

# VBA SOURCE CODE BOOK

## AUTO WORKSHOP MANAGER

**AUTO WORKSHOP MANAGER**

**TODAY'S ORDERS** CLEAR

Customer Jobs

Customer	Vehicle	Status
Mary Badger	Volkswagen Jetta	Pending
Nancy Smith	Porsche 911	In Progress
John J. James	Toyota Camry	In Progress
Jackie Tubman	Honda Civic	In Progress
Lisa Perkins	Kia Optima	In Progress
Nancy Smith	Tesla Model M	In Progress
Dolore Richard	Ford Mustang	In Progress
John J. James	Subaru Outback	Completed

**IN PROGRESS AUTO BAYS**

DAY 1: Dolore Richard - Red Ford Mustang

DAY 2: Nancy Smith - Green Porsche 911

DAY 3: Lisa Perkins - White Kia Optima

DAY 4: John J. James - Gray Toyota Camry

DAY 5: Jackie Tubman - Blue Honda Civic

John J. James - Yellow Toyota

Nancy Smith - Orange Tesla Model

**CUSTOMER DETAILS**

Sel. Customer: Mary Badger

Name: Mary Badger

Address 1: xxxx Street

Address 2: Anytown, LA xxxxx

Email: xxxxxx@gmail.com

Phone 1: xxx-xxx-xxxx

Phone 2: xxx-xxx-xxxx

VEHICLE DETAILS

Vehicle 1: Yellow BMW 3 Series

Vehicle 2: Yellow Volkswagen Jetta

Vehicle 3:

Vehicle 4:

Model: Volkswagen Jetta

Color: Yellow

Lic/VIN #: KLMT89

Vehicle Notes: Volkswagen Jetta Notes

**VEHICLE ISSUES/MAINTENANCE**

Veh. Issue 1: Engine Warning

Veh. Issue 2:

Veh. Issue 3:

Veh. Issue 4:

**VEHICLE PICTURES**

Engine5.png

Engine6.png

Engine7.png

Engine8.png

**ORDER DETAILS**

Service Date: 2/7/2024

Type: Quote

Order Status: Pending

Day #:

Pay Type: Visa

Pay Amount:

Manager: Frida Fredders

**SERVICE TECHNICIANS**

Technician 1:

Technician 2:

Technician 3:

Technician 4:

**TIME & BILLING DETAILS**

Start Time:

Finish Time:

Labor Markup: 45.00%

Parts Markup: 55.00%

**ORDER SUMMARY**

Item	Amount
Billed Labor	\$ 78.30
Billed Parts	\$ 155.00
Total Billed	\$ 233.30
Labor Costs	\$ 54.00
Parts Costs	\$ 100.00
Total Costs	\$ 154.00
Total Profit	\$ 101.46

**QUOTE**

Customer: Mary Badger

Order # 8

Order Date: 2/7/2024

Day #

Vehicle Engine Warning

Type	Part/Tech.	Part/Labor Description	Qty/Hrs	Amount	Total
Part		Starter motor Remove & Replace Starter motor	1.00	\$155.00	\$ 155.00
Labor	Peter Parker	Labor Service Performed	1.00	\$78.30	\$ 78.30

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Item	Amount
Subtotal	\$ 233.30
GST(0.50%)	\$ 22.16
Total	\$ 255.46
Payment:	



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by: Randy Austin

# ABOUT THE AUTHOR

A 4-time Microsoft MVP & lifetime Excel enthusiast, Randy Austin founded Excel For Freelancers in 2017. Excel For Freelancers quickly became the most prominent resource Excel for developers to learn how to turn their passion for Excel into profits by building & selling their own excel-based applications for passive & recurring income.

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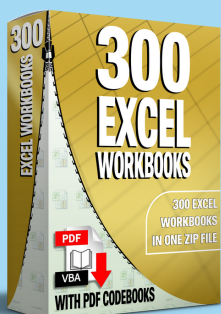
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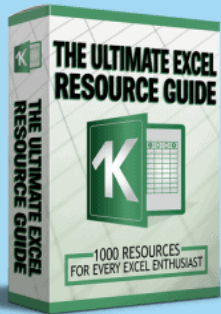
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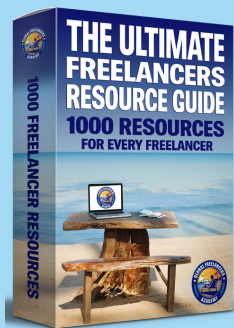
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1  
2

Option Explicit

```

1 Option Explicit
2
3 Private Sub Worksheet_Change(ByVal Target As Range)
4     'On Search Order Change
5     If Not Intersect(Target, Range("E4" )) Is Nothing Then Orders_List
6
7     'On Customer Change, Load Customer (On Order Load as well)
8     If Not Intersect(Target, Range("L3" )) Is Nothing And Range("L3" ).Value <> Empty
9     Then
10        If Range("B7" ).Value = Empty Then
11            MsgBox "Please select a customer from the list or enter a new customer"
12            Exit Sub
13        End If
14        Customer_Load 'Run Macro to load customer
15        Vehicle_LoadCustVehicles 'Run Macro to load Customer Vehicles
16    End If
17
18    'On Item Type Change, update Parts or Labor Data Validation (But not on order Load)
19
20    If Not Intersect(Target, Range("Q9:Q33" )) Is Nothing And Range("Q" & Target.Row).
21    Value <> Empty And Range("B1" ).Value = False Then
22        'On Part Type
23        Range("R" & Target.Row).Validation.Delete 'Clear Validation (Item Details, Qty,
24        Amount & Cost)
25        Range("R" & Target.Row & ":U" & Target.Row).ClearContents 'Clear Item Details
26        Range("W" & Target.Row).ClearContents 'Clear item cost
27        If Target.Value = "Part" Then
28            Range("R" & Target.Row).Validation.Add Type:=xlValidateList, AlertStyle:=
29            xlValidAlertStop, Operator:=xlBetween, Formula1:="=Parts_Name"
30        Else:
31            Range("R" & Target.Row).Validation.Add Type:=xlValidateList, AlertStyle:=
32            xlValidAlertStop, Operator:=xlBetween, Formula1:="=Tech_Name"
33        End If
34    End If
35
36    'On Item Name Change add Part/Labor Details, Costs & Amounts
37    If Not Intersect(Target, Range("R9:R33" )) Is Nothing And Range("R" & Target.Row).
38    Value <> Empty And Range("B1" ).Value = False Then
39        If Range("Q" & Target.Row).Value = "Part" Then 'On Part Item Change
40            Dim PartRow As Long
41            On Error Resume Next
42            PartRow = PartsDB.Range("Parts_Name" ).Find(Target.Value, , xlValues, xlWhole)
43            .Row
44            On Error GoTo 0
45            If PartRow = 0 Then Exit Sub
46            Range("S" & Target.Row).Value = PartsDB.Range("C" & PartRow).Value
47            'Description
48            Range("U" & Target.Row).Value = "=W" & Target.Row & "+(W" & Target.Row &
49            "*PartsMarkup)"
50            Range("W" & Target.Row).Value = PartsDB.Range("D" & PartRow).Value 'Cost
51        Else 'Labor
52            Dim TechRow As Long
53            On Error Resume Next
54            TechRow = TechDB.Range("Tech_Name" ).Find(Target.Value, , xlValues, xlWhole).
55            Row
56            On Error GoTo 0
57            If TechRow = 0 Then Exit Sub
58            Range("S" & Target.Row).Value = "Labor Service Performed" 'Description
59            Range("U" & Target.Row).Value = "=W" & Target.Row & "+(W" & Target.Row &
60            "*LaborMarkup)"
61        End If
62    End If
63 End Sub

```

1 2 3



```

1 2 3
50 Range("W" & Target.Row).Value = TechDB.Range("D" & TechRow).Value 'Cost
51 End If
52 Range("T" & Target.Row).Value = 1 'Set Default Qty
53 End If
54
55 'On Bay Change, Check For Occupied Bay
56 If Not Intersect(Target, Range("O5,O6" )) Is Nothing And Range("O6" ).Value <> Empty
57 And Range("B1" ).Value = False And Range("B12" ).Value = True Then
58     MsgBox Range("O6" ).Value & " is already occupied. Please locate an empty " & [
59     areaname]
60     Range("O6" ).ClearContents
61 End If
62
63 End Sub
64
65 Private Sub Worksheet_SelectionChange(ByVal Target As Range)
66     If Target.CountLarge > 1 Then Exit Sub
67     'On Order Selection
68     If Not Intersect(Target, Range("D7:F9999" )) Is Nothing And Range("D" & Target.Row)
69     .Value <> Empty Then
70     Range("B2" ).Value = Range("C" & Target.Row).Value 'Set Order ID
71     Order_Load 'Run macro to load order
72 End If
73
74 'On Vehicle Selection, load Vehicle (but not on Order Load)
75 If Not Intersect(Target, Range("L12:L15" )) Is Nothing And Range("L" & Target.Row).
76 Value <> Empty And Range("B1" ).Value = False Then
77     Range("B18" ).Value = Range("M" & Target.Row).Value 'Set Vehicle ID
78     Vehicle_Load 'Run Macro To load Vehicle
79 End If
80
81 'On Vehicle Picture Selection
82 If Not Intersect(Target, Range("K30:K36" )) Is Nothing And Range("K" & Target.Row).
83 Value <> Empty Then
84     Range("B29" ).Value = Target.Row
85     Vehicle_ShowPicture 'Run Macro to display picture
86 End If
87 End Sub

```



1 Option Explicit

2

1	Option Explicit
2	

1	Option Explicit
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1 Option Explicit  
2

1 Option Explicit

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1 Option Explicit

2

1  
2

Option Explicit



```

1 Option Explicit
2 Dim CustRow As Long, CustCol As Long
3 Sub Customer_Clear()
4     AutoWS.Range("L3:L9").ClearContents
5     AutoWS.Range("L4").Select
6 End Sub
7
8 Sub Customer_Delete()
9     If MsgBox("Are you sure you want to delete this Customer?", vbYesNo, "Delete
10     Customer" ) = vbNo Then Exit Sub
11     With AutoWS
12         If .Range("B7").Value = Empty Then GoTo SkipDel
13         CustRow = .Range("B7").Value
14         CustomerDB.Range(CustRow & ":" & CustRow).EntireRow.Delete
15     End With
16     SkipDel:
17     Customer_Clear 'Clear Customer Fields
18     Customer_ListRefresh 'Update Customer List
19 End Sub
20
21 Sub Customer_ListRefresh()
22     Dim LastRow As Long
23     With CustomerDB
24         .Range("J2:J999").ClearContents 'Clear existing sorted customer list
25         LastRow = .Range("A99999").End(xlUp).Row
26         If LastRow < 4 Then Exit Sub
27         .Range("J2:J" & LastRow - 2).Value = .Range("B4:B" & LastRow).Value 'Copy
28         Customersm
29     With .Sort
30         .SortFields.Clear
31         .SortFields.Add Key:=CustomerDB.Range("J2"), SortOn:=xlSortOnValues, Order:=
32         xlAscending, DataOption:=xlSortNormal 'Sort
33     .SetRange CustomerDB.Range("J2:J" & LastRow - 2) 'Set Range
34     .Apply 'Apply Sort
35 End With
36 End With
37 End Sub
38
39 Sub Customer_Load()
40     With AutoWS
41         If .Range("B7").Value = Empty Then
42             MsgBox "Please make sure to enter a correct customer"
43             Exit Sub
44         End If
45         CustRow = .Range("B7").Value
46         For CustCol = 2 To 7
47             .Range("L" & CustCol + 2).Value = CustomerDB.Cells(CustRow, CustCol).Value
48             'Load Customer Details
49         Next CustCol
50     End With
51 End Sub
52
53 Sub Customer_SavedMsg()
54     With AutoWS.Shapes("CustomerSavedMsg")
55         Dim i As Long, Delay As Double, StartTime As Double
56         .Visible = msoCTrue
57         For i = 1 To 75
58             .Fill.Transparency = i / 75
59             Delay = 0.005
60             StartTime = Timer
61         Do

```

1 2 3 4

```
58     1 2 3 4 DoEvents
59     Loop While Timer - StartTime < Delay
60     Next i
61     .Visible = msoFalse
62     End With
63 End Sub
64
65 Sub Customer_SaveUpdate()
66     With AutoWS
67         If .Range("L4").Value = "" Then
68             MsgBox "Please make sure to add a Customer Name before saving"
69             Exit Sub
70         End If
71         If .Range("B7").Value = Empty Then 'New Customer
72             CustRow = CustomerDB.Range("A9999").End(xlUp).Row + 1
73             CustomerDB.Range("A" & CustRow).Value = .Range("B8").Value 'Customer ID
74         Else 'Existing Customer
75             CustRow = .Range("B7").Value
76         End If
77         For CustCol = 2 To 7
78             CustomerDB.Cells(CustRow, CustCol).Value = .Range("L" & CustCol + 2).Value
79             'Save Customer Details
80         Next CustCol
81     End With
82     Customer_ListRefresh 'Update Customer List
83     Customer_SavedMsg 'Customer Saved Fade Out message
84 End Sub
```

```

1 Option Explicit
2 Dim OrderRow As Long, OrderCol As Long, ItemRow As Long, LastRow As Long, LastItemRow
  As Long, ItemDBRow As Long, ItemDBCol As Long
3 Dim LastResultRow As Long, ResultRow As Long, VehRow As Long
4
5 Sub Order_AddNew()
6     With AutoWS
7         .Range("B1" ).Value = True 'Set Order Load To True
8         .Range(
9             "B2,B18,B29,L3:L9,L12:L15,L17:M20,L23:L26,J30:K36,O3:O9,O12:O15,O18:O21,Q9:U33,W9:
10            W33,Y9:Y33" ).ClearContents
11         .Range("B2" ).Value = .Range("B4" ).Value 'Next Order ID
12         .Range("O3" ).Value = Date 'Set Service Date
13         .Range("O4" ).Value = Admin.Range("E16" ).Value 'Order Type
14         .Range("O5" ).Value = Admin.Range("E17" ).Value 'Order Status
15         .Range("O7" ).Value = Admin.Range("E18" ).Value 'Payment Type
16         .Range("O9" ).Value = Admin.Range("E19" ).Value 'Manager
17         .Range("O20" ).Value = Admin.Range("E12" ).Value 'Default Labor Markup
18         .Range("O21" ).Value = Admin.Range("E13" ).Value 'Default Parts Markup
19         .Range("R9:R33" ).Validation.Delete 'Clear Part/Tech Validation
20         On Error Resume Next
21         .Shapes("VehPic" ).Delete 'Remove any Vehicle Picture
22         On Error GoTo 0
23         .Range("B1" ).Value = False 'Set Order Load To False
24     End With
25 End Sub
26
27 Sub Order_AutoBayRefresh()
28     Dim VehPic As Shape
29     Dim BayNumb As Long, BayItemNumb As Long
30     Dim BayName As String, VehColor As String, CustName As String, VehModel As String,
  OrdID As String
31     With AutoWS
32         'Remove Vehicle Bay Pictures
33         For Each VehPic In .Shapes
34             If InStr(VehPic.Name, "VehPicBayOrd" ) > 0 Then VehPic.Delete
35         Next VehPic
36         Set VehPic = Nothing 'Clear Object
37         'Clear Vehicle Bay Text
38         For BayNumb = 1 To 10
39             .Shapes("TextShpBay" & BayNumb).TextFrame2.TextRange.Text = "" 'Clear Text
40         Next BayNumb
41         'Load Orders 'In Progress'
42         With OrderDB
43             LastRow = .Range("A99999" ).End(xlUp).Row
44             If LastRow < 4 Then Exit Sub
45             .Range("A3:P" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
46                 "AR2:AR3" ), CopyToRange:=.Range("AU2:AY2" ), Unique:=True
47             LastResultRow = .Range("AU99999" ).End(xlUp).Row
48             If LastResultRow < 3 Then Exit Sub
49             For ResultRow = 3 To LastResultRow
50                 OrdID = .Range("AU" & ResultRow).Value 'Order ID
51                 CustName = .Range("AV" & ResultRow).Value 'Customer Name
52                 VehModel = .Range("AW" & ResultRow).Value 'Vehicle Model
53                 VehColor = .Range("AX" & ResultRow).Value 'Vehicle Color
54                 BayName = .Range("AY" & ResultRow).Value 'Assigned Bay
55                 On Error Resume Next
56                 BayItemNumb = Admin.Range("AutoBays" ).Find(BayName, , xlValues, xlWhole).
57                 Row - 6 'Get Bay Item Numb
58                 On Error GoTo 0
59                 If BayItemNumb = 0 Then GoTo NextResult

```

1 2 3 4

```

56     1 2 3 4 On Error Resume Next
57     Set VehPic = AutoWS.Shapes("Car_" & VehColor) 'Set Sample car shape
58     On Error GoTo 0
59     If VehPic Is Nothing Then GoTo SkipVehicle
60     VehPic.Duplicate.Name = "VehPicBayOrd" & OrdID
61     With AutoWS.Shapes("VehPicBayOrd" & OrdID)
62         .Left = AutoWS.Range("I3").Left + 32
63         .Top = AutoWS.Range("I" & 3 + ((BayItemNumb - 1) * 5)).Top - 24
64         .OnAction = "Vehicle_Select"
65     End With
66     SkipVehicle:
67     AutoWS.Shapes("TextShpBay" & BayItemNumb).TextFrame2.TextRange.Text =
68     CustName & " - " & VehColor & " " & VehModel
69     NextResult:
70     Next ResultRow
71 End With
72 End Sub

73
74 Sub Order_ClearFilter()
75     AutoWS.Range("E3:F4").ClearContents
76 End Sub

77
78
79 Sub Order_Delete()
80     With AutoWS
81         If MsgBox("Are you sure you want to delete this order?" , vbYesNo, "Delete
82         Order" ) = vbNo Then Exit Sub
83         If .Range("B3").Value = Empty Then GoTo NotSaved
84         OrderRow = .Range("B3").Value
85         Application.ScreenUpdating = False
86         OrderDB.Range(OrderRow & ":" & OrderRow).EntireRow.Delete
87
88         'Delete Order Items
89         With OrderItemsDB
90             LastRow = .Range("A99999").End(xlUp).Row
91             If LastRow < 4 Then GoTo NoItems
92             .Range("A3:K" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
93             "R2:R3" ), CopyToRange:=.Range("X2:AE2" ), Unique:=True
94             LastResultRow = .Range("X99999").End(xlUp).Row
95             If LastResultRow < 3 Then GoTo NoItems
96
97             For ResultRow = 3 To LastResultRow
98                 ItemDBRow = .Range("AD" & ResultRow).Value 'Item DB Row
99                 .Range("A" & ItemDBRow & ":K" & ItemDBRow).ClearContents 'Clear Item
100                Details
101            Next ResultRow
102            'Resort List to Clear empty rows
103            With .Sort
104                .SortFields.Clear
105                .SortFields.Add Key:=OrderItemsDB.Range("A4" ), SortOn:=xlSortOnValues,
106                Order:=xlAscending, DataOption:=xlSortNormal 'Sort
107            .SetRange OrderItemsDB.Range("A4:K" & LastRow) 'Set Range
108            .Apply 'Apply Sort
109            End With
110        End With
111        NoItems:
112        NotSaved:
113        Orders_List 'Reload List
114        Order_AddNew

```

```

1 2
112 Application.ScreenUpdating = False
113 End With
114 End Sub
115
116 Sub Order_ListTodaysJobs()
117 AutoWS.Range("E3").Value = "Service Date"
118 AutoWS.Range("E4").Value = Date 'Current Date
119 End Sub
120 Sub Order_Load()
121 With AutoWS
122 .Range("B1").Value = True 'Set Order Load to True
123 .Range(
" B18,B29,L3:L9,L12:L15,L17:M20,L23:L26,J30:K36,03:09,012:015,018:021,Q9:U33,W9:W33
,Y9:Y33").ClearContents
124 .Range("R9:R33").Validation.Delete 'Clear Part/Tech Validation
125 On Error Resume Next
126 .Shapes("VehPic").Delete 'Delete any vehicle picture
127 On Error GoTo 0
128 If .Range("B3").Value = Empty Then
129 MsgBox "Please enter a correct Order # to load"
130 .Range("B1").Value = False 'Set Order Load to False
131 Exit Sub
132 End If
133 OrderRow = .Range("B3").Value 'Order DB Row
134 Application.ScreenUpdating = False
135 For OrderCol = 3 To 27 '(Exclude Cust ID & Totals & Payment Amount which are
calculated)
136 .Range(OrderDB.Cells(1, OrderCol).Value).Value = OrderDB.Cells(OrderRow,
OrderCol).Value 'Bring over order data
137 Next OrderCol
138 End With
139 'Load Items
140 With OrderItemsDB
141 LastRow = .Range("A99999").End(xlUp).Row
142 If LastRow < 4 Then GoTo SkipItems
143 .Range("A3:K" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
"R2:R3"), CopyToRange:=.Range("X2:AE2"), Unique:=True
144 LastResultRow = .Range("X99999").End(xlUp).Row
145 If LastResultRow < 3 Then GoTo SkipItems
146 For ResultRow = 3 To LastResultRow
147 ItemRow = .Range("AE" & ResultRow).Value 'Item Row
148 AutoWS.Range("Q" & ItemRow & ":U" & ItemRow).Value = .Range("X" & ResultRow
& ":AB" & ResultRow).Value 'Product ID, Name, Qty & Amount
149 AutoWS.Range("W" & ItemRow).Value = .Range("AC" & ResultRow).Value 'Item
Cost
150 AutoWS.Range("Y" & ItemRow).Value = .Range("AD" & ResultRow).Value 'DB Row
151
152 'Update Part/Labor Validation
153 If .Range("X" & ResultRow).Value = "Part" Then
154 AutoWS.Range("R" & ItemRow).Validation.Add Type:=xlValidatelist,
AlertStyle:=xlValidAlertStop, Operator:=xlBetween, Formula1:="=Parts_Name"
155 Else: 'Labor
156 AutoWS.Range("R" & ItemRow).Validation.Add Type:=xlValidatelist,
AlertStyle:=xlValidAlertStop, Operator:=xlBetween, Formula1:="=Tech_Name"
157 End If
158 Next ResultRow
159 SkipItems:
160 End With
161
162 Vehicle_LoadCustVehicles 'Load Customer Vehicles (if any)

```

1

```

1
163
164 'Load Selected Vehicle
165 If AutoWS.Range("B19").Value = Empty Then GoTo SkipVehicle
166 'Load Vehicle Details
167 'VehRow = AutoWS.Range("B19").Value
168 'With VehicleDB
169 '     AutoWS.Range("L17").Value = .Range("C" & VehRow).Value 'Model
170 '     AutoWS.Range("L18").Value = .Range("D" & VehRow).Value 'Color
171 '     AutoWS.Range("L19").Value = .Range("E" & VehRow).Value 'Lic/VIN #
172 '     AutoWS.Range("L20").Value = .Range("F" & VehRow).Value 'Notes
173 'End With
174
175 'Load Pictures (if any)
176 If AutoWS.Range("B18").Value = Empty Then GoTo NoPics
177 With PicDB
178     LastRow = .Range("A99999").End(xlUp).Row
179     If LastRow < 4 Then GoTo NoPics
180     .Range("A3:C" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
181         "G2:G3" ), CopyToRange:=.Range("I2:J2" ), Unique:=True
182     LastResultRow = .Range("I99999").End(xlUp).Row
183     If LastResultRow < 3 Then GoTo NoPics
184     AutoWS.Range("J30:K36").Value = .Range("I3:J9").Value 'Copy over Row & picture
185     name
186     NoPics:
187     SkipVehicle:
188     Application.ScreenUpdating = True
189     AutoWS.Range("B1").Value = False 'Set Order Load to False
190 End Sub
191
192 Sub Order_Print()
193     AutoWS.PrintOut , , , , True, , , False
194 End Sub
195
196 Sub Order_SavedMsg()
197     With AutoWS.Shapes("OrderSavedMsg" )
198         Dim i As Long, Delay As Double, StartTime As Double
199         .Visible = msoCTrue
200         For i = 1 To 75
201             .Fill.Transparency = i / 75
202             Delay = 0.005
203             StartTime = Timer
204             Do
205                 DoEvents
206             Loop While Timer - StartTime < Delay
207         Next i
208         .Visible = msoFalse
209     End With
210 End Sub
211
212 Sub Order_SaveUpdate()
213     With AutoWS
214         'Check For required Customer, Vehicle & Status
215         If .Range("B7").Value = Empty Then
216             MsgBox "Please select or add a customer to save this order"
217             Exit Sub
218         End If
219         If .Range("B19").Value = Empty Then
220             MsgBox "Please select or add a vehicle to save this order"
221             Exit Sub

```

1 2 3

```

1 2 3
222 End If
223 If .Range("O5" ).Value = Empty Then
224     MsgBox "Please make sure to add an Order Status before saving"
225     Exit Sub
226 End If
227 If .Range("B12" ).Value = True Then 'Conflicting Bay
228     MsgBox "It appears that " & .Range("O6" ).Value & " is already in progress.
        Pleas select another " & [areaname] & " or change the order status"
229     Exit Sub
230 End If
231
232 Application.ScreenUpdating = False
233 If .Range("B3" ).Value = Empty Then 'New Order
234     OrderRow = OrderDB.Range("A99999" ).End(xlUp).Row + 1
235     .Range("B2" ).Value = .Range("B4" ).Value 'Next Order ID
236     OrderDB.Range("A" & OrderRow).Value = .Range("B2" ).Value 'Next Order ID
237 Else 'Existing Order
238     OrderRow = .Range("B3" ).Value 'Existing Order DB Row
239 End If
240 For OrderCol = 2 To 28 'Include Order total
241     OrderDB.Cells(OrderRow, OrderCol).Value = .Range(OrderDB.Cells(1, OrderCol).
        Value).Value 'Save order data
242 Next OrderCol
243
244 'Save/Udpate Items
245 LastItemRow = .Range("R34" ).End(xlUp).Row
246 If LastItemRow < 9 Then GoTo NoItems
247 For ItemRow = 9 To LastItemRow
248     If .Range("Y" & ItemRow).Value = Empty Then 'New Item DB
249         ItemDBRow = OrderItemsDB.Range("A9999" ).End(xlUp).Row + 1 'First avail
            Row
250         OrderItemsDB.Range("A" & ItemDBRow).Value = .Range("B2" ).Value 'Order #
251         OrderItemsDB.Range("J" & ItemDBRow).Value = ItemRow 'Set Item Row
252         OrderItemsDB.Range("K" & ItemDBRow).Value = "=Row()" 'Database row
            formula
253         .Range("Y" & ItemRow).Value = ItemDBRow
254     Else 'Existing
255         ItemDBRow = .Range("Y" & ItemRow).Value 'Existing Order Items DB Row
256     End If
257     OrderItemsDB.Range("B" & ItemDBRow & ":I" & ItemDBRow).Value = .Range("Q" &
        ItemRow & ":X" & ItemRow).Value 'Save Item Details
258 Next ItemRow
259 NoItems:
260 Orders_List 'Reload List
261 Order_AutoBayRefresh 'Reload Auto Bays
262 Application.ScreenUpdating = True
263 Order_SavedMsg
264 End With
265 End Sub
266
267 Sub Order_TypeChange()
268     If AutoWS.Range("B9" ).Value = 1 Then AutoWS.Range("O4" ).Value = "Quote" Else
        AutoWS.Range("O4" ).Value = "Sales Order"
269 End Sub
270
271 Sub Orders_List()
272     AutoWS.Range("C7:F9999" ).ClearContents 'Clear out existing order list
273     With OrderDB
274         LastRow = .Range("A99999" ).End(xlUp).Row
275         If LastRow < 4 Then Exit Sub
276         .Range("A3:AB" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(

```

1 2



```
1 2
277 "AG2:AH3" ), CopyToRange:=.Range("AK2:AN2" ), Unique:=True
278 LastResultRow = .Range("AK99999" ).End(xlUp).Row
279 If LastResultRow < 3 Then Exit Sub
280 If LastResultRow < 4 Then GoTo SkipSort
281 With .Sort
282     .SortFields.Clear
283     .SortFields.Add Key:=OrderDB.Range("AK3" ), SortOn:=xlSortOnValues, Order:=
xlDescending, DataOption:=xlSortNormal 'Sort
284     .SetRange OrderDB.Range("AK3:AN" & LastResultRow) 'Set Range
285     .Apply 'Apply Sort
286 End With
287 SkipSort:
288 AutoWS.Range("C7:F" & LastResultRow + 4).Value = .Range("AK3:AN" &
LastResultRow).Value
289 End With
290 End Sub
291
292 Sub Vehicle_Select()
293 On Error Resume Next
294 AutoWS.Range("B2" ).Value = Replace(Application.Caller, "VehPicBayOrd" , "" )
'Extract Order ID
295 Order_Load
296 On Error GoTo 0
End Sub
```

```

1 Option Explicit
2 Dim VehRow As Long, VehCol As Long, LastRow As Long, LastResultRow As Long
3
4 Sub Vehicle_Clear()
5     AutoWS.Range("B18,L17:L20").ClearContents
6     AutoWS.Range("L17").Select
7 End Sub
8
9 Sub Vehicle_Delete()
10    If MsgBox("Are you sure you want to delete this Vehicle?" , vbYesNo, "Delete
11    Vehicle" ) = vbNo Then Exit Sub
12    With AutoWS
13        If .Range("B19").Value = Empty Then GoTo SkipDel
14        VehRow = .Range("B19").Value
15        VehicleDB.Range(VehRow & ":" & VehRow).EntireRow.Delete
16    End With
17    SkipDel:
18    Vehicle_Clear 'Clear Vehicle Fields
19    Vehicle_LoadCustVehicles 'Update Vehicle List
20 End Sub
21
22 Sub Vehicle_Load()
23    With AutoWS
24        If .Range("B19").Value = Empty Then
25            MsgBox "Please make sure to enter a correct Vehicle"
26            Exit Sub
27        End If
28        VehRow = .Range("B19").Value 'Vehicle Row
29        For VehCol = 3 To 6
30            .Range("L" & VehCol + 14).Value = VehicleDB.Cells(VehRow, VehCol).Value
31            'Load Vehicle Details
32        Next VehCol
33    End With
34    Vehicle_LoadPictures 'Load Vehicle Pictures
35 End Sub
36
37 Sub Vehicle_LoadCustVehicles()
38    If AutoWS.Range("B6").Value = "" Then Exit Sub 'Exit On No Customer ID
39    With VehicleDB
40        LastRow = .Range("A9999").End(xlUp).Row
41        If LastRow < 4 Then GoTo NoVehicles
42        .Range("A3:E" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
43        "K2:K3" ), CopyToRange:=.Range("M2:O2" ), Unique:=True
44        LastResultRow = .Range("M9999").End(xlUp).Row
45        If LastResultRow < 3 Then GoTo NoVehicles
46        AutoWS.Range("L12:L15").Value = .Range("P3:P6").Value 'Copy Over Color & Model
47        AutoWS.Range("M12:M15").Value = .Range("M3:M6").Value 'Vehicle ID's
48    End With
49    NoVehicles:
50 End Sub
51
52 Sub Vehicle_SavedMsg()
53    With AutoWS.Shapes("VehicleSavedMsg")
54        Dim i As Long, Delay As Double, StartTime As Double
55        .Visible = msoCTrue
56        For i = 1 To 75
57            .Fill.Transparency = i / 75
58            Delay = 0.005
59        Next i
60    End With
61 End Sub

```

1 2 3

```
58 | 1 2 3 | StartTime = Timer
59 | | Do
60 | | DoEvents
61 | | Loop While Timer - StartTime < Delay
62 | | Next i
63 | | .Visible = msoFalse
64 | | End With
65 | End Sub
66 |
67 | Sub Vehicle_SaveUpdate()
68 | With AutoWS
69 | If .Range("L17").Value = "" Or .Range("L18").Value = Empty Then
70 | MsgBox "Please make sure to add a Vehicle Model and Color before saving"
71 | Exit Sub
72 | End If
73 | If .Range("B19").Value = Empty Then 'New Vehicle
74 | VehRow = VehicleDB.Range("A9999").End(xlUp).Row + 1
75 | .Range("B18").Value = .Range("B20").Value 'Next Vehicle ID
76 | VehicleDB.Range("A" & VehRow).Value = .Range("B20").Value 'Vehicle ID
77 | VehicleDB.Range("B" & VehRow).Value = .Range("B6").Value 'Customer ID
78 |
79 | Else 'Existing Vehicle
80 | VehRow = .Range("B19").Value
81 | End If
82 | For VehCol = 3 To 6
83 | VehicleDB.Cells(VehRow, VehCol).Value = .Range("L" & VehCol + 14).Value
84 | 'Save Vehicle Details
85 | Next VehCol
86 | End With
87 | Vehicle_LoadCustVehicles 'Update Vehicle List
88 | Vehicle_SavedMsg 'Vehicle Saved Fade Out message
89 | End Sub
```

```

1 Option Explicit
2 Dim PicPath As String, PicFolder As String
3 Dim LastRow As Long, LastResultRow As Long, PicRow As Long, PicDBRow As Long
4
5
6 Sub BrowseForVehPicFolder()
7     Dim VehPicFolder As FileDialog
8     Set VehPicFolder = Application.FileDialog(msoFileDialogFolderPicker)
9     With VehPicFolder
10        .Title = "Browse For Vehicle Picture Folder"
11        .AllowMultiSelect = False
12        If .Show <> -1 Then GoTo NoSelection
13        Admin.Range("C2").Value = .SelectedItems(1)
14    End With
15    NoSelection:
16 End Sub
17
18
19 Sub Vehicle_AddPicture()
20     Dim VehPic As FileDialog
21     Dim PicRow As Long
22     If AutoWS.Range("B18").Value = Empty Then
23         MsgBox "Please make sure to select a vehicle before adding pictures"
24         Exit Sub
25     End If
26     AutoWS.Range("L23").Select 'Select Something other than a picture
27     Set VehPic = Application.FileDialog(msoFileDialogFilePicker)
28     PicFolder = [VehiclePicFolder]
29     If PicFolder = "" Or Dir(PicFolder, vbDirectory) = "" Then
30         BrowseForVehPicFolder
31         PicFolder = [VehiclePicFolder]
32         If PicFolder = "" Or Dir(PicFolder, vbDirectory) = "" Then Exit Sub
33     End If
34     With VehPic
35         .Title = "Select Item Picture"
36         .Filters.Add "Select Item Picture", "*.jpg, *.png, *.jpeg, *.giff", 1
37         If .Show <> -1 Then GoTo NoSelection
38         PicPath = PicFolder & "\" & Dir(.SelectedItems(1))
39         If .SelectedItems(1) = PicPath Then GoTo SkipCopy
40         If Dir(PicPath, vbDirectory) <> "" Then Kill (PicPath)
41         FileCopy .SelectedItems(1), PicPath 'Copy to new location
42         SkipCopy:
43     End With
44     'Add to Picture Database
45     With PicDB
46         PicRow = .Range("A99999").End(xlUp).Row + 1
47         .Range("A" & PicRow).Value = AutoWS.Range("B18").Value 'Set Vehicle ID
48         .Range("B" & PicRow).Value = Dir(PicPath) 'Set Picture Name
49         .Range("C" & PicRow).Value = "=Row()" 'Database Row
50     End With
51     Vehicle_LoadPictures 'Reload Pictures
52     AutoWS.Range("K30").Select 'Selct Picture To Display
53     NoSelection:
54 End Sub
55
56
57 Sub Vehicle_DeletePicture()
58     With AutoWS
59         If .Range("B29").Value = Empty Then
60             MsgBox "Please select a picture to remove"
61             Exit Sub

```

1 2 3

```

62   1 2 3   End If
63       PicRow = .Range("B29").Value
64       PicDBRow = .Range("J" & PicRow).Value 'Picture DB Row
65       PicDB.Range(PicDBRow & ":" & PicDBRow).EntireRow.Delete
66       .Range("B29").ClearContents
67       On Error Resume Next
68       AutoWS.Shapes("VehPic").Delete
69       On Error GoTo 0
70       Vehicle_LoadPictures 'Reload Pictures
71   End With
72 End Sub

73
74 Sub Vehicle_LoadPictures()
75     AutoWS.Range("J30:K36").ClearContents
76     On Error Resume Next
77     AutoWS.Shapes("VehPic").Delete 'Delete Any Picture
78     On Error GoTo 0
79     If AutoWS.Range("B18").Value = Empty Then Exit Sub 'Exit on no vehicle ID
80     With PicDB
81         LastRow = .Range("A99999").End(xlUp).Row
82         If LastRow < 4 Then Exit Sub
83         .Range("A3:C" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
84             "G2:G3"), CopyToRange:=.Range("I2:J2"), Unique:=True
85         LastResultRow = .Range("I99999").End(xlUp).Row
86         If LastResultRow < 3 Then Exit Sub
87         If LastResultRow < 4 Then GoTo NoSort
88         With .Sort
89             .SortFields.Clear
90             .SortFields.Add Key:=PicDB.Range("I3"), SortOn:=xlSortOnValues, Order:=
91                 xlDescending, DataOption:=xlSortNormal 'Sort
92             .SetRange PicDB.Range("I3:J" & LastResultRow) 'Set Range
93             .Apply 'Apply Sort
94         End With
95         NoSort:
96         AutoWS.Range("J30:K36").Value = .Range("I3:J9").Value 'Bring Over Max 7
97         Pictures
98     End With
99 End Sub

100 Sub Vehicle_OpenPicture()
101     With AutoWS
102         If .Range("B29").Value = Empty Then
103             MsgBox "Please select a picture to open"
104             Exit Sub
105         End If
106         PicRow = .Range("B29").Value
107         PicFolder = [VehiclePicFolder] 'Vehicle Picture Folder (if any)
108         PicPath = PicFolder & "\" & .Range("K" & PicRow).Value 'Picture path
109         On Error Resume Next
110         If Dir(PicPath, vbDirectory) = "" Then Exit Sub
111         ThisWorkbook.FollowHyperlink PicPath
112     End With
113 End Sub

114
115 Sub Vehicle_ShowPicture()
116     With AutoWS
117         If .Range("B29").Value = Empty Then
118             MsgBox "Please select a picture to display"
119             Exit Sub

```

```
120      End If
121      PicRow = .Range("B29").Value
122      PicFolder = [VehiclePicFolder] 'Vehicle Picture Folder (if any)
123      On Error Resume Next
124      AutoWS.Shapes("VehPic").Delete 'Delete any picture if it exists
125      On Error GoTo 0
126      PicPath = PicFolder & "\" & .Range("K" & PicRow).Value 'Picture path
127      On Error Resume Next
128      If Dir(PicPath, vbDirectory) = "" Then Exit Sub
129      On Error GoTo 0
130      .Pictures.Insert(PicPath).Name = "VehPic"
131      With .Shapes("VehPic")
132          .LockAspectRatio = msoCTrue
133          If .Width > .Height Then .Width = 105 Else .Height = 90
134          .Left = AutoWS.Range("L30").Left + (AutoWS.Range("L:L").Width - .Width) / 2
135          .Top = AutoWS.Range("L30").Top + (AutoWS.Range("30:36").Height - .Height) / 2
136      End With
137      End With
138      End Sub
```

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# Thank You!

This source code was created and made available to help you gain a better understanding of how VBA is used to create amazing Excel-based applications.

Thank you so much for your continued shares, likes and support. It really helps.



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