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CMAXS

Spare Parts Inventory Control Operation Manual

(Shipboard System)

IMC Co., Ltd.

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1. System Outline

This system facilitates spare parts control for onboard machinery. There are major functions for spare parts inventory control and procurement of required spare parts etc. It consists of Headquarters System and Shipboard System installed on the ships managed under this system. Moreover, the user are restricted for each function as below.

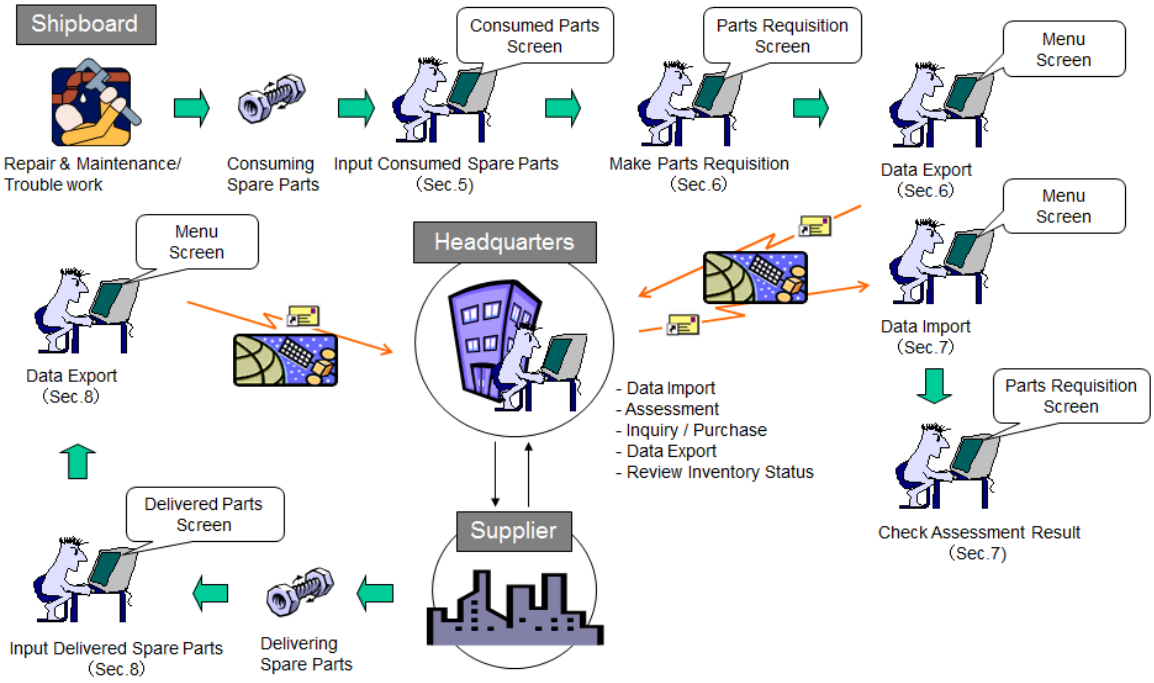
1.1 Main Function

User : A:Administrator B:Approval C:Input D:Review

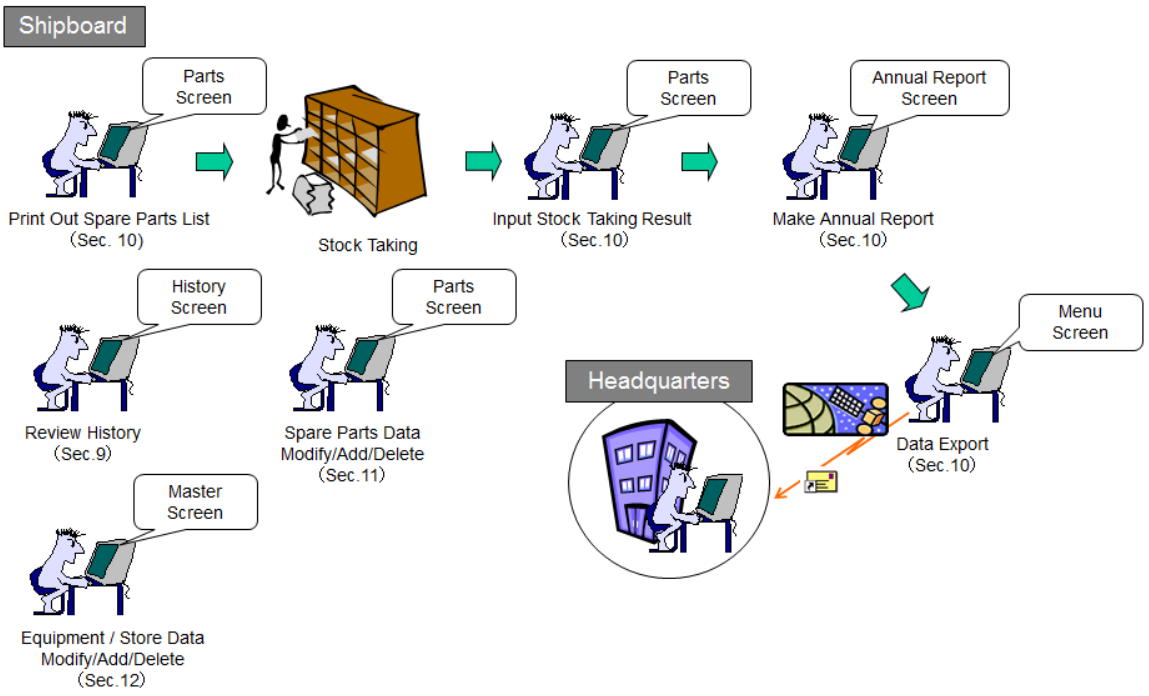
Item	Function	Headquarters	Shipboard	
Consumed Parts	Review	—	D	—
	Select & Input	—	C	
	Complete	—	C	
Parts Requisition	Review	D	D	5
	Select & Input	—	C	
	Complete	—	B	
Order Assessment	Review	D	D	7
	Input	C	—	
Order Sheet	Review	D	—	7
	Generate	C	—	
Delivered Parts	Review	D	D	8
	Select & Input	—	C	
	Complete	—	B	
History	Review	D	D	9
Annual Report	Review	D	D	10
	Input	—	C	
	Complete	—	B	
Master Data (Spare Parts)	Review	D	D	11
	Modify/Add/Delete	—	C	
	Modify (Spare Qty & SMS)	B	—	
Master Data (Equipment)	Review	D	D	12
	Modify/Add/Delete	—	C	
Master Data (Store)	Review	D	D	13
	Modify/Add/Delete	—	C	
Master Data (Supplire)	Review	D	—	14
	Modify/Add/Delete	C	—	
Data Export / Import	Execution	C	C	6,7,8,10
User Authority and Password	Modify	A	A	エラー! 参照元が見つかりません。
Controls	Modify	B	B	16

Data Backup / Restore	Execute	C	C	17

1.2 Basic Operational Flow (Routine Work)



1.3 Basic Operational Flow (Occasional Work)



1.4 System requirement

The system requirement is as follow.

PC	IBM PC/AT compatible with Intel Pentium IV processor (or equivalent) and later
OS	WindowsXP/VISTA/7
RAM	512MB (1024MB recommended)
Free hard-disk space	50MB （Depend on Package software number and kinds）
Monitor	XGA (1024 x 768) or higher-resolution monitor with 32bit

1.5 About the version up of program

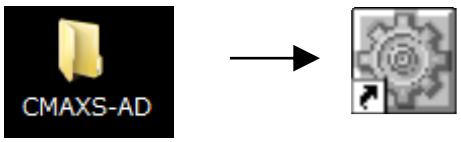
Ver.7.x.x

_ _ _
| | |-- In case of a small-scale revision of program.
| |---- In case of a medium-scale revision of program.
|------ In case of a large-scale revision of program.

2. System Start / Stop

2.1 Star of Spare Parts Inventory Control System

1. On the MS-Windows Desktop screen, double-click "CMAXS" folder and “Spare Parts Inventory Control System" icon in that folder.



2. Login Dialog”(Fig.2.2.1) is displayed. Input password and press [Enter] key.

   ※ As default set, “C/E" (Chief Engineer) for administrator authority is registered. Please change user authority and password before actual operation. As for user authority and password, refer to Section 13.

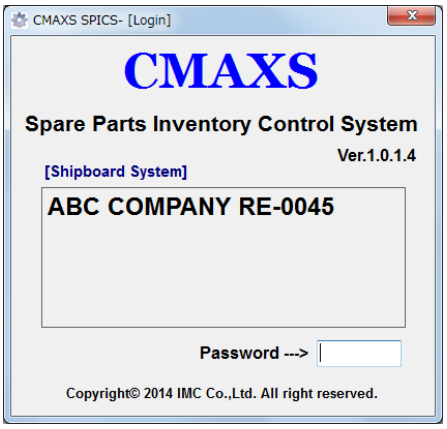


Fig 2.2.1 Login

3. "Guidance Dialog”(Fig.2.2.2) is displayed. Confirm your login name and authority.

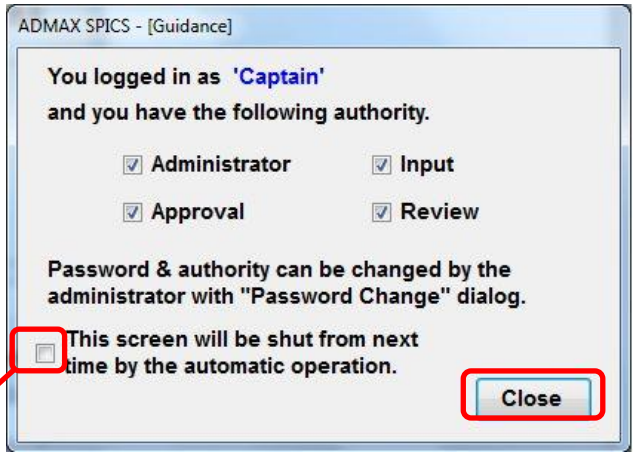


Fig 2.2.2 Guidance

If you want to skip "Guidance Dialog”at next time, put check mark on check box. This setting can be reset by Control Change function. (Refer to Section 16)

4. Select [Close] button.

5. ”Menu Screen”(Fig.2.2.3) is displayed.

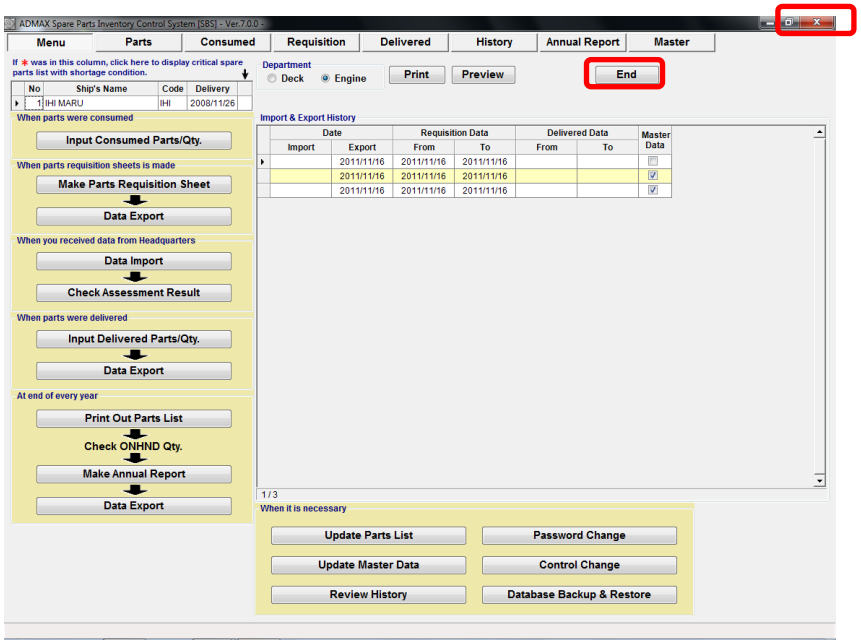


Fig 2.2.3 Menu

6. If you want to end the system, select [x] button of right upper corner.

3. Screen Description

3.1 [Menu] Screen

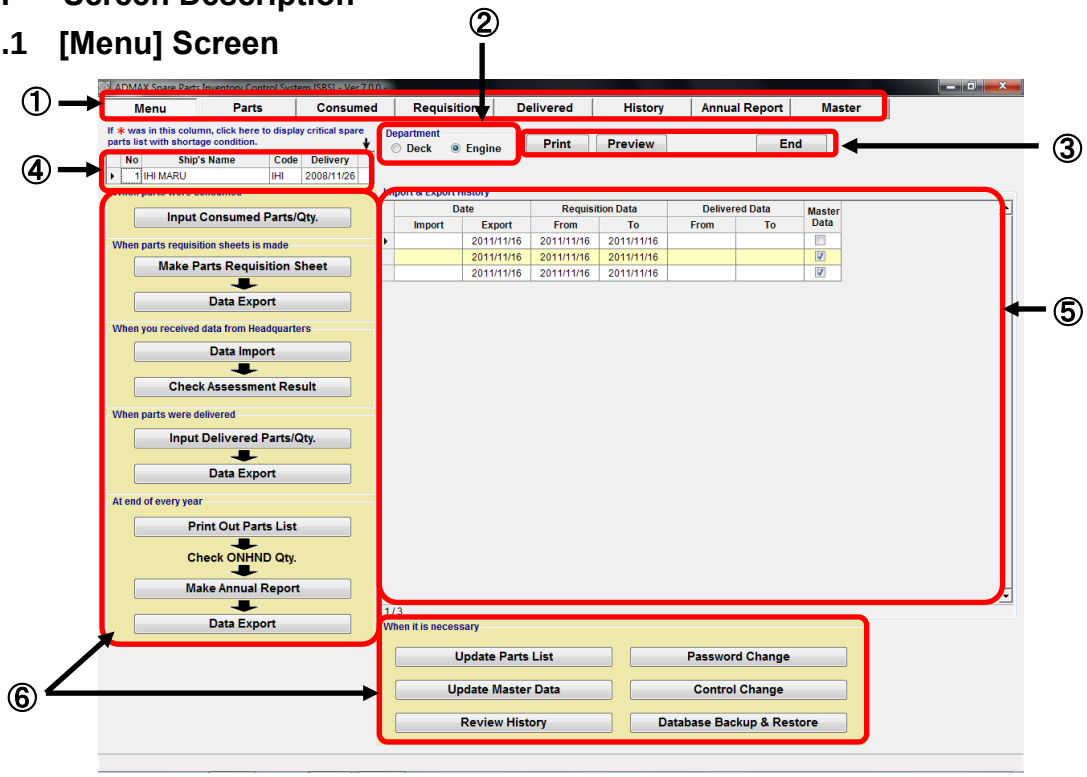


Fig 3.1 Menu

① **Menu**
② **Department**
③ **Operation button**
④ **Ship List**
⑤ **Import & Export History**
⑥ **Workflow**

3.2 [Parts] Screen

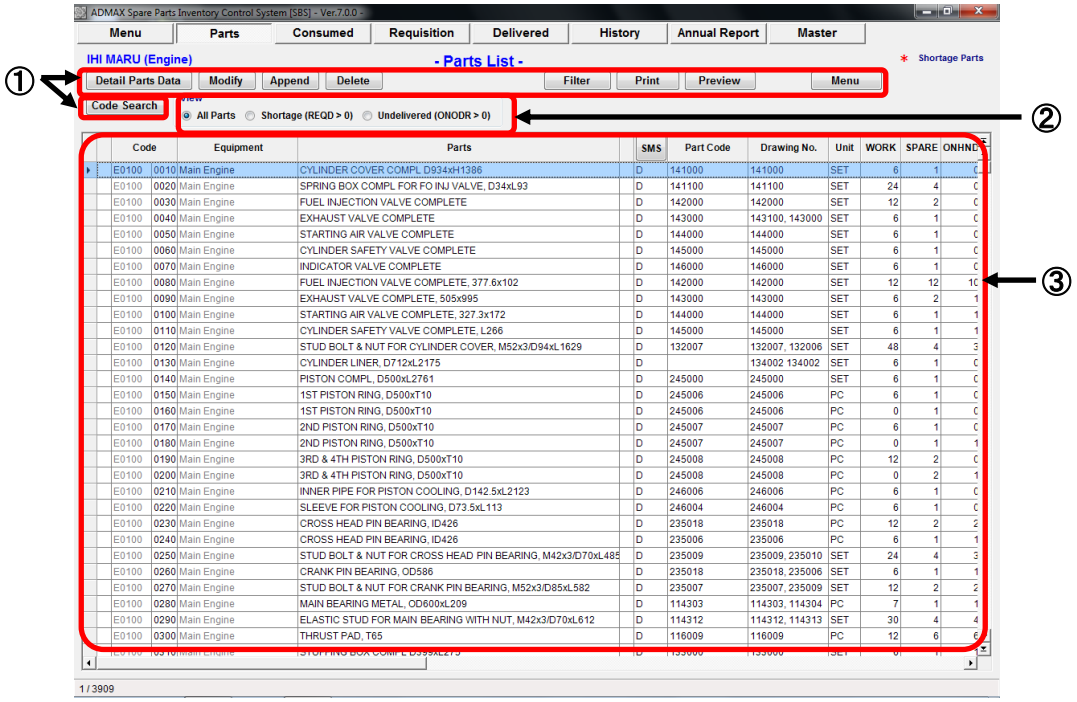


Fig 3.2 Parts

① **Operation button**

[Detail Parts Data] : Sec. 3.3
[Modify] : Sec.11.1
[Append] : Sec.11.2
[Delete] : Sec.11.3
[Print] : Print out Parts List.
[Preview] : Print review.
[Menu] : Sec.3.1
[Code Search] : Sec.16.1

② **View select**

All Parts : Display of All Parts.
Shortage (Required > 0) : Display of Parts Shortage.
Undelivered (On Order > 0) : Display of Undelivered Parts.

③ **Parts List**

(1) Code : Equipment code and/or spare parts code
(2) Equipment : Equipment name
(3) Parts : Spare parts name
(4) SMS : Spare parts type (This title can be changed. Refer to Section 14)
(5) Part Code : Maker's spare parts' code
(6) Drawing No. : Drawing Number
(7) Unit : Unit for spare parts
(8) Working : Spare parts working quantity
(9) Standard : Standard spare parts stock quantity
(10) Spare R.O.B : Current spare parts stock quantity
(11) On Order : Un-received spare parts quantity
(12) Required : Required = Standard – (Spare R.O.B + On Order)
(13) Item Code : Spare parts drawing + page + item number
(14) Cost Code : Cost code for budget control
(15) Price : Spare parts unit price
(16) Store : Store location
(17) Remarks : Remarks

3.3 [Parts Detail] Dialog

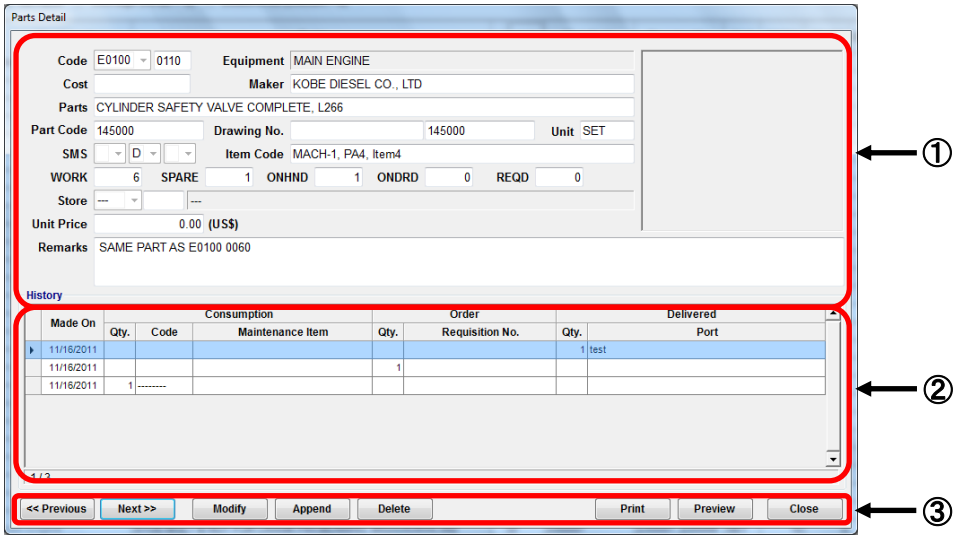


Fig 3.2 Parts Detail

① **Parts Detail**

② **Consumption, Requisition & Delivery History**

(1) Made On :
(2) Consumption Qty. :
(3) Consumption Code :
(4) Consumption Maintenance Item :
(5) Order Qty. :
(6) Order Requisition No. :
(7) Delivered Qty. :
(8) Delivered Port :
(9) Unit Price :

③ **Operation button**

[<< Previous] :
[Next >>] :
[Modify] :
[Append] :
[Delete] :
[Print] :
[Preview] :
[Close] :

3.4 [Consumed] Screen

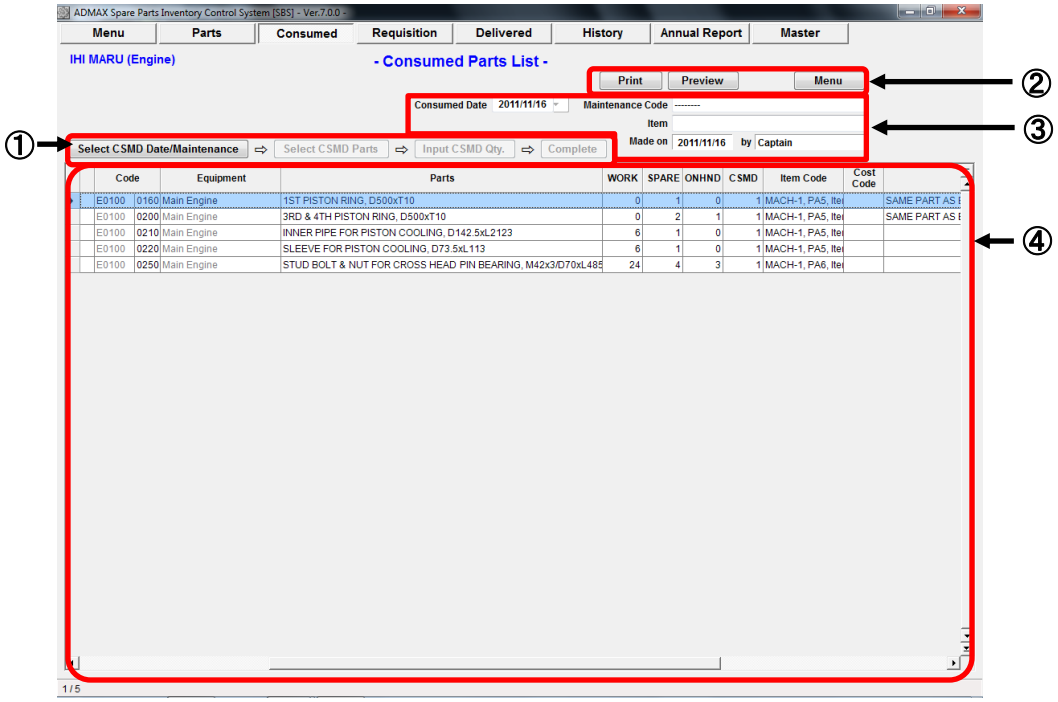


Fig 3.4 Consumed

① **Workflow button**
[Select Consumed Date/Maintenance] : Sec.3.5
[Select Consumed Parts] :
[Input Consumed Qty.] :
[Complete] :

② **Operation button**
[Print] : Print out Parts List.
[Preview] : Print review.
[Menu] : Sec.3.1

③ **Property of spare parts consumption data**

④ **Consumed spare parts data**
(1) Code : Equipment code and/or spare parts code
(2) Equipment : Equipment name
(3) Parts : Spare parts name
(4) Working : Spare parts working quantity
(5) Standard : Standard spare parts stock quantity
(6) Spare R.O.B : Current spare parts stock quantity
(7) Consumed : Consumed spare parts quantity
(8) Item Code : Spare parts drawing + page + item number
(9) Cost Code : Cost code for budget control
(10) Remarks : Remarks

3.5 [Consumed List] Screen

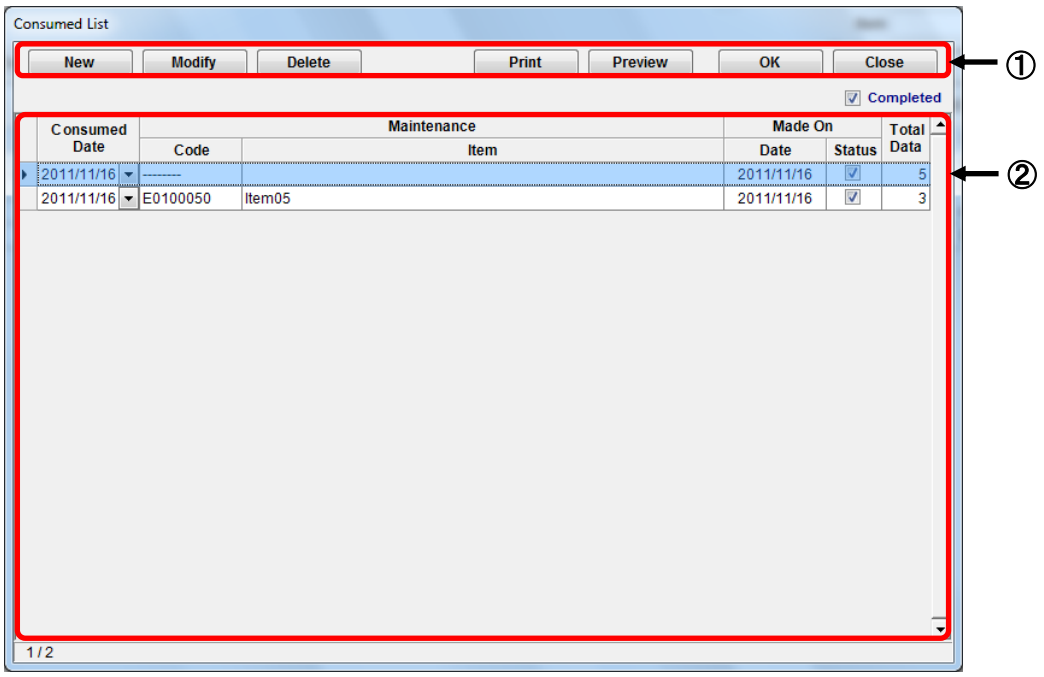


Fig 3.5 Consumed List

① **Operation button**

[New] : Make new consumption data
[Modify] : Modify consumed date, maintenance code, item and made on date
[Delete] : Delete specified consumption data
[Print] : Print out Parts List.
[Preview] : Print review.
[Close] : Close screen

② **Consumption History**

(1) Consumed Date :
(2) Maintenance Code :
(3) Maintenance Item :
(4) Made On Date :
(5) Made On Status :
(6) Total Data :

3.6 [Requisition] Screen

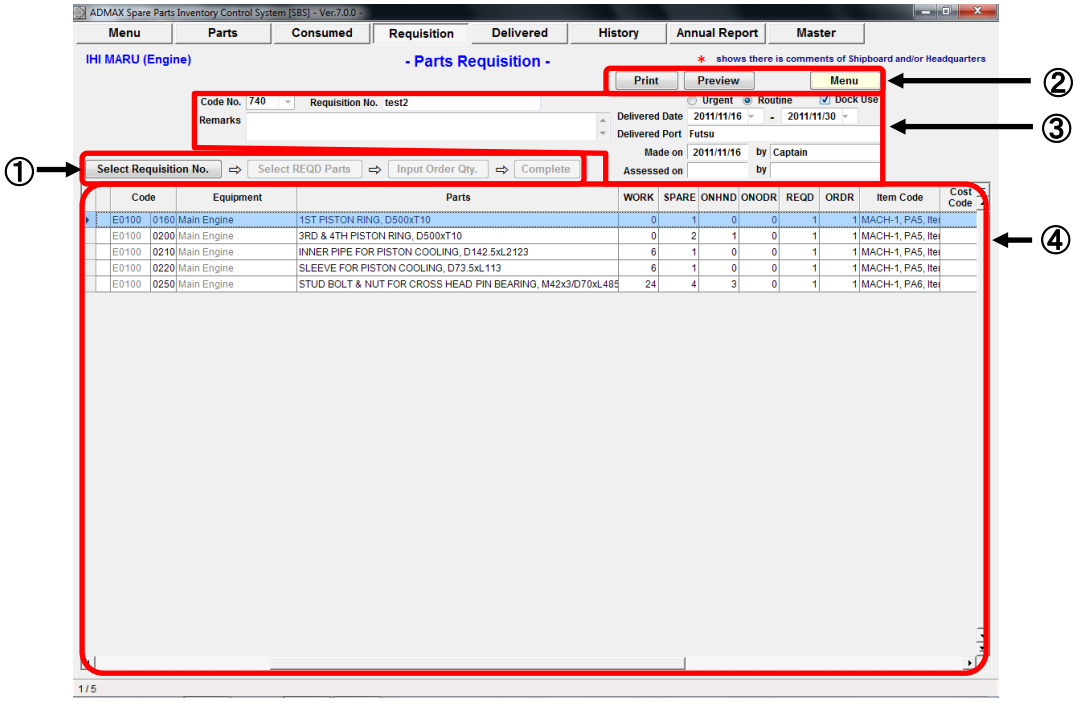


Fig 3.6 Requisition

① **Workflow button**
- [Select Requisition No.] : Sec 3.7
- [Select Required Parts] :
- [Input Order Qty.] :
- [Complete] :

② **Operation button**
- [Print] : Print out Parts List.
- [Preview] : Print review.
- [Menu] : Sec.3.1

③ **Property of spare parts requisition data**

④ **Required spare parts data**
- (1) Code : Equipment code and/or spare parts code
- (2) Equipment : Equipment name
- (3) Parts : Spare parts name
- (4) Working : Spare parts working quantity
- (5) Standard : Standard spare parts stock quantity
- (6) Spare R.O.B : Current spare parts stock quantity
- (7) Order : Required spare parts quantity
- (8) Item Code : Spare parts drawing + page + item number
- (9) Cost Code : Cost code for budget control
- (10) Remarks : Remarks

3.7 [Order List] Dialog

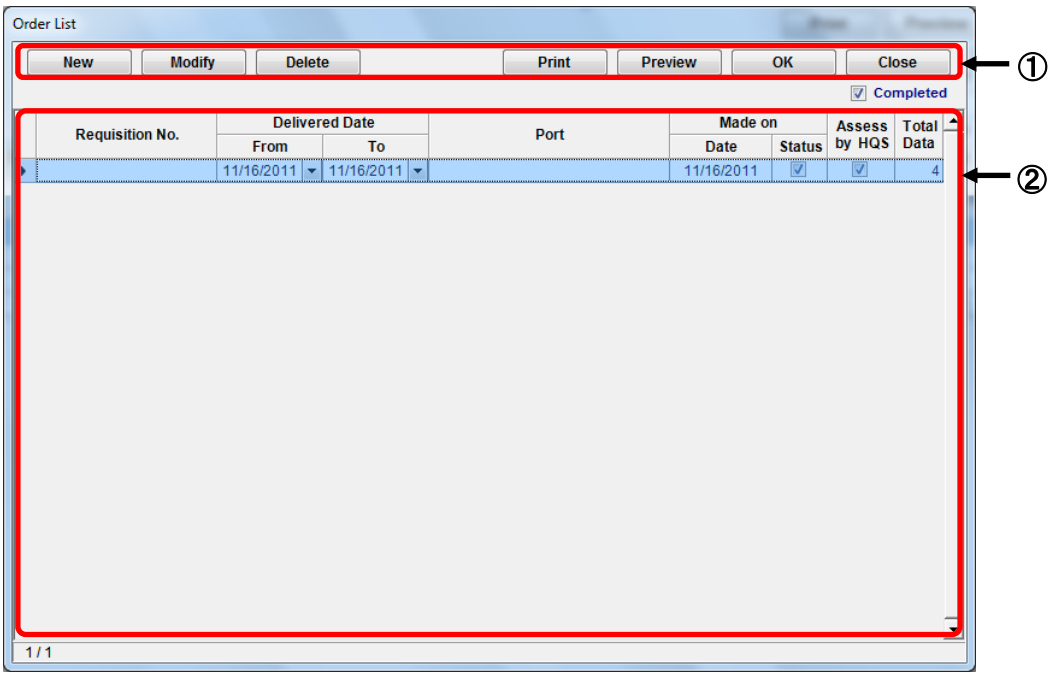


Fig 3.7 Order List

① **Operation Button**

[New]	: Make new requisition data
[Modify]	: Modify requisition No, delivered date, port and made on date
[Delete]	: Delete specified requisition data
[Print]	: Print out Parts List.
[Preview]	: Print review.
[Close]	: Close screen

② **Requisition History**

(1) Requisition No.	:
(2) Delivered Date From	:
(3) Delivered Date To	:
(4) Port	:
(5) Made On Date	:
(6) Made On Status	:
(7) Assess by HQS	:
(8) Total Data	:

3.8 [Delivered] Screen

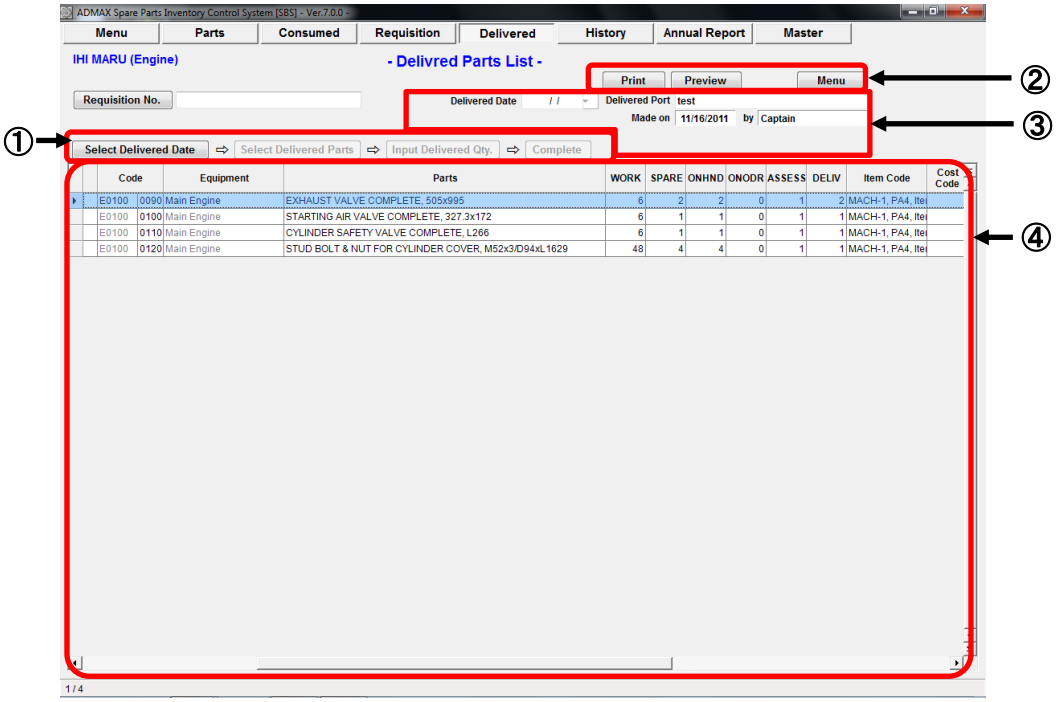


Fig 3.8 Delivered

① **Workflow button**

[Select Delivered Date]	: Sec 3.9
[Select Delivered Parts]	:
[Input Delivered Qty.]	:
[Complete]	:

② **Operation button**

[Print]	: Print out Parts List.
[Preview]	: Print review.
[Menu]	: Sec.3.1

③ **Property of spare parts delivery data**

④ **Delivered spare parts data**

(1) Code	: Equipment code and/or spare parts code
(2) Equipment	: Equipment name
(3) Parts	: Spare parts name
(4) Working	: Spare parts working quantity
(5) Standard	: Standard spare parts stock quantity
(6) Spare R.O.B	: Current spare parts stock quantity
(7) On Order	: Un-received spare parts quantity
(8) ASSESS	: Assessed spare parts quantity by Headquarters
(9) Delivered	: Delivered spare parts quantity
(10) Item Code	: Spare parts drawing + page + item number
(11) Cost Code	: Cost code for budget control
(12) Remarks	: Remarks

3.9 [Delivered List] Dialog

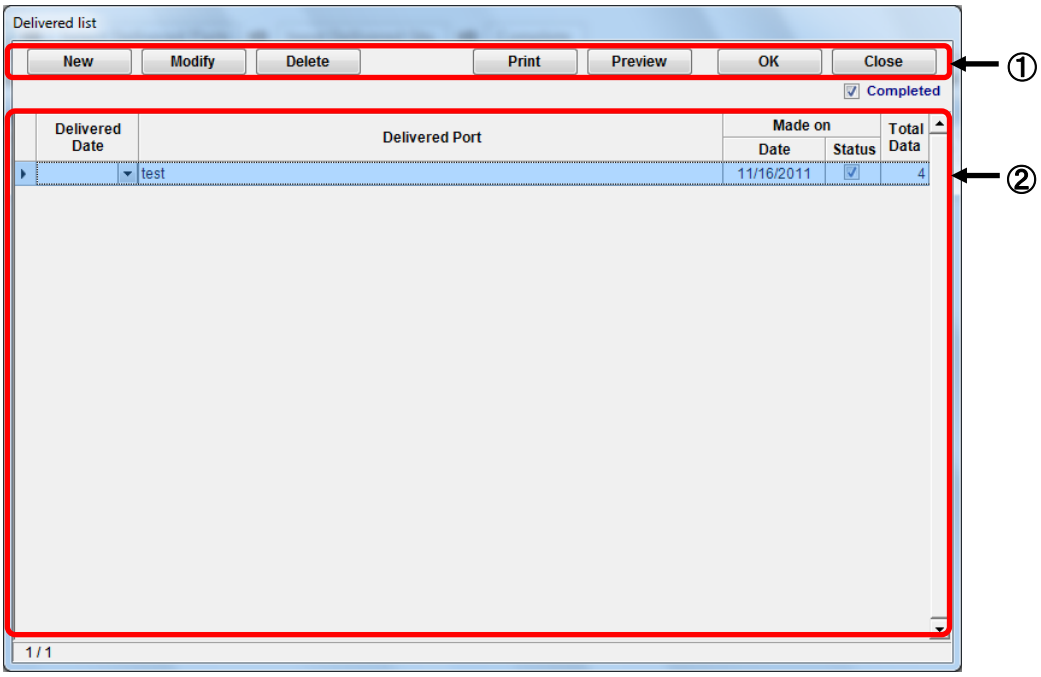


Fig 3.9 Delivered List

① **Operation button**

[New]	: Make new delivery data
[Modify]	: Modify delivered date, port and made on date
[Delete]	: Delete specified delivery data
[Print]	: Print out Parts List.
[Preview]	: Print review.
[Close]	: Close screen

② **Delivery History**

(1) Requisition No.	:
(2) Delivered Date From	:
(3) Delivered Date To	:
(4) Port	:
(5) Made On Date	:
(6) Made On Status	:
(7) Assess by HQS	:
(8) Total Data	:

3.10 [History] Screen

3.10.1 Consumed Parts

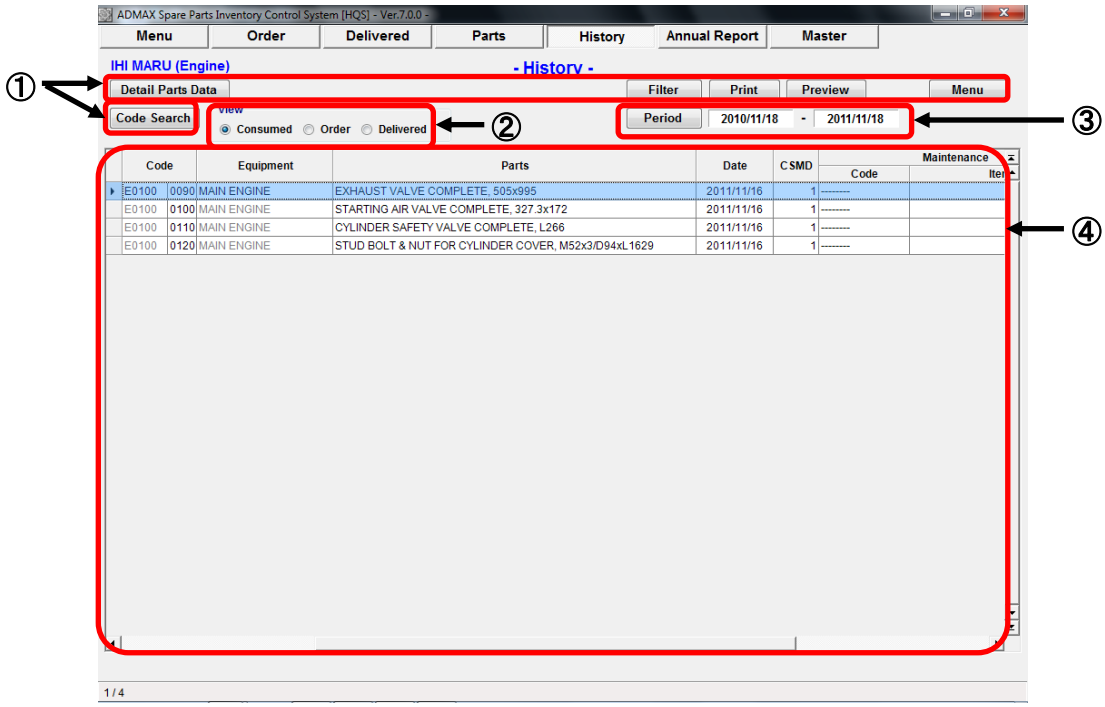


Fig 3.10.1 Consumed Parts

① **Operation button**

[Detail Parts Data]	: Sec. 3.3
[Print]	: Print out Parts List.
[Preview]	: Print review.
[Menu]	: Sec.3.1
[Code Search]	: Sec.16.1

② **View Select**

◎Consumed	: Display of Consumed list
○Order	: Display of Order list
○Delivered	: Display of Delivered list

③ **[Period]**

④ **Consumed spare parts data**

(1) Code	: Equipment code and/or spare parts code
(2) Equipment	: Equipment name
(3) Parts	: Spare parts name
(4) SMS	: Spare parts type (This title can be changed. Refer to Section 14)
(5) Part Code	: Maker's spare parts' code
(6) Drawing No.	: Drawing Number
(7) Unit	: Unit for spare parts
(8) Working	: Spare parts working quantity
(9) Standard	: Standard spare parts stock quantity
(10) Date	: Consumed Date
(11) Consumed	: Consumed Quantity
(12) Maintenance Code	: Maintenance item code parts was consumed with
(13) Maintenance Item	: Maintenance item name parts was consumed with
(14) Item Code	: Spare parts drawing + page + item number
(15) Cost Code	: Cost code for budget control

3.10.2 Ordered Parts

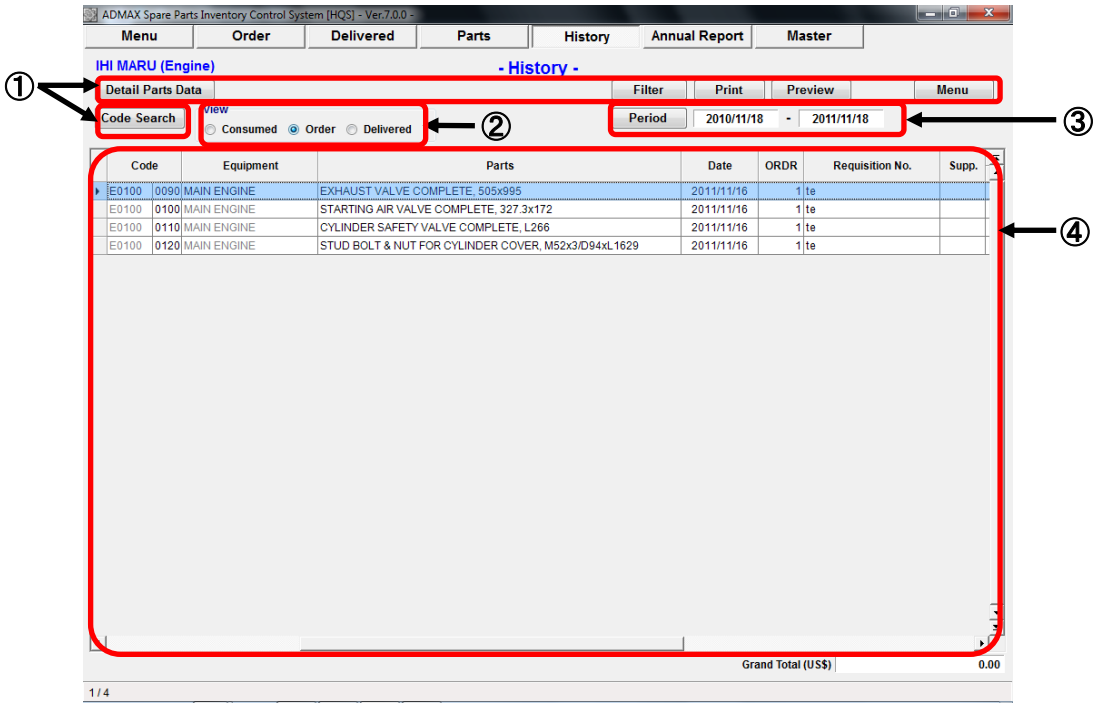


Fig 3.10.2 Ordered Parts

① **Operation button**

[Detail Parts Data]	: Sec. 3.3
[Print]	: Print out Parts List.
[Preview]	: Print review.
[Menu]	: Sec.3.1
[Code Search]	: Sec.16.1

② **View Select**

◎Consumed	: Display of Consumed list
○Order	: Display of Order list
○Delivered	: Display of Delivered list

③ **[Period]**

④ **Required spare parts data**

(1) Code	: Equipment code and/or spare parts code
(2) Equipment	: Equipment name
(3) Parts	: Spare parts name
(4) SMS	: Spare parts type (This title can be changed. Refer to Section 14)
(5) Part Code	: Maker's spare parts' code
(6) Drawing No.	: Drawing Number
(7) Unit	: Unit for spare parts
(8) Working	: Spare parts working quantity
(9) Standard	: Standard spare parts stock quantity
(10) Date	: Consumed Date
(11) Order	: Required spare parts quantity
(12) Requisition No.	: Requisition No.
(13) Item Code	: Spare parts drawing + page + item number
(14) Cost code	: Cost code for budget control

3.10.3 Delivered Parts

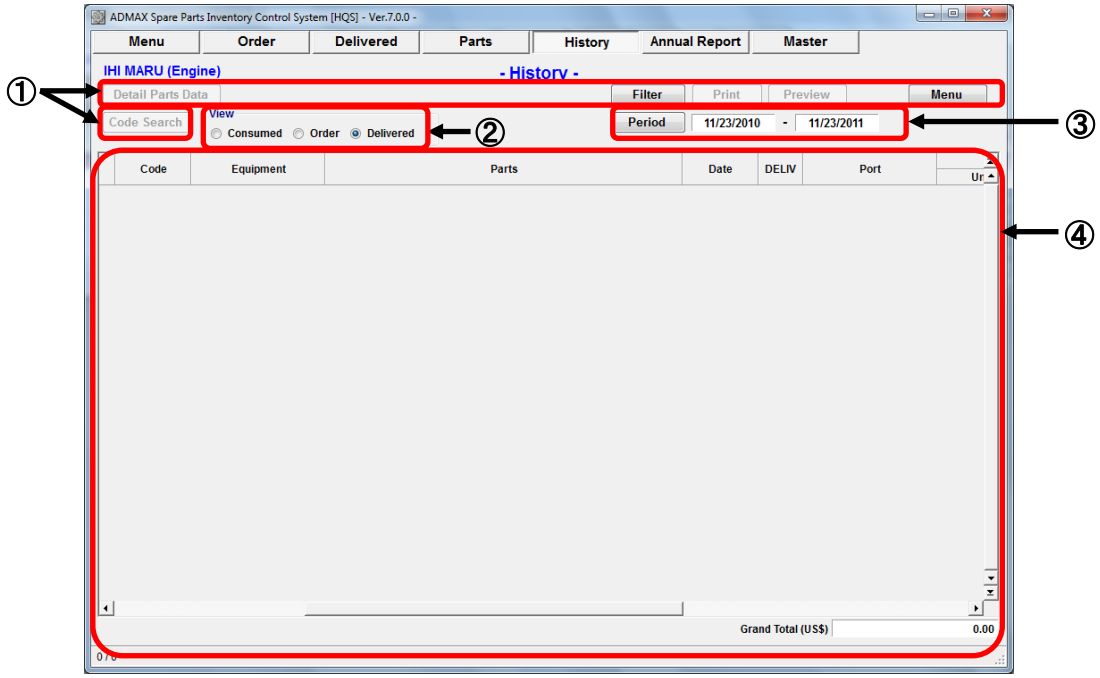


Fig 3.10.3 Delivered Parts

① **Operation button**

[Detail Parts Data]	: Sec. 3.3
[Print]	: Print out Parts List.
[Preview]	: Print review.
[Menu]	: Sec.3.1
[Code Search]	: Sec.16.1

② **View Select**

○Consumed	: Display of Consumed list
○Order	: Display of Order list
◎Delivered	: Display of Delivered list

③ **[Period]**

④ **Delivered spare parts data**

(1) Code	: Equipment code and/or spare parts code
(2) Equipment	: Equipment name
(3) Parts	: Spare parts name
(4) SMS	: Spare parts type (This title can be changed. Refer to Section 14)
(5) Part Code	: Maker's spare parts' code
(6) Drawing No.	: Drawing Number
(7) Unit	: Unit for spare parts
(8) Working	: Spare parts working quantity
(9) Standard	: Standard spare parts stock quantity
(10) Date	: Delivery Date
(11) Delivered	: Delivered spare parts quantity
(12) Port	: Delivery port
(13) Price (Unit)	: Spare parts unit price
(14) Price (Total)	: Spare parts unit price x quantity
(15) Item Code	: Spare parts drawing + page + item number
(16) Cost Code	: Cost code for budget control

3.11 [Annual Report] Screen

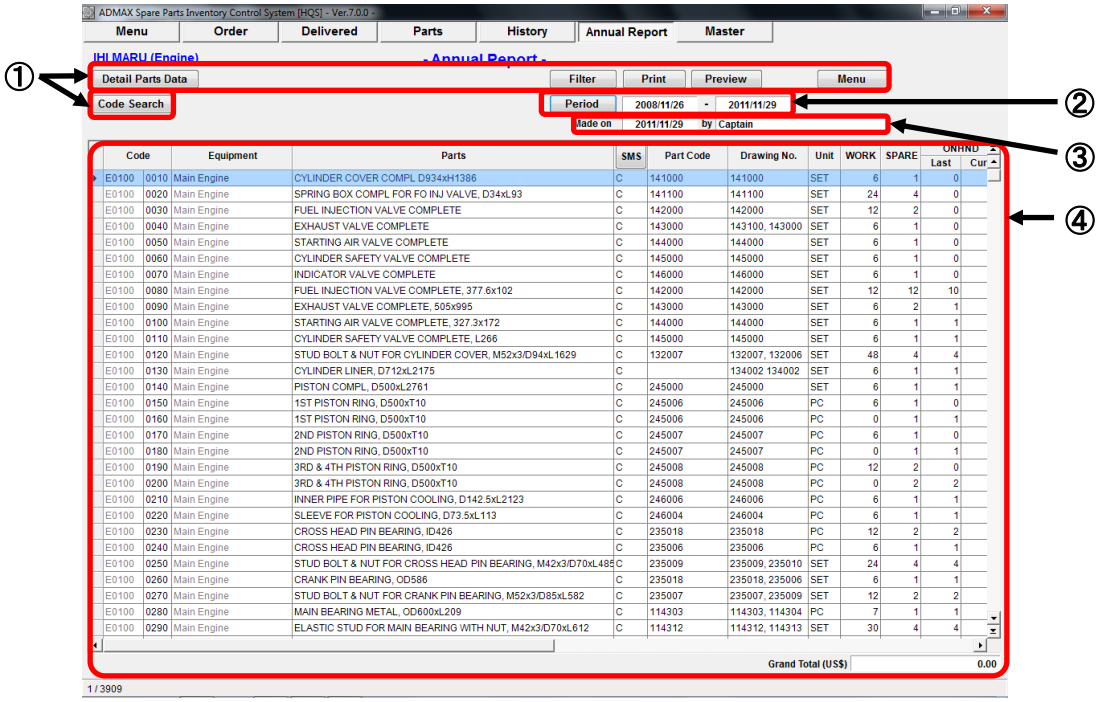


Fig 3.11 Annual Report

① **Operation button**

[Detail Parts Data] : Sec. 3.3
[Filter] : Sec 16.2
[Print] : Print out Parts List.
[Preview] : Print review.
[Menu] : Sec.3.1
[Code Search] : Sec.16.1

② **[Period]**

③ **Property of annual report**

④ **Spare Parts annual report**

(1) Code : Equipment code and/or spare parts code
(2) Equipment : Equipment name
(3) Parts : Spare parts name
(4) SMS : Spare parts type (This title can be changed. Refer to Section 14)
(5) Part Code : Maker's spare parts' code
(6) Drawing No. : Drawing Number
(7) Unit : Unit for spare parts
(8) Working : Spare parts working quantity
(9) Standard : Standard spare parts stock quantity
(10) Spare R.O.B (Last) : Spare parts stock quantity (Last)
(11) Spare R.O.B (Curr.) : Spare parts stock quantity (Curr.)
(12) Total (Consumed) : Total spare parts quantity (Consumed)
(13) Total (Order) : Total spare parts quantity (Order)
(14) Total (Delivered) : Total spare parts quantity (Delivered)
(15) Item Code : Spare parts drawing + page + item number
(16) Cost Code : Cost code for budget control
(17) Price (Unit) : Spare parts unit price
(18) Price (Total) : Spare parts unit price x quantity

3.12 [Master] Screen

3.12.1 Equipments

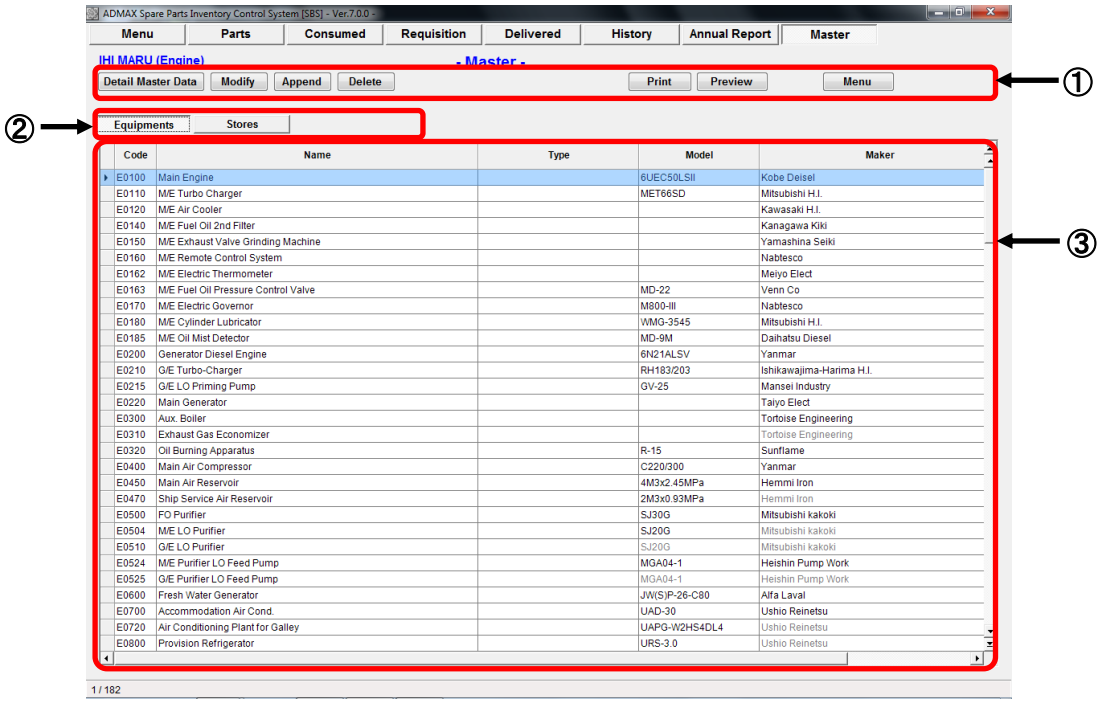


Fig 3.12.1 Equipments

① **Operation button**

[Detail Master Data] : Sec3.13
[Modify] : Sec12.1.1
[Append] : Sec12.1.2
[Delete] : Sec12.1.3
[Print] : Print out Parts List.
[Preview] : Print review.
[Menu] : Sec.3.1

② **View Select**

[Equipment] : Equipment List
[Store] : Store List

③ **Equipment List**

(1) Code : Equipment code
(2) Name : Equipment name
(3) Type : Equipment type
(4) Model : Equipment model
(5) Maker : Equipment's Maker

3.12.2 Stores

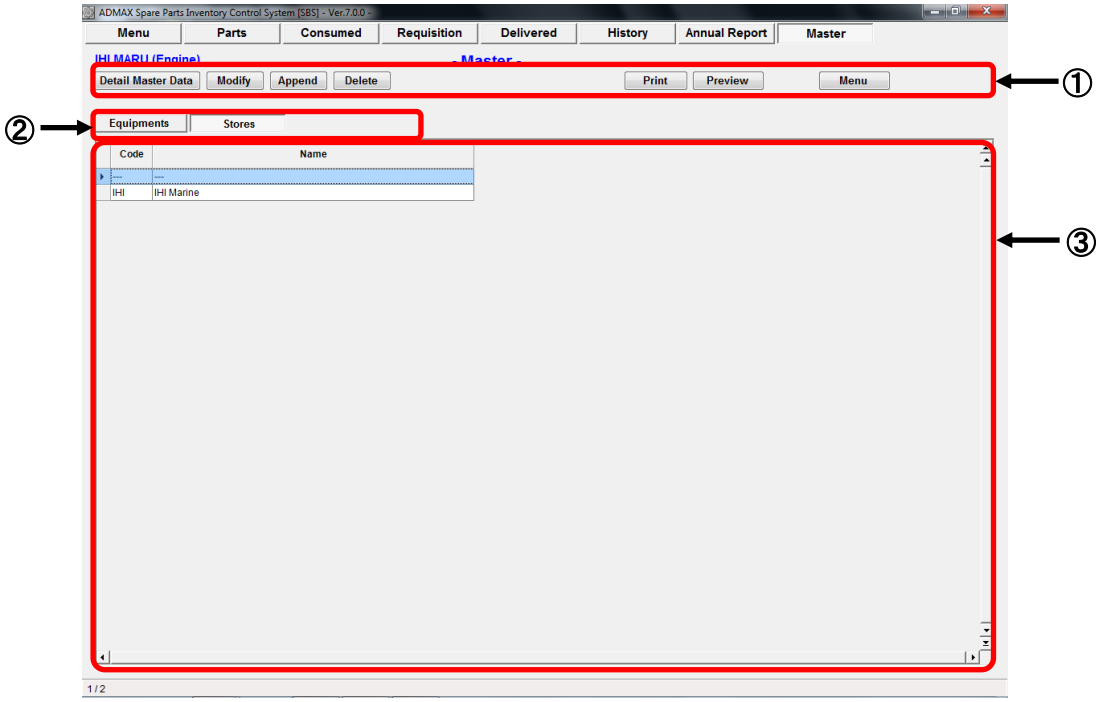


Fig 3.12.2 Stores

① **Operation button**

[Detail Master Data]	: Sec3.13
[Modify]	: Sec12.2.1
[Append]	: Sec12.2.2
[Delete]	: Sec12.2.3
[Print]	: Print out Parts List.
[Preview]	: Print review.
[Menu]	: Sec.3.1

② **View Select**

[Equipment]	: Equipment List
[Store]	: Store List

③ **Store List**

(1) Code	: Store code
(2) Name	: Store name

3.13 [Master Detail] Screen

3.13.1 Equipments

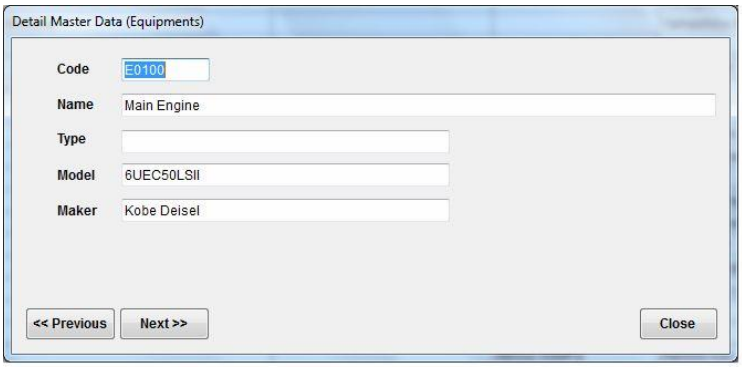


Fig 3.13.1 Detail Master Data (Equipments)

① **Operation button**

[<< Previous] :
[Next >>] :
[Close] :

② **Detail**

(1) Code : Equipment code
(2) Name : Equipment name
(3) Type : Equipment type
(4) Model : Equipment model
(5) Maker : Equipment's Maker

3.13.2 Stores

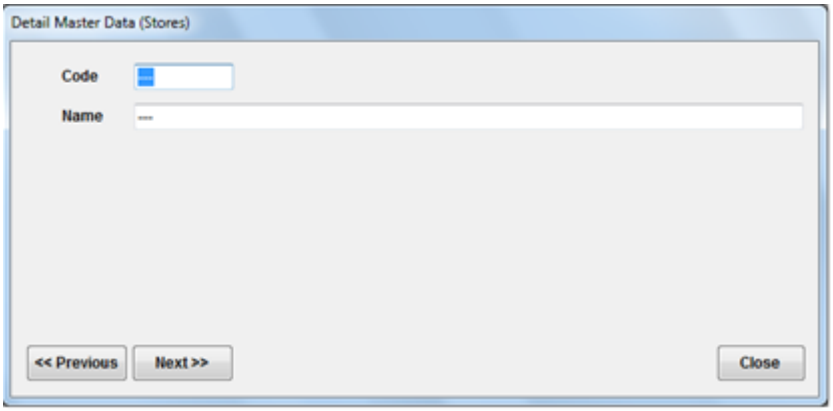


Fig 3.13.2 Detail Master Data (Stores)

① **Operation button**

[<< Previous] :
[Next >>] :
[Close] :

② **Detail**

(1) Code : Store code
(2) Name : Store name

4. Check Critical Spare Parts with Shortage condition

If there was critical spare parts with shortage condition, [*] mark is shown on Menu Screen.

1. On the “Menu Screen” (Fig.4-1), select [*] mark on Ship list.

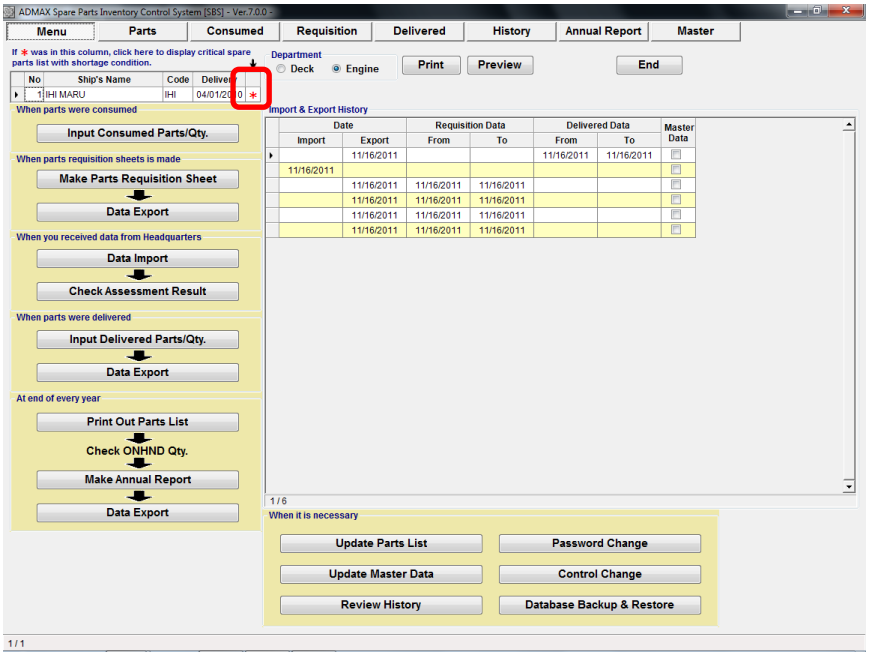


Fig 4.1 Menu

2. Critical Spare Parts list with shortage condition is displayed on “Parts(Shortage) Screen” (Fig.4-2).

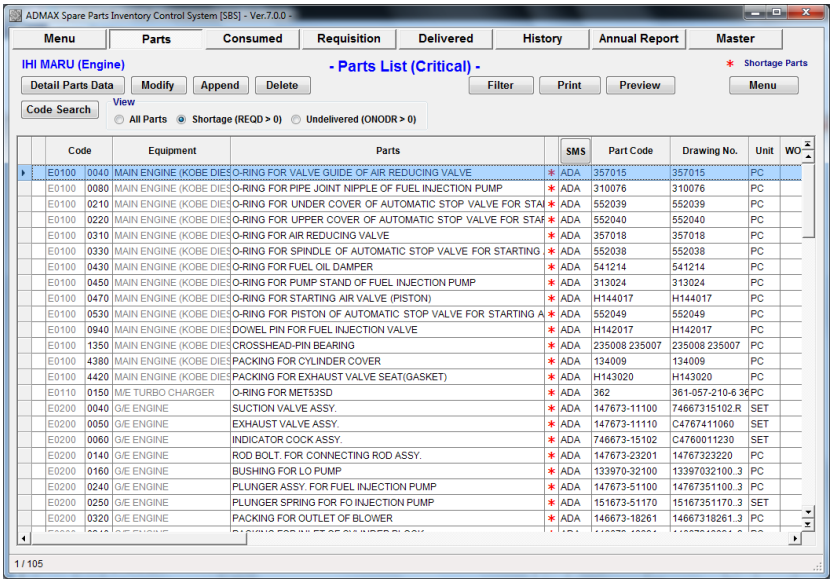


Fig 4.2 Parts (Shortage)

3. Select [Menu] button to return to “Menu Screen”.

5. Input Consumed Parts / Qty

1. On the “Menu Screen”(Fig.5-1), select [Input Consumed Parts / Qty].

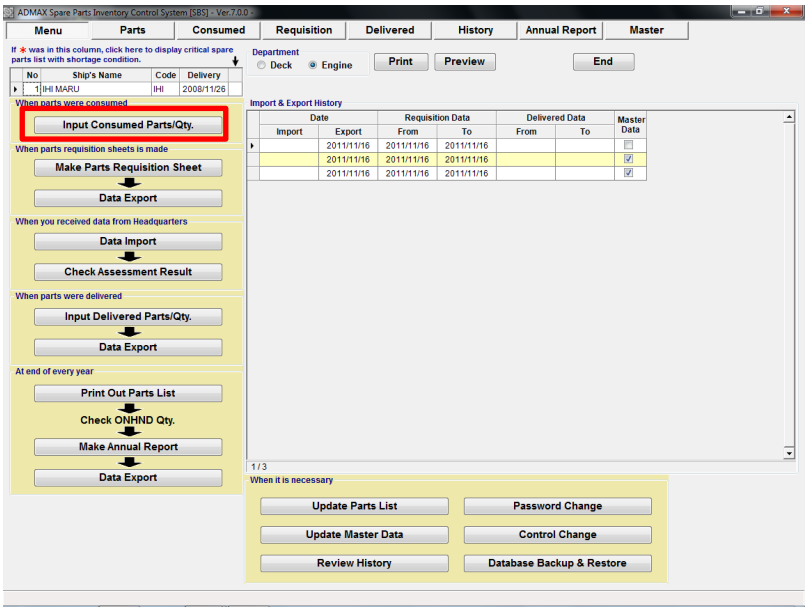


Fig 5.1 Menu

2. “Select Consumed Parts Screen"(Fig.5-2) is displayed. If consumed spare parts data which has not been completed existed, “Input Consumed Qty Screen"(Fig.5-3) is displayed instead of Fig.5-2. (Go to Step 6) Fig 5.2 Select Consumed Parts.

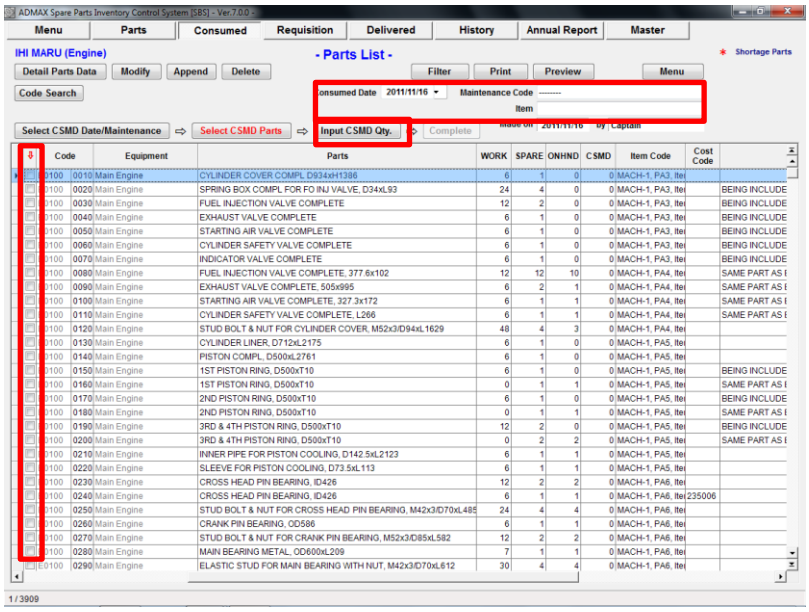


Fig 5.2 Select Consumed Parts

3. Input Consumed Date. Input Maintenance Code and Item if necessary.

4. Select check box of consumed spare parts.
   If you select same item again, selection is cancelled.

5. Select [Input Consumed Qty] button when you finish selecting all consumed spare parts.

   "Code Search" function or "Filter" function can be used to find spare parts.

6. “Input Consumed Qty Screen”(Fig.5-3) is displayed. In this screen, all spare parts selected by step 5 are shown.

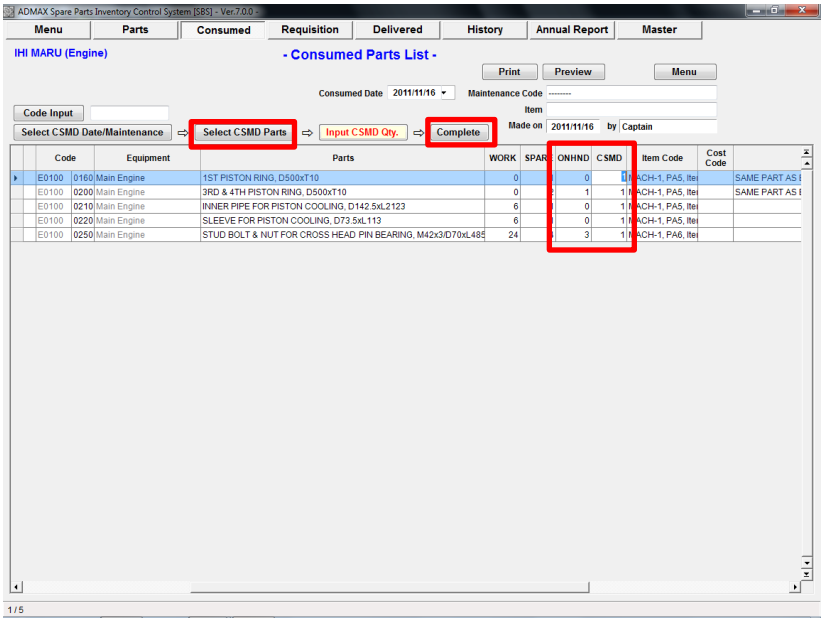


Fig 5.3 Input Consumed Qty.

7. If you wanted to select consumed spare parts again, select [Select Consumed Parts] button to return to “Select Consumed Parts Screen“ and you can select check box by same procedure as step 5.

8. Input consumption quantity for each spare part.
Consumption quantity greater than on hand (Spare R.O.B) quantity can not be input.

On hand (Spare R.O.B) quantity is reduced by inputting consumption quantity (Consumed), and requisition quantity (Required) is calculated at the same time by the following formula. **Required = Standard – (Spare R.O.B + On Order)**

9. Select [Complete] button if you finished inputting all consumption quantity. [Please note that data cannot be corrected afterwards when you select [Complete] button once.Complete]

10. “Completed Consumed Parts Screen"(Fig.5-4) is displayed.

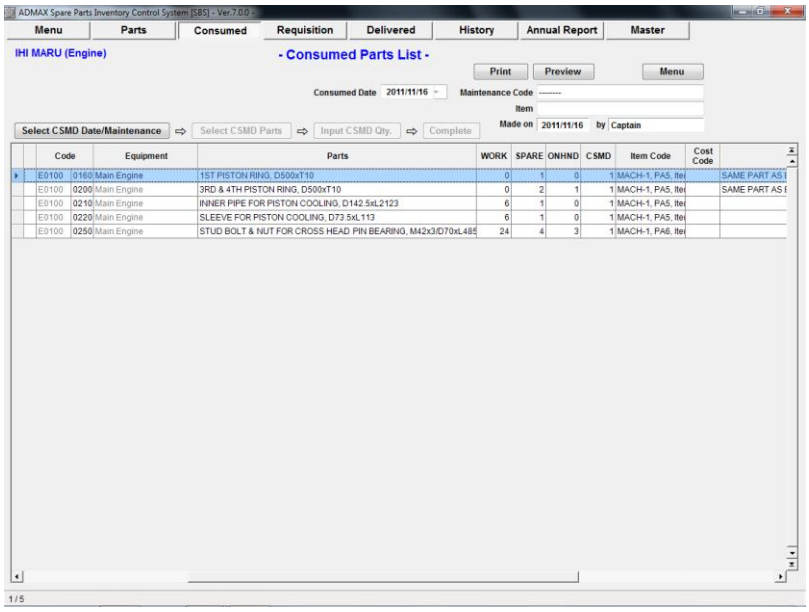


Fig 5.4 Consumed Consumed Parts

11. Select [Menu] button to return to “Menu Screen".

6. Make Parts Requisition

1. On the “Menu Screen”(Fig.6-1), select [Make Parts Requisition Sheet].

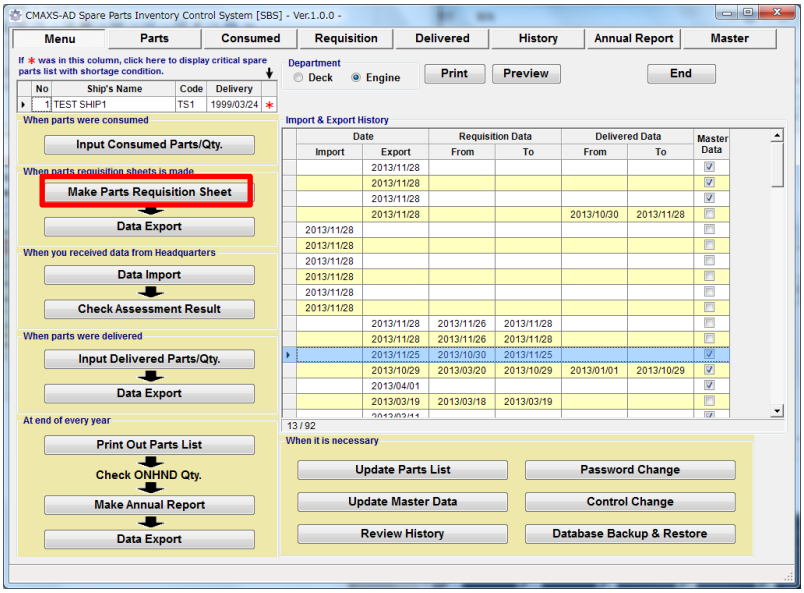


Fig 6.1 Menu

2. “Select Required Parts Screen"(Fig.6-2) is displayed. In this screen, all spare parts of which Required is greater than 0 (Required > 0) are shown.
   Requisition quantity (Required) is calculated by the following formula.
   Required = Standard – (Spare R.O.B + On Order)
   If required spare parts data which has not been completed existed,
   “Input Order Qty Screen"(Fig.6-4) is displayed instead of Fig.6-2. (Go to step 7)

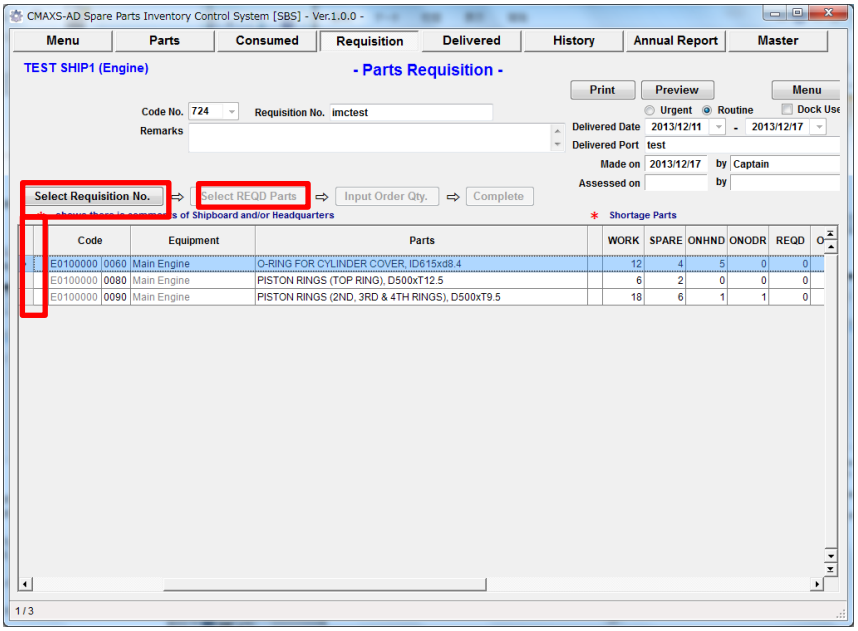


Fig 6.2 Select Required Parts

3. Select check box of required spare parts. You make parts requisition for another equipments group after step 13 in this section. If you select same item again, selection is cancelled.

4. If [All Parts] button was selected, all spare parts registered in database is displayed on “Select Required Parts (All Parts) Screen"(Fig.6-3) and you can select check box by same procedure as step 3.

5. "Code Search" function or "Filter" function can be used to find spare parts. (Refer to Section 17.1 & 17.2)

6. Select [Input Order Qty] button when you finish selecting all required spare parts.

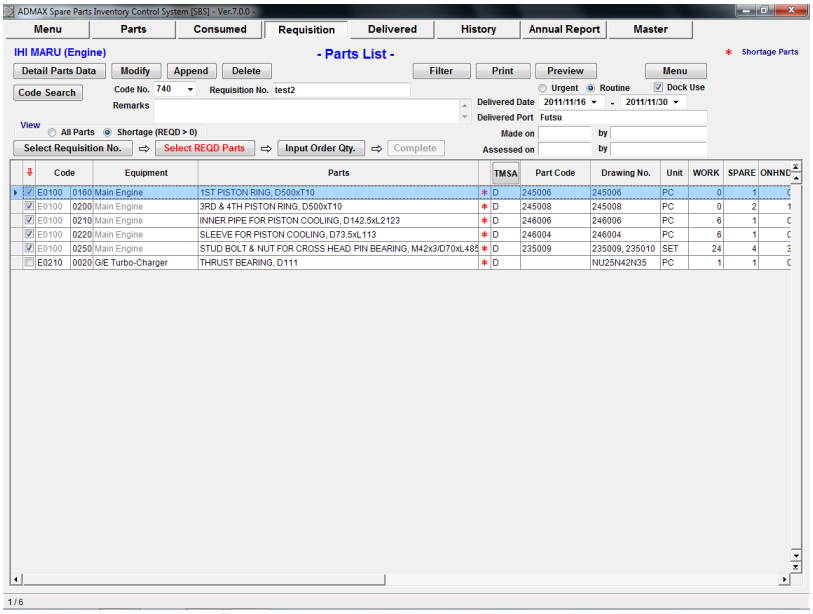


Fig 6.3 Select Required Parts (All Parts)

7. “Input Order Qty Screen"(Fig.6-4) is displayed. In this screen, all spare parts selected by step 3 & 4 are shown.

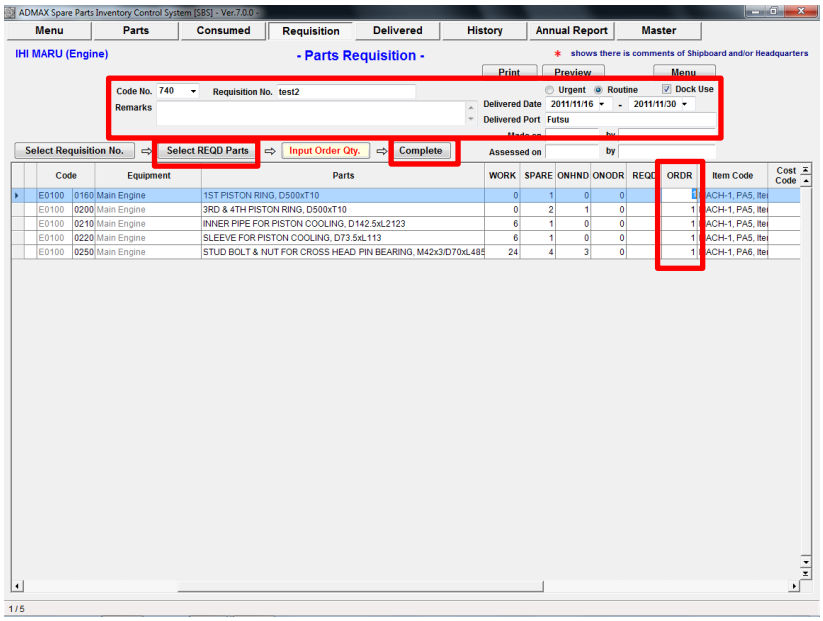


Fig 6.4 Input Order Qty.

8. If you wanted to select required spare parts again, select [Select Required Parts] button to return to “Select Required Parts Screen“ and you can select check box by same procedure as step 3 & 4.

9. Input Code No., URGENT, ROUTINE, DOCK USE, Requisition No., Delivered Date, Delivered Port and Remarks.

   The Requisition No. has to be different one from the number already input.

10. Input order quantity for each spare parts.

11. Select [Complete] button if you finished inputting all consumption quantity.
    The persons who has "Administrator" or "Approve" authority are only permitted to select [Complete] button.
    Please note that data cannot be corrected afterwards when you select [Complete] button once.

12. “Completed Parts Requisition Screen"(Fig.6-5) is displayed.

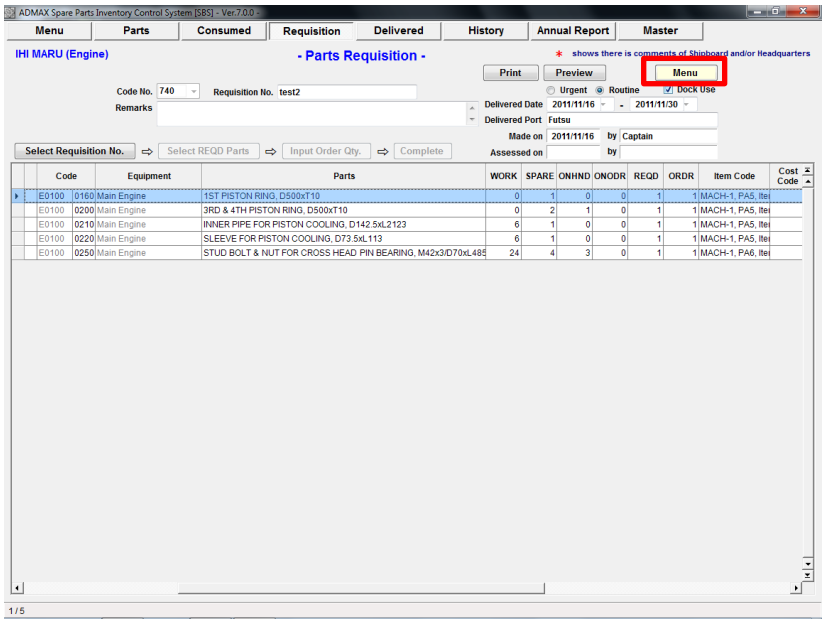


Fig 6.5 Completed Parts Requisition

13. Select [Menu] button to return to “Menu Screen".

14. Repeat step 1-13 several times to make parts requisition of another equipment group.

15. On the “Menu Screen”(Fig.6-6), select [Data Export].
"Export Period Dialog”(Fig.6-7) is displayed.

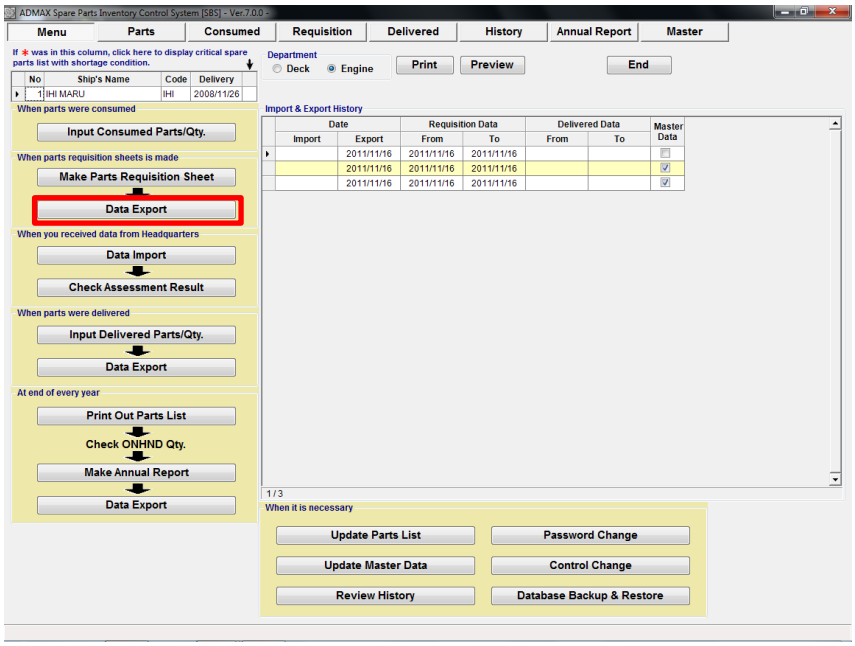


Fig 6.6 Menu

16. Input export period or select from calendar by [▼] button to contain all the days when new Parts Requisition was made.

17. If spare parts and/or Master data were modified during export period, select “Master Data” button.

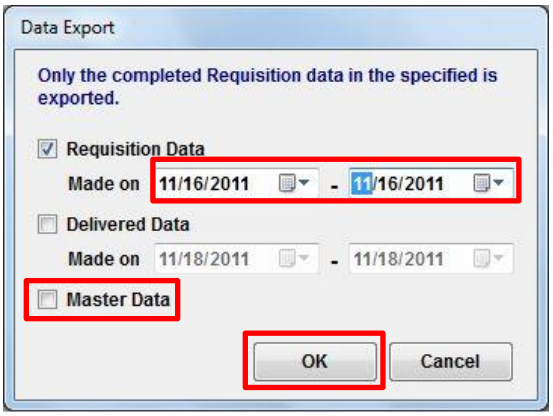


Fig 6.7 Data Export

18. Select [OK] button. "Save File Screen"(Fig.6-8) is displayed.

19. Select saving folder, compressing format(.zip) for export file. File name is given as below.

SPICS_SBS_aaa_Deck (Engine)_yymmdd-hhmm.lzh (.zip)

aaa: Ship code

yymmdd-hhmm: Export date & time

Modify file name if necessary. Then, select [Save] button.

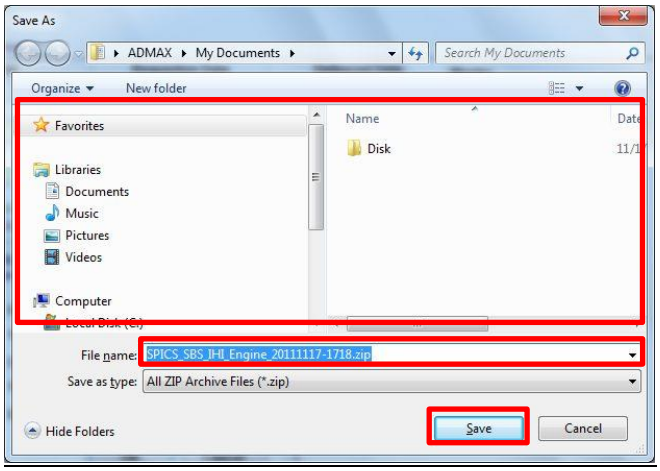


Fig 6.8 Save As

20. Select [OK] at completion message dialog.

21. Export history is recorded on "Import & Export History".

22. Send export file to Headquarters as attached file of E-mail.

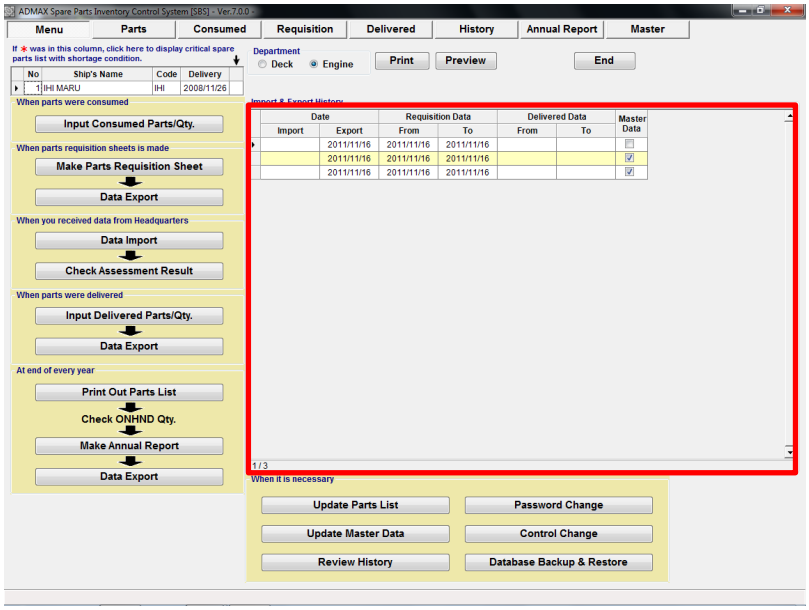


Fig 6.2.4 Menu

7. Check Assessment Result

1. On the “Menu Screen”(Fig.7-1), select [Data Import].
   "Open File Dialog"(Fig.7-2) is displayed

2. Select file for import. Then, select [Open] button.
   File name is decided by your company's standard.
   Standard file name of our system is shown for your reference.
   SPICS_HQS_aaa_Deck (Engine)_yymmdd-hhmm.lzh(.zip)
   aaa: Ship code
   yymmdd-hhmm: Export period & time.

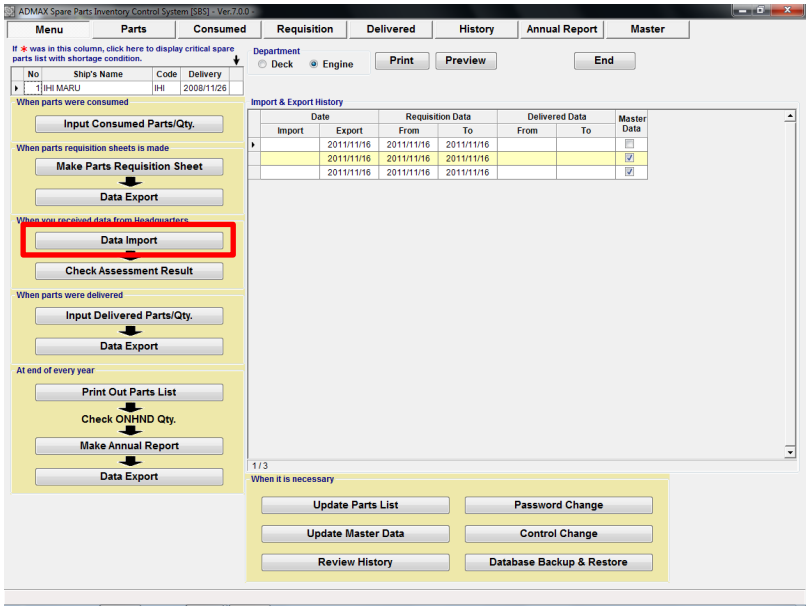


Fig 7.1 Menu

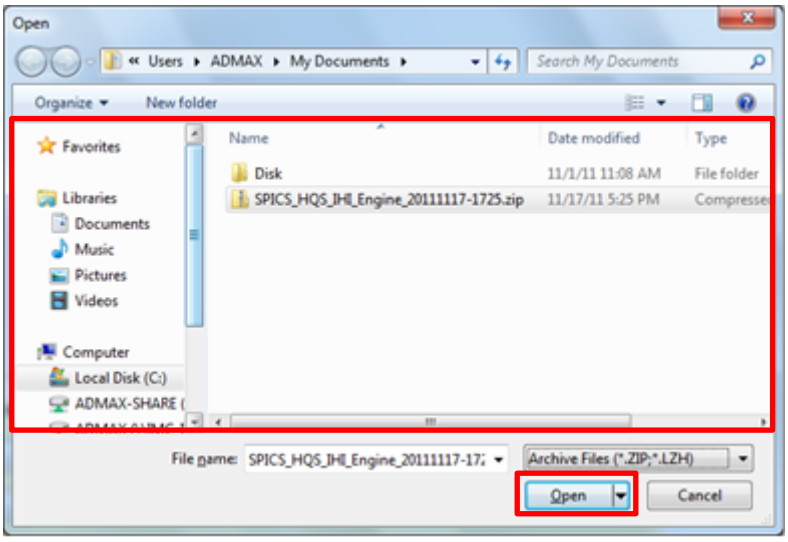


Fig 7.2 Open

3. Select [OK] at completion message dialog.

4. Import history is recorded on "Import & Export History".

5. On the “Menu Screen”(Fig.7-3), select [Check Assessment Result].

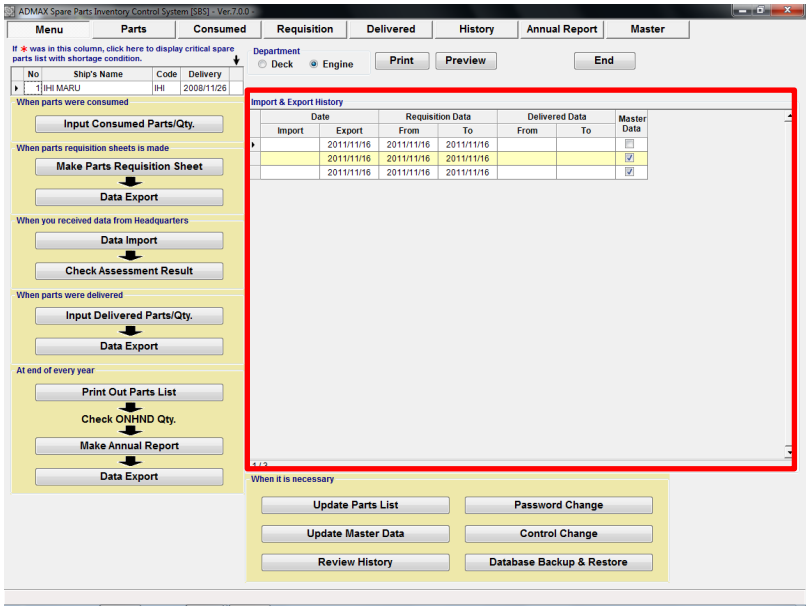


Fig 7.3 Menu

6. “Parts Requisition (Assessed) Screen"(Fig.7-4) is displayed. In this screen, assessed result by Headquarters is shown.

7. Select [Select Requisition No.] button to check another assessment result.

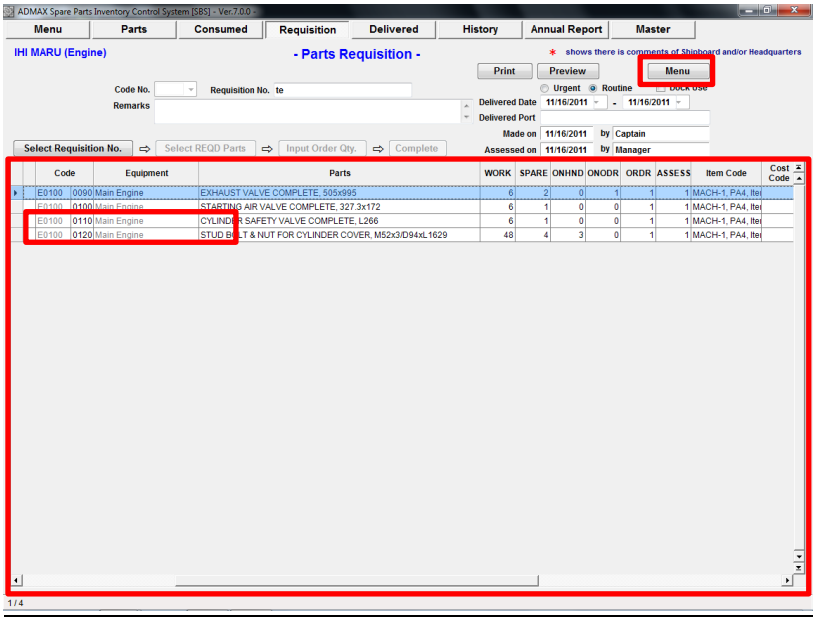


Fig 7.4 Parts Requisition (Assessed)

8. “Parts Requisition Dialog"(Fig.7-5) is displayed.
9. Select Parts Requisition which assess sign is true.
10. Select [OK] button.
11. “Parts Requisition (Assessed) Screen"(Fig.7-4) is displayed. In this screen, selected assessed result by Headquarters is shown.
12. Select [Menu] button to return to “Menu Screen".

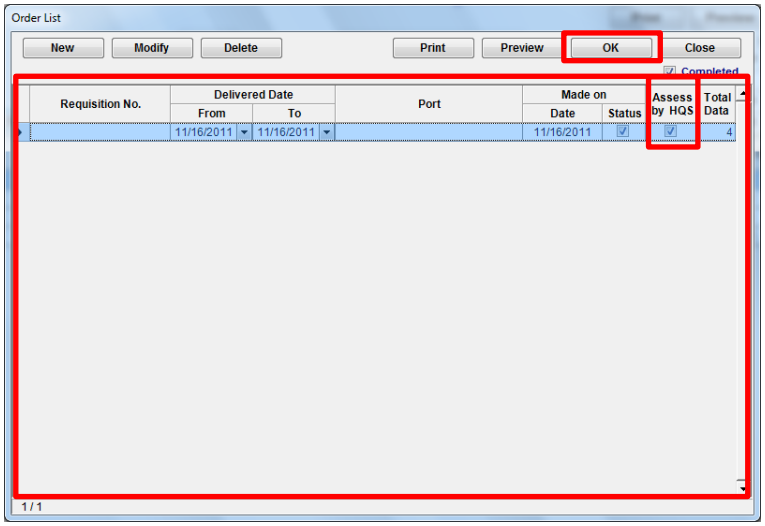


Fig 7.5 Parts Requisition Dialog

8. Input Delivered Parts / Qty

1. On the “Menu Screen”(Fig.8-1), select [Input Delivered Parts / Qty].

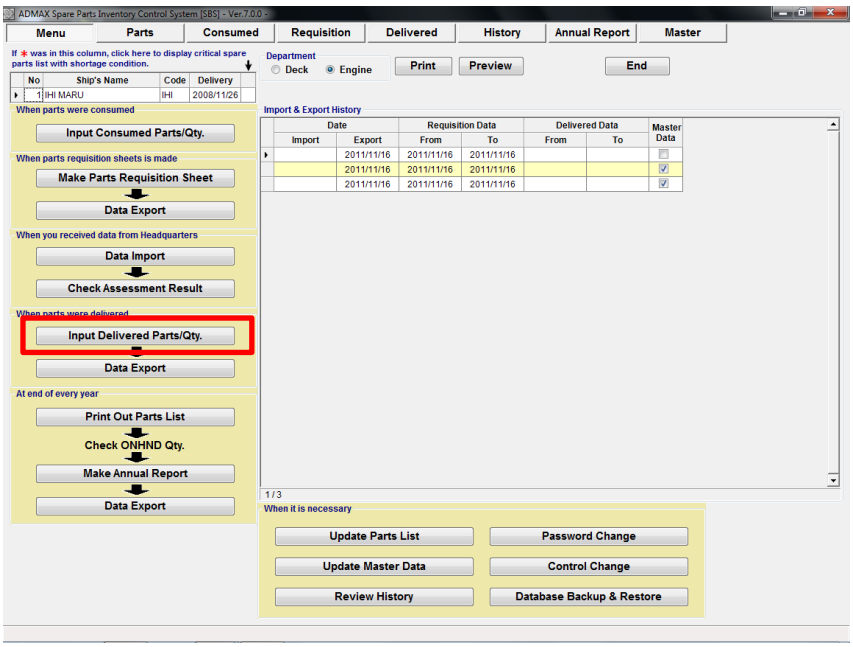


Fig 8.1 Menu

2. “Completed Parts Requisition Screen"(Fig.8-2) is displayed.

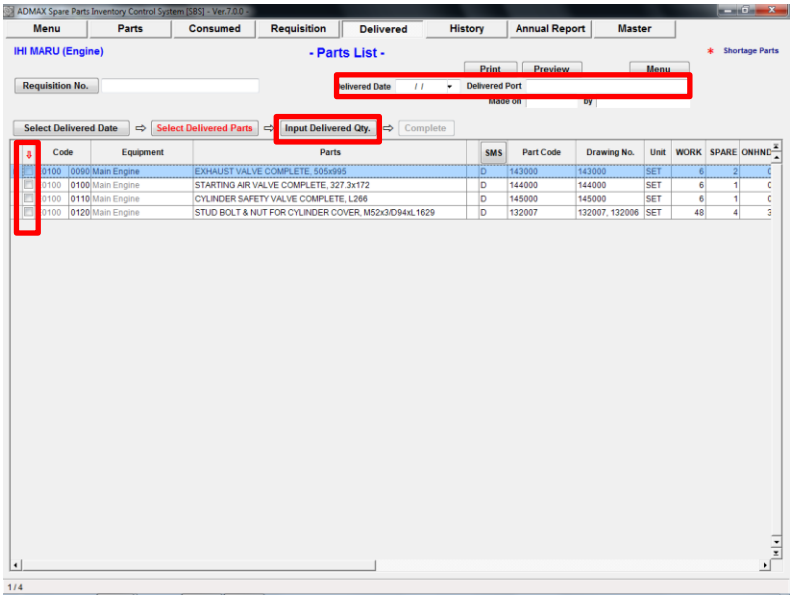


Fig8.2 Completed Parts Requisition

3. Select Requisition No. button to find Parts Requisition data which is corresponding to current delivered spare parts.

4. “Order List Dialog"(Fig.8-3) is displayed.

5. Select Parts Requisition and [OK] button.

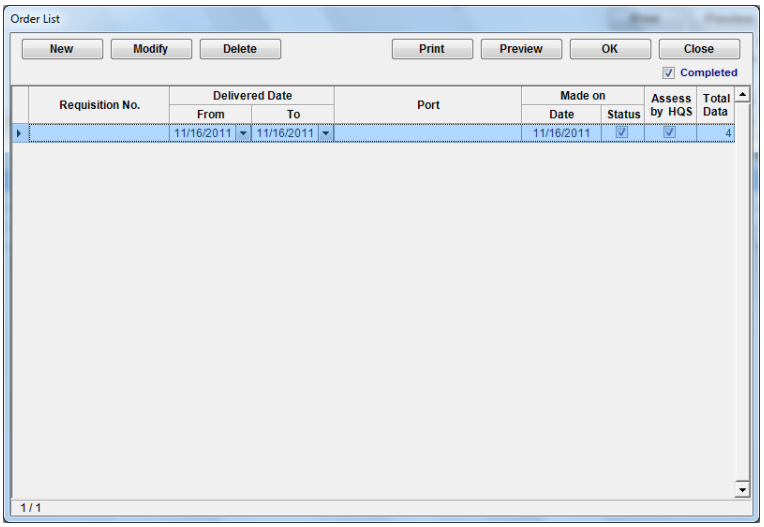


Fig8.3 Order List Dialog

6. Completed Parts Requisition Screen"(Fig.8-4) is displayed.
   If delivered spare parts data which has not been completed existed,
   “Input Delivered Qty Screen"(Fig.8-5) is displayed instead of Fig.8-4.
   (Go to step 10)

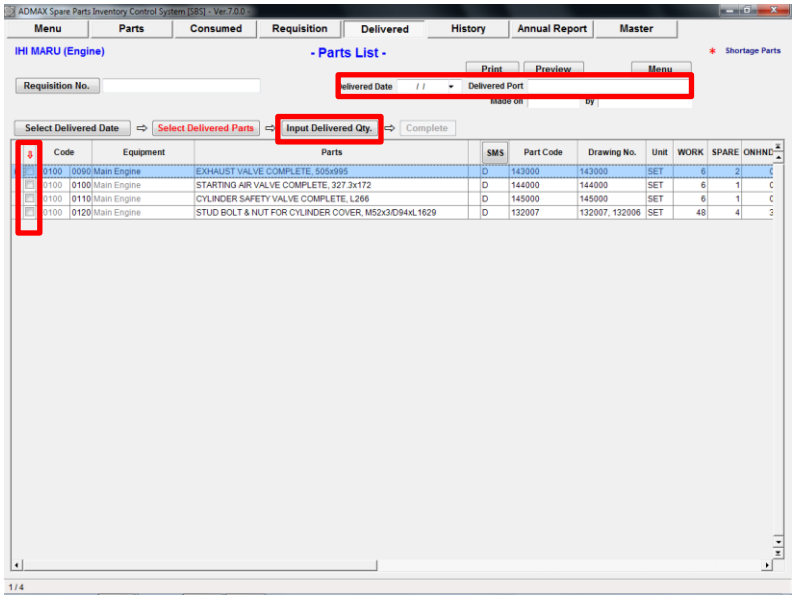


Fig8.4 Completed Parts Requisition

7. Input Delivered Date and Port.
8. Select check box of delivered spare parts.
   If you select same item again, selection is cancelled.
9. Select [Input Delivered Qty] button when you finish selecting all delivered spare parts.

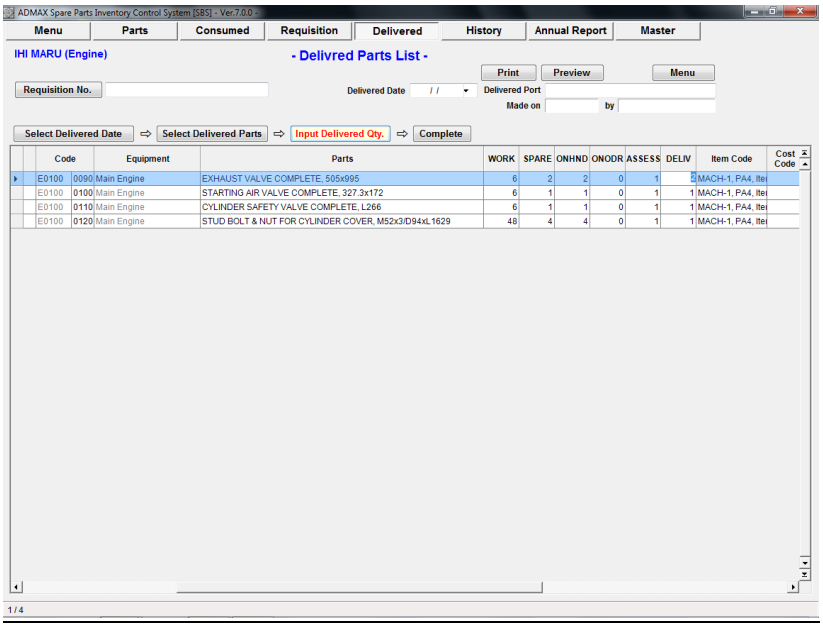


Fig 8.5 Input Delivered Qty.

10. “Input Delivered Qty Screen"(Fig.8-5) is displayed. In this screen, all spare parts selected by step 8 are shown.

11. . If you wanted to select delivered spare parts again, select [Select Delivered Parts] button to return to “Select Delivered Parts Screen“ and you can select check box by same procedure as step 8.

12. Input delivery quantity for each spare parts.
    Delivery quantity greater than on order (On Order) quantity can not be input.
    On hand (Spare R.O.B) quantity is added and on order quantity (On Order) is reduced by inputting delivery quantity.
    Requisition quantity (Required) are calculated at the same time by the following formula.

    Required = Standard – (Spare R.O.B + On Order)

13. Select [Complete] button if you finished inputting all delivery quantity.
    The persons who has "Administrator" or "Approve" authority are only permitted to select [Complete] button.
    Please note that data cannot be corrected afterwards when you select [Complete] button once.

14. “Completed Delivered Parts Screen"(Fig.8-6) is displayed.

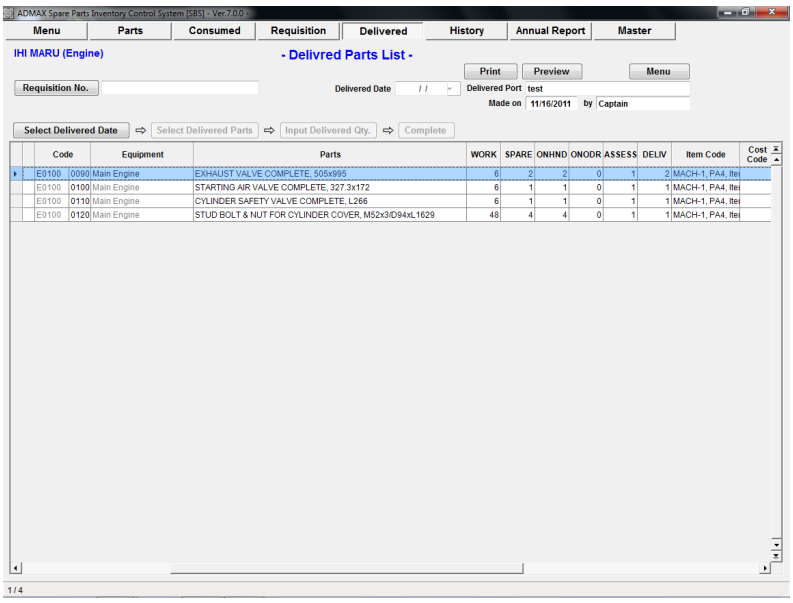


Fig 8.6 Completed Delivered Parts

15. Select [Menu] button to return to “Menu Screen".
16. On the “Menu Screen”(Fig.8-7), select [Data Export].
    "Data Export Dialog”(Fig.8-8) is displayed.

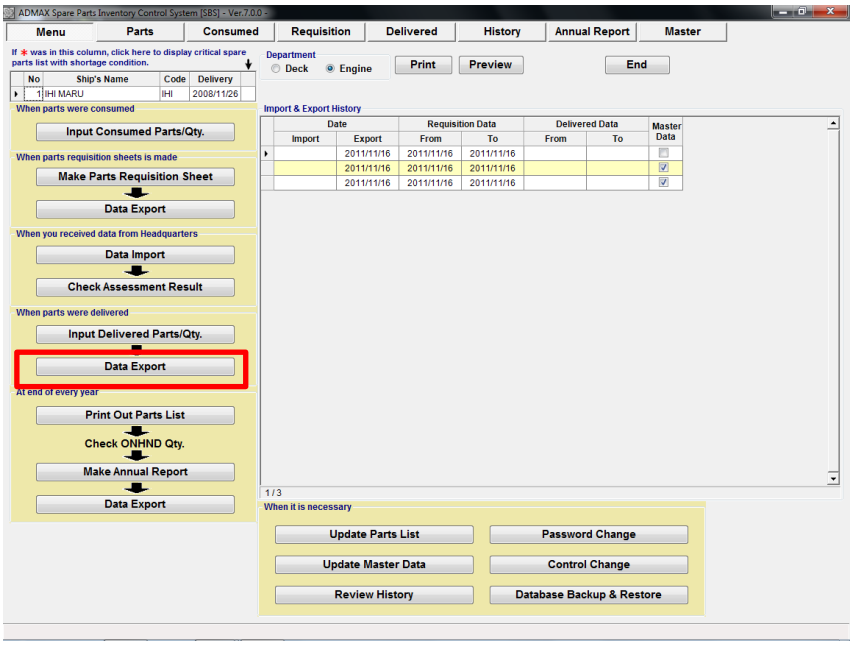


Fig 8.7 Menu

17. Input export period or select from calendar by [▼] button to contain all the days when new Parts Requisition was made.

Fig 8.8 Data Export

18. If spare parts and/or Master data were modified during export period, select “Master Data” button.

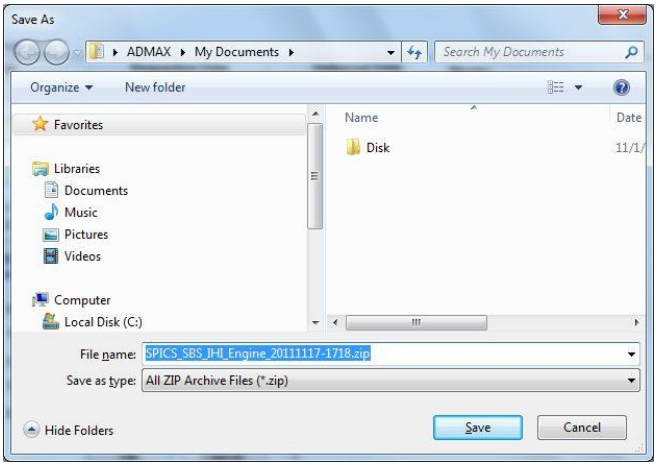


Fig 8.9 Save As

19. Select [OK] button. "Save File Screen"(Fig.8-9) is displayed.

20. Select saving folder, compressing format (.zip) for export file. File name is given as below.

SPICS_SBS_aaa_yymmdd-hhmm.lzh (.zip)

aaa: Ship code

yymmdd-hhmm: Export date & time

Modify file name if necessary. Then, select [Save] button.

21. Select [OK] at completion message dialog.
22. Export history is recorded on "Import & Export History".
23. Send export file to Headquarters as attached file of E-mail.

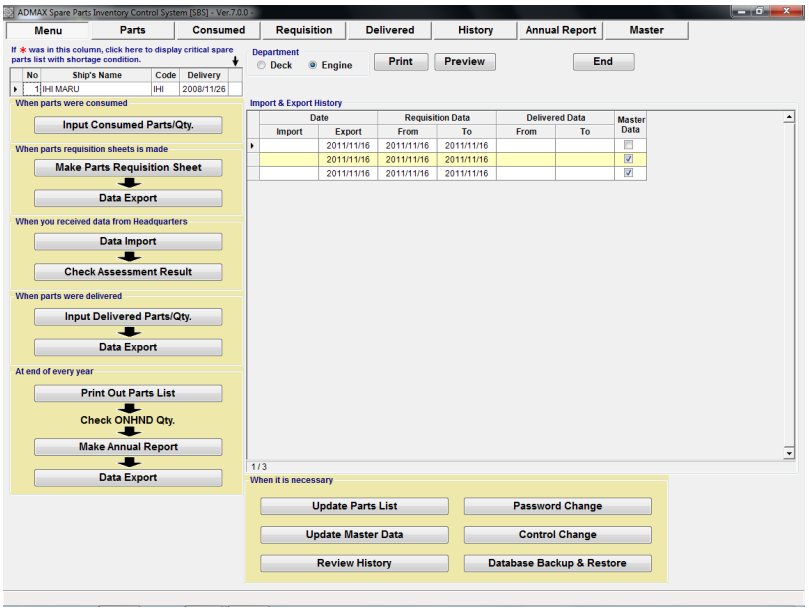


Fig 8.10 Menu

9. Review Consumed / Requisition / Delivered Parts History

1. On the “Menu Screen”(Fig.9-1), select [Review History].

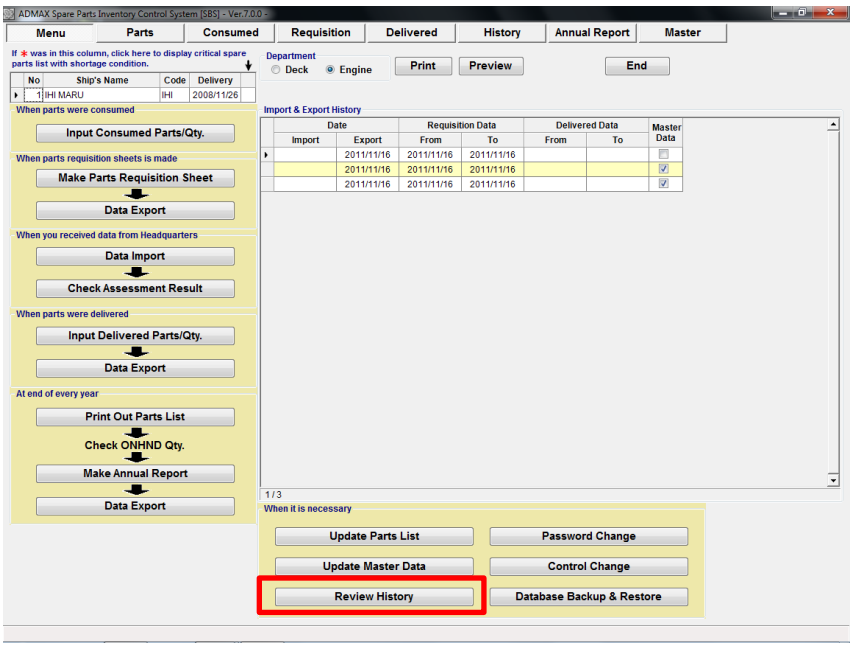


Fig 9.1 Menu

2. “History (Consumed Parts) Screen "(Fig.9-2) is displayed.
   In this screen, all spare parts consumed in the last 12 months is displayed.

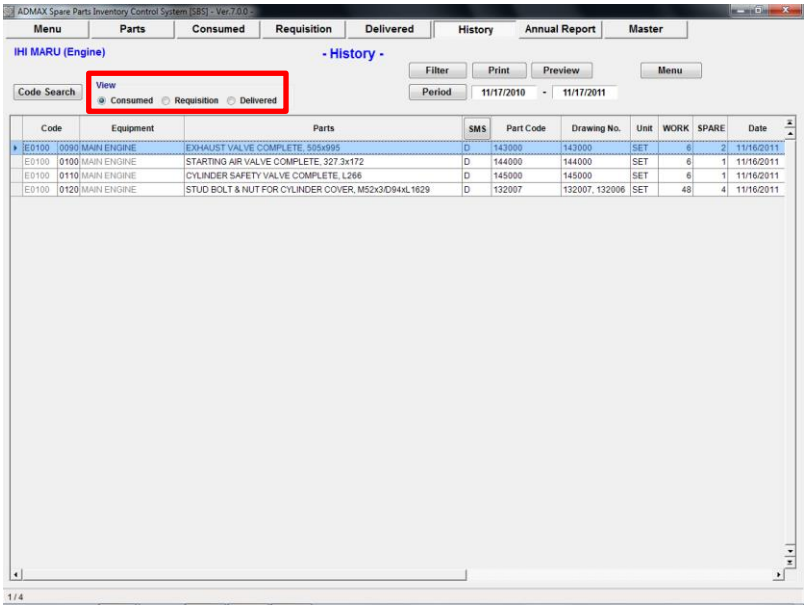


Fig 9.2 History (Consumed Parts)

3. Select [Period] button and “Period Setting Dialog”(Fig.9-3) is displayed.
4. Input period or select from calendar by [▼] button to change period.
5. Select [OK] button.
6. All spare parts consumed in changed period is displayed again.
7. "Code Search" function or "Filter" function can be used to find spare parts.
   (Refer to Section 17.1 & 17.2)
8. Select [Requisition] button.

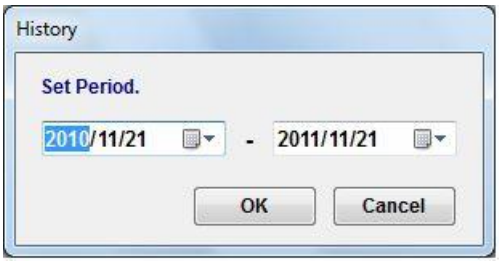


Fig 9.3 Period Setting Dialog

9. “History (Parts Requisition) Screen"(Fig.9-4) is displayed.
   In this screen, all spare parts ordered in the specified period is displayed.
10. Select [Period] button and “Period Setting Dialog”(Fig.9-5) is displayed.
11. Input period or select from calendar by [▼] button to change period.
12. Select [OK] button.
13. All spare parts ordered in changed period is displayed again.
14. "Code Search" function or "Filter" function can be used to find spare parts.
    (Refer to Section 17.1 & 17.2)
15. Select [Delivered] button.

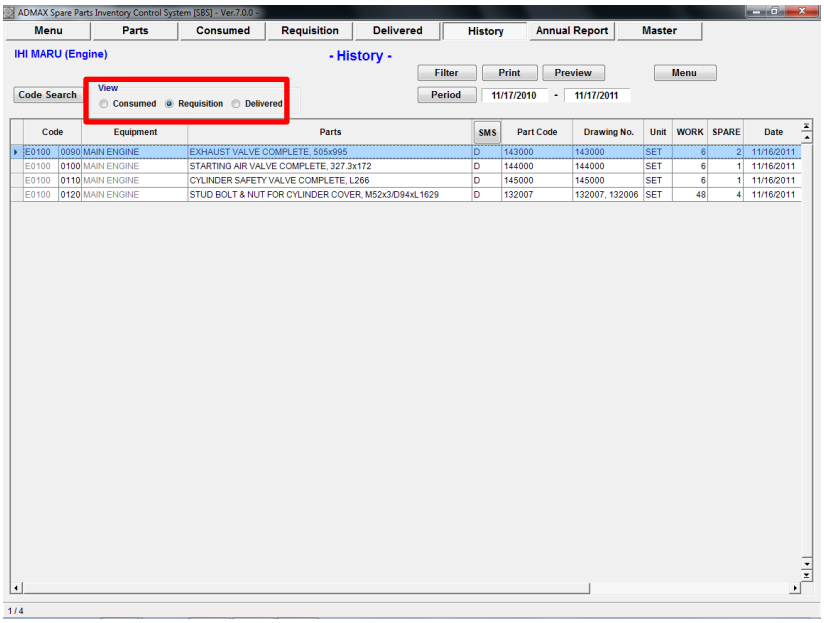


Fig 9.4 History (Parts Requisition)

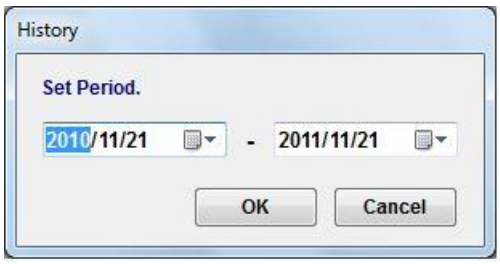


Fig 9.5 Period Setting Dialog

16. “History (Delivered Parts) Screen"(Fig.9-6) is displayed.
    In this screen, all spare parts delivered in the specified period is displayed.
17. Select [Period] button and “Period Setting Dialog”(Fig.9-7) is displayed.
18. Input period or select from calendar by [▼] button to change period.
19. Select [OK] button.
20. All spare parts delivered in changed period is displayed again.
21. "Code Search" function or "Filter" function can be used to find spare parts.
    (Refer to Section 17.1 & 17.2)
22. Select [Menu] button to return to “Menu Screen".

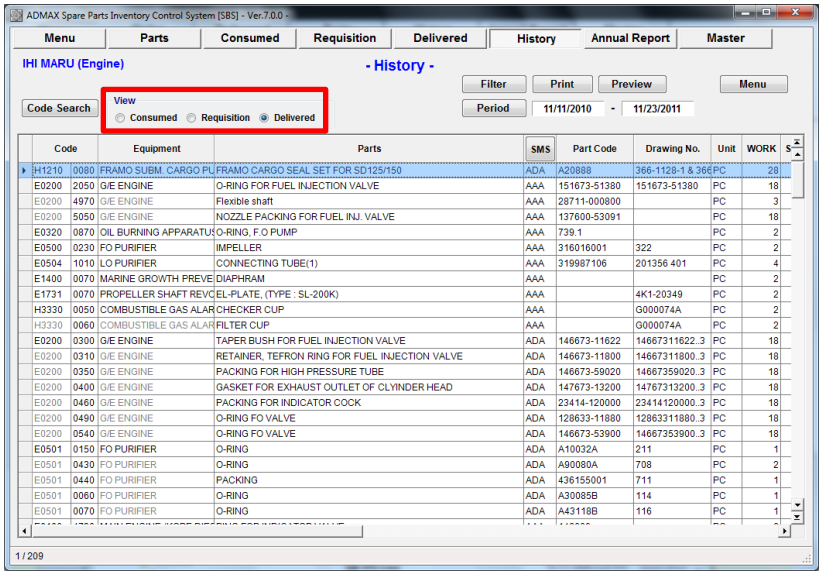


Fig 9.6 History (Delivered Parts)

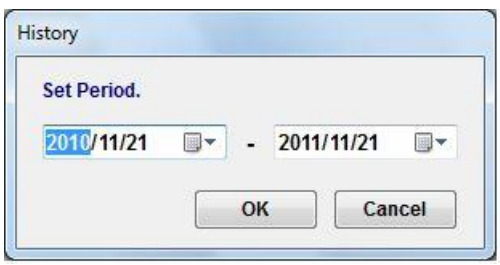


Fig 9.7 Period Setting Dialog

10. Make Annual Report

1. On the "Menu Screen" (Fig. 10-1), select [Print out Parts List].

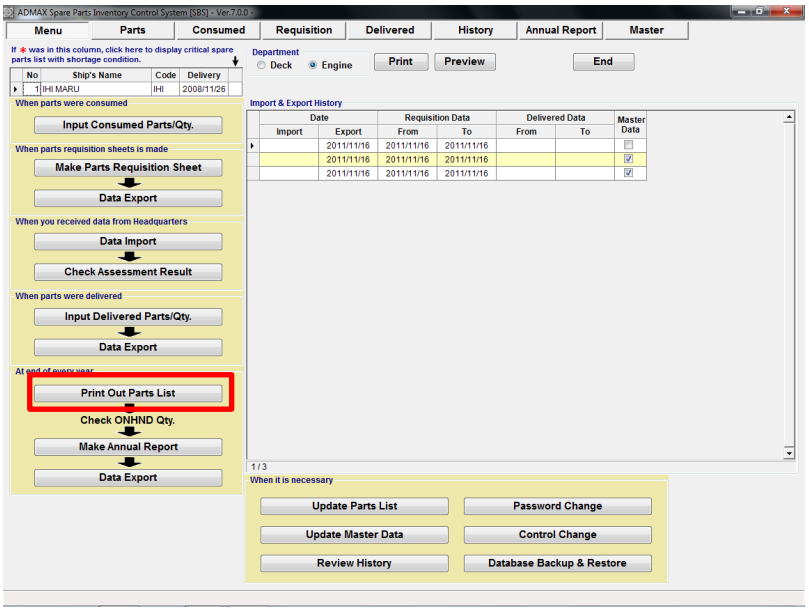


Fig 10.1 Menu

2. "Parts List Screen"(Fig. 10-2) is displayed. In this screen, all spare parts registered in master database are shown.

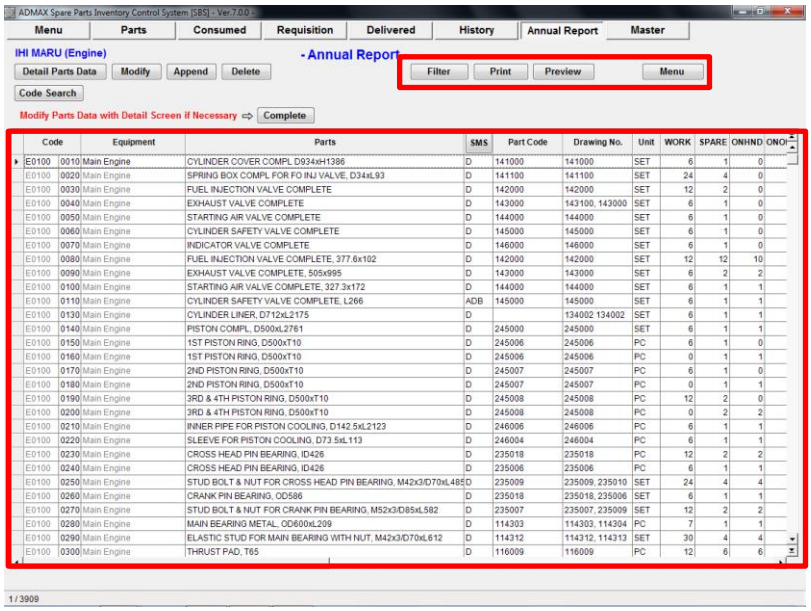


Fig 10.2 Parts List

3. Extract spare parts by "Filter" function to each equipment or each store etc. to check stock condition. (Refer to Section 17.2)
4. Select [Print] button to print out extracted spare parts list.
5. Select [Menu] button to return to "Menu Screen".
6. Execute stock taking and write down result to this spare parts list.
7. On the "Menu Screen"(Fig.10-1), select [Make Annual Report].
8. "Annual Report Screen"(Fig.10-3) is displayed.

9. Select spare parts whose on hand Qty and/or store location is different from the current database.

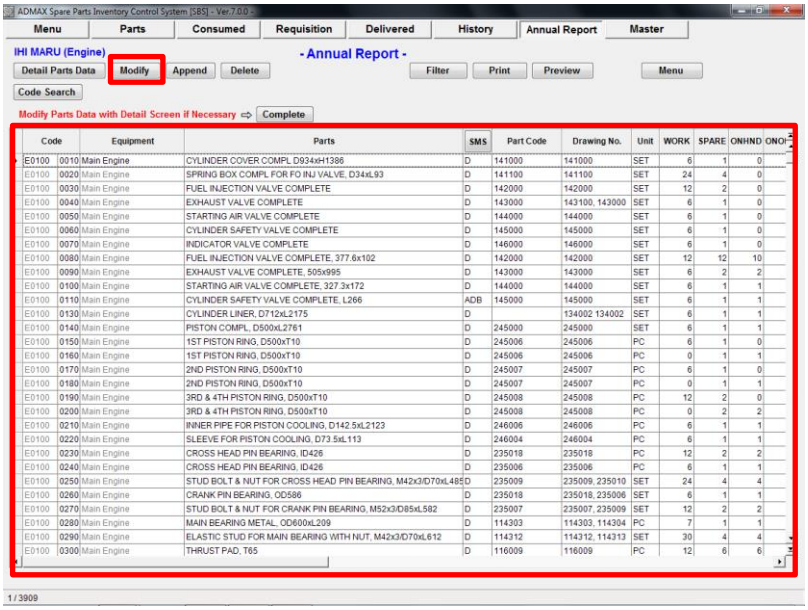


Fig 10.3 Annual Report

10. Select [Modify] button and “Parts Detail Dialog (Edit Mode)”(Fig.10-4) is displayed.
11. Modify on hand Qty and/or store location.
12. Select [Save] button.
13. Select [Close] button to return to “Parts List Screen".
14. Select a next check button of spare parts to be modified and do step 10 ～13.
15. When you finish modification, select [Complete].

    The person who has "Administrator" or "Approve" authority are only permitted to select [Complete] button.

    Please note that data cannot be corrected afterwards when you select [Complete] button once.

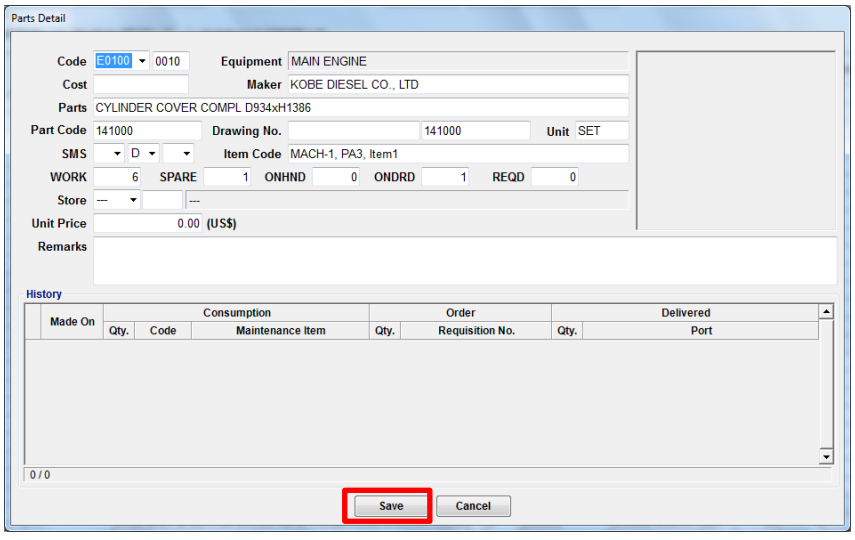


Fig 10.4 Parts Detail Dialog (Edit Mode)

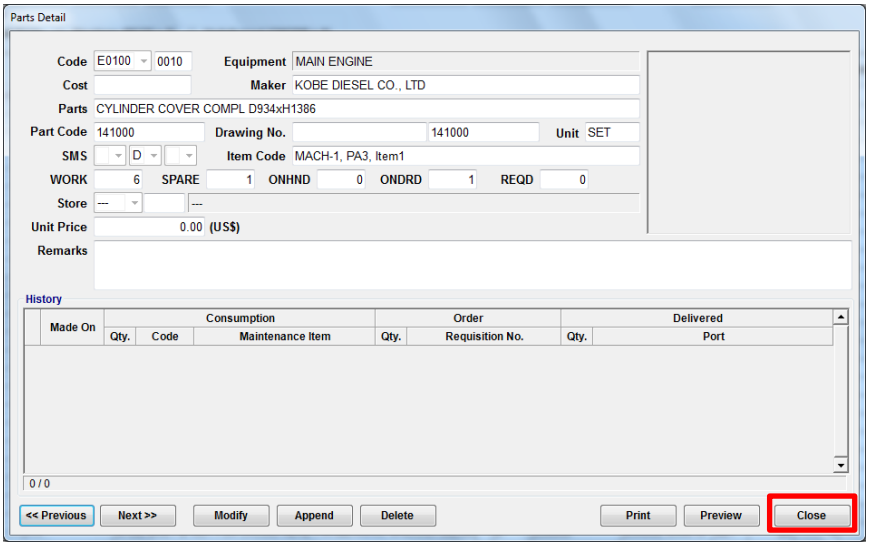


Fig 10.5 Parts Detail Dialog

16. “Completed Annual Report Screen”(Fig.10-6) is displayed.
17. Select [Menu] button to return to “Menu Screen".
18. On the “Menu Screen”(Fig.10-7), select [Data Export].
    "Export Period Dialog”(Fig.10-8) is displayed.
19. Confirm Master Data check box is selected and select [OK] button.

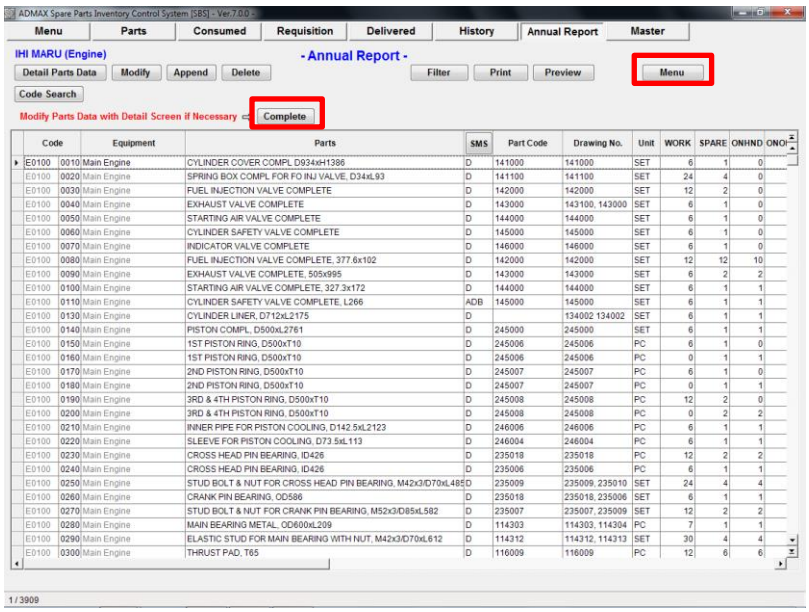


Fig 10.6 Completed Annual Report

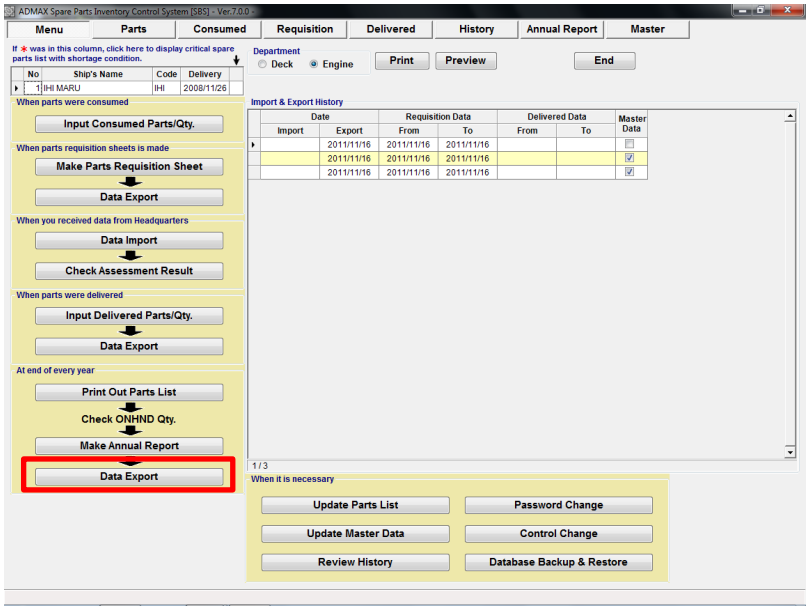


Fig 10.7 Menu

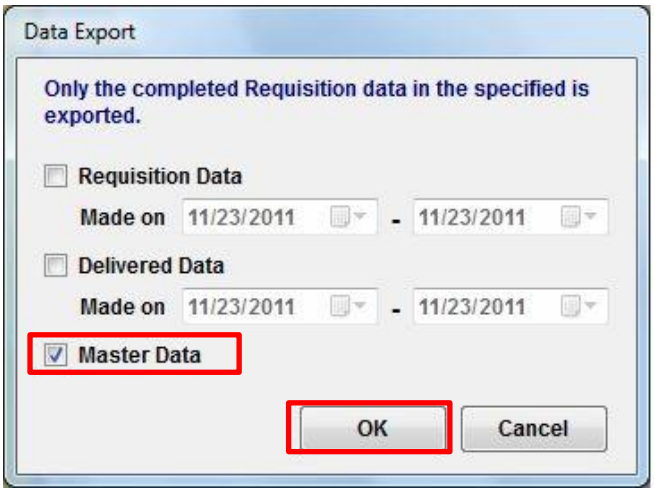


Fig 10.8 Export Dialog

20. "Save As Screen"(Fig.10-9) is displayed.

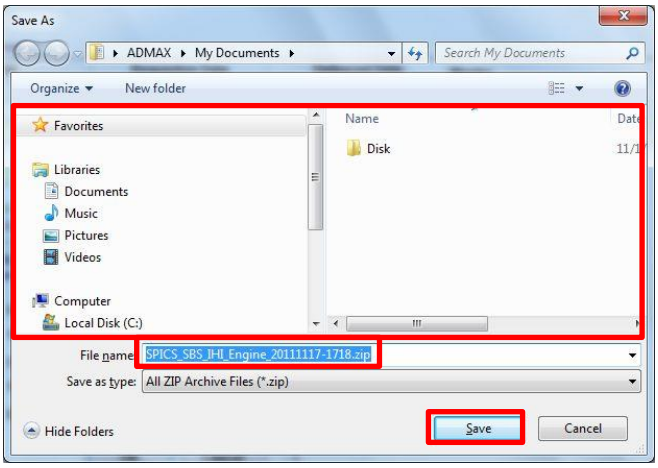


Fig 10.9 Save As

21. Select saving folder, compressing format(.zip) for export file. File name is given as below.

    SPICS_SBS_aaa_yymmdd-hhmm.lzh (.zip)

    aaa: Ship code

    yymmdd-hhmm: Export date & time

    Modify file name if necessary. Then, select [Save] button.

22. Select [OK] at completion message dialog.
23. Export history is recorded on "Import & Export History".
24. Send export file to Headquarters as attached file of E-mail.

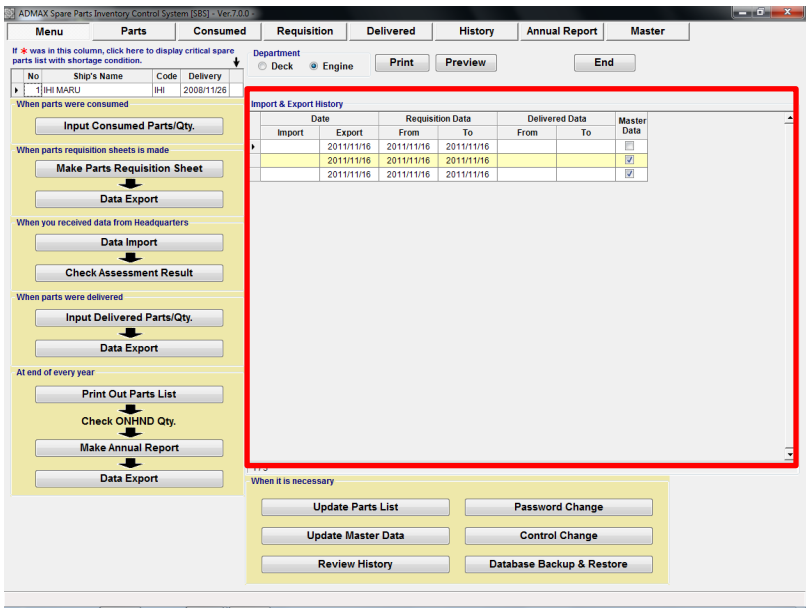


Fig 10.10 Menu

11. Update Spare Parts Data

1. On the “Menu Screen”(Fig.11-1), select [Update Parts List].

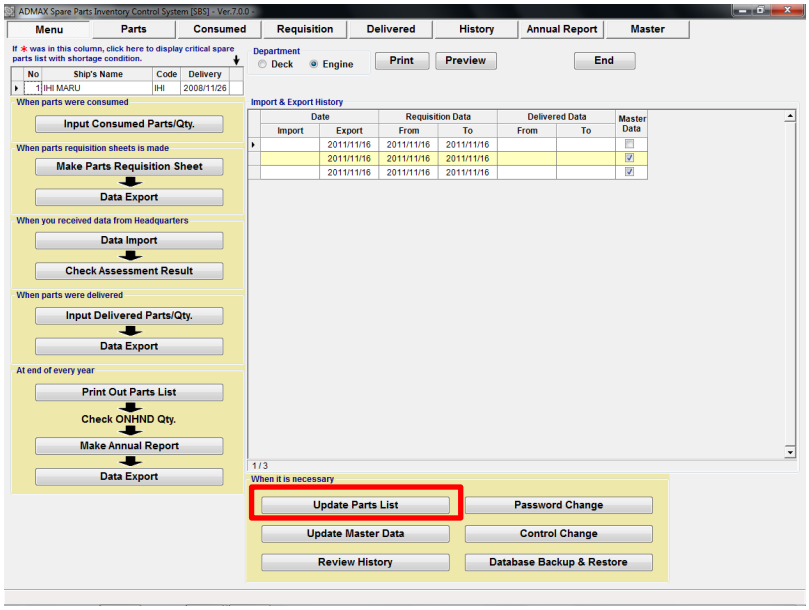


Fig 11.1 Menu

2. “Parts List Screen"(Fig.11-2) is displayed. In this screen, all spare parts registered in master database are shown.
3. Use “Code Search" function or “Filter “function to find spare parts to be modified. (Refer to Section 17.1 & 17.2)
4. Select spare parts to be modified.
5. Select [Modify] button and “Parts Detail Dialog (Edit Mode)”(Fig.11-3) is displayed.

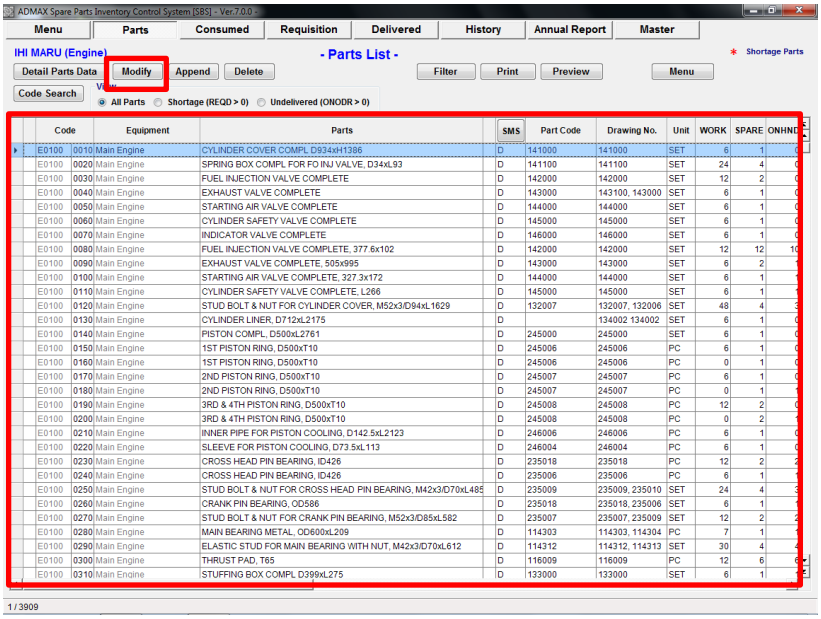


Fig 11.2 Parts List

6. Modify data on “Parts Detail Dialog (Edit Mode)”.
   Please note that CODE cannot be corrected.
7. Select [Save] button.
8. Select [Close] button to return to “Parts List Screen".
9. Select a next check button of spare parts to be modified and do step 3 ～8.
   Revision flag (M) is put on subject spare parts.
   This flag will be deleted after next Data Export.

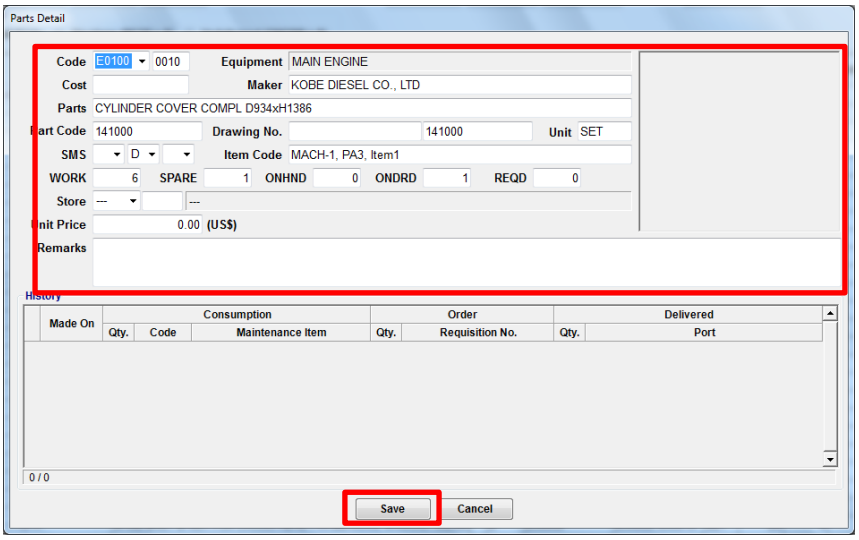


Fig 11.3 Parts Detail Dialog (Edit Mode)

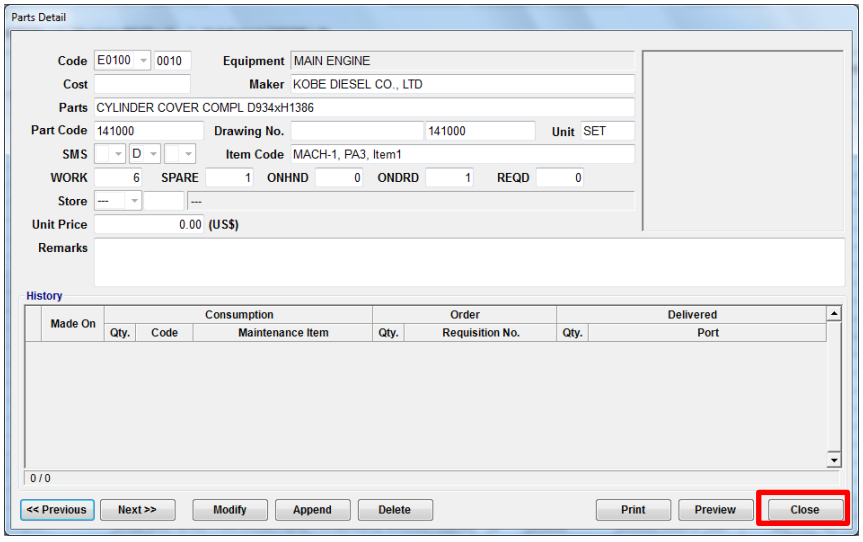


Fig 11.1.3 Parts Detail Dialog

10. If you want to append new spare parts data, select [Append] button on "Parts List Screen"(Fig.11-5).
    "Parts Detail Dialog (Append Mode) "(Fig.11-6) is displayed.

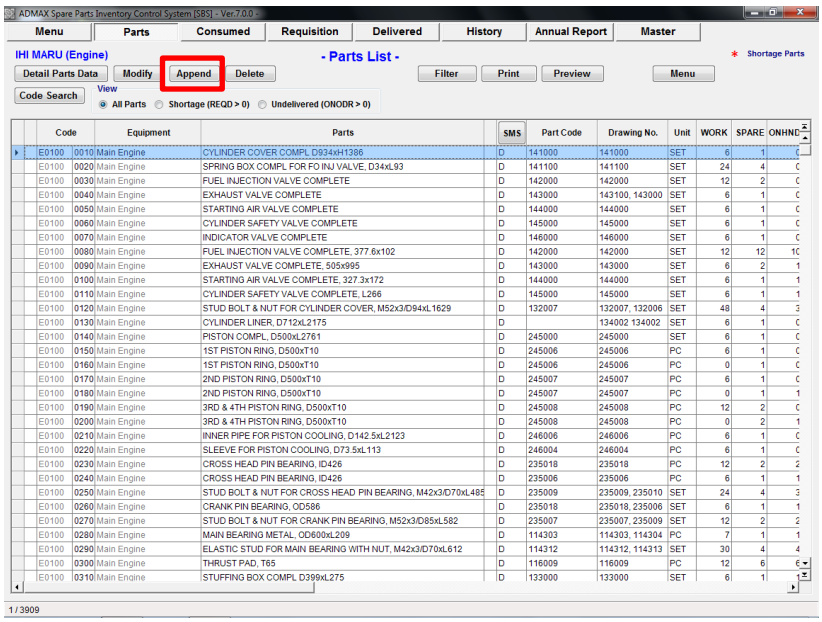


Fig 11.5 Parts List

11. Input data on “Parts Detail Dialog (Append Mode)”.
12. Select [Save] button.
13. Select [Close] button.
    Append flag (A) is put on subject spare parts ". This flag will be deleted after next Data Export.

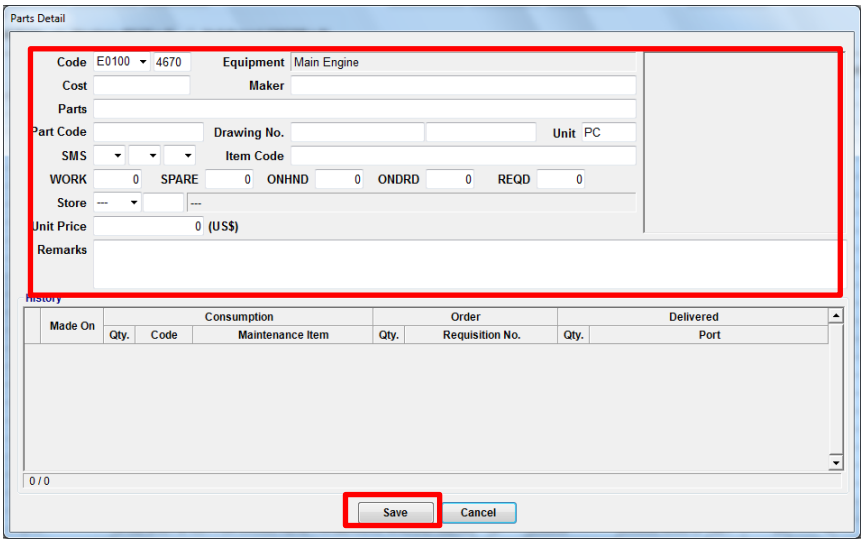


Fig 11.6 Parts Detail Dialog (Append Mode)

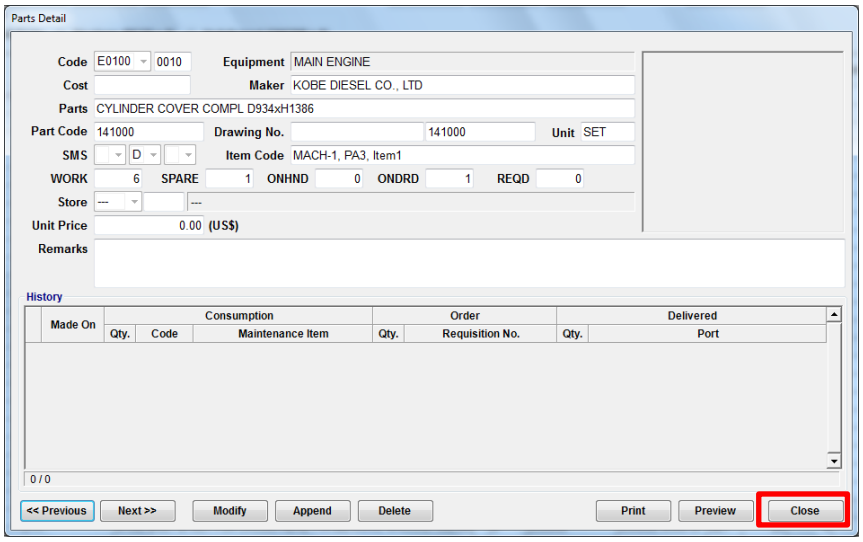


Fig 11.7 Parts Detail Dialog

14. If you want to delete spare parts data, select spare parts to be deleted on "Parts List Screen"(Fig.11-8).
15. Select [Delete] button and confirmation message is displayed.
16. Select [OK].
17. Deletion flag (D) is put on subject spare parts ".
18. Spare parts data with flag (D) will be completely deleted after next Data Export.

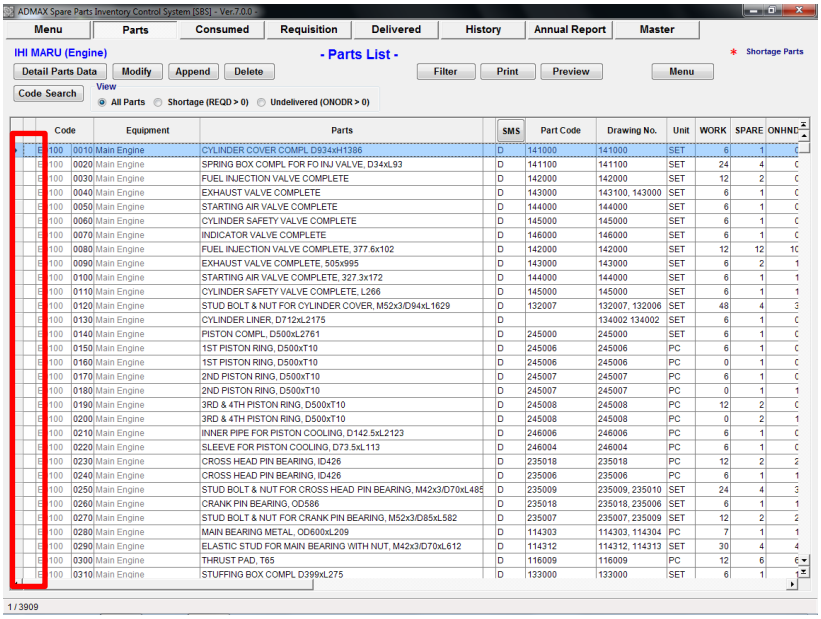


Fig 11.8 Parts List

12. Update Master Data (Equipment)

1. On the “Menu Screen”(Fig.12-1), select [Update Master Data].
2. “Equipments List Screen"(Fig.12-2) is displayed. In this screen, all equipments registered in master database are shown.
3. Select equipment to be modified.
4. Select [Modify] button and “Equipment Detail Dialog (Edit Mode)” (Fig.12-3) is displayed.

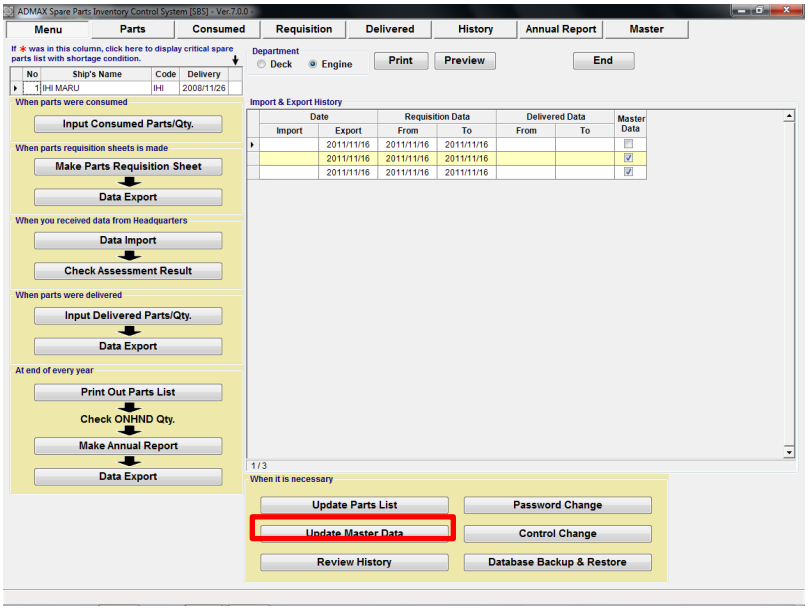


Fig 12.1 Menu

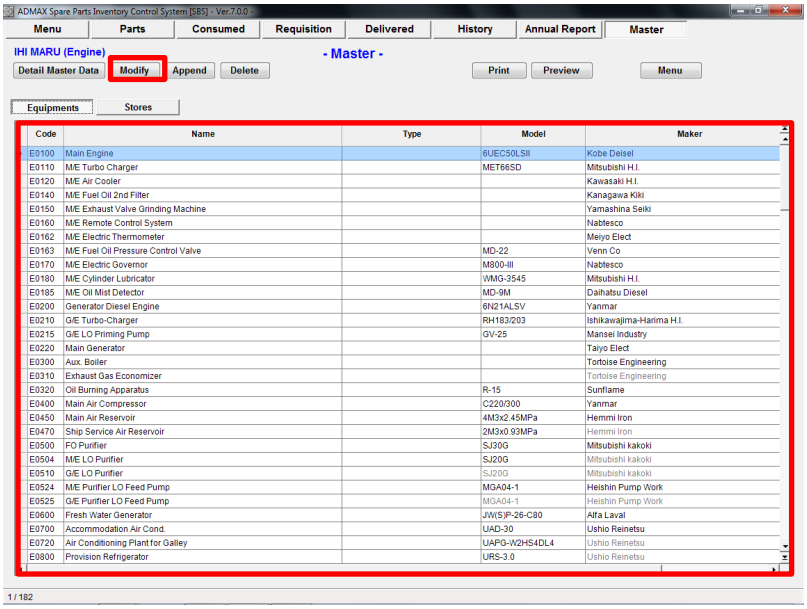


Fig 4.2 Equipments List

5. Modify data on “Detail Master Data (Equipments) (Edit Mode)”.
   Please note that CODE cannot be corrected.
6. Select [Save] button.

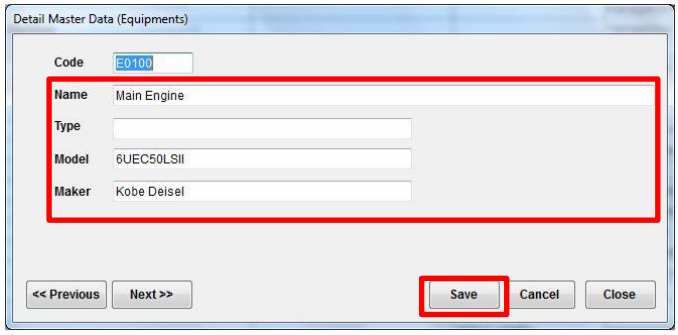


Fig 4.3 Detail Master Data (Equipments) (Edit Mode)

7. Select [Close] button to return to “Equipments List Screen".
8. Select a next check button of equipment to be modified and do step 3 ～7.

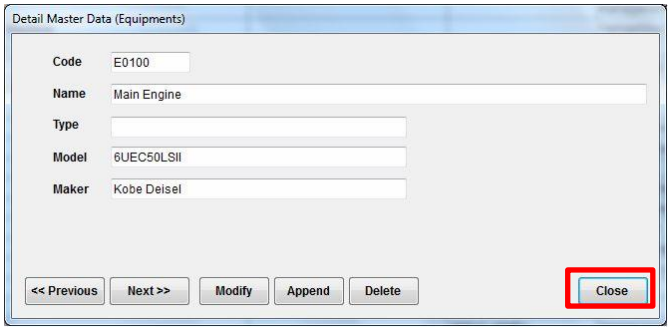


Fig 4.4 Detai Master Data (Equipments)

9. If you want to append new equipment data, select [Append] button on "Equipments List Screen"(Fig.12-5).
   "Detail Master Data (Equipment) (Append Mode) "(Fig.12-6) is displayed.

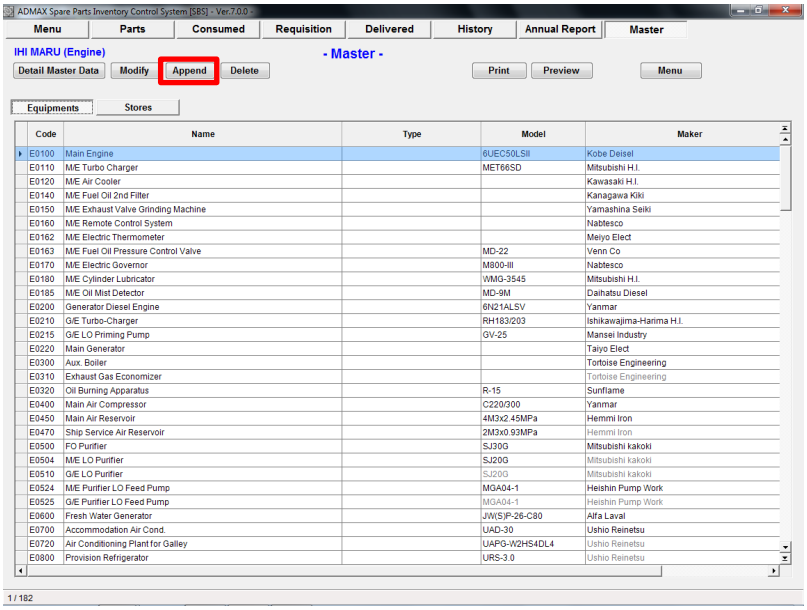


Fig 4.5 Equipments List

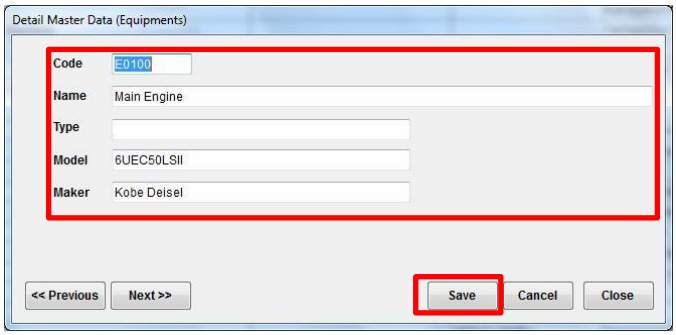


Fig 4.6 Detail Master Data (Equipments) (Append Mode)

10. Input data on “Detail Master Data (Equipments) (Append Mode)”.
11. Select [Save] button.
12. Select [Close] button.

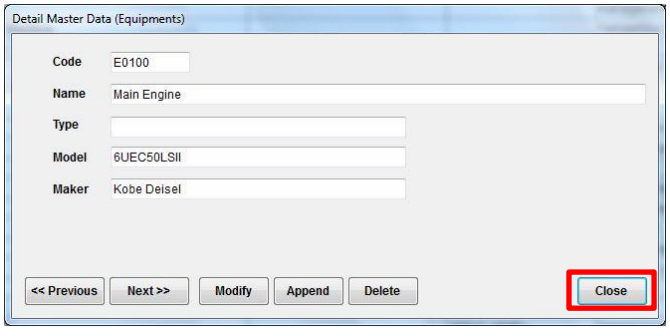


Fig 4.7 Detail Master Data (Equipments)

13. If you want to delete equipment data, select equipment to be deleted on "Equipments List Screen"(Fig.12-8).
14. Select [Delete] button and confirmation message is displayed.
15. Select [OK].

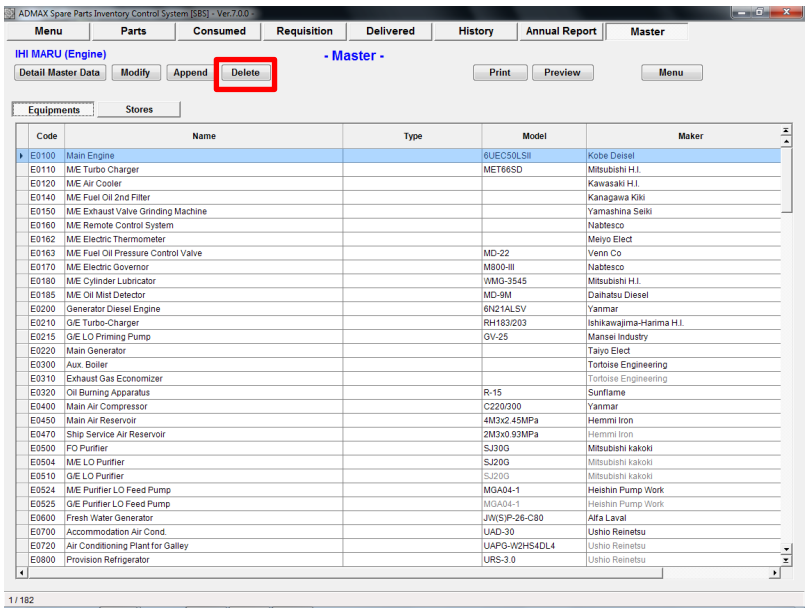


Fig 4.8 Equipments List

13. Update Master Data (Store)

1. On the “Menu Screen”(Fig.13-1), select [Update Master Data].

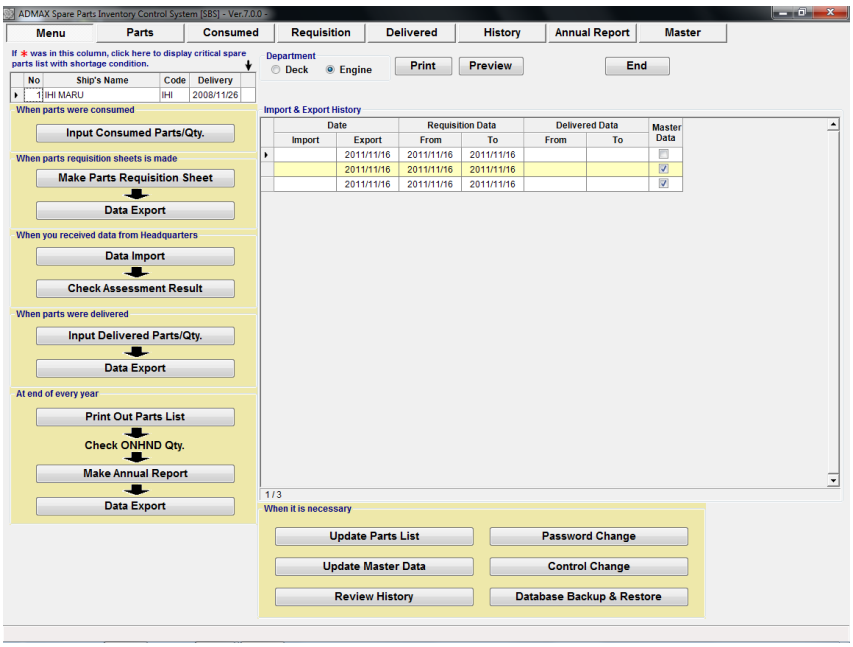


Fig 13.1 Menu

2. “Equipments List Screen"(Fig.13-2) is displayed and select [Stores] button.

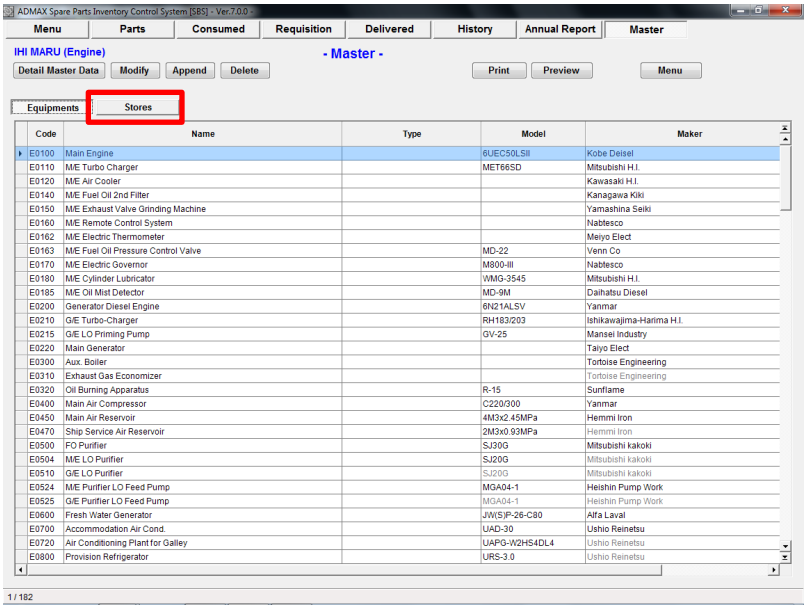


Fig 13.2 Equipments List

3. “Stores List Screen"(Fig.13-3) is displayed. In this screen, all stores registered in master database are shown.

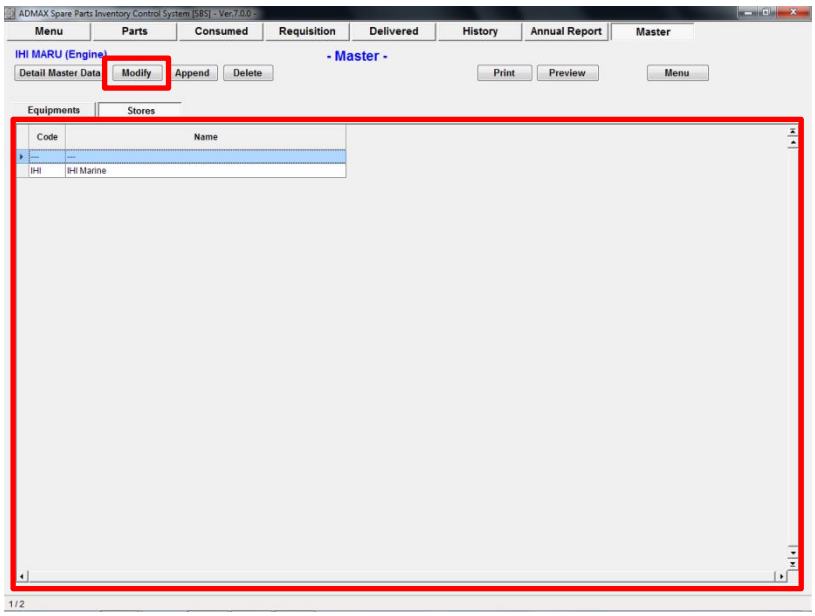


Fig 13.3 Stores List

4. Select store to be modified.
5. Select [Modify] button and “Detail Master Data (Stores) (Edit Mode)” (Fig.13-4) is displayed.
6. Modify data on “Detail Master Data (Stores) (Edit Mode)”.
   Please note that CODE cannot be corrected.

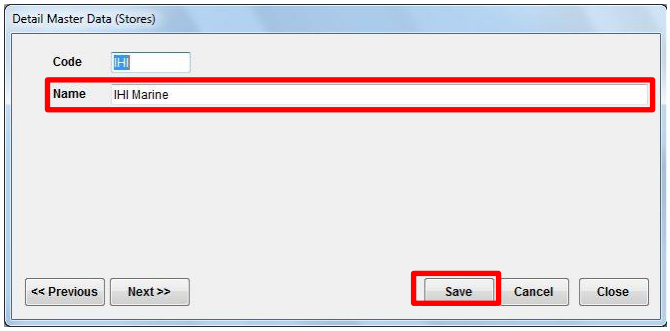


Fig 13.4 Detail Master Data (Stores) (Edit Mode)

7. Select [Save] button.
8. Select [Close] button to return to “Stores List Screen".
9. Select a next check button of store to be modified and do step 4 ～8.

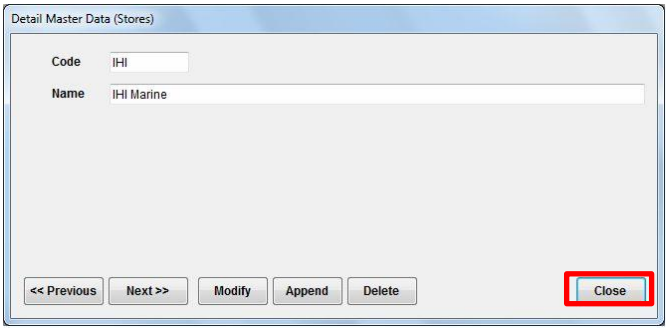


Fig 13.5 Detail Master Dat1 (Stores)

10. If you want to append new store data, select [Append] button on "Stores List Screen"(Fig.13-6).
    "Detail Master Data (Stores) (Append Mode) "(Fig.13-7) is displayed.

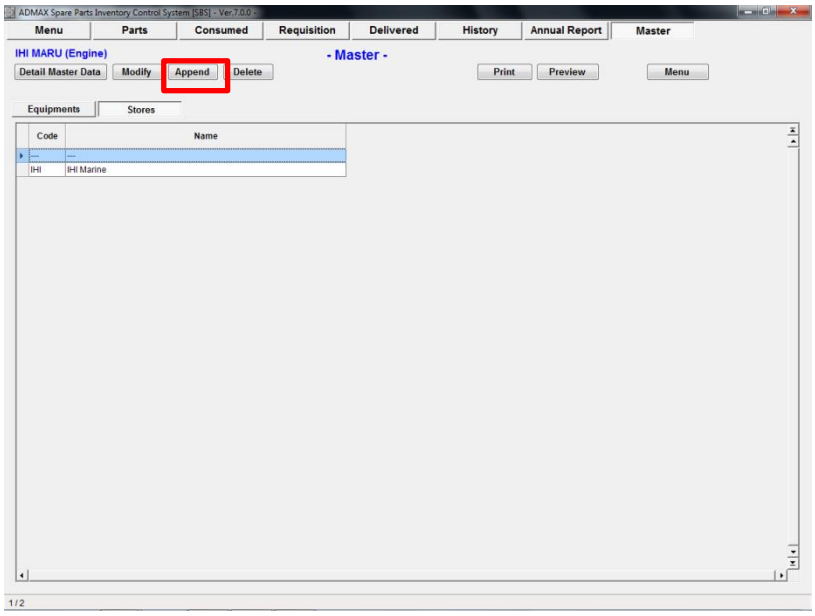


Fig 13.6 Stores List

11. Input data on “Detail Master Data (Append Mode)”.
12. Select [Save] button.

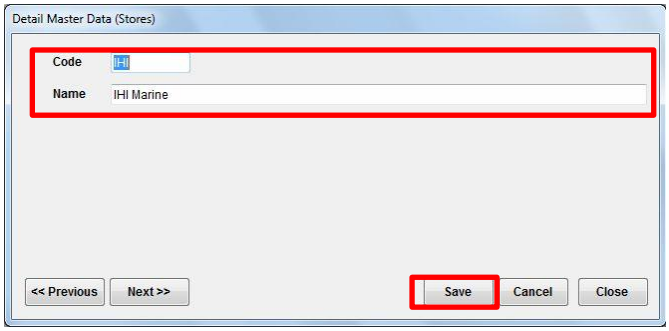


Fig 13.7 Detail Master Data (Stores) (Append Mode)

13. Select [Close] button.

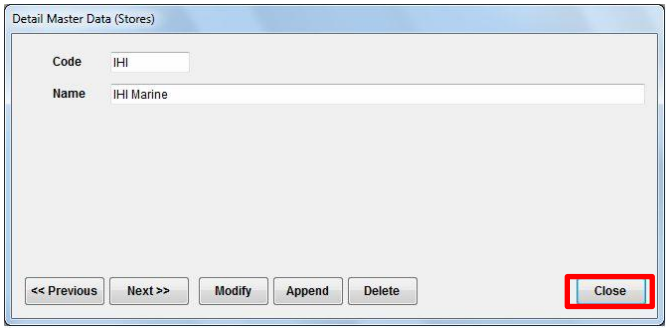


Fig 13.8 Detail Master Data (Stores)

14. If you want to delete store data, select store to be deleted on "Stores List Screen"(Fig.13-9).
15. Select [Delete] button and confirmation message is displayed.
16. Select [OK].

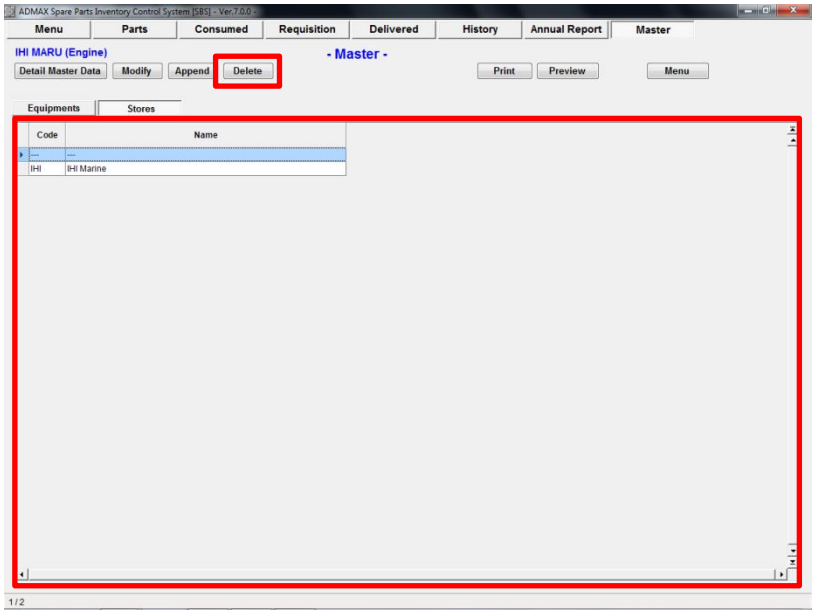


Fig 13.9 Stores List

14. Setting of User Authority and Password

"User Authority and Password" can be set for each user. Management of password only can be performed by the user who has administrator authority. Other users can't select [Password Change] button.

1. Select [Password Change] button on the "Menu Screen"(Fig.14-1).
   “Password Change Dialog"(Fig.14-2) is displayed.

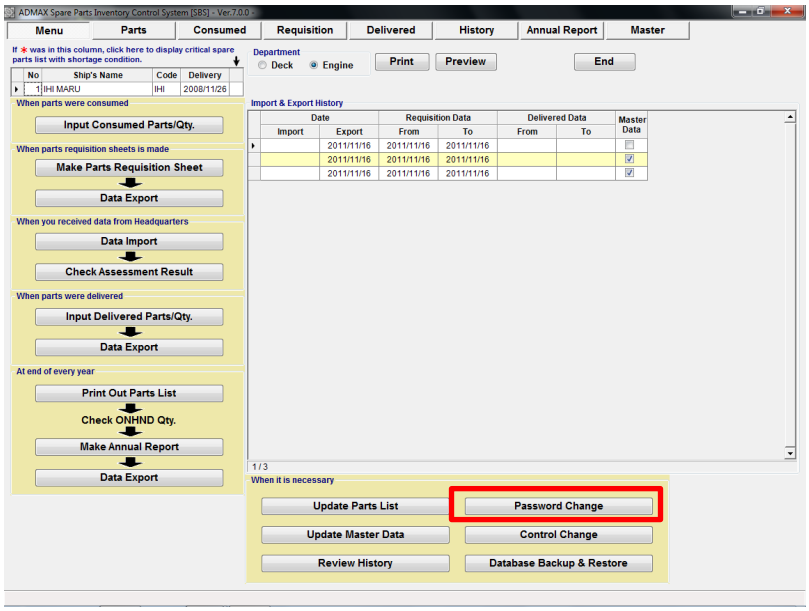


Fig 14.1 Menu

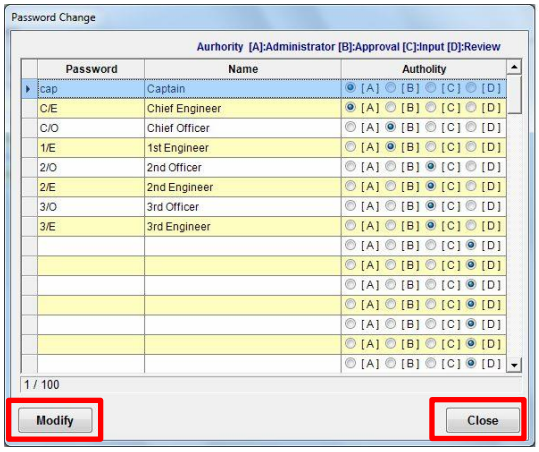


Fig 14.2 Password Change

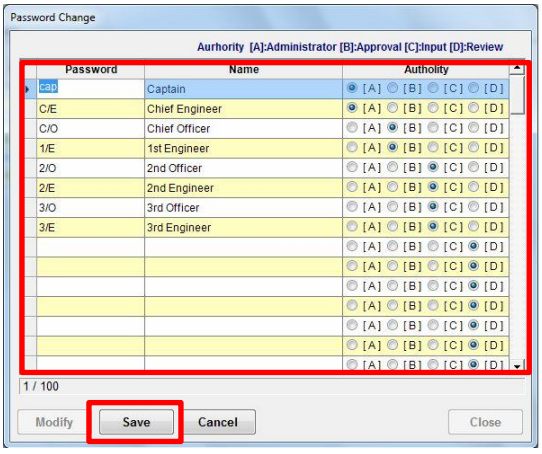


Fig 14.3 Password Change (Edit Mode)

2. Select [Modify] button.
3. Change "Password", "Name" and "Authority".
   "Password" shall be less than 20 characters. And, "Name" shall be less than 40 characters. Max.100 items can be registered.
4. If you want to save data, select [Save] button. If you want to cancel data, select [Cancel] button.
5. If you want to close, select [Close] button.

15. Setting of Controls

"Various Controls" can be set by the user who has administrator or approve authority.
Other users can't select [Control Change] button.

1. Select [Control Change] button on the "Menu Screen"(Fig.15-1).
   “Controls Dialog"(Fig.15-2) is displayed.

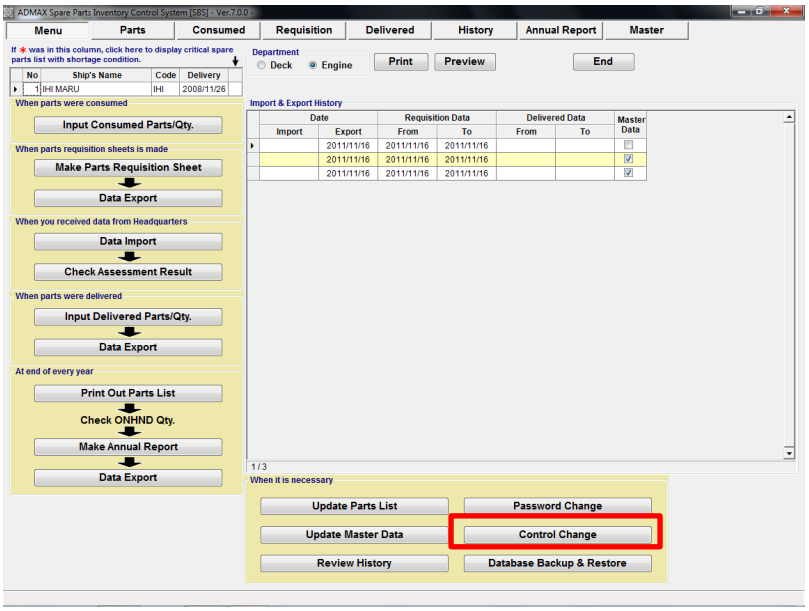


Fig 15.1 Menu

2. Select various setting for the following controls.
   - Guidance View
   - Date Format
   - Sort Type
   - Bar Code Print
   - Category Title
3. If you want to close, select [OK] button.

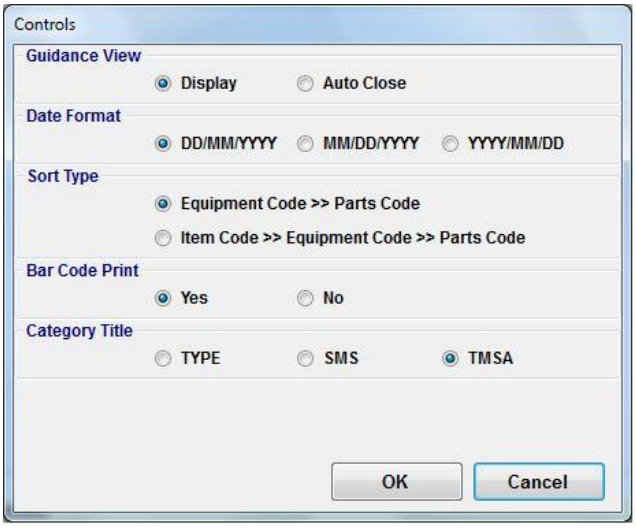


Fig 15.2 Controls

16. Database Backup / Restore

CMAXS database may not be used because of PC or server hardware trouble etc.
Please take backup of database regularly in case of those troubles.
Please save back up files to external media (MO, CD, DVD).

16.1 Database Backup

1. Select [Database Backup & Restore] button on the “Menu Screen"(Fig.16-1).
   “Backup & Restore Dialog" (Fig.16-2) is displayed.

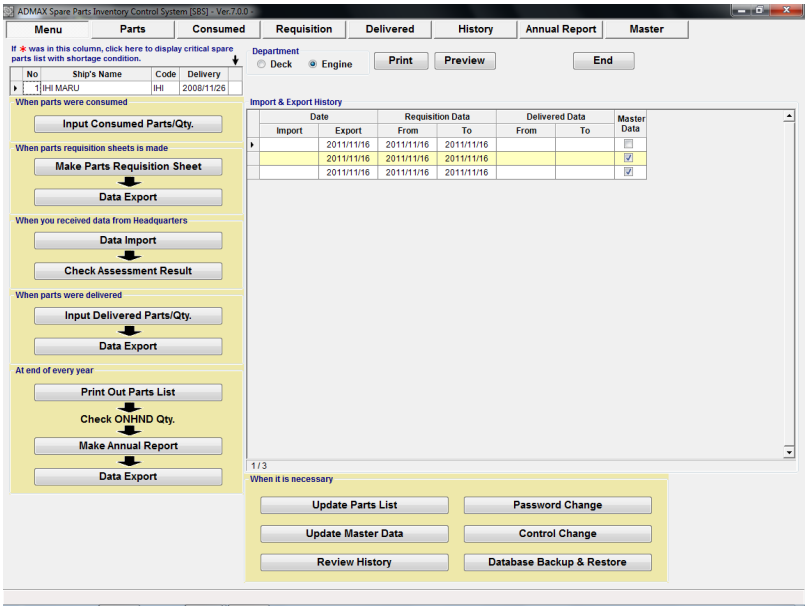


Fig 16.1 Menu

2. [Database Backup] tab is selected. Then, select [Browse] button.

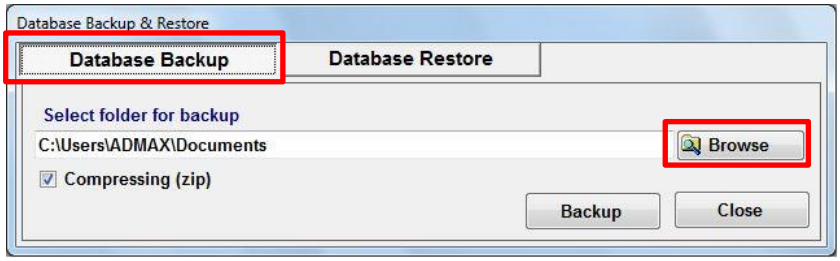


Fig 15.1.1 Database Backup & Restore

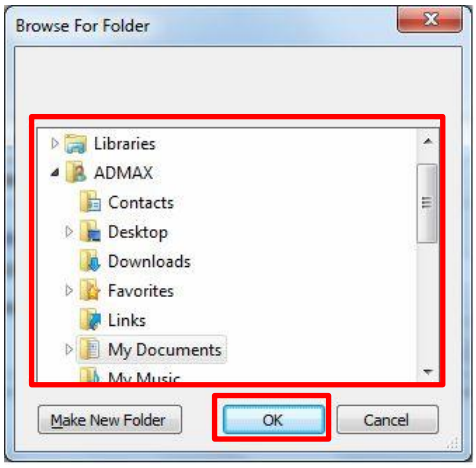


Fig 15.1.2 Browse For Folder

3. "Folder Selection Dialog" is displayed. Select proper folder to save backup data. Then, select [OK] button.
4. Put check mark on “Compressing (zip)” if you want to compress back up data. Uncheck if you do not want to compress.
5. Select [Backup] button.
6. After making backup, completion message is displayed.
   Then, select [OK].
7. Select [Close].

16.2 Database Restore

1. If you have to repair CMAXS PC or SPICS program,
   please complete those works in advance.
2. Select [Database Backup & Restore] button on the “Menu Screen"(Fig.16-3).
   “Backup & Restore Dialog"(Fig.16-4) is displayed.

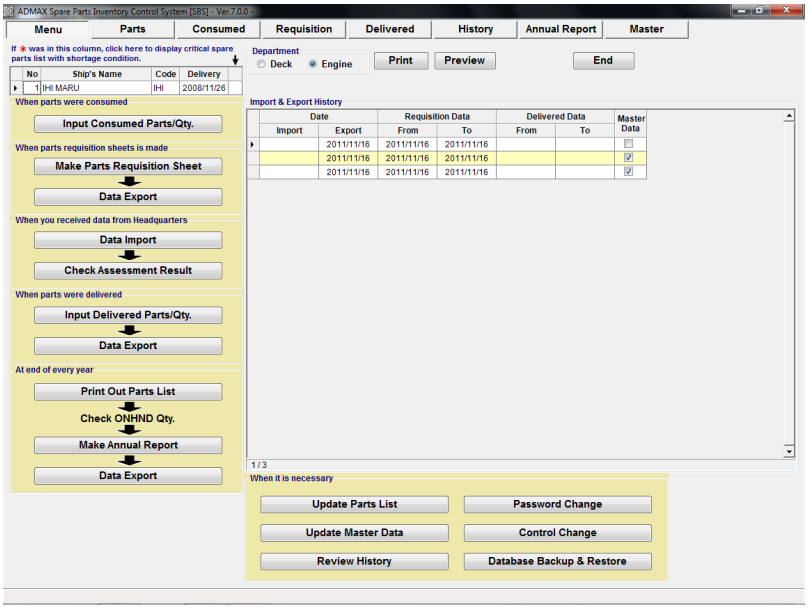


Fig 16.3 Menu

3. Select [Database Restore] tab.

4.-1 In case the backup data is compressed by zip format

(1) Put check mark on ”Compressing (zip)”. Then, click [Browse].

(2) “Open” dialog is displayed. Select back up data（zip file）.
Then, click [Open].

4.-2 In case the backup data is not compressed (just back up folder)

(1) Uncheck ”Compressing (zip)”. Then, click [Browse].

(2) Select back up folder. Then, click [OK].

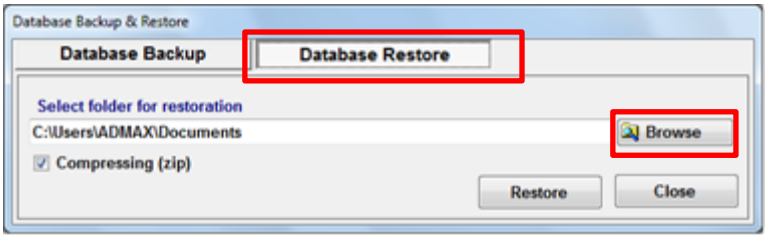


Fig 16.4 Database Backup & Restore

5. Select [Restore] button.

6. After making restore, completion message is displayed.
Then, select [OK].

7. SPICS restarts.

Fig 16.5 Open

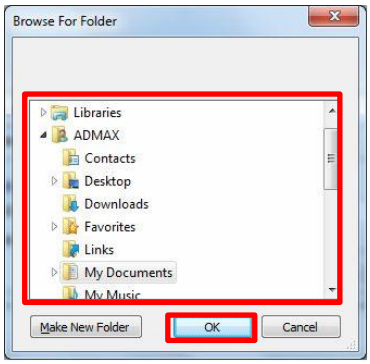


Fig 16.6 Browse for Folder

17. Common Utility Functions

17.1 Code Search Function

On the “Parts List Screen”, " Consumed Parts List Screen “, “Parts Requisition Screen”, “Delivered Parts List Screen “, "History Screen" and “Annual Report Screen", "Code Search" function can be used for searching objective spare parts easily.

1. Select [Code Search] button on the “Parts List Screen” (Fig.17-1).

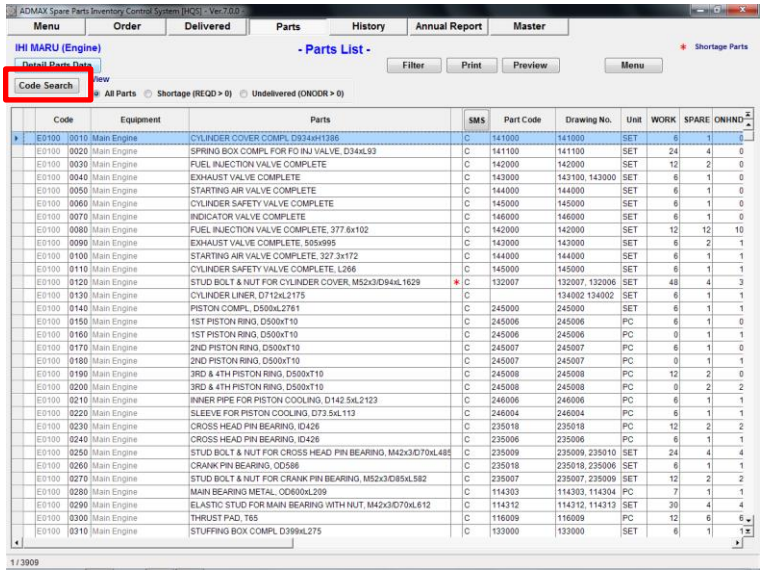


Fig 17.1 Parts List

2. Click [+]mark of equipment and select target spare parts data (Fig. 17-2). Then, select [OK].
3. Selected spare parts is displayed.

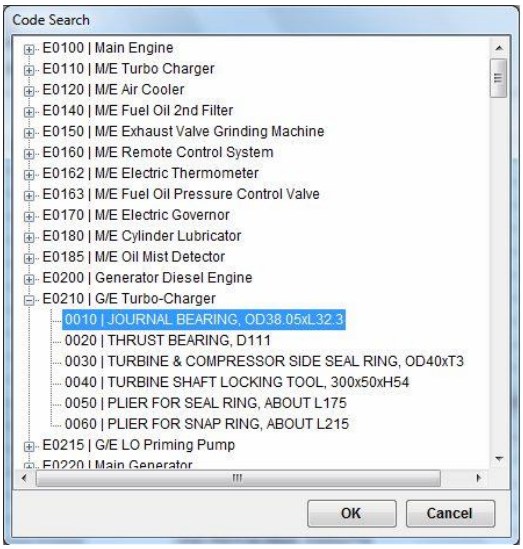


Fig 17.2 Code Search

17.2 Filter Function

On the “Parts List Screen”, " Consumed Parts List Screen “, “Parts Requisition Screen”, “Delivered Parts List Screen “, "History Screen" and “Annual Report Screen", "Filter" function can be used for extracting by setting of extraction conditions.

1. Select [Filter] button on the “Parts List Screen”(Fig.17-3).
2. Select or input extracting conditions.
   Then, select [OK].
   Multiple extracting conditions can be set at the same time.
3. Extracted data are displayed.

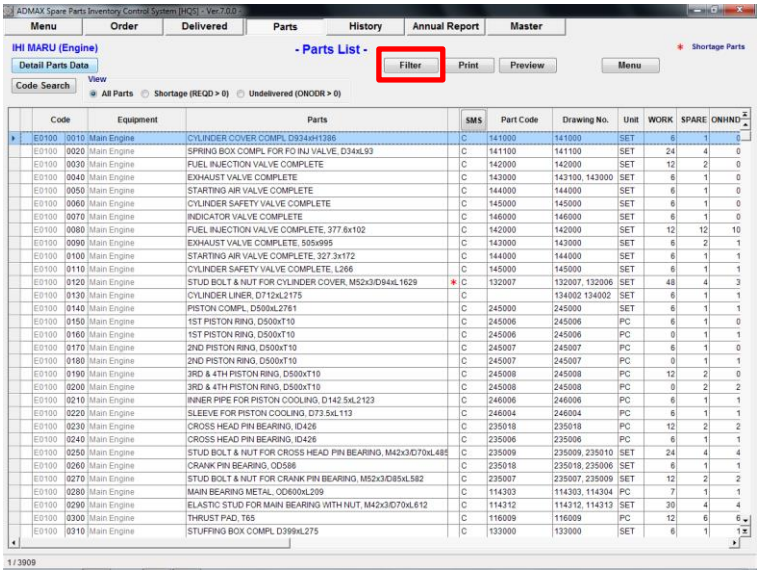


Fig 17.3 Parts List

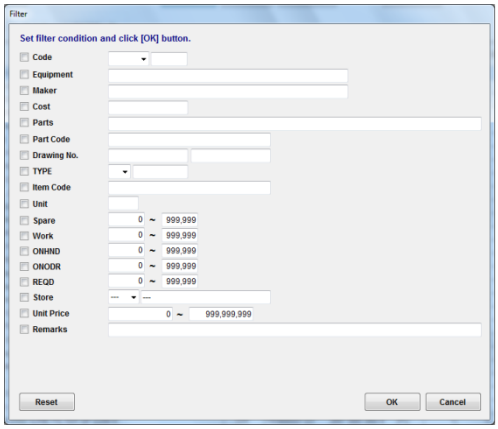


Fig.17-4 Filter

<Extracting conditions>

(1) Code : Equipment code and/or spare parts code
(2) Equipment : Equipment name
(3) Maker : Equipment’s maker name
(4) Cost : Cost code for budget control
(5) Parts : Spare parts name
(6) Part Code : Maker’s spare parts’ code
(7) Drawing No : Drawing Number
(8) SMS : Spare parts type
(This title can be changed. Refer to Section 15)
(9) Item Code : Spare parts drawing + page + item number
(10) Unit : Unit for spare parts
(11) Spare : Standard spare parts stock quantity
(12) Working : Spare parts working quantity
(13) Spare R.O.B : Current spare parts stock quantity
(14) On Order : Unreceived spare parts quantity
(15) Required : Required = Standard – (Spare R.O.B + On Order)
(16) Store : Store location code and/or store name
(17) Unit Price : Spare parts unit price
(18) Remarks : Remarks

17.3 Spare Parts Type Review & Modify

On the “Parts List Screen”, " Consumed Parts List Screen “, “Parts Requisition Screen”, “Delivered Parts List Screen “, "History Screen" and “Annual Report Screen", spare parts type (SMS) can be reviewed & modified.

1. Select [SMS] button on the “Parts List Screen” (Fig.17-5).

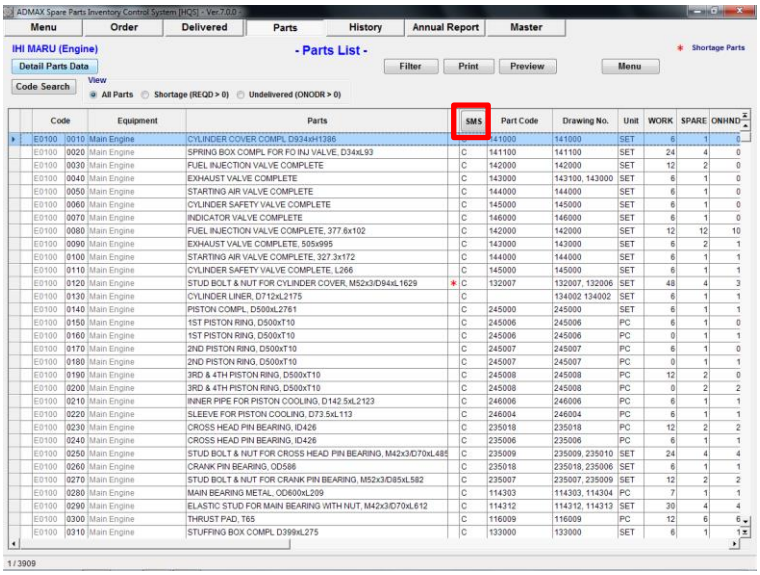


Fig 17.5 Parts List

2. “SMS Dialog "(Fig.17-6) is displayed.
3. If you want to modify type, select [Modify] button.
4. Modify Type name on “SMS Dialog (Edit Mode)”.
5. Select [Save] button.
6. Select [Close] button.

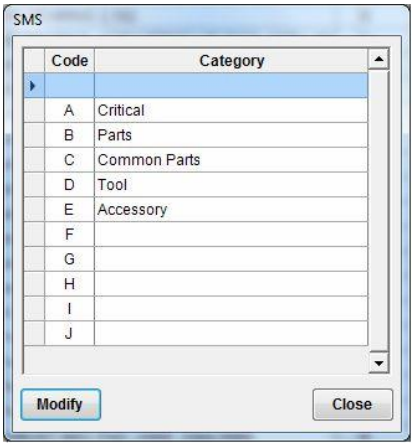


Fig 16.3.2 SMS

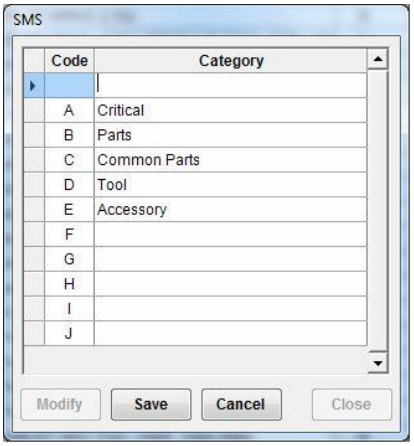


Fig 16.3.3 SMS(Edit Mode)

Appendix A. Sample Screen

A.1 Parts Requisition (Assess)

IHI MARU (Engine)

Date : 12/14/2011
ABC Company

Parts Requisition (Assess)

Code No. : 724 Requisition No. : test

Remarks :

○ Urgent ◉ Routine ☐ Dock Use

Delivered Date : 12/14/2011 - 12/14/2011

Delivered Port : test

Made on : 12/14/2011 by : Captain

Assessed on : 12/14/2011 by : Manager

* : shows there comments of Shipboard and/or Headquarters

Code	Equipment / Parts	Part Code / Drawing No.	SMS / Unit	WORK / SPARE	ONHND / ONODR	ORDR / ASSESS	Item Code	Cost Code	Remarks
E0100	Main Engine	142000	C	12	9	1	MACH-1, PA4, Item1		SAME PART AS E0100 0030
0080	FUEL INJECTION VALVE COMPLETE, 377.6x102	142000	SET	12	2	1			
E0100	Main Engine	143000	C	6	0	1	MACH-1, PA4, Item2		SAME PART AS E0100 0040
0090	EXHAUST VALVE COMPLETE, 505x995	143000	SET	2	1	1			
E0100	Main Engine	144000	C	6	0	1	MACH-1, PA4, Item3		SAME PART AS E0100 0050
0100	STARTING AIR VALVE COMPLETE, 327.3x172	144000	SET	1	0	1			

A.2 Parts Requisition (Quotation)

IHI MARU (Engine)

Date : 12/14/2011
ABC Company

Parts Requisition (Quotation)

Code No. : 724 Requisition No. : test

Remarks :

○ Urgent ◉ Routine ☐ Dock Use

Delivered Date : 12/14/2011 - 12/14/2011

Delivered Port : test

Made on : 12/14/2011 by : Captain

Assessed on : 12/14/2011 by : Manager

* : shows there comments of Shipboard and/or Headquarters

Code	Equipment / Parts	ASSESS / Unit	SNX													
E0100	Main Engine	1	☑ 30.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00
0080	FUEL INJECTION VALVE COMPLETE, 377.6x102	SET	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E0100	Main Engine	1	☑ 30.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00
0090	EXHAUST VALVE COMPLETE, 505x995	SET	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E0100	Main Engine	1	☑ 30.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00
0100	STARTING AIR VALVE COMPLETE, 327.3x172	SET	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

A.3 Parts Requisition (Order)

IHI MARU (Engine)

Date : 12/14/2011
ABC Company

Parts Requisition (Order)

Code No. : 724 Requisition No. : test

Remarks :

○ Urgent ◉ Routine ☐ Dock Use

Delivered Date : 12/14/2011 - 12/14/2011

Delivered Port : test

Made on : 12/14/2011 by : Captain

Assessed on : 12/14/2011 by : Manager

* : shows there comments of Shipboard and/or Headquarters

Code	Equipment / Parts	ASSESS / Unit	SNX													
E0100	Main Engine	1	☑ 30.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00
0080	FUEL INJECTION VALVE COMPLETE, 377.6x102	SET	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E0100	Main Engine	1	☑ 30.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00
0090	EXHAUST VALVE COMPLETE, 505x995	SET	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E0100	Main Engine	1	☑ 30.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00	☐ 0.00
0100	STARTING AIR VALVE COMPLETE, 327.3x172	SET	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

A.4 Delivered Part List

IHI MARU (Engine)

Date : 12/15/2011
ABC Company

Delivered Parts List

Requisition No. : test

Delivered Date : 12/15/2011

Delivered Port : test

Made on : 12/15/2011 by : Captain

* : shows there comments of Shipboard and/or Headquarters

Code	Equipment / Parts	Part Code / Drawing No.	SMS / Unit	WORK / SPARE	ONHND / ONODR	ASSESS / DELIV	Item Code	Cost Code	Remarks
E0100	Main Engine	142000	C	12	10	1	MACH-1, PA4, Item1		SAME PART AS E0100 0030
0080	FUEL INJECTION VALVE COMPLETE, 377.6x102	142000	SET	12	0	1			
E0100	Main Engine	143000	C	6	1	1	MACH-1, PA4, Item2		SAME PART AS E0100 0040
0090	EXHAUST VALVE COMPLETE, 505x995	143000	SET	2	0	1			
E0100	Main Engine	144000	C	6	1	1	MACH-1, PA4, Item3		SAME PART AS E0100 0050
0100	STARTING AIR VALVE COMPLETE, 327.3x172	144000	SET	1	0	1			

A.5 History (Consumed Parts)

IHI MARU (Engine)

Date : 12/15/2011
ABC Company

History (Consumed Parts)

Period : 12/15/2010 - 12/15/2011

Code	Equipment / Parts	Part Code / Drawing No.	SMS / Unit	WORK / SPARE	Date / Maintenance Item	CSMD	Code	Item Code	Cost Code
E0100	Main Engine	142000	C	12	12/14/2011	1	-------	MACH-1, PA4, Item1	
0080	FUEL INJECTION VALVE COMPLETE, 377.6x102	142000	SET	12					
E0100	Main Engine	143000	C	6	12/14/2011	1	-------	MACH-1, PA4, Item2	
0090	EXHAUST VALVE COMPLETE, 505x995	143000	SET	2					
E0100	Main Engine	144000	C	6	12/14/2011	1	-------	MACH-1, PA4, Item3	
0100	STARTING AIR VALVE COMPLETE, 327.3x172	144000	SET	1					

A.6 History (Order Parts)

IHI MARU (Engine)

Date : 12/15/2011
ABC Company

History (Ortder Parts)

Period : 12/15/2010 - 12/15/2011

Grand Total (US$) :

Code	Equipment / Parts	Part Code / Drawing No.	SMS / Unit	WORK / SPARE	Date / Requisition No.	ORDR	Supp.	Unit Price / Grand Total	Item Code	Cost Code
E0100	Main Engine	142000	C	12	12/14/2011	0		0.00	MACH-1, PA4, Item1	
0080	FUEL INJECTION VALVE COMPLETE, 377.6x102	142000	SET	12	test			0.00		
E0100	Main Engine	143000	C	6	12/14/2011	0		0.00	MACH-1, PA4, Item2	
0090	EXHAUST VALVE COMPLETE, 505x995	143000	SET	2	test			0.00		
E0100	Main Engine	144000	C	6	12/14/2011	0		0.00	MACH-1, PA4, Item3	
0100	STARTING AIR VALVE COMPLETE, 327.3x172	144000	SET	1	test			0.00		

A.7 History (Delivered Parts)

IHI MARU (Engine)

Date : 12/15/2011
ABC Company

History (Delivered Parts)

Period : 12/15/2010 - 12/15/2011

Grand Total (US$) :

Code	Equipment / Parts	Part Code / Drawing No.	SMS / Unit	WORK / SPARE	Date / Delivered Port	DELIV	Unit Price / Grand Total	Item Code	Cost Code
E0100	Main Engine	142000	C	12	12/15/2011	1	0.00	MACH-1, PA4, Item1	
0080	FUEL INJECTION VALVE COMPLETE, 377.6x102	142000	SET	12	test		0.00		
E0100	Main Engine	143000	C	6	12/15/2011	1	0.00	MACH-1, PA4, Item2	
0090	EXHAUST VALVE COMPLETE, 505x995	143000	SET	2	test		0.00		
E0100	Main Engine	144000	C	6	12/15/2011	1	0.00	MACH-1, PA4, Item3	
0100	STARTING AIR VALVE COMPLETE, 327.3x172	144000	SET	1	test		0.00		

A.8 Annual Report

IHI MARU (Engine)

Date : 12/14/2011
ABC Company

Annual Report

Period : 04/01/2010 - 12/14/2011

Made on : 12/14/2011 by : Captain

Grand Total (US$) 0.00

Code	Equipment / Parts	Part Code / Drawing No.	SMS / Unit	WORK / SPARE	ONHND Last	ONHND Curr.	Total CSMD	Total ORDR	Total DELIV	Item Code	Cost Code	Unit Price / Total Price
E0100	Main Engine	141000	C	6	0	0	0	0	0	MACH-1, PA3, Item1		0.00
0010	CYLINDER COVER COMPL D934xH1386	141000	SET	1								0.00
E0100	Main Engine	141100	C	24	0	0	0	0	0	MACH-1, PA3, Item1A		0.00
0020	SPRING BOX COMPL FOR FO INJ VALVE, D34xL93	141100	SET	4								0.00
E0100	Main Engine	142000	C	12	0	0	0	0	0	MACH-1, PA3, Item1B		0.00
0030	FUEL INJECTION VALVE COMPLETE	142000	SET	2								0.00
E0100	Main Engine	143000	C	6	0	0	0	0	0	MACH-1, PA3, Item1C		0.00
0040	EXHAUST VALVE COMPLETE	143100, 143000	SET	1								0.00
E0100	Main Engine	144000	C	6	0	0	0	0	0	MACH-1, PA3, Item1D		0.00
0050	STARTING AIR VALVE COMPLETE	144000	SET	1								0.00
E0100	Main Engine	145000	C	6	0	0	0	0	0	MACH-1, PA3, Item1E		0.00
0060	CYLINDER SAFETY VALVE COMPLETE	145000	SET	1								0.00
E0100	Main Engine	146000	C	6	0	0	0	0	0	MACH-1, PA3, Item1F		0.00
0070	INDICATOR VALVE COMPLETE	146000	SET	1								0.00
E0100	Main Engine	142000	C	12	0	0	0	0	0	MACH-1, PA4, Item1		0.00
0080	FUEL INJECTION VALVE COMPLETE, 377.6x102	142000	SET	12								0.00
E0100	Main Engine	143000	C	6	0	0	0	0	0	MACH-1, PA4, Item2		0.00
0090	EXHAUST VALVE COMPLETE, 505x995	143000	SET	2								0.00
E0100	Main Engine	144000	C	6	0	0	0	0	0	MACH-1, PA4, Item3		0.00
0100	STARTING AIR VALVE COMPLETE, 327.3x172	144000	SET	1								0.00
E0100	Main Engine	145000	C	6	0	0	0	0	0	MACH-1, PA4, Item4		0.00
0110	CYLINDER SAFETY VALVE COMPLETE, L266	145000	SET	1								0.00
E0100	Main Engine	132007	C	48	0	0	0	0	0	MACH-1, PA4, Item5		0.00
0120	STUD BOLT & NUT FOR CYLINDER COVER, M52x3/D94xL1629	132007, 132006	SET	4								0.00
E0100	Main Engine		C	6	0	0	0	0	0	MACH-1, PA5, Item1		0.00
0130	CYLINDER LINER, D712xL2175	134002 134002	SET	1								0.00
E0100	Main Engine	245000	C	6	0	0	0	0	0	MACH-1, PA5, Item2		0.00
0140	PISTON COMPL, D500xL2761	245000	SET	1								0.00

A.9 Parts List (All Parts)

IHI MARU (Engine)

Date : 12/15/2011

ABC Company

Parts List (All Parts)

* Shortage Parts

Code	Equipment / Parts	Part Code / Drawing No.		SMS / Unit	WORK / SPARE	ONHND / ONORD	REQD	Item Code	Cost Code	Price / Store	Remarks
E0100	Main Engine	141000		C	6	0	0	MACH-1, PA3, Item1		0.00	
0010	CYLINDER COVER COMPL D934xH1386	141000		SET	1	1				---	
E0100	Main Engine	141100		C	24	0	0	MACH-1, PA3, Item1A		0.00	BEING INCLUDED IN E0100 0010
0020	SPRING BOX COMPL FOR FO INJ VALVE, D34xL93	141100		SET	4	4				---	
E0100	Main Engine	142000		C	12	0	0	MACH-1, PA3, Item1B		0.00	BEING INCLUDED IN E0100 0010 & SAME PART AS E0100 0080
0030	FUEL INJECTION VALVE COMPLETE	142000		SET	2	2				---	
E0100	Main Engine	143000		C	6	0	0	MACH-1, PA3, Item1C		0.00	BEING INCLUDED IN E0100 0010 & SAME PART AS E0100 0090
0040	EXHAUST VALVE COMPLETE	143100, 143000		SET	1	1				---	
E0100	Main Engine	144000		C	6	0	0	MACH-1, PA3, Item1D		0.00	BEING INCLUDED IN E0100 0010 & SAME PART AS E0100 0100
0050	STARTING AIR VALVE COMPLETE	144000		SET	1	1				---	
E0100	Main Engine	145000		C	6	0	0	MACH-1, PA3, Item1E		0.00	BEING INCLUDED IN E0100 0010 & SAME PART AS E0100 0110
0060	CYLINDER SAFETY VALVE COMPLETE	145000		SET	1	1				---	
E0100	Main Engine	146000		C	6	0	0	MACH-1, PA3, Item1F		0.00	BEING INCLUDED IN E0100 0010
0070	INDICATOR VALVE COMPLETE	146000		SET	1	1				---	
E0100	Main Engine	142000	*	C	12	10	2	MACH-1, PA4, Item1		0.00	SAME PART AS E0100 0030
0080	FUEL INJECTION VALVE COMPLETE, 377.6x102	142000	*	SET	12	0				---	
E0100	Main Engine	143000	*	C	6	1	1	MACH-1, PA4, Item2		0.00	SAME PART AS E0100 0040
0090	EXHAUST VALVE COMPLETE, 505x995	143000	*	SET	2	0				---	
E0100	Main Engine	144000		C	6	1	0	MACH-1, PA4, Item3		0.00	SAME PART AS E0100 0050
0100	STARTING AIR VALVE COMPLETE, 327.3x172	144000		SET	1	0				---	
E0100	Main Engine	145000		C	6	1	0	MACH-1, PA4, Item4		0.00	SAME PART AS E0100 0060
0110	CYLINDER SAFETY VALVE COMPLETE, L266	145000		SET	1	0				---	

A.10 Parts Data

IHI MARU (Engine)

Date : 12/15/2011

ABC Company

Parts Data

Equipment: Main Engine
Maker: Kobe Deisel
Parts: CYLINDER COVER COMPL D934xH1386
Part Code: 141000
DWG No.: 141000
SMS: C SPARE: 1 Unit: SET (US$)
Store: -- Unit Price: 0.00
Remarks:
Item Code: MACH-1, PA3, Item1
E01000010

Equipment: Main Engine
Maker: Kobe Deisel
Parts: SPRING BOX COMPL FOR FO INJ VALVE, D34xL93
Part Code: 141100
DWG No.: 141100
SMS: C SPARE: 4 Unit: SET (US$)
Store: -- Unit Price: 0.00
Remarks: BEING INCLUDED IN E0100 0010
Item Code: MACH-1, PA3, Item1A
E01000020

Equipment: Main Engine
Maker: Kobe Deisel
Parts: FUEL INJECTION VALVE COMPLETE
Part Code: 142000
DWG No.: 142000
SMS: C SPARE: 2 Unit: SET (US$)
Store: -- Unit Price: 0.00
Remarks: BEING INCLUDED IN E0100 0010 & SAME PART AS E0100 0080
Item Code: MACH-1, PA3, Item1B
E01000030

Equipment: Main Engine
Maker: Kobe Deisel
Parts: EXHAUST VALVE COMPLETE
Part Code: 143000
DWG No.: 143100, 143000
SMS: C SPARE: 1 Unit: SET (US$)
Store: -- Unit Price: 0.00
Remarks: BEING INCLUDED IN E0100 0010 & SAME PART AS E0100 0090
Item Code: MACH-1, PA3, Item1C
E01000040

A.11 Equipments List

IHI MARU (Engine) Date : 12/15/2011

Equipments List ABC Company

Code	Name	Type	Model	Maker
E0100	Main Engine		6UEC50LSII	Kobe Diesel
E0110	M/E Turbo Charger		MET66SD	Mitsubishi H.I.
E0120	M/E Air Cooler			Kawasaki H.I.
E0140	M/E Fuel Oil 2nd Filter			Kanagawa Kiki
E0150	M/E Exhaust Valve Grinding Machine			Yamashina Seiki
E0160	M/E Remote Control System			Nabtesco
E0162	M/E Electric Thermometer			Meiyo Elect
E0163	M/E Fuel Oil Pressure Control Valve		MD-22	Venn Co
E0170	M/E Electric Governor		M800-III	Nabtesco
E0180	M/E Cylinder Lubricator		WMG-3545	Mitsubishi H.I.
E0185	M/E Oil Mist Detector		MD-9M	Daihatsu Diesel
E0200	Generator Diesel Engine		6N21ALSV	Yanmar
E0210	G/E Turbo-Charger		RH183/203	Ishikawajima-Harima H.I.
E0215	G/E LO Priming Pump		GV-25	Mansei Industry
E0220	Main Generator			Taiyo Elect
E0300	Aux. Boiler			Tortoise Engineering
E0310	Exhaust Gas Economizer			Tortoise Engineering
E0320	Oil Burning Apparatus		R-15	Sunflame
E0400	Main Air Compressor		C220/300	Yanmar
E0450	Main Air Reservoir		4M3x2.45MPa	Hemmi Iron
E0470	Ship Service Air Reservoir		2M3x0.93MPa	Hemmi Iron
E0500	FO Purifier		SJ30G	Mitsubishi kakoki
E0504	M/E LO Purifier		SJ20G	Mitsubishi kakoki
E0510	G/E LO Purifier		SJ20G	Mitsubishi kakoki
E0524	M/E Purifier LO Feed Pump		MGA04-1	Heishin Pump Work
E0525	G/E Purifier LO Feed Pump		MGA04-1	Heishin Pump Work
E0600	Fresh Water Generator		JW(S)F-26-C80	Alfa Laval
E0700	Accommodation Air Cond.		UAD-30	Ushio Reinetsu
E0720	Air Conditioning Plant for Galley		UAPG-W2HS4DL4	Ushio Reinetsu
E0800	Provision Refrigerator		URS-3.0	Ushio Reinetsu
E1005	Drain Cooler		DCH4F-15B16T	Yamashina Seiki
E1006	FO Heater for M/E			Kajiwara Iron Works Co.,Ltd.
E1007	FO Heater for Purifier			Kajiwara Iron Works Co.,Ltd.
E1008	LO Heater for Purifier			Kajiwara Iron Works Co.,Ltd.
E1012	Plate Type Heat Exchanger	ALS Type	T20-MFMx2/M15-MFMx1	Alfa Laval Japan
E1014	Harrison Type Heater		HEO-16-S	Tokyo Roki
E1017	Calorifier		EX-PK-40	
E1030	Electric Heater			Uzushio Electric
E1100	Induction Motor			Taiyo Elect
E1101	Jacket Cool FW Pump		HLY-55MN	Heishin Pump Work
E1102	Central Cool FW Pump		RVD-450EN	Heishin Pump Work
E1103	Cooling SW Pump		RVD-450EN	Heishin Pump Work
E1104	Air Cond Cool FW Pump		HLY-55MN	Heishin Pump Work
E1107	M/E LO Pump		SMK-200H	Heishin Pump Work
E1109	M/E FO Supply Pump		TG50-602T	Heishin Pump Work
E1111	M/E FO Circ.Pump		TG80-702T	Heishin Pump Work
E1113	Boiler Feed Water Pump		WYU-12XF	Heishin Pump Work
E1118	Boiler Water Circ Pump		CY-12GN	Heishin Pump Work
E1123	Fresh Water Pump		HLY-5LN	Heishin Pump Work
E1125	Drinking Water Pump		HLY-5LN	Heishin Pump Work
E1127	Fire & G.S Pump		RDY-150R	Heishin Pump Work
E1128	Fire, Bilge & Ballast Pump		RDY-150R	Heishin Pump Work

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A.12 Stores List

IHI MARU (Engine) Date : 12/15/2011

Stores List ABC Company

Code	Name
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AFS	"A" DECK FIRE STATION
ER1	ENGINE ROOM
LVR	LIVING ROOM

A.13 Suppliers List

IHI MARU (Engine) Date : 12/15/2011

Suppliers List ABC Company

Code	Name	PIC	E-Mail	TEL	FAX	Address
IMC	IHI Marine Co., Ltd.	Mr. ○○	XXX@IMC.co.jp	+81-3-xxxx-xxxx	+81-3-xxxx-xxxx	
ABC	ABC Company	Ms. △△		02-xxxxxxxx	02-xxxxxxxx	