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| **Test Case:** TC |
| **Description:** |
| **Steps:** |
| **Expected Result:** |
| **Pass/Fail:** |

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| **Test Case:** TC1 |
| **Description:** Test data validation |
| **Steps:**  Leave asset number blank  Leave tune type blank  Leave tune date at default  Leave entry date ate default  Leave staff blank  Leave notes blank  Press Save |
| **Expected Result:**  Asset number/tune type/staff error labels appear |
| **Pass/Fail:** Pass |

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| **Test Case:** TC2 |
| **Description:** Test data validation |
| **Steps:**  Enter 12345 in Asset Number  Leave tune type blank  Leave tune date at default  Leave entry date ate default  Leave staff blank  Leave notes blank  Press Save |
| **Expected Result:**  Tune type/staff error labels appear |
| **Pass/Fail:** Pass |

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| **Test Case:** TC3 |
| **Description:** Test data validation |
| **Steps:**  Enter 12345 in Asset Number  Select any tune type  Leave tune date at default  Leave entry date ate default  Leave staff blank  Leave notes blank  Press Save |
| **Expected Result:**  Staff error labels appear |
| **Pass/Fail:** Pass |

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| **Test Case:** TC4 |
| **Description:** Test data validation |
| **Steps:**  Enter 12345 in Asset Number  Select any tune type  Leave tune date at default  Leave entry date ate default  Select any staff member  Leave notes blank  Press Save |
| **Expected Result:**  No errors appear.  Tune is saved to tune list. |
| **Pass/Fail:** Pass |

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| **Test Case:** TC5 |
| **Description:** Test clearing input data |
| **Steps:**  Enter 12345 in Asset Number  Select any tune type  Leave tune date at default  Leave entry date ate default  Select any staff member  Enter any data in Notes  Press Clear |
| **Expected Result:**  Asset number returns to blank  Tune type returns to blank  Tune date doesn’t change  Entry date doesn’t change  Staff returns to blank  Notes/Parts returns to blank |
| **Pass/Fail:** Pass |

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| **Test Case:** TC6 |
| **Description:** Test clearing input data |
| **Steps:**  Asset Number: Blank  Tune Type: Blank  Tune Date: Default  Entry Date: Default  Staff: Blank  Notes/Parts: Blank  Press Save  Press Clear |
| **Expected Result:**  3 error labels appear  3 error labels disappear |
| **Pass/Fail:** Pass |

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| **Test Case:** TC7 |
| **Description:** Test saving valid data |
| **Steps:**  Enter 12345 in Asset Number  Select any tune type  Set tune date to November 1, 2015  Entry date: default  Select any staff member  Enter anything into notes  Press Save |
| **Expected Result:**  No errors appear.  Tune is saved to tune list.  Tune Type: No change  Focus returns to asset number  Tune date: November 1, 2015  Staff doesn’t change  Notes/Parts: Empty |
| **Pass/Fail:** Pass |

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| **Test Case:** TC8 |
| **Description:** Test saving valid data |
| **Steps:**  Asset Number: 12345  Select any tune type  Tune date: November 1, 2015  Entry date: default  Select any staff member  Enter anything into notes  Press Return in Notes/Parts |
| **Expected Result:**  No errors appear.  Tune is saved to tune list.  Focus returns to asset number  Tune Type: No Change  Tune date: November 1, 2015  Staff doesn’t change  Notes/Parts: Empty |
| **Pass/Fail:** Pass |

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| **Test Case:** TC9 |
| **Description:** Test saving valid data |
| **Steps:**  Asset Number: 12345  Select any tune type  Tune date: November 1, 2015  Entry date: default  Select any staff member  Enter anything into notes  Press Return in Notes/Parts  Enter new Asset Number  Press Enter |
| **Expected Result:**  No errors appear.  First tune is saved to tune list.  Focus returns to asset number  Tune Type: No Change  Tune date: November 1, 2015  Staff doesn’t change  Notes/Parts: Empty  New tune is saved to list |
| **Pass/Fail:** Pass |

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| **Test Case:** TC10 |
| **Description:** Test updating existing tune |
| **Steps:**  Select any tune in the tune list  Change any input data  Press Update |
| **Expected Result:**  Tune in tune list has corresponding data updated |
| **Pass/Fail:** Pass |

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| **Test Case:** TC11 |
| **Description:** Test removing existing tune |
| **Steps:**  Select any tune in the tune list  Press Remove |
| **Expected Result:**  Tune is no longer in list. |
| **Pass/Fail:** Pass |

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| **Test Case:** TC12 |
| **Description:** Test deselecting a tune |
| **Steps:**  Select any tune in the tune list  Left click in the grey area of the tune list |
| **Expected Result:**  No tunes selected in tune list |
| **Pass/Fail:** Pass |

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| **Test Case:** TC13 |
| **Description:** Test deselecting a tune |
| **Steps:** Pass  Select any tune in the tune list  Left click anywhere on the form around the tab panel |
| **Expected Result:**  No tunes selected in tune list |
| **Pass/Fail:** Pass |

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| **Test Case:** TC14 |
| **Description:** Test deselecting a tune |
| **Steps:**  Select any tune in the tune list  Left click on any free part of the tab panel |
| **Expected Result:**  No tunes selected in tune list |
| **Pass/Fail:** Pass |

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| **Test Case:** TC15 |
| **Description:** Saving a charge list |
| **Steps:**  Asset Number: 12345  Tune Type: Performance Tune  Tune Date: Today  Entry Date: Default  Staff: TB  Notes: ABCDE  Press Save  Asset Number: 123456  Tune Type: Performance Tune  Tune Date: Today  Entry Date: Default  Staff: TB  Notes:  Press Save  Asset Number: 1234567  Tune Type: Accident Calibration  Tune Date: Today  Entry Date: Default  Staff: TB  Notes: ABCDEF  Press Save  Press Submit |
| **Expected Result:**  All tunes submitted and cleared from list.  Select Today in Charge List tab  Charge List Reads:  Charge List Date: Today  Performance Tune: 2  Accident Calibration: 1  Notes and Parts:  12345: ABCDE  1234567: ABCDEF |
| **Pass/Fail:** Pass |

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| **Test Case:** TC16 |
| **Description:** Merging a charge list |
| **Steps:**  Asset Number: 12345  Tune Type: Performance Tune  Tune Date: Today  Entry Date: Default  Staff: TB  Notes: ABCDE  Press Save  Asset Number: 123456  Tune Type: Performance Tune  Tune Date: Today  Entry Date: Default  Staff: TB  Notes:  Press Save  Asset Number: 1234567  Tune Type: Accident Calibration  Tune Date: Today  Entry Date: Default  Staff: TB  Notes: ABCDEF  Press Save  Press Submit  Asset Number: 123456789  Tune Type: Performance Tune  Tune Date: Today  Entry Date: Default  Staff: TB  Notes: ABCDEFGHIJ  Press Save  Asset Number: 1234567890  Tune Type: Wax Only  Tune Date: Today  Entry Date: Default  Staff: TB  Notes: XYZ  Press Save  Press Submit |
| **Expected Result:**  All tunes submitted and cleared from list.  Select Today in Charge List tab  Charge List Reads:  Charge List Date: Today  Performance Tune: 3  Accident Calibration: 1  Wax Only: 1  Notes and Parts:  12345: ABCDE  1234567: ABCDEF  123456789: ABCDEFGHIJ  1234567890: XYZ |
| **Pass/Fail:** Pass |

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| **Test Case:** TC17a |
| **Description:** Marking a charge list as Charged |
| **Steps:**  Asset Number: 12345  Tune Type: Performance Tune  Tune Date: Today  Entry Date: Default  Staff: TB  Notes: ABCDE  Press Save  Asset Number: 123456  Tune Type: Performance Tune  Tune Date: Today  Entry Date: Default  Staff: TB  Notes:  Press Save  Asset Number: 1234567  Tune Type: Accident Calibration  Tune Date: Today  Entry Date: Default  Staff: TB  Notes: ABCDEF  Press Save  Press Submit  View Charge List  Press Mark As Charged |
| **Expected Result:**  Charge List is Marked as Charged  Button reads Mark As Not Charged |
| **Pass/Fail:** Pass |

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| **Test Case:** TC17b |
| **Description:** Marking a charge list as Charged |
| **Steps:**  Using previous test:  Press Mark As Not Charged |
| **Expected Result:**  Charge List is Marked as Not Charged  Button reads Mark As Charged |
| **Pass/Fail:** Pass |

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| **Test Case:** TC18 |
| **Description:** Testing Previous Day Button |
| **Steps:**  Go to Charge List tab  Set date to November 10, 2015.  Press Previous Day |
| **Expected Result:**  Date reads November 9, 2015 |
| **Pass/Fail:** Pass |

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| **Test Case:** TC19 |
| **Description:** Testing Previous Day Button |
| **Steps:**  Go to Charge List tab  Set date to October 2, 2015.  Press Previous Day |
| **Expected Result:**  Date reads October 1, 2015  Previous Day button is greyed out |
| **Pass/Fail:** Pass |

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| **Test Case:** TC20 |
| **Description:** Testing Next Day Button |
| **Steps:**  Go to Charge List tab  Set date to November 10, 2015.  Press Next Day |
| **Expected Result:**  Date reads November 11, 2015 |
| **Pass/Fail:** Pass |

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| **Test Case:** TC21 |
| **Description:** Testing Next Day Button |
| **Steps:**  Go to Charge List tab  Set date to April 29, 2016.  Press Next Day |
| **Expected Result:**  Date reads April 30, 2016  Next Day button is greyed out |
| **Pass/Fail:** Pass |

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| **Test Case:** TC22 |
| **Description:** Test Today Button |
| **Steps:**  Go to Charge List tab  Set date to January 1, 2016.  Press Today |
| **Expected Result:**  Date reads as todays date |
| **Pass/Fail:** Pass |

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| **Test Case:** TC23 |
| **Description:** Test Today Button |
| **Steps:**  Go to Charge List tab  Set date to November 1, 2015.  Press Today |
| **Expected Result:**  Previous Day Button Greyed out  After pressing Today, Previous Day button is active again  Date is todays date |
| **Pass/Fail:** Pass |

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| **Test Case:** TC24 |
| **Description:** Test Today Button |
| **Steps:**  Go to Charge List tab  Set date to October 30, 2016.  Press Today |
| **Expected Result:**  Next Day Button Greyed out  After pressing Today, Next Day button is active again  Date is todays date |
| **Pass/Fail:** Pass |

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| **Test Case:** TC25 |
| **Description:** Test Date String Handling |
| **Steps:**  Set Clock to December 31, 2015  Save a tune.  Press submit.  Close the program. |
| **Expected Result:**  Open program. A charge list for December 31, 2015 will be available. |
| **Pass/Fail:** |

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| **Test Case:** TC26 |
| **Description:** Test Date String Handling |
| **Steps:**  Set Clock to January 1, 2016  Save a tune.  Press submit.  Close the program. |
| **Expected Result:**  Open program. A charge list for January 1, 2016 will be available. |
| **Pass/Fail:** |