | 1           |                        |
| 85         | 001520530       | SOCKET HEAD BOLT 5X30                   | 2           |                        |
| 86         | 506010070       | CLAMP                                   | 1           |                        |
| 90         | 009110072       | PAN HEAD SCREW 5X35                     | 2           |                        |
| 91         | 952407930       | COLLAR 6X10X13.5                        | 2           |                        |
| 92         | 022710506       | NYLON NUT M5                            | 2           |                        |
| 93         | 030205130       | WASHER, LOCK M5                         | 2           |                        |
| 94         | 58151           | WASHER, FLAT M5 .....                   | 2           | REPLACES P/N 031105080 |
| 96         | 955301020       | TACH. AND HOUR METER                    | 1           |                        |
| 97         | 469467040       | RESISTOR, TACH.                         | 1           |                        |
| 98         | 955407970       | WIRING FIXED BASE                       | 2           |                        |
| 99         | 454010020       | CLAMP M6                                | 1           |                        |
| 100        | 959021813       | SPIRAL TUBE 6D-650L                     | 1           |                        |
| 101        | 50384401        | IGNITION SWITCH W/ KEY .....            | 1           | INCLUDES ITEM W/#      |
| 101A#      | 50404900        | KEY, IGNITION SWITCH                    | 1           |                        |
| 102        | 469352350       | WIRE HARNESS                            | 1           |                        |
| 103        | 50465100        | BUZZER                                  | 1           |                        |

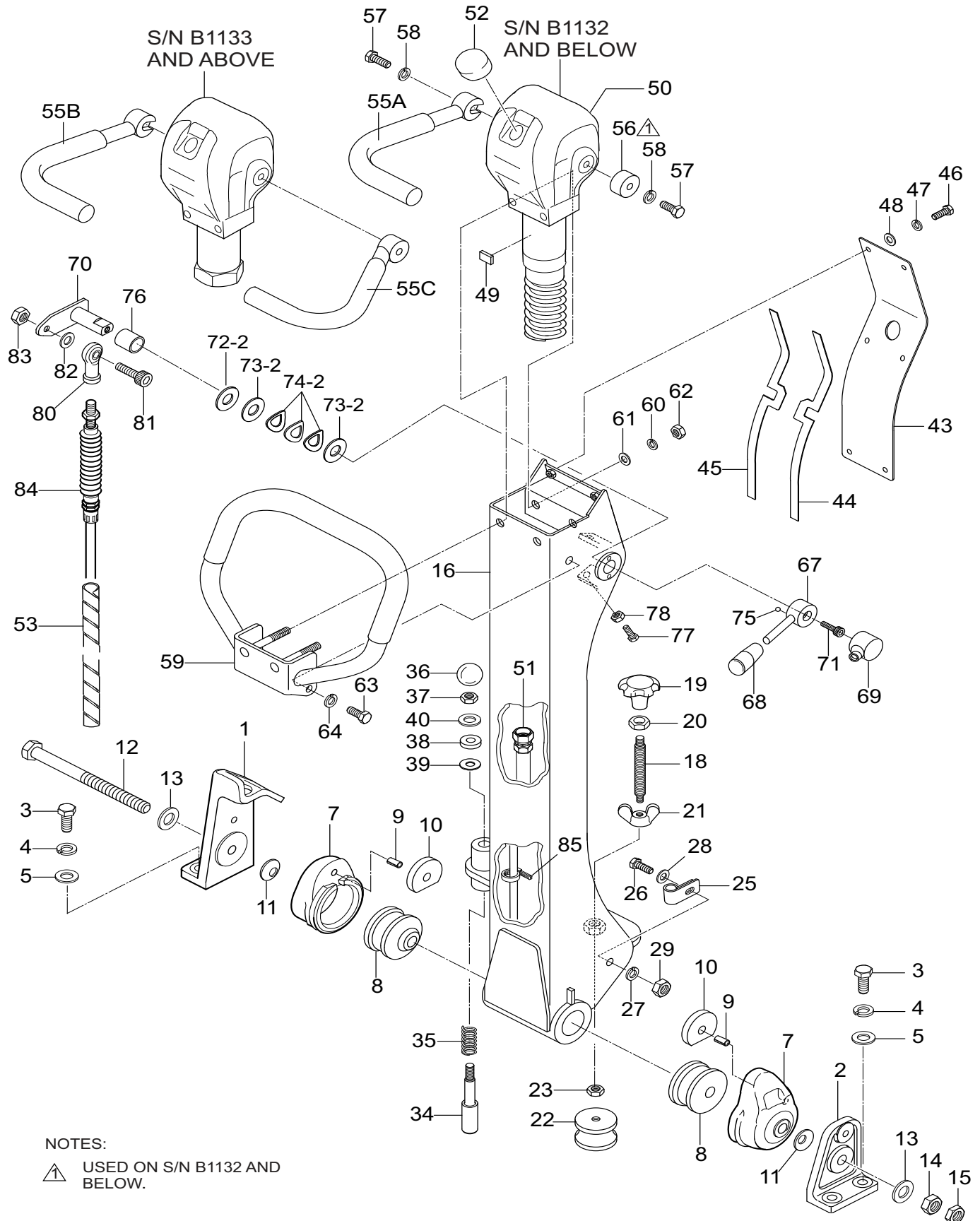
# CONTROL ASSY.



## CONTROL ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>        | <u>QTY.</u> | <u>REMARKS</u>         |
|------------|-----------------|-------------------------|-------------|------------------------|
| 1          | 467351950       | HANDLE BRACKET (R)      | 1           |                        |
| 2          | 467351960       | HANDLE BRACKET (L)      | 1           |                        |
| 3          | 012212035       | BOLT 12X35.....         | 4           | REPLACES P/N 001221235 |
| 4          | 030212300       | WASHER, LOCK M12        | 4           |                        |
| 5          | 031112230       | WASHER, FLAT M12        | 4           |                        |
| 7          | 456336400       | RUBBER COUPLING         | 2           |                        |
| 8          | 456449940       | SHOCK ABSORBER          | 2           |                        |
| 9          | 025306016       | SPRING PIN 6X16 .....   | 2           | REPLACES P/N 025406016 |
| 10         | 456449930       | RUBBER PLATE            | 2           |                        |
| 11         | 032124400       | CONICAL WASHER LOCK M24 | 2           |                        |
| 12         | 001221681       | BOLT 16X250             | 1           |                        |
| 13         | 0401450160      | WASHER, FLAT M16 .....  | 2           | REPLACES P/N 031116260 |
| 14         | 020316130       | NUT M16                 | 1           |                        |
| 15         | 020416100       | NUT M16                 | 1           |                        |
| 16         | 467121170       | HANDLE BAR              | 1           |                        |
| 18         | 455434950       | SPINDLE                 | 1           |                        |
| 19         | 455010030       | KNOB                    | 1           |                        |
| 20         | 020412070       | NUT M12                 | 1           |                        |
| 21         | 022411635       | WING NUT M16            | 1           |                        |
| 22         | 939010060       | SHOCK ABSORBER          | 1           |                        |
| 23         | 020310080       | NUT M10.....            | 1           | REPLACES P/N 020410060 |
| 25         | 959408930       | CLIP                    | 1           |                        |
| 26         | 011206020       | BOLT 6X20.....          | 1           | REPLACES P/N 001220620 |
| 27         | 030206150       | WASHER, LOCK M6         | 1           |                        |
| 28         | 952404470       | WASHER, FLAT M6 .....   | 1           | REPLACES P/N 031106100 |
| 29         | 020106050       | NUT M6 .....            | 1           | REPLACES P/N 020306050 |
| 34         | 501402870       | HANDLE STOPPER          | 1           |                        |
| 35         | 501402880       | SPRING/HANDLE           | 1           |                        |
| 36         | 959403460       | BALL GRIP               | 1           |                        |
| 37         | 020310080       | NUT M10.....            | 1           | REPLACES P/N 020410060 |
| 38         | 456449980       | RUBBER PACKING          | 1           |                        |
| 39         | 953405260       | PACKING 1/4             | 1           |                        |
| 40         | 031110160       | WASHER, FLAT M10        | 1           |                        |
| 43         | 467351970       | HANDLE COVER            | 1           |                        |
| 43         | 467351970       | HANDLE COVER            | 1           |                        |

# CONTROL ASSY. (CONT'D.)

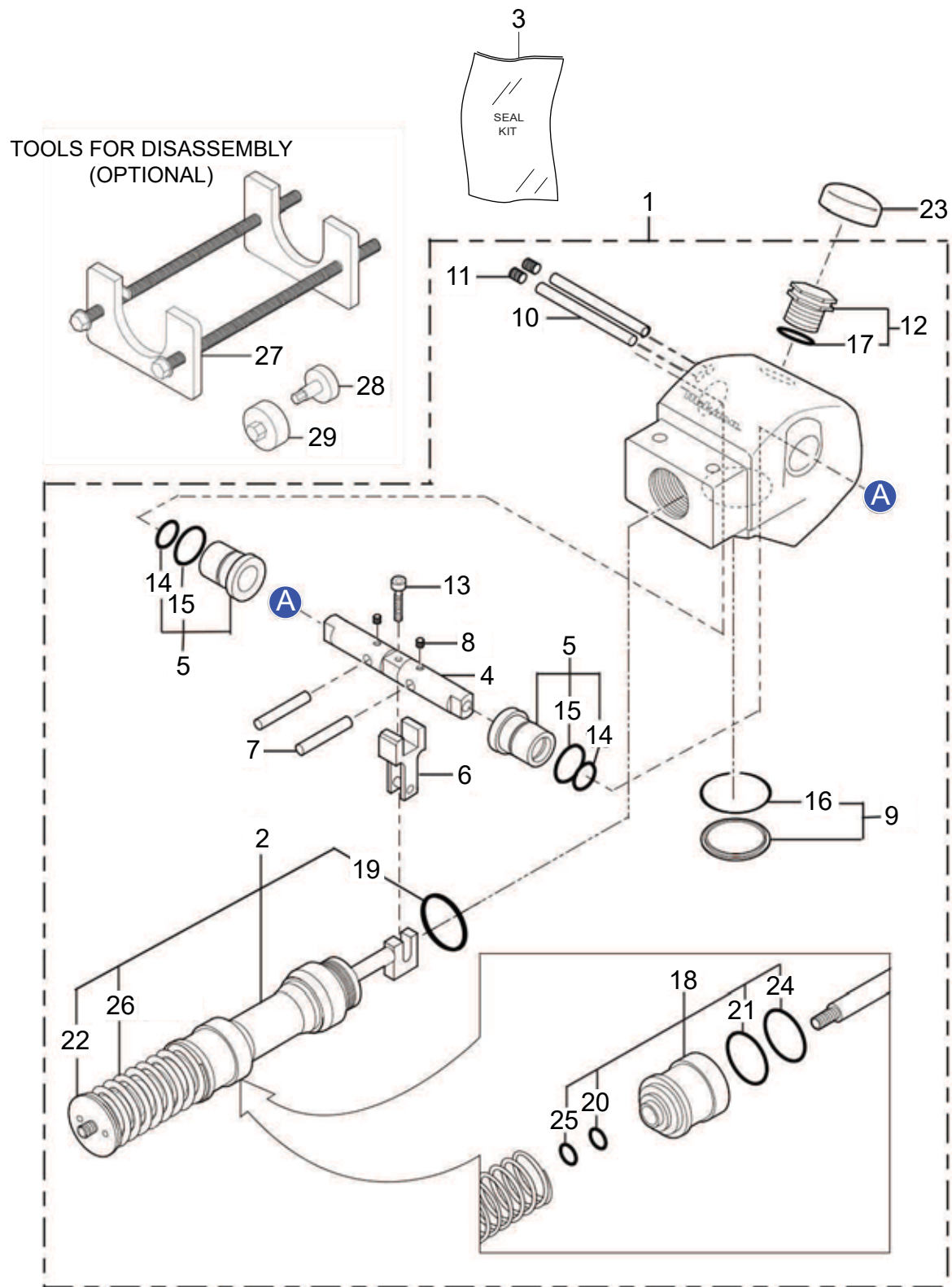




## CONTROL ASSY. (CONT'D.)

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>           | <u>QTY.</u> | <u>REMARKS</u>         |
|------------|-----------------|----------------------------|-------------|------------------------|
| 44         | 467467340       | PACKING (L), HANDLE        | 1           |                        |
| 45         | 467467350       | PACKING (R), HANDLE        | 1           |                        |
| 46         | 0105050616      | BOLT 6X15 T .....          | 6           | REPLACES P/N 001220615 |
| 47         | 030206150       | WASHER, LOCK M6            | 6           |                        |
| 48         | 952404470       | WASHER, FLAT M6 .....      | 6           | REPLACES P/N 031106100 |
| 49         | 464457930       | RUBBER PIECE               | 1           |                        |
| 50         | 469219180       | HYDRAULIC PUMP             | 1           |                        |
| 51         | 954003100       | OIL HOSE                   | 1           |                        |
| 52         | 458451630       | BREATHER CAP               | 1           |                        |
| 53         | 959021813       | SPIRAL TUBE                | 1           |                        |
| 55A        | 464216630       | TRAVEL LEVER, RIGHT .....  | 1           | S/N 1132 AND BELOW     |
| 55B        | 464216820       | TRAVEL LEVER, RIGHT .....  | 1           | S/N 1133 AND ABOVE     |
| 55C        | 464216830       | TRAVEL LEVER, LEFT .....   | 1           | S/N 1133 AND ABOVE     |
| 56         | 464457400       | HANDLE BOSS .....          | 1           | S/N 1132 AND BELOW     |
| 57         | 012010030       | BOLT 10X30.....            | 2           | REPLACES P/N 001221030 |
| 58         | 030210250       | WASHER, LOCK M10           | 2           |                        |
| 59         | 467218900       | GRIP                       | 1           |                        |
| 60         | 030210250       | WASHER, LOCK M10           | 2           |                        |
| 61         | 031110160       | WASHER, FLAT M10           | 2           |                        |
| 62         | 020310080       | NUT M10                    | 2           |                        |
| 63         | 0105091025      | BOLT 10X25.....            | 2           | REPLACES P/N 001221025 |
| 64         | 030210250       | WASHER, LOCK M10           | 2           |                        |
| 67         | 469466970       | THROTTLE LEVER             | 1           |                        |
| 68         | 959403840       | BAR GRIP, I.D.             | 1           |                        |
| 69         | 464457420       | COVER , THROTTLE LEVER     | 1           |                        |
| 70         | 464457350       | ARM, THROTTLE              | 1           |                        |
| 71         | 014208020       | SOCKET HEAD BOLT 8X20..... | 1           | REPLACES P/N 001520820 |
| 72         | 952408950       | WASHER                     | 1           |                        |
| 73         | 952409020       | WASHER                     | 1           |                        |
| 74         | 033910080       | CONICAL WASHER, LOCK       | 3           |                        |
| 75         | 464457440       | STEEL BALL                 | 1           |                        |
| 76         | 464010010       | DRY BUSHING                | 1           |                        |
| 77         | 011606025       | BOLT 6X25.....             | 2           | REPLACES P/N 001220625 |
| 78         | 020106050       | NUT M6 .....               | 2           | REPLACES P/N 020306050 |
| 80         | 464010020       | ROD END M5                 | 1           |                        |
| 81         | 001520520       | SOCKET HEAD BOLT 5X20      | 1           |                        |
| 82         | 58151           | WASHER, FLAT M5 .....      | 1           | REPLACES P/N 031105080 |
| 83         | 020305040       | NUT M5                     | 1           |                        |
| 84         | 956100071       | THROTTLE WIRE              | 1           |                        |
| 85         | 454010020       | CLAMP                      | 1           |                        |

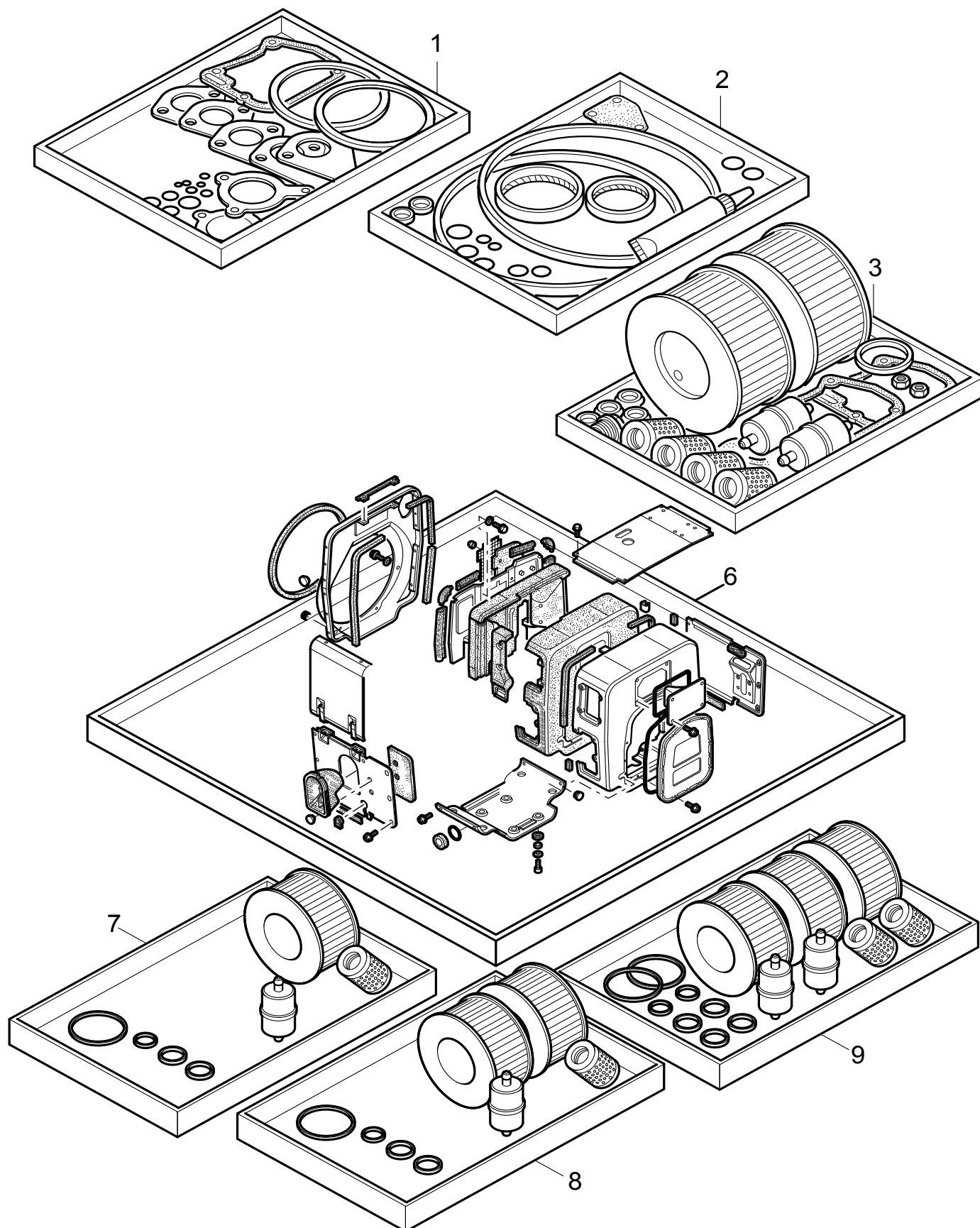
# HYDRAULIC HAND PUMP ASSY.



## HYDRAULIC HAND PUMP ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>         | <u>QTY.</u> | <u>REMARKS</u>                             |
|------------|-----------------|--------------------------|-------------|--------------------------------------------|
| 1          | 469219180       | HAND PUMP .....          | 1.....      | INCLUDES ITEMS W/#                         |
| 2#         | 469910020       | ACCUMULATOR.....         | 1.....      | INCLUDES ITEMS W/\$<br>NOT SOLD SEPARATELY |
| 3          | 464910080       | SEAL KIT .....           | 1.....      | INCLUDES ITEMS W/%                         |
| 4#         | 464010040       | CONTROL SHAFT            | 1           |                                            |
| 5#         | 467010020       | BUSH .....               | 2.....      | INCLUDES ITEMS W/@                         |
| 6#         | 464010060       | CAM                      | 1           |                                            |
| 7#         | 464010070       | STOPPER                  | 2           |                                            |
| 8#         | 099205005       | SCREW, SOCKET HEAD       | 2           |                                            |
| 9#         | 464010080       | PLUG .....               | 1.....      | INCLUDES ITEMS W/*                         |
| 10#        | 464010090       | PIN, STOPPER             | 2           |                                            |
| 11#        | 464010100       | PLUG                     | 2           |                                            |
| 12#        | 458010080       | BREATHER.....            | 1.....      | INCLUDES ITEMS W/^                         |
| 13#        | 001520620       | BOLT, SOCKET HEAD.....   | 1.....      | REPLACES P/N 001520620                     |
| 14@%#      | 050200200       | O-RING, P-20             | 2           |                                            |
| 15@%#      | 050210220       | O-RING, P-22 .....       | 2.....      | REPLACES P/N 050200220                     |
| 16*%#      | 050300380       | O-RING, S-38             | 1           |                                            |
| 17^%#      | 050200180       | O-RING, P-18             | 1           |                                            |
| 18\$#      | 464010111       | CASE, ACCUMULATOR .....  | 1.....      | INCLUDES ITEMS W/&                         |
| 19\$%#     | 050300400       | O-RING, S-40             | 1           |                                            |
| 20\$&%#    | 050200150       | O-RING, P-15             | 1           |                                            |
| 21\$&%#    | 050100400       | O-RING, G-40             | 1           |                                            |
| 22\$#      | 464010120       | PLUG, SPRING             | 1           |                                            |
| 23#        | 458451630       | CAP, BREATHER            | 1           |                                            |
| 24\$&%#    | 069904010       | SEAL, SER-40             | 1           |                                            |
| 25\$&%#    | 069901010       | SEAL, SER-15             | 1           |                                            |
| 26\$#      | 468910030       | SPRING, ACCUMULATOR      | 1           |                                            |
| 27         | 984010060       | SPRING COMPRESSION, TOOL | 1           |                                            |
| 28         | 984010040       | TOOL A, DISASSEMBLING    | 1           |                                            |
| 29         | 984010050       | TOOL B, DISASSEMBLING    | 1           |                                            |

## HATZ 1D81S-325 ENGINE SPARE PARTS KIT ASSY.

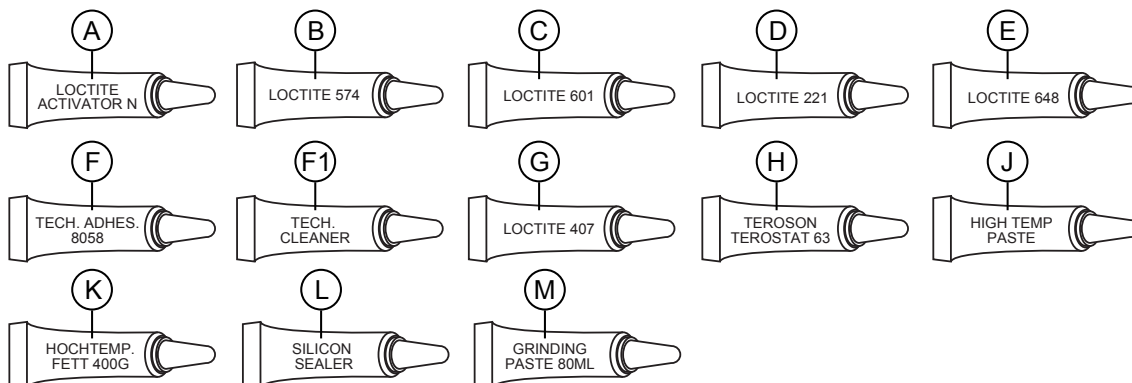
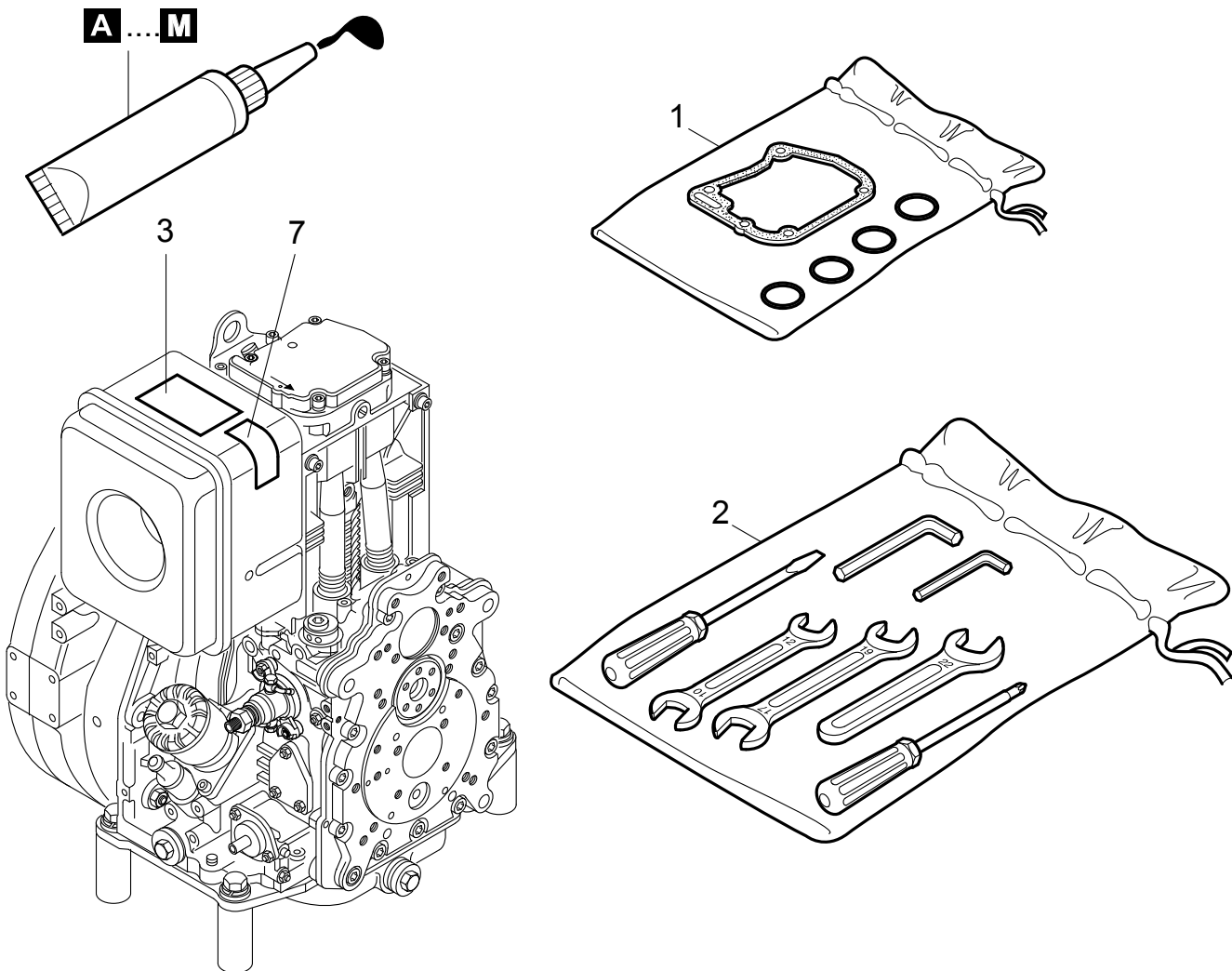


## **HATZ 1D81S-325 ENGINE SPARE PARTS KITS ASSY.**

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| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>          | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|---------------------------|-------------|----------------|
| 1          | 1517802         | GASKET SET, CYLINDER HEAD | 1           |                |
| 2          | 1249322         | GASKET SET, CRANK CASE    | 1           |                |
| 3          | 1249410         | MAINTENANCE KIT, 1000H    | 1           |                |
| 6          | 1942000         | REPAIR SET, CAPSULE       | 1           |                |
| 7          | 2265300         | FILTER KIT, LIGHT         | 1           |                |
| 8          | 2268500         | FILTER KIT, MEDIUM        | 1           |                |
| 9          | 2269600         | FILTER KIT, HEAVY         | 1           |                |

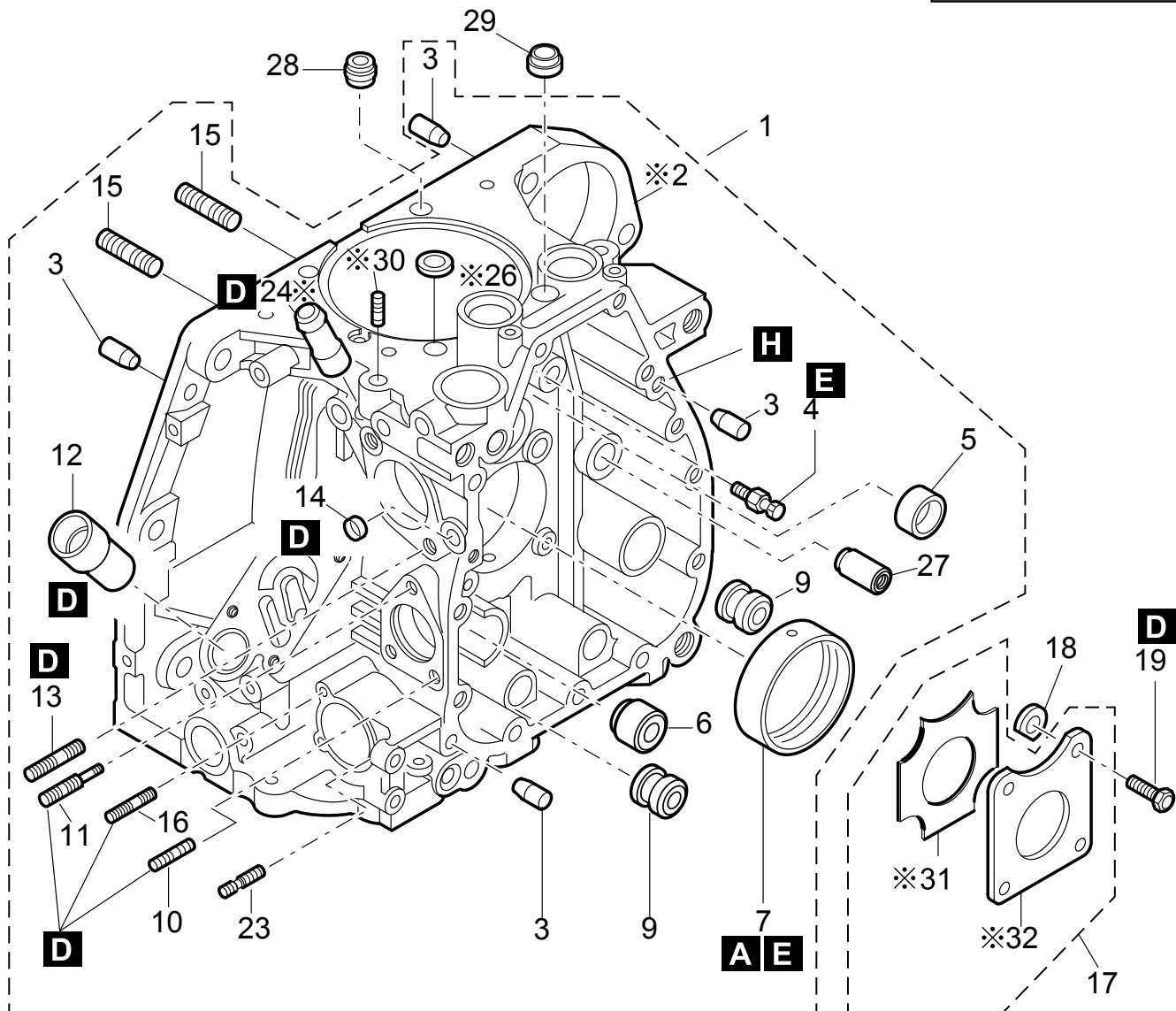
# HATZ 1D81S-325 ENGINE ACCESSORIES ASSY.



## **HATZ 1D81S-325 ENGINE ACCESSORIES ASSY.**

| <b><u>NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>PART NAME</u></b> | <b><u>QTY.</u></b> | <b><u>REMARKS</u></b> |
|-------------------|------------------------|-------------------------|--------------------|-----------------------|
| A                 | 50223001               | LOCTITE ACTIVATOR N     | 1                  |                       |
| B                 | 50223101               | LOCTITE 574             | 1                  |                       |
| C                 | 50223200               | LOCTITE 601             | 1                  |                       |
| D                 | 50223300               | LOCTITE 221             | 1                  |                       |
| E                 | 50223400               | LOCTITE 648             | 1                  |                       |
| F                 | 50223800               | TECHNICAL ADHESIVE 8058 | 1                  |                       |
| F1                | 50223900               | TECHNICAL CLEANER       | 1                  |                       |
| G                 | 50256501               | LOCTITE IS 407          | 1                  |                       |
| H                 | 70018944               | TEROSON TEROSTAT 63     | 1                  |                       |
| J                 | 50283004               | HIGH TEMPERATURE PASTE  | 1                  |                       |
| K                 | 50342601               | HIGH TEMPERATURE FETT   | 1                  |                       |
| L                 | 50256600               | SILICON SEALER          | 1                  |                       |
| M                 | 50485100               | GRINDING PASTE          | 1                  |                       |
| 1                 | 01247512               | ACCESSORIES KIT         | 1                  |                       |
| 2                 | 01247600               | TOOLS                   | 1                  |                       |
| 3                 | 04048305               | STICKER DECAL           | 1                  |                       |
| 7                 | 05025201               | STICKER DECAL "START"   | 1                  |                       |

# HATZ 1D81S-325 ENGINE CRANKCASE 1 ASSY.



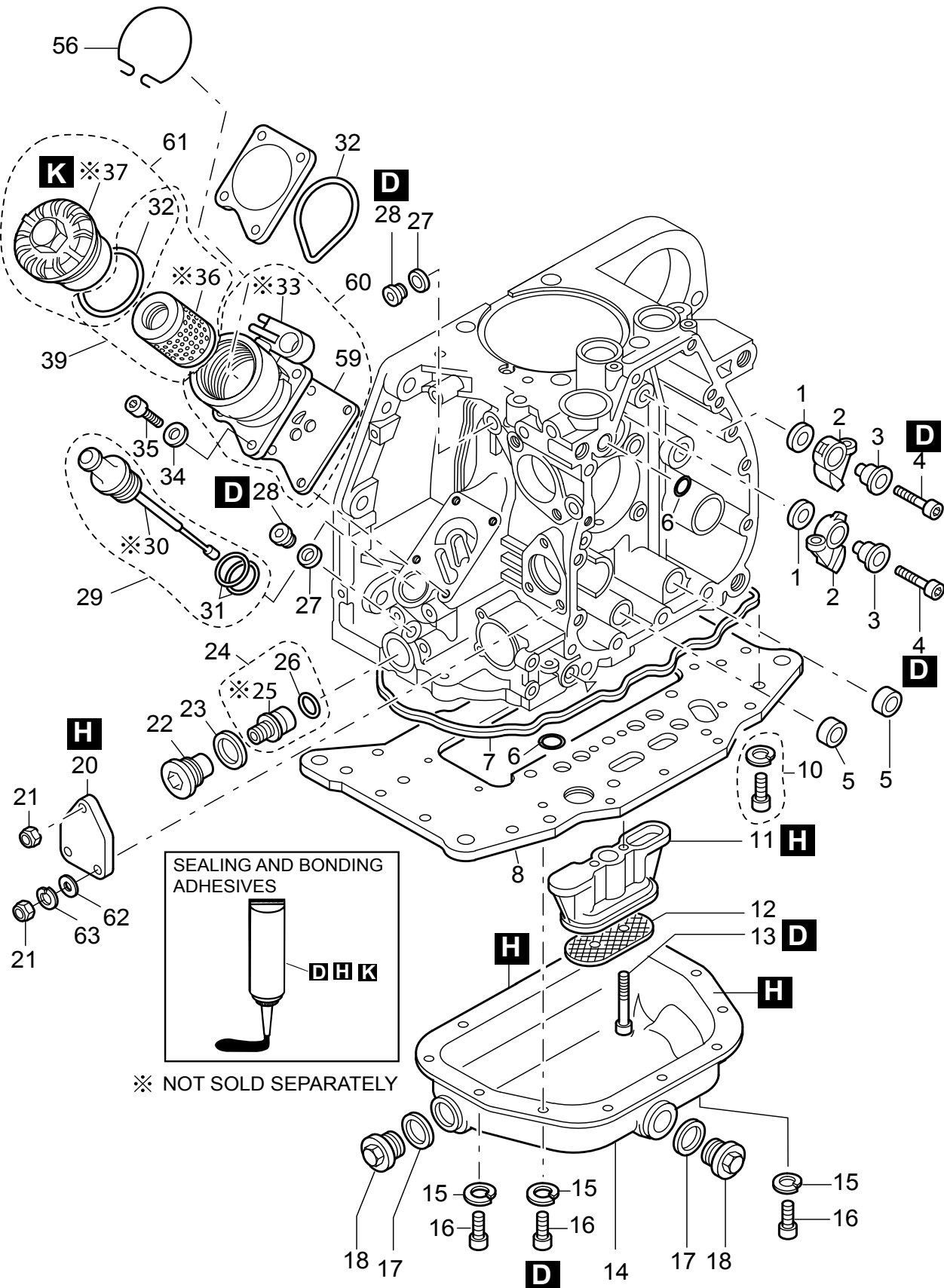
※ NOT SOLD SEPARATELY



## HATZ 1D81S-325 ENGINE CRANKCASE 1 ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>               | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|--------------------------------|-------------|---------------------|
| A          | 50223001        | LOCTITE ACTIVATOR N            | 1           |                     |
| D          | 50223300        | LOCTITE 221                    | 1           |                     |
| E          | 50223400        | LOCTITE 648                    | 1           |                     |
| H          | 70018944        | TEROSON TEROSTAT 63            | 1           |                     |
| 1          | 01249070        | CRANKCASE ASSY.....            | 1.....      | INCLUDES ITEMS W/\$ |
| 2\$        |                 | CRANKCASE.....                 | 1.....      | NOT SOLD SEPARATELY |
| 3\$        | 50249102        | CYL. PIN                       | 4           |                     |
| 4\$        | 03793900        | NOZZLE                         | 1           |                     |
| 5\$        | 03793801        | BEARING BUSH                   | 1           |                     |
| 6\$        | 03794000        | PLUG                           | AR          |                     |
| 7\$        | 03793700        | BEARING                        | 1           |                     |
| 7          | 04033700        | MAIN BEARING, O.S. 0.5MM ..... | 1.....      | FOR -0.5MM SHAFT    |
| 9\$        | 04000800        | PLUG                           | AR          |                     |
| 10\$       | 50144300        | STUD                           | 2           |                     |
| 11\$       | 03794510        | STUD                           | 1           |                     |
| 12\$       | 03794800        | INTERMEDIATE PIECE             | 1           |                     |
| 13\$       | 50601200        | STUD                           | 2           |                     |
| 14\$       | 50325500        | COVER                          | 1           |                     |
| 15\$       | 50602901        | STUD                           | 8           |                     |
| 16\$       | 50328200        | STUD                           | 2           |                     |
| 17         | 02228000        | THRUST PLATE.....              | 1.....      | INCLUDES ITEMS W/@  |
| 18         | 04069500        | SHIM, 1.05 MM                  | AR          |                     |
| 18         | 04069600        | SHIM, 1.2 MM                   | AR          |                     |
| 19         | 04062010        | HEX. HD. SCREW                 | 4           |                     |
| 23         | 50328200        | STUD                           | 1           |                     |
| 24\$       |                 | PIPE.....                      | 1.....      | NOT SOLD SEPARATELY |
| 26\$       |                 | O-RING .....                   | AR .....    | NOT SOLD SEPARATELY |
| 27\$       | 04105000        | PLUG                           | 1           |                     |
| 28         | 50459800        | SEALING CYL. SCREW             | 2           |                     |
| 29         | 04084500        | SEALING RING                   | 2           |                     |
| 30\$       |                 | STUD .....                     | AR .....    | NOT SOLD SEPARATELY |
| 31@        |                 | GASKET .....                   | 1.....      | NOT SOLD SEPARATELY |
| 32@        |                 | PLATE.....                     | 1.....      | NOT SOLD SEPARATELY |

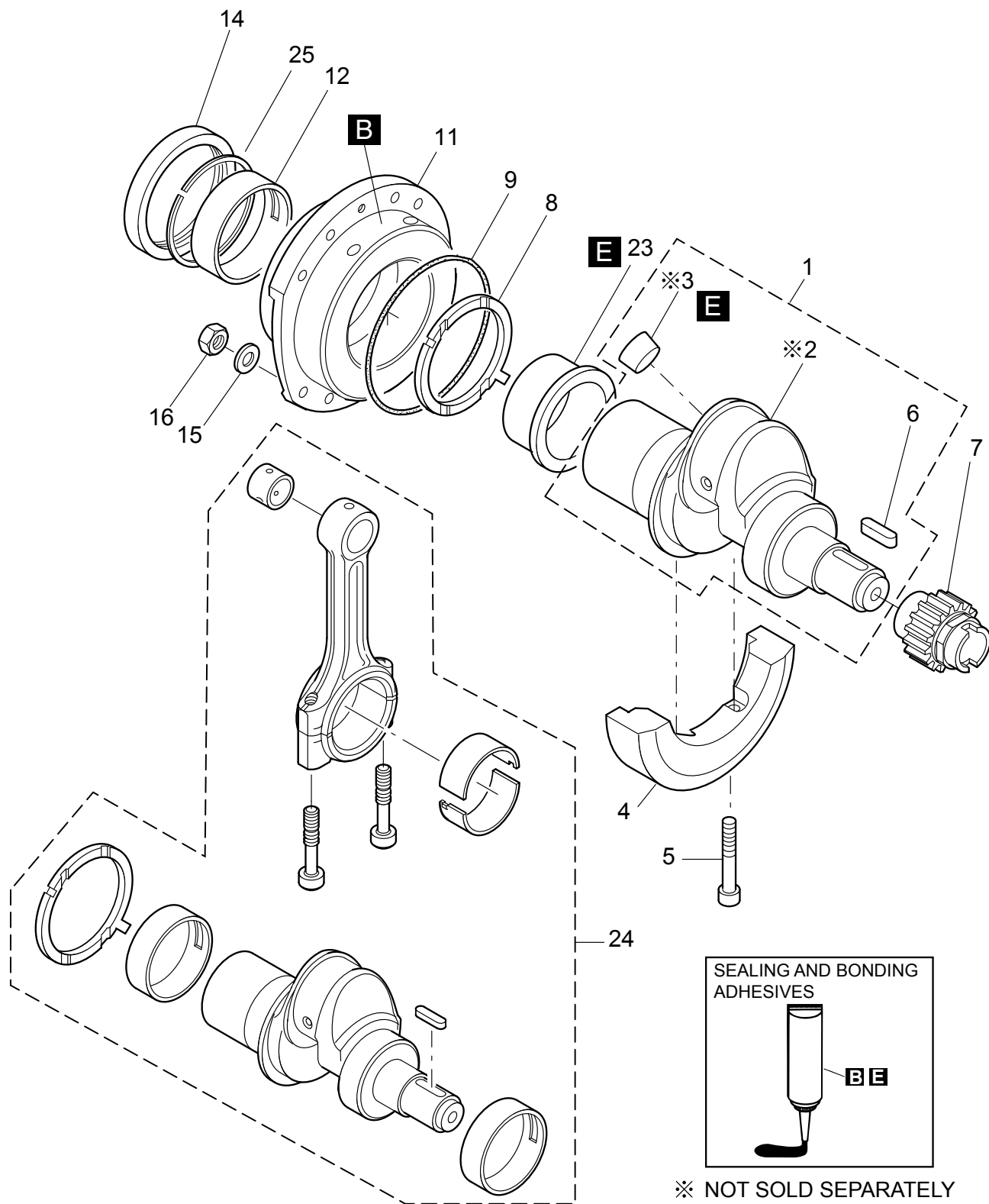
# HATZ 1D81S-325 ENGINE CRANKCASE 2 ASSY.



## HATZ 1D81S-325 ENGINE CRANKCASE 2 ASSY.

| NO.  | PART NO. | PART NAME                                | QTY. | REMARKS             |
|------|----------|------------------------------------------|------|---------------------|
| D    | 50223300 | LOCTITE 221                              | 1    |                     |
| H    | 70018944 | TEROSON TEROSTAT 63                      | 1    |                     |
| K    | 50342601 | HIGH TEMPERATURE FETT                    | 1    |                     |
| 1    | 03794100 | WASHER                                   | 2    |                     |
| 2    | 03794300 | CAM FOLLOWER                             | 2    |                     |
| 3    | 03794201 | CAM FOLLOW SP.                           | 2    |                     |
| 4    | 50545501 | ALLEN, SCREW                             | 2    |                     |
| 5    | 03795800 | O-RING                                   | 2    |                     |
| 6    | 50329000 | O-RING                                   | 3    |                     |
| 7    | 03795100 | O-RING                                   | 1    |                     |
| 8    | 01248810 | PLATE                                    | 1    |                     |
| 10   | 50417600 | ALLEN SCREW W/WASHER                     | 22   |                     |
| 11   | 03794900 | HOUSING                                  | 1    |                     |
| 12   | 03795000 | SUCTION, SIEVE                           | 1    |                     |
| 13   | 50327100 | ALLEN SCREW                              | 2    |                     |
| 14   | 01241700 | OIL SUMP                                 | 1    |                     |
| 15   | 50170900 | WASHER, LOCK                             | 12   |                     |
| 16   | 50329100 | ALLEN SCREW                              | 12   |                     |
| 17   | 50001600 | JOINT A                                  | 2    |                     |
| 18   | 50373100 | DRAIN PLG. MAGNT.                        | 2    |                     |
| 20   | 03794701 | COVER                                    | 1    |                     |
| 21   | 50328300 | HEXAGON NUT                              | 3    |                     |
| 22   | 01321200 | CLOS., SCREW + SIEVE                     | 1    |                     |
| 23   | 50286400 | JOINT A                                  | 1    |                     |
| 24   | 01321100 | OIL RELIEF VALVE W/O-RING.....           | 1    | INCLUDES ITEMS W/\$ |
| 25\$ |          | OIL RELIEF VALVE.....                    | 1    | NOT SOLD SEPARATELY |
| 26\$ | 50460400 | O-RING                                   | 1    |                     |
| 27   | 50062400 | JOINT A                                  | 2    |                     |
| 28   | 50062300 | CLOS. SCREW                              | 2    |                     |
| 29   | 01241500 | OIL GAUGE W/O-RING .....                 | 1    | INCLUDES ITEMS W/#  |
| 30#  |          | OIL GAUGE .....                          | 1    | NOT SOLD SEPARATELY |
| 31#  | 50359700 | O-RING                                   | 2    |                     |
| 32@% | 50329200 | RING                                     | 2    |                     |
| 33+  |          | HOUSING, LUBE, OIL FILTER .....          | 1    | NOT SOLD SEPARATELY |
| 34   | 50081200 | WASHER, LOCK                             | 4    |                     |
| 35   | 50170600 | ALLEN SCREW                              | 4    |                     |
| 36@  |          | ELEMENT, OIL FILTER.....                 | 1    | NOT SOLD SEPARATELY |
| 37%  |          | COVER, OIL FILTER.....                   | 1    | NOT SOLD SEPARATELY |
| 39   | 01480001 | ELEMENT, OIL FILTER W/RING .....         | 1    | INCLUDES ITEMS W/@  |
| 56   | 04084001 | LIFTING SPRING                           | 1    |                     |
| 59+  | 05068900 | GASKET                                   | 1    |                     |
| 60   | 01318300 | HOUSING, LUBE, OIL FILTER, W/GASKET .... | 1    | INCLUDES ITEMS W/+  |
| 61   | 01248901 | COVER, OIL FILTER W/RING .....           | 1    | INCLUDES ITEMS W/%  |
| 62   | 50144500 | WASHER, FLAT                             | 2    |                     |
| 63   | 50170900 | WASHER, LOCK                             | 2    |                     |

# HATZ 1D81S-325 ENGINE CRANKSHAFT BEARING FLANGE ASSY.

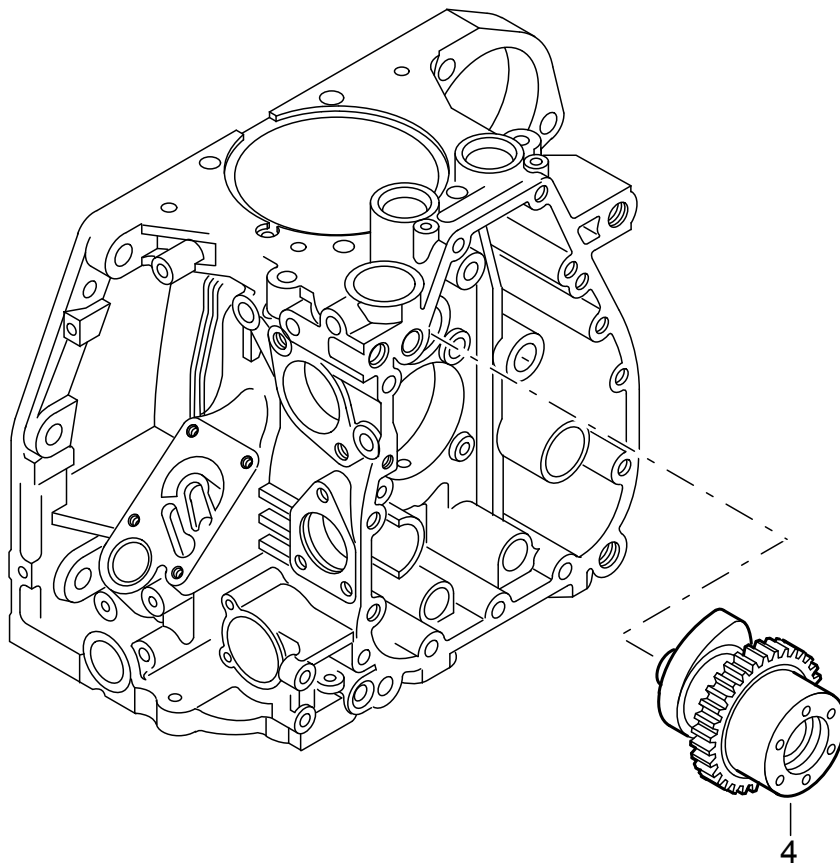


## HATZ 1D81S-325 ENGINE CRANKSHAFT BEARING FLANGE ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>               | <u>QTY.</u> | <u>REMARKS</u>        |
|------------|-----------------|--------------------------------|-------------|-----------------------|
| B          | 50223101        | LOCTITE 574                    | 1           |                       |
| E          | 50223400        | LOCTITE 648                    | 1           |                       |
| 1          | 01269820        | CRANKSHAFT ASSY.....           | 1.....      | INCLUDES ITEMS W/\$   |
| 2\$        |                 | CRANKSHAFT.....                | 1.....      | NOT SOLD SEPARATELY   |
| 3\$        |                 | PLUG .....                     | 1.....      | NOT SOLD SEPARATELY   |
| 4          | 03796000        | COUNTER WEIGHT                 | 1           |                       |
| 5          | 50055001        | ALLEN SCREW                    | 2           |                       |
| 6\$        | 50362600        | FITTING KEY                    | 1           |                       |
| 7          | 03796120        | GEARWHEEL, CRANKSHAFT          | 1           |                       |
| 8          | 04000600        | BUFFER RING                    | 1           |                       |
| 9          | 50224900        | O-RING                         | 1           |                       |
| 11         | 04064211        | BEARING FLANGE .....           | 1.....      | REPLACES P/N 04064210 |
| 12         | 04006800        | MAIN BEARING                   | 1           |                       |
| 12         | 04036100        | MAIN BEARING, O.S. 0.5MM ..... | 1.....      | FOR -0.5MM SHAFT      |
| 14         | 50362701        | OIL SEAL                       | 1           |                       |
| 15         | 50413600        | WASHER                         | 8           |                       |
| 16         | 50364300        | HEXAGON NUT                    | 8           |                       |
| 23         | 50414400        | WEAR SLEEVE                    | AR          |                       |
| 24         | 01512010        | REPAIR SET, CRANKSHAFT         | 1           |                       |

## HATZ 1D81S-325 ENGINE CAMSHAFT ASSY.

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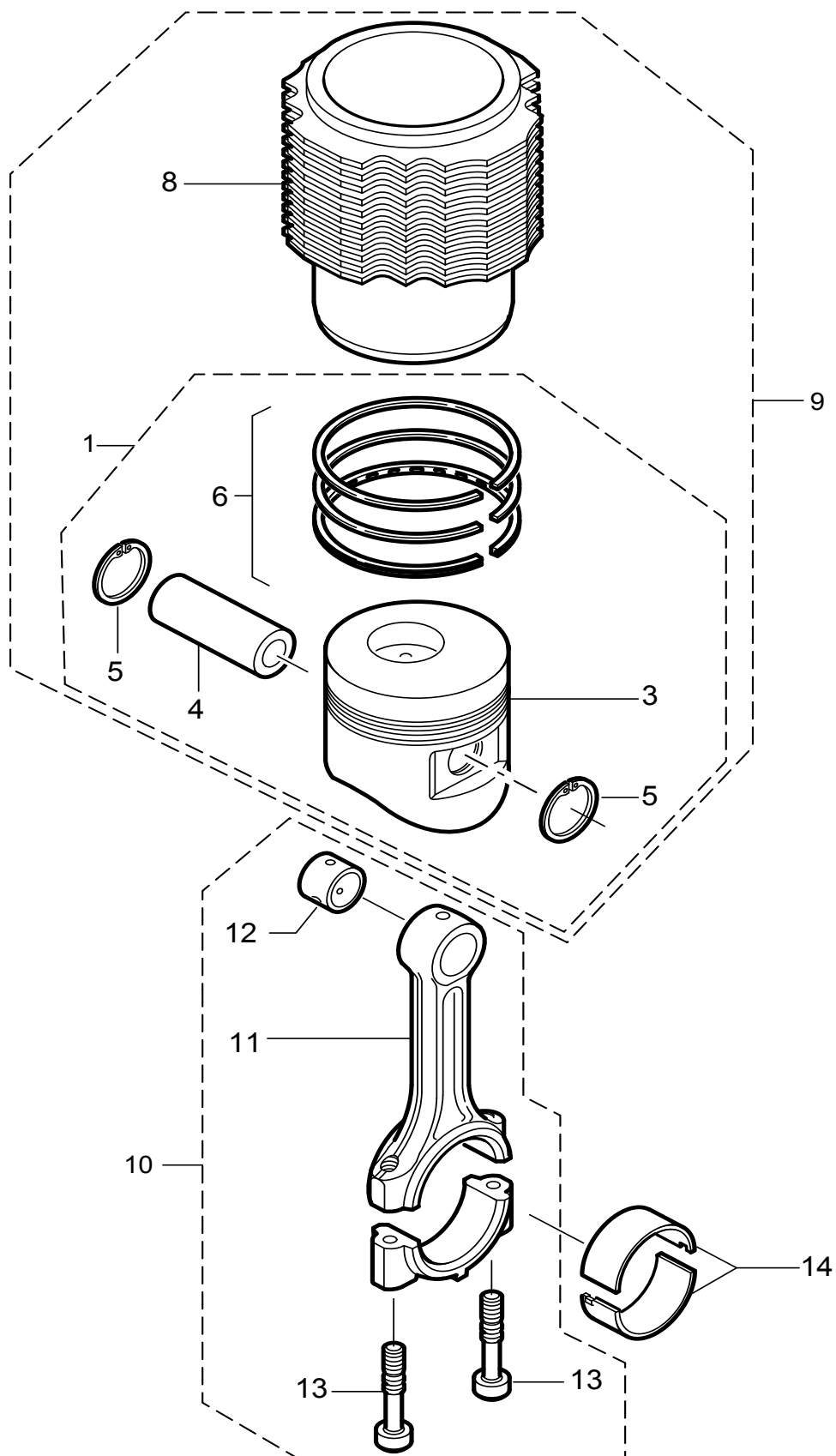


## **HATZ 1D81S-325 ENGINE CAMSHAFT ASSY.**

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| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|------------------|-------------|----------------|
| 4          | 04099920        | CAMSHAFT ASSY.   | 1           |                |

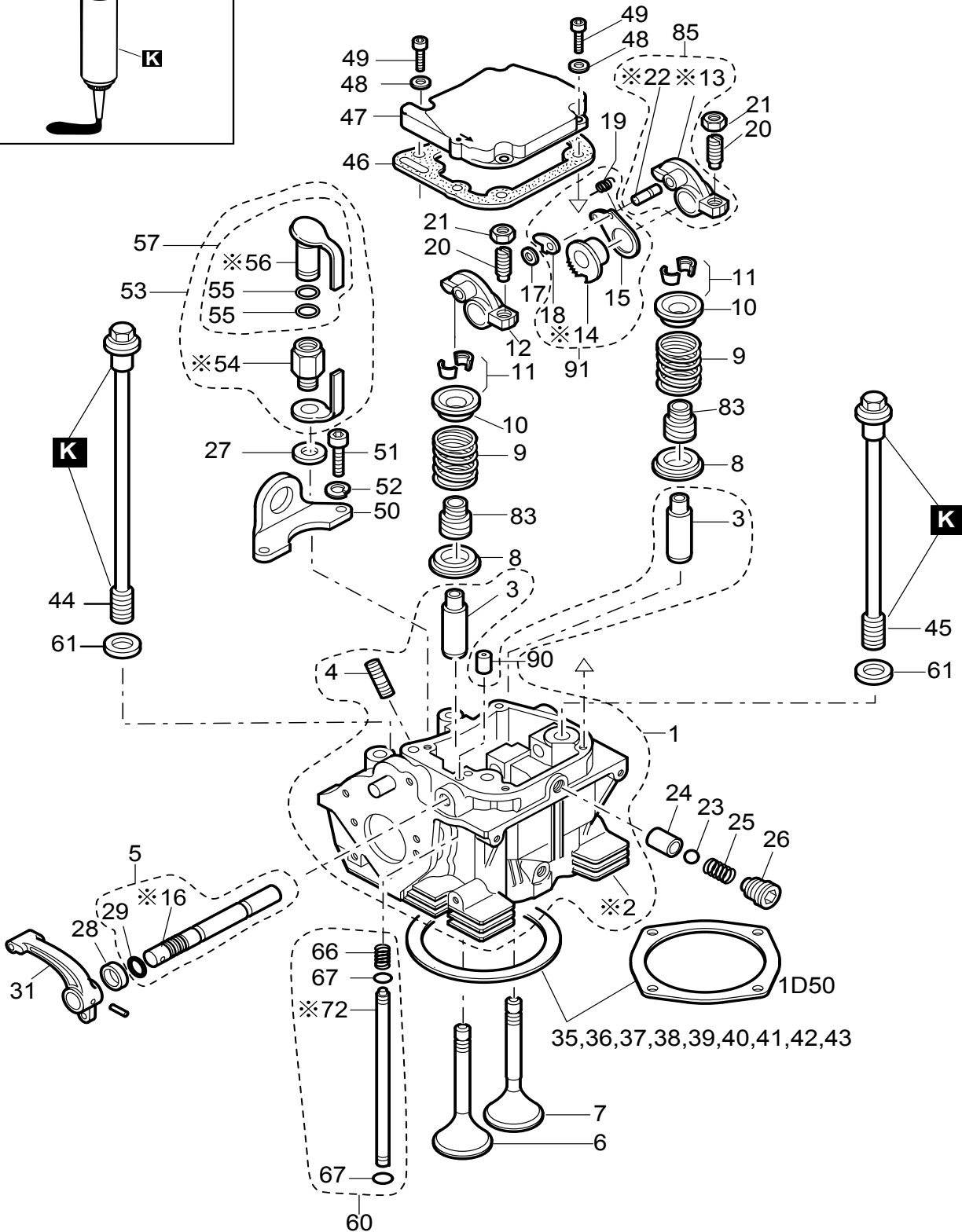
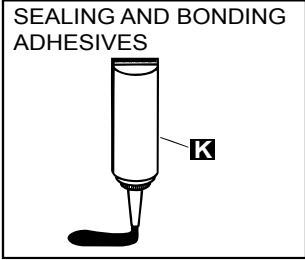
## HATZ 1D81S-325 ENGINE PISTON ASSY.





## HATZ 1D81S-325 ENGINE PISTON ASSY.

| <b>NO.</b> | <b>PART NO.</b> | <b>PART NAME</b>                   | <b>QTY.</b> | <b>REMARKS</b>      |
|------------|-----------------|------------------------------------|-------------|---------------------|
| 1#         | 01313542        | PISTON SET 100 STD.....            | 1.....      | INCLUDES ITEMS W/\$ |
| 1          | 01314641        | PISTON 100+0.5MM OVERSIZE.....     | 1.....      | INCLUDES ITEMS W/%  |
| 3\$%#      |                 | PISTON.....                        | 1.....      | NOT SOLD SEPARATELY |
| 4\$%#      | 50461900        | GUDGEON                            | 1           |                     |
| 5\$%#      | 50594900        | CIR CLIP                           | 2           |                     |
| 6\$#       | 01247310        | PISTON RING SET 100/STD            | 1           |                     |
| 6%         | 01264510        | PISTON RING SET100+0.5MM OVERSIZE  | 1           |                     |
| 8#         |                 | CYLINDER.....                      | 1.....      | NOT SOLD SEPARATELY |
| 9          | 01508330        | CYLINDER ASSY. ....                | 1.....      | INCLUDES ITEMS W/#  |
| 10         | 01244001        | CONNECTING ROD ASSY. ....          | 1.....      | INCLUDES ITEMS W/@  |
| 11@        |                 | CONNECTING ROD.....                | 1.....      | NOT SOLD SEPARATELY |
| 12@        | 04032200        | BUSH FOR CONROD                    | 1           |                     |
| 13@        | 04001810        | CONROD SCREW                       | 2           |                     |
| 14         | 02251900        | BEARING, BIG END STANDARD          | 1           |                     |
| 14         | 02252100        | BEARING, BIG END, O.S. 0.5MM ..... | 1.....      | FOR -0.5MM BRG END  |



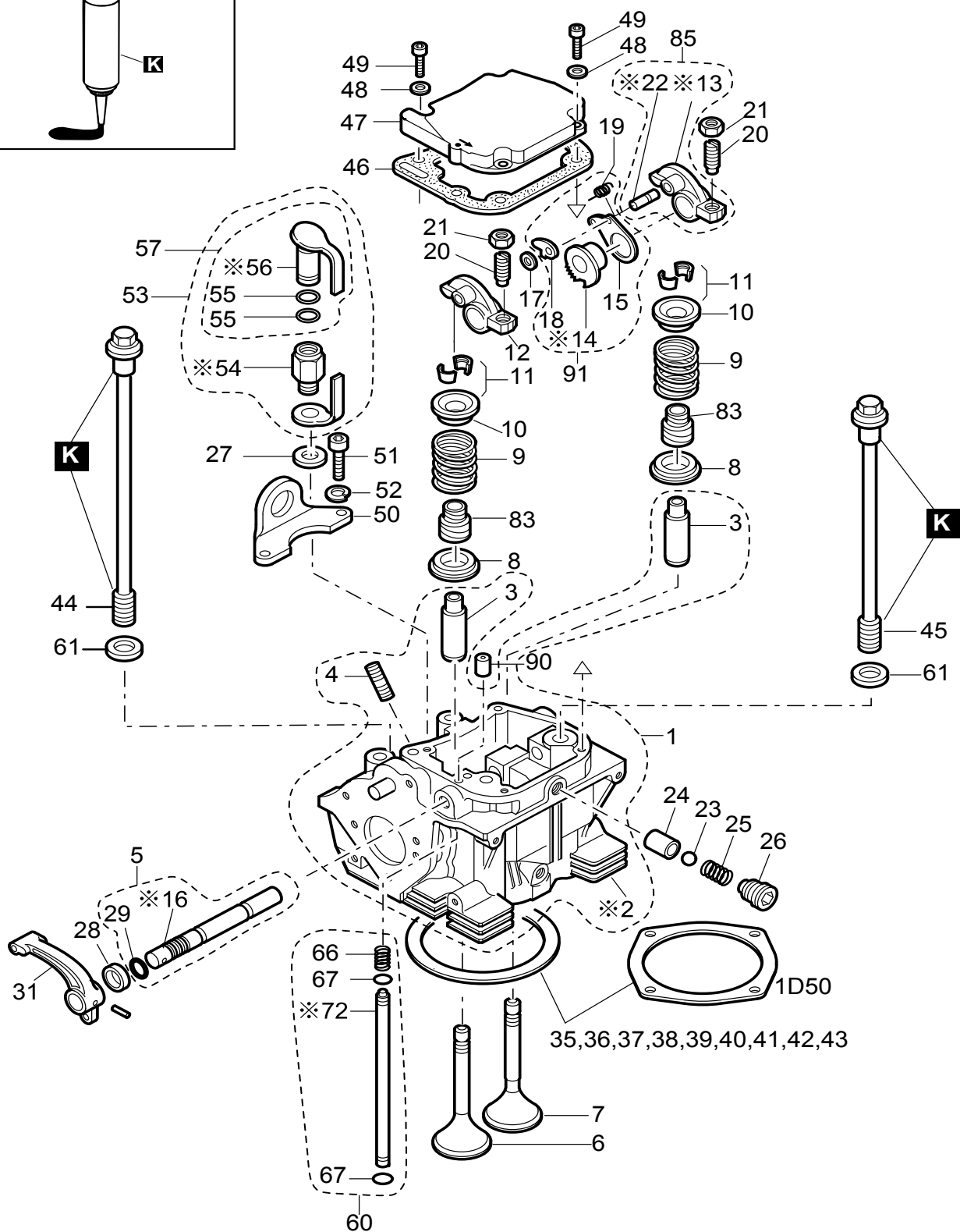
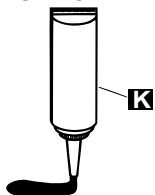
✕ NOT SOLD SEPARATELY

## HATZ 1D81S-325 ENGINE CYLINDER HEAD ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|---------------------------------|-------------|---------------------|
| K          | 50342601        | HIGH TEMPERATURE FETT           | 1           |                     |
| 1          | 01499620        | CYLINDER HEAD ASSY.....         | 1           | INCLUDES ITEMS W/\$ |
| 2\$        |                 | CYLINDER HEAD.....              | 1           | NOT SOLD SEPARATELY |
| 3\$        | 04008712        | VALVE GUIDE                     | 2           |                     |
| 4\$        | 50038400        | STUD                            | 1           |                     |
| 5          | 01468920        | SHAFT ROCKER W/O-RING.....      | 1           | INCLUDES ITEMS W/%  |
| 6          | 04091001        | INTAKE VALVE                    | 1           |                     |
| 7          | 04091100        | EXHAUST VALVE                   | 1           |                     |
| 8          | 04005201        | WASHER                          | 2           |                     |
| 9          | 04005300        | VALVE SPRING                    | 2           |                     |
| 10         | 04005401        | CUP                             | 2           |                     |
| 11         | 02252200        | COLLET                          | 2           |                     |
| 12         | 04003710        | ROCKER INLET                    | 1           |                     |
| 13^        |                 | ROCKER, EXHAUST.....            | 1           | NOT SOLD SEPARATELY |
| 14*        |                 | GEAR HOLDER.....                | 1           | NOT SOLD SEPARATELY |
| 15*        | 03778401        | SPRING SHEET                    | 1           |                     |
| 16%        |                 | SHAFT ROCKER.....               | 1           | NOT SOLD SEPARATELY |
| 17         | 50117200        | CIRCLIP                         | 1           |                     |
| 18*        | 03365710        | RATCHET F DECOMPR               | 1           |                     |
| 19*        | 03366001        | SPRING                          | 1           |                     |
| 20         | 03783000        | ADJUSTING SCREW                 | 2           |                     |
| 21         | 03173100        | HEXAGON NUT                     | 2           |                     |
| 22^        |                 | PIN, ROCKER EXHAUST.....        | 1           | NOT SOLD SEPARATELY |
| 23         | 50123800        | BALL                            | 1           |                     |
| 24         | 04004700        | BUSH                            | 1           |                     |
| 25         | 04004800        | PRESSURE SPRING                 | 1           |                     |
| 26         | 01245200        | ADJUSTING SCREW                 | 1           |                     |
| 27         | 50001100        | JOINT A                         | 1           |                     |
| 28         | 04048900        | RUBBER, RING                    | 1           |                     |
| 29%        | 40022401        | O-RING                          | 1           |                     |
| 30         | 50034700        | PIN                             | 1           |                     |
| 31         | 04009810        | HANDLE                          | 1           |                     |
| 35         | 04068800        | GASKET F. CYLINDER HEAD 0.5 MM  | 1           |                     |
| 35         | 04240900        | GASKET CYLINDER HEAD 0.55 MM    | 1           |                     |
| 36         | 04036800        | GASKET F. CYLINDER HEAD 0.6 MM  | 1           |                     |
| 36         | 04241000        | GASKET F. CYLINDER HEAD 0.65 MM | 1           |                     |
| 37         | 04036500        | GASKET F. CYLINDER HEAD 0.7 MM  | 1           |                     |
| 37         | 04241100        | GASKET F. CYLINDER HEAD 0.75 MM | 1           |                     |
| 38         | 04036600        | GASKET F. CYLINDER HEAD 0.8 MM  | 1           |                     |
| 38         | 04241200        | GASKET F. CYLINDER HEAD 0.85 MM | 1           |                     |
| 39         | 04002700        | GASKET F. CYLINDER HEAD 0.9 MM  | 1           |                     |
| 39         | 04241300        | GASKET F. CYLINDER HEAD 0.95 MM | 1           |                     |
| 40         | 04002800        | GASKET F. CYLINDER HEAD 1.0 MM  | 1           |                     |
| 40         | 04241400        | GASKET F. CYLINDER HEAD 1.05 MM | 1           |                     |

# HATZ 1D81S-325 ENGINE CYLINDER HEAD ASSY. (CONT'D.)

SEALING AND BONDING  
ADHESIVES

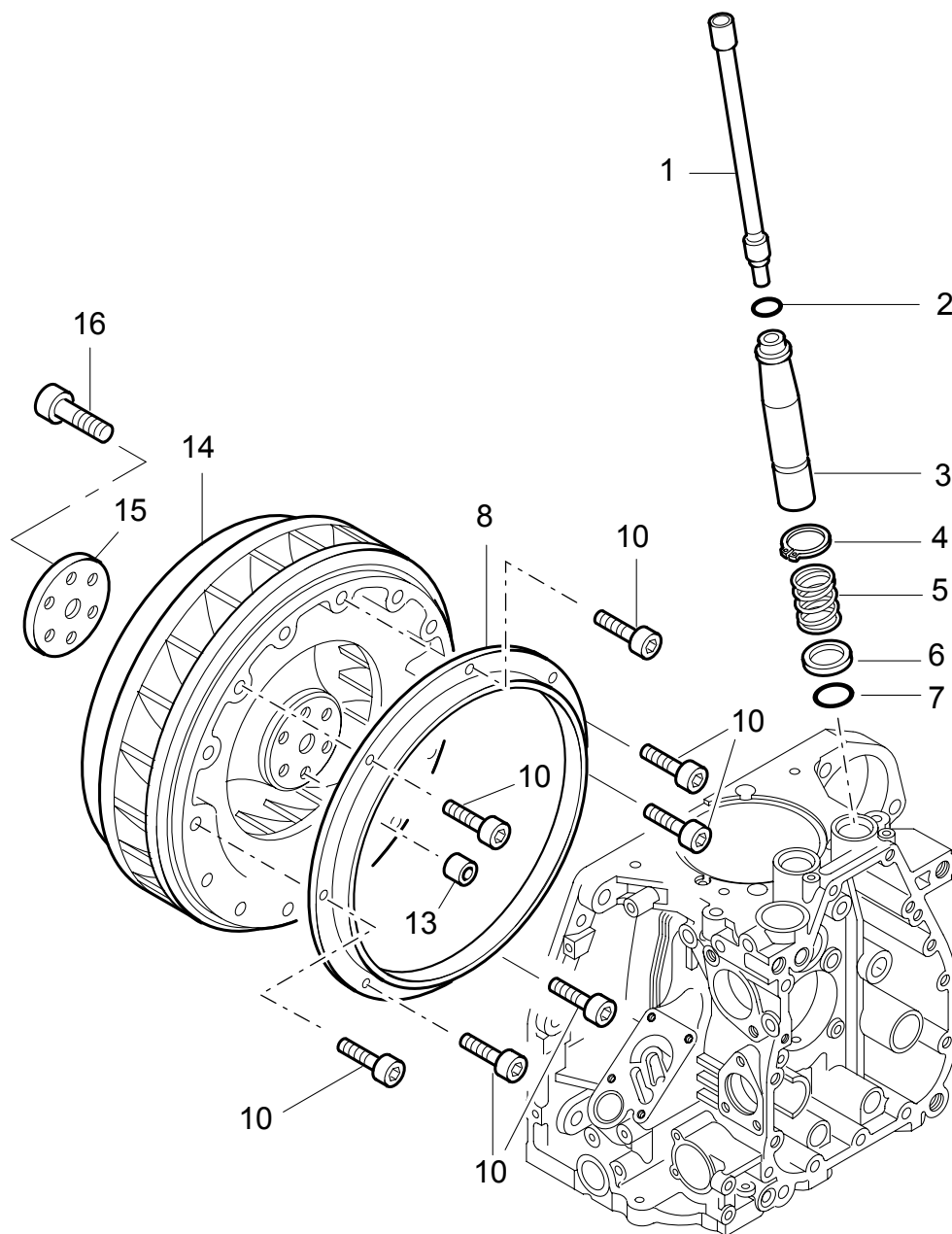


※ NOT SOLD SEPARATELY

# HATZ 1D81S-325 ENGINE CYLINDER HEAD ASSY. (CONT'D.)

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                      | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|---------------------------------------|-------------|---------------------|
| 41         | 04002900        | GASKET F. CYLINDER HEAD 1.1 MM        | 1           |                     |
| 41         | 04241500        | GASKET F. CYLINDER HEAD 1.15 MM       | 1           |                     |
| 42         | 04003000        | GASKET F. CYLINDER HEAD 1.2 MM        | 1           |                     |
| 42         | 04241600        | GASKET F. CYLINDER HEAD 1.25 MM       | 1           |                     |
| 43         | 04003100        | GASKET F. CYLINDER HEAD 1.3 MM        | 1           |                     |
| 44         | 04003200        | CYLINDER HEAD SCREW                   | 2           |                     |
| 45         | 04003300        | CYLINDER HEAD SCREW                   | 2           |                     |
| 46         | 04006111        | GASKET, ROCKER COVER                  | 1           |                     |
| 47         | 01245414        | COVER CYLINDER HEAD                   | 1           |                     |
| 48         | 50081200        | WASHER, LOCK                          | 4           |                     |
| 49         | 50170800        | ALLEN SCREW                           | 4           |                     |
| 50         | 04008100        | LIFTING BRACKET                       | 1           |                     |
| 51         | 50366300        | ALLEN SCREW                           | 2           |                     |
| 52         | 50208500        | WASHER, LOCK                          | 2           |                     |
| 53         | 01493200        | PLUG, FILTER, ASSY. ....              | 1           | INCLUDES ITEMS W/@  |
| 54@        |                 | CAP, FILTER PLUG .....                | 1           | NOT SOLD SEPARATELY |
| 55@+       | 50326200        | O-RING                                | 2           |                     |
| 56@+       |                 | PLUG, FILTER .....                    | 1           | NOT SOLD SEPARATELY |
| 57         | 01308301        | CLOSING PLUG "S" W/O-RING & CAP ..... | 1           | INCLUDES ITEMS W/+  |
| 60         | 01269700        | OIL PRESSURE PIPE W/SPRING & ORINGS.. | 1           | INCLUDES ITEMS W/#  |
| 61         | 03457500        | DISC F. STUD                          | 4           |                     |
| 66#        | 04004200        | PRESSURE SPRING                       | 1           |                     |
| 67#        | 50330100        | O-RING                                | 2           |                     |
| 72#        |                 | PIPE OIL PRESSURE .....               | 1           | NOT SOLD SEPARATELY |
| 83         | 50634900        | VALVE STEM SEAL CAP                   | 2           |                     |
| 85         | 01285010        | ROCKER EXHAUST .....                  | 1           | INCLUDES ITEMS W/^  |
| 90         | 04104300        | PIN                                   | 1           |                     |
| 91         | 01557600        | GEAR, HOLDER, F. DECOMPR .....        | 1           | INCLUDES ITEMS W/*  |

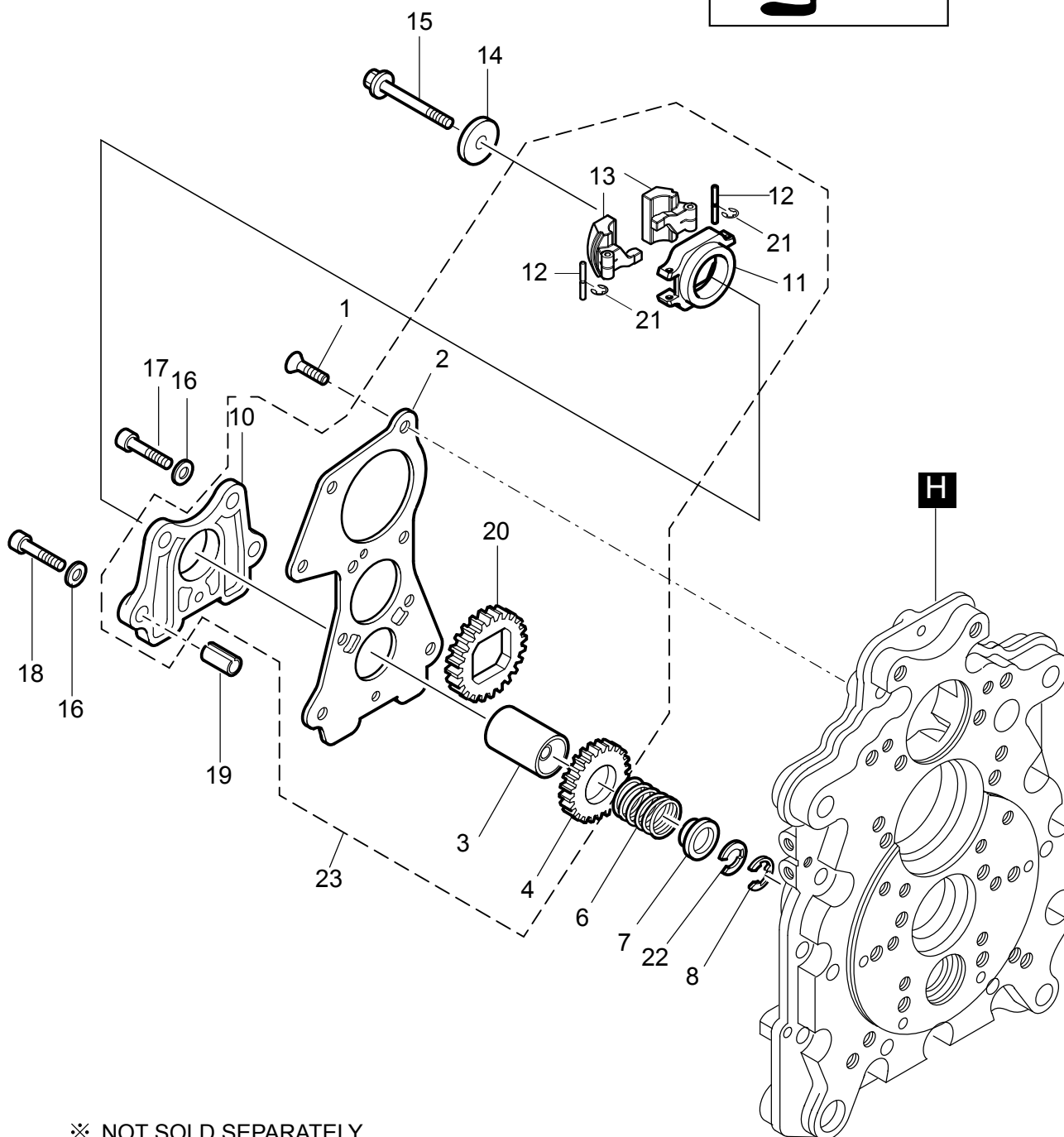
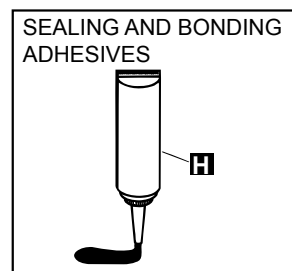
## HATZ 1D81S-325 ENGINE PUSHROD, FLYWHEEL ASSY.



## **HATZ 1D81S-325 ENGINE PUSHROD, FLYWHEEL ASSY.**

| <b><u>NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>PART NAME</u></b> | <b><u>QTY.</u></b> | <b><u>REMARKS</u></b> |
|-------------------|------------------------|-------------------------|--------------------|-----------------------|
| 1                 | 01244310               | PUSHROD                 | 2                  |                       |
| 2                 | 50330200               | O-RING                  | 2                  |                       |
| 3                 | 04002500               | PROTECTION TUBE         | 2                  |                       |
| 4                 | 50347000               | CIRCLIP                 | 2                  |                       |
| 5                 | 04002600               | PRESSURE SPRING         | 2                  |                       |
| 6                 | 04002000               | PRESSURE RING           | 2                  |                       |
| 7                 | 50330300               | O-RING                  | 2                  |                       |
| 8                 | 04007500               | RING, FLYWHEEL          | 2                  |                       |
| 10                | 50397100               | ALLEN SCREW             | 1                  |                       |
| 13                | 03123700               | BUSHING                 | 7                  |                       |
| 14                | 04007133               | FLYWHEEL                | 1                  |                       |
| 15                | 04007410               | PLATE                   | 1                  |                       |
| 16                | 50363100               | ALLEN SCREW             | 6                  |                       |

# HATZ 1D81S-325 ENGINE OIL PUMP, GOVERNOR ASSY.



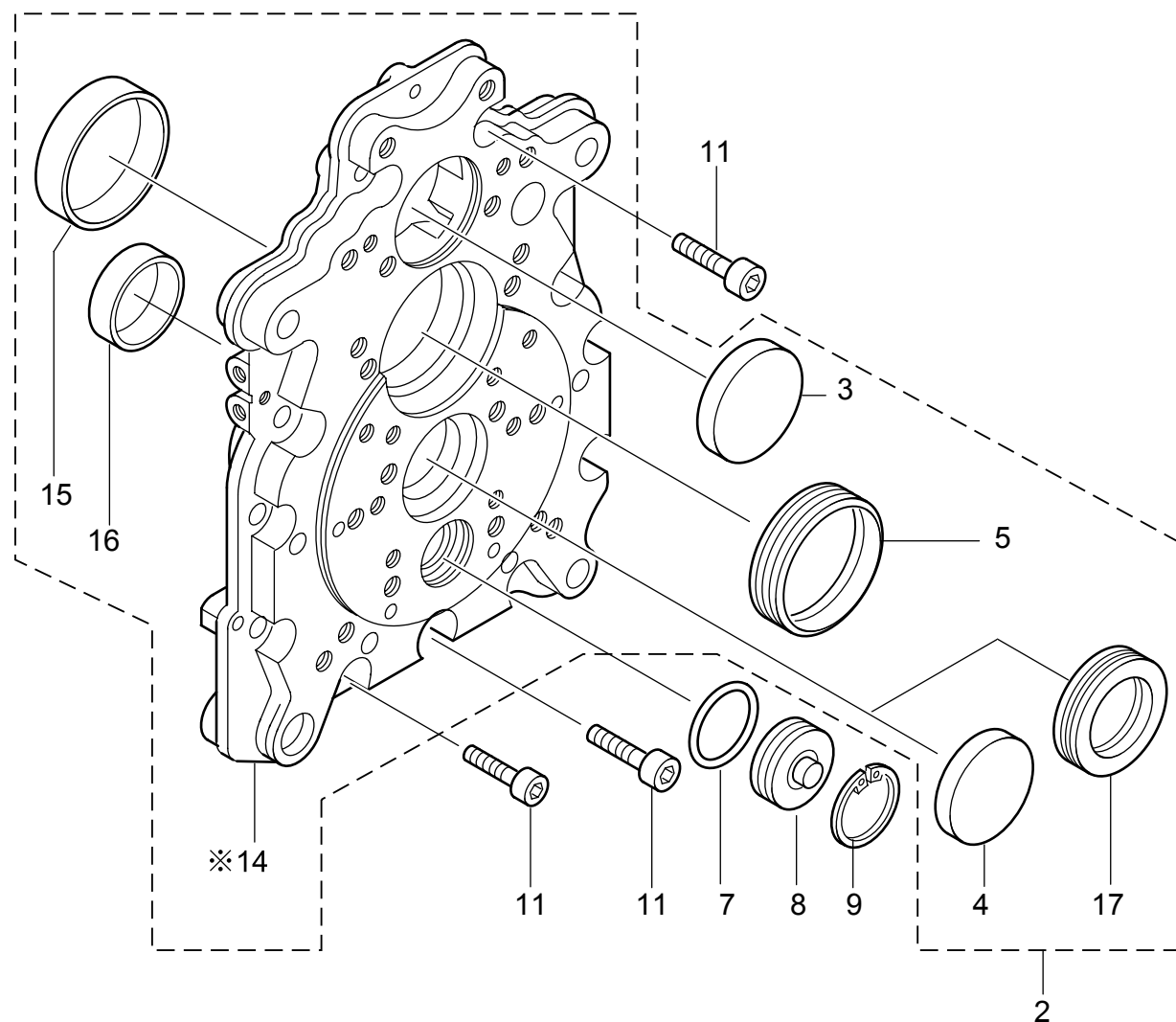
※ NOT SOLD SEPARATELY.



## HATZ 1D81S-325 ENGINE OIL PUMP, GOVERNOR ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>          | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|---------------------------|-------------|---------------------|
| H          | 70018944        | TEROSON TEROSTAT 63       | 1           |                     |
| 1          | 50328000        | COUNTERSUNK SCREW         | 5           |                     |
| 2\$        | 03797412        | COVER, OIL PUMP           | 1           |                     |
| 3\$        | 01242401        | SPRING CAPSULE + BUSH     | 1           |                     |
| 4\$        | 03797310        | GEAR WHEEL                | 1           |                     |
| 6          | 04063400        | GOVERNOR SPRING           | 1           |                     |
| 7          | 03798600        | CUP                       | 1           |                     |
| 8          | 50334700        | CIRCLIP                   | 1           |                     |
| 10\$       | 03797512        | HOUSING FOR OIL PUMP      | 1           |                     |
| 11\$       | 04277100        | PLATE, CENTRIFUGAL WEIGHT | 1           |                     |
| 12\$       | 04277300        | PIN                       | 1           |                     |
| 13\$       | 04277202        | FLYWEIGHT                 | 1           |                     |
| 14         | 03797900        | WASHER                    | 1           |                     |
| 15         | 03797801        | PIN                       | 1           |                     |
| 16         | 50081200        | WASHER, LOCK              | 5           |                     |
| 17         | 50170800        | ALLEN SCREW               | 3           |                     |
| 18         | 50051000        | ALLEN SCREW               | 2           |                     |
| 19         | 50084901        | PIN                       | 2           |                     |
| 20\$       | 03798720        | GEAR WHEEL                | 1           |                     |
| 21\$       | 50594300        | CIRCLIP                   | 2           |                     |
| 22         | 04262500        | CIRCLIP 0.3 MM            | AR          |                     |
| 22         | 04046000        | CIRCLIP 0.5 MM            | AR          |                     |
| 23         | 01242330        | SPRING SLEEVE ASSY. ....  | 1.....      | INCLUDES ITEMS W/\$ |

## HATZ 1D81S-325 ENGINE TIMING COVER ASSY.

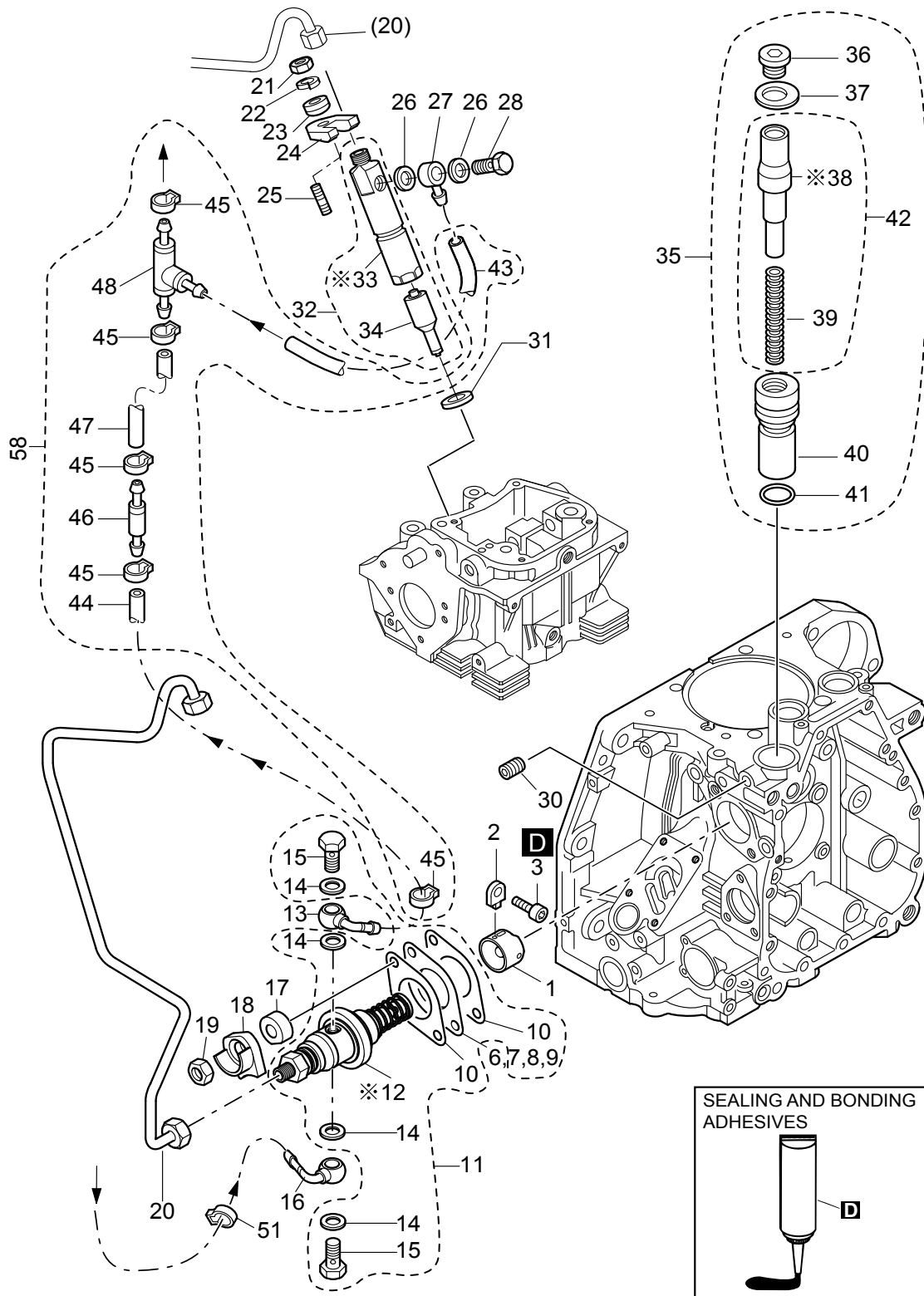


※ NOT SOLD SEPARATELY.

## HATZ 1D81S-325 ENGINE TIMING COVER ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>       | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|------------------------|-------------|---------------------|
| 2          | 01267731        | TIMING COVER ASSY..... | 1.....      | INCLUDES ITEMS W/\$ |
| 3\$        | 50325600        | COVER 50               | 1           |                     |
| 4\$        | 50325701        | COVER 52               | 1           |                     |
| 5\$        | 50325811        | OIL SEAL               | 1           |                     |
| 7          | 50330400        | O-RING                 | 1           |                     |
| 8          | 04000400        | COVER                  | 1           |                     |
| 9          | 50399000        | CIRCLIP                | 1           |                     |
| 11         | 50417400        | ALLEN SCREW            | 13          |                     |
| 14\$       |                 | TIMING COVER.....      | 1.....      | NOT SOLD SEPARATELY |
| 15\$       | 04000310        | BEARING, BUSHING       | 1           |                     |
| 16\$       | 04023210        | BEARING, BUSHING       | 1           |                     |
| 17\$       | 50364701        | OIL SEAL               | 1           |                     |

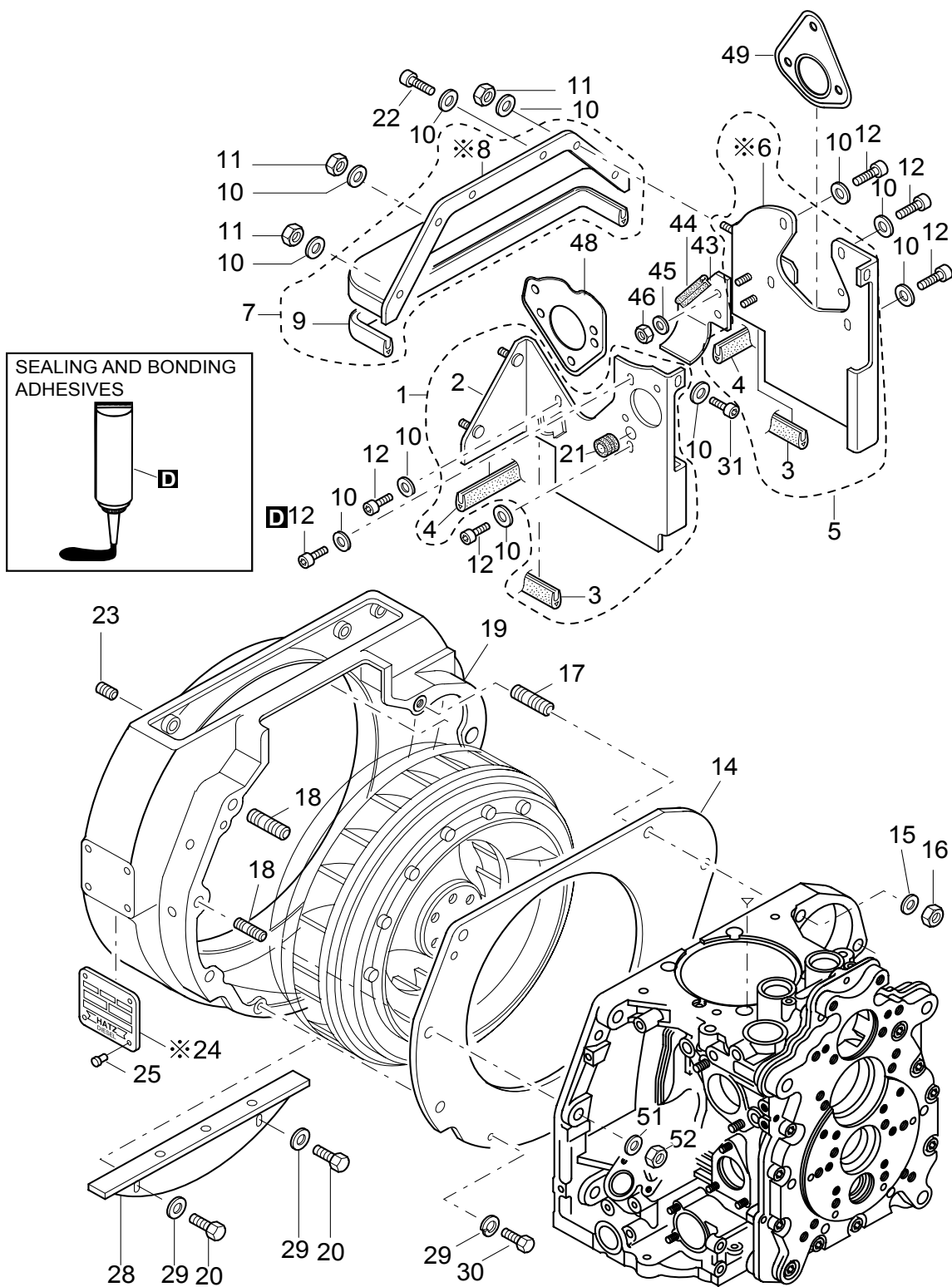
# HATZ 1D81S-325 ENGINE FUEL PUMP ASSY.



## HATZ 1D81S-325 ENGINE FUEL PUMP ASSY.

| NO.  | PART NO.  | PART NAME                  | QTY. | REMARKS               |
|------|-----------|----------------------------|------|-----------------------|
| D    | 70018918  | LOCTITE 221                | 1    |                       |
| 1    | 50492900  | ROLLER TAPPET              | 1    |                       |
| 2    | 04169200  | GUIDE                      | 1    |                       |
| 3    | 50050700  | ALLEN SCREW                | 1    |                       |
| 6    | 03209700  | SHIM 0.30 MM               | AR   |                       |
| 7\$  | 04102400  | SHIM 0.60 MM               | AR   |                       |
| 8\$  | 04102500  | SHIM 0.90 MM               | AR   |                       |
| 9\$  | 04102600  | SHIM 1.20 MM               | AR   |                       |
| 10\$ | 04071300  | GASKET 0.10 MM             | AR   |                       |
| 10   | 04102200  | GASKET 0.20 MM             | AR   |                       |
| 10   | 04102300  | GASKET 0.30 MM             | AR   |                       |
| 11   | 01864502  | INJECTION PUMP ASSY.....   | 1    | INCLUDES ITEMS W/\$   |
| 12\$ |           | INJECTION PUMP.....        | 1    | NOT SOLD SEPARATELY   |
| 13   | 05299701  | BANJO CONNECTION           | 1    |                       |
| 14\$ | 50586300  | PACKING RING               | 4    |                       |
| 15\$ | 50577801  | BANJO BOLT                 | 2    |                       |
| 16   | 05299701  | BANJO CONNECTION           | 2    |                       |
| 17   | 04239300  | SPACER                     | 2    |                       |
| 18   | 04239100  | CLAMP, INJECTION PUMP      | 2    |                       |
| 19   | 04244300  | HEXAGON NUT                | 2    |                       |
| 20   | 01313620  | FUEL PRESSURE PIPE         | 1    |                       |
| 21   | 020108060 | HEXAGON NUT .....          | 1    | REPLACES P/N 50148000 |
| 22   | 50208500  | WASHER, LOCK               | 1    |                       |
| 23   | 04035700  | WASHER                     | 1    |                       |
| 24   | 03792401  | FLANGE                     | 1    |                       |
| 25   | 50038400  | STUD                       | 1    |                       |
| 26   | 50000800  | JOINT A                    | 2    |                       |
| 27   | 50333400  | BANJO CONNECTION           | 1    |                       |
| 28   | 50313000  | BANJO BOLT                 | 1    |                       |
| 30   | 50004600  | GRUB SCREW                 | 1    |                       |
| 31   | 04185200  | JOINT WASHER               | 1    |                       |
| 32   | 50567310  | INJECTOR NOZZLE ASSY.....  | 1    | INCLUDES ITEMS W/%    |
| 33%  |           | INJECTOR NOZZLE BODY ..... | 1    | NOT SOLD SEPARATELY   |
| 34%  | 50567410  | INJECTOR NOZZLE            | 1    |                       |
| 35   | 01498902  | PISTON CYLINDER ASSY. .... | 1    | INCLUDES ITEMS W/@    |
| 36@  | 50330800  | CLOSS SCREW                | 1    |                       |
| 37@  | 04001600  | DISC                       | 1    |                       |
| 38@# |           | PISTON CYLINDER .....      | 1    | NOT SOLD SEPARATELY   |
| 39@# | 05035200  | PRESSURE SPRING            | 1    |                       |
| 40@  | 04001410  | CYLINDER F. EXTR. FUEL DEV | 1    |                       |
| 41@  | 50328900  | O-RING                     | 1    |                       |
| 42   | 01519500  | PISTON W/SPRING .....      | 1    | INCLUDES ITEMS W/#    |
| 43+  | 03962110  | FUEL HOSE                  | 1    |                       |
| 44+  | 05310200  | FUEL PIPE                  | 1    |                       |
| 45+  | 50570900  | CLAMP                      | 5    |                       |
| 46+  | 00805502  | VENT VALVE                 | 1    |                       |
| 47+  | 05310100  | FUEL PIPE                  | 1    |                       |
| 48+  | 03989601  | HOSE NIPPLE T              | 1    |                       |
| 51   | 50590000  | CLAMP                      | 1    |                       |
| 58   | 01189910  | FUEL PIPE ASSY.....        | 1    | INCLUDES ITEMS W/+    |

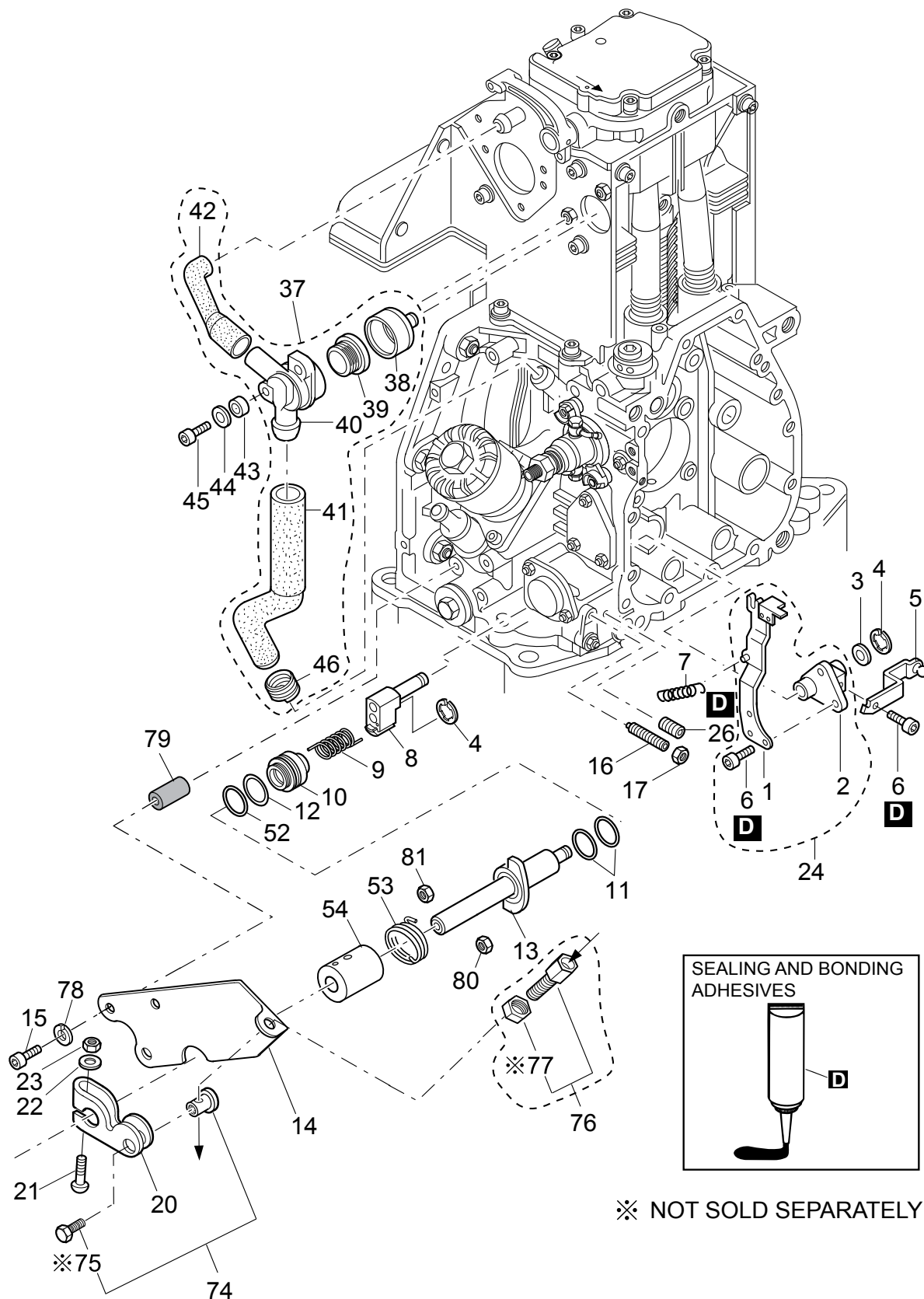
# HATZ 1D81S-325 ENGINE AIR DUCTING ASSY.



## HATZ 1D81S-325 ENGINE AIR DUCTING ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                 | <u>QTY.</u> | <u>REMARKS</u>         |
|------------|-----------------|----------------------------------|-------------|------------------------|
| D          | 50223300        | LOCTITE 221                      | 1           |                        |
| 1          | 01246223        | COOLING AIR DUCTING .....        | 1.....      | INCLUDES ITEMS W/\$    |
| 2\$        |                 | AIR DUCT BRACKET .....           | 1.....      | NOT SOLD SEPARATELY    |
| 3\$@       | 04007601        | SEALING STRIP 35 MM              | 2           |                        |
| 4\$@       | 04007720        | SEALING STRIP 76 MM              | 2           |                        |
| 5          | 01246413        | COOLING AIR DUCTING .....        | 1.....      | INCLUDES ITEMS W/@     |
| 6@         |                 | AIR DUCT BRACKET .....           | 1.....      | NOT SOLD SEPARATELY    |
| 7          | 01246600        | COOLING AIR DUCTING, UPPER ..... | 1.....      | INCLUDES ITEMS W/#     |
| 8#         |                 | AIR DUCT UPPER.....              | 1.....      | NOT SOLD SEPARATELY    |
| 9#         | 04007901        | SEALING STRIP                    | 1           |                        |
| 10         | 50390701        | CON. WASHER, LOCK                | 15          |                        |
| 11         | 020106050       | HEXAGON NUT .....                | 4.....      | REPLACES P/N 50144400  |
| 12         | 50528100        | ALLEN SCREW                      | 7           |                        |
| 14         | 04008500        | PARTING SHEET                    | 1           |                        |
| 15         | 50093700        | WASHER, FLAT                     | 2           |                        |
| 16         | 50093600        | HEXAGON NUT                      | 2           |                        |
| 17         | 50475000        | STUD                             | 2           |                        |
| 18         | 50474900        | STUD                             | 4           |                        |
| 19         | 01689100        | HOUSING, INTERMEDIATE            | 1           |                        |
| 20         | 50333500        | HEXAGON SCREW                    | AR          |                        |
| 21\$       | 50334800        | RUBBER SLEEVE                    | 1           |                        |
| 22         | 50416800        | ALLEN SCREW                      | 2           |                        |
| 23         | 50226000        | GRUB SCREW                       | 4           |                        |
| 24         |                 | MODEL ID PLATE.....              | 1.....      | CONTACT MQ PARTS DEPT. |
| 25         | 40002500        | RIVET                            | 4           |                        |
| 28         | 04080410        | COVER, BLOWER DUCTING            | AR          |                        |
| 29         | 50170900        | WASHER, LOCK                     | AR          |                        |
| 30         | 50177100        | HEXAGON SCREW                    | 2           |                        |
| 31         | 50416800        | ALLEN SCREW                      | 2           |                        |
| 43         | 01268010        | COOLING AIR DUCT                 | 1           |                        |
| 44         | 04038800        | SEALING STRIP 94 MM              | 1           |                        |
| 45         | 50120000        | WASHER, FLAT                     | 2           |                        |
| 46         | 50328300        | HEXAGON NUT                      | 2           |                        |
| 48         | 04125700        | SEALING PLATE                    | 1           |                        |
| 49         | 04125601        | SEALING PLATE                    | 1           |                        |
| 51         | 50093700        | WASHER, FLAT                     | 4           |                        |
| 52         | 50093600        | HEXAGON NUT                      | 4           |                        |

# HATZ 1D81S-325 ENGINE SPEED CONTROL ASSY.

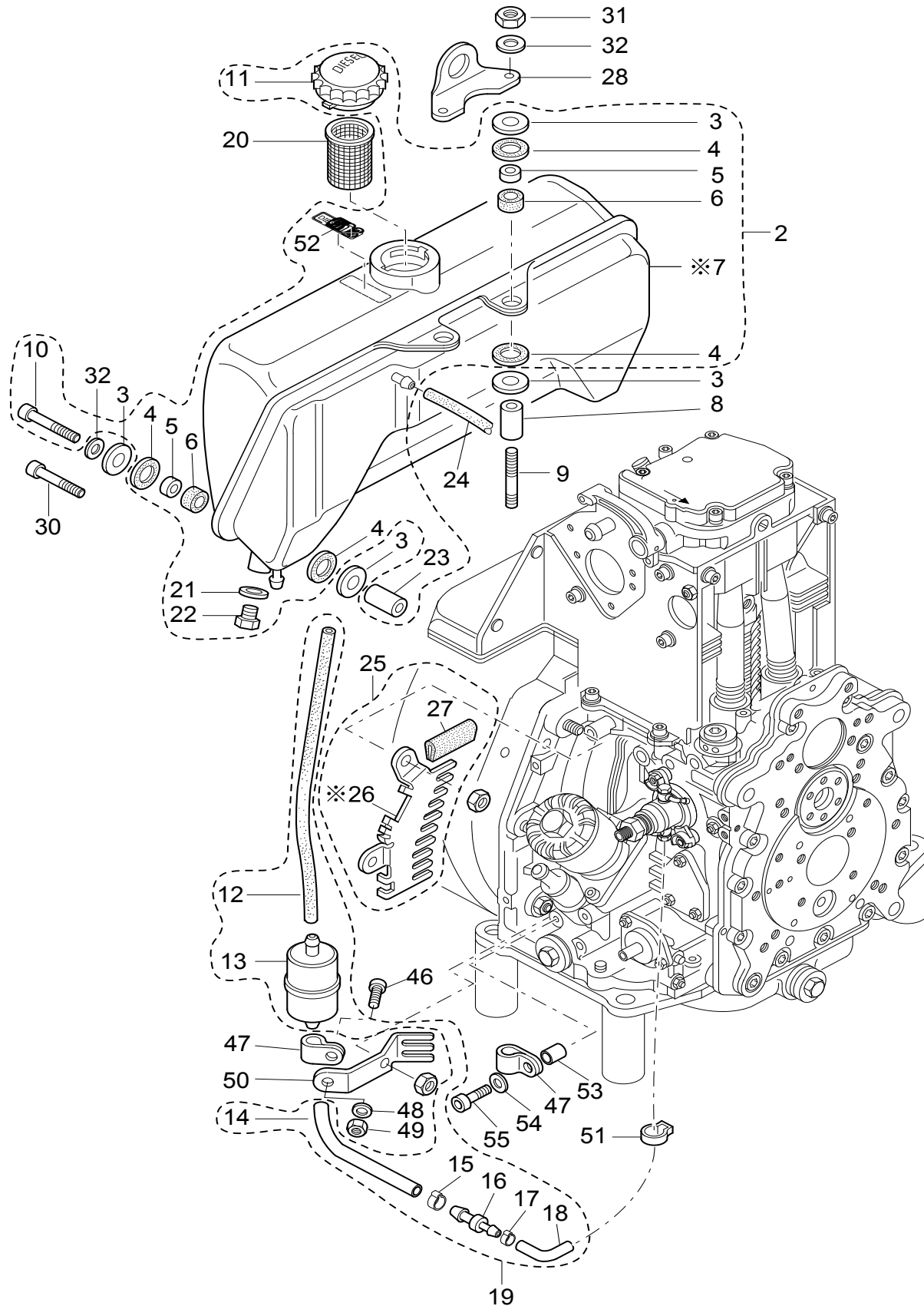




## HATZ 1D81S-325 ENGINE SPEED CONTROL ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>             | <u>QTY.</u> | <u>REMARKS</u>        |
|------------|-----------------|------------------------------|-------------|-----------------------|
| D          | 50223300        | LOCTITE 221                  | 1           |                       |
| 1\$        |                 | LEVER, SPEED CONTROL .....   | 1           | NOT SOLD SEPARATELY   |
| 2\$        |                 | BRACKET, SPEED CONTROL ..... | 1           | NOT SOLD SEPARATELY   |
| 3          | 04000100        | SHIM                         | 1           |                       |
| 4          | 50266100        | CIRCLIP                      | 2           |                       |
| 5          | 04037500        | LEVER                        | 1           |                       |
| 6\$        | 50328701        | ALLEN SCREW                  | 4           |                       |
| 7          | 04000200        | TENSION SPRING               | 1           |                       |
| 8          | 01242811        | GUIDE                        | 1           |                       |
| 9          | 03799010        | THIGH SPRING                 | 1           |                       |
| 10         | 04052710        | SPACER RING                  | 1           |                       |
| 11         | 50412900        | O-RING                       | 2           |                       |
| 12         | 50129900        | O-RING                       | 1           |                       |
| 13         | 01279222        | STOP RING. SPD. CONT. S      | 1           |                       |
| 14         | 03975602        | CONSOLE                      | 1           |                       |
| 15         | 50170600        | ALLEN SCREW                  | 3           |                       |
| 16         | 50507801        | GRUB SCREW                   | 2           |                       |
| 17         | 020106050       | HEXAGON NUT .....            | 2           | REPLACES P/N 50144400 |
| 20         | 03975801        | LEVER                        | 1           |                       |
| 21         | 03927301        | SCREW                        | 1           |                       |
| 22         | 50144500        | WASHER, FLAT                 | 1           |                       |
| 23         | 50346500        | HEXAGON NUT                  | 1           |                       |
| 24         | 01246803        | SPEED CONTROL, ASSY. ....    | 1           | INCLUDES ITEMS W/\$   |
| 26         | 50403500        | GRUB SCREW                   | 1           |                       |
| 37         | 01317000        | VALVE, BREATHER, ASSY. ....  | 1           | INCLUDES ITEMS W/@    |
| 38@        | 04080300        | BREATHER CUP                 | 1           |                       |
| 39@        | 03568701        | DIAPHRAGM .....              | 1           | REPLACES P/N 03568700 |
| 40@        |                 | BREATHER VALVE .....         | 1           | NOT SOLD SEPARATELY   |
| 41@        | 04074700        | BREATHER HOSE                | 1           |                       |
| 42@        | 04074800        | BREATHER HOSE                | 1           |                       |
| 43         | 04080500        | BUSH                         | 2           |                       |
| 44         | 50081200        | WASHER, LOCK                 | 2           |                       |
| 45         | 50170700        | ALLEN SCREW                  | 2           |                       |
| 46@        | 04090500        | CLAMP                        | 1           |                       |
| 52         | 50453600        | SUPPORTING DISC              | 1           |                       |
| 53         | 05046800        | THIGH SPRING                 | 1           |                       |
| 54         | 01494101        | COUPLING SHELL               | 1           |                       |
| 74         | 50642000        | CABLE CLAMPING ASSY. ....    | 1           | INCLUDES ITEMS W/#    |
| 75#        |                 | BOLT, HEX. HD. ....          | 1           | NOT SOLD SEPARATELY   |
| 76         | 50374400        | ADJUSTING SCREW W/NUT.....   | 1           | INCLUDES ITEM W/%     |
| 77%        |                 | NUT, HEX.....                | 1           | NOT SOLD SEPARATELY   |
| 78         | 50170900        | WASHER, LOCK                 | 3           |                       |
| 79         | 04021000        | BUSHING                      | 3           |                       |
| 80         | 05179300        | NUT. HEX.                    | 1           |                       |
| 81         | 50328300        | NUT, HEX.                    | 2           |                       |

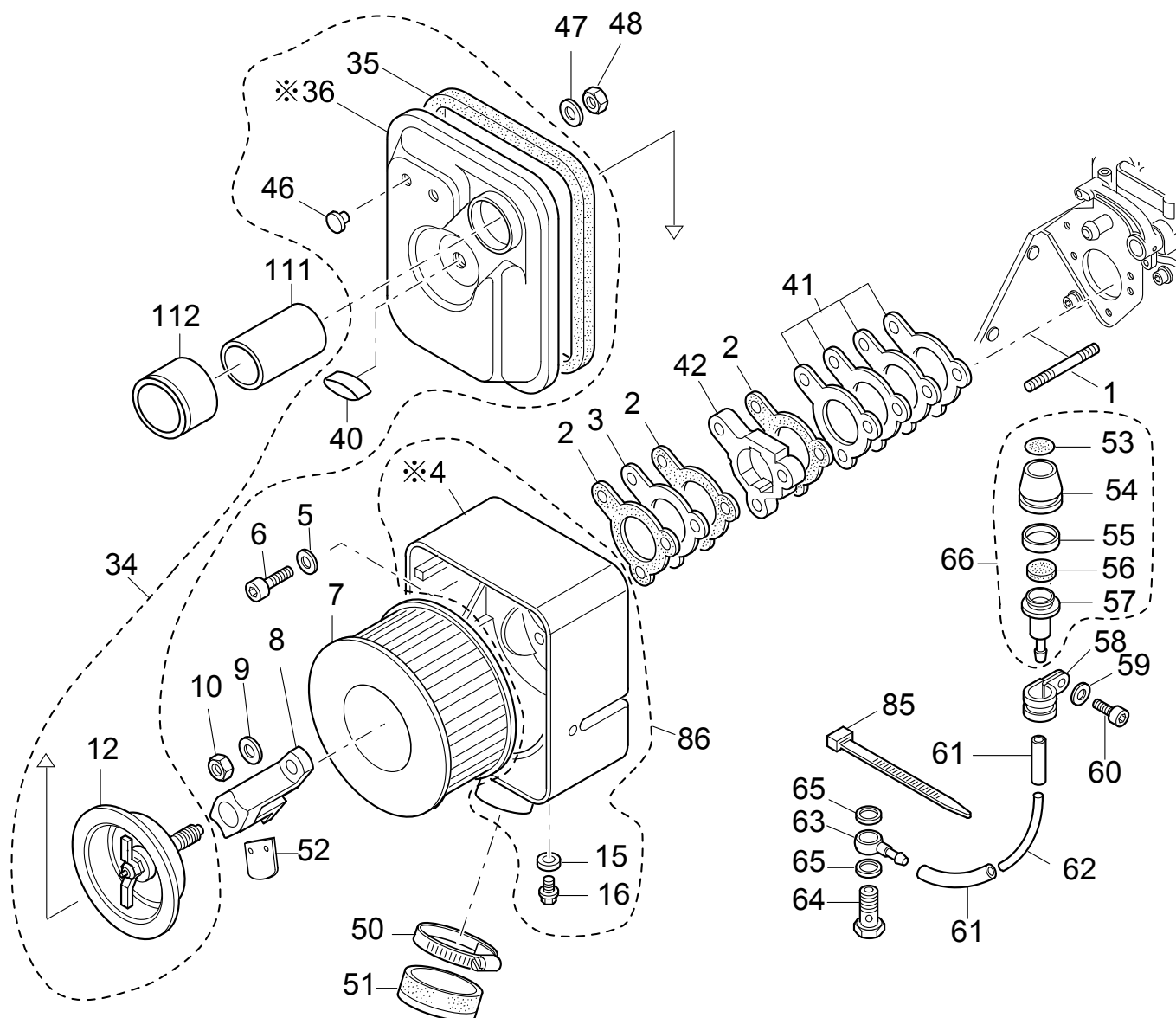
# HATZ 1D81S-325 ENGINE FUEL TANK ASSY.



## HATZ 1D81S-325 ENGINE FUEL TANK ASSY.

| NO.  | PART NO.  | PART NAME                     | QTY. | REMARKS               |
|------|-----------|-------------------------------|------|-----------------------|
| 2    | 01494200  | FUEL TANK ASSY.....           | 1    | INCLUDES ITEMS W/\$   |
| 3    | 05097600  | WASHER                        | 12   |                       |
| 4\$  | 03981802  | RUBBER WASHER                 | 12   |                       |
| 5\$  | 03981701  | BUSH                          | 6    |                       |
| 6\$  | 03981900  | RUBBER SHELL                  | 4    |                       |
| 7\$  |           | FUEL TANK.....                | 1    | NOT SOLD SEPARATELY   |
| 8    | 03989800  | BUSH                          | 2    |                       |
| 9    | 50377001  | STUD                          | 2    |                       |
| 10\$ | 50177500  | ALLEN SCREW                   | 4    |                       |
| 11\$ | 50385801  | CAP, FUEL TANK                | 1    |                       |
| 12@  | 05323600  | FUEL HOSE                     | 1    |                       |
| 13@  | 50478800  | FUEL FILTER, IN-LINE          | 1    |                       |
| 14@  | 05330000  | FUEL HOSE                     | 1    |                       |
| 15@  | 50523800  | CLAMP                         | 1    |                       |
| 16@  | 05240400  | NIPPLE                        | 1    |                       |
| 17@  | 50570900  | CLAMP                         | 1    |                       |
| 18@  | 03664310  | FUEL HOSE                     | 1    |                       |
| 19   | 01473610  | FUEL FILTER W/HOSES .....     | 1    | INCLUDES ITEMS W/@    |
| 20   | 50387300  | FUEL FILTER/SIEVE             | 1    |                       |
| 21\$ | 50001000  | JOINT A                       | 1    |                       |
| 22\$ | 05126000  | DRAIN PLUG                    | 1    |                       |
| 23\$ | 05029200  | BUSH                          | 4    |                       |
| 24   | 03663710  | FUEL HOSE                     | 1    |                       |
| 25   | 01490300  | PROTECT GUARD TOP W/SEAL..... | 1    | INCLUDES ITEMS W/%    |
| 26%  |           | PROTECT GUARD .....           | 1    | NOT SOLD SEPARATELY   |
| 27%  | 04030901  | SEALING STRIP                 | 1    |                       |
| 28   | 04008100  | BRACKET, LIFTING              | 1    |                       |
| 30   | 50183000  | ALLEN SCREW                   | 1    |                       |
| 31   | 020108060 | HEXAGON NUT .....             | 2    | REPLACES P/N 50148000 |
| 32   | 50208500  | WASHER, LOCK                  | 6    |                       |
| 46   | 50177100  | HEXAGON SCREW                 | 1    |                       |
| 47   | 50158400  | PIPE CLIP 14/15               | 2    |                       |
| 48   | 50144500  | WASHER, FLAT                  | 1    |                       |
| 49   | 020106050 | HEXAGON NUT .....             | 1    | REPLACES P/N 50144400 |
| 50   | 05031900  | GUARD/FILTER                  | 1    |                       |
| 51   | 50590000  | CLAMP                         | 1    |                       |
| 52\$ | 05235602  | STICKER "DIESEL"              | 1    |                       |
| 53   | 04098400  | SPACER TUBE                   | 1    |                       |
| 54   | 50170900  | WASHER, LOCK                  | 1    |                       |
| 55   | 50323900  | ALLEN SCREW                   | 1    |                       |

# HATZ 1D81S-325 ENGINE AIR FILTER ASSY.



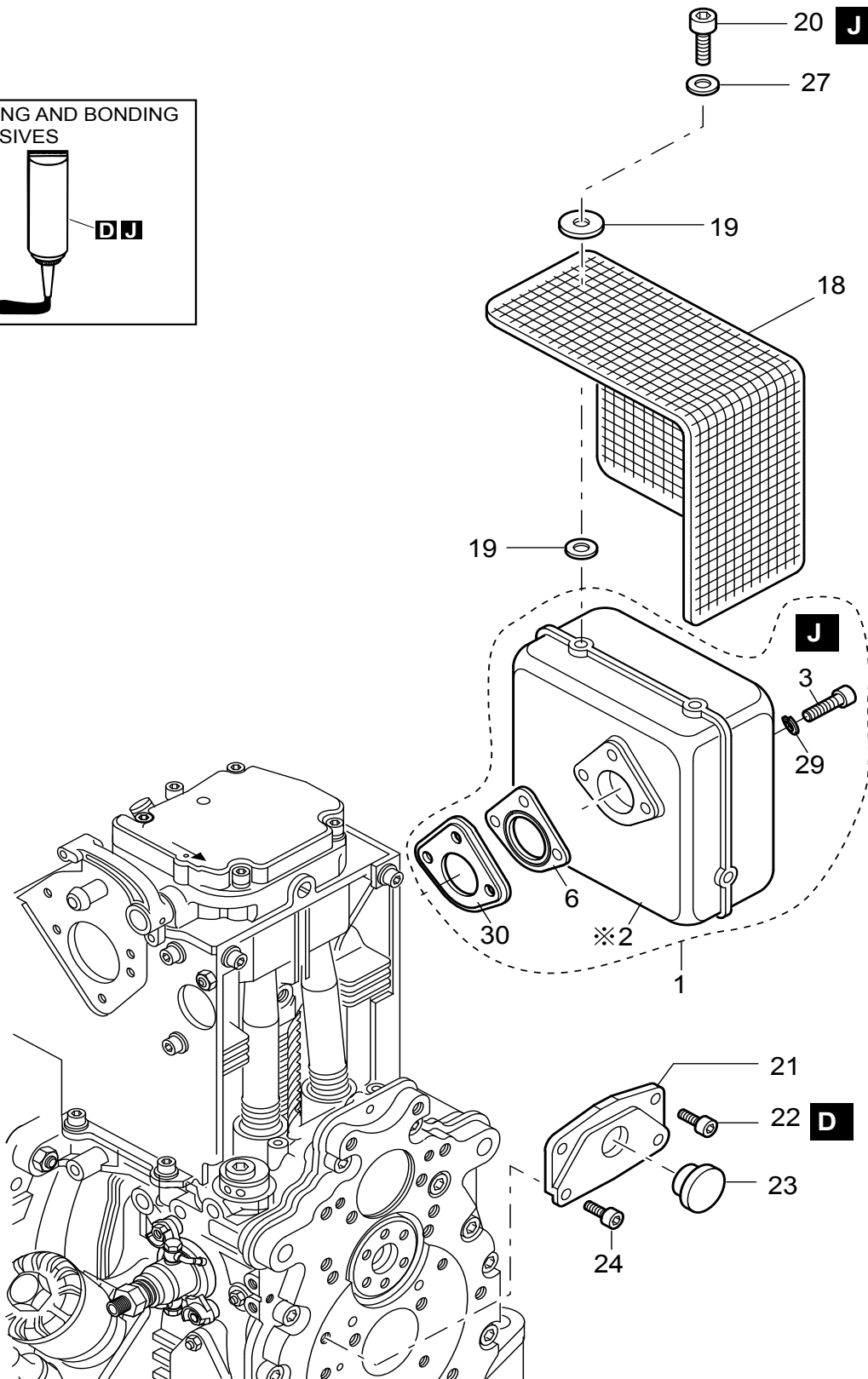
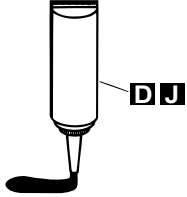
※ NOT SOLD SEPARATELY.

## HATZ 1D81S-325 ENGINE AIR FILTER ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                       | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|----------------------------------------|-------------|---------------------|
| 1          | 50038900        | STUD                                   | 2           |                     |
| 2          | 04006300        | GASKET, AIR FILTER                     | 3           |                     |
| 3          | 04006200        | INSULATING FLANGE                      | 1           |                     |
| 4%         |                 | HOUSING, AIR CLEANER .....             | 1.....      | NOT SOLD SEPARATELY |
| 5          | 50095100        | WASHER, LOCK                           | 1           |                     |
| 6          | 50398400        | ALLEN SCREW                            | 1           |                     |
| 7          | 01493000        | ELEMENT, AIR FILTER                    | 1           |                     |
| 8          | 01483401        | RETAINING BRACKET                      | 1           |                     |
| 9          | 50148100        | WASHER, FLAT                           | 2           |                     |
| 10         | 50129500        | HEXAGON NUT                            | 2           |                     |
| 12#        | 02024200        | CENTER RING COVER                      | 1           |                     |
| 15%        | 50062400        | JOINT A                                | 1           |                     |
| 16%        | 50062300        | ALLEN SCREW                            | 1           |                     |
| 34         | 02280100        | COVER, AIR FILTER, ASSY. ....          | 1.....      | INCLUDES ITEMS W/#  |
| 35%#       | 04047701        | SEAL STR. LG                           | 1           |                     |
| 36#        |                 | COVER, AIR FILTER .....                | 1.....      | NOT SOLD SEPARATELY |
| 40#        | 50452200        | WING SCREW                             | 1           |                     |
| 41         | 01287900        | GASKET, AIR FILTER                     | 1           |                     |
| 42         | 04047300        | INTERMEDIATE FLANGE                    | 1           |                     |
| 46#        |                 | PLUG, AIR FILTER COVER.....            | 2.....      | NOT SOLD SEPARATELY |
| 47         | 50120000        | DISC                                   | 2           |                     |
| 48         | 50602400        | NUT                                    | 2           |                     |
| 50         | 50406600        | HOSE CLIP                              | 2           |                     |
| 51         | 00575900        | CAP                                    | 1           |                     |
| 52         | 05033500        | VALVE PLATE                            | 1           |                     |
| 53\$       | 05044501        | INDICATOR. PLATE                       | 1           |                     |
| 54\$       | 05043601        | RUBBER CAP                             | 1           |                     |
| 55\$       | 05045600        | SIGNAL RING                            | 1           |                     |
| 56\$       | 05137200        | FILTER, MAINTENANCE INDICATOR          | 1           |                     |
| 57\$       | 05043700        | ADAPTER                                | 1           |                     |
| 58         | 50173500        | PIPE CLIP                              | 1           |                     |
| 59         | 50170900        | WASHER, LOCK                           | 1           |                     |
| 60         | 50170600        | ALLEN SCREW                            | 1           |                     |
| 61         | 05325400        | FUEL HOSE                              | 2           |                     |
| 62         | 05043800        | HOSE                                   | 1           |                     |
| 63         | 50159500        | RING PIECE                             | 1           |                     |
| 64         | 50006200        | BANJO BOLT                             | 1           |                     |
| 65         | 50062400        | JOINT A                                | 2           |                     |
| 66         | 01499801        | MAINTENANCE INDICATOR, ASSY. ....      | 1.....      | INCLUDES ITEMS W/\$ |
| 85         | 50358400        | STRAP                                  | 1           |                     |
| 86         | 01486601        | AIR FILTER HOUSING, ASSY., W/SEAL..... | 1.....      | INCLUDES ITEMS W/%  |
| 111        | 469467010       | INTAKE PIPE, CLEANER                   | 1           |                     |
| 112        | 466462840       | DUCT GROMMET                           | 1           |                     |

# HATZ 1D81S-325 ENGINE MUFFLER ASSY.

SEALING AND BONDING  
ADHESIVES

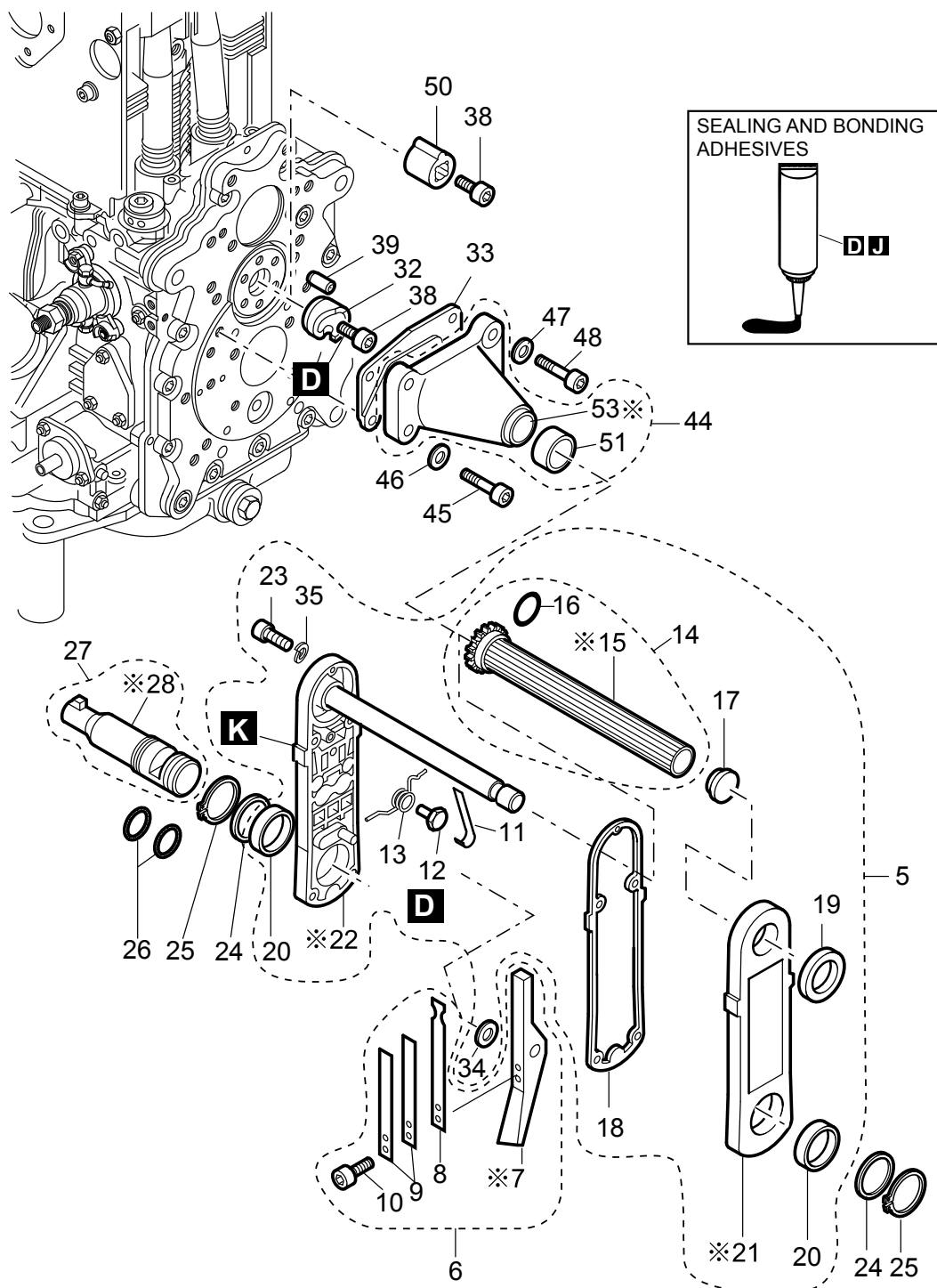


※ NOT SOLD SEPARATELY

## HATZ 1D81S-325 ENGINE MUFFLER ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>            | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|-----------------------------|-------------|---------------------|
| D          | 50223300        | LOCTITE 221                 | 1           |                     |
| J          | 50283004        | HIGH TEMPERATURE PASTE      | 1           |                     |
| 1          | 01498803        | EXHAUST SILENCER ASSY. .... | 1.....      | INCLUDES ITEMS W/\$ |
| 2\$        |                 | SILENCER, EXHAUST .....     | 1.....      | NOT SOLD SEPARATELY |
| 3\$        | 50404000        | ALLEN SCREW                 | 3           |                     |
| 6\$        | 03974300        | GASKET EXHAUST SILENCER     | 1           |                     |
| 18         | 01191902        | MUFFLER, GUARD              | 1           |                     |
| 19         | 05034202        | WASHER, LOCK                | 10          |                     |
| 20         | 50255700        | ALLEN SCREW                 | 5           |                     |
| 21         | 03985300        | GUARD                       | 1           |                     |
| 22         | 50135700        | ALLEN SCREW                 | 2           |                     |
| 23         | 40091400        | CLOSING CAP                 | 1           |                     |
| 24         | 50165400        | ALLEN SCREW                 | 2           |                     |
| 27         | 50120000        | WASHER, FLAT                | 5           |                     |
| 29\$       | 50208500        | WASHER, LOCK                | 3           |                     |
| 30\$       | 04125601        | SEALING PLATE               | 1           |                     |

# HATZ 1D81S-325 ENGINE STARTING HANDLE ASSY.



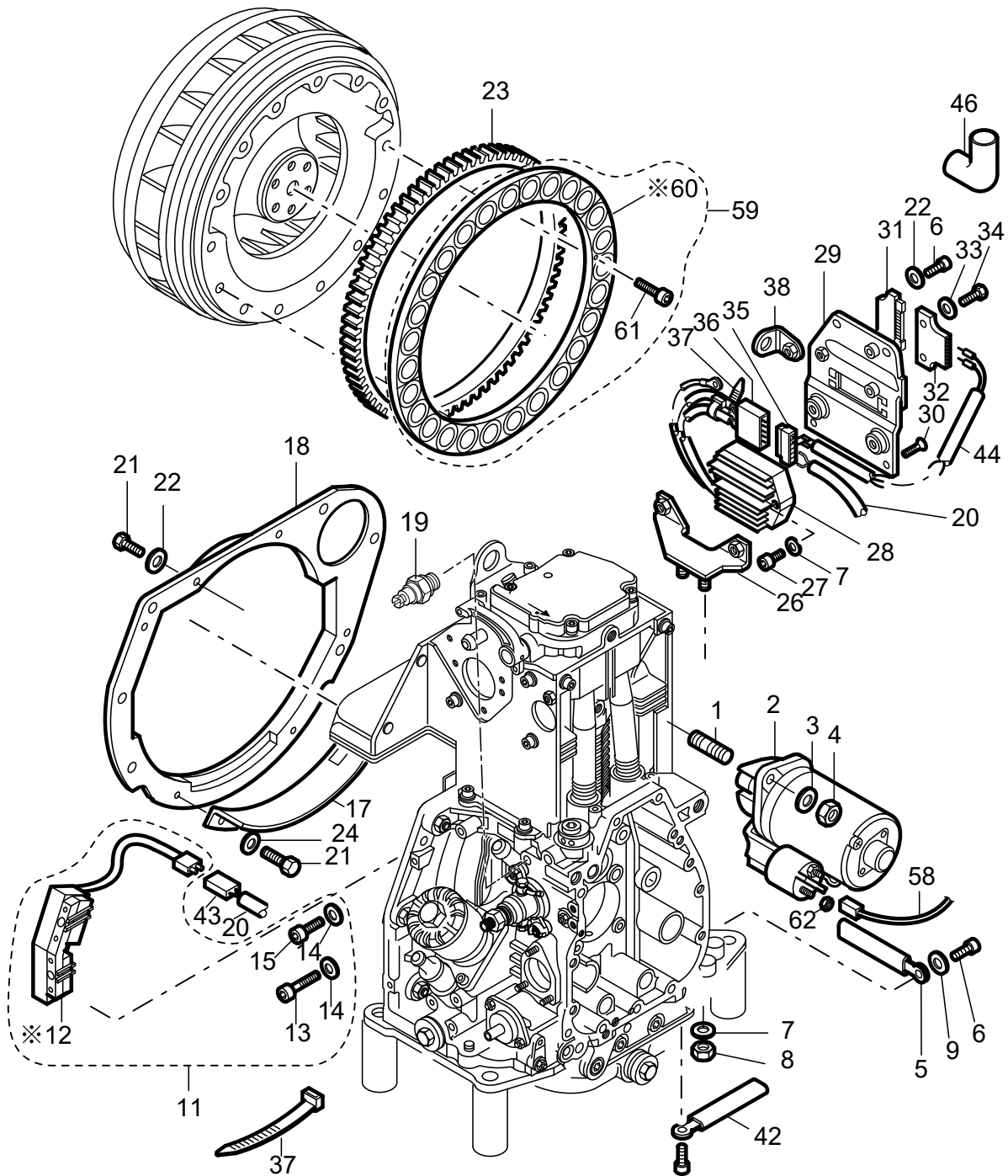
※ NOT SOLD SEPARATELY.



## HATZ 1D81S-325 ENGINE STARTING HANDLE ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                  | <u>QTY.</u> | <u>REMARKS</u>      |
|------------|-----------------|-----------------------------------|-------------|---------------------|
| D          | 50223300        | LOCTITE 221                       | 1           |                     |
| K          | 50342600        | HIGH TEMPERATURE FETT             | 1           |                     |
| 5          | 01027805        | CRANK HANDLE-SAFETY, ASSY. ....   | 1           | INCLUDES ITEMS W/\$ |
| 6\$        | 01011404        | LEVER, ASSY. ....                 | 1           | INCLUDES ITEMS W/@  |
| 7\$@       |                 | LEVER .....                       | 1           | NOT SOLD SEPARATELY |
| 8\$@       | 03812102        | PLATE SPRING                      | 1           |                     |
| 9\$@       | 03917100        | PLATE SPRING                      | 2           |                     |
| 10\$@      | 50316500        | ALLEN SCREW                       | 2           |                     |
| 11\$       | 03954900        | PLATE SPRING                      | 1           |                     |
| 12\$       | 03955600        | HEXAGON SCREW                     | 1           |                     |
| 13\$       | 03955900        | SPRING A                          | 1           |                     |
| 14\$       | 01011310        | HANDLE, OUTER W/O-RING .....      | 1           | INCLUDES ITEMS W/#  |
| 15\$#      |                 | HANDLE, OUTER.....                | 1           | NOT SOLD SEPARATELY |
| 16\$#      | 50169100        | O-RING                            | 1           |                     |
| 17\$       | 50199200        | CLOSING PLUG                      | 1           |                     |
| 18\$       | 03813000        | GASKET                            | 1           |                     |
| 19\$       | 50194200        | OIL SEAL                          | 1           |                     |
| 20\$       | 50193400        | BUSH                              | 2           |                     |
| 21\$       |                 | HOLDER, CRANK HANDLE, OUTER ..... | 1           | NOT SOLD SEPARATELY |
| 22\$       |                 | HOLDER, CRANK HANDLE, INNER.....  | 1           | NOT SOLD SEPARATELY |
| 23\$       | 50236600        | ALLEN SCREW                       | 5           |                     |
| 24         | 03928610        | SHIM                              | 2           |                     |
| 25         | 50194300        | CIRCLIP                           | 2           |                     |
| 26         | 50258500        | O-RING                            | 2           |                     |
| 27         | 01187202        | SHAFT, CRANK HANDLE .....         | 1           | INCLUDES ITEM W/+   |
| 28+        |                 | SHAFT .....                       | 1           | NOT SOLD SEPARATELY |
| 32         | 04020310        | CRANK JOW LEFT                    | 1           |                     |
| 33         | 03985300        | GUARD                             | 1           |                     |
| 34\$       | 50195800        | SHIM                              | 1           |                     |
| 35\$       | 50170900        | WASHER, LOCK                      | 5           |                     |
| 38         | 50134900        | ALLEN SCREW                       | 1           |                     |
| 39         | 50387100        | CYLINDER PIN                      | 1           |                     |
| 44         | 01459500        | GUIDING SHELL, W/BUSHING.....     | 1           | INCLUDES ITEM W/%   |
| 45         | 50183000        | ALLEN SCREW                       | 2           |                     |
| 46         | 50148100        | WASHER, FLAT                      | 2           |                     |
| 47         | 50145900        | WASHER, FLAT                      | 2           |                     |
| 48         | 50327800        | ALLEN SCREW                       | 2           |                     |
| 50         | 04082900        | CRANKING DEVICE                   | 1           |                     |
| 51%        | 50387601        | BUSHING 1"                        | 1           |                     |
| 53%        |                 | GUIDING SHELL .....               | 1           | NOT SOLD SEPARATELY |

# HATZ 1D81S-325 ENGINE STARTING MOTOR ASSY.

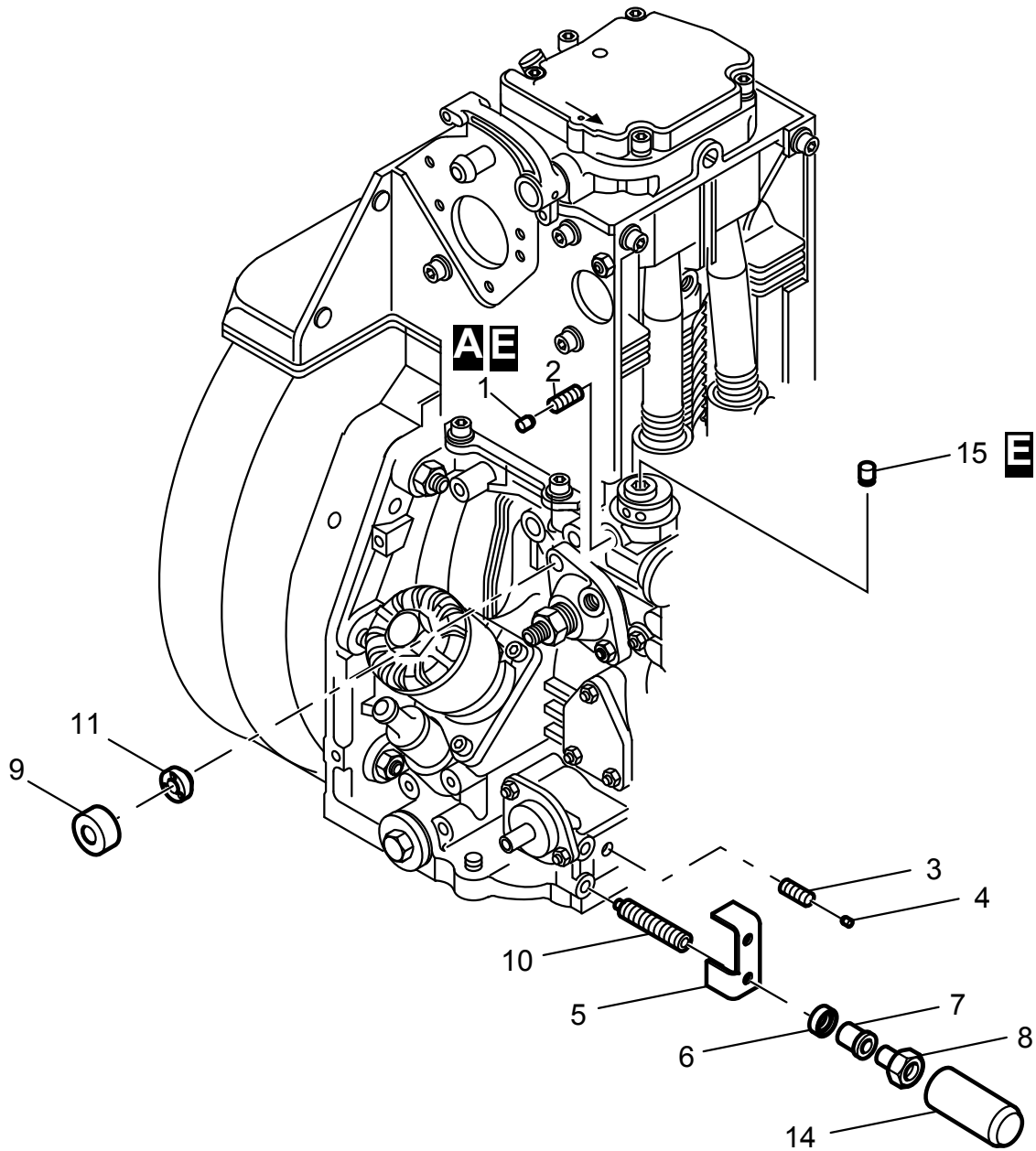


※ NOT SOLD SEPARATELY.

## HATZ 1D81S-325 ENGINE STARTING MOTOR ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u>                | <u>QTY.</u> | <u>REMARKS</u>        |
|------------|-----------------|---------------------------------|-------------|-----------------------|
| 1          | 50486400        | STUD                            | 2           |                       |
| 2          | 50495901        | STARTING MOTOR ASSY.            | 1           |                       |
| 3          | 50093700        | WASHER, FLAT                    | 2           |                       |
| 4          | 50380600        | HEXAGON NUT                     | 2           |                       |
| 5          | 05001200        | CLIP                            | 2           |                       |
| 6          | 50149100        | ALLEN SCREW                     | 2           |                       |
| 7          | 50208500        | WASHER, LOCK                    | 4           |                       |
| 8          | 020108060       | HEXAGON NUT .....               | 2           | REPLACES P/N 50148000 |
| 9          | 50144500        | WASHER, FLAT                    | 1           |                       |
| 11         | 01592400        | COIL ASSY. 12V 200W .....       | 1           | INCLUDES ITEMS W/\$   |
| 12\$       |                 | COIL.....                       | 1           | NOT SOLD SEPARATELY   |
| 13\$       | 50448800        | ALLEN SCREW                     | 1           |                       |
| 14\$       | 50390701        | CON. WASHER, LOCK               | 2           |                       |
| 15\$       | 50448700        | ALLEN SCREW                     | 1           |                       |
| 17         | 04021100        | PROTECT. ALTERNATOR             | 1           |                       |
| 18         | 04009920        | PARTING SHEET                   | 1           |                       |
| 19         | 50272201        | OIL PRESSURE SWITCH             | 1           |                       |
| 20         | 01558300        | ELECTRIC WIRE .....             | 1           | REPLACES P/N 01462800 |
| 21         | 50165500        | HEXAGON SCREW                   | 5           |                       |
| 22         | 50170900        | WASHER, LOCK                    | 6           |                       |
| 23         | 04021210        | GEAR, RING                      | 1           |                       |
| 24         | 50144500        | WASHER, FLAT                    | 2           |                       |
| 26         | 01440303        | SUPPORT                         | 1           |                       |
| 27         | 50183000        | ALLEN SCREW                     | 2           |                       |
| 28         | 01983800        | REGULATOR 12V                   | 1           |                       |
| 29         | 01440100        | FASTENING PLATE                 | 1           |                       |
| 30         | 50422501        | COUNTER SUNK SCREW              | 2           |                       |
| 31         | 50373700        | PLUG SLEEVE HOUSING             | 1           |                       |
| 32         | 50373600        | PIN TERM. HOUSING 6-WAY         | 1           |                       |
| 33         | 50216300        | WASHER                          | 2           |                       |
| 34         | 50335700        | HEXAGON SCREW                   | 2           |                       |
| 35         | 50402100        | PLUG SLEEVE HOUSING             | 1           |                       |
| 36         | 50402000        | PLUG HOUSING 4-P                | 1           |                       |
| 37         | 50358400        | STRAP                           | 4           |                       |
| 38         | 01440200        | SUPPORT                         | 1           |                       |
| 42         | 05023900        | CLIP                            | 2           |                       |
| 43         | 50379700        | PLUG HOUSING 2-P                | 1           |                       |
| 44         | 01439400        | WIRING HARNESS                  | 1           |                       |
| 46         | 40026600        | PROTECTION CAP                  | 1           |                       |
| 58         | 01193401        | ELECT. WIRE STARTER             | 1           |                       |
| 59         | 01587300        | MAGNETIC RING, ASSY. 200W ..... | 1           | INCLUDES ITEMS W/%    |
| 60%        |                 | MAGNETIC RING .....             | 1           | NOT SOLD SEPARATELY   |
| 61%        | 50446900        | ALLEN SCREW                     | 14          |                       |
| 62         | 50344700        | HEXAGON NUT                     | 1           |                       |

## HATZ 1D81S-325 ENGINE SPEC. EQUIPMENT ASSY.



## **HATZ 1D81S-325 ENGINE SPEC. EQUIPMENT ASSY.**

| <b><u>NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>PART NAME</u></b> | <b><u>QTY.</u></b> | <b><u>REMARKS</u></b> |
|-------------------|------------------------|-------------------------|--------------------|-----------------------|
| A                 | 50223001               | LOCTITE ACTIVATOR N     | 1                  |                       |
| E                 | 50223400               | LOCTITE 574             | 1                  |                       |
| 1                 | 04167010               | CLOSING PLUG            | 1                  |                       |
| 2                 | 50004600               | GRUB SCREW              | 1                  |                       |
| 3                 | 50403500               | GRUB SCREW              | 1                  |                       |
| 4                 | 04153700               | CLOSING PLUG            | 1                  |                       |
| 5                 | 04153800               | SUPPORT                 | 1                  |                       |
| 6                 | 04134200               | DISC                    | 1                  |                       |
| 7                 | 04129700               | BUSHING                 | 1                  |                       |
| 8                 | 04126700               | THREADED BUSHING        | 1                  |                       |
| 9                 | 04244500               | CAP                     | 2                  |                       |
| 10                | 50507800               | GRUB SCREW              | 2                  |                       |
| 11                | 04239200               | SECURING NUT            | 2                  |                       |
| 14                | 04187700               | CAP                     | 1                  |                       |
| 15                | 04205900               | CLOSING PLUG            | 1                  |                       |

# PARTS MANUAL

## HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL  
NUMBER ON-HAND WHEN CALLING

### UNITED STATES

#### ***Multiquip Inc.***

(310) 537- 3700  
6141 Katella Avenue Suite 200  
Cypress, CA 90630  
E-MAIL: [mq@multiquip.com](mailto:mq@multiquip.com)  
WEBSITE: [www.multiquip.com](http://www.multiquip.com)

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### CANADA

#### ***Multiquip***

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Laval, Quebec, Canada H7L 6V3  
E-MAIL: [infocanada@multiquip.com](mailto:infocanada@multiquip.com)

### UNITED KINGDOM

#### ***Multiquip (UK) Limited Head Office***

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Dukinfield, Cheshire SK16 4UJ  
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This manual MUST accompany the equipment at all times. This manual is considered a permanent part of the equipment and should remain with the unit if resold.

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