

2

1

| ITEM NO. | PART NUMBER | 18:1/QTY. |
|----------|-------------------------|-----------|
| 1 | Chassis | 1 |
| 2 | Wheel Leg (Front) | 1 |
| 3 | Wheel Leg (Back) | 1 |
| 4 | Motor and Gear Platform | 1 |
| 5 | Wheel Pair and Shaft | 2 |
| 6 | Motor | 1 |
| 7 | Gear Shaft (Top) | 1 |
| 8 | Gear Shaft (Bottom) | 1 |
| 9 | Gear Shaft Cap | 2 |
| 10 | Motor Spacer | 1 |
| 11 | Battery Components | 1 |
| 12 | Gear Train | 1 |
| 13 | Cargo puller | 1 |
| 14 | Side plate | 2 |

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| NEXT ASSY | USED ON |
|-----------|---------|
| | |

| UNLESS OTHERWISE SPECIFIED: | |
|--|--|
| DIMENSIONS ARE IN MM Please refer to individual parts for tolerances. | |
| MATERIAL PLA, ABS, Aluminum sheet, Steel | |
| FINISH | |
| DO NOT SCALE DRAWING | |

| NAME | DATE |
|---|----------|
| DRAWN RP | 25/01/18 |
| CHECKED | |
| ENG APPR. | |
| MFG APPR. | |
| Q.A. | |
| COMMENTS: While there also are 64:1 and 48:1 gear ratio configuration, this drawing will only feature 18:1 configuration. The components hidden in this view will be shown in the following page. | |

Isometric view

Whiteout

SIZE
A

DWG. NO.
1

REV
1

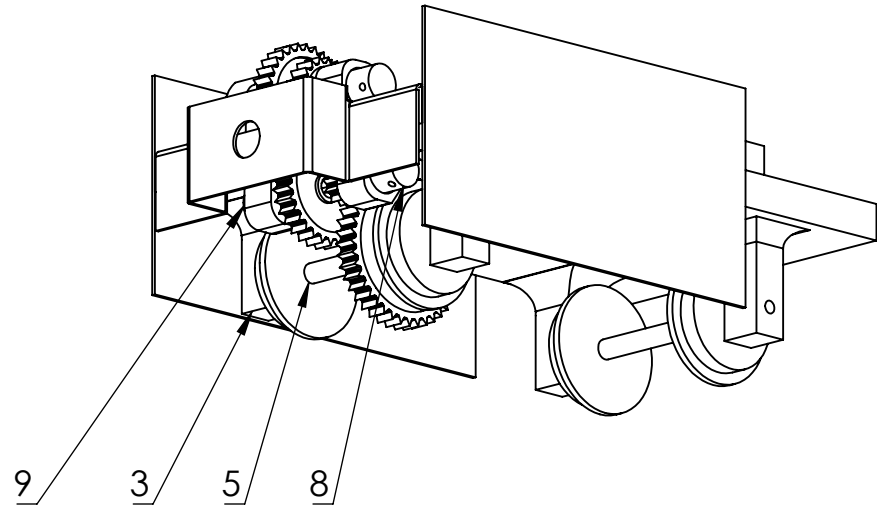
SCALE: 1:2

WEIGHT:

SHEET 1 OF 8

B

| ITEM NO. | PART NUMBER | 1:18/QTY. |
|----------|-------------------------|-----------|
| 1 | Chassis | 1 |
| 2 | Wheel Leg (Front) | 1 |
| 3 | Wheel Leg (Back) | 1 |
| 4 | Motor and Gear Platform | 1 |
| 5 | Wheel Pair and Shaft | 2 |
| 6 | Motor | 1 |
| 7 | Gear Shaft (Top) | 1 |
| 8 | Gear Shaft (Bottom) | 1 |
| 9 | Gear Shaft Cap | 2 |
| 10 | Motor Spacer | 1 |
| 11 | Battery Components | 1 |
| 12 | Gear Train | 1 |
| 13 | Cargo puller | 1 |
| 14 | Side plate | 2 |



B

A

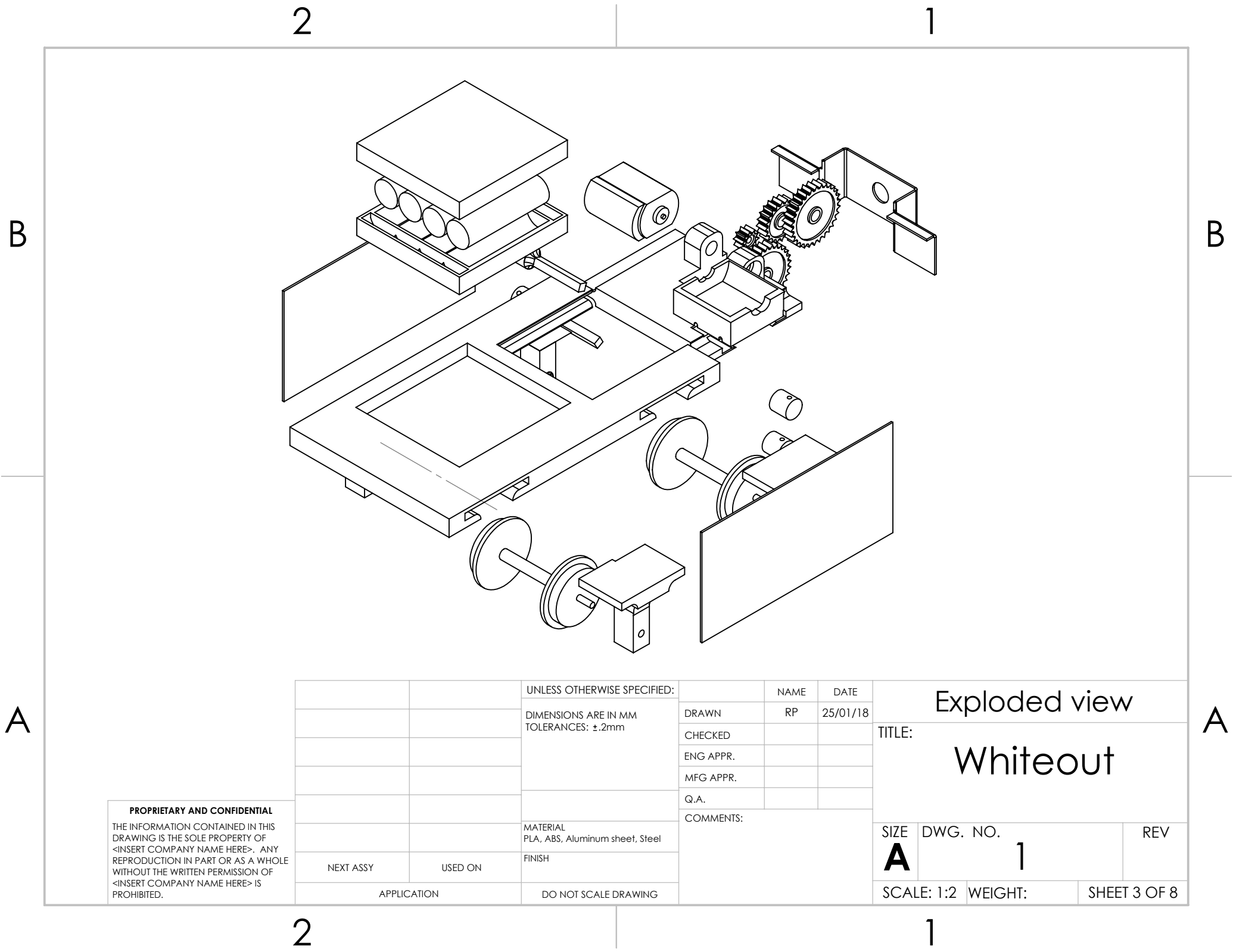
A

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| | | | | | | | | |
|-------------|-----------|--|---|------|----------|--|--|--|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | Isometric view TITLE: Whiteout | | |
| | | DIMENSIONS ARE IN MM Please refer to individual parts for tolerances. | DRAWN | RP | 25/01/18 | | | |
| | | | CHECKED | | | | | |
| | | | ENG APPR. | | | | | |
| | | | MFG APPR. | | | | | |
| | | | Q.A. | | | SIZE DWG. NO. REV A 1 1 | | |
| | | MATERIAL PLA, ABS, Aluminum sheet, Steel | COMMENTS: | | | | | |
| | | FINISH | While there also are 64:1 and 48:1 gear ratio configuration, this drawing will only feature 18:1 configuration. | | | | | |
| | NEXT ASSY | USED ON | The components hidden in this view was shown in the previous page. | | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | SCALE: 1:2 WEIGHT: SHEET 2 OF 8 | | | | | |

2

1



A

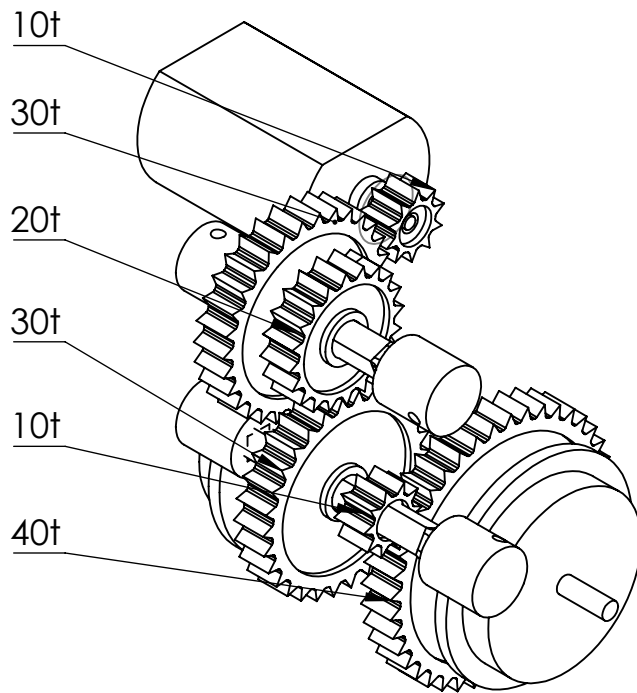
A

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| | | | | | | | | |
|-------------|---------|--|-----------|------|----------|---------------|----------|--------------|
| | | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM TOLERANCES: ±.2mm | | NAME | DATE | Exploded view | | |
| | | | DRAWN | RP | 25/01/18 | | | |
| | | | CHECKED | | | | | |
| | | | ENG APPR. | | | | | |
| | | | MFG APPR. | | | | | |
| | | Q.A. | | | | | | |
| | | MATERIAL PLA, ABS, Aluminum sheet, Steel | COMMENTS: | | | SIZE | DWG. NO. | REV |
| NEXT ASSY | USED ON | | | | | FINISH | A | 1 |
| APPLICATION | | DO NOT SCALE DRAWING | | | | SCALE: 1:2 | WEIGHT: | SHEET 3 OF 8 |

2

1



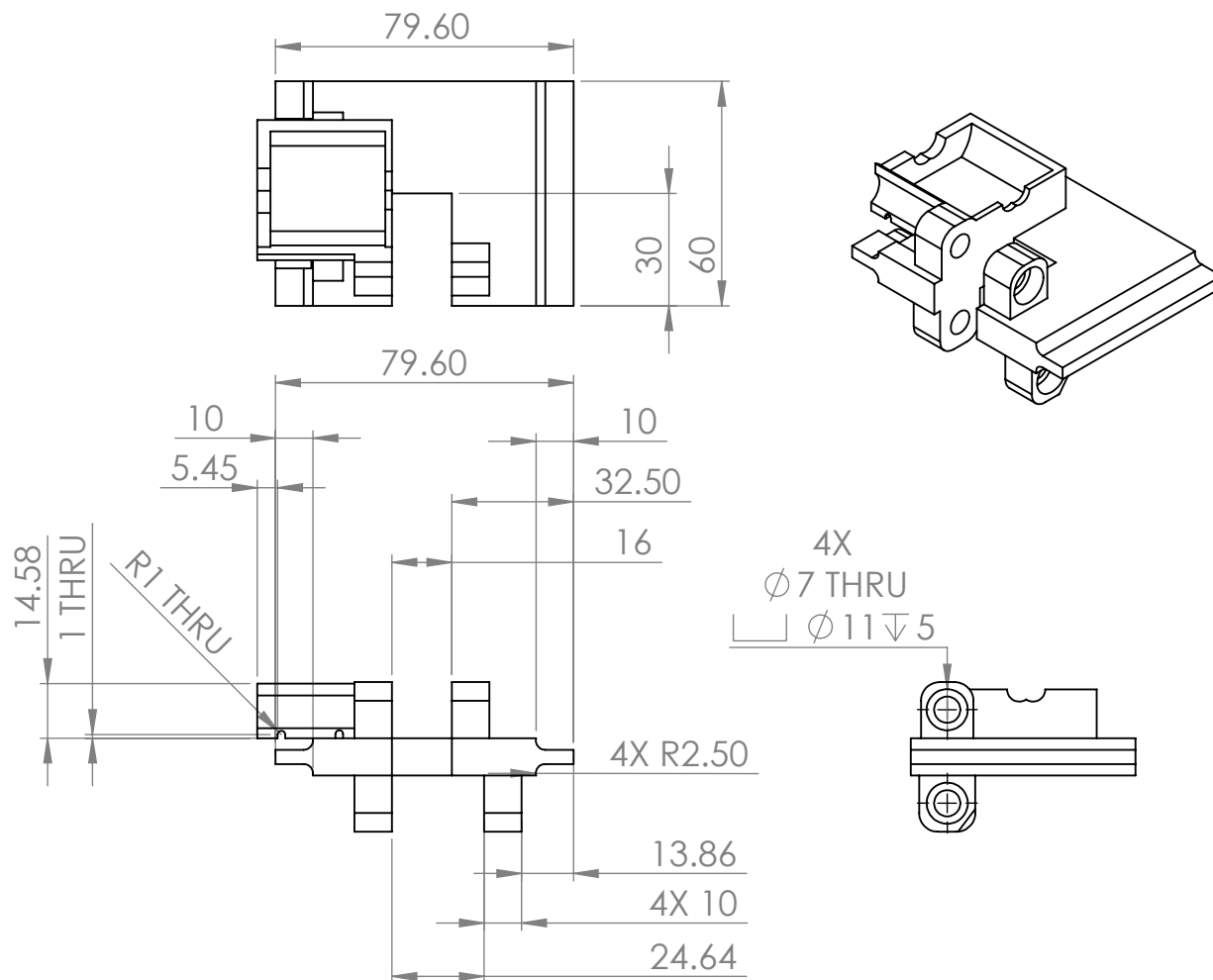
The gear ratio is 18:1, consisting of:
 10t (at motor) mesh with 30t;
 30t compound with 20t;
 20t mesh with 30t;
 30t compound with 10t;
 10t mesh with 40t (at wheel shaft)
 (t stands for teeth; ie. 10t has 10 teeth).

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| | | | | | | | | | | |
|-------------|---------|---|--|-----------|------|--|------------------|---------------|---------|--------------|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | Gear train view TITLE: <h1>Whiteout</h1> | | | | |
| | | DIMENSIONS ARE IN MM TOLERANCES: $\pm .2\text{MM}$ | | DRAWN | RP | | | 25/01/18 | | |
| | | | | CHECKED | | | | | | |
| | | | | ENG APPR. | | | | | | |
| | | | | MFG APPR. | | | | | | |
| | | | | Q.A. | | | SIZE A | DWG. NO. 1 | REV | |
| | | | | COMMENTS: | | | | | | |
| | | | | | | | | | | |
| NEXT ASSY | USED ON | FINISH | | | | | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | | | SCALE: 1:1 | | WEIGHT: | SHEET 4 OF 8 |

B

B



A

A

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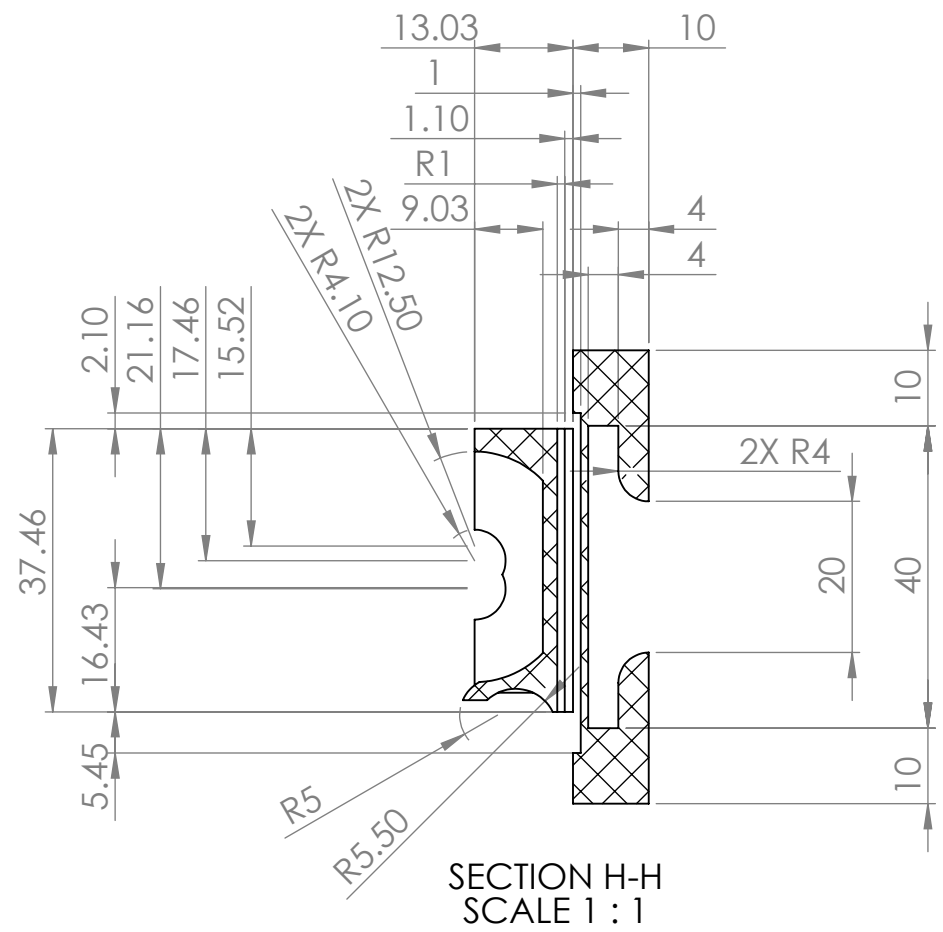
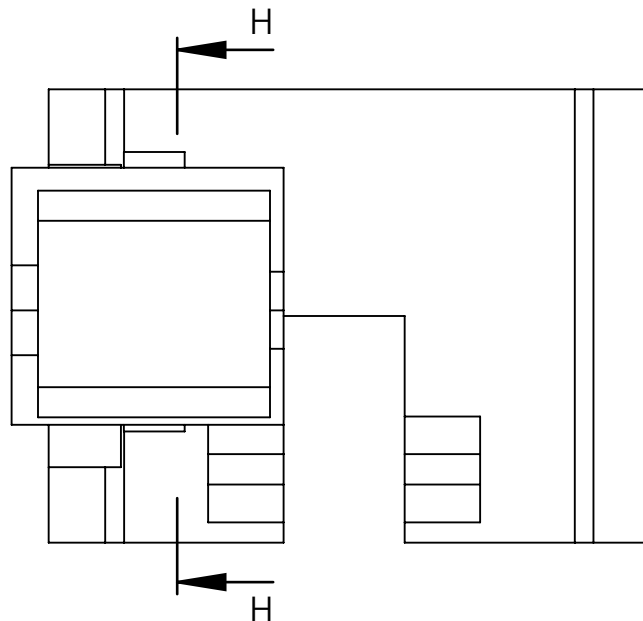
| | | | | | | | | |
|-------------|---------|---|-----------|------|----------|---|---------|--------------|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | Motor and Gear Plate TITLE: <div>Whiteout</div> | | |
| | | DIMENSIONS ARE IN MM TOLERANCES: ±.2MM | DRAWN | RP | 25/01/18 | | | |
| | | | CHECKED | | | | | |
| | | | ENG APPR. | | | | | |
| | | | MFG APPR. | | | | | |
| | | | Q.A. | | | SIZE DWG. NO. REV <div>A1</div> | | |
| | | MATERIAL ABS | COMMENTS: | | | | | |
| | | FINISH | | | | | | |
| NEXT ASSY | USED ON | | | | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | | SCALE: 1:2 | WEIGHT: | SHEET 5 OF 8 |

2

1

1

B

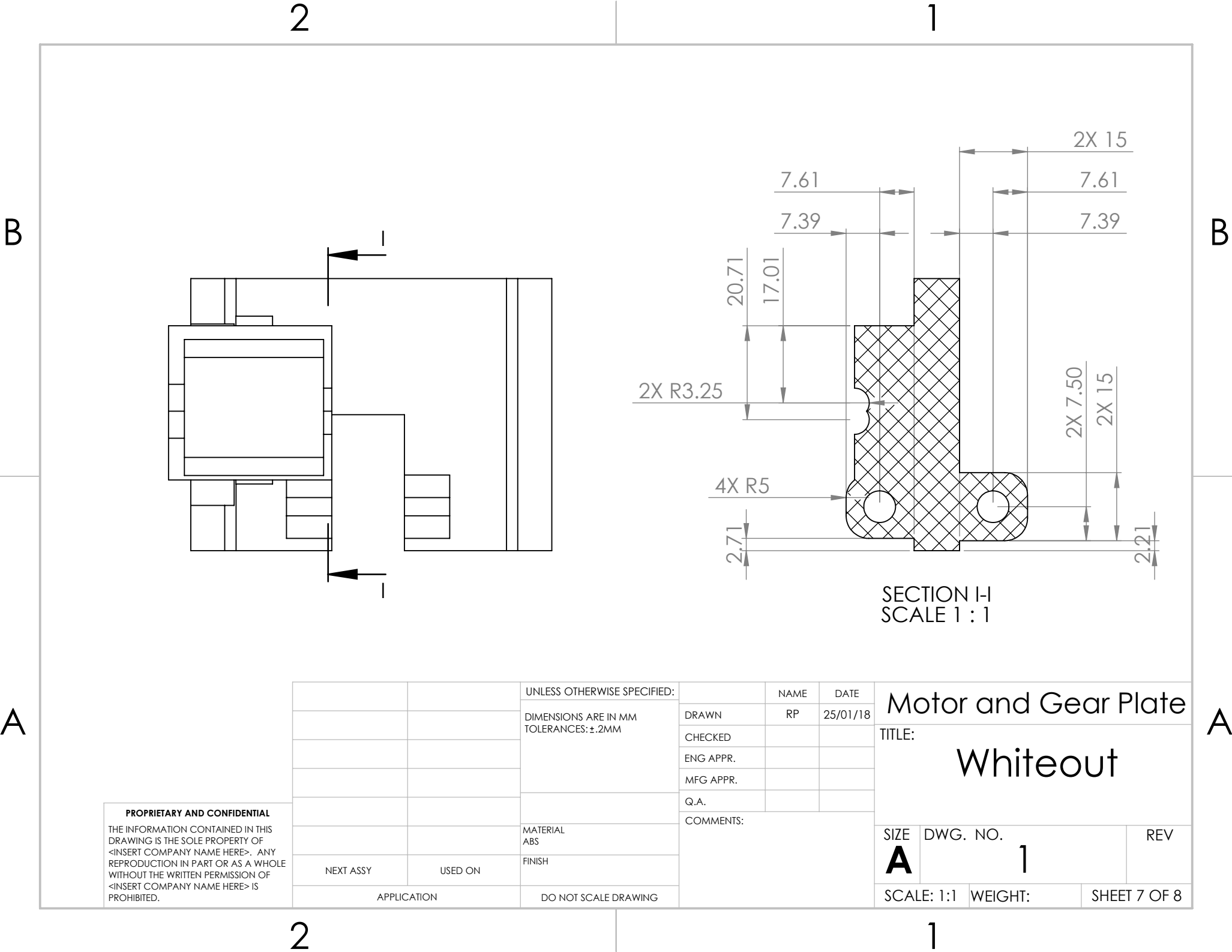


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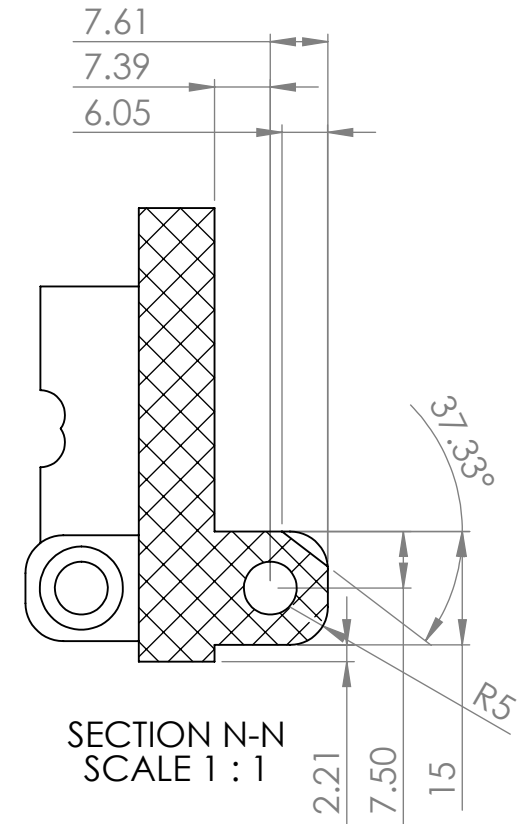
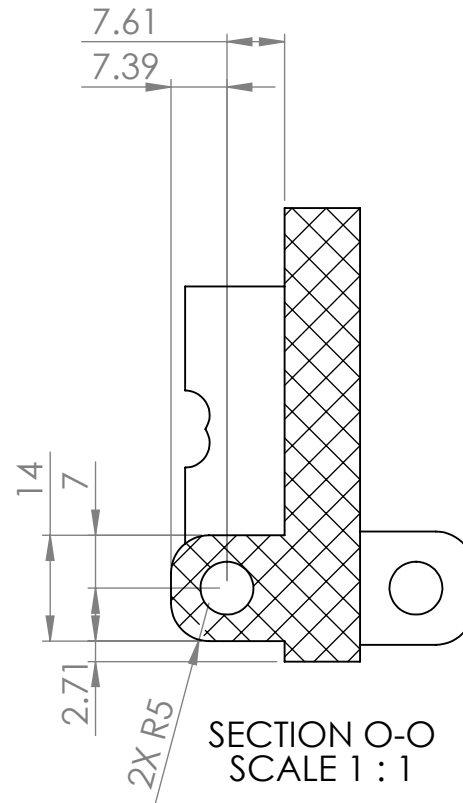
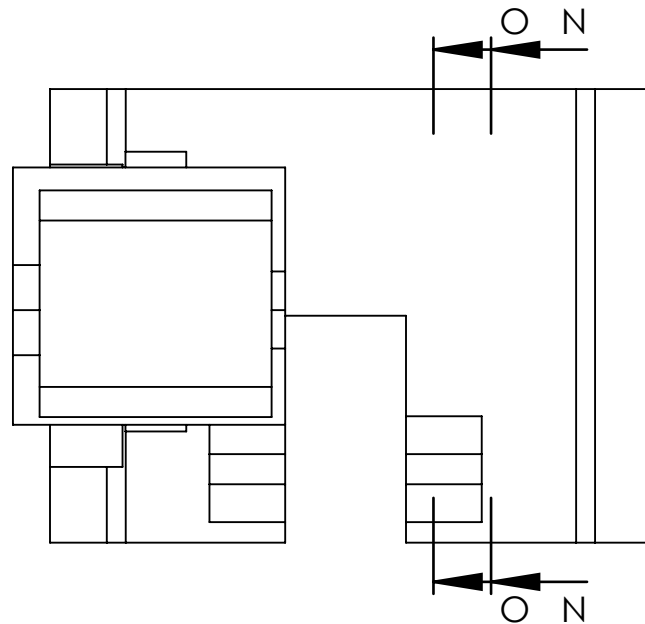
| | | | | | | | | |
|-------------|---------|--|---------------------------------------|------|----------|------------------------|--|-----|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | Motor and Gear Plate | | |
| | | DIMENSIONS ARE IN MM TOLERANCES: ± .2MM | DRAWN | RP | 25/01/18 | TITLE: Whiteout | | |
| | | | CHECKED | | | | | |
| | | | ENG APPR. | | | | | |
| | | | MFG APPR. | | | | | |
| | | | Q.A. | | | SIZE A | | |
| | | MATERIAL ABS | COMMENTS: | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| NEXT ASSY | USED ON | FINISH | | | | DWG. NO. 1 | | REV |
| APPLICATION | | DO NOT SCALE DRAWING | SCALE: 1:1 WEIGHT: SHEET 6 OF 8 | | | | | |

1



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B



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A

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| | | | | | | | | |
|-------------|---------|---|-----------|------|----------|--|---------|--------------|
| | | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM TOLERANCES: ± .2MM | | NAME | DATE | Motor and Gear Plate TITLE: Whiteout | | |
| | | | DRAWN | RP | 25/01/18 | | | |
| | | | CHECKED | | | | | |
| | | | ENG APPR. | | | | | |
| | | | MFG APPR. | | | | | |
| | | | Q.A. | | | SIZE A | | |
| | | COMMENTS: | | | | | | |
| | | | | | | | | |
| | | MATERIAL ABS | | | | DWG. NO. | 1 | REV |
| NEXT ASSY | USED ON | FINISH | | | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | | SCALE: 1:1 | WEIGHT: | SHEET 8 OF 8 |

2

1