



Item 1 & 7

Item 9

Item 13

Item 10

Item 17, 18, & 19

Item 15

Item 16

Item 14

Item 8,6,12

Item 11

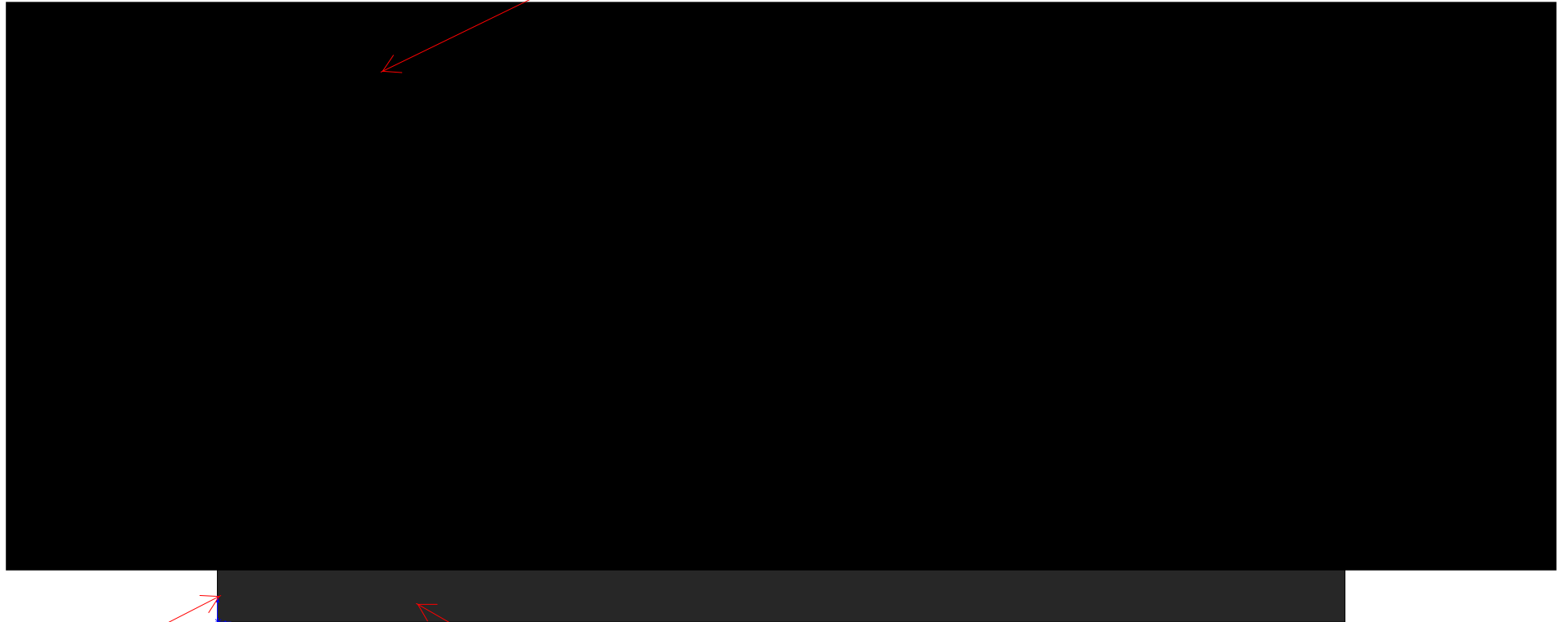
Item 5

Item 2

Item 3

"This side faces windshield"

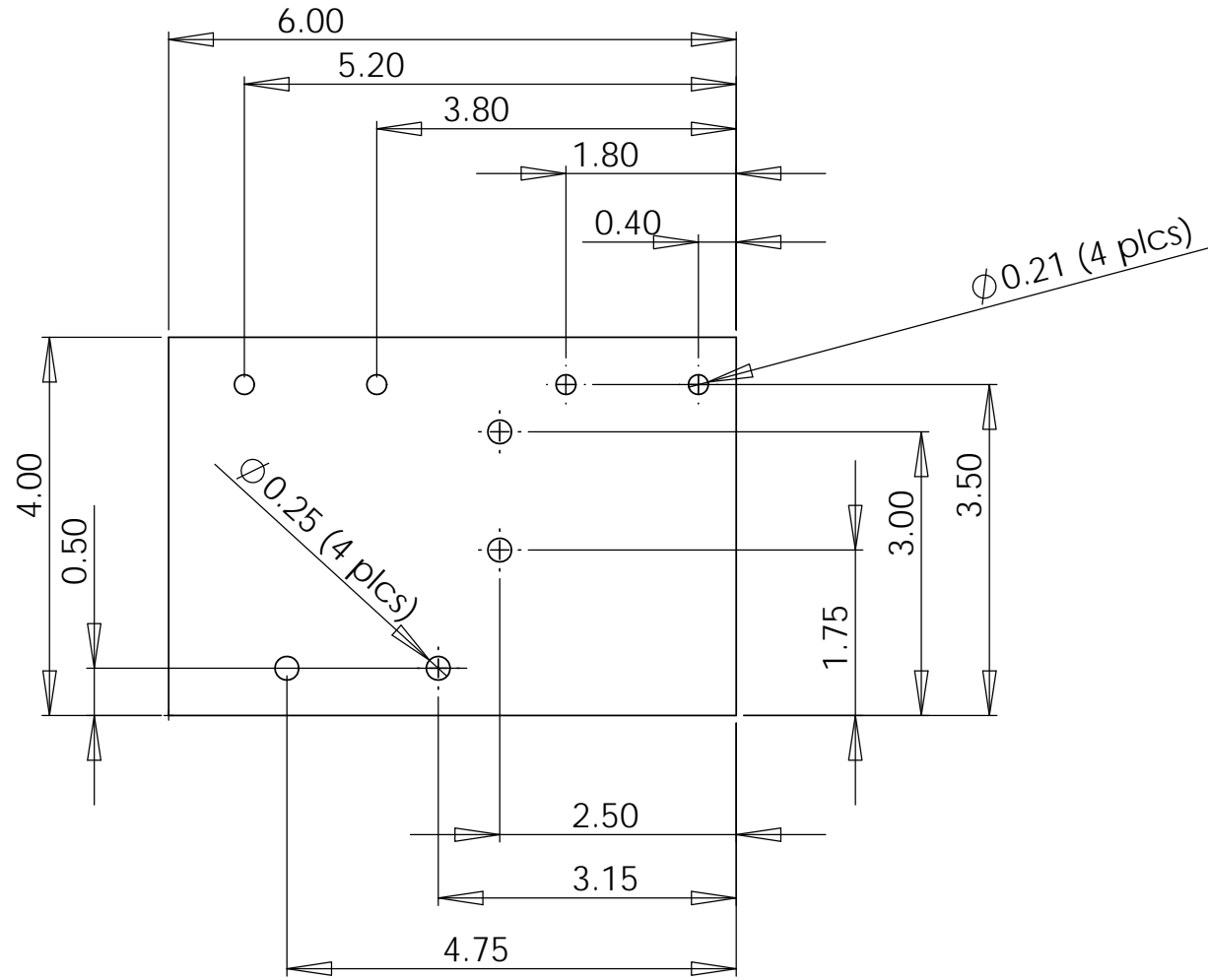
Item 3 (Felt to be glued to top of foam board)



Leave
approximately 3/8"
gap for insertion
into item 10

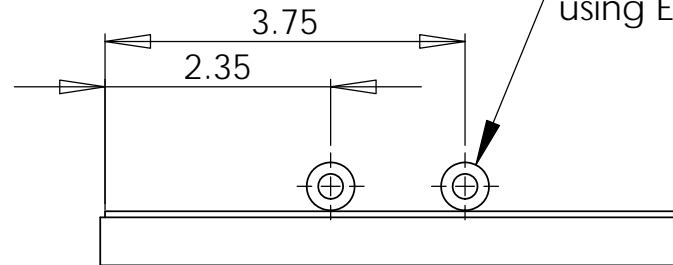
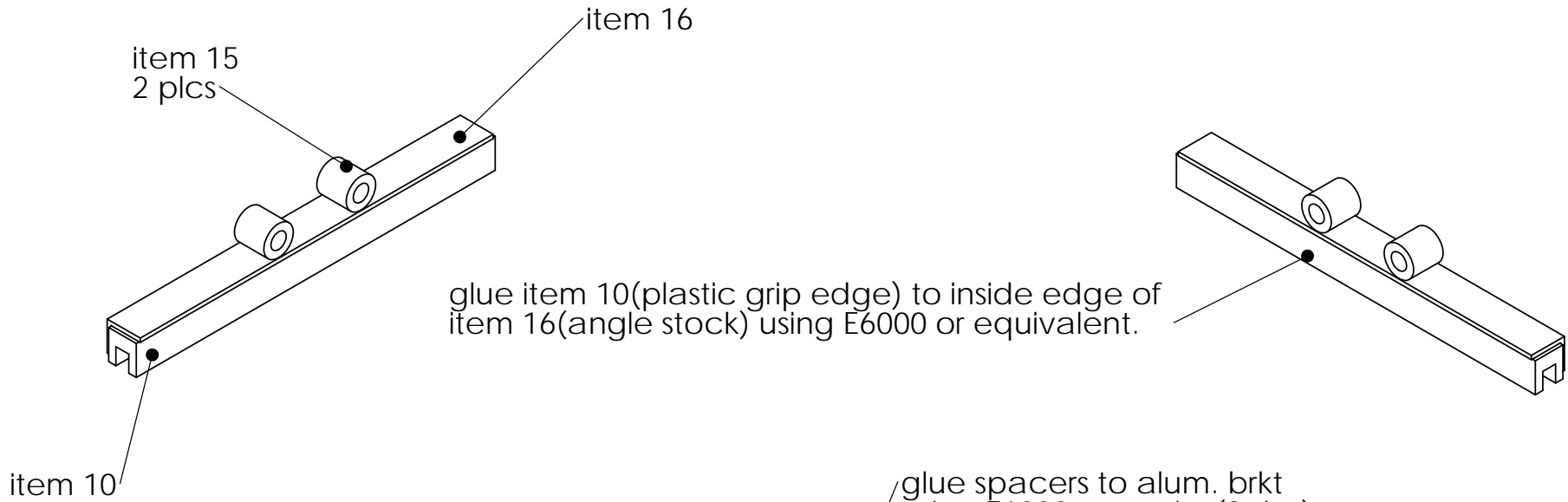
Item 2 (foam board painted black)





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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Samsung camera mtg plate_CAR								
		DIMENSIONS ARE IN INCHES	DRAWN	JMK	11/14				SIZE DWG. NO. REV					
		TOLERANCES: FRACTIONAL ±	CHECKED									SCALE: 1:2 WEIGHT: SHEET 1 OF 1		
		ANGULAR: MACH ± BEND ±	ENG APPR.											
		TWO PLACE DECIMAL ±	MFG APPR.											
		THREE PLACE DECIMAL ±	Q.A.											
		INTERPRET GEOMETRIC TOLERANCING PER:	Made from item 11 on parts list											
		MATERIAL	alum. 0.125" thk											
NEXT ASSY	USED ON	FINISH	painted flat black											
APPLICATION		DO NOT SCALE DRAWING												



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE			
		DIMENSIONS ARE IN INCHES	DRAWN	JMK	11/14	TITLE:		
		TOLERANCES:	CHECKED	JMK	11/14			
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.					
		THREE PLACE DECIMAL ±	Made from item 16 on parts list			SIZE	DWG. NO.	REV
NEXT ASSY	USED ON	INTERPRET GEOMETRIC TOLERANCING PER:				A	Angle brkt_spacers	
		MATERIAL				SCALE: 1:5	WEIGHT:	SHEET 1 OF 1
		alum. 0.125" thk						
		FINISH						
		painted flat black						
APPLICATION		DO NOT SCALE DRAWING						

Road Monitor System Parts List

12/16/2014

Item	Qty	Part Number	Description	Ref	Cost	Manufurer	
1	1	EK-GC100	Unlocked Samsung Galaxy camera 16mp, optical 21X, 23mm wide zoom lens	1	\$438.00	Samsung	
2	1		3"w x 8"l x 0.125" thk foamboard (poster bd) painted blk	2			
3	1	HOTP-10358	4"(W) x 11"(L) Blk Felt (suede) sold at Pat Catan's in 8.5"x11" sht. UPC# 35788 10358 2	3	\$1.47	Hot off the press Inc. Canby Ore. www.paperpizazz.com	www.paperpizazz.com
4	1	ABWLS011	micro USB car charger	4	\$6.00	Amazon	
5	1	0510625-50-36	Sorbothane vibration Isolation small square pad 1/4" thick 1/2"x1/2' 50 duro 36pk	5	\$23.00	The Vibration Solution, LLC /isolate IT	
6	1	0576170-30-12	Sorbothane vibration Isolation bushing 30 duro (0.28"i.d.x0.72"o.d.x0.22"thk) 12pk	6	\$15.00	The Vibration Solution, LLC /isolate IT	
7	1	SDSDQUA-064G-U64A	64Gb microSDXC San disk ultra memory card	7	\$50.00	SanDisk	
8	1	323	RC2 Rapid connect adapter w/200pl-14 quick release plate	8	\$33.00	Manfrotto	
9	1	Model 809	3.4" dia. suction cup camera mount	9	\$30.00	PanaVise	
10	1	8451A53	self gripping plastic edge trim 5/64"-13/64" i.s. width black (12")	10	\$1.31	Mcmaster carr	
11	1	8975K418	4"w x 6" x 0.125" thick 6061 alum. Plate	11	\$3.24	Mcmaster carr	
12	1	92949A537	1/4-20 x 0.5" button hd screw b x/50	12	\$5.70	Mcmaster carr	
13	1	3201T12	"U" bolt - blk oxide steel 1/4-20 threads.for 1" o.d. x 1.75" h	13	\$0.78	Mcmaster carr	
14	1	9023K18	1/2"sq x 2" x 36"L 60A durometer neoprene rubber	14	\$25.48	Mcmaster carr	
15	1	94639A146	0.5"o.d. x 0.26" i.d. x 1.00" lg nylon unthreaded spacer (cut in half) bx/100	15	\$10.28	Mcmaster carr	
16	1	8982K54	alum. 90deg angle 1/2" x 1/2" x 1/16"thk (1 ft)	16	\$0.87	Mcmaster carr	
17	2	91251A199	8-32 x 1", blk oxide alloy steel socket hd cap screw (bx/50)	17	\$7.50	Mcmaster carr	
18	2	90618A400	#8 washer, blk oxide 300 series s.s. (bx/100)	18	\$5.00	Mcmaster carr	
19	2	91841A009	8-32 hex nut 18-8 s.s. 11/32w x 1/8"h (bx/100)	19	\$3.81	Mcmaster carr	
		Subtotal			\$660.44		

Road monitoring camera system assembly instructions

1. Cut piece of 0.125" thick foam board (item 2) to a size of 3"(W) x 8"(L) and spray paint, flat black.
2. Cut item 3 (black felt) to a size of 4"(W) x 11"(L).
3. Cut item 10 (plastic grip edge) to 6" length.
4. Modify item 11 (4"(W) alum. plate) according to "mounting plate" drawing and spray paint, flat black.
5. Cut item 15 (1" unthreaded nylon spcr) in half, 0.5"(L).
6. Cut item 16 (1/2"x1/2"x1/16"thk rht angle alum.stock) to 6" (L) and spray paint, flat black.
7. Glue modified item 15 (0.5" spacer) to one side of modified item 16 (6" blk rht angle alum.) using E6000 (multi purpose self leveling adhesive) or equivalent at 2.35" and 3.75" in from edge of alum. (NOTE: see drawing - "angle brkt_spacers")
8. Leave approx. 0.375" from long edge of it. 2(painted foam board) and glue modified it. 3(blk felt) to one side of it. 2(painted foam bd) using E6000 (multi purpose self leveling adhesive), a spray adhesive or equivalent.(See pg 2 of 6).
9. Glue item 10(plastic grip edge) to inside edge of item 16(painted angle stock) using E6000 (multi purpose self leveling adhesive), spray adhesive or equivalents.
10. Cut item 14 (rubber strip) to a 2" length.

AFTER ALL GLUES AND ADHESIVES HAVE SETUP AND DRIED PROCEED WITH STEPS BELOW

11. Insert bare edge of foam board(item 2) with attached felt(item 3) into plastic edge trim(item 10) that is attached to painted aluminum angle(item 16).
12. Mount alum. Plate (Item 11) to Rapid connect adapter(item 8) using 1/4"x20 button hd screw (item 12), Sorbothane vibration Isolation square pad(item 5) and bushing(item 6).
 - A. Insert 1/4"x20 screw thru item 6 bushing then thru center hole in plate.
 - B. Place bushing (item 6) on other side of plate over screw shaft.
 - C. Loosely attach screw onto rapid connect adapter (item 8)
 - D. Place qty 1 isolation pad (item 5) below the release lever of the rapid connect adapter (item 8), between (item 8) and the plate(item 11).
 - E. Place qty 1 ea. isolation pad (item 5) between plate (item 11) and rapid connect adapter (item 8) at the corners (far right and left side facing front and item 16).
 - F. Tighten screw until isolation pads start to deform.
13. Insert U bolt (item 13) into middle holes of plate, lightly screw on 1/4x20 nuts.
14. Add item 14 (cut rubber strip 1/2" x 3/4" x 2") under "U" bolt, between item 11(alum, plate) and item 9 (suction cup mount) and tighten screws. (Note: remove the metal "camera mount adapter, unscrew and rotate angle bracket 180 degrees. Re-attach and screw in angle bracket.)
15. Attach modified items 15 &16 onto plate (item 11) using items 17, 18 and 19.