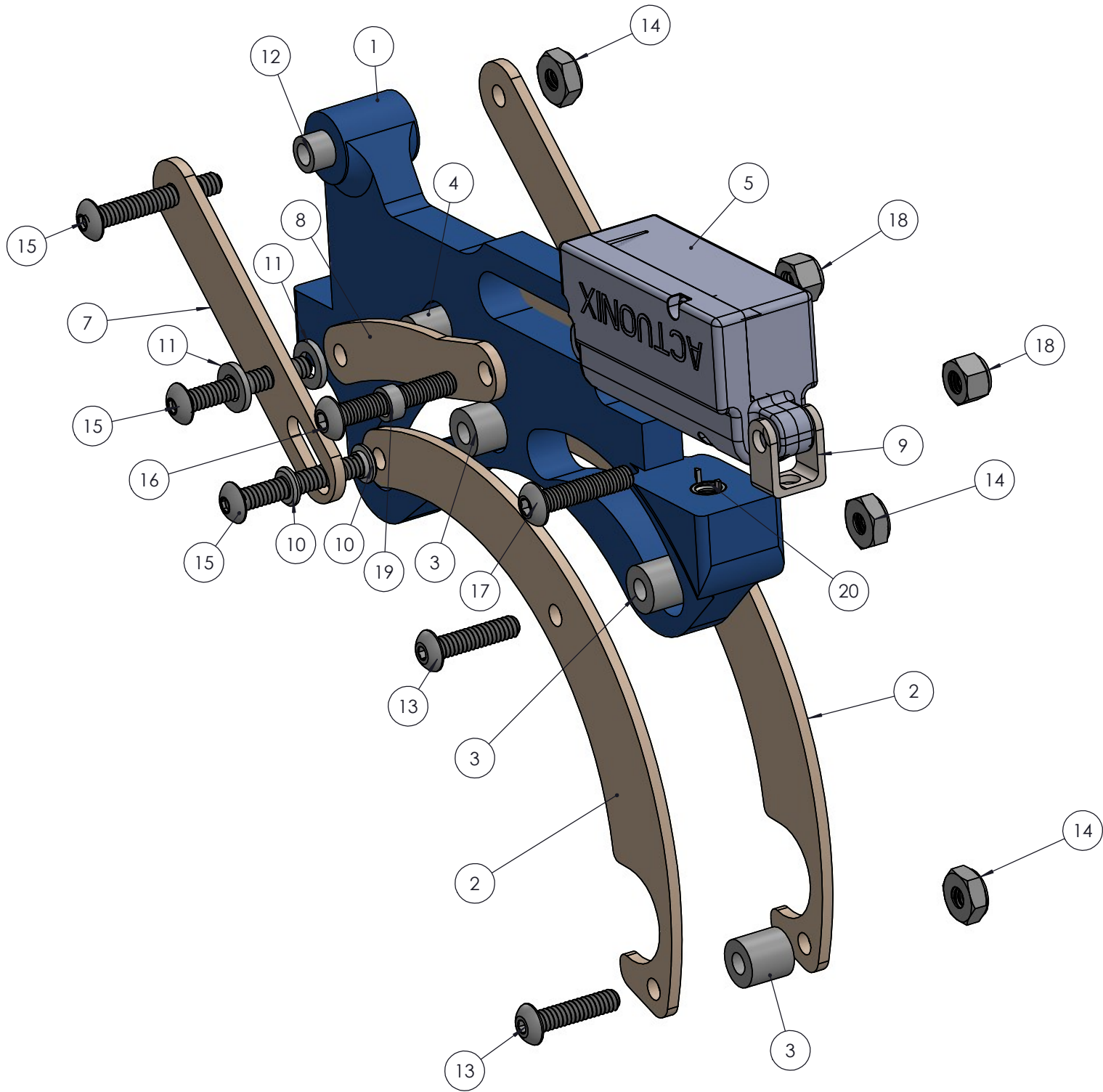


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| REVISIONS |             |            |          |
|-----------|-------------|------------|----------|
| REV.      | DESCRIPTION | DATE       | APPROVED |
| B         | XX          | XX/XX/202X |          |
| C         | XX          | XX/XX/202X |          |



| ITEM NO. | PART NUMBER                     | DESCRIPTION                                          | QTY. |
|----------|---------------------------------|------------------------------------------------------|------|
| 1        | 100221414-52-B_2XSupportBracket | MBARI actuator support bracket, CNC aluminum version | 1    |
| 2        | 100221414-53-A_2XSidePlate      | MBARI actuator side plate                            | 2    |
| 3        | 92510A422                       | #4x0.250x0.250OD_AlumUnthreadedSpacer                | 3    |
| 4        | 92510A692                       | #4x0.250_0.1875OD_AlumUnthreadedSpacer               | 1    |
| 5        | PQ-12-20_10300.stp              | actuator part                                        | 1    |
| 6        | LIFT_10300_NS.stp               | actuator part                                        | 1    |
| 7        | 100221414-54-A_ActuatorThrowArm | MBARI actuator throw arm                             | 2    |
| 8        | 100221414-55-A_ActuatorLinkArm  | MBARI actuator link arm                              | 2    |
| 9        | PQ12_MountBracket               | Actuonix included part                               | 1    |
| 10       | 93835A320                       | #4_PTFE_ShoulderWasher                               | 4    |
| 11       | 95630A435                       | #4_PTFE_FlatWasher                                   | 4    |
| 12       | 92510A698                       | Aluminum Unthreaded Spacer                           | 1    |
| 13       | 98164A065                       | #4-40x0.50_316_ButtonHeadSocketScrew                 | 2    |
| 14       | 90101A004                       | #4-40_18-8_ThinLocknut                               | 5    |
| 15       | 92949A113                       | #4-40x0.750_18-8_ButtonHeadScrew                     | 3    |
| 16       | 92095A472                       | M3x0.5x18mm_18-8_ButtonHeadSocketScrew               | 1    |
| 17       | 92095A168                       | M3x0.5x14mm_18-8_ButtonHeadSocketScrew               | 1    |
| 18       | 94205A220                       | M3x0.5_316_NylokNut                                  | 2    |
| 19       | 94669A212                       | M3x2mmAlumUnthreadedSpacer                           | 2    |
| 20       | 93904A300                       | #6-32_18-8_KeyLockTappingInsert                      | 2    |

NOTE 1. SOLID MODEL LOCATION:  
\\atlas\ProjectLibrary\902001\_4K\_ROVCameraDevelopment  
\\EngineeringDesignDocuments\MechanicalDesign\4K\_CameraChassis\100221414-56-A\_2XActuatorAssembly.SLDASM

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Shop / Q.C.

Inspector

Shop Foreman

Engineer

NEXT ASSY Description

NEXT ASSY Number

APPLICATION

BILL OF MATERIALS  
UNLESS OTHERWISE SPECIFIED  
TOLERANCES ARE:

1 PLACE DIM ±.010 2 PLACE DIM ±.005 3 PLACE DIM ±.003 ANGLE ±°

1. DIMENSIONS ARE IN INCHES.  
2. DIMENSION LIMITS HELD AFTER PLATING.  
3. REMOVE BURRS AND SHARP EDGES .015 MAX.  
4. MACHINED FILET RADI .015-.020.  
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005  
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.

DO NOT SCALE DRAWING

APPROVALS

DATE

DRAWN MRC 01/18/2021

ENGINEER MARK R. CHAFFEY (831) 775-1708 chm@mbari.org

PROJECT No. 902001

PROJECT Name 4K ROV CAMERA

WEIGHT

MBARI  
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4K CAMERA 2 X ACTUATOR ASSEMBLY

DWG. NO. 100221414-56-A-ASM

SCALE

CAD FILE:

SHEET 1 OF 1