

Template & Example

Monday, January 23, 2023 2:31 PM

EnD

Project	Assigned to	Task list	Priority	Status	Notes
Fuel tank	Brenden	<input checked="" type="checkbox"/> - CAD <input checked="" type="checkbox"/> - Water Jet <input checked="" type="checkbox"/> - Weld <input type="checkbox"/> - Tubing <input checked="" type="checkbox"/> - Cap and flange <input type="checkbox"/> - Cut neck <input type="checkbox"/> - Turn neck <input type="checkbox"/> - Make cap? <input type="checkbox"/> - Get wire pass thru <input type="checkbox"/> - Add drainplug <input type="checkbox"/> - Order neck parts	HIGH	In Progress	- Fuel tank mounted in main static - Scheduled meeting 01/23 for update

PRIORITY
 Low
 Medium
 High

Manufacturing

Project	manufacturer	Item/part	Quantity	Stock (YES/NO)	Drawing complete? (CAD)	Machine type	Machined/Obtained (YES/NO)	Assembled? (YES/NO)	Completed (on the car) (YES/NO)	Notes
Fuel Tank	John	Filler neck	1	Yes	Yes	Cut and weld	No	No	No	

Teal - ready to be made
 Green - machined/obtained
 Orange- waiting for stock arrival
 Yellow - need designer input
 Magenta - needs Water Jet

COTS

Project	Assigned to	item/part	Quantity	Order list submitted by lead?	Order list submitted to Lousie?	Order list submitted by Louise?	On KS5? (being transferred)	Obtained	Notes
Fuel Tank	Brenden								

Composites

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Project	Assigned to	Task list	Priority	Status	Notes
EV Firewall	Grayson Legg/Composites	<div><input checked="" type="checkbox"/> Waterjet Aluminum</div> <div><input checked="" type="checkbox"/> Create jigs</div> <div><input checked="" type="checkbox"/> Bond fiber glass hinges</div> <div><input checked="" type="checkbox"/> Cut Nomex</div> <div><input checked="" type="checkbox"/> Bond Nomex to Aluminum</div> <div><input checked="" type="checkbox"/> Water jet tabs</div> <div><input checked="" type="checkbox"/> Bend tabs</div> <div><input checked="" type="checkbox"/> Weld tabs</div> <div><input checked="" type="checkbox"/> Insert push pins to firewall</div> <div><input checked="" type="checkbox"/> Install</div>	High	Finished	
EV Body	Composites	<div><input checked="" type="checkbox"/> Sand out breather</div> <div><input checked="" type="checkbox"/> Patch dry spots</div> <div><input checked="" type="checkbox"/> Sand out resin creasing</div> <div><input checked="" type="checkbox"/> Sand down</div> <div><input checked="" type="checkbox"/> Clearcoat</div> <div><input checked="" type="checkbox"/> Release from mold</div> <div><input checked="" type="checkbox"/> Cut to fit</div> <div><input checked="" type="checkbox"/> Weld tabs</div> <div><input checked="" type="checkbox"/> Install pushpins</div> <div><input checked="" type="checkbox"/> Buff and polish</div> <div><input checked="" type="checkbox"/> Install</div>	HIGH	Finished	
EV Endplates	Composites	<div><input checked="" type="checkbox"/> Water jet to size</div> <div><input checked="" type="checkbox"/> Clean</div> <div><input checked="" type="checkbox"/> Buff and polish</div> <div><input checked="" type="checkbox"/> Install</div>	MEDIUM	Ready for assembly	
EV Floorpan	Hamza Jaafar/Composites	<div><input checked="" type="checkbox"/> Cut holes in samples for tabs</div> <div><input checked="" type="checkbox"/> Acquire fish scale</div> <div><input checked="" type="checkbox"/> Test tear out</div> <div><input checked="" type="checkbox"/> Cut old floorpan</div> <div><input checked="" type="checkbox"/> Layup extension</div> <div><input checked="" type="checkbox"/> Trim</div> <div><input checked="" type="checkbox"/> Cut holes</div> <div><input checked="" type="checkbox"/> Weld tabs</div> <div><input checked="" type="checkbox"/> Buff and polish</div> <div><input checked="" type="checkbox"/> Install</div>	HIGH	Finished	

Manufacturing

Project	Assigned to	Item/part	Quantity	Stock	Drawing complete? (CAD)	Machine type	Machined/Obtained	Assembled?	Completed (on the car)	Notes

COTS

Project	Assigned to	item/part	Quantity	Order list submitted by lead?	Order list submitted to Louise?	Order list submitted by Louise?	On KS5? (being transferred)	Obtained	Notes

Aero

Monday, January 23, 2023 2:00 PM

Project	Assigned to	Task list	Priority	Status	Notes
Swan neck	aj	- Cad - PPs - Wj plates - Wj tabs - Inserts - Jig&weld inserts - Jig&weld mount	LOW	Not started	

Manufacturing

Project	Assigned to	Item/part	Quantity	Stock	Drawing complete? (CAD)	Machine type	Machined/Obtained	Assembled?	Completed (on the car)	Notes
Swan neck	aj	plates	2	y		wj	n			
		tabs	4	y		wj	n			
		inserts	2	y	n	lathe	n			
		assembly				welder		n	n	

COTS

Project	Assigned to	item/part	Quantity	Order list submitted by lead?	Order list submitted to Lousie?	Order list submitted by Louise?	On KS5? (being transferred)	Obtained	Notes
Swan neck	aj	bolts	4	n	n	n	n	n	

Cooling System

Monday, January 23, 2023 2:00 PM

Key:

Waiting to be assigned (someone grab it!)

In progress (assigned, and being worked on)

Completed (shit is done)

Delayed/Stopped (revisit later)

System	Project	Assigned to	Task list	Priority	Status	Notes
ALL	GENERAL TODO		<input checked="" type="checkbox"/> CAD softlines <input checked="" type="checkbox"/> Make list of all fittings & tube needed <input checked="" type="checkbox"/> Check stock of current fittings & line (main & in dyno) <input checked="" type="checkbox"/> Double check CAD for lines & mounts of items <input checked="" type="checkbox"/> Order any needed items <input checked="" type="checkbox"/> Make mounts <input checked="" type="checkbox"/> Install lines <input checked="" type="checkbox"/> Wire up pump <input checked="" type="checkbox"/> Fill lines and test			
Radiator	Mounts	Bray???	<input checked="" type="checkbox"/> CAD mounts <input checked="" type="checkbox"/> Mount on car <input checked="" type="checkbox"/> Add brace to mounts to reduce wobble <div> <input checked="" type="checkbox"/> Designed <input checked="" type="checkbox"/> Cut <input checked="" type="checkbox"/> Needs to be welded on </div> <input type="checkbox"/> Change alum. Rod bc rules duh	Medium	In progress	Need to do, made some but then remembered the covering rule so tuff. Made some new chunky ones that moved it back some though. New mounts made & cut, need to be welded on
Pump	Mount	Alejandro	<input checked="" type="checkbox"/> CAD water pump <input checked="" type="checkbox"/> CAD mounts <div> <input checked="" type="checkbox"/> Move further to the rear </div> <input checked="" type="checkbox"/> Manufacture mounts <input checked="" type="checkbox"/> Mount on car	Medium	Done	Need to do, was going to use EBP40 as already in cad but no money so use free EWP150 from Clemson, hence need for new cad. CAD is in, but no idea on the actual mounting holes and stuff. Mounts have been made, need to see if we're gonna use the ewp80 but either way they use the same mounting pattern. Picked up pump, just need to finish CAD for mounts. Finished CAD, just needs to be made and welded on the car
Motor	Fittings	Casey	<input checked="" type="checkbox"/> Find CAD? There is the old one sitting near the inverter in the shop <input checked="" type="checkbox"/> Make CAD & Drawing <input checked="" type="checkbox"/> Give to manufacturing	Medium	Done	Not immediate priority but needs to be done, find thread size for motor in manual, made cad for that thread to 6an straight & have manufactured. They are made and in the shop
Inverter	Fittings	Alejandro	<input checked="" type="checkbox"/> Check the fitment between inverter & lid, only 2in of clearance <input checked="" type="checkbox"/> See if a regular -6 an 90degree fitting will clear between this area <div> <input checked="" type="checkbox"/> If so, then we good and add those to the list <input checked="" type="checkbox"/> If not, uh, we gotta figure something else out then <input checked="" type="checkbox"/> A short swivel 90 to straight? </div>	High	Done	Pls check fitment as it's close in cad (we think a swivel will work). Checked fitment, a swivel 90an to straight should clear, can also connect lines then screw inverter down to give clearance. We will screw/unscrew the inverter to attach the coolant lines as needed.
All	Softline routing		<input type="checkbox"/> Using diagram of coolant flow in onenote, CAD softline routing)	Low	Assigned	Low priority, it's really just 3d sketches and sweeps but our time is better spent elsewhere atm probably
All	List of fittings need	Alejandro	<input checked="" type="checkbox"/> Make list of fittings under cooling in onenote against CAD and make sure they are the ones we need <div> <input checked="" type="checkbox"/> Check fittings in cooling bucket near firesafe cabinet to see what we have already <input checked="" type="checkbox"/> There may be some on the old cooling loop as well <input checked="" type="checkbox"/> Also ask Brenden, he found a few <input checked="" type="checkbox"/> Let lead know if we need to order fittings </div> <input checked="" type="checkbox"/> Make diagram of tube lengths & how much we will need/eyeball it <div> <input checked="" type="checkbox"/> Multiply lengths by 1.5 to ensure we have enough, or check by hand against the routing in the car <input checked="" type="checkbox"/> Check dyno & main for -6an hose we have already <input checked="" type="checkbox"/> Let lead know if we need to order hose <input checked="" type="checkbox"/> We will be reusing -6an hose we already have (should be enough) </div> <input checked="" type="checkbox"/> Waiting on 2 pump fittings to come in <input checked="" type="checkbox"/> Waiting on 2 motor fittings to be manufactured	High	Done	This is top priority as we need to know if we need to order fittings or lines, but it's been done. No money tho so fittings may not be ordered. Found 2 boxes of fittings in the shop and updated the fittings list in EV\Cooling planning, we have everything BUT the 2x ORB -16an to -6an fittings that goes to the pump.
Pump	Test old pump	Anyone	<input checked="" type="checkbox"/> Dunk the old water pump in a tub of water to see if it's really fucked or not <input checked="" type="checkbox"/> Seems to work so like yea	Low	Done	Would be good just to know what the status is, video of pump taken and it seems fine, so ye
All	Softline manufacturing	Cornman	<input checked="" type="checkbox"/> Make AN lines & route throughout the car <div> <input checked="" type="checkbox"/> Not in cad, so do the best possible <input checked="" type="checkbox"/> See EV\Cooling loop planning for details on flow path </div>	Medium	Done	
Radiator	Cap/catch can	Cornman	<input checked="" type="checkbox"/> Need a way to fill & bleed the loop-not accounted for in the design <div> <input checked="" type="checkbox"/> Radiator cap welded to the rad? </div> <input type="checkbox"/> Catch cans <div> <input type="checkbox"/> We may not need them, but need to double check and make backup plan </div>	High	Nearly complete	Radiator bung and AN6 cap installed. System is sealed and does not vent/will not need to vent. No catch can required, but HYTECH runs one-need to make this backup plan

			<input type="checkbox"/> Find fitting to screw in <input type="checkbox"/> Get tube <input type="checkbox"/> Get mount for catch can <input type="checkbox"/> Get catch can			
All	Fixing up lines	Cornman	<input type="checkbox"/> Trim up the two lines <input type="checkbox"/> Rad to pump inlet <input type="checkbox"/> Pump to motor <input type="checkbox"/> Order new straight 6an fitting?	Low	Assigned	Just fit and finish and the one mismatched colored line

Manufacturing

System	Project	Assigned to	Item/part	Quantity	Stock	Drawing complete? (CAD)	Machine type	Machined/Obtained	Assembled?	Completed (on the car)	Notes
Radiator	Mounts		Cooling loop radiator tabs	2	Y	Y	WJ	Y	Y	Y	
Pump	Mounts		Cooling bracket for pump	1	Y	Y	WJ	Y	Y	Y	
Radiator	Brace		Steel tab	1	Y	Y	WJ	Y			
Radiator	Brace		Aluminum bar	1	Y	Y	WJ	Y			

COTS

System	Project	Assigned to	Item/part	Quantity	Order list submitted by lead?	Order list submitted to Louise?	Order list submitted by Louise?	On KSS? (being transferred)	Obtained	Notes
Pump	Fittings		ORB -16an to -6an	2	Yes	Lmao	Lmao	N		BJ bought them for us

EV Powertrain System

Monday, January 23, 2023 2:03 PM

Key:
 Waiting to be assigned (someone grab it!)
 In progress (assigned, and being worked on)
 Completed (done)
 Delayed/Stopped (revisit later)

PRIORITY
 Low
 Medium
 High

System	Project	Assigned to	Task list	Priority	Status	Notes
Phase leads	Y connection covers	Steven	<input checked="" type="checkbox"/> Cover for the y connection to the motor (goal is to cover up and protect the ring terminal connection so it doesn't look sketchy) <input checked="" type="checkbox"/> CAD a solution (probably 3D printed) <input checked="" type="checkbox"/> Print a test piece <input checked="" type="checkbox"/> Revise the part <input checked="" type="checkbox"/> Print the proper ones <input checked="" type="checkbox"/> Checking them tonight	Low	Done	3D printed most likely, really so we don't have to use kapton and electrical tape on the ring terminals again lol. Tested fitment and should be decent, maybe shorten a lil bit or make thinner? Will print test bit in PETG
Phase leads	HV Wire path	Anyone/John	<input checked="" type="checkbox"/> Layout a diagram for the connections (in onenote) <input checked="" type="checkbox"/> Mount motor in chassis <input checked="" type="checkbox"/> Mount Acc & inverter in chassis <input checked="" type="checkbox"/> Mount the Y terminal side <input checked="" type="checkbox"/> Mock up the wire routing/lengths between the y junction & inverter <input checked="" type="checkbox"/> Figure out where to ground shielding (I assume inverter?) <input checked="" type="checkbox"/> Double check with someone before cutting <input checked="" type="checkbox"/> Cut wire to length <input checked="" type="checkbox"/> Crimp ring terminal <input checked="" type="checkbox"/> Crimp inverter side <input checked="" type="checkbox"/> Connect wires!	High	Done	Diagram is in onenote under HV Path Diagrams, 2 have been done but we need to do one more
Lid to Inverter	HV Wire path	Anyone	<input checked="" type="checkbox"/> New connectors from TE? <input checked="" type="checkbox"/> Sponsorship? Emails are somewhere, steven has been doing some emailing back and forth but has been getting ghosted <input checked="" type="checkbox"/> Want: <input checked="" type="checkbox"/> Straight pigtail to the inverter <input checked="" type="checkbox"/> Double-sided connector for acc to charger <input checked="" type="checkbox"/> Reusing old connectors <input checked="" type="checkbox"/> Measure lengths <input checked="" type="checkbox"/> Cut wire <input checked="" type="checkbox"/> Crimp <input checked="" type="checkbox"/> Assemble	High	Done	Will try to get sponsorship one last time, gathering information from steven and others on the email situation. Not happening lol so we are using the old connectors but it'll be good. Need to cut and crimp inverter side
Powertrain	Motor vinyl	Vinyl subgroup	<input checked="" type="checkbox"/> Yellow vinyl on outside of motor	Medium	Done	
Powertrain	Motor install	Patrick	<input checked="" type="checkbox"/> Remove motor from car <input checked="" type="checkbox"/> Remove old vinyl <input checked="" type="checkbox"/> Give to vinyl subgroup <input checked="" type="checkbox"/> Reinstall motor in car <input checked="" type="checkbox"/> Safety wire bolts <input checked="" type="checkbox"/> Put chain on	High	Done	Someone do it, justin was working on it yesterday and patty but like just get dat done
Powertrain	Motor spin		<input checked="" type="checkbox"/> Path out rear harness <input checked="" type="checkbox"/> Check charge on bmw packs <input checked="" type="checkbox"/> Adapt vcw wires <input checked="" type="checkbox"/> Check mounts of motor <input checked="" type="checkbox"/> Reinstall phase leads <input checked="" type="checkbox"/> Pedal sensors	High	Done	
Inverter	Bracket for when the ACC is out	Tyler/Amar	<input type="checkbox"/> CAD bracket to hold inverter <input type="checkbox"/> Manufacture (water jet I imagine pls)	High	Needs to be assigned	Inverter hangs out in the car when acc is out, need to make a bracket or sling or somethin to keep inverter in place while acc comes in and out
Motor/ inverter	Phase connection cover directly on the motor	Needs to be assigned	<input type="checkbox"/> Tyler	Mid	Needs to be assigned	A 3d printed part to cover the bolted connections to the motor.

Manufacturing

System	Project	Assigned to	Item/part	Quantity	Stock	Drawing complete? (CAD)	Machine type	Machined/Obtained	Assembled?	Completed (on the car)	Notes

COTS

System	Project	Assigned to	Item/part	Quantity	Order list submitted by lead?	Order list submitted to Louise?	Order list submitted by Louise?	On KSS? (being transferred)	Obtained	Notes

Teal - ready to be made

Green - machined/obtained

Orange- waiting for stock arrival

Yellow - need designer input

Magenta - needs Water Jet

ACC System

Monday, January 23, 2023 2:03 PM

Key:
Waiting to be assigned (someone grab it!)
In progress (assigned, and being worked on)
Completed (shit is done)
Delayed/Stopped (revisit later)

System	Project	Assigned to	Task list	Priority	Status	Notes
Modules	HV Wiring between modules	Eddy, Herbie & Richard	<input checked="" type="checkbox"/> Cut sample piece of wire <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Check bend radius <input checked="" type="checkbox"/> Remove sheathing <input checked="" type="checkbox"/> Check bend radius again <input checked="" type="checkbox"/> Decide between shielding or no shielding <input checked="" type="checkbox"/> Figure out lengths <input checked="" type="checkbox"/> Put measurements in onenote <input checked="" type="checkbox"/> Save sample piece of wire & shielding in safe spot for comp <input checked="" type="checkbox"/> Assembling wires <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Cut wire to lengths specified in onenote (6") <input checked="" type="checkbox"/> Remove outer layer of shielding <input checked="" type="checkbox"/> Remove inner layer of shielding for exposed wire to go into crimp (3/4"-7/8") <input checked="" type="checkbox"/> Lay out surlocks in the correct order (see onenote, with the certain 180 and 90 degree ones) <input checked="" type="checkbox"/> Insert wire into surlocks & crimp <input checked="" type="checkbox"/> Repeat above 	High	Done	John will probably grab a freshman & knock it out, the lengths and sample piece is already done, need to find sample piece but it's done for the actual bits
Modules	HV Wiring to endline connections (the pole mount which goes to the lid)	Anyone (John/Brenden will print the PETG part but not needed for making the HV wires)	<input checked="" type="checkbox"/> Check fitment of CAD model by mounting PLA piece in Acc <input checked="" type="checkbox"/> Determine if endline holder needs to be PETG or sheet metal part <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Print a PETG one and see if it feels nice, if so then keep PETG <input checked="" type="checkbox"/> PETG looks good <input checked="" type="checkbox"/> Install it 	High	Done	We've printed a PLA one and will be printing a PETG one. The mounting points 'will stay the same however, so the blue PLA one can be used to mock up and make the wires. Printed and looks good, so just need to install it
Modules	Assembly of packs	Anyone	<input checked="" type="checkbox"/> Obtain new module frames <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Heat thread inserts <input checked="" type="checkbox"/> Glue top cover <input checked="" type="checkbox"/> Fiberglass standoffs drilling and tapping <input checked="" type="checkbox"/> Shave handles & modules for fitment <input checked="" type="checkbox"/> Number modules <input checked="" type="checkbox"/> Obtain busbars <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Have manufacturing cut busbars <input checked="" type="checkbox"/> Test fitment on example module <input checked="" type="checkbox"/> Check drawer on EV table for the busbars for each <input checked="" type="checkbox"/> Obtain the nyloc screws for busbars <input checked="" type="checkbox"/> Obtain the washers for busbars <input checked="" type="checkbox"/> Obtain the voltage tap harness (LV) <input checked="" type="checkbox"/> Obtain the temp harness (LV) <input checked="" type="checkbox"/> Begin module assembly <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Remove each module from old acc <input checked="" type="checkbox"/> Start tear down on old modules- 1 at a time <input checked="" type="checkbox"/> Bag & label all removed components from modules <input checked="" type="checkbox"/> BEFORE REMOVING BATTERIES <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Label the order with (module #)-(cell #) starting with - first (to retain the order of cells when placed into new acc <input checked="" type="checkbox"/> Carefully transfer the cells to the new, appropriate module <input checked="" type="checkbox"/> Install busbars with voltage tap harness on one side of each busbar- (LV) check with Val on this <ul style="list-style-type: none"> <input checked="" type="checkbox"/> HEAT SHRINK? (later) <input checked="" type="checkbox"/> Poles only keep module together <input checked="" type="checkbox"/> Install temp harness (LV) <input checked="" type="checkbox"/> Conformal coat boards <input checked="" type="checkbox"/> Put on teensy <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Install cover/handles <input checked="" type="checkbox"/> Install surlocks <input checked="" type="checkbox"/> Install board & connect harness (LV) <input checked="" type="checkbox"/> Install completed module into Acc after inspection by others <input checked="" type="checkbox"/> Repeat for each module & check off below <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Module #1 TRANSFERRED <input checked="" type="checkbox"/> Module #1 DONE <input checked="" type="checkbox"/> Module #2 TRANSFERRED <input checked="" type="checkbox"/> Module #2 DONE <input checked="" type="checkbox"/> Module #3 TRANSFERRED <input checked="" type="checkbox"/> Module #3 DONE <input checked="" type="checkbox"/> Module #4 TRANSFERRED <input checked="" type="checkbox"/> Module #4 DONE <input checked="" type="checkbox"/> Module #5 TRANSFERRED <input checked="" type="checkbox"/> Module #5 DONE <input checked="" type="checkbox"/> Module #6 TRANSFERRED <input checked="" type="checkbox"/> Module #6 DONE <input checked="" type="checkbox"/> Module #EXAMPLE DONE <input checked="" type="checkbox"/> Raise cell to 4.2	High	Done	Module disassembly complete, batteries transferred w/ voltage tap harness & busbars, waiting on temp harness and boards to finalize modules. Need to balance the voltages (drain to 3.5?) NEED POLE COVERS
Lid	New AIRS/Contactors	Bales/Jonathan	<input checked="" type="checkbox"/> Ordering new contactors as designed in cad <ul style="list-style-type: none"> <input checked="" type="checkbox"/> No money so <input checked="" type="checkbox"/> Check emails <input checked="" type="checkbox"/> Need to call Sensata <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Gave us GIGAVAC number <input checked="" type="checkbox"/> Bailey called them and left voicemail 2/7/23 with no response <input checked="" type="checkbox"/> Will plan to reuse old AIRS unless we get a call back 	High	Stopped	Will continue to call gigavac but most likely will be using the old AIRs from here on out, hence project below, lol gigavac is ded
Lid	Reusing old AIRS/Contactors	Abri	<input checked="" type="checkbox"/> Make mounting bracket to position old AIRS vertically as they will not fit otherwise <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Manufacture bracket <input checked="" type="checkbox"/> Test fitment of bracket & install in LID <input checked="" type="checkbox"/> Add piece between top of airs to space out bracket (actually fix the bracket too either) <input checked="" type="checkbox"/> Add tape/foam to bottom of airs to prevent rattling <input checked="" type="checkbox"/> Make new busbars to connect old AIRS		Done	Design is complete, manufacturing is complete, needs assembly and fitment. See notes about the bracket

			<input checked="" type="checkbox"/> Manufacture busbars <input checked="" type="checkbox"/> Test fitment of busbars & install in LID <input checked="" type="checkbox"/> Rethread airs <input checked="" type="checkbox"/> Heatshrink bars? <input checked="" type="checkbox"/> Energy meter mockup			
Lid	HV Wire path from endline holder	Eddy	<input checked="" type="checkbox"/> Check the above "HV Wiring to endline connections" project, need the part mounted in ACC to do this <input checked="" type="checkbox"/> Mount end line holder into acc <input checked="" type="checkbox"/> Mount correct degree surlocks into the endline holder <input checked="" type="checkbox"/> Using installed modules, run a strip of wire from both ends of the battery pack (the far + end and the close - end) to obtain the lengths needed and determine appropriate pathing <input checked="" type="checkbox"/> Cut each wire to length <input checked="" type="checkbox"/> Remove the outside shielding <input checked="" type="checkbox"/> Remove the inner shielding for the amount which will be crimped (same as the module wires) <input checked="" type="checkbox"/> Insert wire into surlocks & crimp <input checked="" type="checkbox"/> Crimp the ring terminal & surlock	High	Done	Done and in acc. Both wires attached to blue mount endline holder
Lid	Polycarb cover for lid cover	Abri	<input type="checkbox"/> Gasket for polycarb <input type="checkbox"/> Skipped for now <input type="checkbox"/> Cut groove for rubber seal <input type="checkbox"/> Post engineer holes to fix looseness? <input type="checkbox"/> Maybe fix CAD & cut a new one? <input type="checkbox"/> Silicone before comp	Low	Delayed till later	Not a priority atm, will be once car is running
Box	G10 cover plate	Abri	<input checked="" type="checkbox"/> Check CAD <input checked="" type="checkbox"/> Manufacture <input checked="" type="checkbox"/> Install in acc and test fitment <input checked="" type="checkbox"/> Done	Medium	Done	Done and in the acc
Box	Cooling fans on the outside of acc	Abri	<input checked="" type="checkbox"/> Fans <input checked="" type="checkbox"/> Order the fans <input checked="" type="checkbox"/> Receive the fans <input type="checkbox"/> Fan mount <input checked="" type="checkbox"/> There is a fan mount in CAD <input checked="" type="checkbox"/> It does not fit on our printers <input checked="" type="checkbox"/> Figure out a solution to print it, cut it in half? Glue? Turn into sheet metal? Bray's printer? <input checked="" type="checkbox"/> Sent STLs to bray to see if they'll fit <input checked="" type="checkbox"/> Check the hole size in cad compared to #10 32 heat set inserts <input checked="" type="checkbox"/> Figure out fan wire routing <input type="checkbox"/> print <input checked="" type="checkbox"/> Get orange/black petg for new fan mount <input type="checkbox"/> Probably glue to walls & have cover <input type="checkbox"/> Check if can probe through into HV stuff, EV rules	Medium	Delayed till later	Would be best to keep current design if possible to avoid changing stuff, but sheet metal welded on would not be a bad idea (except warping). Will glue 3D printed mount on it. Part is too close to tubes, need to revisit design so rip gonna do it later
Charger upgrades	Charger fans and Lv Supply	Marco/Ed,Edd,Eddy, Bryce	<input checked="" type="checkbox"/> Reset button <input checked="" type="checkbox"/> 12v power to acc <input checked="" type="checkbox"/> Fix spoogody <input type="checkbox"/> Diagram <input type="checkbox"/> Fix HV mess <input type="checkbox"/> Fix glass door <input checked="" type="checkbox"/> Recrimp & fix the cable going to the charger, solder to charger?	High	Assigned	Starting working on it tues, wiring diagram is in rapid harness, just needs final review and checking over before it can be wired up Bale's notes: • Lose DC outs • Clean reset button up • Labels
Box	Leak testing	Anyone	<input type="checkbox"/> Test the box's ability to repel/keep water out	Low	Needs to be assigned	Low priority, get done like way later
Modules	Pole module covers	Anyone	<input checked="" type="checkbox"/> UNCLOG THE 3D PRINTER IN THE SHOP & PRINT EM, FILE IS ALREADY ON SD CARD IN PRINTER <input checked="" type="checkbox"/> Sad, we unclogged it but now print warped, will need to reprint better later <input checked="" type="checkbox"/> Yay they printed	Medium	Done	Just 3d printer stuff
Box	Weld length	Welders	<input checked="" type="checkbox"/> Lengthen the welds on the outside to >1in	Medium	Done	F.10.2.3 The accepted methods of joining walls to walls and walls to floor are: a. Welding <ul style="list-style-type: none"> Welds may be continuous or interrupted. If interrupted, the weld/space ratio must be 1:1 or greater All weld lengths must be greater than 25 mm Need to do soon, whenever someone who can weld aluminum is free (and not
Box	Battery nomex covers against inside walls	Abri	<input type="checkbox"/>	Medium	Done	EV.6.2.2 EV.6.2.3 In EV toolbox drawer if we need
Lid	Add nomex to inside of lid border walls		<input type="checkbox"/> Measure and design the pieces to cover the walls <input type="checkbox"/> Laser cut pieces <input type="checkbox"/> Glue into lid	Low	Needs to be assigned	Boards are touching walls of lid lol, some has been completed but putting some all inside the lid is a good idea...
Box	Bolt down modules		<input type="checkbox"/> Safety wire the handles for each module <input type="checkbox"/> Safety wire the bottom of the modules	High	Needs to be assigned	duh
Lid	Bolt down acc lid		<input checked="" type="checkbox"/> Bolt lid down	High	Done	Double duh
Lid	Shielding AIRS		<input checked="" type="checkbox"/> ACC - TS cover for AIRs as they are exposed and close to each other <input checked="" type="checkbox"/> Contactors - GLV for the coil, needs sepration & kapton	Medium	Done	Stuff is too close. Might need covers/walls, 3d printed maybe... or something else The nomex walls that are now on there
Lid	Interlock		<input type="checkbox"/> Put proper connector we got in on?	Low	Needs to be assigned	It's soldered rn

Manufacturing

System	Project	Assigned to	Item/part	Quantity	Stock	Drawing complete? (CAD)	Machine type	Machined/Obtained	Assembled?	Completed (on the car)	Notes
Lid	Busbars		HV_POS_1	1	Yes	Yes	WJ	Yes	Yes	Y	
Lid	Busbars		HV_POS_2	1	Yes	Yes	WJ	Yes	Yes	Y	
Lid	Busbars		HV_NEG_1	1	Yes	Yes	WJ	Yes	Yes	Y	
Lid	Busbars		HV_NEG_2	1	Yes	Yes	WJ	Yes	Yes	Y	
Lid	Busbars		HV_NEG_3	1	Yes	Yes	WJ	Yes	Yes	Y	
Modules	Pole module covers		Pole covers	12	No	No	3D Printer	Y	Y	Y	Printed
Box	HV Wiring to end of line connections		HV Surlock holders (Pole module holder)	1	No	Yes (STL)	3D Printer	Y	Y	Y	
Lid	Reusing old AIRs		AIRS_Mount	1	Yes	Yes	WJ	Y	Y	Y	

Lid	Reusing old AIRs		AIRS_NEG-bus	1	Yes	Yes	WJ	Y	Y	Y	
Lid	Reusing old AIRs		AIRS_POS-bus	1	Yes	Yes	WJ	Y	Y	Y	
Box	Fans		3 Fan mount	1	Yes	Yes	3D Printer				
Box	Fans		2 Fan mount	1	Yes	Yes	3D Printer				

COTS											
System	Project	Assigned to	item/part	Quantity	Order list submitted by lead?	Order list submitted to Lousie?	Order list submitted by Louise?	On KSS? (being transferred)	Obtained	Notes	
Box	Cooling fans		Cooling fans	5	Yes			No			

PRIORITY

Low

Medium

High

- Teal - ready to be made
- Green - machined/obtained
- Orange- waiting for stock arrival
- Yellow - need designer input
- Magenta - needs Water Jet

- ☒ - Rear to wire
- ☒ Motor controller
- ☒ Re4r5
- ☒ Pdu power
- ☒ Pdu outs
- ☒ Resolver
- ☒ Fire wall BH connector
- ☒ Acc in conn
- ☒ Switch panel conn
- ☒ Estops
- ☒ Batt wire
- ☒ **Brake light**
- ☒ Fans
- ☒ Pump
- ☒ Rad fan?
- ☒ Inverter pinout

Energy meter conn (harness used to check)	Ethan	<ul style="list-style-type: none"> ✓ Diagram ✓ Make □ Sheath □ check 			Find here (tech inspection-> electric vehicles -> Engery meter resources -> manual) https://www.fsaonline.co.uk/cdweb/gen/Document8#sources.aspx
Charger + harness	Ed ed and Eddie + bryce and Marco leadin the charge	<ul style="list-style-type: none"> □ Diagram\ ✓ Add fans ✓ Add a 12 vot supply that powers the car ✓ Instal the reset button on to charger ✓ Remove the AC outout □ Make □ Sheath □ Check □ □ 			To charge for the moment need to just place the pins on to the main connector with kapton tape Need to order main IO connector
MDB	Val	<p>All made</p> <p>Needs normalcy checks for each</p> <ul style="list-style-type: none"> ✓ 1 ✓ 2 ✓ 3 ✓ 4 ✓ 5 ✓ 6 <p>Example module</p> <p>Needs contunity testing for each harness. Temo and harneso</p> <ul style="list-style-type: none"> ✓ 1 ✓ 2 ✓ 3 ✓ 4 ✓ 5 ✓ 6 <p>Example module</p> <ul style="list-style-type: none"> ✓ Needs conformal coating ✓ Take off r4 & R3 on board 6 <ul style="list-style-type: none"> □ Put it on board 3 ✓ Make #2 the example mod. Put the example mod on 2 □ Dam code 	TOP		<ul style="list-style-type: none"> □ ★ Check on where MAX1487BAWE+ From the mouser order is. From ->https://www.mouser.com/ProductDetail/230-MAX1487BAWE%20 □ Code semi works, did bodgees, need to finish bodgees and get other boards fixed
GLV Car main fuse	Pls make better		Low		Not the acc main fuse
VCU adaptor plate Inertia switch	Mihai	<ul style="list-style-type: none"> ✓ Cad based on old VCU mount ✓ Jet ✓ instal ✓ Find switch ✓ Wire switch ✓ Mount switch 		done	Use VCU box hoels Make plastic plate to adapt to old vcu
Need to remove DT & DTMs off old Harnesses	Heily Anyone	IC harnesses EV harnesses		Done	
Break light	Val/Mihai	<ul style="list-style-type: none"> ✓ Pined ✓ Sheilthed ✓ Pined on car ✓ Needs bracket <ul style="list-style-type: none"> ✓ Make Tabs □ Need Waterjetted pls ✓ Fully on car 	yes	DONE	□ Takw ic break light mount nake it Ev spacial
RTD Buzzer	Needs welder	<ul style="list-style-type: none"> ✓ Cad tabs ✓ Jet tabs ✓ Mount buzzer <ul style="list-style-type: none"> ✓ Put the buzzer on after body tabs are full welded ✓ Wire buzzer 	mid	Done	
PDU v2	Justin	<ul style="list-style-type: none"> □ Check path □ Make sure placement makes sence □ Make sure theres an overcurrent protection □ Revers Polarity paroexction □ Make sure traces are rated for the current/voltage □ Mounting holes □ Rounded cornors □ Make sure print mask is big enuf □ Jut the IULULULUL on the board □ Make order list □ Submit order □ Put together □ Normally check □ Test □ done 		In progress	This isnt a prority for the 31st this is later project. I made this list for just thinking on what I need to check for when justin and I sit down and work thu it.
Pedal box connections	This is just vals list	APP51 APP52 BSE breakingt		Done	The connections are already made and put together just needs to be plugged up to brays pedals when complete and in car
<ul style="list-style-type: none"> ✓ Wire Standard ✓ Conector standard □ Ziptie spacing ✓ Specific Wire Color designation 					For design
LV battery connection		<ul style="list-style-type: none"> ✓ Fix shorting bc wires touched 		Done	
Change tsal PDU PWR location		<ul style="list-style-type: none"> □ Currently under fans, needs to be moved to all time power for LV □ Documented 	mid		
Route inside of lid to comply with spacing			mid		
Untilt the tsal light	welder	<ul style="list-style-type: none"> □ Cut off mounts □ Weld tab back on (but straight!) 	low		After invitational
Fix tsal light		<ul style="list-style-type: none"> □ Repin the molex going into the board so it doesn't need to be held at a angle □ Compare schematic to old TSAL, figure out issues and get board working □ Pot or glue the tsal led board itself, cable is pulling/fatiguing molex 	high		See notes, but yea
LV battery edge protection		<ul style="list-style-type: none"> □ Pick material □ Attach to battery 	mid		
Need to calibrate BSPD		<ul style="list-style-type: none"> □ Pull out vcu from case □ Calibrate BSPD properly 	high		
Cut tsmg and add orange heat shrink to it		<ul style="list-style-type: none"> □ 	mid		
Add heat shrink to gnd		<ul style="list-style-type: none"> □ 	mid		Needs heat shrink bought

sheathing					
Ev dash carbon plate		<input type="checkbox"/> carbon plate to be the front of the dash.	Low		Pearly looks. Not important to run. Would be neat to put diffusion layer in there too?
Need to talk about if invitational is gonna rain, must rain proof	Convo between Val and Johnathan	<input checked="" type="checkbox"/> buff			Lol it didn't rain
Lora logger		<input checked="" type="checkbox"/> Board <input type="checkbox"/> Antenna extension? Placement? <input checked="" type="checkbox"/> code	mid		https://github.com/KSU-MS/ksSeLoraLogger the guy datalogs on a sd card now, but need to fix telemetry tbh
Data logging		<input type="checkbox"/> Board <input type="checkbox"/> code	mid		https://github.com/KSU-MS/KS5e-Data-Logging
Add blue can chip transceiver to MDB boards	val			Done	Lol it's a bodge
Add proper can chip transceiver to MDB boards??		<input type="checkbox"/> See if it's worth time to put proper can chips on (code) <input type="checkbox"/> Change the code & get one working on bench <input type="checkbox"/> Redo the boards and get them talking in code	low		Hmmmm, one pad is gone maybe? See if it's good and worth the time to do so

Need to learn the motor calibration

Can BUSS FOR FEED BACK AND CAN TO mdb BOARDS

BSPD
Need to run fell active
AMS Temp side if false data
AMS bspd is fine
Lid interlocks are bye passed.
Need to get into RTD

COTS									
Project	Assigned to	Item/part	Quantity	Order list submitted by lead?	Order list submitted to Louise?	Order list submitted by Louise?	On KSS? (being transferred)	Obtained	Notes

Project	Assigned to	Task list	Priority	Status	Notes
TSMP conn		Pin in to conn separate			
Shutdown loop		Main DC out In from HV kill In from other			
AVI light					
Energy meter		Pin Check outer harness			
Hall sensor					
Bottom wires					
Mod boards wire					
BMS					

- Code:
ADD a heart beat for all the boards
- VCU

☐ Using the old VCU and modifying the code for what we need
- ACU

☐ Load up old code see if it will work and change to what we need

☐
- MDB (this one is completely new)

☐ Look at old code for Mux reference

☐ Look at code of how to do initialize the CAN chip

☐ Humid and temp sensor EXAMPLE code in LV MDB section

☐

- ☐ Ev Dash
- ☐ See what's in GitHub(don't completely trust tho)
- ☐ Led pulling hig but needs to be pulled low
- ☐ Load and debug what needs to do
- ☐
- ☐ Recharge discharge
- ☐ It works? Need to acctually ready values out of it
- ☐

- ☐ Ic dash
- ☐ Led driver code ting?
- ☐ Parcer

Vehicle Dynamics

Monday, January 23, 2023 2:03 PM

Project	Assigned to	Task list	Priority	Status	Notes
Pedal Box	Bray	<input checked="" type="checkbox"/> • Welding tabs for rear end of master cylinder <input checked="" type="checkbox"/> • Custom reservoir pieces need to be sized and made <input checked="" type="checkbox"/> • Potentiometers can be attached <input checked="" type="checkbox"/> • Brakes can be bled	A	In Progress	
Head rest		<input checked="" type="checkbox"/> Cut carbon tube <input checked="" type="checkbox"/> Machine Tube Inserts <input checked="" type="checkbox"/> Bond insert into tube (Done 9:32 am 03/09/2023) <input checked="" type="checkbox"/> Weld Steel mount to chassis <input checked="" type="checkbox"/> Bolt in to tube	A	Complete	
Floor Pan		<input type="checkbox"/> Install after pedal box complete			
Anti Intrusion Plate		<input checked="" type="checkbox"/> Weld <input checked="" type="checkbox"/> Weld			
Impact Attenuator		<input type="checkbox"/> Prep Plate <input type="checkbox"/> Bond ton AIP			
Driver Leg Protection	sam	<input type="checkbox"/> Protect inside cock pit leg room with foam from sharp edges			
Seat Belts		<input type="checkbox"/> Tabs need to be tacked and welded <input type="checkbox"/> Belts need to be run through on ECar			
Steering Column Spacer	Emil	<input checked="" type="checkbox"/> Dimensions <input checked="" type="checkbox"/> CAD <input checked="" type="checkbox"/> Manufactured			
Bell Crank Bushing and Spacer	Emil	<input type="checkbox"/> Dimensions <input type="checkbox"/> CAD <input type="checkbox"/> Manufactured			

Manufacturing

Project	Assigned to	Item/part	Quantity	Stock	Drawing	Machine	Machined/	Assembled?	Completed (on the car)	Notes
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					<i>complete? (CAD)</i>	<i>type</i>	<i>Obtained</i>			
Pedal Box										

COTS

<i>Project</i>	<i>Assigned to</i>	<i>item/part</i>	<i>Quantity</i>	<i>Order list submitted by lead?</i>	<i>Order list submitted to Lousie?</i>	<i>Order list submitted by Louise?</i>	<i>On KS5? (being transferred)</i>	<i>Obtained</i>	<i>Notes</i>