

## **MAULE MODIFICATION KIT INDEX**

1

#	DESCRIPTION	MODELS AFFECTED
<b>1</b>	<b>M-7-235 modified to an M-7-235B</b> by replacing existing Wing Assemblies, Ailerons and Flaps with shorter Wings Assemblies 2150X-36L/36R, larger 5' Ailerons and shorter Flaps.	M-7-235
<b>2</b>	<b>M-5-180C modified to an M-5-235C</b> by replacing existing O-360-C1F engine with Lycoming <b>O-540-J1A5D, O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5</b> Engine.	M-5-180C
<b>3</b>	<b>M-7-235 modified to an M-7-235A</b> by replacing existing Ailerons and Flaps with larger 5' Ailerons and shorter Flaps.	M-7-235
<b>4</b>	<b>M-7-235, (s/n 4001C-4022C),</b> modified by replacing existing M-7 Rudder without TAB with <b>M-7 Rudder w/TAB.</b> (effect. on listed s/n's only)	M-7-235 (4001C-4022C)
<b>5</b>	<b>M-7 modified by replacing</b> the existing 15 gallon Auxiliary Fuel Tanks <b>with 21 Gallon Auxiliary Fuel Tanks.</b>	M-7-235, M-7-235A, M-7-420
<b>6</b>	<b>M-4-220C modified to an M-4C</b> by replacing existing Franklin 6A-350-C1 Engine with a Continental <b>O-300-A or B</b> Engine.	M-4-220C
<b>7</b>	<b>MX-7-180 modified to an MX-7-180B</b> by replacing existing Wing Assemblies, Ailerons, Flaps and Rudder with longer Wing Assemblies ( <b>2150X-36L/R, -40L/R, -43L/R or -48L/R</b> ), 5' Ailerons, longer Flaps, and larger Rudder.	MX-7-180
<b>8</b>	<b>M-5 modified by installing 5<sup>th</sup> Seat</b> in rear Cabin.	M-5 (All)
<b>9</b>	<b>Auxiliary Fuel Tank Kit</b> for M-4-210/210C and M-4-220C. (For retrofitting Auxiliary fuel tanks)	M-4-210/210C M-4-220C
<b>10</b>	<b>M-4-220C modified</b> by replacing existing M-4 Wing Assemblies, Ailerons, Flaps and 15°/35° Flap Ratchet <b>with M-5 Wing Assemblies,</b> Ailerons, Flaps and <b>20°/40°</b> Flap Ratchet.	M-4-220C
<b>11</b>	Changed to <b>48° Flap Setting</b> to <b>MX-7-160, MX-7-180A, MX-7-180B, M-7-235B</b> Land planes (for s/n's 19001C-19034C, 19041C, 20001C-20026C, 20028C, 20029C, 20031C-20035C, 2203C, 22006C, 22007C, 23001C-23003C, 23005C-23010C, 23012C). Rev. A: adds <b>M-8-235,</b> (for s/n, 15001C-15005C).	MX-7-160, MX-7-180A/ 180B, M-7-235B M-8-235
<b>12</b>	<b>Drum Brakes</b> changed to <b>Disc Brakes</b> - Single and Dual	M-4's
<b>14</b>	<b>MX-7-180 modified to MX-7-235</b> by replacing existing O-360 C1F engine with Lycoming <b>O-540-J1A5D, O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5</b> Engine.	MX-7-180
<b>15</b>	<b>All M-5's modified by</b> replacing existing M-5 Wing Assemblies with <b>M-5 Wing Assemblies</b> p/n <b>2110X-30</b> (w/ <b>23 gal. Mains,</b> p/n <b>2167X</b> and <b>11.5 gal. Aux.</b> ).	M-5-180C/200/210C /210TC/220C/235C
<b>16</b>	<b>M-5-180C modified to an MX-7-180B</b> by replacing existing M-5 Wings, Rudder & Flap Control System <b>with</b> new " <b>Universal</b> " <b>Wing Assemblies</b> 2150X-36/-40/-43/-48 & -30 Rudder and <b>3240F</b> Flap Control System	M-5-180C
<b>17</b>	<b>M-4C, M-4-180C, M-4-210C or M-4-220C modified to M-4-180C</b> by changing existing engine with 180 hp Lycoming <b>O-360 C1F</b> with a F/P or C/S Propeller <b>or</b> a Lycoming <b>O-360-C4F</b> Engine with a F/P Propeller.	M-4C, M-4-180C, M-4-210C, M-4-220C
<b>18</b>	<b>Rudder Trim control</b> added to all M-4 s/n's at owner's discretion.	M-4/C/S/T
<b>19</b>	<b>M-5-210C</b> modified by replacing Continental <b>IO-360-D</b> Engine with <b>IO-360-A</b> Engine.	M-5-210C
<b>20</b>		
<b>21</b>	<b>M-5-210TC</b> Upgross to <b>2500# w/20°/40°</b> Flap Ratchet.	M-5-210TC
<b>22</b>	<b>M-6-180 modified to an MX-7-180B</b> by replacing existing Ailerons, Flaps, Wing tips and Rudder with 5' Ailerons, shorter flaps, squared Wing Tips and larger 3212F-30 Rudder.	M-6-180
<b>23</b>	<b>M-5-220C modified to an M-5-210C</b> by replacing existing Franklin 6A-350-C1 (220 hp) Engine with Continental <b>IO-360-A or D</b> (210 hp) Engine.	M-5- 220C

## **MAULE MODIFICATION KIT INDEX**

<b>24</b>	<b>M-5-235C modified to an MX-7-235</b> by replacing existing M-5 Wings and 3057F Flap Control System with <b>MX-7 Wing Assemblies 2140X-42 or-50 and 3240F Flap Control System</b> ( <i>Approval on HOLD until needed by someone – C-428</i> )	<b>M-5-235C</b>
<b>25</b>	<b>M-6-235 (s/n's 7473C-7521C) modified by replacing</b> existing Ailerons, Flaps with larger <b>5' Ailerons</b> , shorter Flaps.	<b>M-6-235</b> (7473C-7521C)
<b>26</b>	<b>M-6-235 (s/n's 7249C,7356C-7472C) modified by replacing</b> existing Ailerons, Flaps, Wing Tips & Rudder with larger <b>5' Ailerons</b> , shorter Flaps, squared Wing Tips and larger <b>3212F-30 Rudder</b> .	<b>M-6-235</b> (7249C, 7356C-7472C)
<b>27</b>	<b>M-6-235 (s/n's 7249C,7356C-7472C) modified by replacing</b> existing Wing Assemblies, Ailerons, Flaps and Rudder with new <b>"Universal" Wing Assemblies</b> , larger <b>5' Ailerons</b> , shorter Flaps and larger <b>3212F-30 Rudder</b> .	<b>M-6-235</b> (7249C, 7356C- 7472C)
<b>28</b>	<b>M-6-235 (s/n's 7473C-7521C) modified by replacing</b> existing Wing Assemblies, Ailerons, Flaps with new <b>"Universal" Wing Assemblies</b> , larger <b>5' Ailerons</b> and shorter Flaps.	<b>M-6-235</b> (7473C-7521C)
<b>29</b>	<b>M-5-235C modified to an M-5-210C</b> by replacing existing Lycoming O-540 or IO-540 Engine with Continental <b>IO-360-A or D</b> Engine.	<b>M-5-235C</b>
<b>30</b>	<b>MX-7-160 modified to MX-7-180A/B or MXT-7-160 modified to MXT-7-180/A</b> by replacing existing Lycoming O-320-B2D engine with Lycoming <b>O-360-C1F/C4F</b> .	<b>MX-7-160</b> <b>MXT-7-160</b>
<b>31</b>	<b>MX-7-420 modified</b> by replacing existing Wing Assemblies, Ailerons, Flaps with new <b>"Universal" Wing Assemblies (2150X-36L/R, -40L/R, -43L/R or -48L/R)</b> , <b>5' Ailerons</b> , and longer Flaps.	<b>MX-7-420</b>
<b>32</b>	<b>MX-7-180C modified</b> by replacing existing "Universal" Wing Assemblies, 5' Ailerons, and Flaps with "original" shorter 30'10" <b>MX7 Wing Assemblies (2140X- 42)</b> , (53" long) Ailerons, and (109 3/8" long) Flaps.	<b>MX-7-180C</b>
<b>33</b>	<b>Early M-6-235 (s/n 7249C, 7356C-7472C) modified</b> by replacing existing Auxiliary Fuel Tanks with <b>21 Gallon Aux.</b> Fuel Tanks (P/N 2117X-21/22).	<b>M-6-235</b>
<b>34</b>	<b>Revised battery location</b> and Forward C.G. Envelope –180 and –160 models	<b>MX-7-180B/C</b> <b>MXT-7-160/180/A</b>
<b>35</b>	<b>M-5/M-6 modified</b> by changing Fuselage <b>Wood Stringers to Steel Stringers</b>	<b>All M-5/M-6's</b>
<b>36</b>	<b>M-4 (s/n 3-23,25-45) modified by changing to later Fuel System and Propeller.</b>	<b>M-4 (3-23,25-45)</b>
<b>37</b>	<b>MX-7-180A (Has C1F engine modified for Fixed Pitch) modified to MX-7-180B (Re-modifies existing C1F for Constant Speed)</b>	<b>MX-7-180A</b> (w/C1F)
<b>38</b>	<b>MX-7-235 modified to M-6-235 (w/Universal Wings)</b>	<b>MX-7-235</b>
<b>39</b>	<b>M-6-235 and MX-7-235 modified to M-7-235A</b> by replacing existing Fuselage, Wing Assemblies and Rudder* with <b>M-7A Fuselage, 2140X-49/-56 Wing Assemblies</b> and larger <b>Rudder</b> . *(Replacement of Rudder required only for original M-6 (s/n's 7249C, 7356C-7472C) & MX-7-235)	<b>M-6-235,</b> <b>MX-7-235</b>
<b>40</b>	<b>M-5-200 modified to M-5-235C</b> ,by replacing existing Lycoming IO-360 J1A6D Engine with Lycoming <b>O-540-J1A5D, O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5</b> Engine	<b>M-5-200</b>
<b>41</b>	<b>M-4-210/C modified</b> by replacing existing M-4 Wing Assemblies, Ailerons, Flaps and 15°/35° Flap Ratchet with <b>M-5 Wing Assemblies p/n 2110X-30 (23 gal main/11.5 gal Aux.)</b> , Ailerons, Flaps and <b>20°/40° Flap Ratchet</b> .	<b>M-4-210/C</b>
<b>42</b>	<b>M-4-210/C modified to an M-4/C</b> by replacing existing Continental IO-360-A or D Engine with a Continental <b>O-300-A or B</b> Engine.	<b>M-4-210/C</b>
<b>43</b>	<b>M-4/C modified to an M-4-210/C</b> by replacing existing Continental O-300-A or B Engine with a Continental <b>IO-360-A or D</b> Engine.	<b>M-4/C</b>
<b>44</b>	<b>Super skylight Installation</b>	<b>All Models</b>
<b>45</b>	<b>M-4 Series modified</b> by changing Fuselage <b>Wood Stringers to Steel Stringers</b>	<b>All M-4's</b>
<b>46</b>	<b>MXT-7-180A (F/P) modified to MXT-7-180 (C/S)</b> by replacing existing Lyc. O-360-C4F Engine & Sensenich Prop with <b>O-360-C1F</b> Engine and Hartzell C/S Prop.	<b>MXT-7-180A</b>

## **MAULE MODIFICATION KIT INDEX**

<b>47</b>	<b>MXT-7-180A modified to an M-7-235B</b> by replacing existing Fuselage, Nose Gear, Spring Gear and Lycoming O-360 Engine with M-7 Fuselage, Oleo L.G., TW and Lycoming <b>O-540 or IO-540</b> Engine.	<b>MXT-7-180A</b>
<b>48</b>	<b>M-7-235B modified to an MT-7-235</b> by replacing existing Fuselage, Oleo Landing Gear and TW with MT-7 Fuselage, Nose Gear and Spring Gear	<b>M-7-235B</b>
<b>49</b>	<b>MXT-7-180A modified to an M-7-235C</b> by replacing existing Fuselage, Nose Gear, Spring Gear and Lycoming O-360 Engine with M-7 Fuselage, Spring Gear, TW and Lycoming <b>O-540 or IO-540</b> Engine.	<b>MXT-7-180A</b>
<b>50</b>	<b>M-7-235C modified to an MT-7-235</b> by replacing existing Fuselage, Spring Gear and TW with MT-7 Fuselage, Nose Gear and Spring Gear	<b>M-7-235C</b>
<b>51</b>		
<b>52</b>		
<b>53</b>		
<b>54</b>	<b>MX-7-180A/AC (Fixed Pitch) modified to MX-7-180B/C (C/S)</b> by replacing existing Lycoming O-360- <b>C4F</b> Engine & Sensenich Prop with <b>O-360-C1F</b> Engine and Hartzell constant Speed Prop.	<b>MX-7-180A</b>
<b>55</b>		
<b>56</b>		
<b>57</b>	<b>M-6-235 and MX-7-235 modified</b> by replacing existing Wing Assemblies and Rudder with longer <b>2140X-49/-53/-49/-56 M-7A Wing Assemblies</b> and larger <b>3212F-30 Rudder</b> . <i>(An M-5-235C that is modified to an M-6-235 per Mod Kit #60 may also be modified per this Mod Kit)</i> <i style="text-align: right;">(Approved)</i>	<b>M-6-235, MX-7-235 (M-5-235)</b>
<b>58</b>	<b>MX-7-160, MX-7-180A or MX-7-180B modified to an M-6-235 (with Universal Wings)</b> by replacing existing Lycoming O-320- <b>B2D</b> Engine & F/P Prop with Lycoming <b>O-540-J1A5D, O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5</b> Engine and C/S Prop. <i style="text-align: right;">(Rev. A Approved 10/20/08)</i>	<b>MX-7-160, MX-7-180A MX-7-180B</b>
<b>59</b>	<b>M-5-235C, M-6-235, MX-7-235, M-7-235/A/B/C or M-8-235 modified</b> by replacing the existing engine with a Lycoming <b>O-540-J1A5D, O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5</b> Engine. <i style="text-align: right;">(Approved)</i>	<b>M-5-235C, M-6-235, MX-7-235, M-7-235/A/B/C, M-8-235</b>
<b>60</b>	<b>M-5-235C modified to an M-6-235</b> by replacing existing M-5 Wing Assemblies and Rudder with M-6 Wing Assemblies <b>2150X-36/-40/-43/-48</b> and larger <b>3212F-30 Rudder</b> and by replacing 3057F Flap Control System with <b>3240F</b> Gear Driven Flap Operating System. <i>(Was originally Service Kit No. 10)</i> <i style="text-align: right;">(Approved)</i>	<b>M-5-235C</b>
<b>61</b>		
<b>62</b>		
<b>63</b>	<b>M-5-235C, M-6-235, MX-7-235 or M-8-235 modified</b> by replacing the existing –235 engine with a Lycoming <b>IO-540-V4A5</b> (260 hp) Engine <u>or</u> an <b>M-7-235B/C</b> modified to <b>M-7-260/C</b> by replacing the existing engine with a Lycoming <b>IO-540-V4A5</b> (260 hp) Engine. <i style="text-align: right;">(Approved)</i>	<b>M-5-235C, M-6-235, MX-7-235, M-7-235B/C, M-8-235</b>
<b>64</b>		
<b>65</b>	<b>M-7-420AC modified</b> by replacing existing Wing Assemblies, Ailerons, Flaps with new <b>Upross Wing Assemblies 2150X-51</b> with <b>5'</b> Ailerons. <i style="text-align: right;">(Approved)</i>	<b>M-7-420AC</b>
<b>66</b>		
<b>67</b>		

***MAULE MODIFICATION KIT INDEX***

<b>68</b>		
<b>69</b>	<b>M-5-210C modified</b> by replacing existing M-5 Wing Assemblies and Rudder with longer <b>M-7A</b> Wing Assemblies <b>2140X-49/-56</b> and larger <b>3212F-30</b> Rudder and by replacing 3057F Flap Control System with <b>3240F</b> Gear Driven Flap Operating System <i>(Approved)</i>	<b>M-5-210C</b>
<b>70</b>	<b>MX-7-180A (F/P) modified to MX-7-180B (C/S)</b> by replacing existing Lycoming O-360- <b>C4F</b> Engine and Sensenich Prop with <b>O-360-C1F</b> Engine and Hartzell C/S Propeller. <i>(Approved)</i>	<b>MX-7-180A</b>
<b>71</b>		
<b>72</b>		
<b>73</b>	<b>MX-160C, MX-7-180C or MX-7-180AC modified to M-8-235</b> by replacing the existing engine with a Lycoming <b>O-540-J1A5D, O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5</b> Engine. <i>(Approved 10/20/08)</i>	<b>MX-160C, MX-7-180C, MX-7-180AC</b>
<b>74</b>	<b>M-5-210C modified to M-5-235C</b> by replacing the existing Continental engine with a Lycoming <b>O-540-J1A5D, O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5</b> Engine. <i>(Was originally Service Kit No. 9)</i> <i>(Approved 08/12/08)</i>	<b>M-5-210C</b>
<b>75</b>	<b>M-5-210C modified to M-5-220C</b> by replacing the existing Continental engine with a Franklin 6A-350-C1 Engine. <i>(Approved 12/09/08)</i>	<b>M-5-210C</b>
<b>76</b>		
<b>77</b>		
<b>78</b>	<b>M-7-260, M-7-260C or MT-7-260</b> modified by replacing the existing Lycoming <b>IO-540-V4A5</b> (260 hp) with a Lycoming <b>IO-540-V4A5UD</b> (260 hp) Engine <i>(Approved 05-19-10)</i>	<b>M-7-260, M-7-260C, MT-7-260</b>
<b>79</b>		
<b>80</b>	<b>M-5-200/210C/-210TC/-220C/-235C modified to an M-5-180C</b> by replacing existing Lycoming IO-360-J1A6D, TO-360-F1A6D, O-540J1A5D/J3A5, O-540-B4B5, IO-540-W1A5D/W1A5, Continental IO-360-A or D, Franklin 6A-350-C1 Engine Installation with a Lycoming <b>O-360-C1F</b> (180 hp) Engine Installation. <i>(Approved 02-10-14)</i>	<b>M-5-200/210C/-210TC/-220C/-235C</b>