



| ITEM | PART NUMBER | DESCRIPTION | QTY. |
|------|-------------------|------------------------------|------|
| 1 | LBPRT-HIP-001 | Hip Top Plate | 1 |
| 2 | LBPRT-HIP-002 | Hip Front/Back Plates | 1 |
| 3 | LBPRT-HIP-002 | Hip Front/Back Plates | 1 |
| 4 | LBPRT-KEY-002 | 5mm x 5mm Key | 1 |
| 5 | KGEASK15-3030-15 | Misumi Bevel Gear | 2 |
| 6 | LBSUB-MOTOR-001 | Larger Motor Assembly | 1 |
| | 3257CR | Micromo DC Motor | 1 |
| | 38A | Micromo Precision Gearhead | 1 |
| | HEDM5500 | Micromo Encoder | 1 |
| 7 | LBPRT-BUSHING-001 | Keyed Motor Bushing | 1 |
| 8 | LBPRT-KEY-002 | 5mm x 5mm Key | 1 |
| 9 | B6702ZZ | Misumi Ball Bearing | 2 |
| 10 | BA3047 | Misumi Needle-Roller Bearing | 1 |
| 11 | LBPRT-KEY-001 | 3mm x 3mm Key | 1 |
| 12 | LBPRT-FLANGE-001 | Machined Flange Component | 1 |
| 13 | LBPRT-WASHER-001 | Machined Plastic Washer | 1 |

University of Waterloo - Adaptive Systems Laboratory

AUTHOR
Safwan Choudhury
E5 5129 (ext 31475)

TITLE:
Hip (1) Subassembly Reference

MATERIAL
Aluminum 6061

SIZE ASSEMBLY NO.
A LBSUB-HIP-001

REV
4.4

SCALE: 1:1.5

WEIGHT: 1.5kg

SHEET 1 OF 2

