Engineering Change				
Original	Part/Drawing Name/No.	Revision No.	Part Description	ECN No.
	EML2322L-020	А	Wheel hub for Denso 150 rpm gearmotor	1
Changed	Part/Drawing Name/No.	Revision No.		Group No.
	EML2322L-020	В	Wheel hub for Entstort 44 rpm gearmotor	4B
Reason for Change After testing the robot, our group realized the Denso 150 rpm right angle motors coupled to 13.5" diameter wheels produce a robot that is too fast to control, given our ball manipulator design. Consequently, we decided to change the hub design so it is compatible with the 44 rpm Entstort motor shaft.				
Description of Change Since the 44 rpm Entstort motor shaft possesses splines, we are modifying the hub design shown in Revision A to engage these splines; this is accomplished by drilling a ϕ 0.394" (10mm) stepped bore into the motor-side of the hub, as shown in Revision B . The threaded portion of the motor shaft passes through the center hole which measures ϕ 0.315" (or 8 mm) and a ϕ 0.75" counterbore is added on the wheel-side of the hub to allow a nut to be inserted onto the threaded motor shaft and tightened with a socket.				
Affected Documents & Parts Purchase Order (s) Other Parts (List Names): Assembly Drawing (s) Bill Of Materials (BOM)				
Originator N	ame (#)	Signature		Date
James Keit		James Keith		6/22/11
Approval				
Requiremen	Is the ECN filled out complete Is the Original Drawing attac Is the Updated Drawing attac	hed?	 Yes Yes No Yes No Yes No 	Due Date 6/29/11
Is the Due Date understood by the team?				
Execution	A – Modify Existing PartB – Create New Part		 C – Scrap Existing Part (If Manufacturing already commenced) B – Delete Existing Part (If Manufacturing hasn't commenced) 	
Group Member Name (#2)		Signature		Date
Adam Glintz		Adam Glintz		6/27/11
Group Member Name (#3)		Signature		Date
Jeff Koch		Jeff Koch		6/27/11
Group Member Name (#4)		Signature		Date
Josh Gordon		Josh Gordon		6/28/11
TA Name		Signature		Date
Bill Hollon		Bill Hollon		6/29/11