
TOTAL PARTS SUMMARY

No.	Color	Part no.	Part name
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4	Dark-Gray	3460.DAT	Plate 1 x 8
1	Red	3709B.DAT	Technic Plate 2 x 4 with Holes
6	Black	32001.DAT	Technic Plate 2 x 6 with Holes
2	Dark-Gray	32001.DAT	Technic Plate 2 x 6 with Holes
2	Black	3705.DAT	Technic Axle 4
2	Light-Gray	3706.DAT	Technic Axle 6
1	Light-Gray	44294.DAT	Technic Axle 7
1	Black	3707.DAT	Technic Axle 8
1	Black	3701.DAT	Technic Brick 1 x 4 with Holes
2	Dark-Gray	3701.DAT	Technic Brick 1 x 4 with Holes
2	Black	3702.DAT	Technic Brick 1 x 8 with Holes
2	Black	2730.DAT	Technic Brick 1 x 10 with Holes
3	Light-Blue	32039.DAT	Technic Connector with Axlehole
1	Light-Gray	4265C.DAT	Technic Bush 1/2 Smooth
2	Light-Gray	3713.DAT	Technic Bush
2	Black	2958.DAT	Technic Disc 3 x 3 with Axlehole
4	Black	50.DAT	Technic Friction Pin with Towball
1	Light-Gray	6589.DAT	Technic Gear 12 Tooth Bevel
3	Light-Gray	3648.DAT	Technic Gear 24 Tooth
1	Orange-Solid	41669.dat	Technic Bionicle 1 x 3 Tooth with Axlehole

PARTS BREAKDOWN BY SUBMODEL

No.	Color	Part no.	Part name
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- 4 Dark-Gray 3460.DAT Plate 1 x 8
- 1 Red 3709B.DAT Technic Plate 2 x 4 with Holes
- 6 Black 32001.DAT Technic Plate 2 x 6 with Holes
- 2 Dark-Gray 32001.DAT Technic Plate 2 x 6 with Holes

1 x clutch-central-gear.ldr Clutch Central Gear

Parts for each Instance

- 1 Light-Gray 44294.DAT Technic Axle 7
- 2 Black 2730.DAT Technic Brick 1 x 10 with Holes
- 2 Light-Blue 32039.DAT Technic Connector with Axlehole
- 1 Light-Gray 3648.DAT Technic Gear 24 Tooth

1 x clutch-engage-lever.ldr Clutch Engage Lever

Parts for each Instance

- 2 Black 3705.DAT Technic Axle 4
- 1 Orange-Solid 41669.dat Technic Bionicle 1 x 3 Tooth with Axlehole
- 1 Black 3701.DAT Technic Brick 1 x 4 with Holes
- 1 Light-Gray 4265C.DAT Technic Bush 1/2 Smooth
- 1 Blue 32039.DAT Technic Connector with Axlehole
- 1 Light-Gray 6589.DAT Technic Gear 12 Tooth Bevel

1 x clutch-push-disks.ldr Clutch Push Disks

Parts for each Instance

- 1 Black 3707.DAT Technic Axle 8
- 2 Dark-Gray 3701.DAT Technic Brick 1 x 4 with Holes
- 2 Black 2958.DAT Technic Disc 3 x 3 with Axlehole

2 x clutch-slave-gear.ldr Clutch Slave Gear

Parts for each Instance

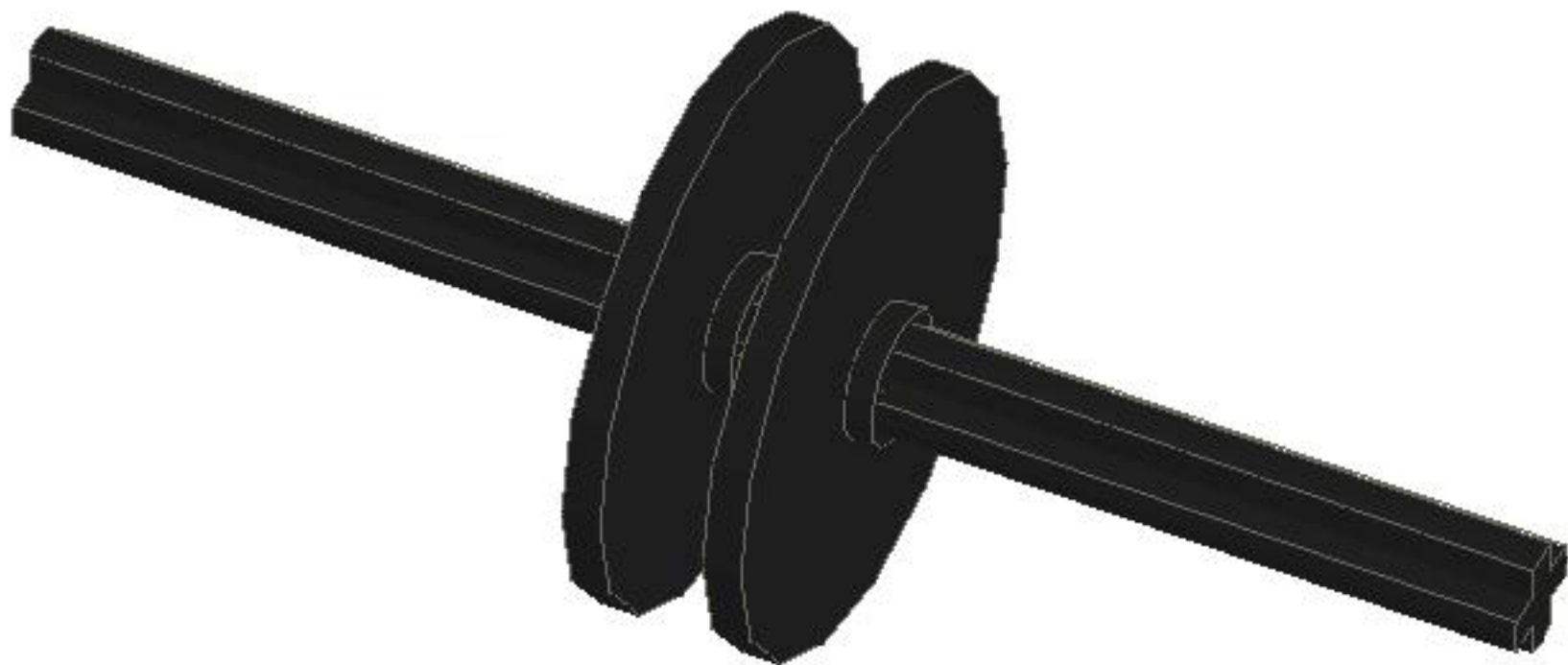
- 1 Light-Gray 3706.DAT Technic Axle 6
- 1 Black 3702.DAT Technic Brick 1 x 8 with Holes
- 1 Light-Gray 3713.DAT Technic Bush
- 2 Black 50.DAT Technic Friction Pin with Towball
- 1 Light-Gray 3648.DAT Technic Gear 24 Tooth

Clutch Push Disks

Step 1

Parts

1 Black	3707.DAT	Technic Axle 8
2 Black	2958.DAT	Technic Disc 3 x 3 with Axlehole

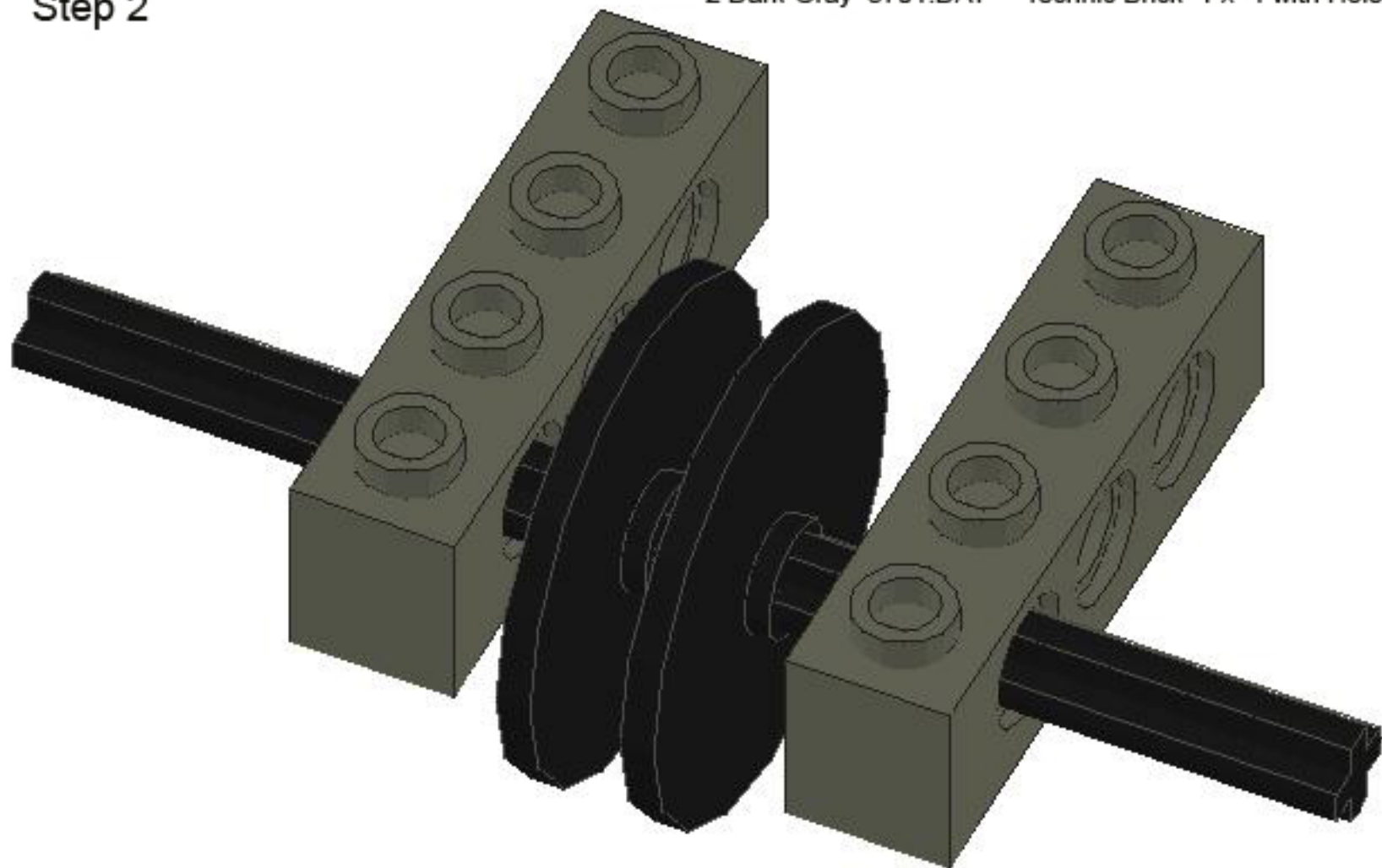


Clutch Push Disks

Step 2

Parts

2 Dark-Gray 3701.DAT Technic Brick 1 x 4 with Holes

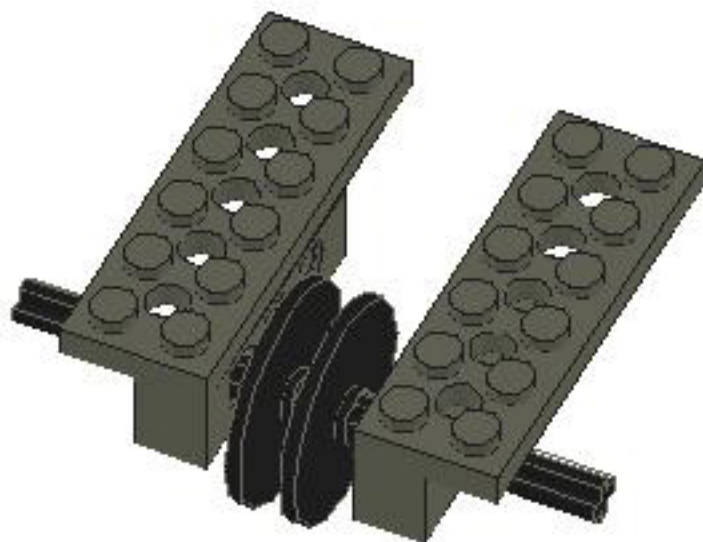


Main Clutch

Step 3

Parts

2 Dark-Gray 3460.DAT Plate 1 x 8



Main Clutch

Step 4

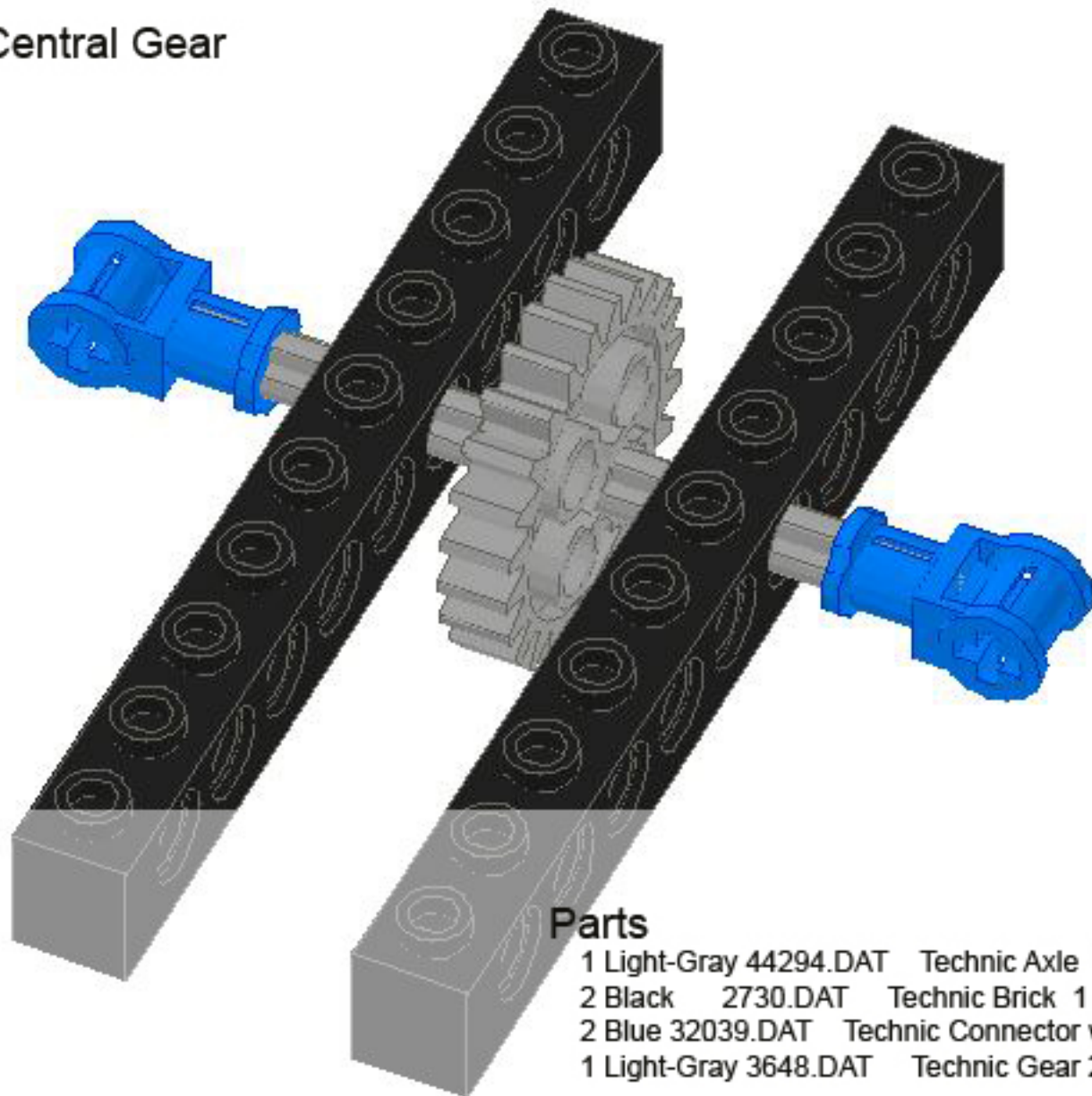
Parts

4 Black 32001.DAT Technic Plate 2 x 6 with Holes



Clutch Central Gear

Step 5



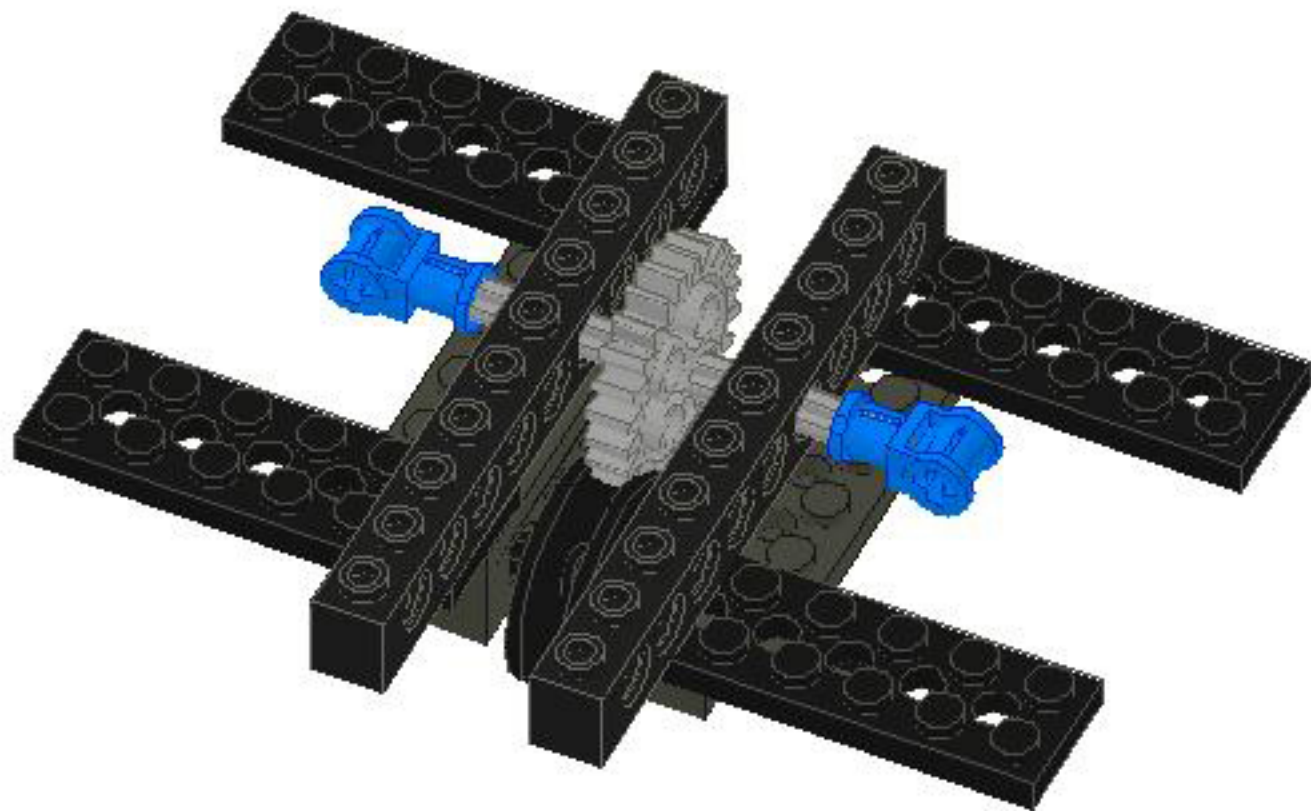
Parts

- 1 Light-Gray 44294.DAT Technic Axle 7
- 2 Black 2730.DAT Technic Brick 1 x 10 with Holes
- 2 Blue 32039.DAT Technic Connector with Axlehole
- 1 Light-Gray 3648.DAT Technic Gear 24 Tooth

Main Clutch

Step 6

Parts
Attach Clutch Central Gear

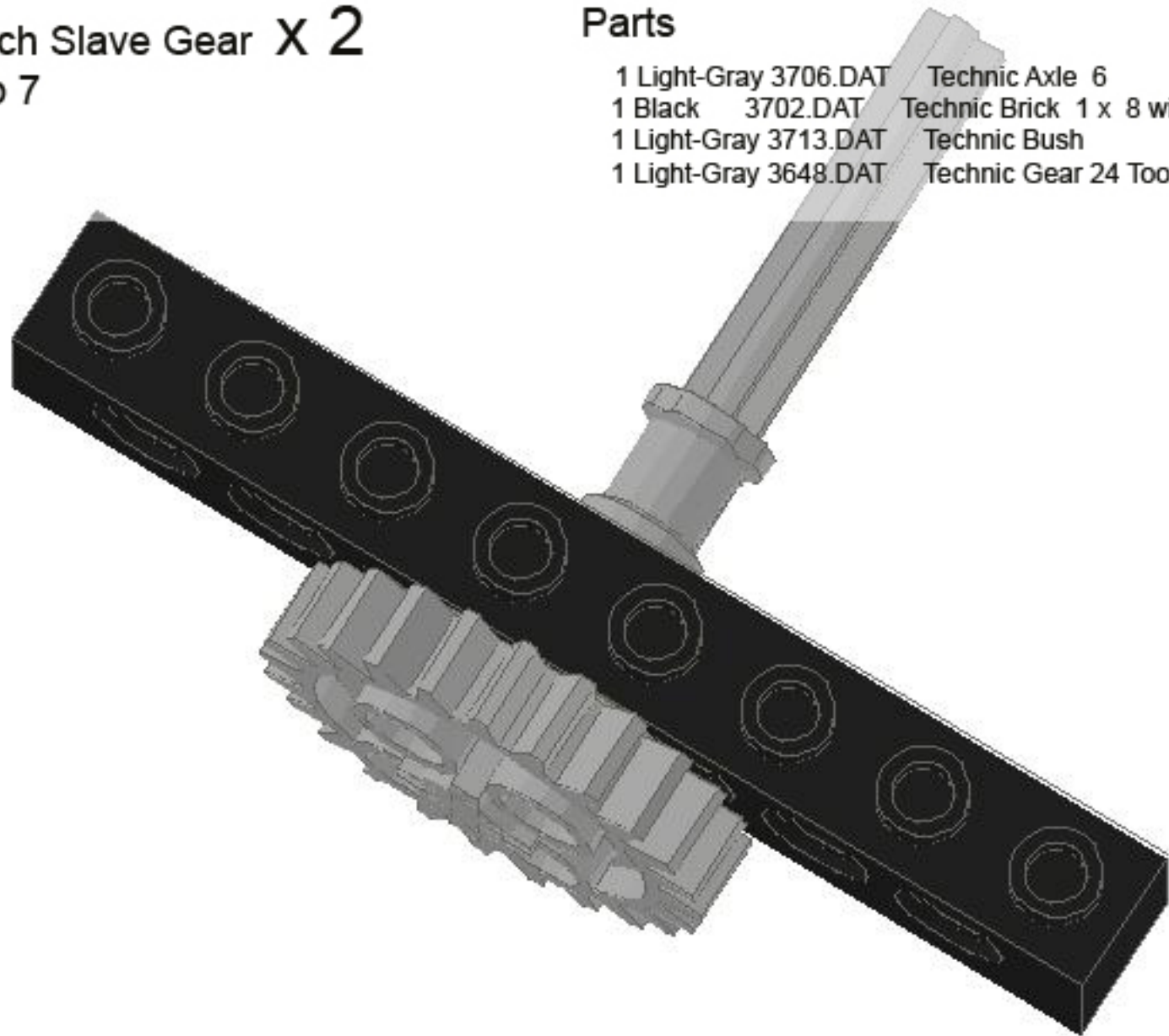


Clutch Slave Gear X 2

Step 7

Parts

- | | |
|-----------------------|--------------------------------|
| 1 Light-Gray 3706.DAT | Technic Axle 6 |
| 1 Black 3702.DAT | Technic Brick 1 x 8 with Holes |
| 1 Light-Gray 3713.DAT | Technic Bush |
| 1 Light-Gray 3648.DAT | Technic Gear 24 Tooth |



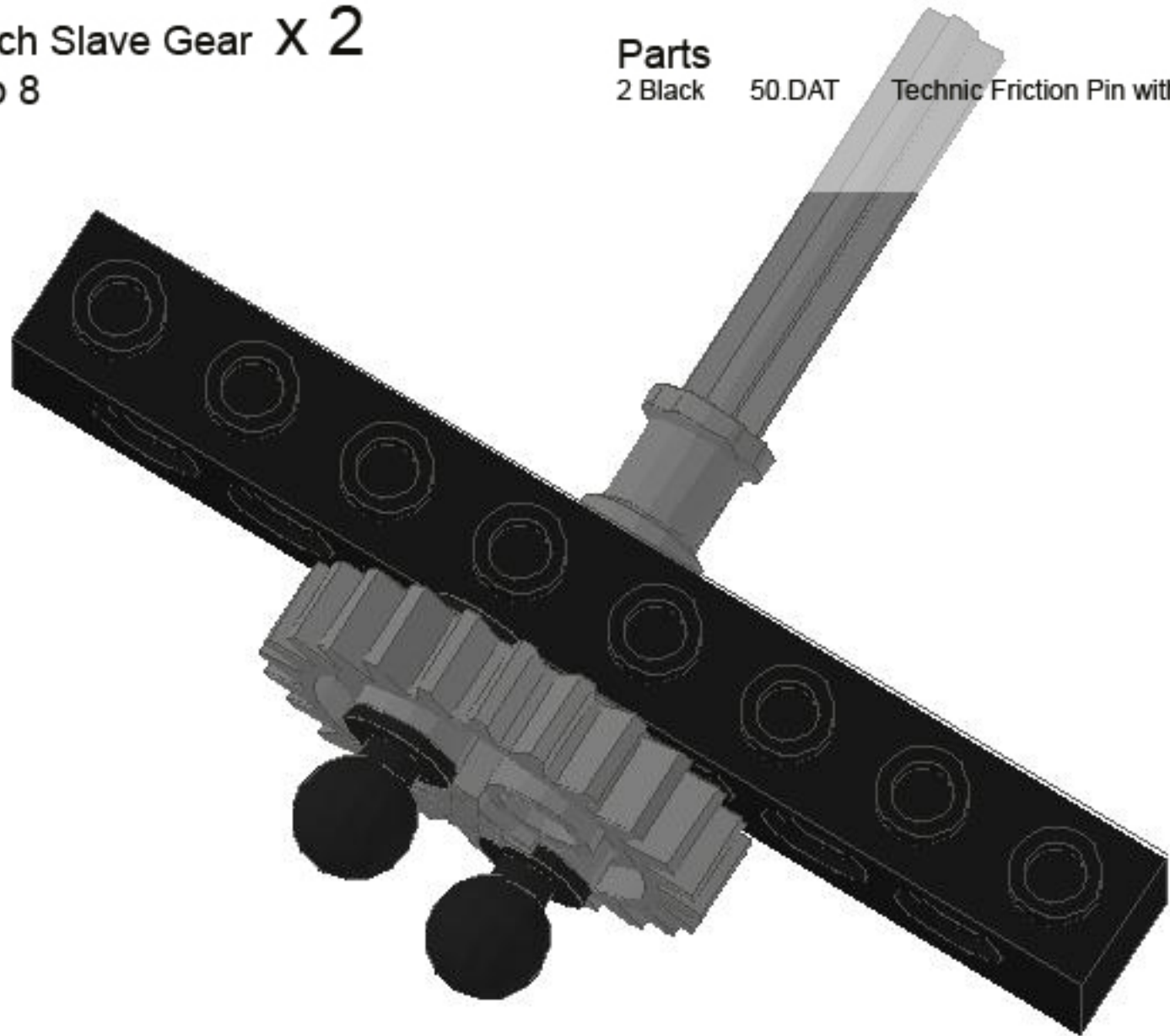
Clutch Slave Gear X 2

Step 8

Parts
2 Black

50.DAT

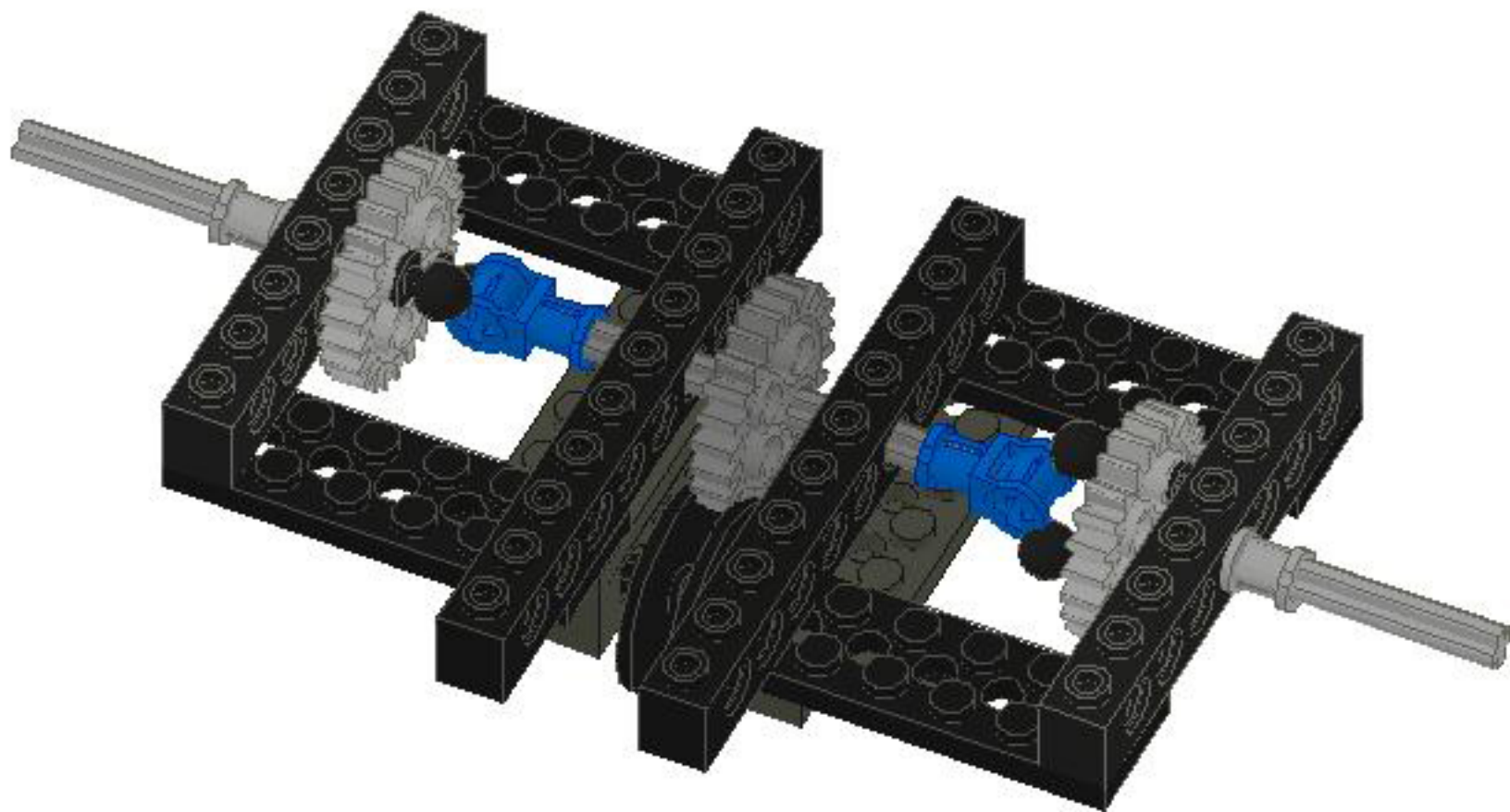
Technic Friction Pin with Towball



Main Clutch

Step 9

Parts
Attach Clutch Slave Gears

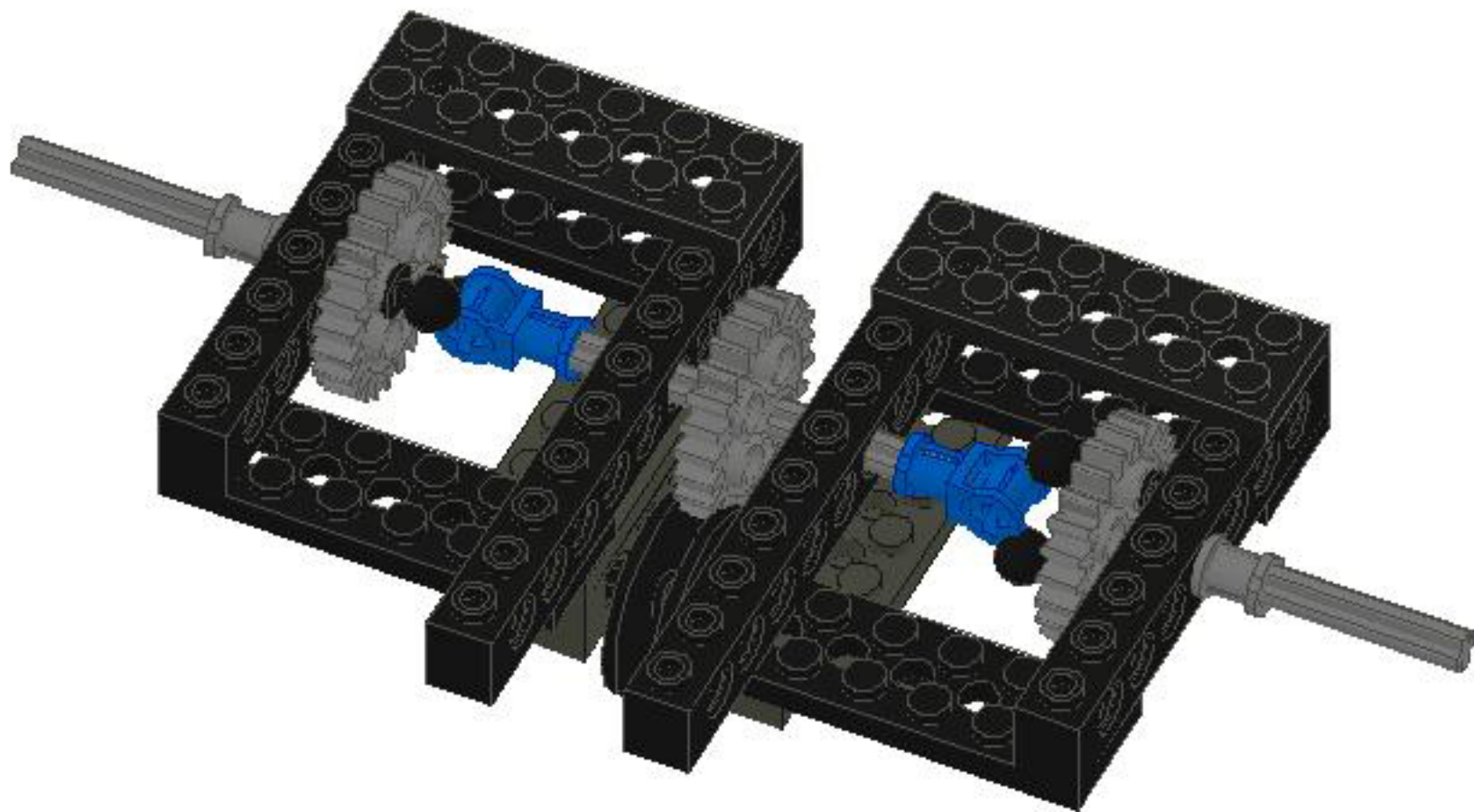


Main Clutch

Step 10

Parts

2 Black 32001.DAT Technic Plate 2 x 6 with Holes



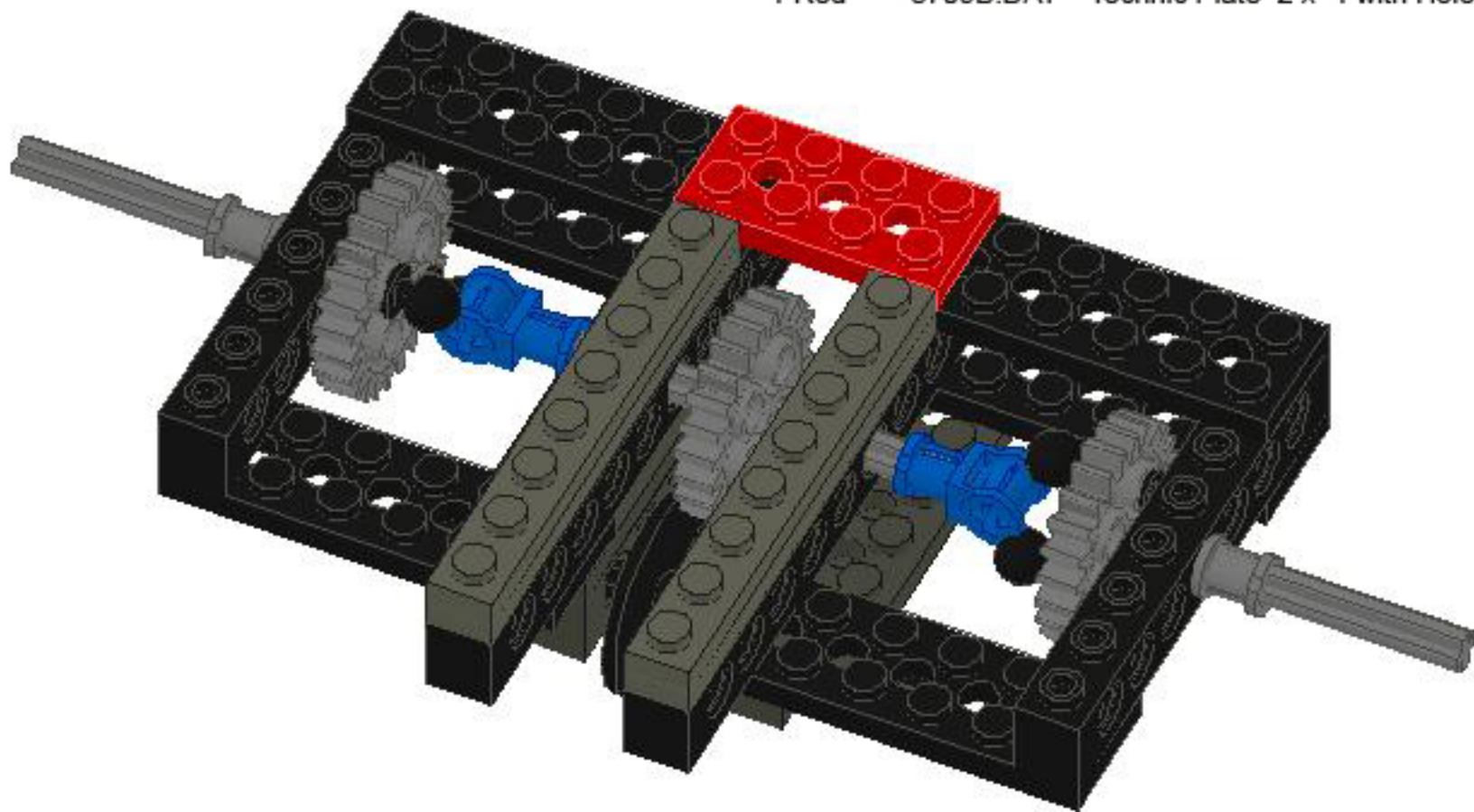
Main Clutch

Step 11

Parts

4 Dark-Gray 3460.DAT Plate 1 x 8

1 Red 3709B.DAT Technic Plate 2 x 4 with Holes



Clutch Engage Lever

Step 12

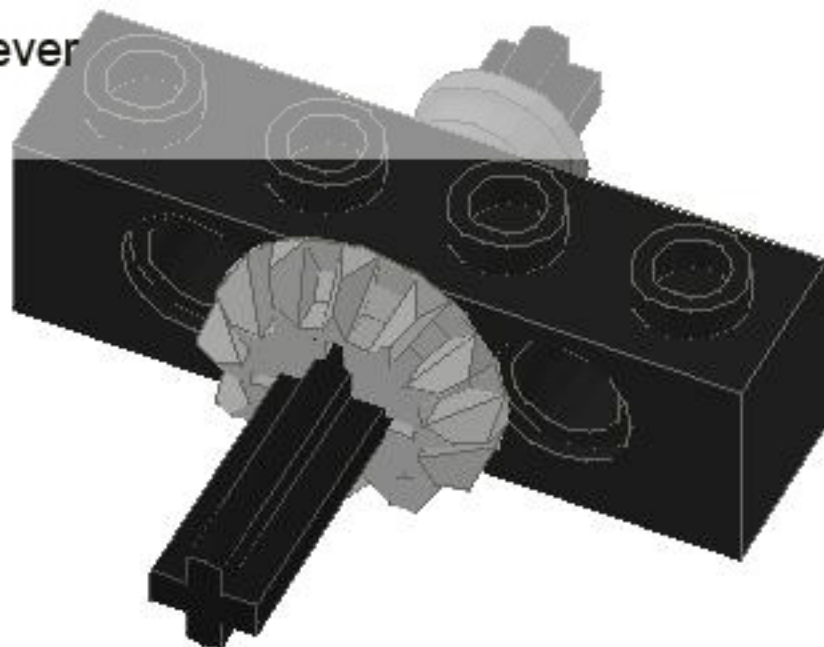


Parts

- | | | |
|--------------|----------|-----------------------------|
| 1 Black | 3705.DAT | Technic Axle 4 |
| 1 Light-Gray | 6589.DAT | Technic Gear 12 Tooth Bevel |

Clutch Engage Lever

Step 13

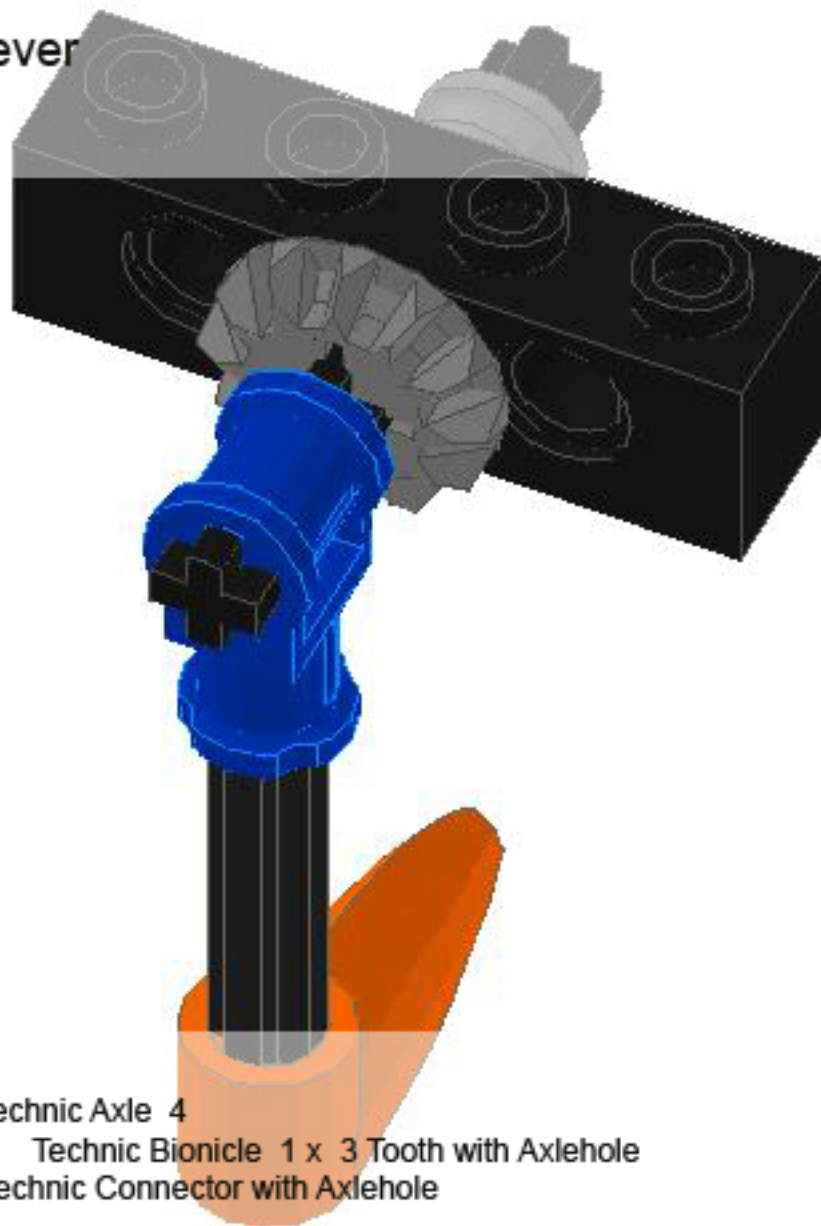


Parts

1 Black	3701.DAT	Technic Brick 1 x 4 with Holes
1 Light-Gray	6589.DAT	Technic Gear 12 Tooth Bevel

Clutch Engage Lever

Step 14



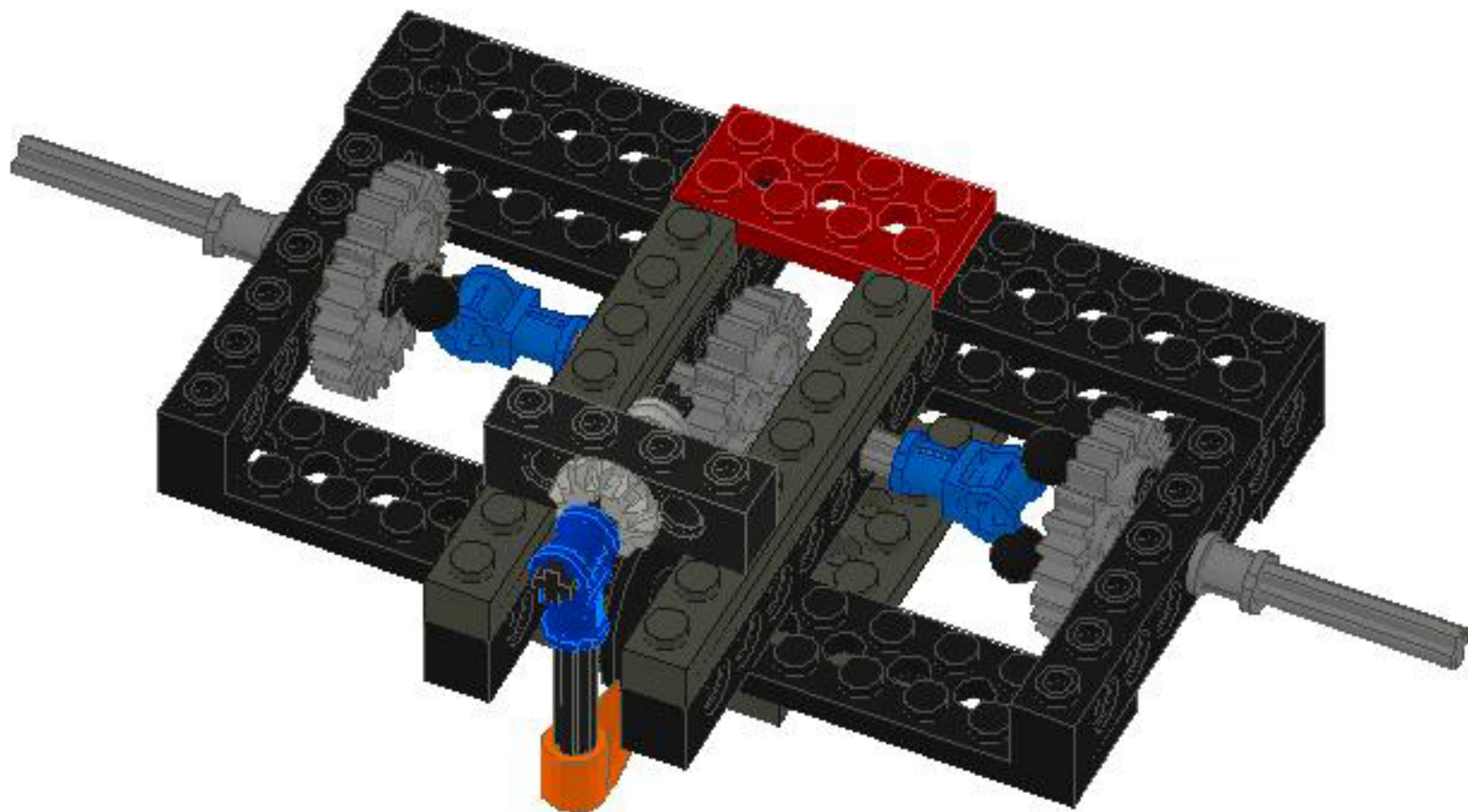
Parts

- 1 Black 3705.DAT Technic Axle 4
- 1 Orange-Solid 41669.dat Technic Bionicle 1 x 3 Tooth with Axlehole
- 1 Blue 32039.DAT Technic Connector with Axlehole

Main Clutch

Step 15

Parts
Attach Clutch Engage Lever



Main Clutch Final Model

Turning the bevel gear shifts from one axle to the other.
Two gears placed side-by-side can easily drive the central gear.
The pins with towballs enable the axles to engage with minimal gear slippage.

