

INFORMATION Redacted PURSUANT TO THE FREEDOM OF
INFORMATION ACT (FOIA), 5 U.S.C. 552(B)(6)

EA09-001

HONDA

5-29-2009

ATTACHMENT Q2

INFORMATION Redacted PURSUANT TO THE FREEDOM OF
INFORMATION ACT (FOIA), 5 U.S.C. 552(B)(6)

Source	Type	ClaimantLastName	VIN	Make	Model	Model year	Summary
Summary Description of "c" Crash, Injury, Fatality Reports and "e" Property Damage - Key Removed, not in Park							
N012005-10-2501200	Crash	GRACEY	JHMCG56442C [REDACTED]	HONDA	ACCORD	2002	Customer states that she was able to take the key out of the ignition while the vehicle was out of park and her vehicle crashed into her neighbors brick wall.
N032007-07-1601914	Crash	WEISSBERG	JHMCG56752C [REDACTED]	HONDA	ACCORD	2002	The customer stated that he parked the vehicle on a hill and was able to remove the key from the ignition while the vehicle was in reverse. The customer stated that he thought the vehicle was in park, which is why he left the vehicle, which rolled down a hill and was stopped by a tree.
N032005-09-2200807	Crash	ADKINS	JHMCG56702C [REDACTED]	HONDA	ACCORD	2002	The customer stated after getting out of his vehicle and taking the key out of the ignition his vehicle roll into a building and someone told him this vehicle had a recall on it.
N012008-07-1401600	Crash, Property Damage	WINN	1HGCG165X2A [REDACTED]	HONDA	ACCORD	2002	The vehicle was stopped, turned the ignition off and removed the key assuming the vehicle was in park. Mr. [REDACTED] proceeded to exit the vehicle and closed the door when he noticed the vehicle drifting. Mr. [REDACTED] stated he attempted to stop the vehicle from striking vehicle number two but was unsuccessful. Vehicle number two was struck in the right front bumper and vehicle number one was truck in left rear bumper.
N032004-02-2000043	Crash, Property Damage	MARCUCCI	JHMCG66832C [REDACTED]	HONDA	ACCORD	2002	She stated that she left her car in gear, removed the key from the ignition and the car rolled back. Her car rolled back and hit another vehicle. Her car sustained some damage as well as the car her vehicle hit.
N012003-11-0401572	Crash	MORGAN	JHMCG56612C [REDACTED]	HONDA	ACCORD	2002	Customer states that his vehicle he forgot to put his vehicle in park and took the key out. He did not put the parking brake up and the vehicle rolled down the hill and hhit another car.
N032005-03-3101224	Crash	MESTAS	JHMCG56622C [REDACTED]	HONDA	ACCORD	2002	The customer also states that on 3/11/04 at 2pm, he parked the vehicle on an incline while making a delivery of napkins to a business. When he came out, the car moved about 10 inches and hit a sign... I received a call from jerlyn at the dealer who stated that YES the key does come out of the ignition when the vehicle is in any gear.

Source	Type	ClaimantLastName	VIN	Make	Model	Model year	Summary
N032005-12-2300605	Crash	HASLETT	JHMCG66082C [REDACTED]	HONDA	ACCORD	2002	She states that her keys will come out when the vehicle is in park, reverse or neutral. She states that the vehicle was off, but the shifter was in drive, so she took the keys out like normal, and she also had her parking brakes on. She states that she left her vehicle to go to work and the parking attendant had to go and find her because her vehicle rolled and hit the cement post and then it went into an embankment that went into the next level.
N032005-04-0400649	Crash	MARQUIS	JHMCG66822C [REDACTED]	HONDA	ACCORD	2002	The customer stated that about Midnight on a night in November the vehicle rolled while shut off and the key was removed from the ignition.
N012009-02-0601040	Crash	VERSLUIS	1HGCG16512A [REDACTED]	HONDA	ACCORD	2002	He stated that he is not having a problem with his vehicle but that last week he removed the key from the ignition switch and the vehicle rolled back and hit a vehicle.
N032006-05-3000624	Crash	MCSHANE	JHMCG56732C [REDACTED]	HONDA	ACCORD	2002	Customer contacted AHM and stated that on April 25th 2006 she parked her car at a restaurant at 6140 north Mesa El Paso Texas and when she went outside, she saw that her vehicle had rolled backwards and hit another vehicle. Customer stated that she did not put the car in park when she took the key out of the ignition and did not use her parking brake when she parked.
N032005-11-2801860	Crash, Property Damage	OLIVER	JHMCG56482C [REDACTED]	HONDA	ACCORD	2002	The customer states that on November 13, 2005 the vehicle was involved in an accident where her vehicle rolled from the top of her driveway down into the street where her neighbors vehicle was parked and her vehicle crashed into the parked vehicle. The customer states that it occurred at about 6:30pm that evening and she drove into her driveway and removed her key without pulling on the emergency brake not realizing that her vehicle was not in park.
N012007-01-1600629	Crash	JOYCE	1HGCG22502A [REDACTED]	HONDA	ACCORD	2002	The customer stated that you can take the key out of the ignition while in gear. The vehicle was in drive and rolled down the street and he damaged his bumper.

Source	Type	ClaimantLastName	VIN	Make	Model	Model year	Summary
N012008-10-2001297	Crash, Property Damage	GINGRAS	3HGCG564X2G [REDACTED]	HONDA	ACCORD	2002	She advised that on 10/1/08, she had parked her vehicle into the lot at work and put up the sun shade and left the car. She advised that she had turned behind her and saw a vehicle coming towards her. She advised that she did not realize it until after that it was her car rolling from the spot... She claimed that when she had gone into the vehicle, she had noticed that it was not in park and that she was able to remove her key from being in park.
N012005-05-0201903	Crash	CARVER	1HGCM66573A [REDACTED]	HONDA	ACCORD	2003	Customer is calling regarding an incident that occurred on Friday April 29th, 2005. Vehicle was parked in a parking lot near the intersection of HWY 75 and Howell Mill. Incident occurred around 18:30. He claims that he parked the car with the shift selector in the Park position. He left the vehicle, keys in his hand, and went into a supermarket. When he returned the vehicle has rolled backwards some 20-30 feet and struck another vehicle. There is damage to Mr. Carver's vehicle on the rear bumper as well as the right rear quarter panel. The other vehicle, a late model Sentra has damaged to the right front door.
N012005-03-0901125	Crash	CAUSBY	1HGCM56693A [REDACTED]	HONDA	ACCORD	2003	The key can come out when the vehicle is in gear. Vehicle has already rolled once and caused damage to bumper which the dealer has repaired. Customer states the key coming out of the ignition is continuing to happen on an intermittent basis. Customer states when she gets out of her car and she is talking on the cell phone the key can come out of the ignition when the vehicle is not in park. Customer states she has a picture of this occurring.
N012004-10-1300151	Crash, Property Damage	HILDEN	JHMCM566X3C [REDACTED]	HONDA	ACCORD	2003	Customer stated that her parked vehicle had rolled from her parking space on the evening of 10/12/04 and hit another parked (vehicle). The customer stated that when she saw the vehicle it was locked and the shifter selector it was in neutral. The customer stated that she was able to take the key out of the ignition with the shift selector in neutral. The customer stated that there was significant damage to the rear bumper of her vehicle and the rear bumper of the vehicle her vehicle hit.

Source	Type	ClaimantLastName	VIN	Make	Model	Model year	Summary
N012003-07-0900902	Crash	BRUEN	JHMCM56613C [REDACTED]	HONDA	ACCORD	2003	Customer states approximately 2 weeks ago, his wife assumed she had the car in park when she had the car in the garage. Customer removed the key from the transmission and as she was walking around the car started rolling backwards. The customer was pushed again the other car, but she wasn't injured, only a little shaken. The car continued down the driveway until it collided with the cable box on the lawn.
N012007-08-3000969	Crash, Property Damage	THOMPSON	1HGCM563X3A [REDACTED]	HONDA	ACCORD	2003	On July 2, 2007 Mr. T [REDACTED] left his vehicle in his driveway while leaving for roughly 30min. After returning he noticed the vehicle rolled back his driveway striking another car before hitting a pole to stop.
N012004-05-1700866	Crash	SJOQUIST-KING	1HGCM66573A [REDACTED]	HONDA	ACCORD	2003	Customer called and stated that the key can be removed from the ignition switch while the vehicle is in a non park position. Customer states she got out of the vehicle and was about to walk away and the vehicle began to roll and it struck a door on the vehicle.
N052003-12-2100130	Crash	MALONE	1HGCM66593A [REDACTED]	HONDA	ACCORD	2003	The customer stated that a few days ago when he was opening his garage door, the garage door hit his bumper, damaging it. The customer noticed that the gear was in the drive position. The customer wants to know how he was able to take his keys out with out the gear being in the park position.
N012005-04-2001588	Crash	SELLERS	1HGCM56383A [REDACTED]	HONDA	ACCORD	2003	Customer alleges the vehicle rolled back into a house after the key was able to be removed without the vehicle placed in the park position. The damage to the house and vehicle are unknown at this time.
N012008-01-0300444	Crash	PAVENTI	1HGCM56493A [REDACTED]	HONDA	ACCORD	2003	Customer has issue with the ignition switch. He stated he can remove his keys in park, drive, and neutral. Customer stated the vehicle does not hold gears and he had the dealership address the issue. He stated because dealership did not address the issue as he informed them he got into an accident. He stated his vehicle rolled and hit another vehicle. He stated the front bumper pops out.

Source	Type	ClaimantLastName	VIN	Make	Model	Model year	Summary
N012004-04-2700135	Crash	LADER	3HGCM56313G [REDACTED]	HONDA	ACCORD	2003	He pulled into a parking garage, and he pulled the key out and left the car. As he walked away, the car started rolling backwards, and hit a curb. I verified that the parking brake was NOT on. He got back in the car and noticed it was in drive - not park.
N012005-09-0900333	Crash	MAYS	1HGEM22964L [REDACTED]	HONDA	CIVIC	2004	The customer contacted ACS to state that on 9/02/05 his wife parked the car, in drive, with the parking brake on, with the key out & on a slight gradient. His son walked through the car & a rock in the front yard & watched as the vehicle rolled into the rock damaging the front end.
N012005-09-1601306	Injury	DOOLITTLE	5J6YH28563 [REDACTED]	HONDA	ELEMENT	2003	Mr. [REDACTED] stated he thought he put his vehicle in Park, turned the car off and took the key into the ignition. The customer stated he stepped out of the vehicle with one foot and the vehicle began to roll.

Source	Type	ClaimantLastName	VIN	Make	Model	Model year	Summary
Summary Description of "c" Crash, Injury, Fatality Reports and "e" Property Damage - Rollaway							
N032005-04-2901403	Crash	BERUMEN	JHMC66512C [REDACTED]	HONDA	ACCORD	2002	The customer states the vehicle rolled back due to this recall. The accident took place about four months ago. There was no one in the vehicle at the time of the accident. The vehicle was parked in the garage, which is on an incline. The vehicle rolled out of the garage and into a block wall damaging the rear bumper and the block wall.
N032006-05-0500518	Crash	FAWCETT	JHMC666X2C [REDACTED]	HONDA	ACCORD	2002	The customer states that her vehicle rolled into a rockery and damaged the vehicle.
N032007-02-1500270	Crash, Property Damage	SACARIAS	JHMC66422C [REDACTED]	HONDA	ACCORD	2002	Per Amy the customer parked his vehicle in his driveway. The emergency brake was not engaged. The vehicle came out of gear and rolled back and hit a 2006 Lexus that was parked on the street
N032004-08-1600571	Crash	STONELAKE	1HGCM82633A [REDACTED]	HONDA	ACCORD	2003	She states that she parked the car on 8/14/04. she states that she put it in park and shut off the vehicle. She states that she then went into a store to shop. She stated that upon returning from the store that her vehicle had rolled and that it had struck another vehicles.
N012005-04-2701135	Crash, Property Damage	SHANKS	1HGCM82663A [REDACTED]	HONDA	ACCORD	2003	Customer has contacted our office because last night when she parked her vehicle and got out and proceeded to go in to her house, her vehicle rolled back and hit two parked cars. Customer stated she parked her vehicle in the parking garage. Customer stated that after the accident she discovered that her vehicle was still in drive.
N012004-07-1400849	Crash	MCKIBBEN	JHMES96683S [REDACTED]	HONDA	CIVIC	2003	The customer states his wife picked up something and turned the car off while in drive, and went in the store and came out to find that the vehicle had rolled and hit a pole.
N012004-10-2200701	Crash	LOZANSKI	2HGES16503H [REDACTED]	HONDA	CIVIC	2003	Customer vehicle ignition lock had failed and the vehicle rolled down a hill and caused about \$2,000.00 of damage.

Source	Type	ClaimantLastName	VIN	Make	Model	Model year	Summary
Summary Description of "g" Lawsuits							
072714	Claim	JONES	1HGCM82663A [REDACTED]	HONDA	ACCORD	2003	The customer feels that there is a transmission problem with her car. She indicated the vehicle was in park and somehow began to roll back. The customer was outside of the vehicle and reached into the vehicle to eject a CD from the CD player. As she did this, the vehicle began to roll back. She tried to stop the vehicle and she looked down at the gear selector and the vehicle was in park. The customer could not stop the vehicle. The vehicle ended up rolling over her right leg and finally came to a stop.
052227	Claim	SHANKS	1HGCM82663A [REDACTED]	HONDA	ACCORD	2003	Per CR - Claimant alleges the following: Customer stated last night (4/26/05) when she parked her vehicle and got out and proceeded to go in to her house, her vehicle rolled back and dhit two (2) parked cars. Customer stated she parked her vehicle in the parking garage. Customer stated that after the accident she discovered that her vehicle was still in drive. Customer stated her vehicle rolled back This caused damage to the back bumper of her vehicle and the front bumpers of the other vehicles.
051908	Claim	SELLERS	1HGCM56383A [REDACTED]	HONDA	ACCORD	2003	Per CR report, call from dealer. DPSM contacted ACS, spoke with [REDACTED] in regards to an alleged rollback concern. DPSM stated the customer alleges the vehicle rolled back into a house after the key was able to be removed without the vehicle placed in the park position. The damage to the house and vehicle are unknown at this time. [REDACTED] contacted Honda Legal and was advised to forward case to HNA.

EA09-001

HONDA

5-29-2009

ATTACHMENT Q7

Service Bulletin Honda

05-007, News Acura &

HONDA Dec 2005

Safety Recall: Ignition Key Is Removable With the Shift Lever Out of Park

BACKGROUND

Limited batches of ignition switch interlock levers do not have sufficient surface hardness. An ignition switch with a defective interlock lever may wear excessively, making it possible to remove the key when the shift lever is out of Park. If the driver does not set the parking brake when parking, the vehicle could roll, and a crash could occur.

VEHICLES AFFECTED

Less than half of the vehicles within the affected VIN ranges are affected by this campaign. **To verify eligibility, you must check at least one of these items:**

- The customer has a notification letter.
- The vehicle is shown on your campaign responsibility report.
- The vehicle is shown as eligible on an iN VIN status inquiry.

In addition to the bulleted verification items, check for a punch mark above the 15th character of the engine compartment VIN. A punch mark in that location means the key interlock has already been repaired.

Some vehicles affected by this campaign may be in your used vehicle inventory. **According to federal law, these vehicles cannot be sold or leased until they are repaired.** To see if a vehicle is affected by this campaign, do a VIN status inquiry before selling it.

1999 Accord 2-Door with A/T:

From VIN 1HGCG2...XA015070 thru
1HGCG2...XA032647

From VIN 1HGCG3...XA012418 thru
1HGCG3...XA027975

1999 Accord 4-Door with A/T:

From VIN JHMCG5...XC000001 thru
JHMCG5...XC061493

From VIN JHMCG6...XC000001 thru
JHMCG6...XC036728

From VIN 1HGCG1...XA023144 thru
1HGCG1...XA068789

From VIN 1HGCG5...XA087584 thru
1HGCG5...XA165179

From VIN 1HGCG6...XA087764 thru
1HGCG6...XA165178

From VIN 1HGCF8...XA092950 thru
1HGCF8...XA163632

2000 Accord 4-Door with A/T:

From VIN JHMCG5...YC000001 thru
JHMCG5...YC042925

From VIN JHMCG6...YC000003 thru
JHMCG6...YC038066

From VIN JHMCFF8...YC000001 thru
JHMCFF8...YC000638

From VIN 1HGCG1...YA000001 thru
1HGCG1...YA002797

From VIN 1HGCG5...YA000073 thru
1HGCG5...YA002400

From VIN 1HGCG6...YA000004 thru
1HGCG6...YA002306

From VIN 1HGCF8...YA000003 thru
1HGCF8...YA000566

2001 Accord 4-Door with A/T:

From VIN JHMCG5...1C000002 thru
JHMCG5...1C033283

From VIN JHMCG6...1C000001 thru
JHMCG6...1C027821

From VIN JHMCFF8...1C000013 thru
JHMCFF8...1C000824

2002 Accord 4-Door with A/T:

From VIN JHMCG5...2C000001 thru
JHMCG5...2C035622

From VIN JHMCG6...2C000001 thru
JHMCG6...2C030241

From VIN JHMCFF8...2C000026 thru
JHMCFF8...2C000598

CUSTOMER NOTIFICATION

All owners of affected vehicles will be sent a notification of this campaign. An example of the customer notification is at the end of this service bulletin.

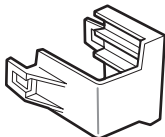
CORRECTIVE ACTION

Inspect the interlock function of the ignition switch, and depending on whether or not the key can be removed, install the appropriate key interlock repair kit (A or B).

PARTS INFORMATION

Key Interlock Repair Kit A:

P/N 06351-S84-000, H/C 7647829



SOLENOID
COVER



INTERLOCK
LEVER SPRING



INTERLOCK
LEVER



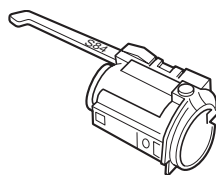
INTERLOCK
SOLENOID SCREW



INTERLOCK
LEVER PIN

Key Interlock Repair Kit B:

P/N 06352-S84-000, H/C 7647837



LOCK CYLINDER BODY
(Interlock lever is
stamped with "S84")



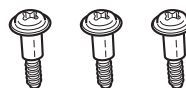
COLLAR



INTERLOCK SWITCH PIN



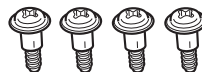
LOCK CYLINDER ROLL PINS



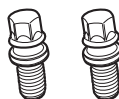
ELECTRICAL
SWITCH SCREWS



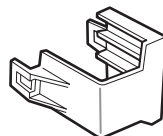
INTERLOCK
SOLENOID SCREW



IMMOBILIZER RECEIVER UNIT
AND ILLUMINATION RING SCREWS



STEERING COLUMN BOLTS



SOLENOID
COVER



INTERLOCK
LEVER SPRING



INTERLOCK
LEVER



INTERLOCK
LEVER PIN



SLIDER KEY

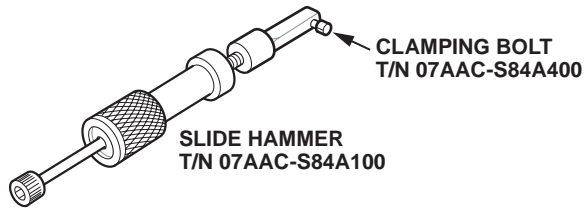


STEERING
COLUMN
BRACKETS

REQUIRED SPECIAL TOOLS

NOTE:

- Use the interlock tool kit (minus the gauge block) from Service Bulletin 03-088, *Safety Recall: Ignition Switch Key Interlock*.
- If additional tools are needed, order them separately as listed below.



REQUIRED MATERIALS

Permalube Grease (3-ounce tube):
P/N 08734-0030, H/C 7649320

WARRANTY CLAIM INFORMATION

OP#	Description	FRT	Template ID
725501	Inspect ignition switch key interlock (HL-A ignition switch assemblies <i>only</i>)	0.2	05-007A
725504	Inspect ignition switch key interlock, and do REPAIR PROCEDURE A (HONDA LOCK JAPAN ignition switch assemblies <i>only</i>)	0.5	05-007B
725505	Inspect ignition switch key interlock, and do REPAIR PROCEDURE B	0.9	05-007C

Failed Part: P/N 35100-S84-A31
H/C 5435425

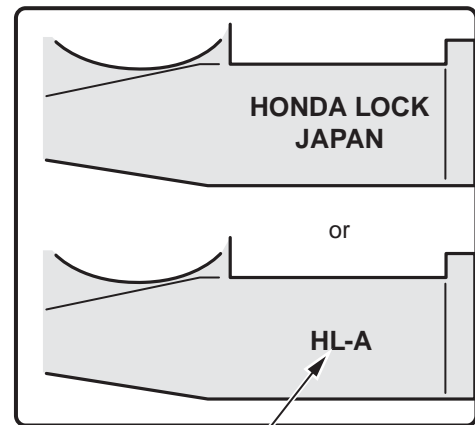
Defect Code: 5EE00

Symptom Code: P6800

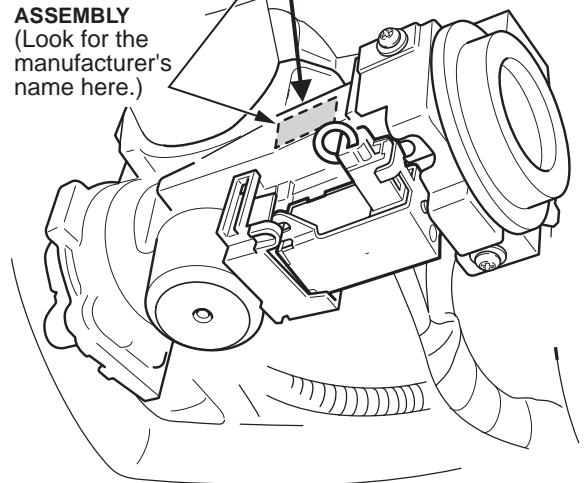
Skill Level: Diagnostic Technician

INSPECTION PROCEDURE

1. Set the parking brake, and turn the ignition switch to the ON (II) position.
2. Press the brake pedal, and move the shift lever to any position other than Park.
3. Try to turn the ignition switch to the LOCK (0) position and remove the key.
 - If you *can* remove the key, go to **REPAIR PROCEDURE B**.
 - If you *cannot* remove the key, go to step 4.
4. Remove the steering column covers. Refer to section 17 (Steering) of the appropriate service manual.
5. Check the manufacturer's name on the ignition switch assembly.
 - If the name is "HL-A," go to step 6.
 - If the name is "HONDA LOCK JAPAN," go to **REPAIR PROCEDURE A**.



IGNITION SWITCH ASSEMBLY
(Look for the manufacturer's name here.)



6. Reinstall the steering column covers.

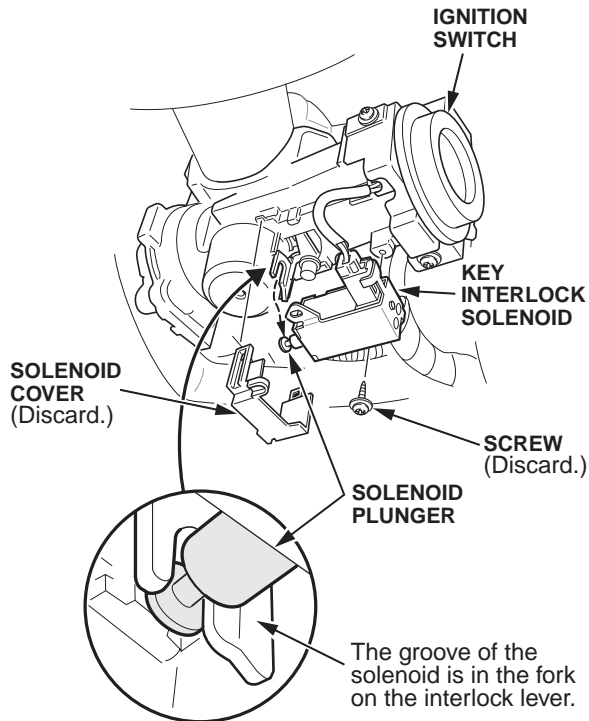
7. Center-punch a completion mark above the 15th character of the engine compartment VIN.

Center-punch here.

1HGCGXXXXXXXXXXXX

REPAIR PROCEDURE A

1. Remove and discard the plastic solenoid cover from the ignition switch key interlock solenoid.

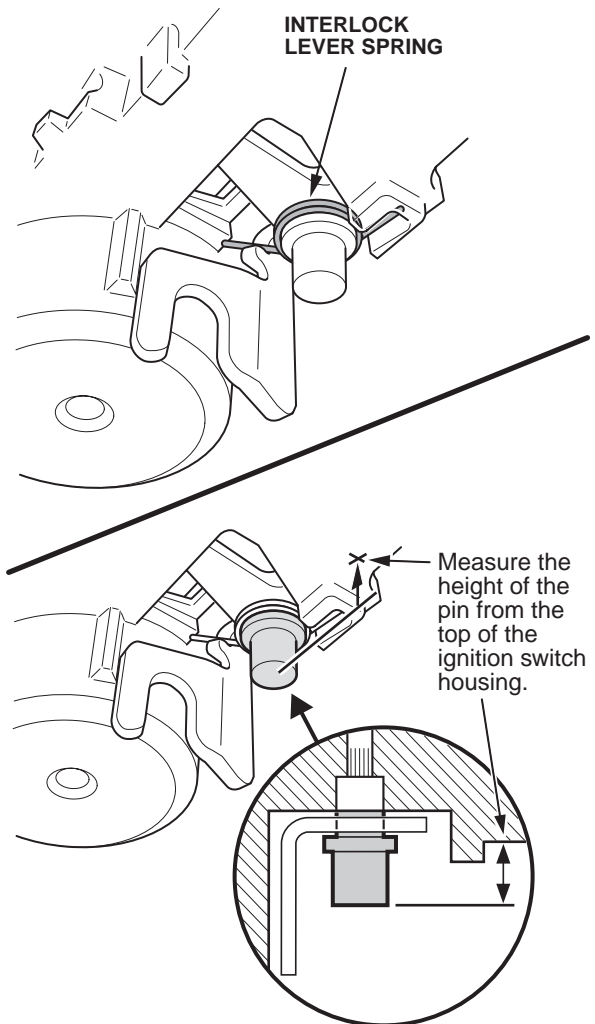


2. Note the position of the interlock solenoid plunger; you'll need to reinstall it the same way.
3. Remove and discard the screw from the interlock solenoid. Keep the solenoid attached to its electrical connector.

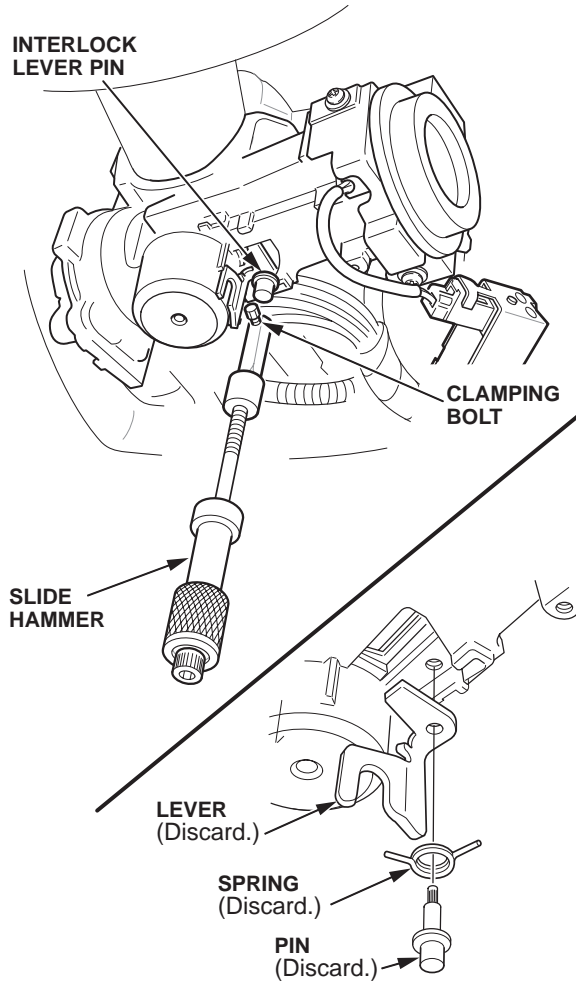
NOTE:

- Be careful not to lose the solenoid plunger; it slides out easily.
- Keep the plunger free of dirt or grease while it's removed from the solenoid.

4. Note the position of the interlock lever spring; you'll need to install the new spring the same way. Also, measure the installed height of the interlock lever pin with vernier calipers. This measurement will be used in step 8.

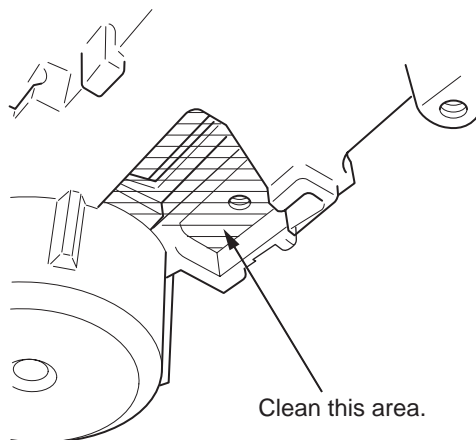


5. Attach the slide hammer to the interlock lever pin, and use it to remove the pin. Discard the pin, the lever, and the spring.

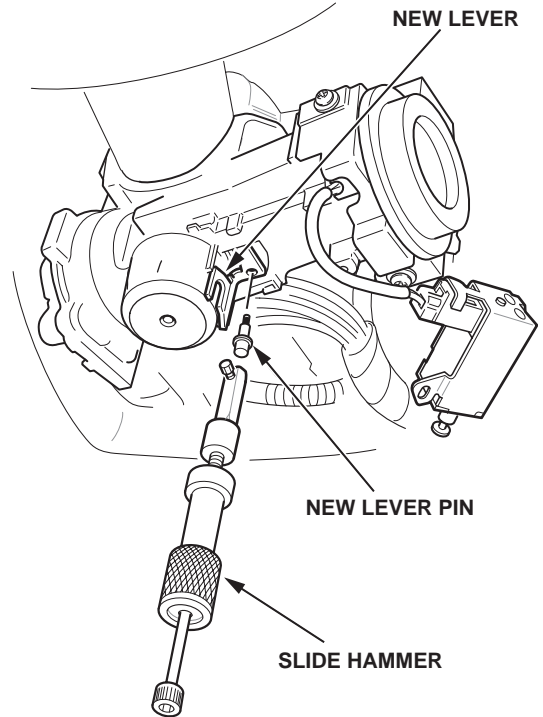


6. Wipe off any debris from the lever's sliding surface on the ignition switch with a clean cloth or a cotton swab.

NOTE: To keep debris out of the ignition switch, do not clean it with compressed air.

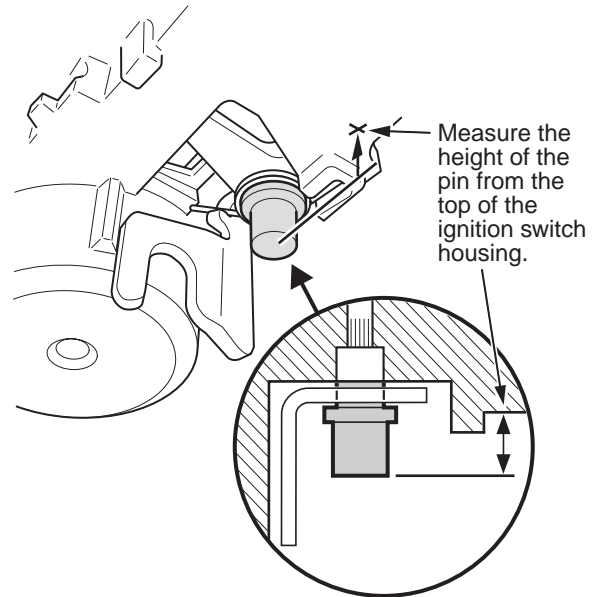


7. Attach the slide hammer to the new lever pin, insert the lever into the ignition switch, and seat the pin with the slide hammer.

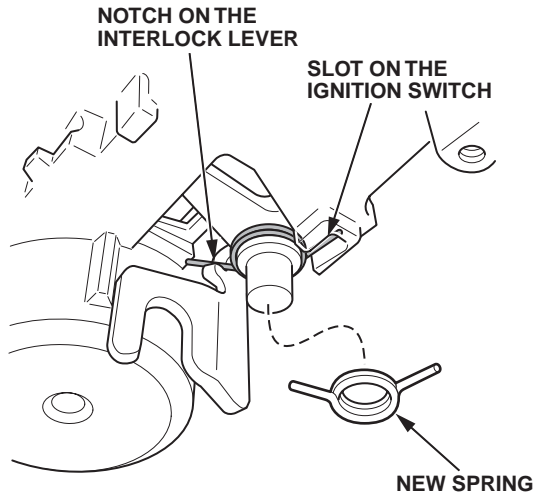


8. Use vernier calipers to measure the installed height of the lever pin. The height should be close to the measurement you made in step 4. If the height is more than 5.3 mm, the pin is not seated. If needed, reattach the slide hammer, then seat the pin.

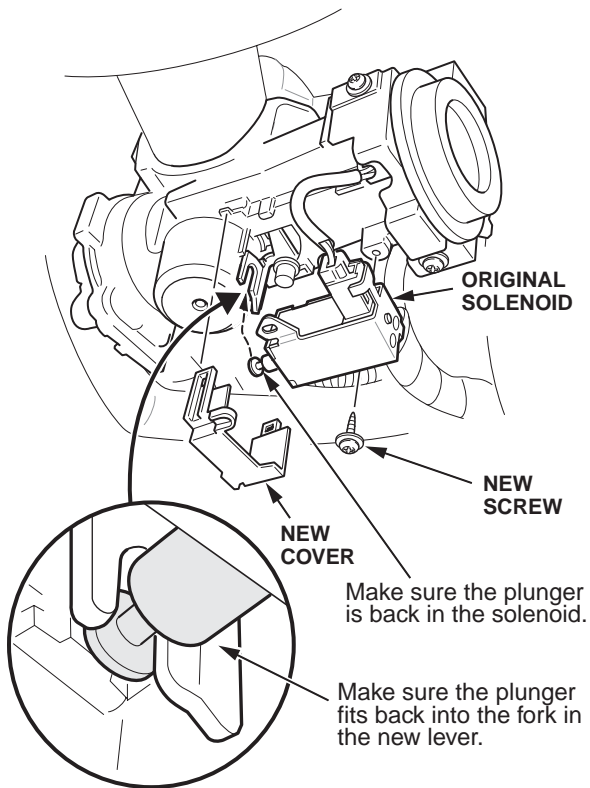
NOTE: It's normal for the interlock lever to be loose, even when the pin is fully seated.



9. Install the new spring on the lever. Make sure you attach the ends of the spring correctly:
- The right end goes into the slot on the ignition switch.
 - The left end goes behind the notch on the interlock lever.
 - Once the spring is correctly installed, make sure the lever moves freely and returns properly.



10. Insert the plunger into the interlock solenoid, then install the solenoid using a new screw. Make sure the groove of the solenoid plunger is in the fork on the lever.



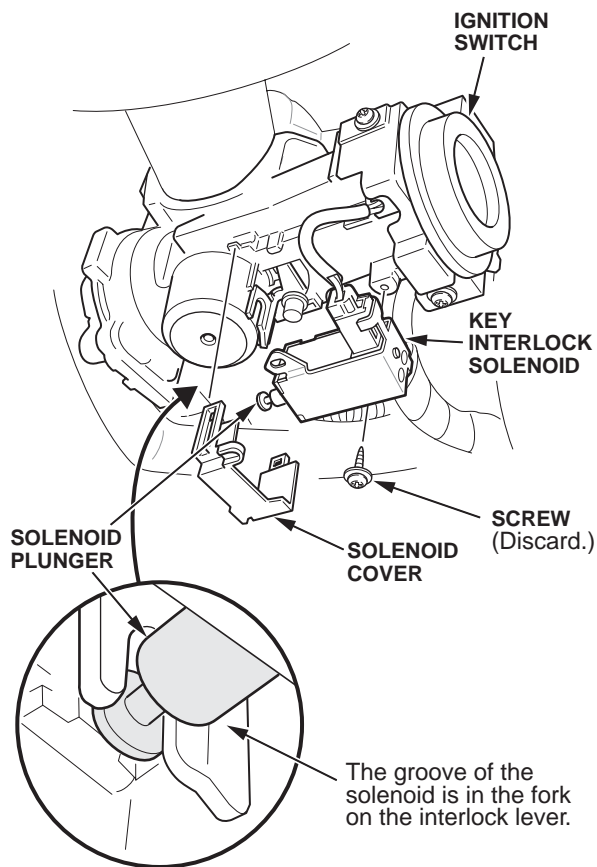
11. Install the new plastic solenoid cover on the interlock solenoid.
12. Set the parking brake, then turn the ignition switch to the ON (II) position.
13. With the brake pedal pressed, shift the transmission to Neutral.
14. Try to turn the ignition switch from the ON (II) position to the LOCK (0) position **five** times.
- If you *cannot* turn the ignition switch to the LOCK (0) position, your repair was successful; go to step 17.
 - If you *can* turn the ignition switch to the LOCK (0) position, go to step 15.
15. Remove the solenoid cover, and make sure the groove of the solenoid plunger is installed in the fork on the lever.
- If needed, correct the position of the solenoid plunger, then go to step 16.
 - If the solenoid plunger is correctly installed, there is an electrical problem with the interlock system; refer to the Automatic Transmission section of the appropriate service manual for troubleshooting information. Once the interlock is working normally, go to step 16.
16. Install the solenoid cover.
17. Install the steering column covers.
18. Center-punch a completion mark above the 15th character of the engine compartment VIN.

Center-punch here.

1HGCGXXXXXXXXXXXX

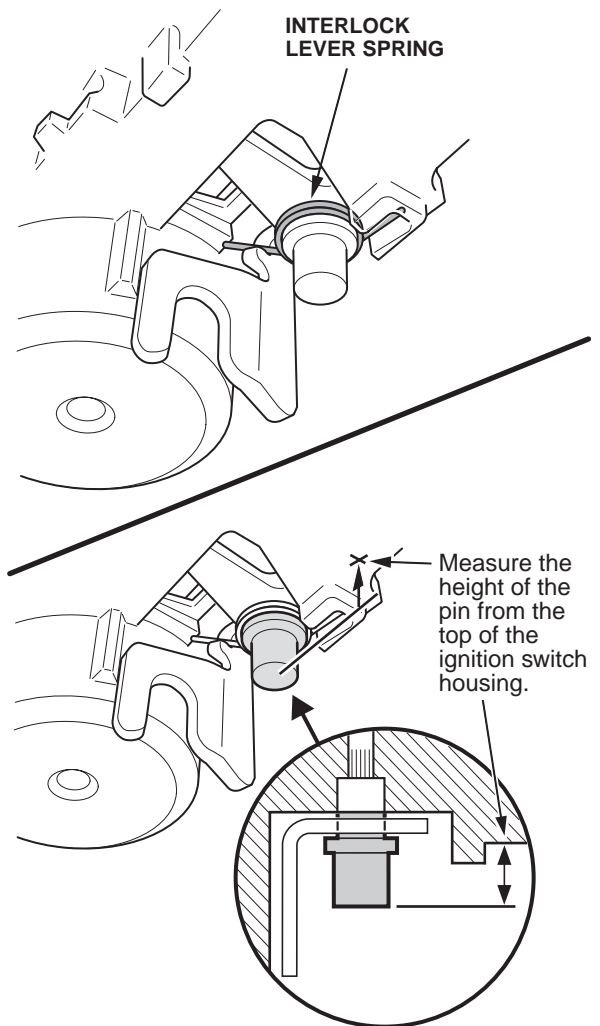
REPAIR PROCEDURE B

1. Remove the steering column covers. Refer to section 17 (Steering) of the appropriate service manual.
2. Remove the plastic solenoid cover from the ignition switch key interlock solenoid.



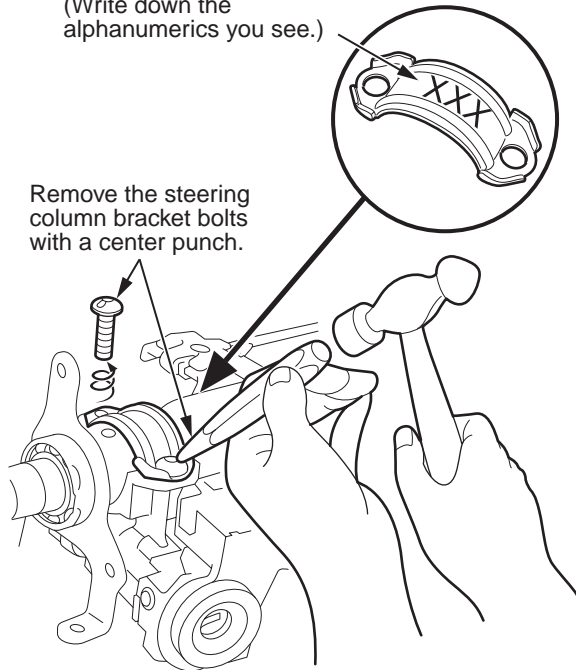
3. Turn the ignition switch to the ON (II) position, then press the brake pedal, and move the shift lever out of Park.
4. Turn the ignition switch to the ACCESSORY (I) position, then push in the key while you watch the solenoid plunger/interlock lever fork.
 - If the solenoid plunger/interlock lever fork moves when you push in the key, go to step 8.
 - If the solenoid plunger/interlock lever fork does not move when you push in the key, go to step 5.
5. Troubleshoot the interlock system, then go to step 6:
 - Refer to page 14-96 of the 1998–02 Accord Service Manual, or
 - Online, enter keyword **INTERLOCK**, and select **Interlock System - Shift Lock System Circuit Troubleshooting (B7XA)** or **(BAXA)** from the list.
6. Turn the ignition switch to the ON (II) position, then press the brake pedal, and move the shift lever out of Park.

7. Try to turn the ignition switch to the LOCK (0) position and remove the key.
 - If you *can* remove the key, go to step 8.
 - If you *cannot* remove the key, go to step 4 of **INSPECTION PROCEDURE**.
 8. Note the position of the interlock solenoid plunger; you'll need to reinstall it the same way.
 9. Remove and discard the screw from the interlock solenoid. Keep the solenoid attached to its electrical connector.
- NOTE:**
- Be careful not to lose the solenoid plunger; it slides out easily.
 - Keep the plunger free of dirt or grease while it's removed from the solenoid.
10. Note the position of the interlock lever spring; you'll need to install the new spring the same way. Also, measure the installed height of the interlock lever pin with vernier calipers. This measurement will be used in step 31.

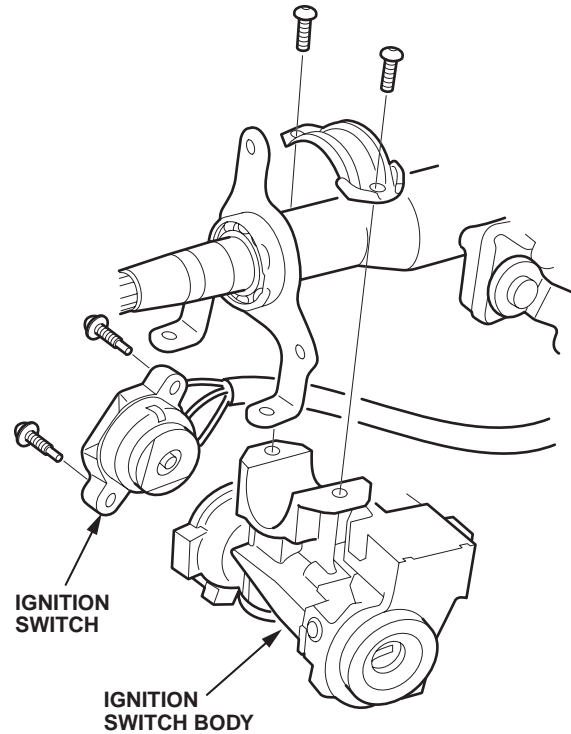


11. Make sure you have the anti-theft code for the radio, then write down the radio station presets, and remove the key from the ignition switch.
12. Disconnect the negative cable from the battery.
13. Using a center-punch and a hammer, carefully “walk out” the two bolts from the steering column bracket. Discard the bolts. Before you discard the bracket, write down the alphanumerics stamped on the center of it. You’ll need them for step 38.

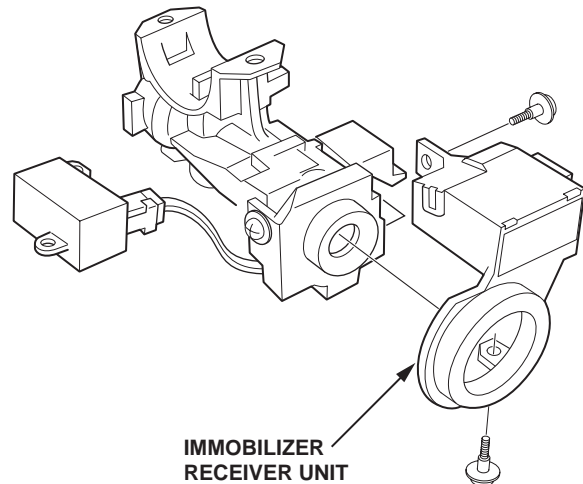
STEERING COLUMN BRACKET
(Write down the
alphanumerics you see.)



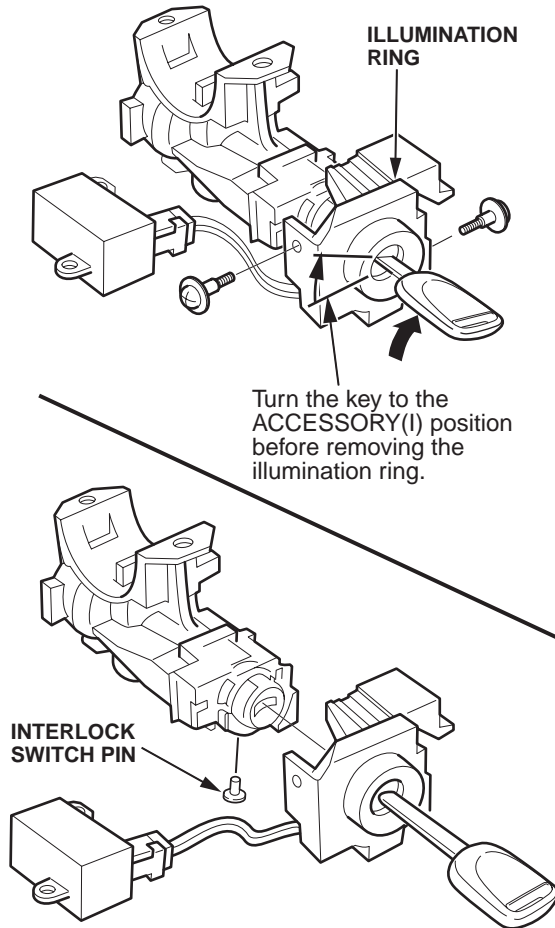
14. Remove the ignition switch body from the ignition switch, and discard the screws. Leave the electrical portion of the ignition switch in the vehicle.



15. Remove the immobilizer receiver unit from the ignition switch body, and disconnect the receiver unit connector. Discard the two screws.

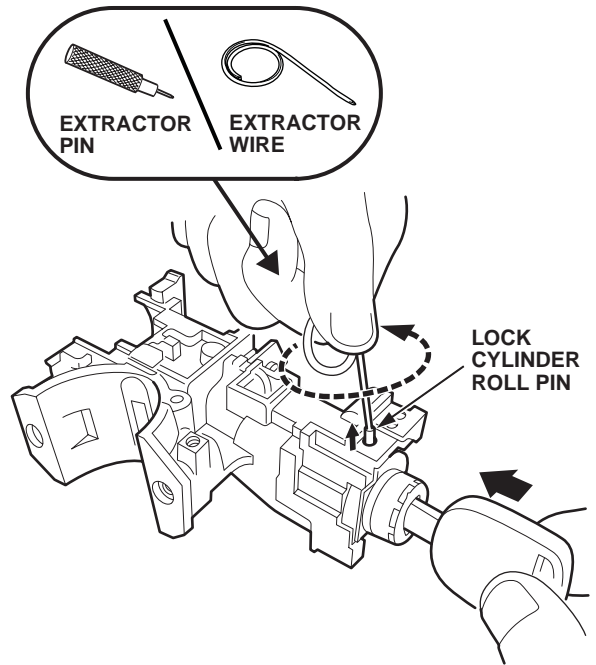


16. Remove the illumination ring from the ignition switch body, and disconnect the illumination ring connector:
- Insert the key, and turn the ignition switch to the ACCESSORY (I) position.
 - Remove and discard the two screws from the illumination ring.
 - Pull the illumination ring partially away from the ignition switch body to clear its microswitch from the interlock switch pin.
 - Remove the key, the illumination ring, and the interlock switch pin. Discard the interlock switch pin.

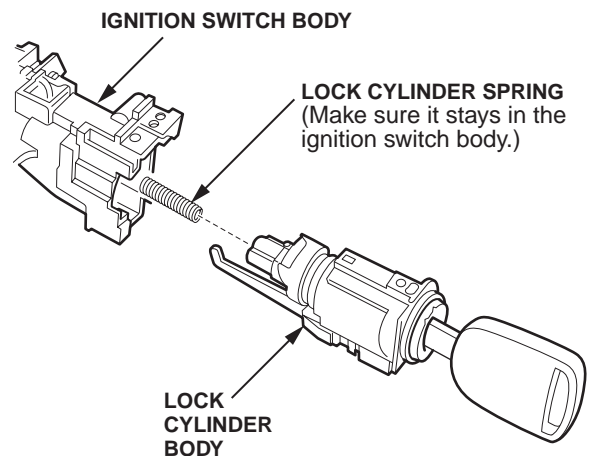


17. Insert the key, and keep the ignition switch in the LOCK (0) position.

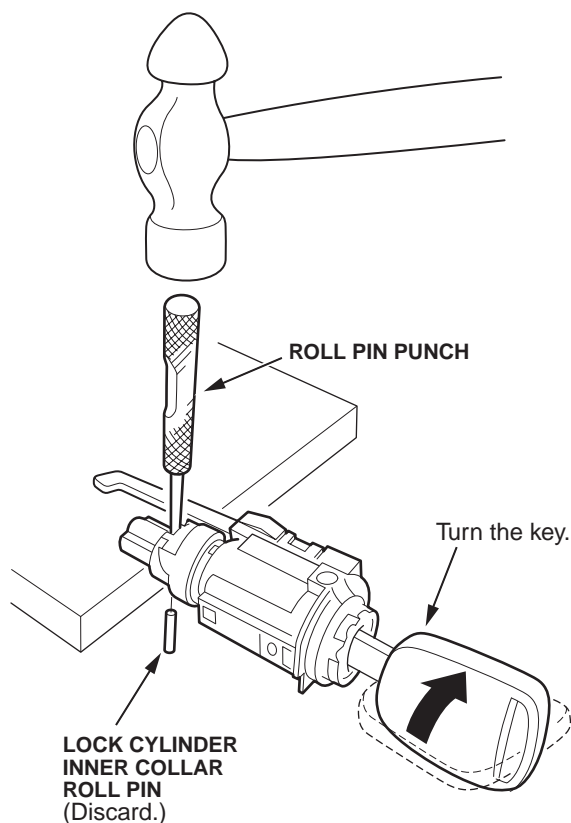
18. Insert an extractor pin into the lock cylinder roll pin hole. While pushing the key into the ignition switch, tilt and rotate the extractor pin to "walk" the roll pin out of its hole. Discard the roll pin.
- NOTE: If you don't have an extractor pin, use an extractor wire.



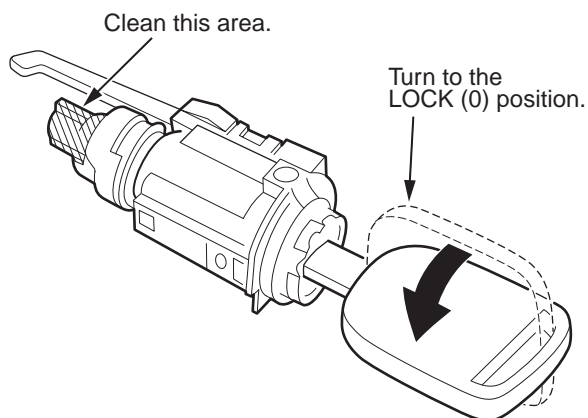
19. Pull the lock cylinder body out of the ignition switch body. If the lock cylinder spring also comes out, put it back into the ignition switch body.



20. Turn the key 90 degrees clockwise to expose the lock cylinder inner collar roll pin. While supporting the lock cylinder shaft on a flat surface, carefully remove the inner collar roll pin with the roll pin punch and a small hammer. Discard the roll pin.

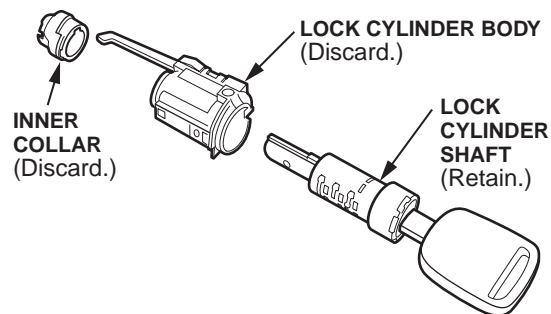


21. Wipe off the end of the lock cylinder shaft with a clean cloth, then turn the key to the LOCK (0) position.

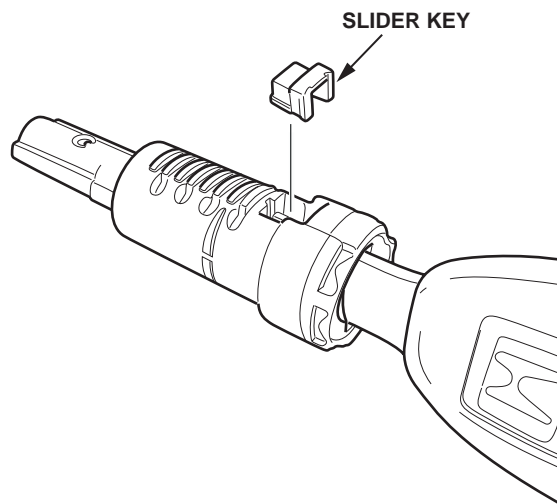


22. Slide the inner collar off the lock cylinder shaft, and remove the shaft from the lock cylinder body. Retain the lock cylinder shaft. Discard the inner collar and the lock cylinder body.

NOTE: Do not remove the key from the lock cylinder shaft. If you do, the tumblers will fall out.

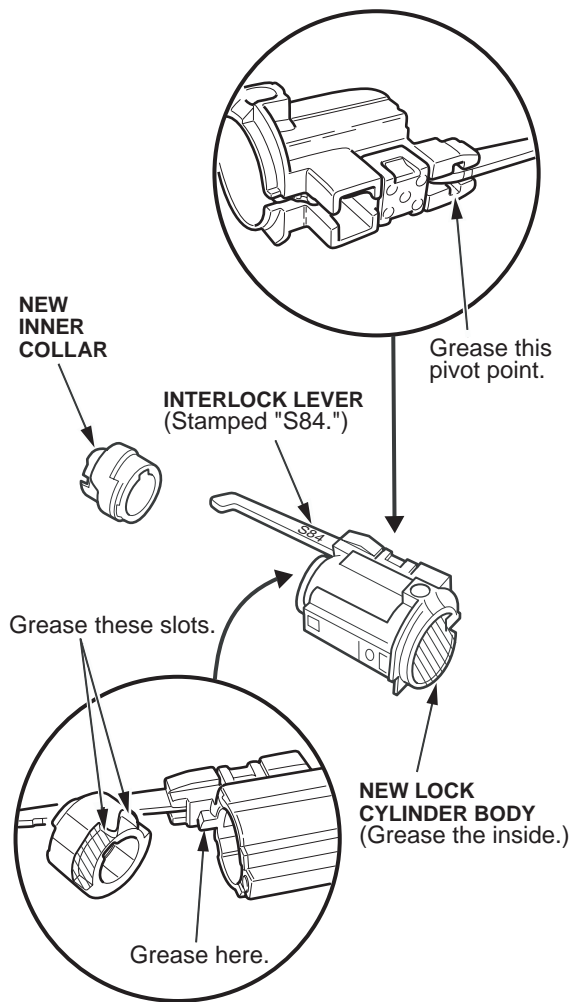


23. Remove the slider key from the lock cylinder shaft, and install the new slider key.

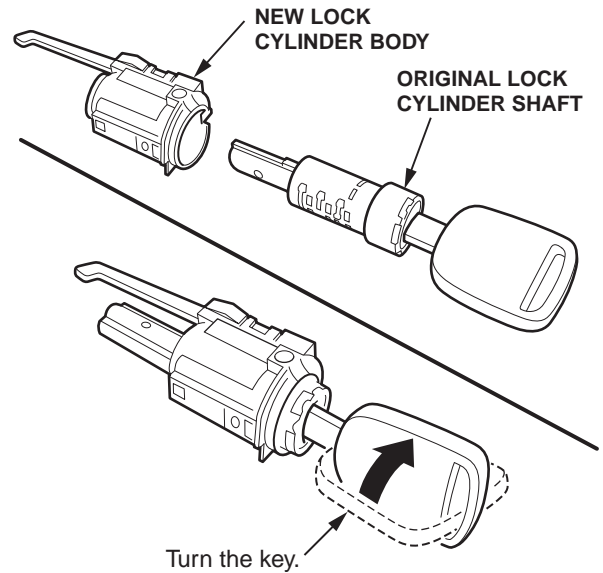


24. Apply Permalube grease to the new lock cylinder body and the new inner collar in the areas shown.

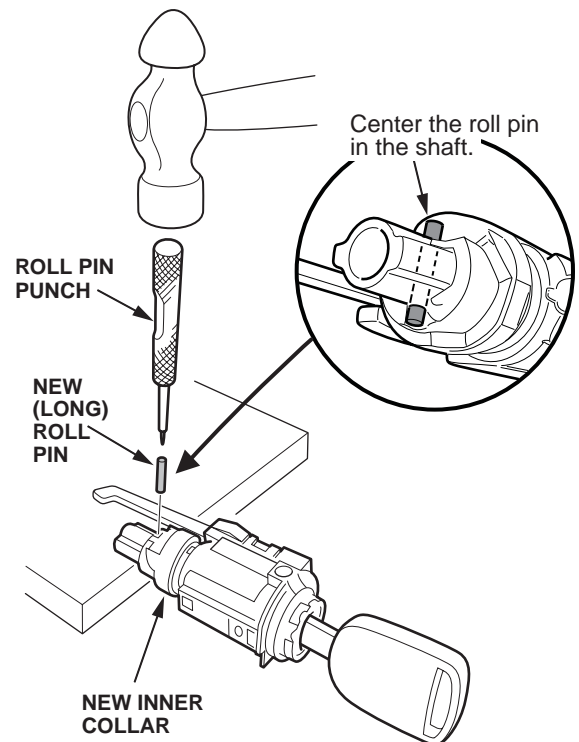
NOTE: On all models, the interlock lever on the new lock cylinder body must be stamped "S84."



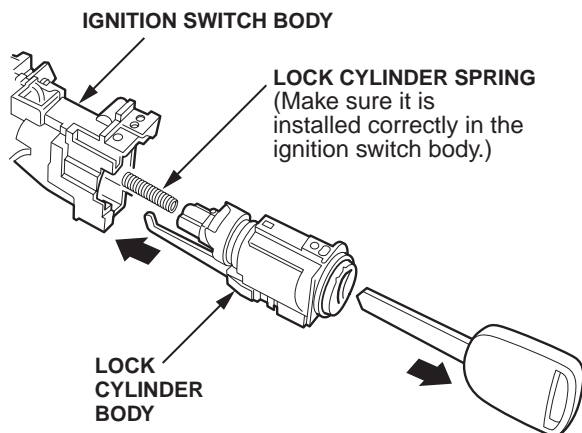
25. Insert the original lock cylinder shaft into the new lock cylinder body, then turn the key 90 degrees clockwise.



26. With the roll pin notch on the inner collar facing up, slide the inner collar onto the lock cylinder shaft. Carefully install the new (long) roll pin using the roll pin punch and a small hammer. Make sure the roll pin is centered.



27. Turn the key to the LOCK (0) position, then remove it. Slide the lock cylinder body into the ignition switch body.

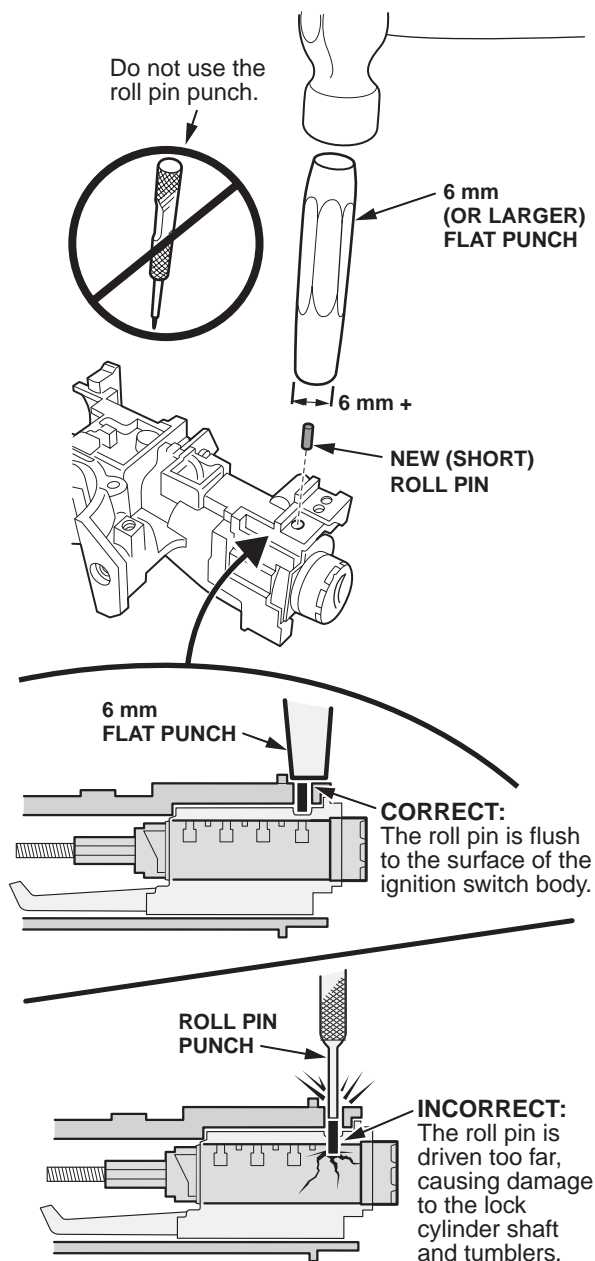


28. Install the new (short) roll pin in the hole on the lock cylinder body with a 6 mm (or larger diameter) flat punch and a small hammer. **Do not use the roll pin punch to drive the new roll pin.** When correctly installed, the top of the roll pin is flush with the lock cylinder body.

NOTICE

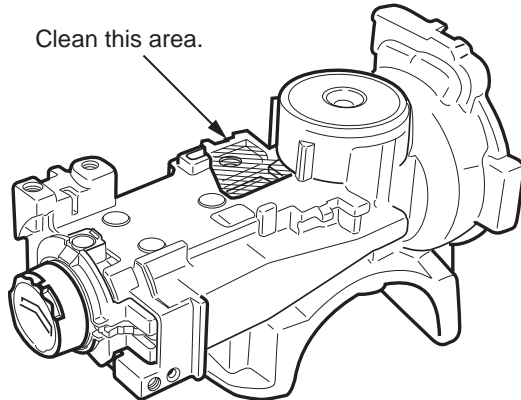
To avoid damaging the lock cylinder shaft and its tumblers, do not drive the roll pin past its flush position on the lock cylinder body.

NOTE: The new roll pin is about 1/2 mm longer than the original one. Do not install the original roll pin; it cannot be fully seated in the new lock cylinder body.

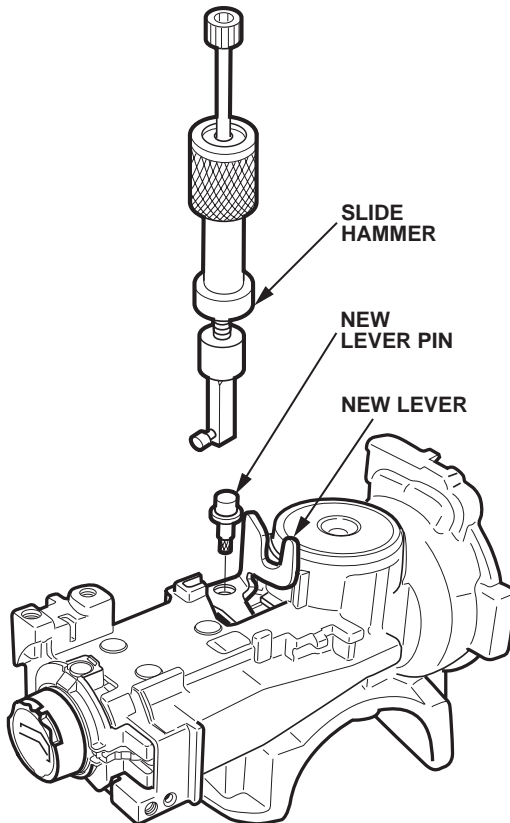


29. Wipe off any debris from the interlock lever's sliding surface on the ignition switch with a clean cloth or a cotton swab.

NOTE: To keep debris out of the ignition switch, do not clean it with compressed air.

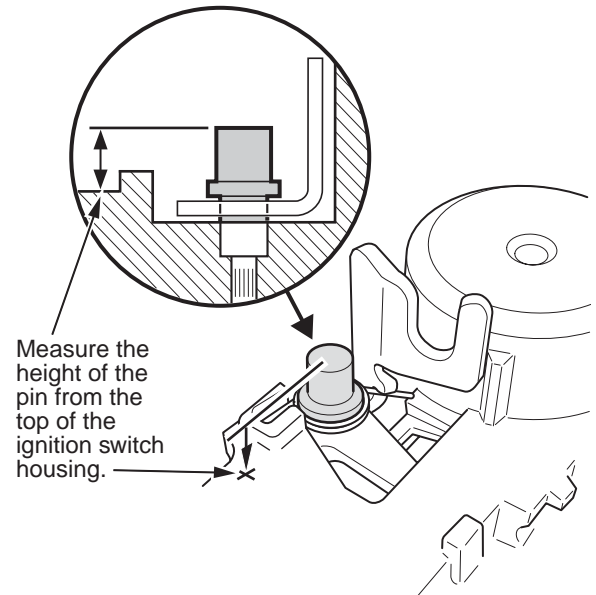


30. Attach the slide hammer to a new lever pin, then insert the lever into the ignition switch body, and seat the pin with the slide hammer.



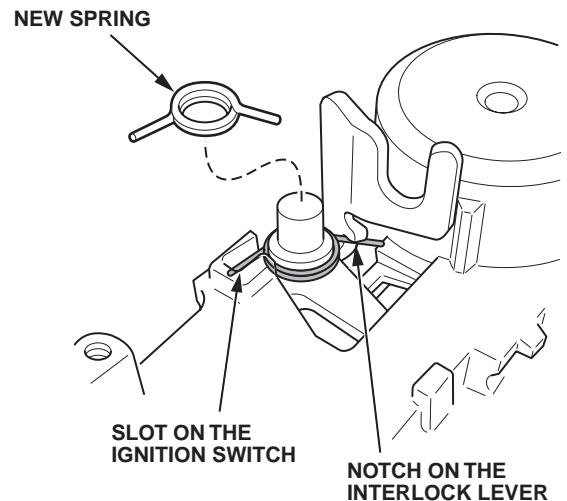
31. Use vernier calipers to measure the installed height of the lever pin. The height should be close to the measurement you made in step 10. If the height is more than 5.3 mm, the pin is not seated. If needed, reattach the slide hammer, then seat the pin.

NOTE: It's normal for the interlock lever to be loose, even when the pin is fully seated.



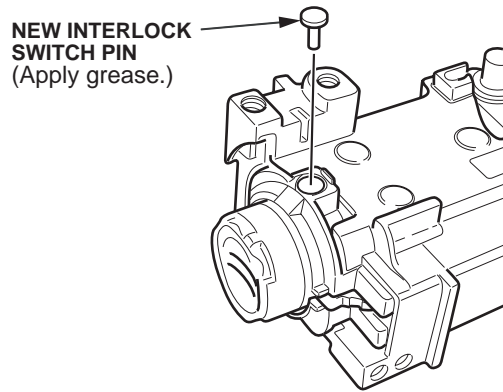
32. Install the new lever spring on the lever. Make sure you attach the ends of the spring correctly:

- The left end goes into the slot on the ignition switch.
- The right end goes behind the notch on the interlock lever.
- Once the spring is correctly installed, make sure the lever moves freely and returns properly.

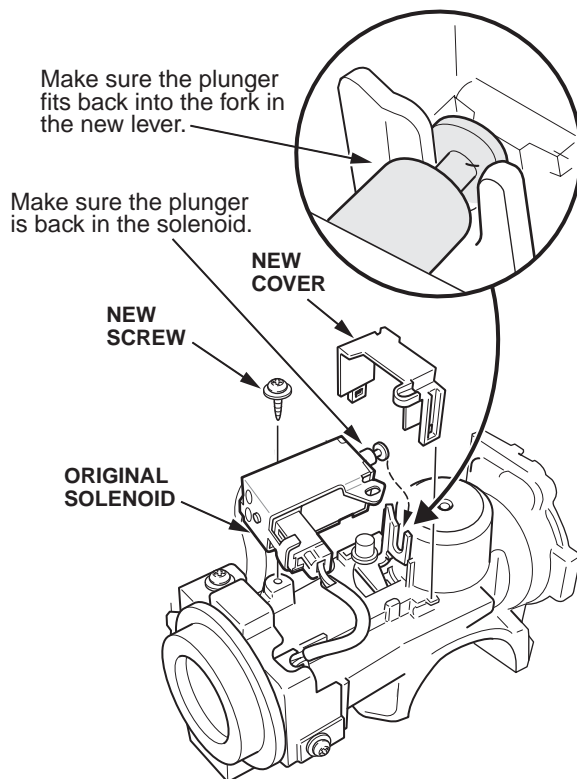


33. Apply a small amount of Permalube grease to the new interlock switch pin, then carefully install the pin on the lock cylinder body.

NOTE: Make sure the pin is installed, or the interlock function will not work.



34. Install the illumination ring and the immobilizer receiver unit on the ignition switch body with four new screws.
35. Install the interlock solenoid on the ignition switch body with the new screw. Make sure the groove of the solenoid plunger is in the fork on the interlock lever.



36. Install a new plastic cover on the interlock solenoid.
37. Attach the ignition switch body to the electrical portion of the ignition switch with new screws.

38. Install the ignition switch on the steering column with two new shear bolts and a new steering column bracket. Tighten the bolts only finger-tight.

NOTE: Make sure the alphanumeric stamped on the new bracket match those on the original bracket, as noted in step 13.

39. Reconnect the illumination ring and the immobilizer receiver unit connectors.
40. Reconnect the negative cable to the battery.
41. Set the parking brake, then turn the ignition switch to the ON (II) position.
42. With the brake pedal pressed, shift the transmission to Neutral.
43. Try to turn the ignition switch from the ON (II) position to the LOCK (0) position **five** times.
- If you *cannot* turn the ignition switch to the LOCK (0) position, your repair was successful; go to step 45.
 - If you *can* turn the ignition switch to the LOCK (0) position, go to step 44.
44. Remove the solenoid cover. Make sure the groove of the solenoid plunger is installed in the fork on the interlock lever. Also make sure the interlock switch pin is installed on the ignition switch body (see step 33). If needed, correct the position of the solenoid plunger and install the switch pin, then reinstall the solenoid cover, and go to step 45.
45. Make sure the ignition switch turns freely. Remove the key, and make sure the steering column lock works correctly. If needed, reposition the ignition switch to make the lock work.
46. Tighten the two steering column shear bolts until their heads twist off.
47. Install the steering column covers.
48. Enter the radio anti-theft code, then enter the radio station presets, and set the clock.
49. Center-punch a completion mark above the 15th character of the engine compartment VIN.

Center-punch here.

1HGCGXXXXXXXXXX

March 2005

Safety Recall: Ignition Key is Removable with the Shift Lever Out of Park

Dear Honda Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

What is the reason for this notice?

Honda Motor Co., Ltd., has determined that a defect relating to motor vehicle safety exists in certain 1999–02 Accords.

The ignition switch contains an interlock lever to prevent key removal unless the shift lever is in the Park position. If the interlock lever is not working correctly, it may be possible to turn the ignition switch to the OFF position and remove the key without shifting into Park. If the driver does not shift to Park and set the parking brake before removing the key, the vehicle could roll and a crash could occur.

What should you do?

Call any authorized Honda dealer, and make an appointment to have your vehicle repaired. The dealer will inspect the ignition switch interlock and replace all needed parts. This work will be done *free of charge*. Please plan to leave your vehicle for half a day to allow the dealer flexibility in scheduling.

Always shift the transmission to Park and set the parking brake before exiting the vehicle.

Who to contact if you experience problems.

If you are not satisfied with the service you receive from your Honda dealer, you may write to:

American Honda Motor Co., Inc.
Honda Automobile Customer Service
Mail Stop 500-2N-7A
1919 Torrance Blvd.
Torrance, CA 90501-2746

If you believe that American Honda or the dealer has failed or is unable to remedy the defect in your vehicle, without charge, within a reasonable period of time (60 days from the date you first contact the dealer for a repair appointment), you may submit a complaint to:

Administrator
National Highway Traffic Safety Administration
400 Seventh Street, SW
Washington, DC 20590

Or call the toll-free Safety Hotline at (888) 327-4236.

What to do if you feel this notice is in error.

Our records show that you are the current owner or lessee of a 1999–02 Accord involved in this campaign. If this is not the case, or the name/address information is not correct, please fill out and return the enclosed, postage-paid *Information Change Card*. We will then update our records.

Lessor Information.

Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within 10 days.

If you paid to have a defective ignition switch replaced sometime in the past, you may be eligible for reimbursement. Refer to the attached *Instructions for Reimbursement* for eligibility requirements and the reimbursement procedure.

If you have questions.

If you have any questions about this notice, or need assistance with contacting a Honda dealer, please call Honda Automobile Customer Service at (800) 999-1009.

We apologize for any inconvenience this campaign may cause you.

Sincerely,

**American Honda Motor Co., Inc.
Honda Automobile Division**

Can't Turn Ignition Switch? Check for Locked Steering

Got a service client complaining he or she can't turn the ignition switch to start the engine? The reason could just be the steering column lock pin is engaged with the front wheels turned. Here's what typically happens:

Some folks use the steering wheel to help support themselves while climbing in or out of the vehicle. It's very common among elderly or disabled drivers. Doing this, though, turns the front wheels, which twists the tires against the ground, and applies torque to the steering column. With the ignition switch in LOCK (O), the steering column lock pin is engaged. But the applied torque on the steering column binds the lock pin, making it tough to turn the ignition switch. The ignition switch won't turn to ON (II) if the lock pin isn't disengaged from the steering column.

Tell your client there's nothing wrong with the ignition switch itself. All he or she needs to do is turn the steering wheel from side to side while turning the switch. This usually releases the lock pin so the engine can be started. In some cases, though, your client may need to give a good tug on the wheel. This could easily happen when parking on a hill and the wheels are turned sharply before the engine is shut off.

This problem is common to all Acura models, but on '05-'06 RLs, it could be misunderstood as a keyless access problem.

Engine Cranks but Won't Start or Starts Then Stalls

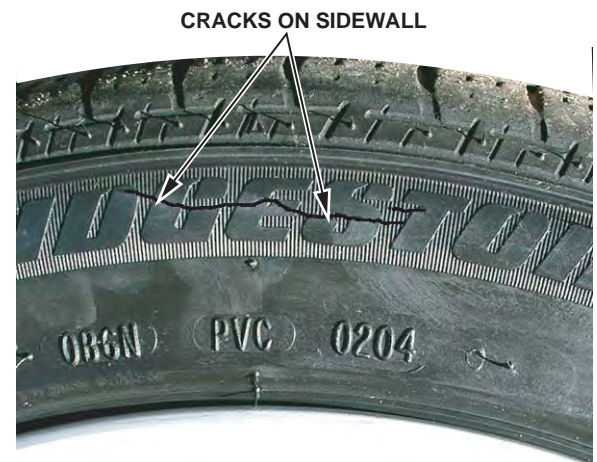
Got an '05-'06 RL owner complaining the engine cranks but it won't start or it starts and then stalls? The reason might just be the PCM auto-start feature. When you turn and hold the ignition switch to START (III) for at least **1 second**, this feature keeps the starter motor running for up to **15 seconds** or until the engine starts.

Normally, the ignition switch returns to ON (II) when you let go of the switch. But due to a rather hefty spring inside, the switch can jump back to ACC (I) if you let go of it too quickly. In ACC (I), the engine, climate control, and gauges are off, but the audio system and navigation system stay on. Vehicle owners think they've got an engine starting problem and report it on the service drive as either a crank but no start problem or an engine start then stall problem.

There's nothing wrong with the ignition switch. Just tell your service clients they just need to avoid letting go of the switch too soon.

Sidewall Cracking on Low-Profile Tires

Low-profile tires are the hot setup these days, and sure look cool, but you've got to keep the tire pressures up to spec or the sidewalls can crack. A low-profile tire in good condition can lose as much as **1 to 2 psi** of pressure every month, so it's a good idea to check and adjust tire pressures at least once a month.



If you've got a vehicle in your shop with cracked sidewalls on a tire that's still under warranty, refer your service client to the appropriate tire dealer (one that services that brand) for possible goodwill consideration. Keep in mind, though, any reimbursement will likely be prorated. If your dealership does business with The Tire Rack, contact them for your client. Tire warranty is handled by a tire dealer and isn't covered under the vehicle warranty.

Dead Power Socket? Keep Electrical Load Below Max

NOTE: This article applies to '05-'06 RLs, '02-'06 RSXs, and '04-'06 TSXs.

The accessory power socket is made to handle a maximum electrical load of **120 watts (10 amps)**. Exceed that limit over a period of time, and the socket could overheat and cause an open circuit.

If you've got a vehicle in your shop with a dead accessory power socket, check for continuity between the center contact and the wire terminal. If you find an open circuit, remind your service client to keep the electrical load **below 120 watts** or the problem could wind up happening again.

Rearview Image Is Delayed in Reverse or Stays On in Drive

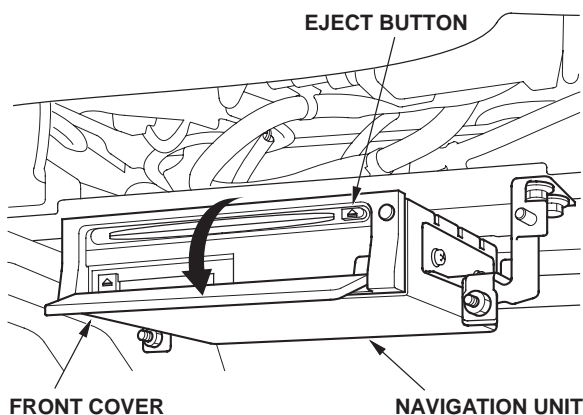
NOTE: This article applies to '05 Odyssey EX-L and Touring models with the navigation system.

If there's a **10-second or more** delay for the rearview image to appear on the navigation system display screen when you move the shift lever to **R**, or the rearview image stays on for an extended period of time once you move the shift lever to **D**, you may need to update the navigation system software. Later software cuts down the delay time to **1 or 2 seconds** and keeps the rearview image from lingering with the shift lever in **D**. Here's what you need to do:

1. Check the software version that's listed on the **System Information** screen.
 - If the software version is 1.14.00, you've already got the latest software. Go to step 8.
 - If the software version is something earlier than 1.14.00, go to step 2.
2. Borrow a navigation DVD from a '05 Odyssey built after 3/3/05. That DVD is marked version 4.13c and has a *white* label.

IMPORTANT: *Never* try this procedure using the navigation DVD from a '06 Odyssey (software version 4.31). It would rewrite the operating system software, making your customer's DVD unusable.

3. Start the engine, then open the front cover of the navigation unit under the driver's seat.



4. Press the **EJECT** button on the front of the unit, and remove the DVD.
5. Insert the borrowed DVD (software version 4.13c), and close the front cover. Make sure you leave the engine running while the data uploads to the navigation unit.

6. Select **OK** on the disclaimer screen.
7. Press the **EJECT** button, remove the DVD, and insert the original one. The navigation system now has the updated software (version 1.14.00).
8. Check the rearview image as you move the shift lever to **R** and then to **D**.
 - If there's an image delay of about **1 to 2 seconds**, this is characteristic for this software.
 - If there's still an image delay of **10 seconds or more**, replace the navigation unit.
9. Refer to page 23-67 of the '05-06 Odyssey S/M, and do a map match. (Online, enter keyword **NAVI**, and select **How to Troubleshoot the Navigation System (With Navigation)** from the list.
10. Return the donor DVD to the donor vehicle.

Can't Turn Ignition Switch? Check for Locked Steering

Got a service customer complaining he or she can't turn the ignition switch to start the engine? The reason could just be the steering column lock pin is engaged with the front wheels turned. Here's what typically happens:

Some folks use the steering wheel to help support themselves while climbing in or out of the vehicle. This is very common among elderly or disabled drivers. Doing this turns the front wheels, which twists the tires against the ground. The twisted tires apply torque to the steering column. With the ignition switch in LOCK (0), the steering column lock pin is engaged. But the applied torque on the steering column binds the lock pin, making it tough to turn the ignition switch. The ignition switch won't turn to ON (II) if the lock pin isn't disengaged from the steering column.

Tell your customer there's nothing wrong with the ignition switch itself. All he or she needs to do is turn the steering wheel from side to side while turning the switch. This usually releases the lock pin so the engine can be started. In some cases, though, your customer may need to give a good tug on the wheel. This could easily happen when parking on a hill and the wheels are turned sharply before the engine is shut off.

EA09-001

HONDA

5-29-2009

ATTACHMENT

Q8_English

REDACTED



02M ACCORD Interlock Failure Investigation Results of Returned Parts

**Honda Lock
Quality Analysis Dept
11 February 2009**

Approve	Check	Create

Contents

Honda Lock

1. Occurrence situation

2. Parts investigation results

①. Appearance investigation

②. Interlock solenoid performance confirmation

③. Interlock lever block confirmation

④. Disassembly investigations

1. Occurrence situation

Honda Lock

No	Part ①	Part ②
Series	02M ACCORD(TL)	02M ACCORD(TL)
Frame No	1HGCG16572A038308	1HGCG165X2A013547
Prod date	2001.12.05	2001.09.14
Reg date	2002.06.22	2001.12.20
Occ date	2007.08.29	2008.05.12
Mileage	62,500mile	63,000mile
Location	US market (OH)	US market (WA)
Contention	<p>AFTER PARKING IN THE DRIVEWAY, THE CONTACT REMOVED THE KEY FROM THE IGNITION WHILE THE GEAR WAS IN DRIVE. A FEW MINUTES LATER, THE VEHICLE ROLLED FORWARD AT APPROXIMATELY 3 MPH AND DAMAGED THE GARAGE. THE DEALER INFORMED HIM THAT NHTSA CAMPAIGN ID NUMBER 05V025000 (ELECTRICAL SYSTEM: IGNITION: SWITCH) ONLY PERTAINS TO VEHICLES THAT WERE MANUFACTURED IN JAPAN. THE CURRENT AND FAILURE MILEAGES WERE 62,500.</p>	<p>THE CONTACT PARKED THE VEHICLE ON THE SIDE OF THE STREET AND IT DRIFTED INTO ANOTHER VEHICLE. HE RETURNED TO THE VEHICLE AND NOTICED THAT THE GEAR WAS IN DRIVE INSTEAD OF PARK. THERE WAS NO PRIOR WARNING TO THIS FAILURE AND BOTH VEHICLES SUSTAINED DAMAGES. THERE WAS PROPERTY DAMAGE RELATED TO THIS INCIDENT, BUT NO INJURIES. THE VEHICLE WAS TAKEN TO AN INDEPENDENT MECHANIC AND THEY STATED THAT THE FAILURE WAS RELATED TO THE IGNITION SWITCH. THE CONTACT WAS INFORMED THAT THE IGNITION KEY SHOULD NOT RELEASE IF THE VEHICLE WAS NOT IN THE PARK POSITION. THE VEHICLE WAS NOT REPAIRED. THE FAILURE MILEAGE WAS 63,000 AND CURRENT MILEAGE WAS 65,000.</p>
Part No.	35100-S84-A33	35100-S84-A33
Part prod date	1K28 (28-Nov-2001, at HLA)	1I06 (6-Sept-2001, at HLA)

1. Failed parts were made in 2001 and both have covered approx 60,000 miles, and is a durability failure

2. Parts investigation results

②. Interlock solenoid performance confirmation

Honda Lock

<Interlock solenoid (electric circuit) performance inspection>

Item	
Interlock operating voltage (V)	
Interlock return voltage (v)	
Coil resistance (Ω)	
Response (msec) (with 9.5V)	

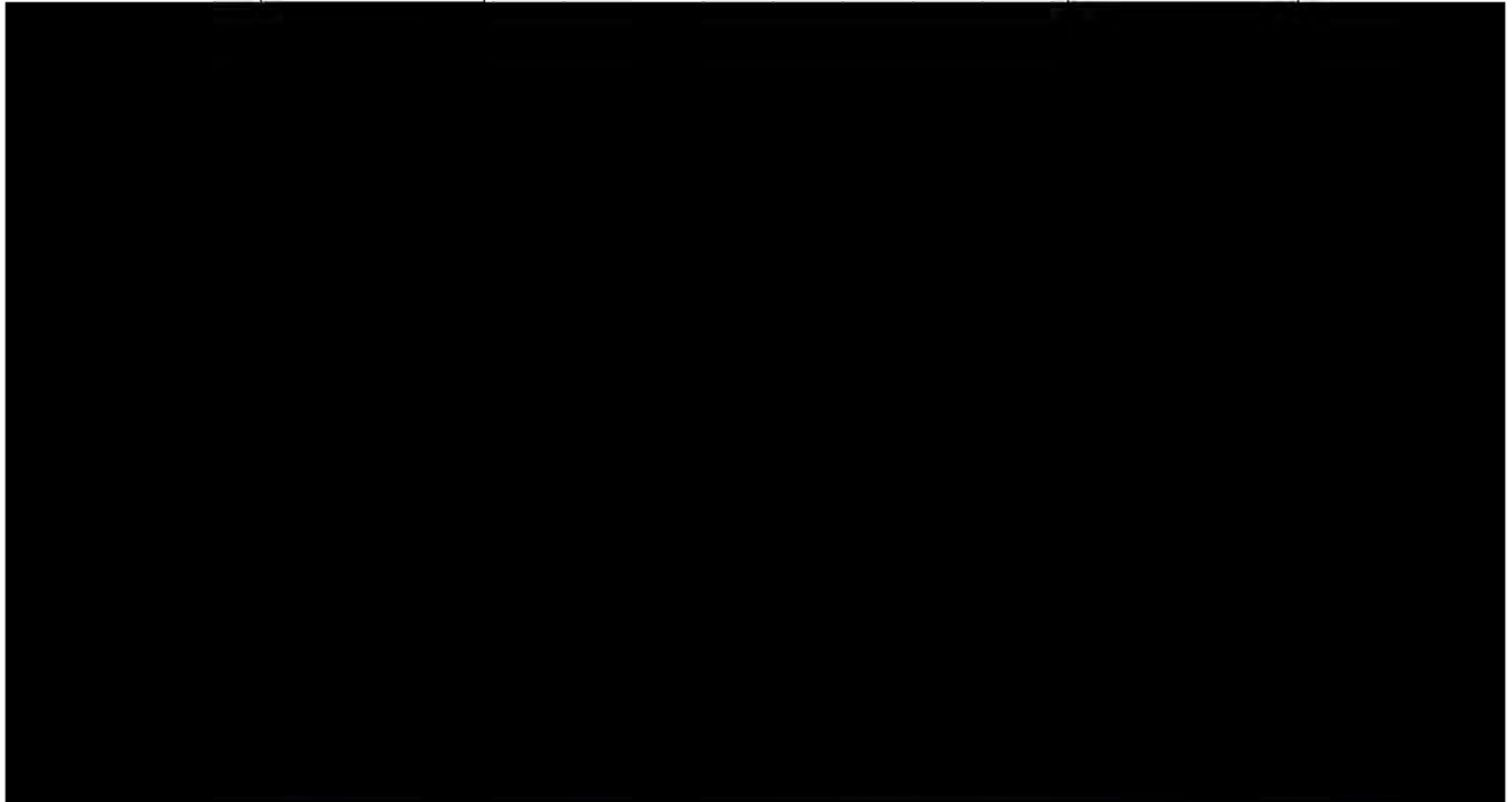
Both parts ① and ② show no abnormality with interlock solenoid performance.

<Interlock solenoid (lever) response waveform>

Honda Lock

Part ①

Part ②



Abnormality is not confirmed with response, with operating voltage of 9.5V.

2. Parts investigation results

③. Interlock lever block confirmation

Honda Lock

<Interlock lever block confirmation>

Measurement method:

Measure slip out torque when key is turned from blocked condition (ACC to LOCK) by applying 9.5V to interlock solenoid.



Sample				
Part ①				
Part ②				

Confirmed slip out at torque below spec with interlock actuated,
on both parts ① and ②.

2. Parts investigation results

①. Appearance investigation

Honda Lock

Part ①



Entire ASSY: abnormality not confirmed



Stamp indicating production country and assy date



Interlock related areas: no visual defects

Part ②



Entire ASSY: abnormality not confirmed



Stamp indicating production country and assy date



Interlock related areas: no visual defects

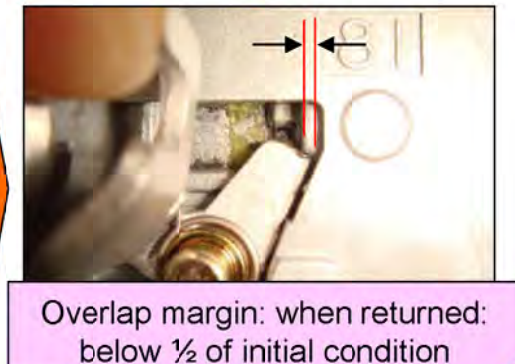
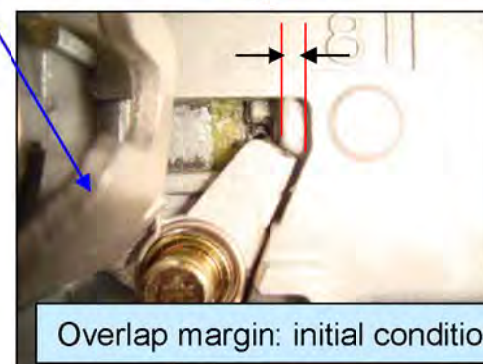
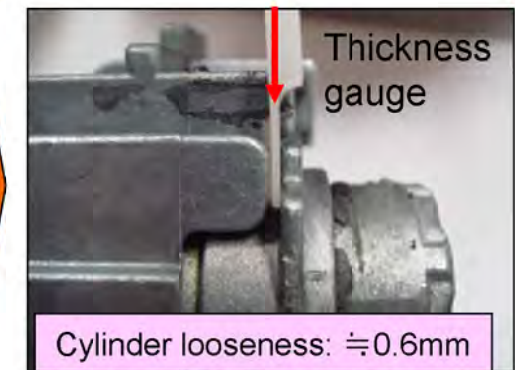
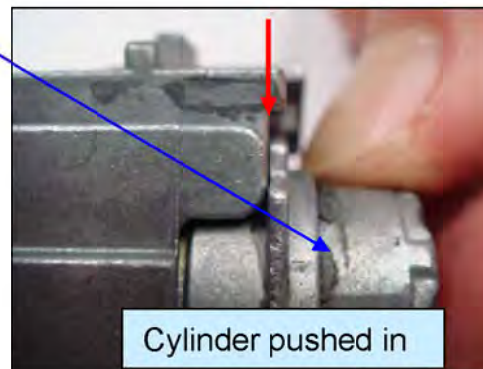
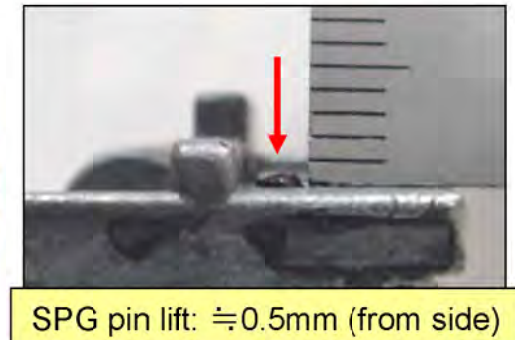
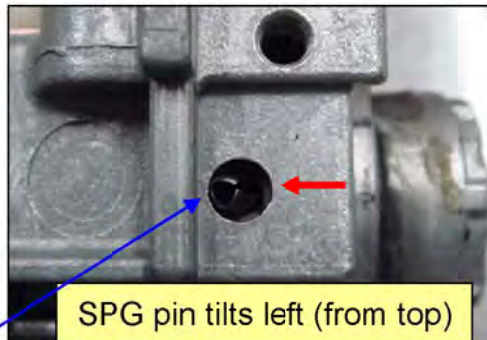
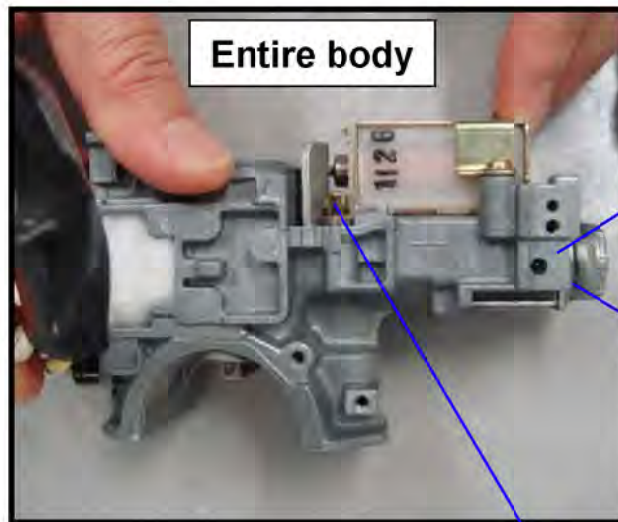
Visual defects such as damage or breakage could not be confirmed on both parts ① and ②.

2. Parts investigation results

④. Disassembly investigations

Honda Lock

Part ①



-Lifting and tilting of the SPG pin created looseness of the cylinder, which reduces the overlap margin of the lever and inner collar.

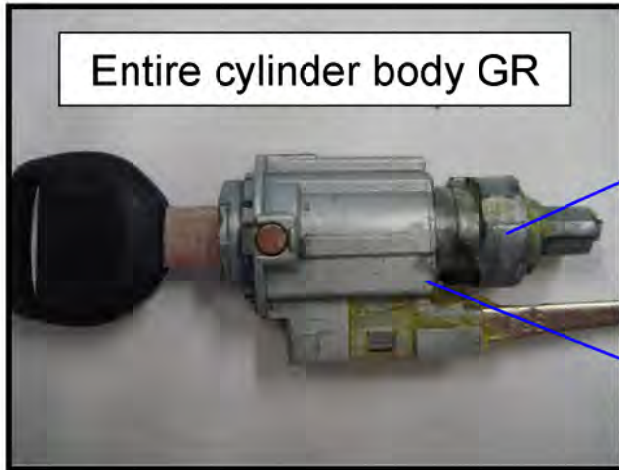
2. Parts investigation results

④. Disassembly investigations

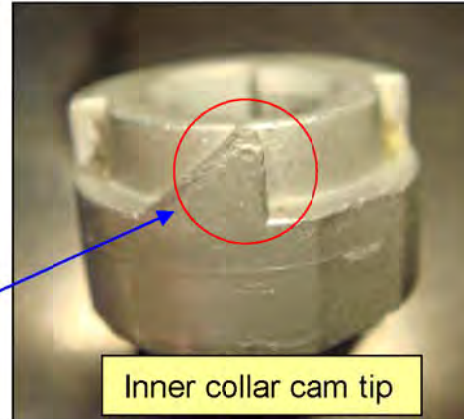
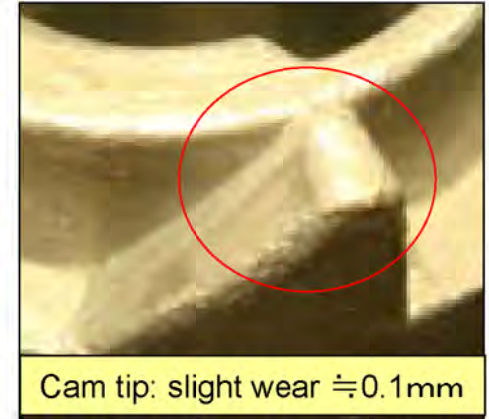
Honda Lock

Part ①

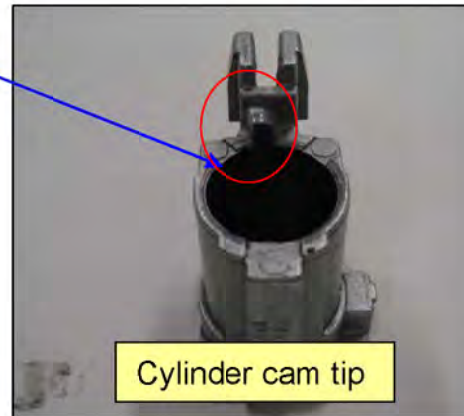
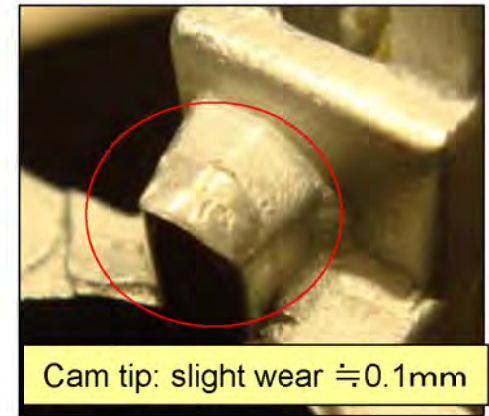
Entire cylinder body GR



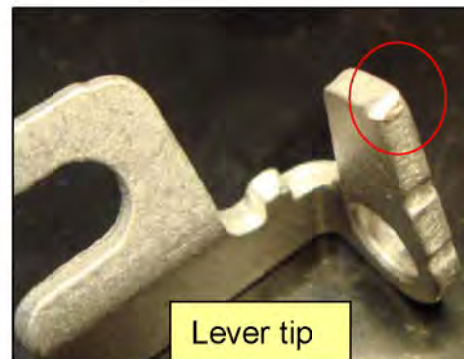
Inner collar cam tip

Cam tip: slight wear $\approx 0.1\text{mm}$ 

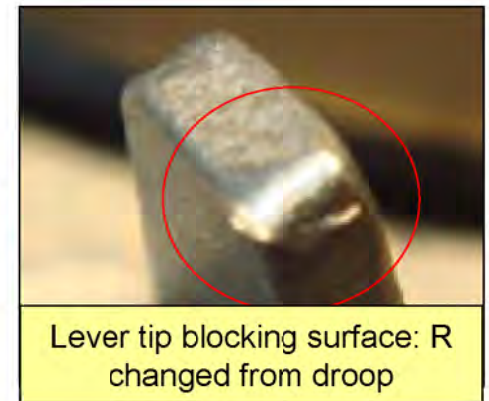
Cylinder cam tip

Cam tip: slight wear $\approx 0.1\text{mm}$ 

Lever tip



Lever tip blocking surface: R changed from droop



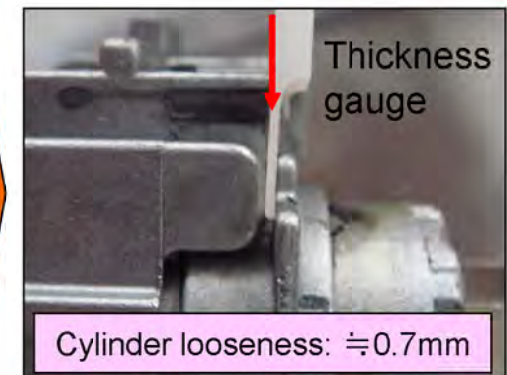
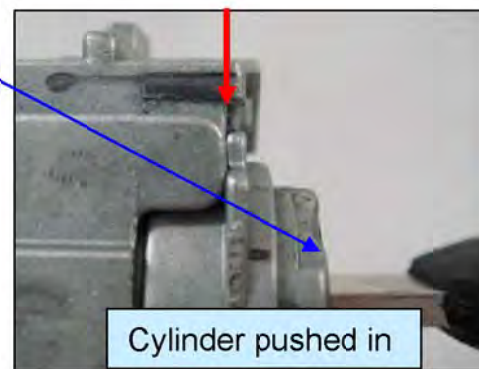
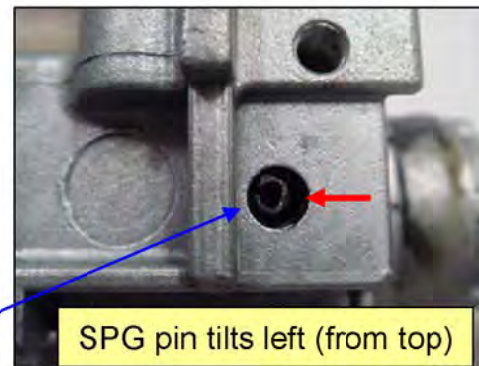
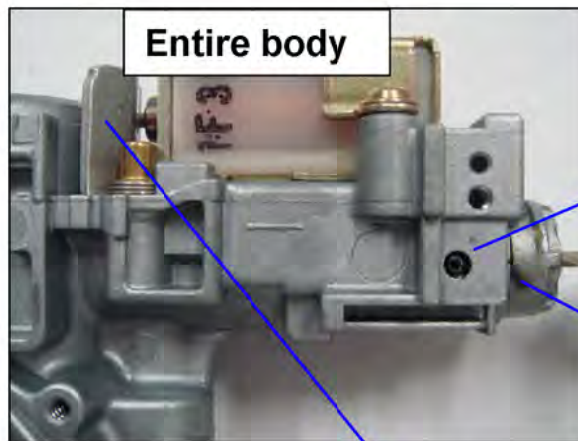
-Inner collar and cylinder cam tip wear is around 0.1mm, and is normal.
-Lever tip drooped R is because it was forcibly turned with less overlap margin.

2. Parts investigation results

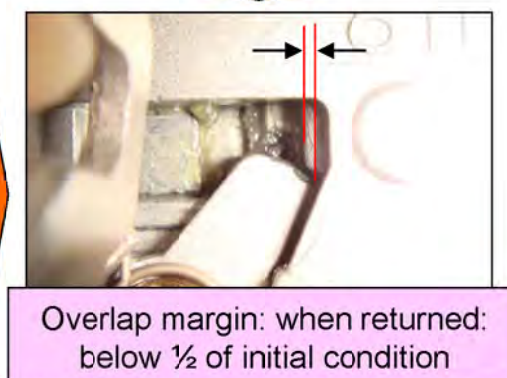
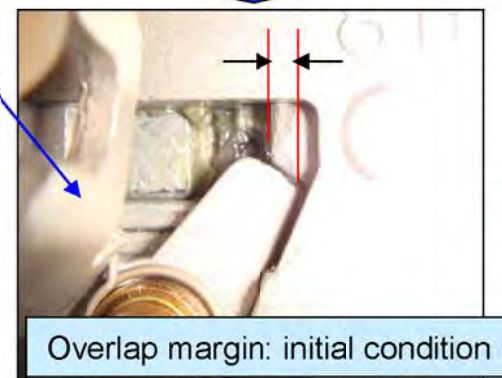
④. Disassembly investigations

Honda Lock

Part ②



-Lifting and tilting of the SPG pin created looseness of the cylinder, which reduces the overlap margin of the lever and inner collar.

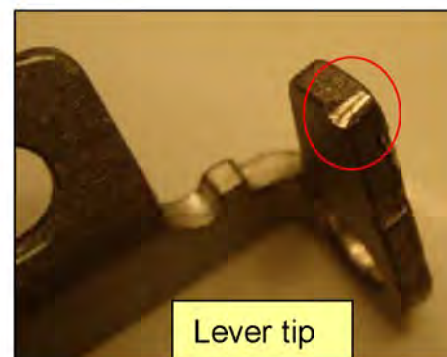
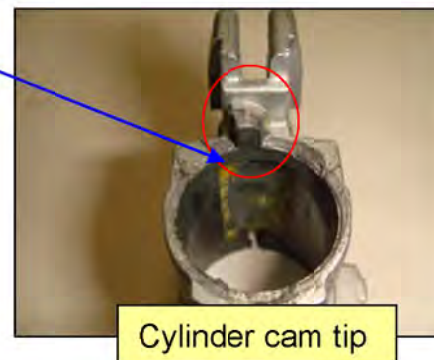
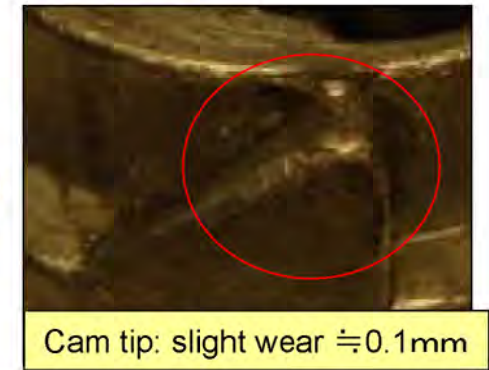
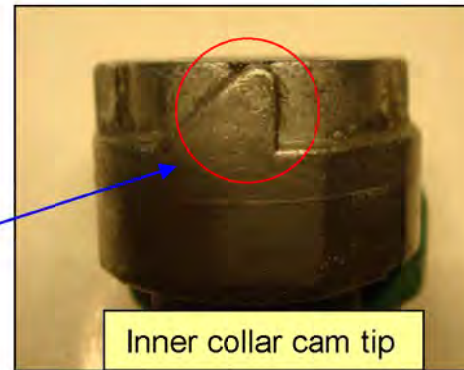
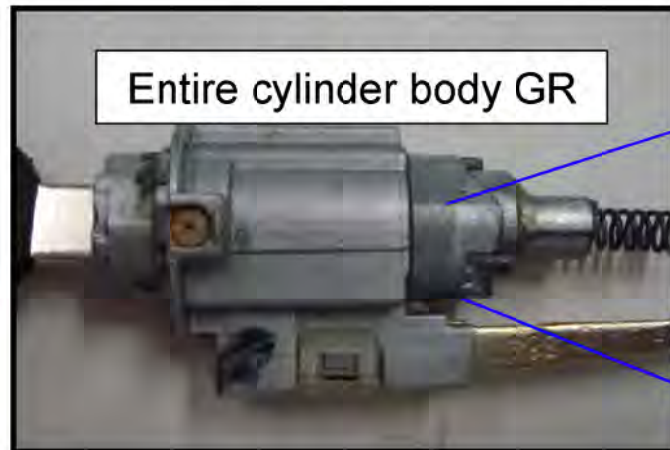


2. Parts investigation results

④. Disassembly investigations

Honda Lock

Part ②



-Inner collar and cylinder cam tip wear is around 0.1mm, and is normal.
 -Lever tip drooped R is because it was forcibly turned with less overlap margin.

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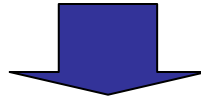
5-29-2009

ATTACHMENT Q9A

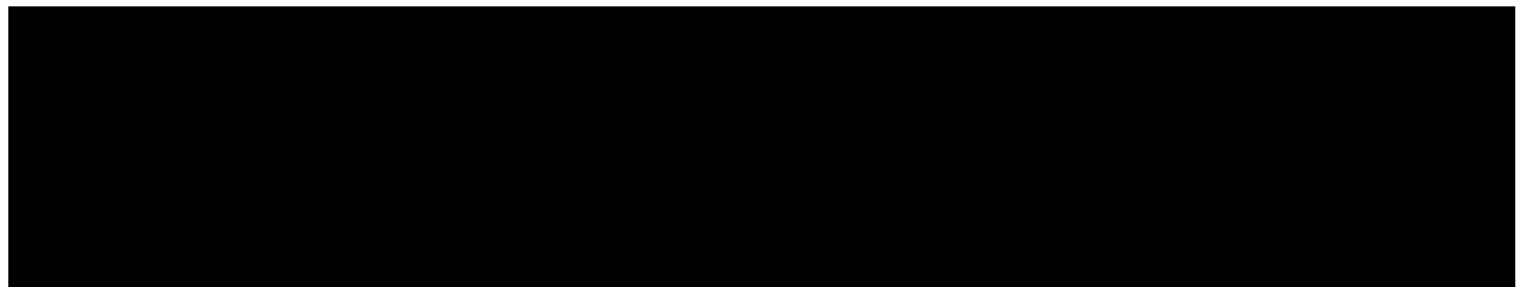
English REDACTED

Background of SPEC settings

Spec was set when Honda first launched interlock function.



**Spec was set using steering lock developed between 1984~85.
Details of the grounds in deciding spec is unknown as there
are no documents, and the developer is no longer here.**



S84/S5A/SEA all meet this requirement.

After the market action in January 2005, user monitoring was carried out to understand latest market usage situation.

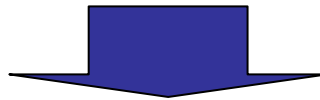
Users subject to this investigation:

Honda Lock Alabama Factory associates, men only, 50 members.

Duration: 05/3/7~ 3/8

Monitoring vehicle: 04M ACCORD / 05M ODYSSEY

KEY SDA type / S3V type



User operating torque obtained from this monitoring activity was reflected to spec, and recurrence prevention was carried out by assuring this spec for future steering locks.

Spec already issued 05/7/1

User monitoring details

Measure torque on key from each of the following operation methods



NO	Target	Operation	Interlock operation	Engine condition	Measurement cycles	Operation method
1	Normal operation Torque/load when key is operated normally	Normal operation	No	Normal engine start	5 times / person (50 people)	Explanation: please operate normally. (1) Insert key (2) 0 → I → II → III (engine start) (3) III → II → I → 0 → remove key
2	Unexpected engine start up failure Torque/load with normal key operation, but without starting the engine	Normal operation	No	No engine start	3 times / person (50 people)	Explanation: please operate normally. (1) Insert key (2) 0 → I → II → III *Add SW to immobi so that engine is not started, without the person knowing.
3	Unexpected interlock Torque/load with normal key operation but with interlock block	Normal operation	Yes	Normal engine start	2 times / person (50 people)	Explanation: please operate normally. (1) Insert key (2) 0 → I → II → III (engine start) (3) III → II → I → interlock block *Add interlock SW so that interlock is blocked without the person knowing.
4	Limit torque Understanding MAX operating torque	Limit	Yes	No engine start	1 time / person (4 people)	Explanation: please operate as hard as you can. There are 3 types of operation -R turn stopper at III position -L turn stopper at I position -L turn stopper at 0 position

New spec settings

User monitor measurement method

Area to measure
key rotation torque



Area to measure
key bending torque



Recorder



Strain amp.

Key installation
condition for
measurement



Interlock ON/OFF SW



Key operation
condition for
measurement



New spec settings

PAGE CONTAINS

6

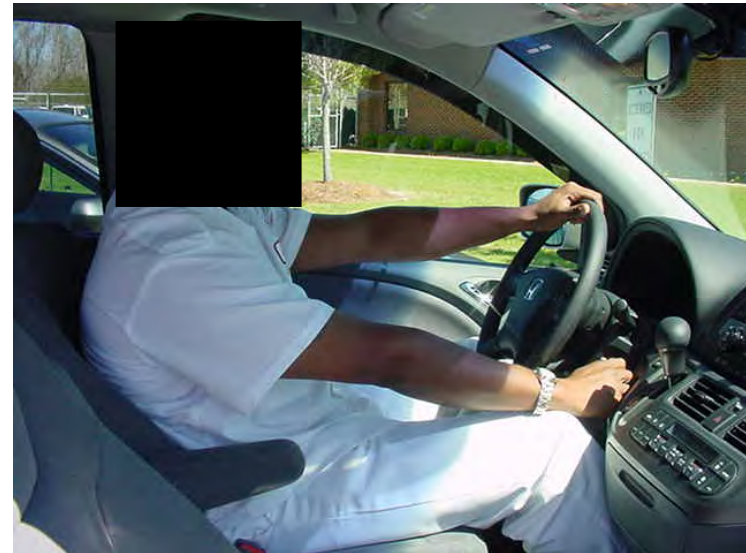
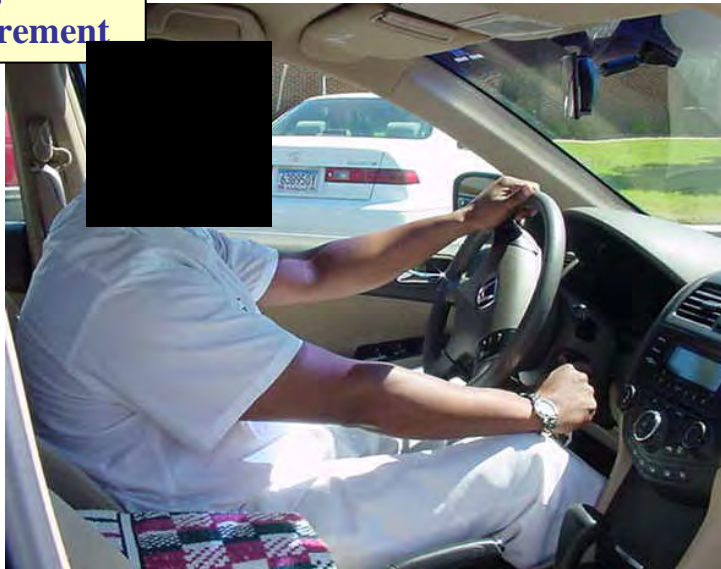
Photos taken
during
measurement

Accord

Monitor A
Height = 185

CONFIDENTIAL INFORMATION

Odyssey



New spec settings

PAGE CONTAINS

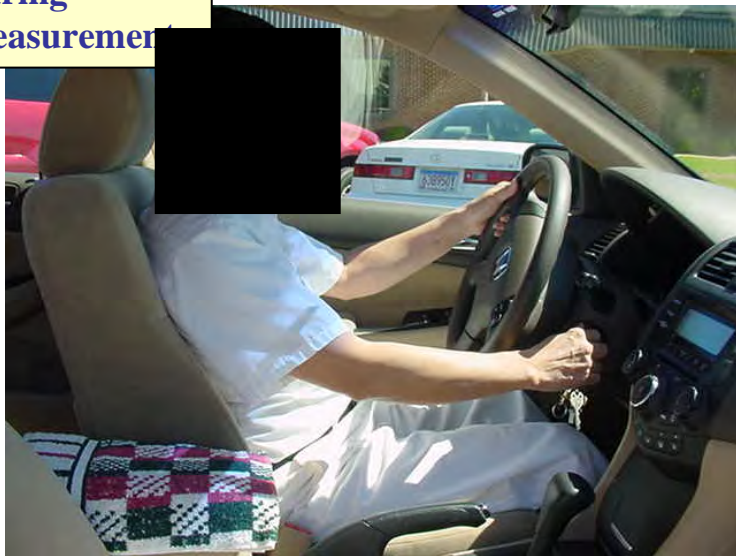
7

Photos taken
during
measuremen

Accord

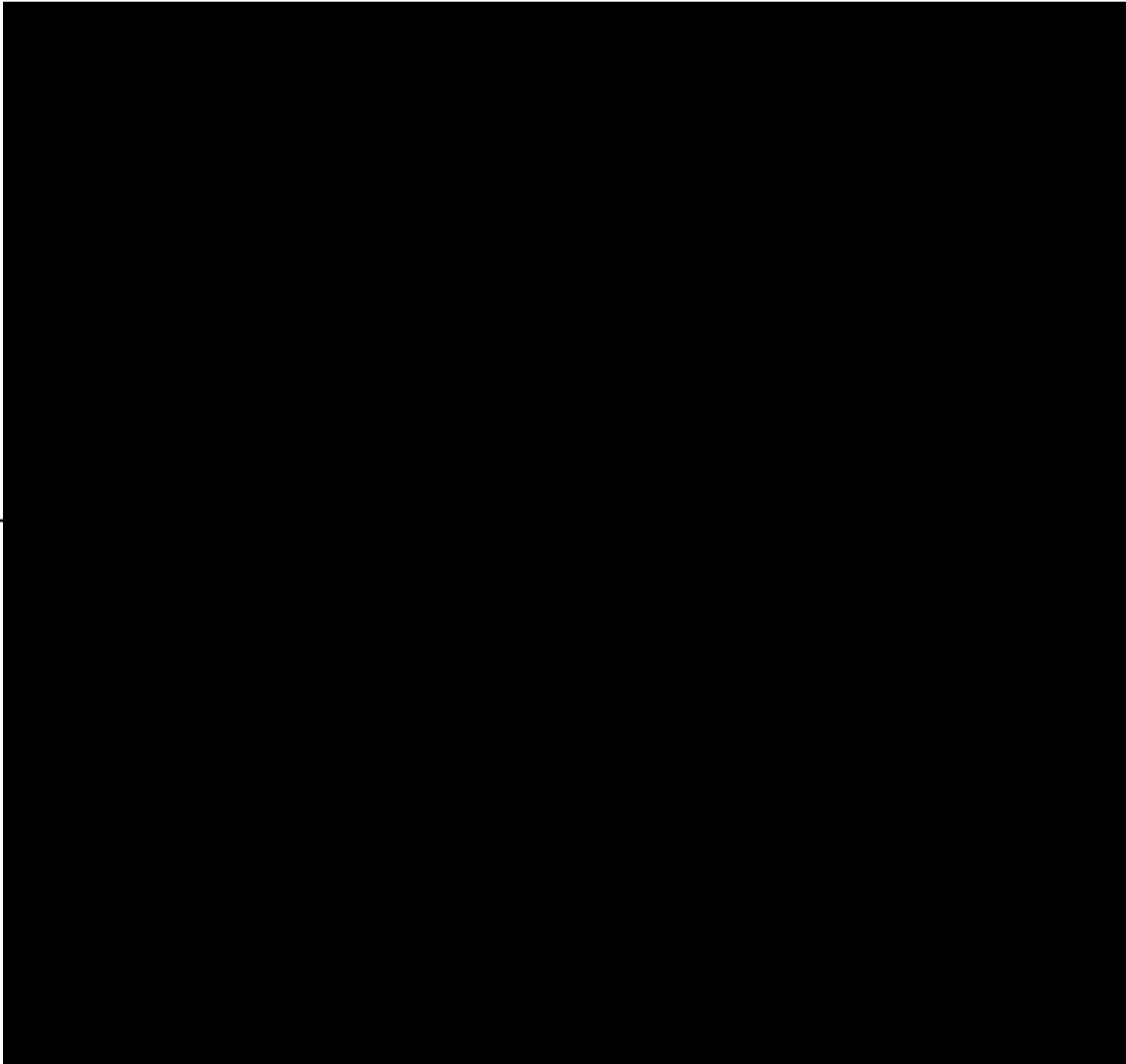
Monitor B
Height = 165

CONFIDENTIAL INFORMATION
Odyssey



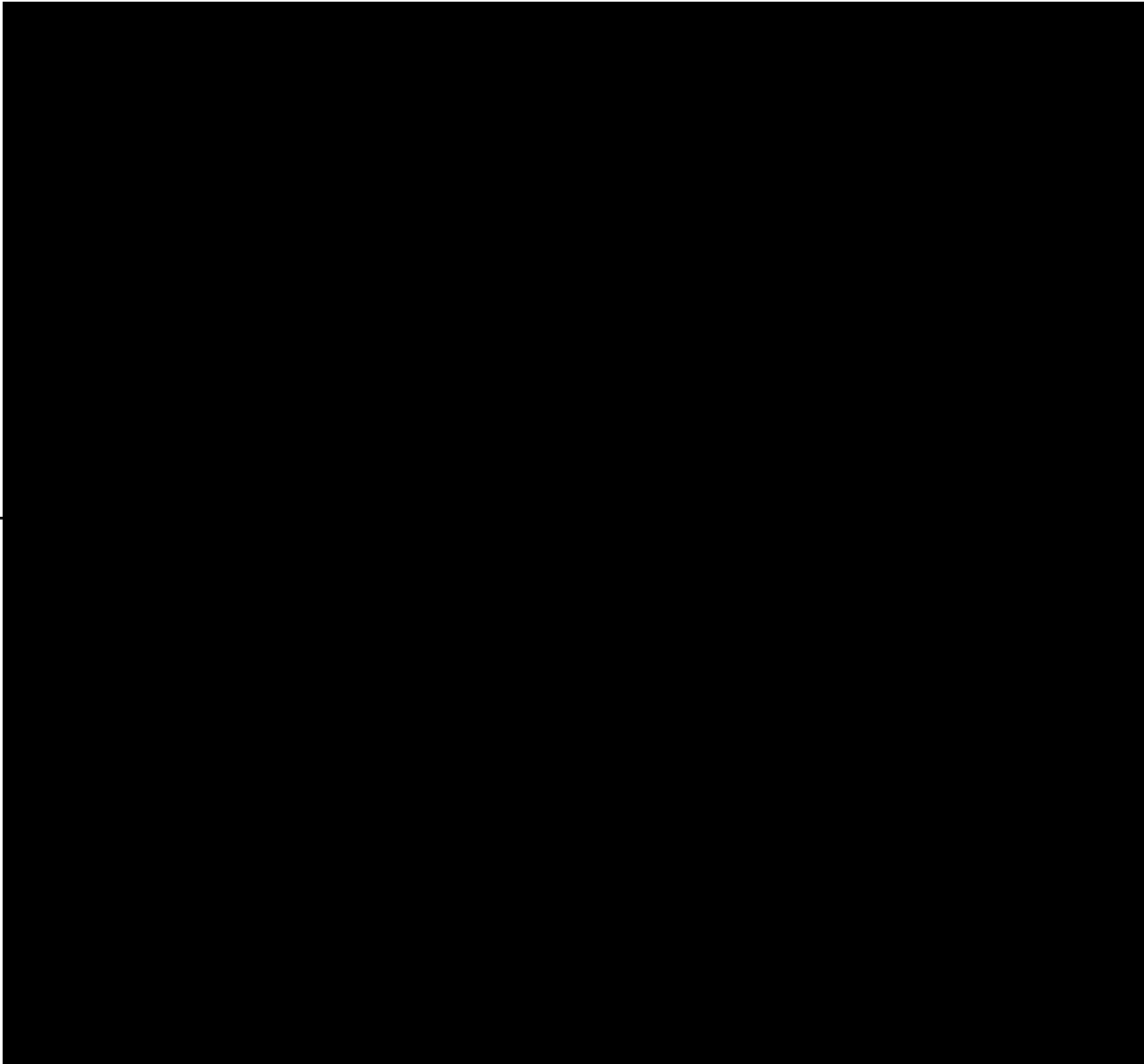
User monitor measurement results

CONFIDENTIAL INFORMATION

NO	Item	Results
1	Normal operation Torque/load when key is operated normally	
2	Unexpected engine start up failure Torque/load with normal key operation, but without starting the engine	

User monitor measurement results

CONFIDENTIAL INFORMATION

NO	Item	Results
3	Unexpected interlock Torque/load with normal key operation but with interlock block	
4	Limit torque Understanding MAX operating torque (III position R turn)	

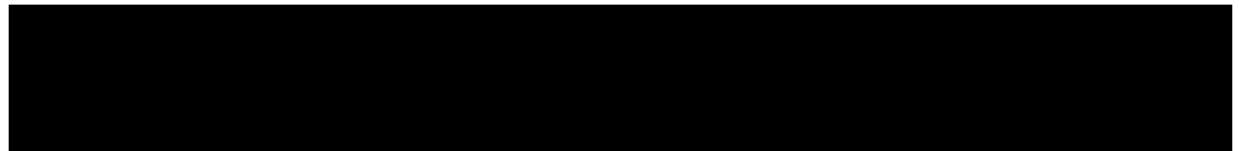
User monitor measurement results

CONFIDENTIAL INFORMATION

NO	Item	Results
5	Limit torque Understanding MAX operating torque (I position L turn)	
6	Limit torque Understanding MAX operating torque (0 position L turn)	

Spec changes from user monitoring results

SPEC items			SPEC values		Content
			Current	Proposal	
Repeat operation durability test	Interlock block durability	Stopper torque			
Strength test	Key rotating torque				



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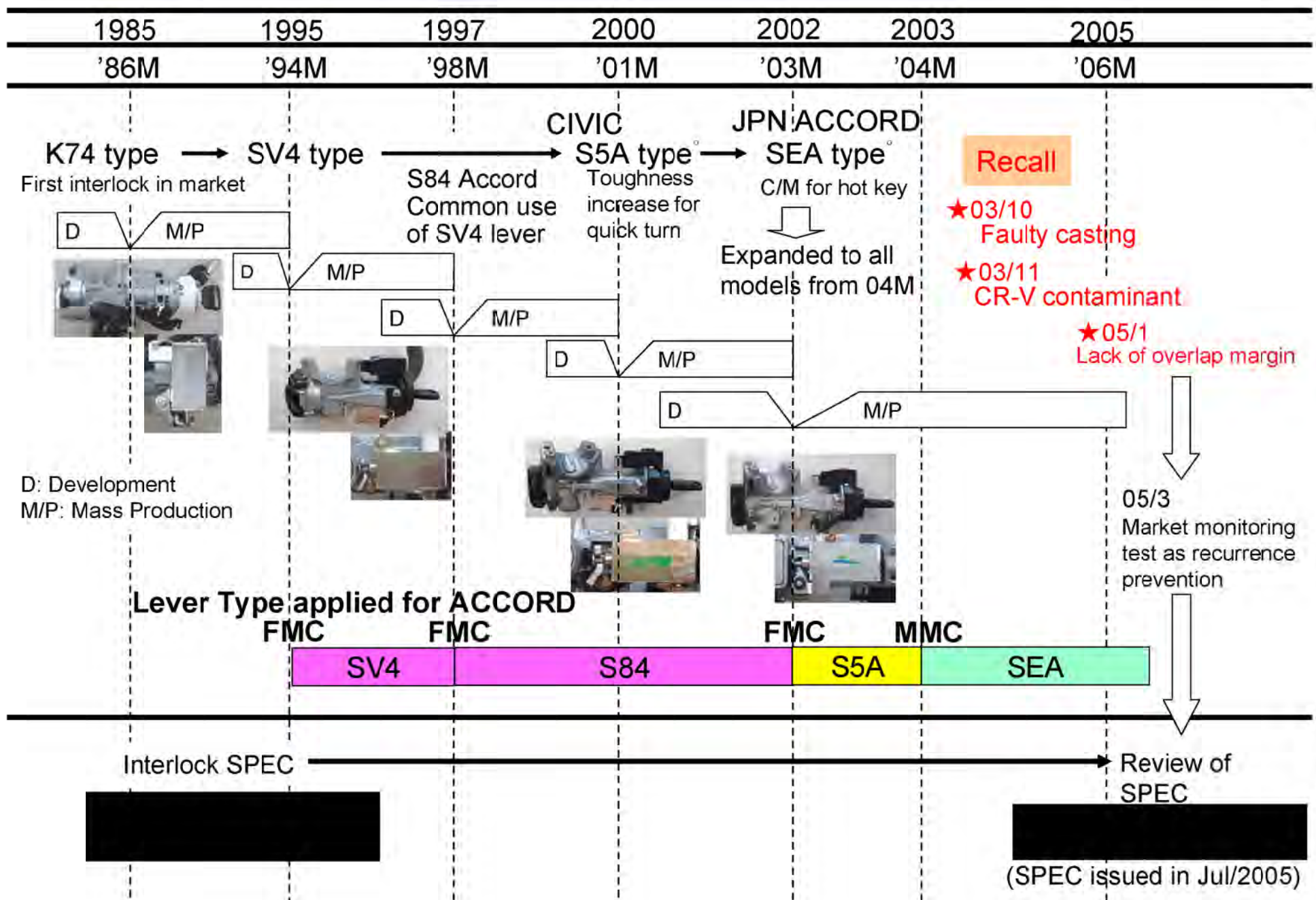
ATTACHMENT Q9B

English REDACTED

SEA Interlock Lever Development History












S84(SV4) \Rightarrow S5A \Rightarrow SEA change points

Interlock development history



S84 Movement of interlock lever

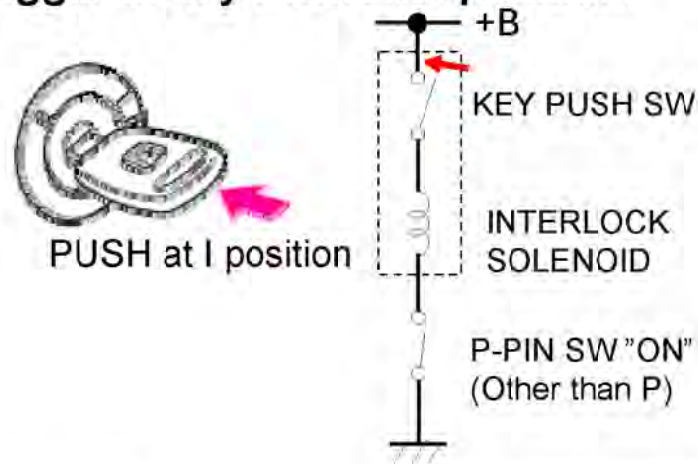


	0	II	I KEY PUSH	0
KEY position	0 	II 	I 	0 
P position	 SOL OFF	 Lever does not move SOL OFF	 SOL OFF	 SOL OFF
Other than P			 Interlock operates by KEY PUSH SOL ON	

S84 Control spec and toughness for quick turn

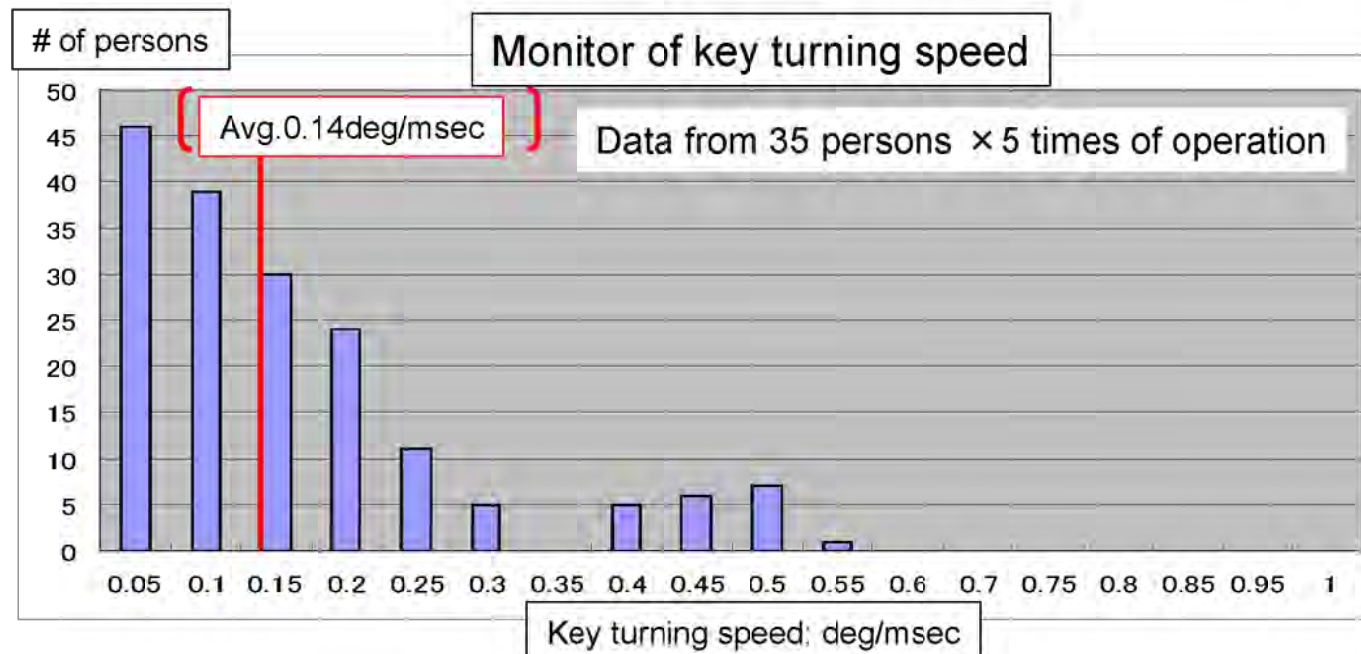
Interlock control spec

Interlock lever starts to move by the trigger of key PUSH at I position



Key slips out if the key is turned within [REDACTED] in which SOLENOID is electrically powered and the lever moves












Key turning speed: [REDACTED]



Key does not slip out at normal operation speed.

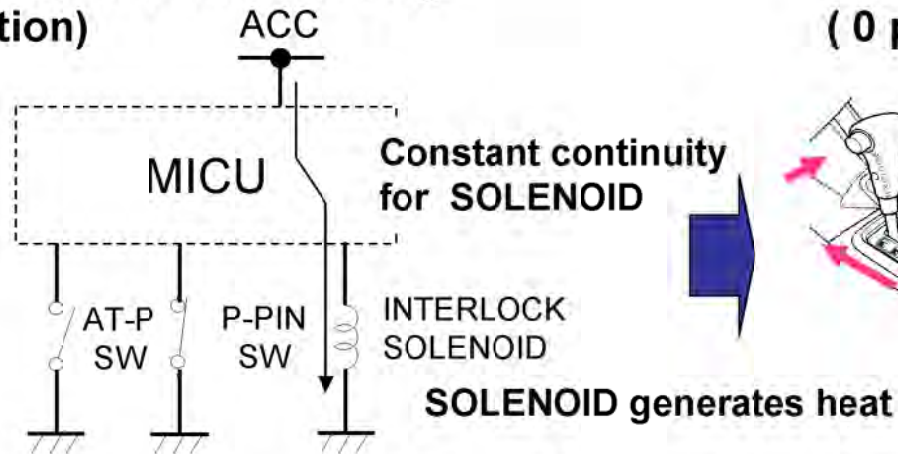
S5A Movement of interlock lever



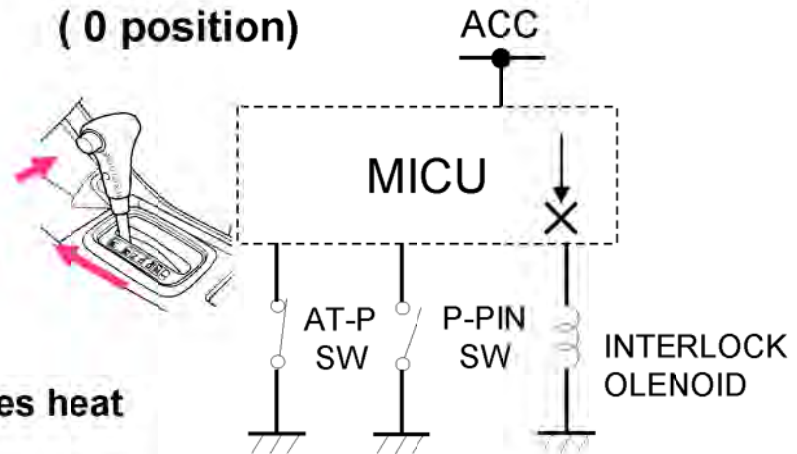
	0	II	I KEY PUSH	0
KEY position	0 	II 	I 	0 
P position	 SOL OFF	 Lever waiting SOL OFF	 SOL OFF	 SOL OFF
Other than P		 Lever waiting SOL ON	 Interlock operates SOL ON	

S5A Interlock control spec and temperature rise

Interlock control while driving
(I/II position)

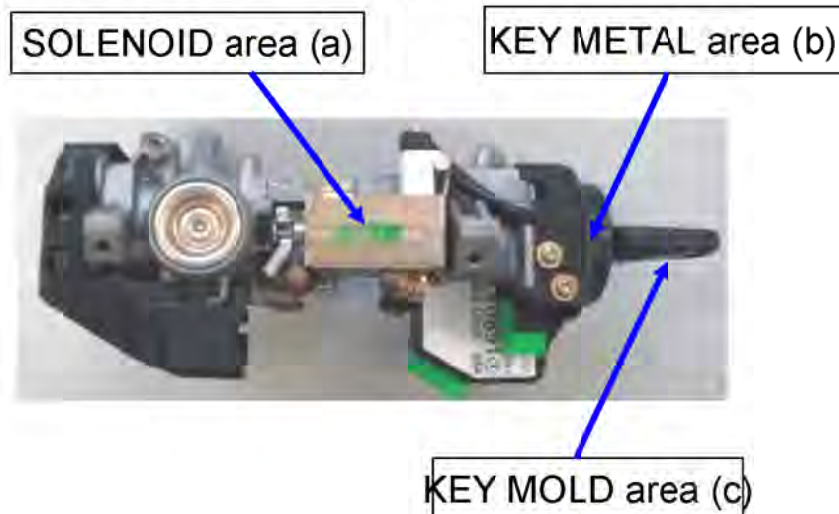


Interlock control when stopped
(0 position)



Key will not slip out even if it is turned quickly since the interlock lever is engaged

Influences by heat generation of SOLENOID



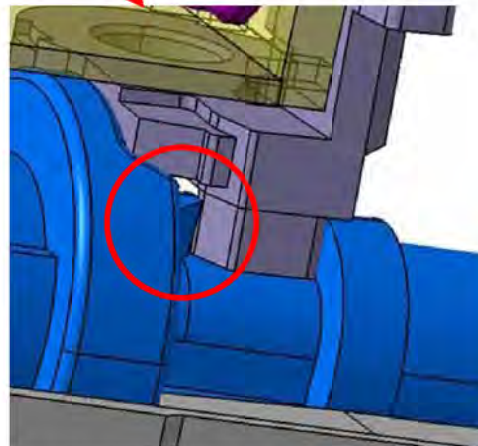
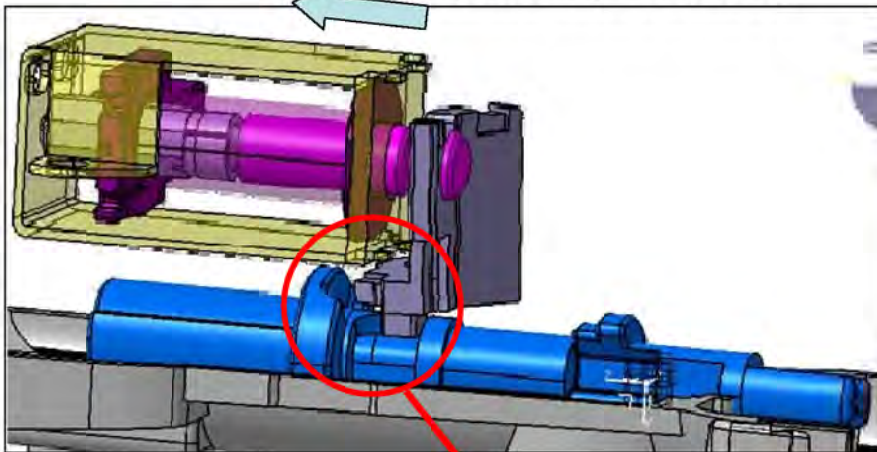
Item	Spec	Rating
SOLENOID spec (at 12V)	Coil resistance	
	Current	
	Power	
Temp. while driving (Ambient temp. : 20°C)	SOLENOID area (a)	
	KEY METAL area (b)	
	KEY MOLD area (c)	

Customers claimed they feel the key is hot.

S5A Structure of interlock lever hold

II position

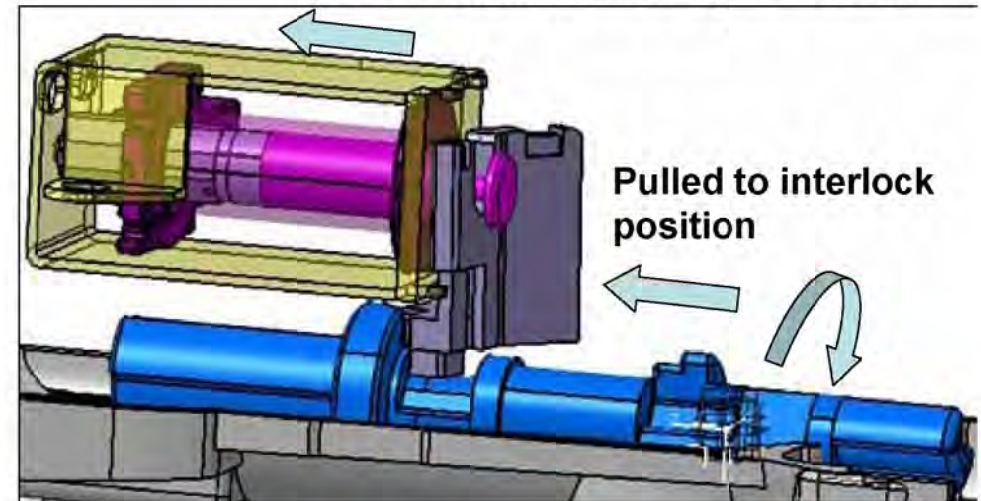
Lever is constantly pulled by SOLENOID



Lever is held by stopper so that it will not be pulled to the interlock position.

I position: Interlock operates












Lever remains pulled by SOLENOID



⇒ Even if the key is turned from II position to I position quickly, SOLENOID remains pulled and the lever is at the interlock position, therefore it will not slip out.

SEA Movement of interlock lever

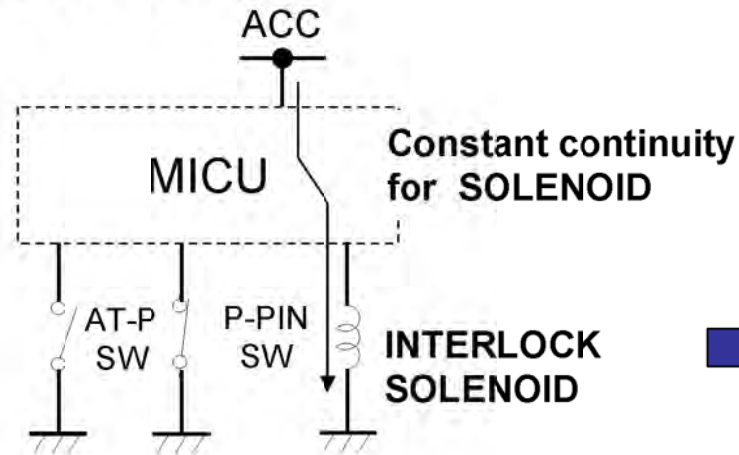


	0	II	I KEY PUSH	0
KEY position	0 	II 	I 	0 
P position	 SOL OFF	 Lever is held at interlock position and waiting (SOL OFF)	 SOL OFF	 SOL OFF
Other than P		 Lever is held at interlock position and waiting (SOL ON)	 Interlock operates SOL ON	

SEA Interlock control spec and temperature rise

Interlock control while driving (I/II position)

Same control as S5A



Reduce temperature rise by spec change of SOLENOID by lowering current for S5A

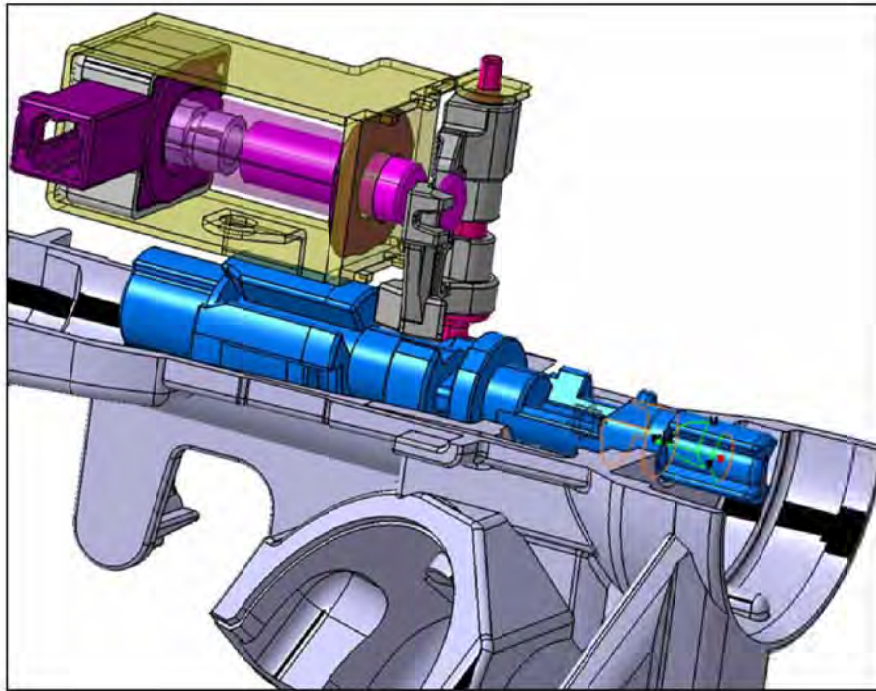
It became possible to reduce the retraction force of SOL, resulting in holding the lever by mechanical friction



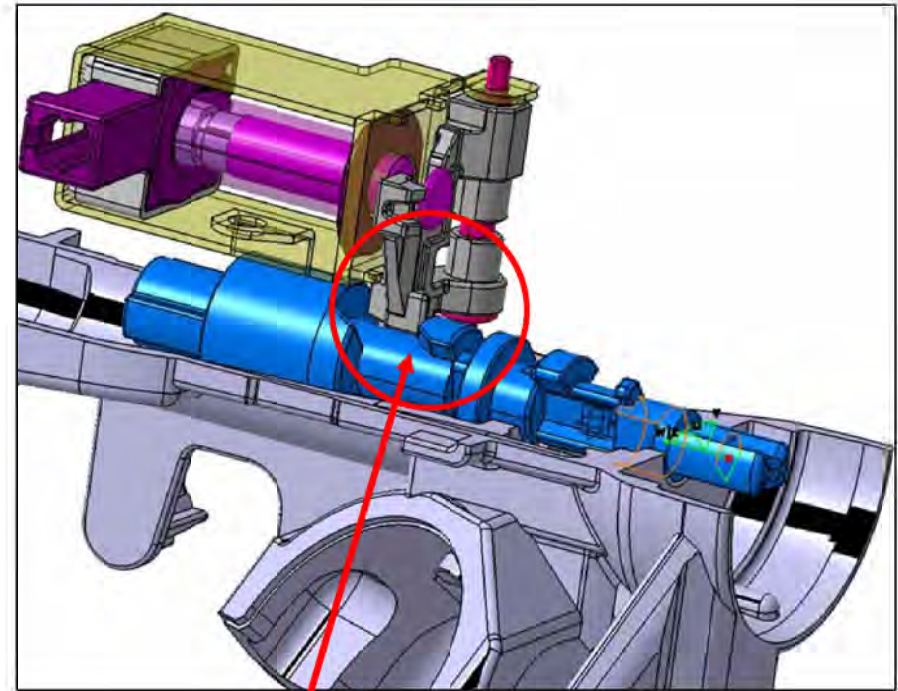
Item	Spec	Rating
SOLENOID spec (at 12V)	Coil resistance	
	Current	
	Power	
Temp. while driving (Ambient temp. : 20°C)	SOLENOID area (a)	
	KEY METAL area (b)	
	KEY MOLD area (c)	

SEA Structure of interlock lever hold

0 position = Lever neutral position



II position = Lever interlock position



Hold lever by inner joint



Possible to reduce electrical lever holding force by SOLENOID







No need to reduce lever weight



Cost reduction by change from S5A aluminum \Rightarrow zinc die-cast

S5A vs. SEA Comparison of lever cost

Item	Spec	S5A	SEA
		 <div data-bbox="934 617 1123 690">LEVER</div> <div data-bbox="1165 617 1354 690">STOPPER</div> 	 <div data-bbox="1522 625 1711 690">LEVER</div> 
LEVER	Metal material	Aluminum alloy	Zinc die-cast
	Mold area	Elastomer	
	COST		
STOPPER	Material	Rubber	
	COST		
TOTAL COST			

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ATTACHMENT Q9C

English REDACTED

Attachment Q9_2

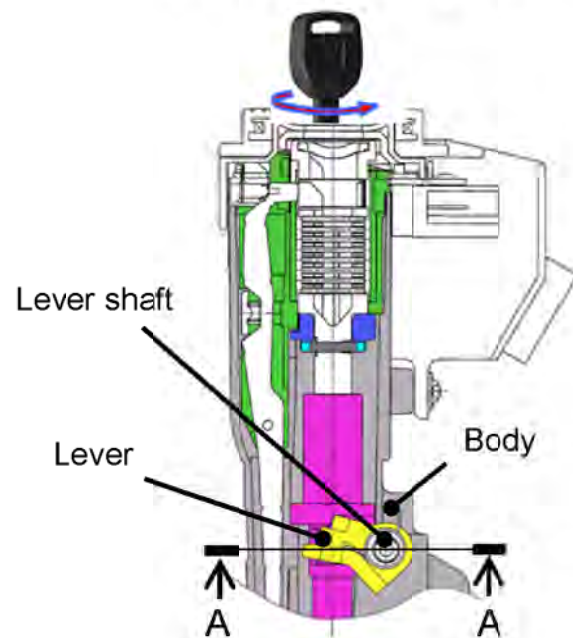
Spec change of lever shaft press
fit height

Details of 03M CIVIC/ELEMENT Production spec change

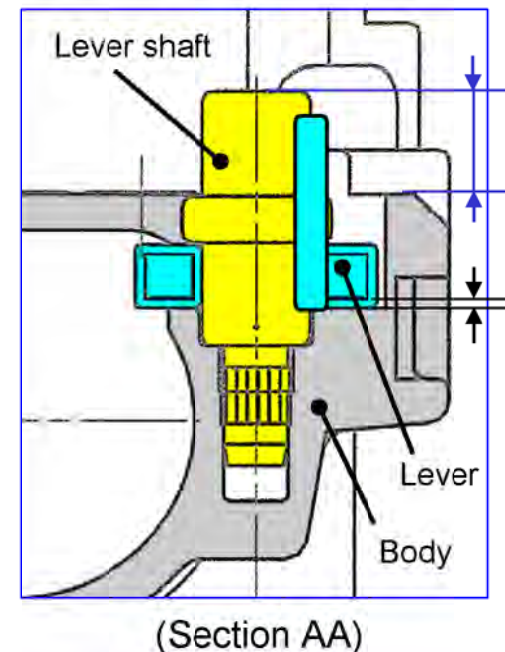
1. Explanation for spec change of lever shaft press fit height

- ◆Purpose: For the design standard value [REDACTED], the production control value was changed from [REDACTED] make the production control easier.
- ◆Change: Production control value of lever shaft press fit height was changed from [REDACTED]
(Gap above and below the lever was made [REDACTED])
- ◆Application timing: Feb 2003 -

Structure of steering lock SW



Spec change of lever shaft press fit height

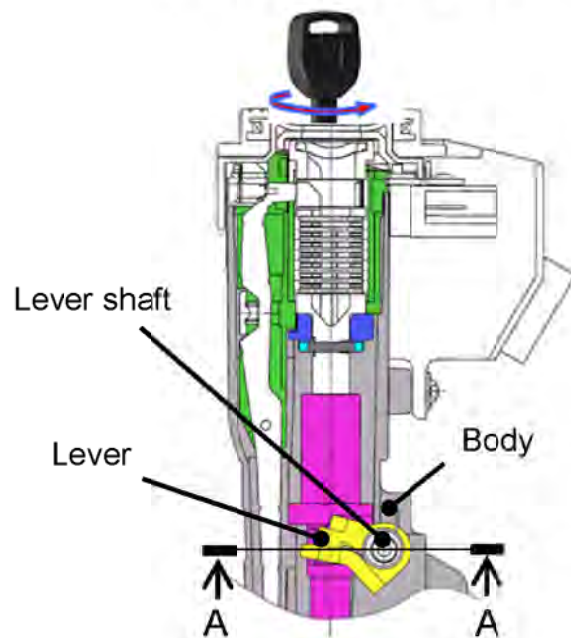


Details of 04M ELEMENT Production spec change

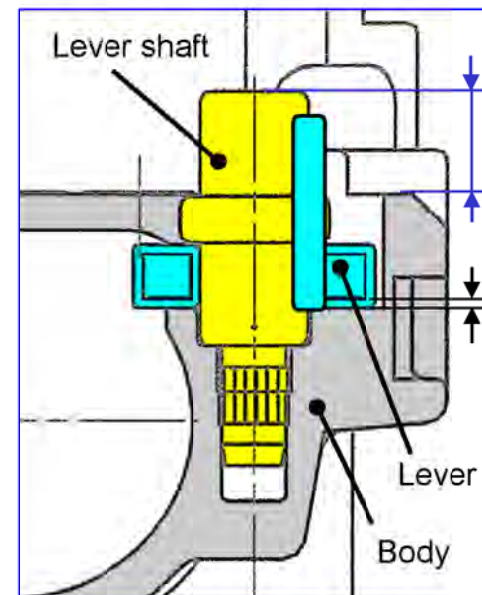
1. Explanation for spec change of lever shaft press fit height

- ◆Purpose: The production control value was changed from [REDACTED] in Feb 2003 to make the production control easier. However, it became possible to control [REDACTED] was changed back to [REDACTED] which is equivalent to before Feb 2003.
- ◆Change: Production control value of lever shaft press fit height was changed from [REDACTED]
(Gap above and below the lever was made [REDACTED])
- ◆Application timing: Jan 2004 -

Structure of steering lock SW



Spec change of lever shaft press fit height



(Section AA)

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ATTACHMENT Q10A

Q10
COMPONENT SALES HISTORY
AS OF 05/27/09

PART DESC	SERVICE PART NO.	MODEL APPLICATION	CALENDAR YEAR				
			2004	2005	2006	2007	2008
Cylinder Set	06350-S84-A12	1998-2002 Accord (4-dr)	25	5	5	6	4
Cylinder Set	06350-SDN-A10	2003 Accord (2-dr)	28	23	0	0	4
Cylinder Set	06350-SDN-A11	2003-04 Accord (2-dr)	20	22	17	14	5
Cylinder Set	06350-SDA-A20	2003 Accord (4-dr)	40	23	28	12	7
Cylinder Set	06350-SDA-A22	2003-05 Accord (4-dr)	59	818	79	63	55
Cylinder Set	06350-SDA-A30	2003 Accord (4-dr)	100	65	36	38	23
Cylinder Set	06350-S5W-A70	2003 Civic (4-dr)	0	0	0	0	1
Cylinder Set	06350-S5W-A72	2004-05 Civic (4-dr)	0	0	0	0	0
Cylinder Set	06350-SCV-A11ZB	2003 Element	25	24	13	26	34
Cylinder Set	06350-SCV-A31ZA	2004-06 Element	7	11	29	17	21
Cylinder Set	06350-SCV-A31ZB	2004-06 Element	3	8	28	19	25
Cylinder Set	06350-SEP-A10	2004-06 TL	38	57	93	85	66

Q10
COMPONENT SALES HISTORY
AS OF 05/27/09

24-MONTH HISTORY												
	A12	A10	A11	A20	A22	A30	A70	A72	A11ZB	A31ZA	A31ZB	SEP-A10
May-07	0	0	0	3	7	0	0	0	5	1	3	9
Jun-07	0	0	2	1	4	8	0	0	1	0	3	8
Jul-07	2	0	0	2	7	4	0	0	0	1	0	5
Aug-07	2	0	1	1	2	4	0	0	1	2	1	9
Sep-07	1	0	0	0	5	1	0	0	3	2	5	14
Oct-07	0	0	1	1	5	2	0	0	5	2	1	9
Nov-07	0	0	0	0	9	4	0	0	3	3	0	6
Dec-07	0	0	1	0	1	7	0	0	2	2	0	3
Jan-08	0	0	1	1	8	0	0	0	3	2	4	6
Feb-08	1	0	0	0	2	2	0	0	4	1	4	4
Mar-08	1	0	2	1	5	2	0	0	4	0	4	8
Apr-08	1	2	0	2	4	4	0	0	2	0	1	7
May-08	0	0	1	1	7	2	0	0	1	4	2	3
Jun-08	1	0	1	2	6	3	0	0	3	1	1	4
Jul-08	0	2	0	0	1	3	1	0	1	2	2	4
Aug-08	0	0	0	0	6	4	0	0	2	2	2	5
Sep-08	0	0	0	0	4	2	0	0	7	3	1	3
Oct-08	0	0	0	0	4	1	0	0	5	2	4	6
Nov-08	0	0	0	0	2	0	0	0	1	2	0	11
Dec-08	0	0	0	0	6	0	0	0	1	2	0	5
Jan-09	0	0	0	0	6	0	0	0	3	4	1	5
Feb-09	0	0	0	0	1	0	0	0	3	3	2	7
Mar-09	0	0	0	0	3	0	0	0	4	3	0	6
Apr-09	0	0	0	0	5	0	0	0	0	1	0	2

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5-29-2009

ATTACHMENT Q10B

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Q10
ASSEMBLY SALES HISTORY
AS OF 05/2/09

PART DESC	SERVICE PART NO.	MODEL APPLICATION	CALENDAR YEAR				
			2004	2005	2006	2007	2008
Steering Lock Assy	35100-SDA-A11	2003 Accord (4-dr)	2	17	34	58	80
Steering Lock Assy	35100-S5A-A81	2003 Civic (2-dr)	60	32	0	1	0
Steering Lock Assy	35100-SEP-A52	2004-06 TL	14	47	63	37	183

24-MONTH HISTORY			
	A11	A81	A52
May-07	7	0	2
Jun-07	9	1	4
Jul-07	5	0	6
Aug-07	7	0	3
Sep-07	6	0	1
Oct-07	7	0	5
Nov-07	2	0	2
Dec-07	2	0	3
Jan-08	6	0	5
Feb-08	2	0	9
Mar-08	6	0	0
Apr-08	8	0	1
May-08	11	0	5
Jun-08	13	0	8
Jul-08	9	0	0
Aug-08	5	0	0
Sep-08	7	0	2
Oct-08	6	0	4
Nov-08	3	0	2
Dec-08	4	0	3
Jan-09	1	0	2
Feb-09	5	4	1
Mar-09	1	6	2
Apr-09	5	2	2

EA09-001

HONDA

5-29-2009

ATTACHMENT Q11

1998 ACCORD English

REDACTED

Honda Motor Co., Ltd. Saitama Office,
Certification & Regulation Compliance
Division

	Approved by	Checked by	Issued by

Issued by Vehicle Certification Dept. Saitama Office,

Title: Request for creation of application for ECE homologation 95/56 EEC Anti theft

Request SN.: C4-05-021

Budget

PIC:

No.	Distributed to	1. Request	2. Purpose	3. Schedule	4. Others																				
		1. Please create system description of the subject parts below (steering lock) and certificate.																							
		<table border="0"> <tr> <td>Part number</td> <td>Part name</td> </tr> <tr> <td>35100-S84-G2-M1</td> <td>LOCK ASSY, STEERING</td> </tr> <tr> <td>35100-S84-E2-M1</td> <td>LOCK ASSY, STEERING</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>				Part number	Part name	35100-S84-G2-M1	LOCK ASSY, STEERING	35100-S84-E2-M1	LOCK ASSY, STEERING														
Part number	Part name																								
35100-S84-G2-M1	LOCK ASSY, STEERING																								
35100-S84-E2-M1	LOCK ASSY, STEERING																								
		2. 98YM S84A / S82A To obtain ECE homologation																							
		3. Please send to the PIC by : 97.6.14																							
		4. Con [REDACTED] Honda Motor Co., Ltd. Vehicle Certification Dept. Saitama Office, Certification & Regulation Compliance Division																							
		TEL: 0429-55-5487 (Dial-in)																							
		FAX: 0429-52-8161																							
Copy	Vehicle Certification on Dept. Saitama Office																								

<div style="border: 1px solid black; padding: 2px; margin-bottom: 10px;"> Recipent Confirmation </div>	Response	<div style="border: 1px solid black; display: inline-block; padding: 5px;">OK</div> <div style="border: 1px solid black; display: inline-block; padding: 5px; margin-left: 10px;">NG</div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">Approved by</th> <th style="width: 25%;">Checked by</th> <th style="width: 25%;">Checked by</th> <th style="width: 25%;">Created by</th> </tr> <tr> <td style="height: 40px;"></td> <td></td> <td></td> <td></td> </tr> </table>	Approved by	Checked by	Checked by	Created by				
Approved by	Checked by	Checked by	Created by								
Response date <u>97 5.15</u>											
Comment	<div style="border-bottom: 1px solid black; padding-bottom: 5px;"> We will promote with the schedule above. </div> <div style="text-align: right; margin-top: 10px;"> 6/13 [Complete] </div> <div style="border-bottom: 1px solid black; height: 20px; margin-top: 10px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-top: 10px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-top: 10px;"></div>										

Route

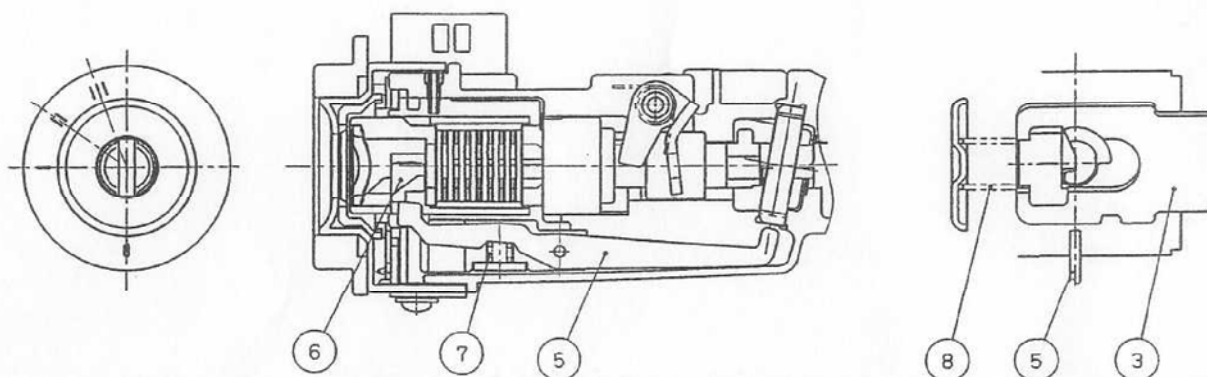
Issue Div / Recipient/ Response/ Return to issue Div.

TECHNICAL DESCRIPTION OF THE DEVICE

LIST THE KEY POSITIONS AVAILABLE IN SEQUENCE

SEQUENCE	FUNCTION POSITION	KEY INSERT/ WITHDRAW	ANTI-THEFT (STEERING LOCK)	ACCESSORY	IGNITION	SELF STARTER (STARTING MOTOR)
1	withdraw	—	locked	off	off	off
2	insert O (LOCK)	possible	locked	off	off	off
3	I (ACC)	impossible	unlocked	on	off	off
4	II (ON)	impossible	unlocked	on	on	off
5	III (START)	impossible	unlocked	off	on	on
6	II (ON)	impossible	unlocked	on	on	off
7	push I (ACC)	impossible	unlocked	on	off	off
8	O (LOCK)	possible	unlocked	off	off	off
9	withdrawn	—	locked	off	off	off

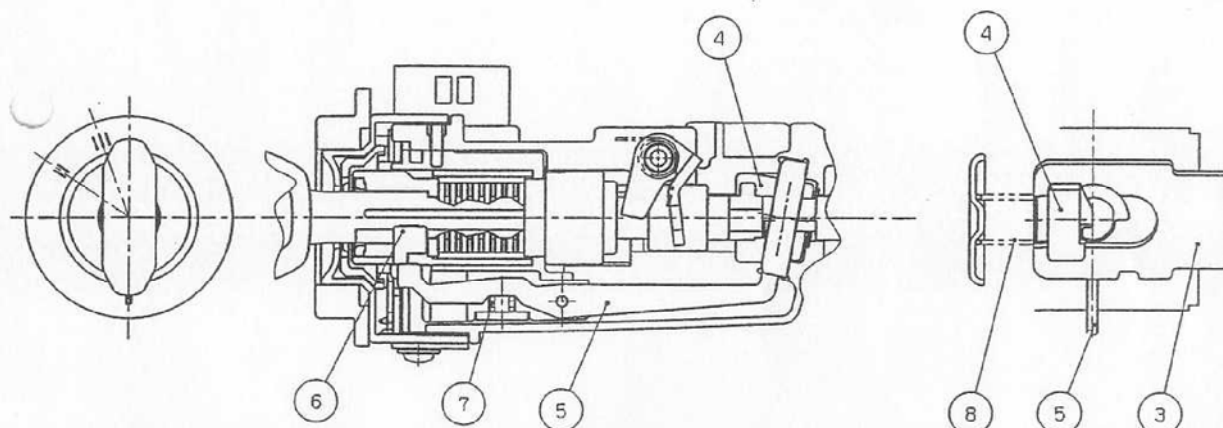
1 Step 1 "0" Position (with key removed)



In this position the spring 8 is expanded and the end of the lock pin 3 engages the recess formed in the steering shaft to prevent the rotation.

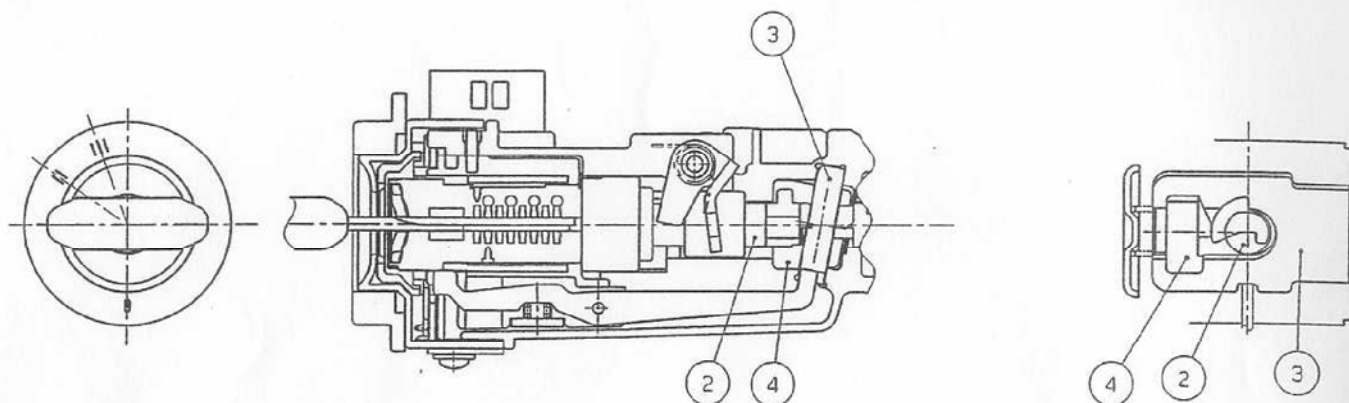
Further the forward end of the stopper plate 5 lifts up the key slider 6 by the force of the spring 7 whereby the key slider 6 enters into the key slot.

2 Step 2 "0" Position (with key inserted)



When the key inserted into the key slot, the back of the key pushes the key slider 6 and away from the key slot whwerby the key slider 6 pushes down the forward end of the stopper plate 5 to compress the spring 7. whereby the backward the end of the stopper plate 5 presses against the lower side of the slider 4.

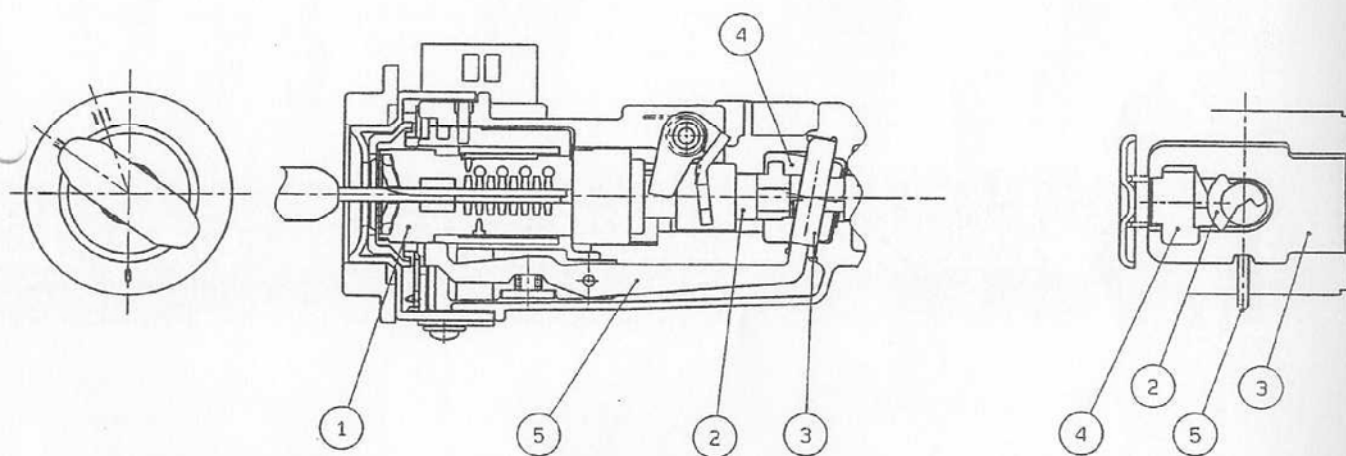
3 Step 3 "I" Position



When the key is turned from "0" to "I", the semicylindrical cam of the joint inner 2 is rotated simultaneously and lifts up the slider 4, and withdraws the lock pin 3 from the steering shaft recess.

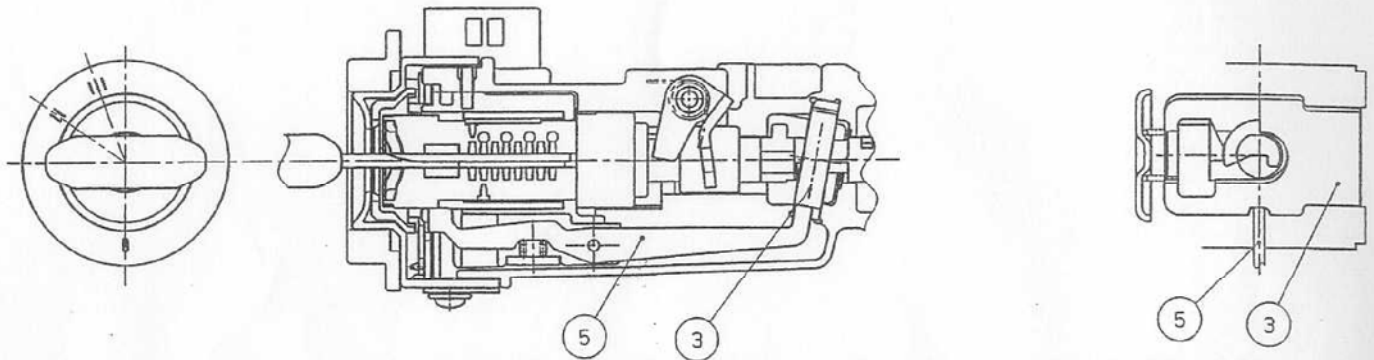
On the other hand the backward end of the stopper plate snaps into the recess of the slider 4 so as to retain the same position until the key is completely withdrawn from the key slot whereby accidental locking of steering can be avoided.

4 Step 4 "II" Position



When the key is turned from "I" to "II" or "III", the stopper plate 5 and the lock pin 3 keep in same position since the forward end of the stopper plate 5 is on the surface of the inner cylinder 1 and the inside wall of the slider 4 is on the semicylindrical cam of the joint inner 2.

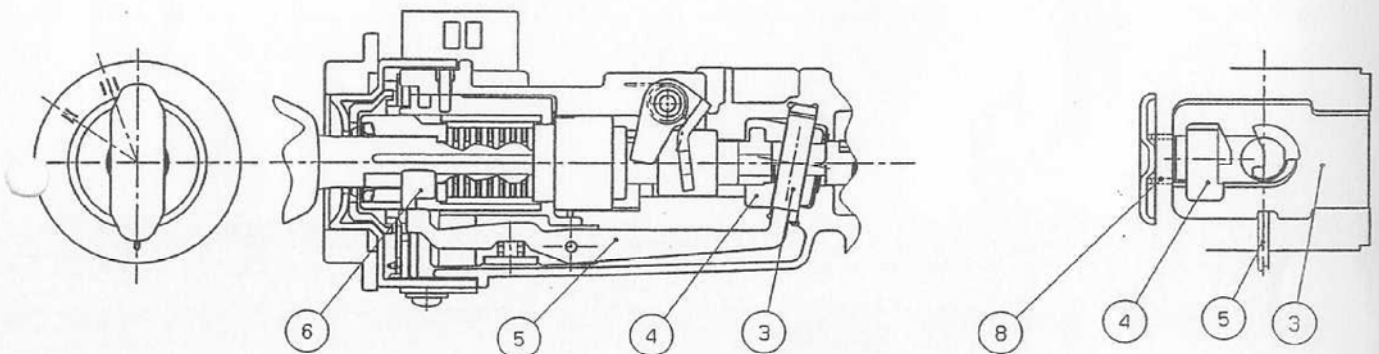
5 Step 5 "I" Position



When the key is turned counterclockwise direction from "II" to "I", the stopper plate 5 and lock pin 3 keep in the same condition.

But the key should be pushed at the "I" position so as to turn back from "I" to "0".

6 Step 6 "0" Position (with key insert)



When the key is turned to "0" after pushing at the "I" position, the slider 4 is free from the inner joint cam.

But slider 4 remains in its position since the backward end of the stopper plate 5 engages the lower side recess of the slider 4 only upon almost complete withdrawal of the key is it made possible for the key slider 6 to enter into the key slot and the stopper plate 5 swings clockwise direction, whereupon the backward end of the stopper plate 5 frees the slider 4 and thereby the lock pin 3.

As a result of it, the lock pin 3 moves down by the force of the spring 8 and engages the steering shaft recess.

ECE NO. 18 (01) AND 95/56 / EEC
CERTIFICATION OF STEERING LOCK GENERAL SPECIFICATIONS

Vehicle Make : HONDA

I certify herewith that the steering locks below mentioned possess more than 1,000 Key combinations and are satisfactorily in line with paragraph 5.6 in EEC regulation No.18 amend. 01 as follows;

5.6 The key locking system shall provide at least 1,000 different key combinations or a number equal to the total number of vehicles manufactured annually if less than 1,000. In vehicles of one type the frequency of occurrence of each combination shall be roughly one per 1,000.

Steering Lock Manufacturer : HONDA LOCK MFG. CO., LTD.

Steering Lock Model No. : S84 (Side-Cutting Code Key)

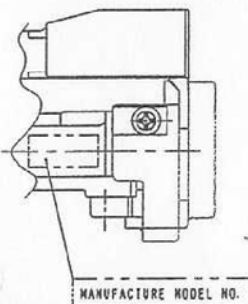
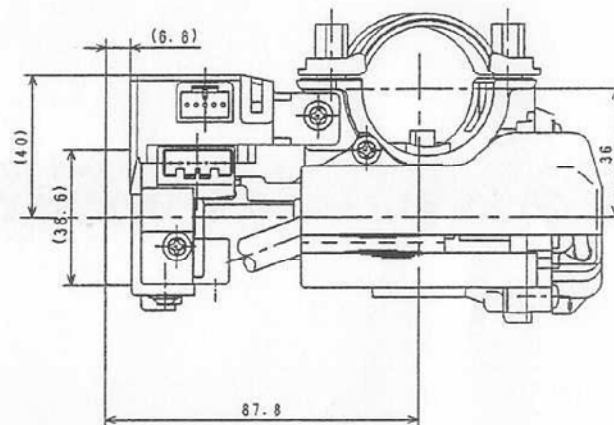
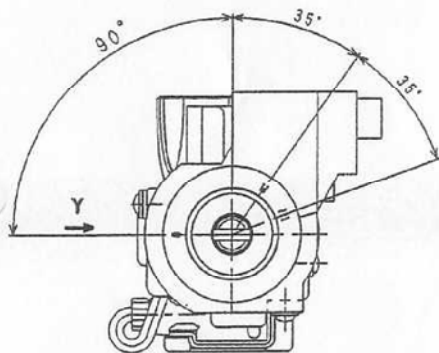
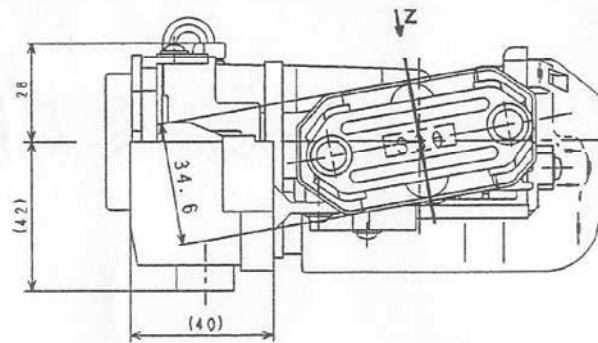
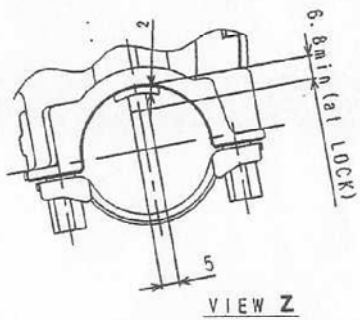
Signed :

Name :

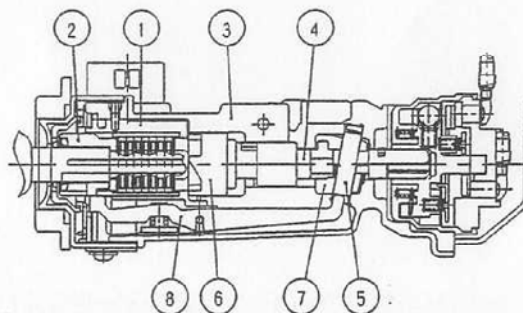
Title : Chief Engineer

Date : 14.JUN. '97

For and on behalf of HONDA LOCK MFG. CO., LTD.



VIEW Y



STRUCTURE DRAWING

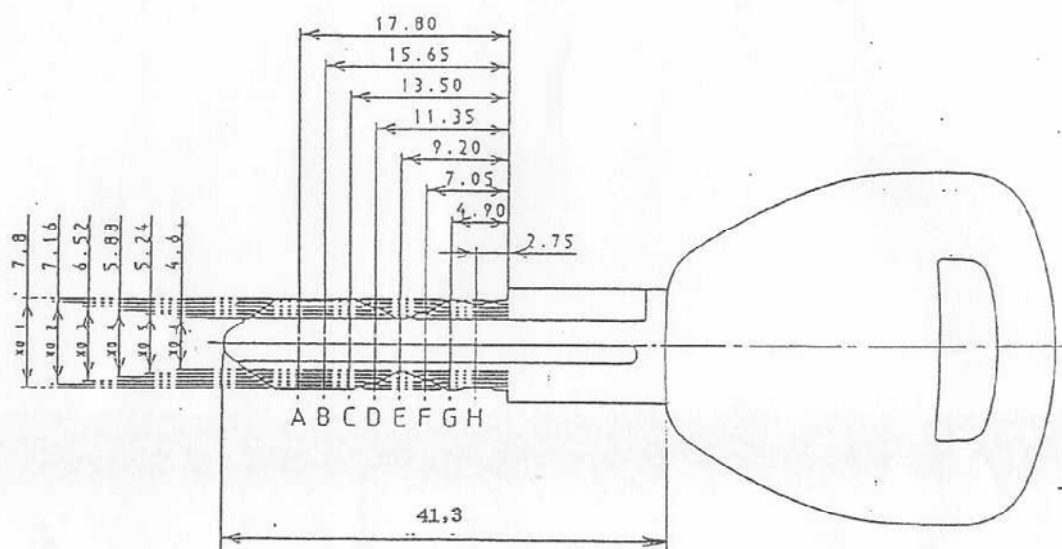
No.	NAME	QTY	MATERIAL
1	CYLINDER	1	Zn ALLOY
2	INNER	1	Zn ALLOY
3	BODY	1	Zn ALLOY
4	JOINT INNER	1	Zn ALLOY
5	LOCK PIN	1	SC
6	BODY COVER	1	SP
7	SLIDER	1	Zn ALLOY
8	STOPPER PLATE	1	SP

	TITLE	VEHICLE TYPE	
	STEERING LOCK CONSTRUCTION		No.
ISS. DATE			

HONDA LOCK
JAPAN
889

(1) Interpretation

Example: Interpretation of Code No.5126 Cutting 11136412.



Widths of a key without and between cuts have six dimensions;

- 1; Width without cuts that measures 7.8mm
- 2; Width between cuts that measures 7.16mm
- 3; Width between cuts that measures 6.52mm
- 4; Width between cuts that measures 5.88mm
- 5; Width between cuts that measures 5.24mm
- 6; Width between cuts that measures 4.6mm

Therefore, as cuts become deeper, Cutting No. will be larger.

Cutting 11136412 will be read from the Position A to Position H in Fig.1 in this order, where the first digit represents the width at Position A in Fig.1 (width without cuts in this case) and the fourth digit of cutting No.3, for instance, represents the width between cuts at Position D in Fig.1 (6.52mm)

(2) 3442 Different Keys

This Key covers 3442 different combinations from Code No. 5001 to Code No.8442

CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING
5001	11112236	5051	11116466	5101	11133646	5151	11151444
5002	11112252	5052	11116623	5102	11133651	5152	11151446
5003	11112254	5053	11116625	5103	11133653	5153	11151462
5004	11112256	5054	11116642	5104	11133665	5154	11151464
5005	11112425	5055	11116645	5105	11134214	5155	11151466
5006	11112522	5056	11122214	5106	11134216	5156	11151622
5007	11112542	5057	11122216	5107	11134366	5157	11151624
5008	11112544	5058	11125221	5108	11135136	5158	11151626
5009	11112546	5059	11125666	5109	11135142	5159	11151642
5010	11112562	5060	11126621	5110	11135144	5160	11151644
5011	11112564	5061	11126661	5111	11135156	5161	11151646
5012	11112566	5062	11126663	5112	11135162	5162	11151662
5013	11112624	5063	11131236	5113	11135164	5163	11151664
5014	11112626	5064	11131252	5114	11135336	5164	11151666
5015	11114223	5065	11131254	5115	11135361	5165	11153124
5016	11114225	5066	11131256	5116	11135363	5166	11153136
5017	11114242	5067	11131422	5117	11135414	5167	11153142
5018	11114244	5068	11131424	5118	11135416	5168	11153144
5019	11114246	5069	11131426	5119	11135536	5169	11153156
5020	11114262	5070	11131442	5120	11135614	5170	11153162
5021	11114264	5071	11131444	5121	11136123	5171	11153164
5022	11114266	5072	11131446	5122	11136215	5172	11153314
5023	11114423	5073	11131462	5123	11136334	5173	11153336
5024	11114425	5074	11131464	5124	11136341	5174	11153351
5025	11114452	5075	11131466	5125	11136355	5175	11153353
5026	11114454	5076	11131622	5126	11136412	5176	11153355
5027	11114456	5077	11131624	5127	11136533	5177	11153416
5028	11114622	5078	11131626	5128	11136541	5178	11153512
5029	11114624	5079	11131642	5129	11141222	5179	11153514
5030	11114626	5080	11131644	5130	11141224	5180	11153531
5031	11114642	5081	11131646	5131	11142216	5181	11153533
5032	11114644	5082	11131662	5132	11143122	5182	11153535
5033	11114646	5083	11131664	5133	11143312	5183	11153551
5034	11114662	5084	11131666	5134	11143331	5184	11153553
5035	11114664	5085	11133136	5135	11143334	5185	11153556
5036	11116223	5086	11133142	5136	11145221	5186	11154216
5037	11116225	5087	11133144	5137	11145553	5187	11155123
5038	11116242	5088	11133156	5138	11145556	5188	11155135
5039	11116244	5089	11133162	5139	11145561	5189	11155142
5040	11116246	5090	11133164	5140	11145612	5190	11155154
5041	11116262	5091	11133361	5141	11151236	5191	11155156
5042	11116264	5092	11133364	5142	11151242	5192	11155162
5043	11116266	5093	11133414	5143	11151244	5193	11155313
5044	11116422	5094	11133416	5144	11151256	5194	11155334
5045	11116424	5095	11133436	5145	11151262	5195	11155336
5046	11116426	5096	11133612	5146	11151264	5196	11155341
5047	11116442	5097	11133614	5147	11151422	5197	11155353
5048	11116445	5098	11133626	5148	11151424	5198	11155356
5049	11116462	5099	11133631	5149	11151426	5199	11155361
5050	11116464	5100	11133634	5150	11151442	5200	11155415

	REVISION RECORD	DATE	NAME
NAME			

CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING
5201	11155421	5251	11313364	5301	11331316	5351	11336112
5202	11155534	5252	11313366	5302	11331361	5352	11336311
5203	11155536	5253	11313436	5303	11331364	5353	11336341
5204	11155541	5254	11313514	5304	11331366	5354	11336344
5205	11155614	5255	11313516	5305	11331412	5355	11336346
5206	11156215	5256	11313612	5306	11331431	5356	11336361
5207	11162122	5257	11313631	5307	11331434	5357	11336364
5208	11163312	5258	11313634	5308	11331436	5358	11336366
5209	11163331	5259	11313636	5309	11331514	5359	11336511
5210	11163334	5260	11313651	5310	11331516	5360	11336531
5211	11165221	5261	11313653	5311	11331551	5361	11336534
5212	11165553	5262	11313655	5312	11331553	5362	11336551
5213	11165556	5263	11314122	5313	11331555	5363	11336553
5214	11165621	5264	11314334	5314	11331621	5364	11336555
5215	11214421	5265	11314341	5315	11331634	5365	11343666
5216	11261124	5266	11315124	5316	11331636	5366	11351136
5217	11262116	5267	11315126	5317	11333114	5367	11351142
5218	11265561	5268	11315142	5318	11333116	5368	11351144
5219	11311225	5269	11315144	5319	11333141	5369	11351156
5220	11311252	5270	11315146	5320	11333144	5370	11351162
5221	11311254	5271	11315162	5321	11333146	5371	11351164
5222	11311256	5272	11315164	5322	11333162	5372	11351314
5223	11311422	5273	11315166	5323	11333164	5373	11351316
5224	11311424	5274	11315313	5324	11333166	5374	11351336
5225	11311426	5275	11315315	5325	11333414	5375	11351361
5226	11311442	5276	11315336	5326	11333416	5376	11351363
5227	11311444	5277	11315353	5327	11333611	5377	11351365
5228	11311446	5278	11315355	5328	11333614	5378	11351412
5229	11311462	5279	11315361	5329	11333626	5379	11351431
5230	11311464	5280	11315513	5330	11333641	5380	11351433
5231	11311466	5281	11315515	5331	11333644	5381	11351514
5232	11311622	5282	11315533	5332	11333646	5382	11351516
5233	11311624	5283	11315535	5333	11333661	5383	11351535
5234	11311626	5284	11315541	5334	11333664	5384	11351551
5235	11311642	5285	11315553	5335	11334361	5385	11351553
5236	11311644	5286	11315556	5336	11334364	5386	11351556
5237	11311646	5287	11315561	5337	11334366	5387	11351621
5238	11311662	5288	11315621	5338	11334436	5388	11351633
5239	11311664	5289	11316221	5339	11335114	5389	11353114
5240	11311666	5290	11316334	5340	11335116	5390	11353136
5241	11313125	5291	11316341	5341	11335136	5391	11353141
5242	11313142	5292	11316421	5342	11335141	5392	11353143
5243	11313144	5293	11331125	5343	11335143	5393	11353155
5244	11313146	5294	11331142	5344	11335155	5394	11353162
5245	11313162	5295	11331144	5345	11335162	5395	11353314
5246	11313164	5296	11331146	5346	11335314	5396	11353316
5247	11313166	5297	11331162	5347	11335316	5397	11353361
5248	11313314	5298	11331164	5348	11335514	5398	11353364
5249	11313316	5299	11331166	5349	11335516	5399	11353366
5250	11313361	5300	11331314	5350	11335636	5400	11353436

REVISION RECORD	DATE	NAME
NAME		

CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING
5401	11353514	5451	11511224	5501	11513553	5551	11531533
5402	11353516	5452	11511226	5502	11513556	5552	11531535
5403	11353611	5453	11511242	5503	11515122	5553	11531551
5404	11353631	5454	11511244	5504	11515124	5554	11531553
5405	11353634	5455	11511246	5505	11515126	5555	11531556
5406	11353636	5456	11511262	5506	11515142	5556	11533114
5407	11353651	5457	11511264	5507	11515144	5557	11533116
5408	11353653	5458	11511266	5508	11515146	5558	11533131
5409	11354116	5459	11511422	5509	11515162	5559	11533134
5410	11355114	5460	11511424	5510	11515164	5560	11533136
5411	11355136	5461	11511426	5511	11515166	5561	11533151
5412	11355141	5462	11511442	5512	11515312	5562	11533153
5413	11355143	5463	11511444	5513	11515314	5563	11533155
5414	11355156	5464	11511446	5514	11515316	5564	11533314
5415	11355162	5465	11511462	5515	11515331	5565	11533316
5416	11355164	5466	11511464	5516	11515333	5566	11533346
5417	11355314	5467	11511466	5517	11515335	5567	11533361
5418	11355316	5468	11511622	5518	11515351	5568	11533364
5419	11355336	5469	11511624	5519	11515353	5569	11533366
5420	11355361	5470	11511626	5520	11515356	5570	11533511
5421	11355363	5471	11511642	5521	11515512	5571	11533513
5422	11355365	5472	11511644	5522	11515514	5572	11533515
5423	11355514	5473	11511646	5523	11515516	5573	11533531
5424	11355516	5474	11511662	5524	11515531	5574	11533534
5425	11355536	5475	11511664	5525	11515533	5575	11533536
5426	11361122	5476	11511666	5526	11515536	5576	11533551
5427	11363112	5477	11513122	5527	11515561	5577	11533553
5428	11363311	5478	11513124	5528	11515563	5578	11533556
5429	11363341	5479	11513126	5529	11515566	5579	11535112
5430	11363344	5480	11513142	5530	11531124	5580	11535114
5431	11363555	5481	11513144	5531	11531126	5581	11535116
5432	11365112	5482	11513146	5532	11531142	5582	11535131
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5435	11365334	5485	11513166	5535	11531162	5585	11535151
5436	11365511	5486	11513314	5536	11531164	5586	11535153
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5441	11411222	5491	11513351	5541	11531331	5591	11535331
5442	11413312	5492	11513353	5542	11531334	5592	11535334
5443	11431122	5493	11513355	5543	11531336	5593	11535336
5444	11433112	5494	11513512	5544	11531351	5594	11535351
5445	11433311	5495	11513514	5545	11531353	5595	11535353
5446	11433341	5496	11513516	5546	11531355	5596	11535356
5447	11433344	5497	11513531	5547	11531512	5597	11535511
5448	11451124	5498	11513533	5548	11531514	5598	11535513
5449	11452116	5499	11513535	5549	11531516	5599	11535516
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5604	11535563	5654	11553561	5704	13111622	5754	13115514
5605	11535566	5655	11553563	5705	13111624	5755	13115516
5606	11551122	5656	11553566	5706	13111626	5756	13115531
5607	11551136	5657	11554116	5707	13111642	5757	13115533
5608	11551142	5658	11555112	5708	13111644	5758	13115535
5609	11551144	5659	11555114	5709	13111646	5759	13115551
5610	11551156	5660	11555131	5710	13111662	5760	13115553
5611	11551162	5661	11555133	5711	13111664	5761	13115556
5612	11551164	5662	11555136	5712	13111666	5762	13116212
5613	11551312	5663	11555162	5713	13113125	5763	13116331
5614	11551314	5664	11555164	5714	13113142	5764	13116334
5615	11551316	5665	11555166	5715	13113144	5765	13131125
5616	11551331	5666	11555311	5716	13113146	5766	13131142
5617	11551333	5667	11555313	5717	13113162	5767	13131144
5618	11551335	5668	11555316	5718	13113164	5768	13131146
5619	11551351	5669	11555331	5719	13113166	5769	13131162
5620	11551353	5670	11555334	5720	13113314	5770	13131164
5621	11551356	5671	11555336	5721	13113316	5771	13131166
5622	11551512	5672	11555361	5722	13113361	5772	13131314
5623	11551514	5673	11555363	5723	13113364	5773	13131316
5624	11551516	5674	11555366	5724	13113366	5774	13131361
5625	11551531	5675	11555611	5725	13113436	5775	13131364
5626	11551533	5676	11555613	5726	13113514	5776	13131366
5627	11551536	5677	11555626	5727	13113516	5777	13131412
5628	11551561	5678	11555631	5728	13113612	5778	13131431
5629	11551563	5679	11555633	5729	13113631	5779	13131434
5630	11551566	5680	11555646	5730	13113634	5780	13131436
5631	11553112	5681	11555663	5731	13113636	5781	13131514
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5633	11553131	5683	11621122	5733	13113653	5783	13131551
5634	11553133	5684	11623311	5734	13113655	5784	13131553
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5636	11553151	5686	11633341	5736	13114312	5786	13131621
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5638	11553156	5688	11651124	5738	13114334	5788	13131636
5639	11553311	5689	11655651	5739	13115124	5789	13133114
5640	11553313	5690	12651116	5740	13115126	5790	13133116
5641	11553315	5691	13111225	5741	13115142	5791	13133141
5642	11553331	5692	13111252	5742	13115144	5792	13133144
5643	11553334	5693	13111254	5743	13115146	5793	13133146
5644	11553336	5694	13111256	5744	13115162	5794	13133162
5645	11553351	5695	13111422	5745	13115164	5795	13133164
5646	11553353	5696	13111424	5746	13115166	5796	13133166
5647	11553356	5697	13111426	5747	13115314	5797	13133414
5648	11553511	5698	13111442	5748	13115316	5798	13133416
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5804	13133646	5854	13151331	5904	13155331	5954	13313166
5805	13133661	5855	13151334	5905	13155334	5955	13313414
5806	13133664	5856	13151336	5906	13155336	5956	13313416
5807	13133666	5857	13151351	5907	13155351	5957	13313611
5808	13134361	5858	13151353	5908	13155353	5958	13313614
5809	13134364	5859	13151355	5909	13155356	5959	13313626
5810	13134366	5860	13151512	5910	13155511	5960	13313641
5811	13134436	5861	13151514	5911	13155513	5961	13313644
5812	13135114	5862	13151516	5912	13155516	5962	13313646
5813	13135116	5863	13151531	5913	13155531	5963	13313661
5814	13135136	5864	13151533	5914	13155533	5964	13313664
5815	13135141	5865	13151535	5915	13155536	5965	13313666
5816	13135143	5866	13151551	5916	13155561	5966	13314112
5817	13135155	5867	13151553	5917	13155563	5967	13314311
5818	13135162	5868	13151556	5918	13155566	5968	13314341
5819	13135314	5869	13153114	5919	13162112	5969	13314344
5820	13135316	5870	13153116	5920	13163311	5970	13314346
5821	13135514	5871	13153131	5921	13163341	5971	13314361
5822	13135516	5872	13153134	5922	13163344	5972	13314364
5823	13135636	5873	13153136	5923	13311125	5973	13314366
5824	13136112	5874	13153151	5924	13311142	5974	13315114
5825	13136311	5875	13153153	5925	13311144	5975	13315116
5826	13136341	5876	13153155	5926	13311146	5976	13315131
5827	13136344	5877	13153314	5927	13311162	5977	13315134
5828	13136346	5878	13153316	5928	13311164	5978	13315136
5829	13136361	5879	13153346	5929	13311166	5979	13315151
5830	13136364	5880	13153361	5930	13311314	5980	13315153
5831	13136366	5881	13153364	5931	13311316	5981	13315155
5832	13136511	5882	13153366	5932	13311361	5982	13315314
5833	13136531	5883	13153511	5933	13311364	5983	13315316
5834	13136534	5884	13153513	5934	13311366	5984	13315511
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5837	13136555	5887	13153534	5937	13311434	5987	13315531
5838	13141122	5888	13153536	5938	13311436	5988	13315534
5839	13143112	5889	13153551	5939	13311514	5989	13315536
5840	13143311	5890	13153553	5940	13311516	5990	13315551
5841	13143341	5891	13153556	5941	13311551	5991	13315553
5842	13143344	5892	13155112	5942	13311553	5992	13315556
5843	13151124	5893	13155114	5943	13311555	5993	13316211
5844	13151126	5894	13155116	5944	13311621	5994	13316341
5845	13151142	5895	13155131	5945	13311634	5995	13316344
5846	13151144	5896	13155133	5946	13311636	5996	13316346
5847	13151146	5897	13155135	5947	13313114	5997	13316362
5848	13151162	5898	13155151	5948	13313116	5998	13316364
5849	13151164	5899	13155153	5949	13313141	5999	13316366
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6003	13331144	6053	13336461	6103	13353146	6153	13511125
6004	13331146	6054	13336464	6104	13353102	6154	13511142
6005	13331162	6055	13336466	6105	13353104	6155	13511144
6006	13331164	6056	13336611	6106	13353166	6156	13511146
6007	13331166	6057	13336614	6107	13353414	6157	13511162
6008	13331411	6058	13336626	6108	13353416	6158	13511164
6009	13331414	6059	13336641	6109	13353614	6159	13511166
6010	13331416	6060	13336644	6110	13353626	6160	13511314
6011	13331441	6061	13336646	6111	13355114	6161	13511316
6012	13331444	6062	13336661	6112	13355116	6162	13511336
6013	13331446	6063	13336664	6113	13355136	6163	13511361
6014	13331461	6064	13343611	6114	13355141	6164	13511363
6015	13331464	6065	13343641	6115	13355143	6165	13511365
6016	13331466	6066	13343644	6116	13355156	6166	13511412
6017	13331621	6067	13343646	6117	13355162	6167	13511431
6018	13331624	6068	13343661	6118	13355164	6168	13511433
6019	13331626	6069	13343664	6119	13355314	6169	13511514
6020	13331641	6070	13343666	6120	13355316	6170	13511516
6021	13331644	6071	13344361	6121	13355514	6171	13511535
6022	13331646	6072	13344364	6122	13355516	6172	13511551
6023	13331662	6073	13344366	6123	13355636	6173	13511553
6024	13331664	6074	13344436	6124	13356361	6174	13511556
6025	13331666	6075	13351114	6125	13356364	6175	13511621
6026	13334114	6076	13351116	6126	13356366	6176	13511633
6027	13334116	6077	13351136	6127	13356436	6177	13513114
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6029	13334144	6079	13351143	6129	13363111	6179	13513136
6030	13334146	6080	13351155	6130	13363411	6180	13513141
6031	13334162	6081	13351162	6131	13363441	6181	13513143
6032	13334164	6082	13351314	6132	13363444	6182	13513155
6033	13334166	6083	13351316	6133	13363446	6183	13513162
6034	13334414	6084	13351361	6134	13363461	6184	13513314
6035	13334416	6085	13351364	6135	13363464	6185	13513316
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6037	13334626	6087	13351411	6137	13363611	6187	13513364
6038	13336111	6088	13351431	6138	13363641	6188	13513366
6039	13336114	6089	13351434	6139	13363644	6189	13513436
6040	13336126	6090	13351436	6140	13363646	6190	13513514
6041	13336141	6091	13351513	6141	13363661	6191	13513516
6042	13336144	6092	13351515	6142	13363664	6192	13513611
6043	13336146	6093	13351551	6143	13365111	6193	13513631
6044	13336261	6094	13351553	6144	13365311	6194	13513634
6045	13336264	6095	13351556	6145	13365341	6195	13513636
6046	13336266	6096	13351621	6146	13365344	6196	13513651
6047	13336411	6097	13351634	6147	13365511	6197	13513653
6048	13336414	6098	13351636	6148	13365531	6198	13513655
6049	13336416	6099	13353114	6149	13365534	6199	13514112
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6204	13515116	6254	13533116	6304	13551136	6354	13555141
6205	13515131	6255	13533141	6305	13551141	6355	13555143
6206	13515133	6256	13533144	6306	13551143	6356	13555162
6207	13515135	6257	13533146	6307	13551156	6357	13555164
6208	13515151	6258	13533162	6308	13551162	6358	13555166
6209	13515153	6259	13533164	6309	13551164	6359	13555314
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6211	13515313	6261	13533414	6311	13551316	6361	13555336
6212	13515315	6262	13533416	6312	13551336	6362	13555361
6213	13515336	6263	13533611	6313	13551361	6363	13555363
6214	13515351	6264	13533614	6314	13551363	6364	13555366
6215	13515353	6265	13533626	6315	13551365	6365	13555614
6216	13515356	6266	13533641	6316	13551411	6366	13555626
6217	13515511	6267	13533644	6317	13551431	6367	13611122
6218	13515513	6268	13533646	6318	13551433	6368	13631112
6219	13515516	6269	13533661	6319	13551513	6369	13633111
6220	13515531	6270	13533664	6320	13551516	6370	13633411
6221	13515533	6271	13533666	6321	13551536	6371	13633441
6222	13515536	6272	13534361	6322	13551561	6372	13633444
6223	13515561	6273	13534364	6323	13551563	6373	13651112
6224	13515563	6274	13534366	6324	13551566	6374	13653111
6225	13515566	6275	13534436	6325	13551621	6375	13653311
6226	13516211	6276	13535114	6326	13551633	6376	13653341
6227	13516331	6277	13535116	6327	13551641	6377	13653344
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6229	13531114	6279	13535141	6329	13553116	6379	13655311
6230	13531116	6280	13535143	6330	13553136	6380	13655331
6231	13531136	6281	13535156	6331	13553141	6381	13655334
6232	13531141	6282	13535162	6332	13553143	6382	13655511
6233	13531143	6283	13535164	6333	13553156	6383	13655521
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6235	13531162	6285	13535316	6335	13553164	6385	13655546
6236	13531314	6286	13535514	6336	13553314	6386	13655561
6237	13531316	6287	13535516	6337	13553316	6387	13655563
6238	13531361	6288	13535636	6338	13553361	6388	13655566
6239	13531364	6289	13536111	6339	13553364	6389	14111222
6240	13531366	6290	13536311	6340	13553366	6390	14311122
6241	13531411	6291	13536341	6341	13553436	6391	14331112
6242	13531431	6292	13536344	6342	13553514	6392	14333111
6243	13531434	6293	13536346	6343	13553516	6393	14333411
6244	13531436	6294	13536361	6344	13553611	6394	14333441
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6246	13531515	6296	13536366	6346	13553634	6396	14551116
6247	13531551	6297	13536511	6347	13553636	6397	15111224
6248	13531553	6298	13536531	6348	13553651	6398	15111226
6249	13531556	6299	13536534	6349	13553653	6399	15111242
6250	13531621	6300	13536551	6350	13553656	6400	15111244

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6404	15111266	6454	15115144	6504	15133112	6554	15135536
6405	15111422	6455	15115146	6505	15133114	6555	15135561
6406	15111424	6456	15115162	6506	15133116	6556	15135563
6407	15111426	6457	15115164	6507	15133131	6557	15135566
6408	15111442	6458	15115166	6508	15133134	6558	15151122
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6415	15111624	6465	15115351	6515	15133316	6565	15151164
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6422	15111666	6472	15115533	6522	15133511	6572	15151335
6423	15113122	6473	15115536	6523	15133513	6573	15151351
6424	15113124	6474	15115561	6524	15133515	6574	15151353
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6426	15113142	6476	15115566	6526	15133534	6576	15151512
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6428	15113146	6478	15131124	6528	15133551	6578	15151516
6429	15113162	6479	15131126	6529	15133553	6579	15151531
6430	15113164	6480	15131142	6530	15133556	6580	15151533
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6604	15153513	6654	15311353	6704	15315331	6754	15333416
6605	15153516	6655	15311355	6705	15315334	6755	15333444
6606	15153531	6656	15311512	6706	15315336	6756	15333446
6607	15153533	6657	15311514	6707	15315351	6757	15333461
6608	15153536	6658	15311516	6708	15315353	6758	15333464
6609	15153561	6659	15311531	6709	15315356	6759	15333466
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6611	15153566	6661	15311535	6711	15315513	6761	15333614
6612	15155112	6662	15311551	6712	15315516	6762	15333626
6613	15155114	6663	15311553	6713	15315531	6763	15333641
6614	15155116	6664	15311556	6714	15315533	6764	15333644
6615	15155131	6665	15313112	6715	15315536	6765	15333646
6616	15155133	6666	15313114	6716	15315561	6766	15333661
6617	15155136	6667	15313116	6717	15315563	6767	15333664
6618	15155162	6668	15313131	6718	15315566	6768	15333666
6619	15155164	6669	15313134	6719	15331114	6769	15335111
6620	15155166	6670	15313136	6720	15331116	6770	15335113
6621	15155311	6671	15313151	6721	15331131	6771	15335115
6622	15155313	6672	15313153	6722	15331134	6772	15335131
6623	15155316	6673	15313155	6723	15331136	6773	15335134
6624	15155331	6674	15313311	6724	15331151	6774	15335136
6625	15155333	6675	15313314	6725	15331153	6775	15335151
6626	15155336	6676	15313316	6726	15331155	6776	15335153
6627	15155361	6677	15313341	6727	15331311	6777	15335156
6628	15155363	6678	15313344	6728	15331314	6778	15335311
6629	15155366	6679	15313346	6729	15331316	6779	15335314
6630	15155611	6680	15313361	6730	15331341	6780	15335316
6631	15155613	6681	15313364	6731	15331344	6781	15335341
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6634	15155633	6684	15313513	6734	15331364	6784	15335361
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6644	15311162	6694	15315116	6744	15331556	6794	15335563
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6648	15311314	6698	15315151	6748	15333144	6798	15351131
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6804	15351311	6854	15355136	6904	15513114	6954	15515661
6805	15351313	6855	15355162	6905	15513116	6955	15515663
6806	15351315	6856	15355164	6906	15513131	6956	15515666
6807	15351331	6857	15355166	6907	15513133	6957	15531112
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6809	15351336	6859	15355313	6909	15513151	6959	15531116
6810	15351351	6860	15355316	6910	15513153	6960	15531131
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6813	15351511	6863	15355336	6913	15513313	6963	15531151
6814	15351513	6864	15355361	6914	15513315	6964	15531153
6815	15351516	6865	15355363	6915	15513331	6965	15531156
6816	15351531	6866	15355366	6916	15513334	6966	15531311
6817	15351533	6867	15355611	6917	15513336	6967	15531313
6818	15351536	6868	15355613	6918	15513351	6968	15531315
6819	15351561	6869	15355626	6919	15513353	6969	15531331
6820	15351563	6870	15355631	6920	15513356	6970	15531334
6821	15351566	6871	15355633	6921	15513511	6971	15531336
6822	15353111	6872	15355646	6922	15513513	6972	15531351
6823	15353113	6873	15355661	6923	15513516	6973	15531353
6824	15353115	6874	15355663	6924	15513531	6974	15531356
6825	15353131	6875	15355666	6925	15513533	6975	15531511
6826	15353134	6876	15511122	6926	15513536	6976	15531513
6827	15353136	6877	15511124	6927	15513561	6977	15531516
6828	15353151	6878	15511126	6928	15513563	6978	15531531
6829	15353153	6879	15511142	6929	15513566	6979	15531533
6830	15353156	6880	15511144	6930	15515112	6980	15531536
6831	15353311	6881	15511146	6931	15515114	6981	15531561
6832	15353314	6882	15511162	6932	15515116	6982	15531563
6833	15353316	6883	15511164	6933	15515131	6983	15531566
6834	15353341	6884	15511166	6934	15515133	6984	15533111
6835	15353344	6885	15511312	6935	15515136	6985	15533113
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6838	15353364	6888	15511331	6938	15515166	6988	15533134
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6840	15353511	6890	15511335	6940	15515313	6990	15533151
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6842	15353516	6892	15511353	6942	15515331	6992	15533156
6843	15353531	6893	15511356	6943	15515333	6993	15533311
6844	15353534	6894	15511512	6944	15515336	6994	15533314
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6848	15353566	6898	15511533	6948	15515611	6998	15533346
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7003	15533513	7053	15551363	7103	15556331	7153	33113366
7004	15533516	7054	15551366	7104	15556333	7154	33113436
7005	15533531	7055	15551621	7105	15556336	7155	33113514
7006	15533534	7056	15551623	7106	15556461	7156	33113516
7007	15533536	7057	15551626	7107	15556463	7157	33113612
7008	15533561	7058	15551641	7108	15556466	7158	33113631
7009	15533563	7059	15551643	7109	15556611	7159	33113634
7010	15533566	7060	15551646	7110	15556613	7160	33113636
7011	15535111	7061	15551662	7111	15556626	7161	33113651
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7013	15535116	7063	15551666	7113	15556633	7163	33114122
7014	15535131	7064	15553111	7114	15556646	7164	33114312
7015	15535133	7065	15553113	7115	15556661	7165	33114331
7016	15535136	7066	15553116	7116	15556663	7166	33114334
7017	15535162	7067	15553131	7117	16211122	7167	33115124
7018	15535164	7068	15553133	7118	16331112	7168	33115126
7019	15535166	7069	15553136	7119	16333111	7169	33115142
7020	15535311	7070	15553162	7120	16333411	7170	33115144
7021	15535313	7071	15553164	7121	16333441	7171	33115146
7022	15535316	7072	15553166	7122	16335556	7172	33115162
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7025	15535336	7075	15553316	7125	33111254	7175	33115314
7026	15535361	7076	15553331	7126	33111256	7176	33115316
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7028	15535366	7078	15553336	7128	33111424	7178	33115351
7029	15535611	7079	15553361	7129	33111426	7179	33115353
7030	15535613	7080	15553363	7130	33111442	7180	33115355
7031	15535626	7081	15553366	7131	33111462	7181	33115512
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7035	15535661	7085	15553631	7135	33111624	7185	33115533
7036	15535663	7086	15553633	7136	33111626	7186	33115535
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7039	15551114	7089	15553663	7139	33111646	7189	33116212
7040	15551131	7090	15553666	7140	33111662	7190	33116331
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7042	15551136	7092	15556113	7142	33113125	7192	33131125
7043	15551162	7093	15556126	7143	33113142	7193	33131142
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7204	33131412	7254	33136344	7304	33153314	7354	33331414
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7206	33131434	7256	33136361	7306	33153346	7356	33331441
7207	33131436	7257	33136364	7307	33153361	7357	33331461
7208	33131514	7258	33136366	7308	33153364	7358	33331464
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7212	33131555	7262	33136551	7312	33153515	7362	33331626
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7216	33133114	7266	33143112	7316	33153551	7366	33331662
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7225	33133416	7275	33151162	7325	33155151	7375	33336441
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7228	33133626	7278	33151312	7328	33155311	7378	33336466
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7231	33133646	7281	33151331	7331	33155331	7381	33336641
7232	33133661	7282	33151334	7332	33155334	7382	33343666
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7234	33133666	7284	33151351	7334	33155351	7384	33351314
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7236	33134364	7286	33151355	7336	33155356	7386	33351361
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7240	33135116	7290	33151531	7340	33155531	7390	33351431
7241	33135136	7291	33151533	7341	33155533	7391	33351513
7242	33135141	7292	33151535	7342	33155536	7392	33351515
7243	33135143	7293	33151551	7343	33155561	7393	33351551
7244	33135155	7294	33151553	7344	33155563	7394	33351621
7245	33135162	7295	33151556	7345	33155566	7395	33351634
7246	33135314	7296	33153114	7346	33162112	7396	33351636
7247	33135316	7297	33153116	7347	33163311	7397	33356436
7248	33135514	7298	33153131	7348	33163341	7398	33511125
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7404	33511166	7454	33533661	7504	33553116	7554	35151142
7405	33511314	7455	33533664	7505	33553136	7555	35151144
7406	33511316	7456	33533666	7506	33553141	7556	35151146
7407	33511336	7457	33535114	7507	33553143	7557	35151162
7408	33511361	7458	33535116	7508	33553156	7558	35151164
7409	33511363	7459	33535136	7509	33553162	7559	35151166
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7413	33511433	7463	33535162	7513	33553611	7563	35151331
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7415	33511516	7465	33535514	7515	33631112	7565	35151335
7416	33511535	7466	33535516	7516	33633111	7566	35151351
7417	33511551	7467	33536111	7517	33651112	7567	35151353
7418	33511553	7468	33536311	7518	33653111	7568	35151356
7419	33511556	7469	33536341	7519	33655561	7569	35151512
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7422	33531114	7472	33536361	7522	35131142	7572	35151531
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7424	33531136	7474	33536366	7524	35131146	7574	35151536
7425	33531141	7475	33536511	7525	35131162	7575	35151561
7426	33531155	7476	33536531	7526	35131164	7576	35151563
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7428	33531314	7478	33551114	7528	35131314	7578	35153114
7429	33531316	7479	33551136	7529	35131316	7579	35153116
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7433	33531411	7483	33551162	7533	35131535	7583	35153151
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7436	33531436	7486	33551316	7536	35131556	7586	35153313
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7438	33531515	7488	33551361	7538	35133116	7588	35153336
7439	33531551	7489	33551363	7539	35133136	7589	35153351
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7441	33531556	7491	33551411	7541	35133314	7591	35153356
7442	33531621	7492	33551431	7542	35133316	7592	35153511
7443	33531634	7493	33551433	7543	35133361	7593	35153513
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7446	33533116	7496	33551536	7546	35135114	7596	35153533
7447	33533141	7497	33551561	7547	35135116	7597	35153536
7448	33533144	7498	33551563	7548	35135156	7598	35153561
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REVISION RECORD	DATE	NAME
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7606	35155136	7656	35551136	7706	53111256	7756	53115162
7607	35155162	7657	35551162	7707	53111422	7757	53115164
7608	35155164	7658	35551164	7708	53111424	7758	53115166
7609	35155166	7659	35551166	7709	53111426	7759	53115314
7610	35155311	7660	35551316	7710	53111442	7760	53115316
7611	35155313	7661	35551336	7711	53111444	7761	53115336
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7613	35155331	7663	35551363	7713	53111462	7763	53115353
7614	35155333	7664	35551366	7714	53111464	7764	53115355
7615	35155336	7665	35551621	7715	53111466	7765	53115512
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7617	35155363	7667	35551626	7717	53111624	7767	53115516
7618	35155366	7668	35551641	7718	53111626	7768	53115531
7619	35155611	7669	35551643	7719	53111642	7769	53115533
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7621	35155626	7671	35551662	7721	53111646	7771	53115551
7622	35155631	7672	35551664	7722	53111662	7772	53115553
7623	35155633	7673	35551666	7723	53111664	7773	53115556
7624	35155646	7674	35553116	7724	53111666	7774	53116212
7625	35155661	7675	35553136	7725	53113125	7775	53116331
7626	35155663	7676	35553162	7726	53113142	7776	53116334
7627	35155666	7677	35553164	7727	53113144	7777	53131125
7628	35333114	7678	35553166	7728	53113146	7778	53131142
7629	35333116	7679	35553316	7729	53113162	7779	53131144
7630	35333141	7680	35553336	7730	53113164	7780	53131146
7631	35333144	7681	35553361	7731	53113166	7781	53131162
7632	35333146	7682	35553363	7732	53113314	7782	53131164
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7647	35533136	7697	35556266	7747	53114122	7797	53131555
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REVISION RECORD	DATE	NAME
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CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING
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7805	53133146	7855	53151124	7905	53155114	7955	53356436
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7807	53133164	7857	53151142	7907	53155131	7957	53365531
7808	53133166	7858	53151144	7908	53155133	7958	53365533
7809	53133414	7859	53151146	7909	53155135	7959	53511125
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7819	53133666	7869	53151351	7919	53155351	7969	53511361
7820	53134361	7870	53151353	7920	53155353	7970	53511363
7821	53134364	7871	53151355	7921	53155356	7971	53511365
7822	53134366	7872	53151512	7922	53155511	7972	53511412
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7825	53135116	7875	53151531	7925	53155531	7975	53511514
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7828	53135143	7878	53151551	7928	53155561	7978	53511551
7829	53135155	7879	53151553	7929	53155563	7979	53511553
7830	53135162	7880	53151556	7930	53155566	7980	53511556
7831	53135314	7881	53153114	7931	53162112	7981	53511621
7832	53135316	7882	53153116	7932	53163311	7982	53511633
7833	53135514	7883	53153131	7933	53163341	7983	53531114
7834	53135516	7884	53153134	7934	53163344	7984	53531116
7835	53135636	7885	53153136	7935	53351314	7985	53531136
7836	53136112	7886	53153151	7936	53351316	7986	53531141
7837	53136311	7887	53153153	7937	53351361	7987	53531143
7838	53136341	7888	53153155	7938	53351364	7988	53531155
7839	53136344	7889	53153314	7939	53351366	7989	53531162
7840	53136346	7890	53153316	7940	53351411	7990	53531314
7841	53136361	7891	53153346	7941	53351431	7991	53531316
7842	53136364	7892	53153361	7942	53351434	7992	53531361
7843	53136366	7893	53153364	7943	53351436	7993	53531364
7844	53136511	7894	53153366	7944	53351513	7994	53531366
7845	53136531	7895	53153511	7945	53351515	7995	53531411
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7847	53136551	7897	53153515	7947	53351553	7997	53531434
7848	53136553	7898	53153531	7948	53351556	7998	53531436
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REVISION RECORD	DATE	NAME	
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8004	53531621	8054	53551411	8104	55111664	8154	55133116
8005	53531634	8055	53551431	8105	55113142	8155	55133136
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8007	53533114	8057	53551513	8107	55113146	8157	55133314
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8009	53533141	8059	53551536	8109	55113164	8159	55133361
8010	53533144	8060	53551561	8110	55113166	8160	55133364
8011	53533146	8061	53551563	8111	55113314	8161	55133366
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8014	53533166	8064	53551633	8114	55113514	8164	55135156
8015	53535114	8065	53551641	8115	55113516	8165	55135336
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8017	53535136	8067	53553116	8117	55115126	8167	55135536
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8020	53535156	8070	53553143	8120	55115146	8170	55151142
8021	53535162	8071	53553156	8121	55115162	8171	55151144
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8024	53535316	8074	53553514	8124	55115314	8174	55151164
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8030	53536344	8080	53553653	8130	55115512	8180	55151333
8031	53536346	8081	53553656	8131	55115514	8181	55151335
8032	53536361	8082	53611122	8132	55115516	8182	55151351
8033	53536364	8083	53631112	8133	55115531	8183	55151353
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8035	53536511	8085	53651112	8135	55115536	8185	55151512
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8037	53536534	8087	53655561	8137	55115563	8187	55151516
8038	53536551	8088	53655563	8138	55131142	8188	55151531
8039	53536553	8089	53655566	8139	55131144	8189	55151533
8040	53536556	8090	55111422	8140	55131146	8190	55151536
8041	53551114	8091	55111424	8141	55131162	8191	55151561
8042	53551136	8092	55111426	8142	55131164	8192	55151563
8043	53551141	8093	55111442	8143	55131166	8193	55151566
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8204	55153336	8254	55556146	8304	63314311	8354	63353614
8205	55153351	8255	55556261	8305	63314341	8355	63353626
8206	55153353	8256	55556263	8306	63314344	8356	63355114
8207	55153356	8257	55556266	8307	63314346	8357	63355116
8208	55153511	8258	55556316	8308	63314361	8358	63355136
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8210	55153516	8260	63311125	8310	63314366	8360	63355143
8211	55153531	8261	63311142	8311	63315114	8361	63355156
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8215	55153563	8265	63311164	8315	63315136	8365	63355316
8216	55153566	8266	63311166	8316	63315151	8366	63356361
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8235	55155611	8285	63313116	8335	63316364	8385	65311516
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8237	55155626	8287	63313144	8337	63351114	8387	65311551
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8240	55155646	8290	63313164	8340	63351141	8390	65313114
8241	55155661	8291	63313166	8341	63351143	8391	65313116
8242	55155663	8292	63313414	8342	63351155	8392	65313136
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8244	55351336	8294	63313611	8344	63353114	8394	65313314
8245	55351513	8295	63313614	8345	63353116	8395	65313316
8246	55351516	8296	63313626	8346	63353141	8396	65313361
8247	55351536	8297	63313641	8347	63353144	8397	65313364
8248	55351561	8298	63313644	8348	63353146	8398	65313366
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5-29-2009

ATTACHMENT Q11

2001 CIVIC_English

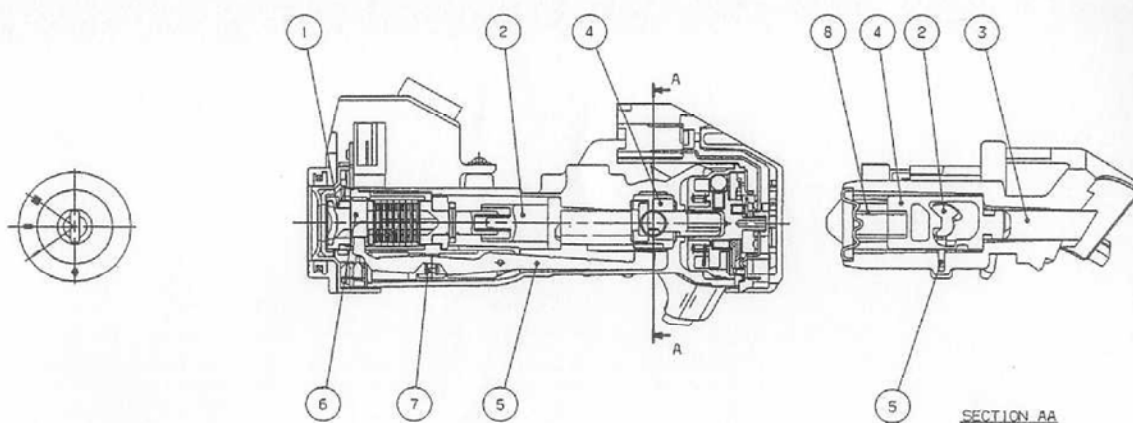
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TECHNICAL DESCRIPTION OF THE DEVICE

LIST OF THE KEY POSITIONS AVAILABLE IN SEQUENCE

SEQUENCE	FUNCTION POSITIONS	KEY INSERT/ WITHDRAW	ANTI-STEFT (STEERING LOCK)	ACCESSORY	IGNITION	SELF STARTER (STARTING MOTOR)
1	withdraw	—	locked	off	off	off
2	insert O (LOCK)	possible	locked	off	off	off
3	I (ACC)	impossible	unlocked	on	off	off
4	II (ON)	impossible	unlocked	on	on	off
5	III (START)	impossible	unlocked	off	on	on
6	II (ON)	impossible	unlocked	on	on	off
7	push I (ACC)	impossible	unlocked	on	off	off
8	O (LOCK)	possible	unlocked	off	off	off
9	withdrawn	—	locked	off	off	off

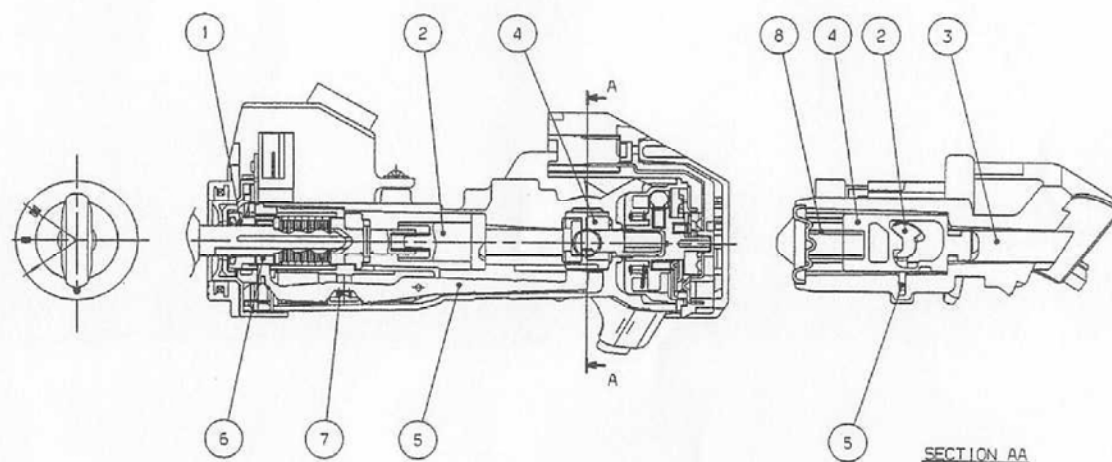
1 Step 1 "0" Position (with key removed)



In this position the spring 8 is expanded and the end of the lock pin 3 engages the recess formed in the steering shaft to prevent the rotation.

Further the forward end of the stopper plate 5 lifts up the key slider 6 by the force of the spring 7 whereby the key slider 6 enters into the key slot.

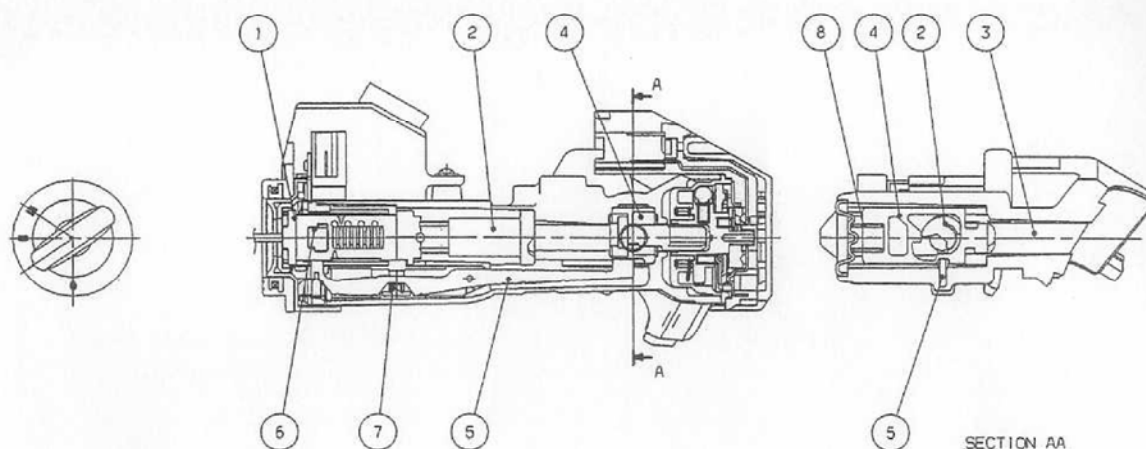
2 Step 2 "0" Position (with key inserted)



When the key inserted into the key slot, the back of the key pushes the key slider 6 and away from the key slot whereby the key slider 6 pushes down the forward end of the stopper plate 5 to compress the spring 7, whereby the backward the end of the stopper plate 5 presses against the lower side of the slider 4.

3

Step 3 "I" Position

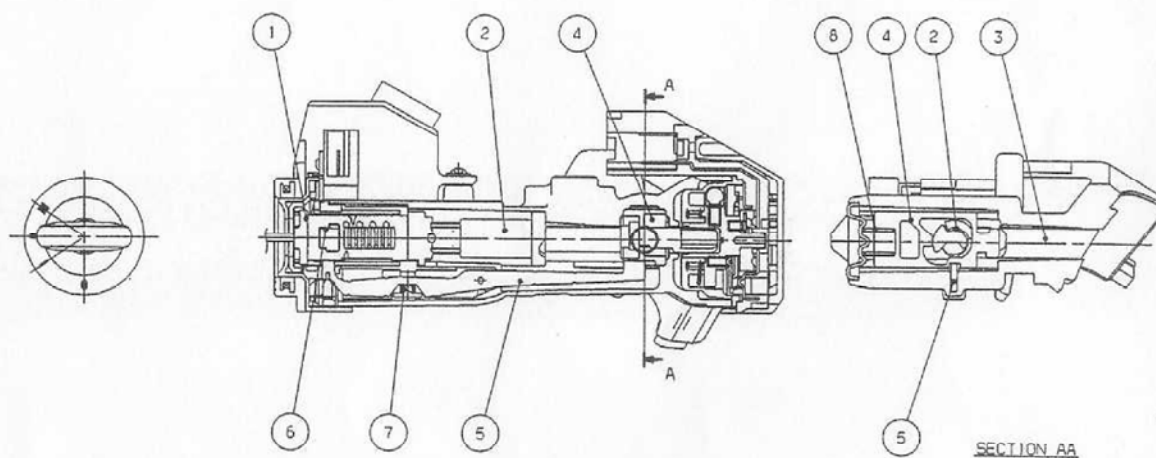


When the key is turned from "0" to "I", the semicylindrical cam of the joint inner 2 is rotated simultaneously and lifts up the slider 4, and withdraws the lock pin 3 from the steering shaft recess.

On the other hand the backward end of the stopper plate snaps into the recess of the slider 4 so as to retain the same position until the key is completely withdrawn from the key slot whereby accidental locking of steering can be avoided.

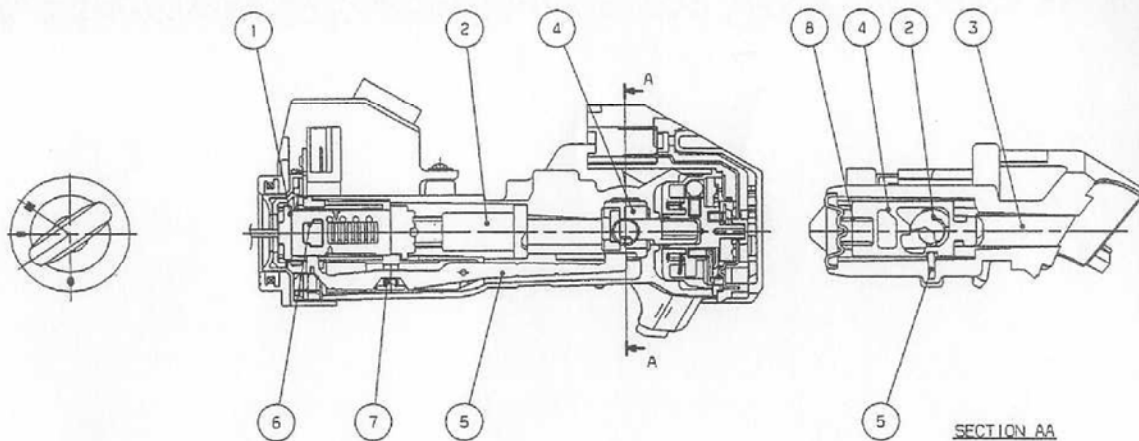
4

Step 4 "II" Position



When the key is turned from "I" to "II" or "III", the stopper plate 5 and the lock pin 3 keep in same position since the forward end of the stopper plate 5 is on the surface of the inner cylinder 1 and the inside wall of the slider 4 is on the semicylindrical cam of the joint inner 2.

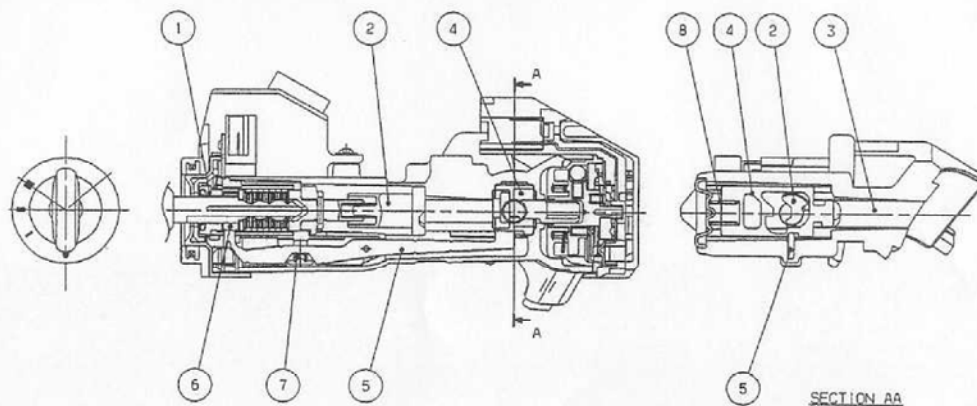
5 Step 5 "I" Position



When the key is turned counterclockwise direction from "II" to "I", the stopper plate 5 and lock pin 3 keep in the same condition.

But the key should be pushed at the "I" position so as to turn back from "I" to "O".

6 Step 6 "O" Position(with key insert)

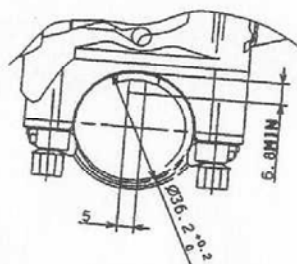


When the key is turned to "O" after pushing at the "I" position, the slider 4 is free from the inner joint cam.

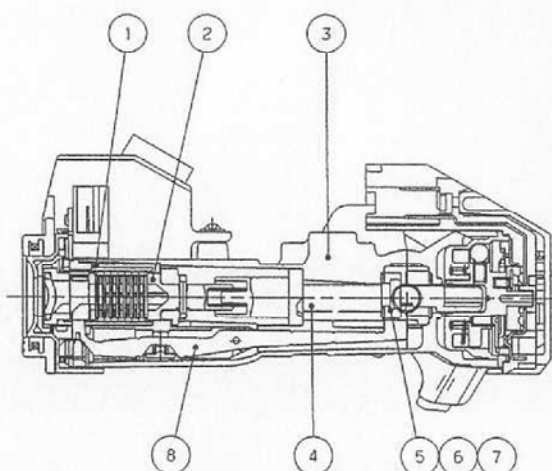
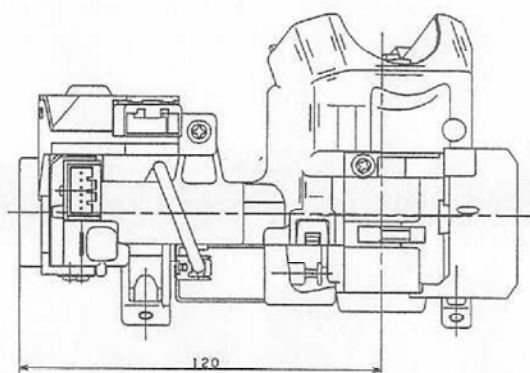
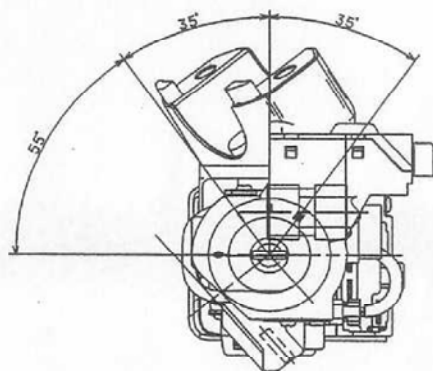
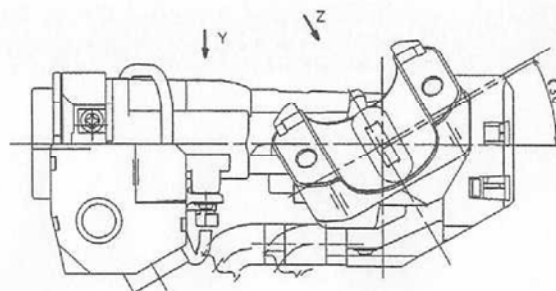
But slider 4 remains in its position since the backward end of the stopper plate 5 engages the lower side recess of the slider 4.

Only upon almost complete withdrawal of the key is it made possible for the key slider 6 to enter into the key slot and the stopper plate 5 swings clockwise direction, whereupon the backward end of the stopper plate 5 frees the slider 4 and thereby the lock pin 3.

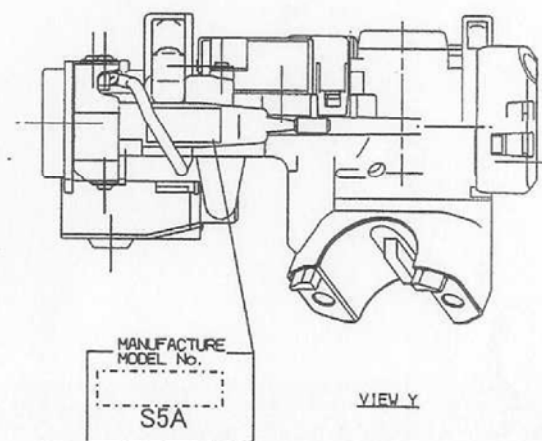
As a result of it, the lock pin 3 moves down by the force of the spring 8 and engages the steering shaft recess.



VIEW Z



STRUCTURE DWG.



VIEW Y

NO.	NAME	QTY	MATERIAL
1	CYLINDER	1	Zn ALLOY
2	INNER	1	Zn ALLOY
3	BODY	1	Mg ALLOY
4	JOINT INNER	1	Zn ALLOY
5	LOCK PIN	1	SC
6	BODY COVER	1	SP
7	SLIDER	1	Zn ALLOY
8	STOPPER PLATE	1	SP

	TITLE	VEHICLE TYPE	
	STEERING LOCK CONSTRUCTION		NO.
ISS. DATE			

95/56/EC

CERTIFICATION FOR DISC TUMBLERS SPECIFICATIONS
OF STEERING LOCK

Vehicle Make : HONDA

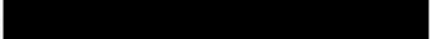
I hereby certify the compliance with the requirements of the below items of paragraph 3.9.2 of Annex IV of EC directive.

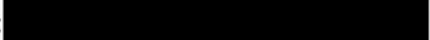
3.9.2

For lock cylinders with disc tumblers no more than two identical tumblers operating in the same direction shall be positioned adjacent to each other, and in a lock there shall not be more than 50 % identical tumblers.

Steering Lock Manufacturer : Honda Lock Mfg. Co. , Ltd.

Steering Lock Model No. : S5A

Signed : 

Name : 

Title : Head in Charge of Engineering

Date : 11. JUL. '06

For and on behalf of Honda Lock Mfg. Co. , Ltd.

PAGE CONTAINS CONFIDENTIAL INFORMATION

95/56/EC

CERTIFICATION OF STEERING LOCK GENERAL SPECIFICATIONS

Vehicle Make : HONDA

I certify herewith that the steering locks below mentioned possess more than 1,000 Key combinations and are satisfactorily in line with paragraph 3.6 of Annex IV in EC directive as follows;

3.6 Mechanical locking systems shall provide at least 1,000 different key combinations or a number equal to the total number of vehicles manufactured annually if less than 1,000. In vehicles of one type the frequency of occurrence of each combination shall be roughly one per 1,000.

Steering Lock Manufacturer : HONDA LOCK MFG. CO. , LTD.Steering Lock Model No. : S5A(side-Cutting Code key)

Signed

Name

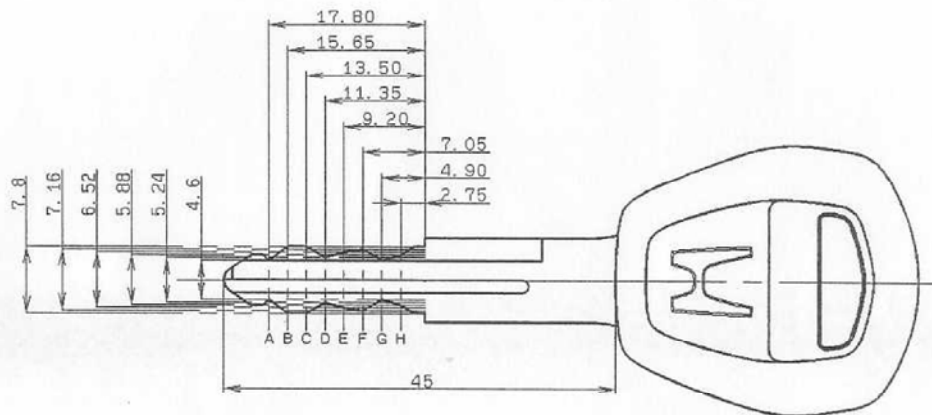
Title : Chief EngineerDate : 10. MAR. , '00

For and on behalf of HONDA LOCK MFG. CO. , LTD.

Interpretation of Key No. List

(1) Interpretation

Example ; Interpretation of Code No. 5126 Cutting 11136412.



Widths of a key without and between cuts have six dimensions ;

- 1; Width without cuts that measures 7.8mm
- 2; Width between cuts that measures 7.16mm
- 3; Width between cuts that measures 6.52mm
- 4; Width between cuts that measures 5.88mm
- 5; Width between cuts that measures 5.24mm
- 6; Width between cuts that measures 4.6mm

Therefore, as cuts become deeper, Cutting No. will be larger.

Cutting 11136412 will be read from the Position A to Position H in Fig. 1 in this order, where the first digit represents the width at Position A in Fig. 1 (width without cuts in this case) and the fourth digit of cutting No. 3, for instance, represents the width between cuts at Position D in Fig. 1 (6.52mm)

(2) 3442 Different Keys

This Key covers 3442 different combinations from Code No. 5001 to Code No. 8442.

CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING
5001	11112236	5051	11116466	5101	11133646	5151	11151444
5002	11112252	5052	11116623	5102	11133651	5152	11151446
5003	11112254	5053	11116625	5103	11133653	5153	11151462
5004	11112256	5054	11116642	5104	11133665	5154	11151464
5005	11112425	5055	11116645	5105	11134214	5155	11151466
5006	11112522	5056	11122214	5106	11134216	5156	11151622
5007	11112542	5057	11122216	5107	11134366	5157	11151624
5008	11112544	5058	11125221	5108	11135136	5158	11151626
5009	11112546	5059	11125666	5109	11135142	5159	11151642
5010	11112562	5060	11126621	5110	11135144	5160	11151644
5011	11112564	5061	11126661	5111	11135156	5161	11151646
5012	11112566	5062	11126663	5112	11135162	5162	11151662
5013	11112624	5063	11131236	5113	11135164	5163	11151664
5014	11112626	5064	11131252	5114	11135336	5164	11151666
5015	11114223	5065	11131254	5115	11135361	5165	11153124
5016	11114225	5066	11131256	5116	11135363	5166	11153136
5017	11114242	5067	11131422	5117	11135414	5167	11153142
5018	11114244	5068	11131424	5118	11135416	5168	11153144
5019	11114246	5069	11131426	5119	11135536	5169	11153156
5020	11114262	5070	11131442	5120	11135614	5170	11153162
5021	11114264	5071	11131444	5121	11136123	5171	11153164
5022	11114266	5072	11131446	5122	11136215	5172	11153314
5023	11114423	5073	11131462	5123	11136334	5173	11153336
5024	11114425	5074	11131464	5124	11136341	5174	11153351
5025	11114452	5075	11131466	5125	11136355	5175	11153353
5026	11114454	5076	11131622	5126	11136412	5176	11153355
5027	11114456	5077	11131624	5127	11136533	5177	11153416
5028	11114622	5078	11131626	5128	11136541	5178	11153512
5029	11114624	5079	11131642	5129	11141222	5179	11153514
5030	11114626	5080	11131644	5130	11141224	5180	11153531
5031	11114642	5081	11131646	5131	11142216	5181	11153533
5032	11114644	5082	11131662	5132	11143122	5182	11153535
5033	11114646	5083	11131664	5133	11143312	5183	11153551
5034	11114662	5084	11131666	5134	11143331	5184	11153553
5035	11114664	5085	11133136	5135	11143334	5185	11153556
5036	11116223	5086	11133142	5136	11145221	5186	11154216
5037	11116225	5087	11133144	5137	11145553	5187	11155123
5038	11116242	5088	11133156	5138	11145556	5188	11155135
5039	11116244	5089	11133162	5139	11145561	5189	11155142
5040	11116246	5090	11133164	5140	11145612	5190	11155154
5041	11116262	5091	11133361	5141	11151236	5191	11155156
5042	11116264	5092	11133364	5142	11151242	5192	11155162
5043	11116266	5093	11133414	5143	11151244	5193	11155313
5044	11116422	5094	11133416	5144	11151256	5194	11155334
5045	11116424	5095	11133436	5145	11151262	5195	11155336
5046	11116426	5096	11133612	5146	11151264	5196	11155341
5047	11116442	5097	11133614	5147	11151422	5197	11155353
5048	11116445	5098	11133626	5148	11151424	5198	11155356
5049	11116462	5099	11133631	5149	11151426	5199	11155361
5050	11116464	5100	11133634	5150	11151442	5200	11155415

REVISION RECORD	DATE	NAME
NAME		

CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING	CORD NO.	CUTTING
5201	11155421	5251	11313364	5301	11331316	5351	11336112
5202	11155534	5252	11313366	5302	11331361	5352	11336311
5203	11155536	5253	11313436	5303	11331364	5353	11336341
5204	11155541	5254	11313514	5304	11331366	5354	11336344
5205	11155614	5255	11313516	5305	11331412	5355	11336346
5206	11156215	5256	11313612	5306	11331431	5356	11336361
5207	11162122	5257	11313631	5307	11331434	5357	11336364
5208	11163312	5258	11313634	5308	11331436	5358	11336366
5209	11163331	5259	11313636	5309	11331514	5359	11336511
5210	11163334	5260	11313651	5310	11331516	5360	11336531
5211	11165221	5261	11313653	5311	11331551	5361	11336534
5212	11165553	5262	11313655	5312	11331553	5362	11336551
5213	11165556	5263	11314122	5313	11331555	5363	11336553
5214	11165621	5264	11314334	5314	11331621	5364	11336555
5215	11214421	5265	11314341	5315	11331634	5365	11343666
5216	11261124	5266	11315124	5316	11331636	5366	11351136
5217	11262116	5267	11315126	5317	11333114	5367	11351142
5218	11265561	5268	11315142	5318	11333116	5368	11351144
5219	11311225	5269	11315144	5319	11333141	5369	11351156
5220	11311252	5270	11315146	5320	11333144	5370	11351162
5221	11311254	5271	11315162	5321	11333146	5371	11351164
5222	11311256	5272	11315164	5322	11333162	5372	11351314
5223	11311422	5273	11315166	5323	11333164	5373	11351316
5224	11311424	5274	11315313	5324	11333166	5374	11351336
5225	11311426	5275	11315315	5325	11333414	5375	11351361
5226	11311442	5276	11315336	5326	11333416	5376	11351363
5227	11311444	5277	11315353	5327	11333611	5377	11351365
5228	11311446	5278	11315355	5328	11333614	5378	11351412
5229	11311462	5279	11315361	5329	11333626	5379	11351431
5230	11311464	5280	11315513	5330	11333641	5380	11351433
5231	11311466	5281	11315515	5331	11333644	5381	11351514
5232	11311622	5282	11315533	5332	11333646	5382	11351516
5233	11311624	5283	11315535	5333	11333661	5383	11351535
5234	11311626	5284	11315541	5334	11333664	5384	11351551
5235	11311642	5285	11315553	5335	11334361	5385	11351553
5236	11311644	5286	11315556	5336	11334364	5386	11351556
5237	11311646	5287	11315561	5337	11334366	5387	11351621
5238	11311662	5288	11315621	5338	11334436	5388	11351633
5239	11311664	5289	11316221	5339	11335114	5389	11353114
5240	11311666	5290	11316334	5340	11335116	5390	11353136
5241	11313125	5291	11316341	5341	11335136	5391	11353141
5242	11313142	5292	11316421	5342	11335141	5392	11353143
5243	11313144	5293	11331125	5343	11335143	5393	11353155
5244	11313146	5294	11331142	5344	11335155	5394	11353162
5245	11313162	5295	11331144	5345	11335162	5395	11353314
5246	11313164	5296	11331146	5346	11335314	5396	11353316
5247	11313166	5297	11331162	5347	11335316	5397	11353361
5248	11313314	5298	11331164	5348	11335514	5398	11353364
5249	11313316	5299	11331166	5349	11335516	5399	11353366
5250	11313361	5300	11331314	5350	11335636	5400	11353436

REVISION RECORD	DATE	NAME	
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5403	11353611	5453	11511242	5503	11515122	5553	11531551
5404	11353631	5454	11511244	5504	11515124	5554	11531553
5405	11353634	5455	11511246	5505	11515126	5555	11531556
5406	11353636	5456	11511262	5506	11515142	5556	11533114
5407	11353651	5457	11511264	5507	11515144	5557	11533116
5408	11353653	5458	11511266	5508	11515146	5558	11533131
5409	11354116	5459	11511422	5509	11515162	5559	11533134
5410	11355114	5460	11511424	5510	11515164	5560	11533136
5411	11355136	5461	11511426	5511	11515166	5561	11533151
5412	11355141	5462	11511442	5512	11515312	5562	11533153
5413	11355143	5463	11511444	5513	11515314	5563	11533155
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5415	11355162	5465	11511462	5515	11515331	5565	11533316
5416	11355164	5466	11511464	5516	11515333	5566	11533346
5417	11355314	5467	11511466	5517	11515335	5567	11533361
5418	11355316	5468	11511622	5518	11515351	5568	11533364
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5420	11355361	5470	11511626	5520	11515356	5570	11533511
5421	11355363	5471	11511642	5521	11515512	5571	11533513
5422	11355365	5472	11511644	5522	11515514	5572	11533515
5423	11355514	5473	11511646	5523	11515516	5573	11533531
5424	11355516	5474	11511662	5524	11515531	5574	11533534
5425	11355536	5475	11511664	5525	11515533	5575	11533536
5426	11361122	5476	11511666	5526	11515536	5576	11533551
5427	11363112	5477	11513122	5527	11515561	5577	11533553
5428	11363311	5478	11513124	5528	11515563	5578	11533556
5429	11363341	5479	11513126	5529	11515566	5579	11535112
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5433	11365311	5483	11513162	5533	11531144	5583	11535133
5434	11365331	5484	11513164	5534	11531146	5584	11535135
5435	11365334	5485	11513166	5535	11531162	5585	11535151
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5437	11365531	5487	11513316	5537	11531166	5587	11535156
5438	11365533	5488	11513331	5538	11531312	5588	11535311
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5441	11411222	5491	11513351	5541	11531331	5591	11535331
5442	11413312	5492	11513353	5542	11531334	5592	11535334
5443	11431122	5493	11513355	5543	11531336	5593	11535336
5444	11433112	5494	11513512	5544	11531351	5594	11535351
5445	11433311	5495	11513514	5545	11531353	5595	11535353
5446	11433341	5496	11513516	5546	11531355	5596	11535356
5447	11433344	5497	11513531	5547	11531512	5597	11535511
5448	11451124	5498	11513533	5548	11531514	5598	11535513
5449	11452116	5499	11513535	5549	11531516	5599	11535516
5450	11455561	5500	11513551	5550	11531531	5600	11535521

REVISION RECORD	DATE	NAME	
NAME			

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5603	11535561	5653	11553536	5703	13111466	5753	13115512
5604	11535563	5654	11553561	5704	13111622	5754	13115514
5605	11535566	5655	11553563	5705	13111624	5755	13115516
5606	11551122	5656	11553566	5706	13111626	5756	13115531
5607	11551136	5657	11554116	5707	13111642	5757	13115533
5608	11551142	5658	11555112	5708	13111644	5758	13115535
5609	11551144	5659	11555114	5709	13111646	5759	13115551
5610	11551156	5660	11555131	5710	13111662	5760	13115553
5611	11551162	5661	11555133	5711	13111664	5761	13115556
5612	11551164	5662	11555136	5712	13111666	5762	13116212
5613	11551312	5663	11555162	5713	13113125	5763	13116331
5614	11551314	5664	11555164	5714	13113142	5764	13116334
5615	11551316	5665	11555166	5715	13113144	5765	13131125
5616	11551331	5666	11555311	5716	13113146	5766	13131142
5617	11551333	5667	11555313	5717	13113162	5767	13131144
5618	11551335	5668	11555316	5718	13113164	5768	13131146
5619	11551351	5669	11555331	5719	13113166	5769	13131162
5620	11551353	5670	11555334	5720	13113314	5770	13131164
5621	11551356	5671	11555336	5721	13113316	5771	13131166
5622	11551512	5672	11555361	5722	13113361	5772	13131314
5623	11551514	5673	11555363	5723	13113364	5773	13131316
5624	11551516	5674	11555366	5724	13113366	5774	13131361
5625	11551531	5675	11555611	5725	13113436	5775	13131364
5626	11551533	5676	11555613	5726	13113514	5776	13131366
5627	11551536	5677	11555626	5727	13113516	5777	13131412
5628	11551561	5678	11555631	5728	13113612	5778	13131431
5629	11551563	5679	11555633	5729	13113631	5779	13131434
5630	11551566	5680	11555646	5730	13113634	5780	13131436
5631	11553112	5681	11555663	5731	13113636	5781	13131514
5632	11553114	5682	11555666	5732	13113651	5782	13131516
5633	11553131	5683	11621122	5733	13113653	5783	13131551
5634	11553133	5684	11623311	5734	13113655	5784	13131553
5635	11553135	5685	11633112	5735	13114122	5785	13131555
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5640	11553313	5690	12651116	5740	13115126	5790	13133116
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5643	11553334	5693	13111254	5743	13115146	5793	13133146
5644	11553336	5694	13111256	5744	13115162	5794	13133162
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5647	11553356	5697	13111426	5747	13115314	5797	13133414
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5804	13133646	5854	13151331	5904	13155331	5954	13313166
5805	13133661	5855	13151334	5905	13155334	5955	13313414
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5807	13133666	5857	13151351	5907	13155351	5957	13313611
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5810	13134366	5860	13151512	5910	13155511	5960	13313641
5811	13134436	5861	13151514	5911	13155513	5961	13313644
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5813	13135116	5863	13151531	5913	13155531	5963	13313661
5814	13135136	5864	13151533	5914	13155533	5964	13313664
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5816	13135143	5866	13151551	5916	13155561	5966	13314112
5817	13135155	5867	13151553	5917	13155563	5967	13314311
5818	13135162	5868	13151556	5918	13155566	5968	13314341
5819	13135314	5869	13153114	5919	13162112	5969	13314344
5820	13135316	5870	13153116	5920	13163311	5970	13314346
5821	13135514	5871	13153131	5921	13163341	5971	13314361
5822	13135516	5872	13153134	5922	13163344	5972	13314364
5823	13135636	5873	13153136	5923	13311125	5973	13314366
5824	13136112	5874	13153151	5924	13311142	5974	13315114
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5826	13136341	5876	13153155	5926	13311146	5976	13315131
5827	13136344	5877	13153314	5927	13311162	5977	13315134
5828	13136346	5878	13153316	5928	13311164	5978	13315136
5829	13136361	5879	13153346	5929	13311166	5979	13315151
5830	13136364	5880	13153361	5930	13311314	5980	13315153
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5848	13151162	5898	13155151	5948	13313116	5998	13316364
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6005	13331162	6055	13336466	6105	13353104	6155	13511144
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6015	13331464	6065	13343641	6115	13355143	6165	13511365
6016	13331466	6066	13343644	6116	13355156	6166	13511412
6017	13331621	6067	13343646	6117	13355162	6167	13511431
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6022	13331646	6072	13344364	6122	13355516	6172	13511551
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6025	13331666	6075	13351114	6125	13356364	6175	13511621
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6030	13334146	6080	13351155	6130	13363411	6180	13513141
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6032	13334164	6082	13351314	6132	13363444	6182	13513155
6033	13334166	6083	13351316	6133	13363446	6183	13513162
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6205	13515131	6255	13533141	6305	13551141	6355	13553143
6206	13515133	6256	13533144	6306	13551143	6356	13553162
6207	13515135	6257	13533146	6307	13551156	6357	13553164
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6211	13515313	6261	13533414	6311	13551316	6361	13553336
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6215	13515353	6265	13533626	6315	13551365	6365	13553614
6216	13515356	6266	13533641	6316	13551411	6366	13553626
6217	13515511	6267	13533644	6317	13551431	6367	13611122
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6219	13515516	6269	13533661	6319	13551513	6369	13633111
6220	13515531	6270	13533664	6320	13551516	6370	13633411
6221	13515533	6271	13533666	6321	13551536	6371	13633441
6222	13515536	6272	13534361	6322	13551561	6372	13633444
6223	13515561	6273	13534364	6323	13551563	6373	13651112
6224	13515563	6274	13534366	6324	13551566	6374	13653111
6225	13515566	6275	13534436	6325	13551621	6375	13653311
6226	13516211	6276	13535114	6326	13551633	6376	13653341
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6246	13531515	6296	13536366	6346	13553634	6396	14551116
6247	13531551	6297	13536511	6347	13553636	6397	15111224
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6606	15153531	6656	15311512	6706	15315336	6756	15333446
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6613	15155114	6663	15311553	6713	15315531	6763	15333641
6614	15155116	6664	15311556	6714	15315533	6764	15333644
6615	15155131	6665	15313112	6715	15315536	6765	15333646
6616	15155133	6666	15313114	6716	15315561	6766	15333661
6617	15155136	6667	15313116	6717	15315563	6767	15333664
6618	15155162	6668	15313131	6718	15315566	6768	15333666
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6621	15155311	6671	15313151	6721	15331131	6771	15335115
6622	15155313	6672	15313153	6722	15331134	6772	15335131
6623	15155316	6673	15313155	6723	15331136	6773	15335134
6624	15155331	6674	15313311	6724	15331151	6774	15335136
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6627	15155361	6677	15313341	6727	15331311	6777	15335156
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6629	15155366	6679	15313346	6729	15331316	6779	15335314
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6631	15155613	6681	15313364	6731	15331344	6781	15335341
6632	15155626	6682	15313366	6732	15331346	6782	15335344
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6634	15155633	6684	15313513	6734	15331364	6784	15335361
6635	15155646	6685	15313515	6735	15331366	6785	15335364
6636	15155661	6686	15313531	6736	15331511	6786	15335366
6637	15155663	6687	15313534	6737	15331513	6787	15335511
6638	15155666	6688	15313536	6738	15331515	6788	15335513
6639	15311124	6689	15313551	6739	15331531	6789	15335516
6640	15311126	6690	15313553	6740	15331534	6790	15335531
6641	15311142	6691	15313556	6741	15331536	6791	15335534
6642	15311144	6692	15315112	6742	15331551	6792	15335536
6643	15311146	6693	15315114	6743	15331553	6793	15335561
6644	15311162	6694	15315116	6744	15331556	6794	15335563
6645	15311164	6695	15315131	6745	15333114	6795	15351112
6646	15311166	6696	15315133	6746	15333116	6796	15351114
6647	15311312	6697	15315135	6747	15333141	6797	15351116
6648	15311314	6698	15315151	6748	15333144	6798	15351131
6649	15311316	6699	15315153	6749	15333146	6799	15351133
6650	15311331	6700	15315156	6750	15333162	6800	15351135

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6803	15351156	6853	15355133	6903	15513112	6953	15515646
6804	15351311	6854	15355136	6904	15513114	6954	15515661
6805	15351313	6855	15355162	6905	15513116	6955	15515663
6806	15351315	6856	15355164	6906	15513131	6956	15515666
6807	15351331	6857	15355166	6907	15513133	6957	15531112
6808	15351334	6858	15355311	6908	15513135	6958	15531114
6809	15351336	6859	15355313	6909	15513151	6959	15531116
6810	15351351	6860	15355316	6910	15513153	6960	15531131
6811	15351353	6861	15355331	6911	15513156	6961	15531133
6812	15351356	6862	15355334	6912	15513311	6962	15531135
6813	15351511	6863	15355336	6913	15513313	6963	15531151
6814	15351513	6864	15355361	6914	15513315	6964	15531153
6815	15351516	6865	15355363	6915	15513331	6965	15531156
6816	15351531	6866	15355366	6916	15513334	6966	15531311
6817	15351533	6867	15355611	6917	15513336	6967	15531313
6818	15351536	6868	15355613	6918	15513351	6968	15531315
6819	15351561	6869	15355626	6919	15513353	6969	15531331
6820	15351563	6870	15355631	6920	15513356	6970	15531334
6821	15351566	6871	15355633	6921	15513511	6971	15531336
6822	15353111	6872	15355646	6922	15513513	6972	15531351
6823	15353113	6873	15355661	6923	15513516	6973	15531353
6824	15353115	6874	15355663	6924	15513531	6974	15531356
6825	15353131	6875	15355666	6925	15513533	6975	15531511
6826	15353134	6876	15511122	6926	15513536	6976	15531513
6827	15353136	6877	15511124	6927	15513561	6977	15531516
6828	15353151	6878	15511126	6928	15513563	6978	15531531
6829	15353153	6879	15511142	6929	15513566	6979	15531533
6830	15353156	6880	15511144	6930	15515112	6980	15531536
6831	15353311	6881	15511146	6931	15515114	6981	15531561
6832	15353314	6882	15511162	6932	15515116	6982	15531563
6833	15353316	6883	15511164	6933	15515131	6983	15531566
6834	15353341	6884	15511166	6934	15515133	6984	15533111
6835	15353344	6885	15511312	6935	15515136	6985	15533113
6836	15353346	6886	15511314	6936	15515162	6986	15533115
6837	15353361	6887	15511316	6937	15515164	6987	15533131
6838	15353364	6888	15511331	6938	15515166	6988	15533134
6839	15353366	6889	15511333	6939	15515311	6989	15533136
6840	15353511	6890	15511335	6940	15515313	6990	15533151
6841	15353513	6891	15511351	6941	15515316	6991	15533153
6842	15353516	6892	15511353	6942	15515331	6992	15533156
6843	15353531	6893	15511356	6943	15515333	6993	15533311
6844	15353534	6894	15511512	6944	15515336	6994	15533314
6845	15353536	6895	15511514	6945	15515361	6995	15533316
6846	15353561	6896	15511516	6946	15515363	6996	15533341
6847	15353563	6897	15511531	6947	15515366	6997	15533344
6848	15353566	6898	15511533	6948	15515611	6998	15533346
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7003	15533513	7053	15551363	7103	15556331	7153	33113366
7004	15533516	7054	15551366	7104	15556333	7154	33113436
7005	15533531	7055	15551621	7105	15556336	7155	33113514
7006	15533534	7056	15551623	7106	15556461	7156	33113516
7007	15533536	7057	15551626	7107	15556463	7157	33113612
7008	15533561	7058	15551641	7108	15556466	7158	33113631
7009	15533563	7059	15551643	7109	15556611	7159	33113634
7010	15533566	7060	15551646	7110	15556613	7160	33113636
7011	15535111	7061	15551662	7111	15556626	7161	33113651
7012	15535113	7062	15551664	7112	15556631	7162	33113653
7013	15535116	7063	15551666	7113	15556633	7163	33114122
7014	15535131	7064	15553111	7114	15556646	7164	33114312
7015	15535133	7065	15553113	7115	15556661	7165	33114331
7016	15535136	7066	15553116	7116	15556663	7166	33114334
7017	15535162	7067	15553131	7117	16211122	7167	33115124
7018	15535164	7068	15553133	7118	16331112	7168	33115126
7019	15535166	7069	15553136	7119	16333111	7169	33115142
7020	15535311	7070	15553162	7120	16333411	7170	33115144
7021	15535313	7071	15553164	7121	16333441	7171	33115146
7022	15535316	7072	15553166	7122	16335556	7172	33115162
7023	15535331	7073	15553311	7123	33111225	7173	33115164
7024	15535334	7074	15553313	7124	33111252	7174	33115166
7025	15535336	7075	15553316	7125	33111254	7175	33115314
7026	15535361	7076	15553331	7126	33111256	7176	33115316
7027	15535363	7077	15553334	7127	33111422	7177	33115336
7028	15535366	7078	15553336	7128	33111424	7178	33115351
7029	15535611	7079	15553361	7129	33111426	7179	33115353
7030	15535613	7080	15553363	7130	33111442	7180	33115355
7031	15535626	7081	15553366	7131	33111462	7181	33115512
7032	15535631	7082	15553611	7132	33111464	7182	33115514
7033	15535633	7083	15553613	7133	33111466	7183	33115516
7034	15535646	7084	15553626	7134	33111622	7184	33115531
7035	15535661	7085	15553631	7135	33111624	7185	33115533
7036	15535663	7086	15553633	7136	33111626	7186	33115535
7037	15535666	7087	15553646	7137	33111642	7187	33115551
7038	15551112	7088	15553661	7138	33111644	7188	33115553
7039	15551114	7089	15553663	7139	33111646	7189	33116212
7040	15551131	7090	15553666	7140	33111662	7190	33116331
7041	15551133	7091	15556111	7141	33111664	7191	33116334
7042	15551136	7092	15556113	7142	33113125	7192	33131125
7043	15551162	7093	15556126	7143	33113142	7193	33131142
7044	15551164	7094	15556131	7144	33113144	7194	33131144
7045	15551166	7095	15556133	7145	33113146	7195	33131146
7046	15551311	7096	15556146	7146	33113162	7196	33131162
7047	15551313	7097	15556261	7147	33113164	7197	33131164
7048	15551316	7098	15556263	7148	33113166	7198	33131166
7049	15551331	7099	15556266	7149	33113314	7199	33131314
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7203	33131366	7253	33136341	7303	33153155	7353	33331411
7204	33131412	7254	33136344	7304	33153314	7354	33331414
7205	33131431	7255	33136346	7305	33153316	7355	33331416
7206	33131434	7256	33136361	7306	33153346	7356	33331441
7207	33131436	7257	33136364	7307	33153361	7357	33331461
7208	33131514	7258	33136366	7308	33153364	7358	33331464
7209	33131516	7259	33136511	7309	33153366	7359	33331466
7210	33131551	7260	33136531	7310	33153511	7360	33331621
7211	33131553	7261	33136534	7311	33153513	7361	33331624
7212	33131555	7262	33136551	7312	33153515	7362	33331626
7213	33131621	7263	33136553	7313	33153531	7363	33331641
7214	33131634	7264	33136555	7314	33153534	7364	33331644
7215	33131636	7265	33141122	7315	33153536	7365	33331646
7216	33133114	7266	33143112	7316	33153551	7366	33331662
7217	33133116	7267	33143311	7317	33153553	7367	33331664
7218	33133141	7268	33143341	7318	33153556	7368	33334414
7219	33133144	7269	33143344	7319	33155112	7369	33334416
7220	33133146	7270	33151124	7320	33155114	7370	33334614
7221	33133162	7271	33151126	7321	33155116	7371	33334626
7222	33133164	7272	33151142	7322	33155131	7372	33336411
7223	33133166	7273	33151144	7323	33155133	7373	33336414
7224	33133414	7274	33151146	7324	33155135	7374	33336416
7225	33133416	7275	33151162	7325	33155151	7375	33336441
7226	33133611	7276	33151164	7326	33155153	7376	33336461
7227	33133614	7277	33151166	7327	33155156	7377	33336464
7228	33133626	7278	33151312	7328	33155311	7378	33336466
7229	33133641	7279	33151314	7329	33155313	7379	33336614
7230	33133644	7280	33151316	7330	33155315	7380	33336626
7231	33133646	7281	33151331	7331	33155331	7381	33336641
7232	33133661	7282	33151334	7332	33155334	7382	33343666
7233	33133664	7283	33151336	7333	33155336	7383	33344364
7234	33133666	7284	33151351	7334	33155351	7384	33351314
7235	33134361	7285	33151353	7335	33155353	7385	33351316
7236	33134364	7286	33151355	7336	33155356	7386	33351361
7237	33134366	7287	33151512	7337	33155511	7387	33351364
7238	33134436	7288	33151514	7338	33155513	7388	33351366
7239	33135114	7289	33151516	7339	33155516	7389	33351411
7240	33135116	7290	33151531	7340	33155531	7390	33351431
7241	33135136	7291	33151533	7341	33155533	7391	33351513
7242	33135141	7292	33151535	7342	33155536	7392	33351515
7243	33135143	7293	33151551	7343	33155561	7393	33351551
7244	33135155	7294	33151553	7344	33155563	7394	33351621
7245	33135162	7295	33151556	7345	33155566	7395	33351634
7246	33135314	7296	33153114	7346	33162112	7396	33351636
7247	33135316	7297	33153116	7347	33163311	7397	33356436
7248	33135514	7298	33153131	7348	33163341	7398	33511125
7249	33135516	7299	33153134	7349	33163344	7399	33511142
7250	33135636	7300	33153136	7350	33331141	7400	33511144

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7403	33511164	7453	33533611	7503	33553114	7553	35151126
7404	33511166	7454	33533661	7504	33553116	7554	35151142
7405	33511314	7455	33533664	7505	33553136	7555	35151144
7406	33511316	7456	33533666	7506	33553141	7556	35151146
7407	33511336	7457	33535114	7507	33553143	7557	35151162
7408	33511361	7458	33535116	7508	33553156	7558	35151164
7409	33511363	7459	33535136	7509	33553162	7559	35151166
7410	33511365	7460	33535141	7510	33553164	7560	35151312
7411	33511412	7461	33535143	7511	33553514	7561	35151314
7412	33511431	7462	33535156	7512	33553516	7562	35151316
7413	33511433	7463	33535162	7513	33553611	7563	35151331
7414	33511514	7464	33535164	7514	33611122	7564	35151333
7415	33511516	7465	33535514	7515	33631112	7565	35151335
7416	33511535	7466	33535516	7516	33633111	7566	35151351
7417	33511551	7467	33536111	7517	33651112	7567	35151353
7418	33511553	7468	33536311	7518	33653111	7568	35151356
7419	33511556	7469	33536341	7519	33655561	7569	35151512
7420	33511621	7470	33536344	7520	33655563	7570	35151514
7421	33511633	7471	33536346	7521	33655566	7571	35151516
7422	33531114	7472	33536361	7522	35131142	7572	35151531
7423	33531116	7473	33536364	7523	35131144	7573	35151533
7424	33531136	7474	33536366	7524	35131146	7574	35151536
7425	33531141	7475	33536511	7525	35131162	7575	35151561
7426	33531155	7476	33536531	7526	35131164	7576	35151563
7427	33531162	7477	33536534	7527	35131166	7577	35151566
7428	33531314	7478	33551114	7528	35131314	7578	35153114
7429	33531316	7479	33551136	7529	35131316	7579	35153116
7430	33531361	7480	33551141	7530	35131336	7580	35153131
7431	33531364	7481	33551143	7531	35131514	7581	35153133
7432	33531366	7482	33551156	7532	35131516	7582	35153135
7433	33531411	7483	33551162	7533	35131525	7583	35153151
7434	33531431	7484	33551164	7534	35131551	7584	35153153
7435	33531434	7485	33551314	7535	35131553	7585	35153156
7436	33531436	7486	33551316	7536	35131556	7586	35153213
7437	33531513	7487	33551336	7537	35133114	7587	35153215
7438	33531515	7488	33551361	7538	35133116	7588	35153336
7439	33531551	7489	33551363	7539	35133136	7589	35153351
7440	33531553	7490	33551365	7540	35133155	7590	35153353
7441	33531556	7491	33551411	7541	35133314	7591	35153356
7442	33531621	7492	33551431	7542	35133316	7592	35153511
7443	33531634	7493	33551433	7543	35133361	7593	35153513
7444	33531636	7494	33551513	7544	35133364	7594	35153516
7445	33533114	7495	33551516	7545	35133366	7595	35153531
7446	33533116	7496	33551536	7546	35135114	7596	35153533
7447	33533141	7497	33551561	7547	35135116	7597	35153536
7448	33533144	7498	33551563	7548	35135156	7598	35153561
7449	33533146	7499	33551566	7549	35135336	7599	35153563
7450	33533162	7500	33551621	7550	35135516	7600	35153566

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7603	35155116	7653	35533366	7703	53111225	7753	53115142
7604	35155131	7654	35533516	7704	53111252	7754	53115144
7605	35155133	7655	35551114	7705	53111254	7755	53115146
7606	35155136	7656	35551136	7706	53111256	7756	53115162
7607	35155162	7657	35551162	7707	53111422	7757	53115164
7608	35155164	7658	35551164	7708	53111424	7758	53115166
7609	35155166	7659	35551166	7709	53111426	7759	53115314
7610	35155311	7660	35551316	7710	53111442	7760	53115316
7611	35155313	7661	35551336	7711	53111444	7761	53115336
7612	35155316	7662	35551361	7712	53111446	7762	53115351
7613	35155331	7663	35551363	7713	53111462	7763	53115353
7614	35155333	7664	35551366	7714	53111464	7764	53115355
7615	35155336	7665	35551621	7715	53111466	7765	53115512
7616	35155361	7666	35551623	7716	53111622	7766	53115514
7617	35155363	7667	35551626	7717	53111624	7767	53115516
7618	35155366	7668	35551641	7718	53111626	7768	53115531
7619	35155611	7669	35551643	7719	53111642	7769	53115533
7620	35155613	7670	35551646	7720	53111644	7770	53115535
7621	35155626	7671	35551662	7721	53111646	7771	53115551
7622	35155631	7672	35551664	7722	53111652	7772	53115553
7623	35155633	7673	35551665	7723	53111664	7773	53115556
7624	35155646	7674	35553116	7724	53111666	7774	53116212
7625	35155661	7675	35553136	7725	53113125	7775	53116331
7626	35155663	7676	35553162	7726	53113142	7776	53116334
7627	35155666	7677	35553164	7727	53113144	7777	53131125
7628	35333114	7678	35553166	7728	53113146	7778	53131142
7629	35333116	7679	35553316	7729	53113162	7779	53131144
7630	35333141	7680	35553336	7730	53113164	7780	53131146
7631	35333144	7681	35553351	7731	53113166	7781	53131162
7632	35333146	7682	35553363	7732	53113314	7782	53131164
7633	35333162	7683	35553366	7733	53113316	7783	53131166
7634	35333164	7684	35553611	7734	53113361	7784	53131314
7635	35333166	7685	35553613	7735	53113364	7785	53131316
7636	35333414	7686	35553626	7736	53113366	7786	53131361
7637	35333416	7687	35553631	7737	53113436	7787	53131364
7638	35333611	7688	35553633	7738	53113514	7788	53131366
7639	35333614	7689	35553646	7739	53113516	7789	53131412
7640	35333626	7690	35553661	7740	53113612	7790	53131431
7641	35333641	7691	35553663	7741	53113631	7791	53131434
7642	35333644	7692	35553666	7742	53113634	7792	53131436
7643	35333646	7693	35556126	7743	53113636	7793	53131514
7644	35333661	7694	35556146	7744	53113651	7794	53131516
7645	35333664	7695	35556261	7745	53113653	7795	53131551
7646	35333666	7696	35556263	7746	53113655	7796	53131553
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7648	35533156	7698	35556316	7748	53114312	7798	53131621
7649	35533314	7699	35556336	7749	53114331	7799	53131634
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REVISION RECORD	DATE	NAME
NAME		

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7804	53133144	7854	53143344	7904	53155112	7954	53355636
7805	53133146	7855	53151124	7905	53155114	7955	53356436
7806	53133162	7856	53151126	7906	53155116	7956	53365511
7807	53133164	7857	53151142	7907	53155131	7957	53365531
7808	53133166	7858	53151144	7908	53155133	7958	53365533
7809	53133414	7859	53151146	7909	53155135	7959	53511125
7810	53133416	7860	53151162	7910	53155151	7960	53511142
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REVISION RECORD	DATE	NAME
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8048	53551314	8098	55111624	8148	55131516	8198	55153135
8049	53551316	8099	55111626	8149	55131535	8199	55153151
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	REVISION RECORD	DATE	NAME
NAME			

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REVISION RECORD		DATE
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8438	65355316						
8439	65355361						
8440	65355363						
8441	65355366						
8442	65556626						

REVISION RECORD	DATE	NAME
NAME		

EA09-001

HONDA

5-29-2009

ATTACHMENT Q11

2003 ACCORD English

REDACTED

Request for creation of system description

TEL 028-680-1732
FAX 028-680-1045

Honda Motor Co., Ltd. Saitama Office,
Certification & Regulation Compliance
Division

Requested to [REDACTED]
of Honda Lock Co., Ltd.
Research&Development Department Designing Division

Model 03YM SEAA/SEDA

Title: Request for report on application of new type for Europe

Issued by Saitama Office,
Certification & Regulation Compliance Division
Issue date: 2002/08/27

Request SN.: C4-08-003

Budget

PIC: [REDACTED]

No.	Distributed to	1. Request	2. Purpose	3. Schedule	4. Others
		1. Please create system description of the subject parts below (steering lock) and certificate.			
		Part number	Part name		
		35100-SEA-E110-M1	LOCK ASSY, STEERING		
		35100-SEA-E010-M1	LOCK ASSY, STEERING		
	Saitama Office, Certification & Regulation Copy Compliance Division	2. 03YM SEAA/SEDA	To obtain ECE homologation		
		3. Please send to the PIC by :	2002/09/18		
		4. Contact [REDACTED]	Honda Motor Co., Ltd. Vehicle Certification Dept. Saitama Office, Certification & Regulation Compliance Division TEL: 042-955-5487 (Dial-in) FAX: 042-952-8161		

Recipient Approval

Response

OK

NG

Approved by Checked by Checked by Created by

Response date 2002.9.3

(Informed in advance)

Comment

O.K., accepted.

Route



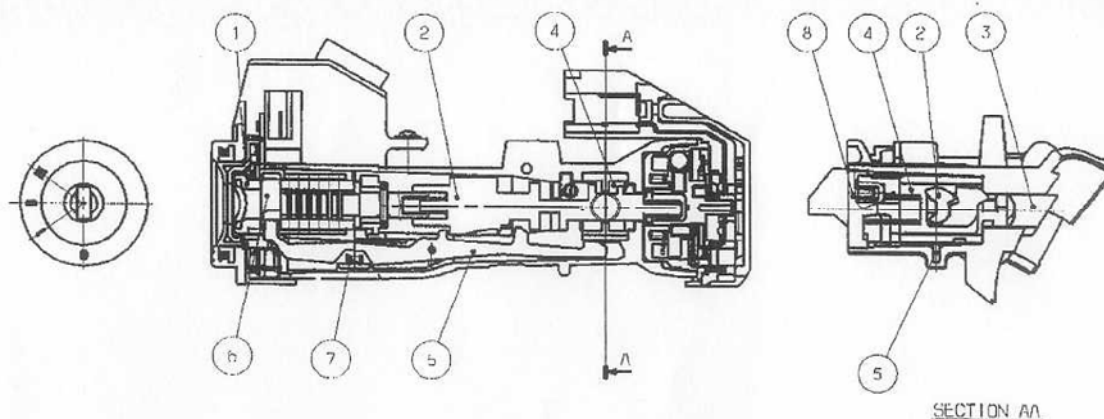
Issue Div / Recipient/ Response/ Return to issue Div.

TECHNICAL DESCRIPTION OF THE DEVICE

LIST OF THE KEY POSITIONS AVAILABLE IN SEQUENCE

SEQUENCE	FUNCTION POSITIONS	KEY INSERT/ WITHDRAW	ANTI-THEFT (STEERING LOCK)	ACCESSORY	IGNITION	SELF STARTER (STARTING MOTOR)
1	withdraw	—	locked	off	off	off
2	insert O (LOCK)	possible	locked	off	off	off
3	I (ACC)	impossible	unlocked	on	off	off
4	II (ON)	impossible	unlocked	on	on	off
5	III (START)	impossible	unlocked	off	on	on
6	II (ON)	impossible	unlocked	on	on	off
7	push I (ACC)	impossible	unlocked	on	off	off
8	O (LOCK)	possible	unlocked	off	off	off
9	withdrawn	—	locked	off	off	off

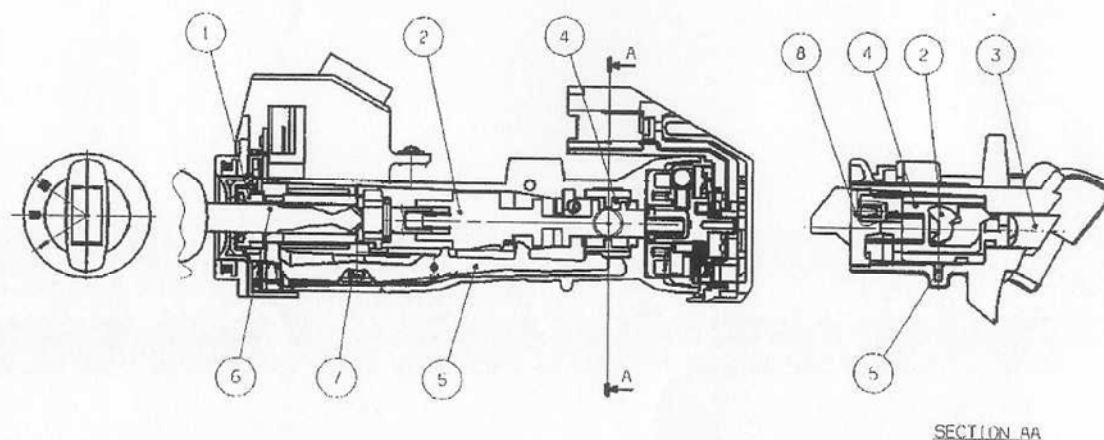
1 Step 1 "0" Position (with key removed)



In this position the spring 8 is expanded and the end of the lock pin 3 engages the recess formed in the steering shaft to prevent the rotation.

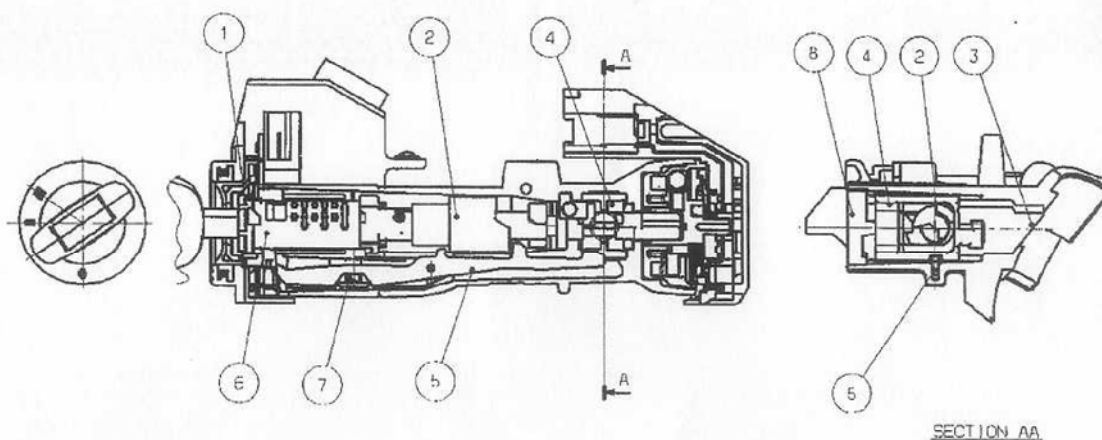
Further the forward end of the stopper plate 5 lifts up the key slider 6 by the force of the spring 7 whereby the key slider 6 enters into the key slot.

2 Step 2 "0" Position (with key inserted)



When the key inserted into the key slot, the back of the key pushes the key slider 6 and away from the key slot whereby the key slider 6 pushes down the forward end of the stopper plate 5 to compress the spring 7, whereby the backward the end of the stopper plate 5 presses against the lower side of the slider 4.

3 Step 3 "I" Position

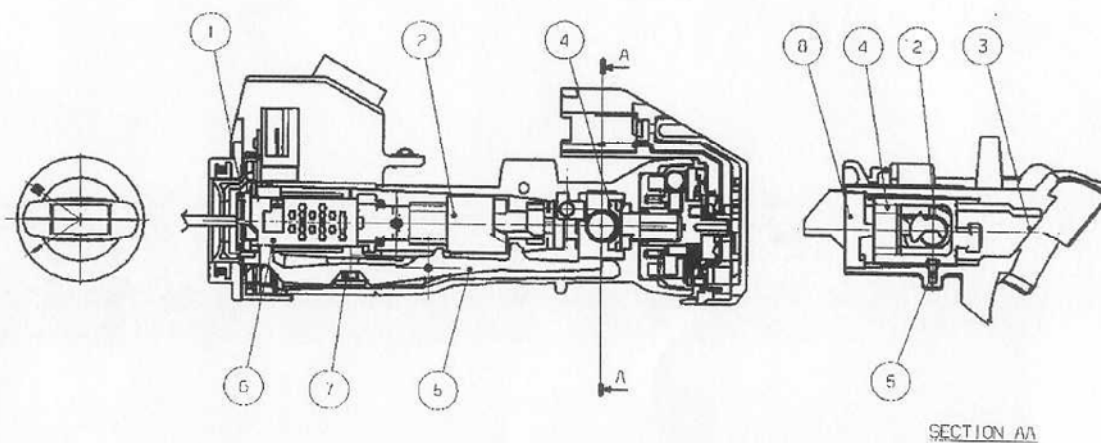


38.5

When the key is turn from "0" to "I", the semicylindrical cam of the joint inner 2 is rotated simultaneously and lifts up the slider 4, and withdraws the lock pin 3 from the steering shaft recess.

On the other hand the backward end of the stopper plate snaps into the recess of the slider 4 so as to retain the same position untill the key is completely withdrawn from the key slot whereby accidental locking of steering can be avoided.

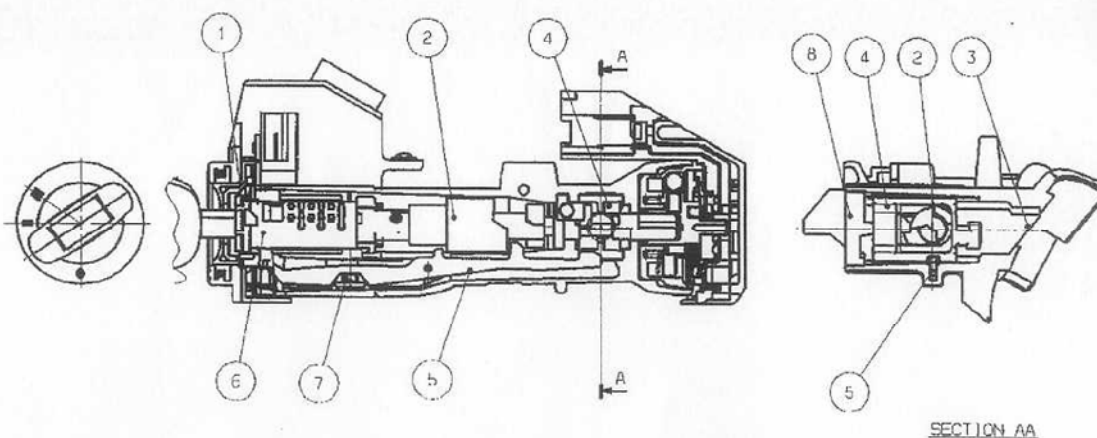
4 Step 4 "II" Position



4

When the key is turned from "I" to "II" or "III", the stopper plate 5 and the lock pin 3 keep in same position since the forward end of the stopper plate 5 is on the surface of the inner cylinder 1 and the inside wall of the slider 4 is on the semicylindrical cam of the joint inner 2.

5 Step 5 "I" Position

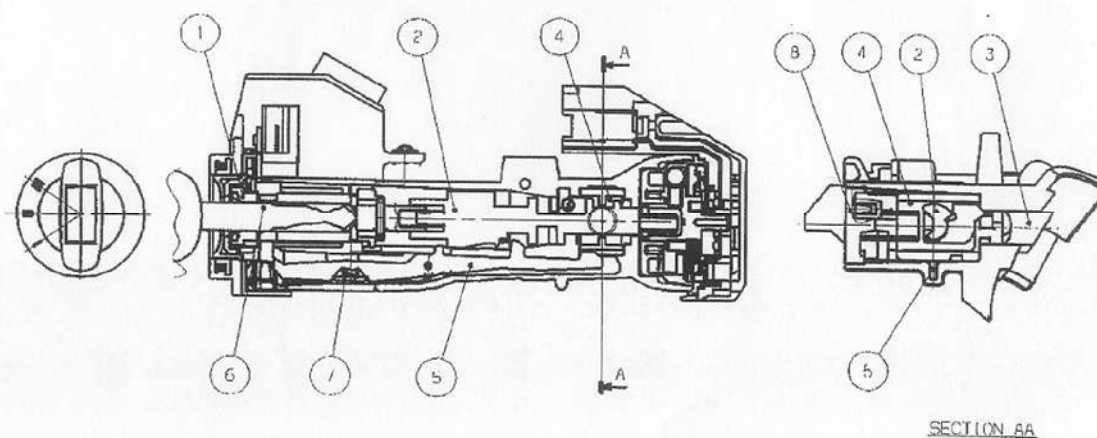


38.5

When the key is turned counterclockwise direction from "II" to "I", the stopper plate 5 and lock pin 3 keep in the same condition.

But the key should be pushed at the "I" position so as to turn back from "I" to "O".

6 Step 6 "O" Position(with key insert)



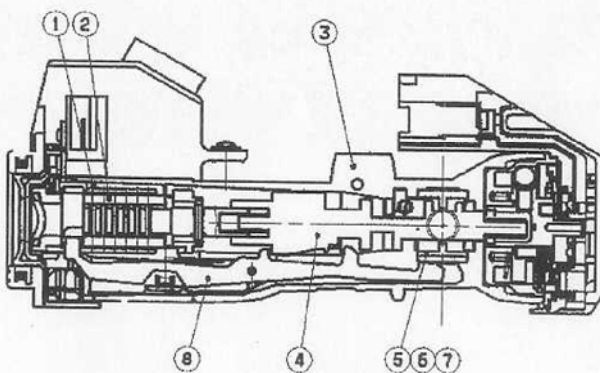
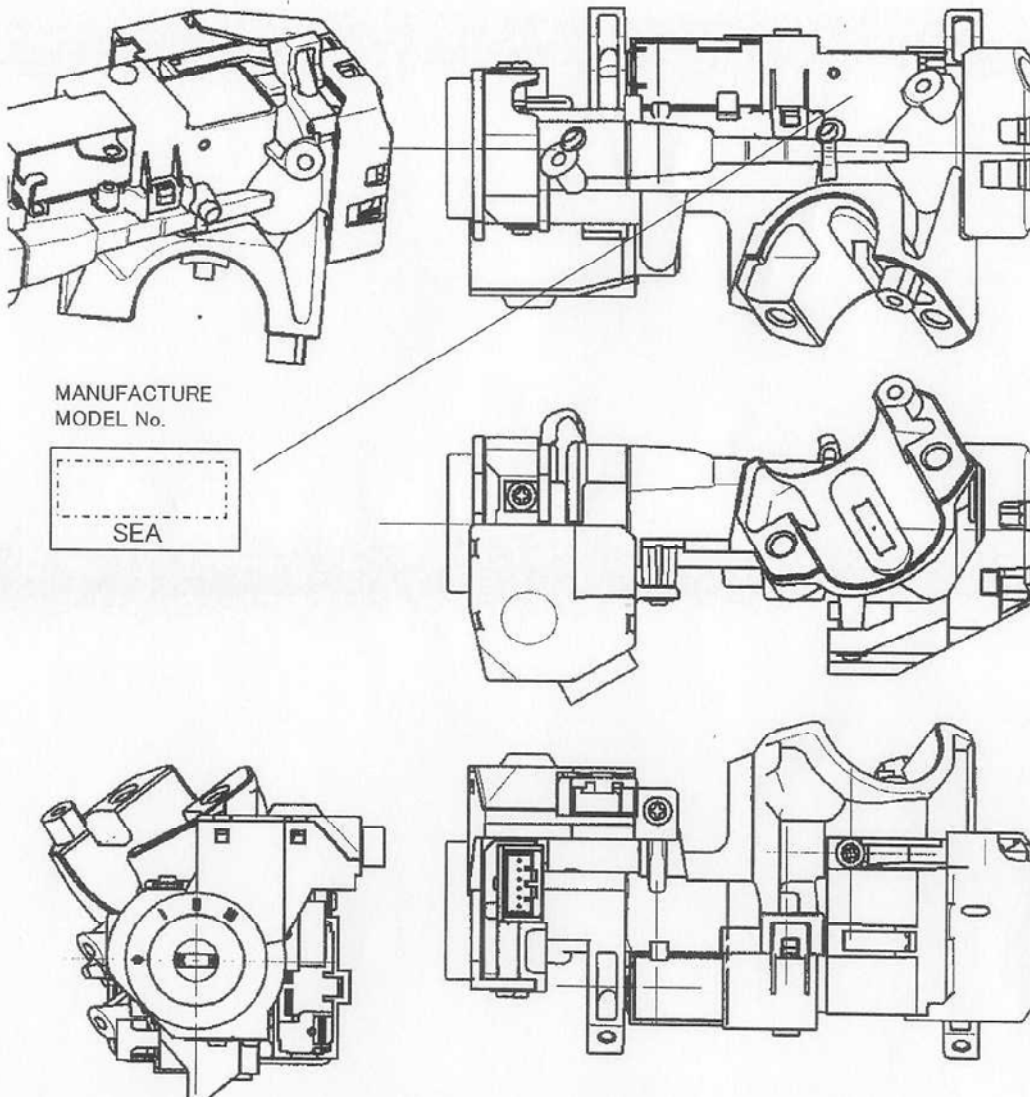
2

When the key is turned to "O" after pushing at the "I" position, the slider 4 is free from the inner joint cam.

But slider 4 remains in its position since the backward end of the stopper plate 5 engages the lower side recess of the slider 4.

Only upon almost complete withdrawal of the key is it made possible for the key slider 6 to enter into the key slot and the stopper plate 5 swings clockwise direction, whereupon the backward end of the stopper plate 5 frees the slider 4 and thereby the lock pin 3.

As a result of it, the lock pin 3 moves down by the force of the spring 8 and engages the steering shaft recess.



NO.	NAME	QTY	MATERIAL
1	CYLINDER	1	Zn ALLOY
2	INNER	1	Zn ALLOY
3	BODY	1	Mg ALLOY
4	JOINT INNER	1	Zn ALLOY
5	LOCK PIN	1	SC
6	BODY COVER	1	Zn ALLOY
7	SLIDER	1	Zn ALLOY
8	STOPPER PLATE	1	SP

	TITLE	VEHICLE TYPE
	STEERING LOCK CONSTRUCTION	NO.
ISS. DATE		

95/56/EC

CERTIFICATION OF STEERING LOCK GENERAL SPECIFICATIONS

Vehicle Make : HONDA

I certify herewith that the steering locks below mentioned possess more than 1,000 Key combinations and are satisfactorily in line with paragraph 3.6 of Annex IV in EC directive as follows;

3.6 Mechanical locking systems shall provide at least 1,000 different key combinations or a number equal to the total number of vehicles manufactured annually if less than 1,000. In vehicles of one type the frequency of occurrence of each combination shall be roughly one per 1,000.

Steering Lock Manufacturer : HONDA LOCK MFG. CO. , LTD.

Steering Lock Model No. : SEA

Signed :

Name :

Title : Chief Engineer

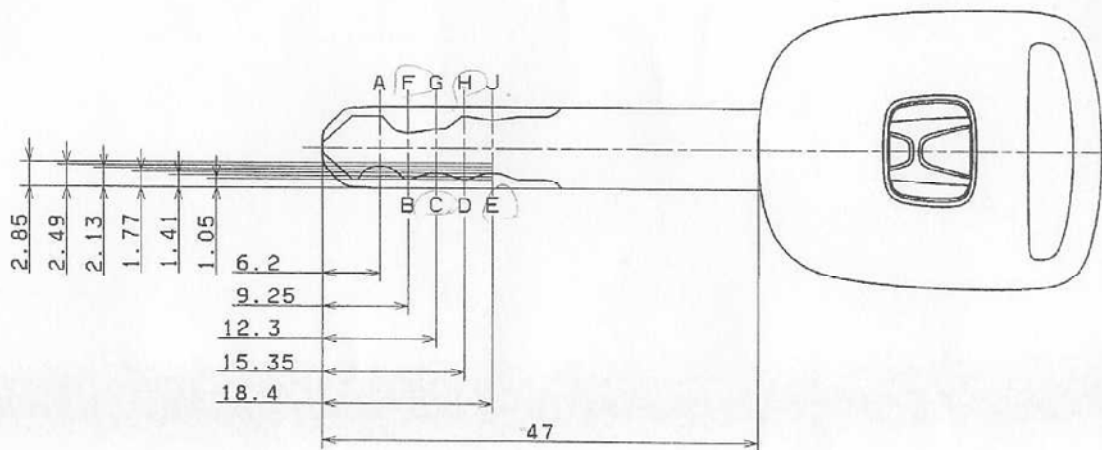
Date : 17. SEP. , '02

For and on behalf of HONDA LOCK MFG. CO. , LTD.

Interpretation of Key No. List

(1) Interpretation

Example ; Interpretation of Code No. K091 Cutting 113136512.



Depth from key end cuts have six dimensions ;

- 1; Depth from key end cuts that measures 1.05 mm
- 2; Depth from key end cuts that measures 1.41 mm
- 3; Depth from key end cuts that measures 1.77 mm
- 4; Depth from key end cuts that measures 2.13 mm
- 5; Depth from key end cuts that measures 2.49 mm
- 6; Depth from key end cuts that measures 2.65 mm

Therefore, as cuts become deeper, Cutting No. will be larger.

Cutting 113136512 will be read from the Position A to Position J in Fig. 1 in this order, where the first digit represents the Depth at Position A in Fig. 1 (Depth from key end cuts in this case) and the fourth digit of cutting No. 3, for instance, represents the Depth from key end cuts at Position C in Fig. 1 (1.77 mm)

(2) 3718 Different Keys

This Key covers 3718 different combinations from Code No. K001 to Code No. N718.

CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING
K001	1112312321	K051	1126311421	K101	1133315321	K151	1151314221
K002	1112312521	K052	1126312621	K102	1133326521	K152	1151314421
K003	1112314221	K053	1126313121	K103	1133131221	K153	1151314621
K004	1112314421	K054	1126314521	K104	1133131421	K154	1151326221
K005	1112314621	K055	1126215121	K105	1133132621	K155	1151326421
K006	1112326211	K056	1126215321	K106	1133134121	K156	1151326621
K007	1112326421	K057	1126226511	K107	1133134421	K157	1151331221
K008	1112326621	K058	1126231121	K108	1133134621	K158	1151331421
K009	1112331421	K059	1126231521	K109	1133136221	K159	1151332621
K010	1112332621	K060	1126233321	K110	1133146421	K160	1151133121
K011	1112334521	K061	1126233521	K111	1133146621	K161	1151133321
K012	1112345121	K062	1126235121	K112	1133151121	K162	1151334521
K013	1112345321	K063	1126245521	K113	1133151321	K163	1151345121
K014	1112346521	K064	1126251121	K114	1133151521	K164	1151345321
K015	1112351221	K065	1126251321	K115	1133153121	K165	1151346521
K016	1112351421	K066	1126251521	K116	1133153421	K166	1151351221
K017	1112352621	K067	1126265521	K117	1133153621	K167	1151351421
K018	1112353121	K068	1131312221	K118	1133155121	K168	1151352621
K019	1112353321	K069	1131312421	K119	1133165321	K169	1151353121
K020	1112354521	K070	1131312621	K120	1133165521	K170	1151353321
K021	1112365121	K071	1131314221	K121	1145311221	K171	1151354521
K022	1112365321	K072	1131314421	K122	1145311421	K172	1151365121
K023	1112366521	K073	1131314621	K123	1145312621	K173	1151365321
K024	1114312221	K074	1131326221	K124	1145313121	K174	1151366521
K025	1114312421	K075	1131326421	K125	1145313321	K175	1153311221
K026	1114312621	K076	1131326621	K126	1145314521	K176	1153311421
K027	1114314221	K077	1131331421	K127	1145315121	K177	1153312621
K028	1114314521	K078	1131332621	K128	1145315321	K178	1153313121
K029	1114326221	K079	1131133221	K129	1145326521	K179	1153313321
K030	1114326421	K080	1131133421	K130	1145331121	K180	1153314521
K031	1114326621	K081	1131334621	K131	1145331321	K181	1153315121
K032	1114331221	K082	1131345121	K132	1145331521	K182	1153315321
K033	1114331421	K083	1131345321	K133	1145133121	K183	1153326521
K034	1114332621	K084	1131346521	K134	1145133321	K184	1153331121
K035	1114133121	K085	1131351221	K135	1145133521	K185	1153331321
K036	1114133321	K086	1131351421	K136	1145335121	K186	1153331521
K037	1114334521	K087	1131352621	K137	1145335321	K187	1153133121
K038	1114345121	K088	1131353121	K138	1145345521	K188	1153133421
K039	1114345321	K089	1131353321	K139	1145351121	K189	1153133621
K040	1114346521	K090	1131354521	K140	1145351321	K190	1153335121
K041	1114351221	K091	1131365121	K141	1145351521	K191	1153135321
K042	1114351421	K092	1131365321	K142	1145353121	K192	1153345521
K043	1114352621	K093	1131366521	K143	1145353321	K193	1153351121
K044	1114353121	K094	1133311221	K144	1145353521	K194	1153351321
K045	1114353321	K095	1133311421	K145	1145355121	K195	1153351521
K046	1114354521	K096	1133312621	K146	1145355321	K196	1153353121
K047	1114365121	K097	1133313221	K147	1145365521	K197	1153353321
K048	1114365321	K098	1133313421	K148	1151312221	K198	1153353521
K049	1114366521	K099	1133314621	K149	1151312421	K199	1153355121
K050	1126311221	K100	1133315121	K150	1151312621	K200	1153355321

CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING
K201	1153365521	K251	1313312621	K301	1331311421	K351	1336213421
K202	1265311121	K252	1313113221	K302	1331312621	K352	1336213621
K203	1265311321	K253	1313113421	K303	1331113221	K353	1336215121
K204	1265311521	K254	1313314621	K304	1331113421	K354	1336215321
K205	1265313121	K255	1313315121	K305	1331314621	K355	1336215521
K206	1265313321	K256	1313115321	K306	1331315121	K356	1336231121
K207	1265313521	K257	1313326521	K307	1331115321	K357	1336231421
K208	1265315121	K258	1313131421	K308	1331126521	K358	1336232621
K209	1265315321	K259	1313132621	K309	1331131421	K359	1336234121
K210	1265315521	K260	1313134621	K310	1331132621	K360	1336234421
K211	1265331121	K261	1313136221	K311	1331134621	K361	1336234621
K212	1265331321	K262	1313346421	K312	1331136221	K362	1336236221
K213	1265331521	K263	1313346621	K313	1331146421	K363	1336236421
K214	1265133121	K264	1313351121	K314	1331146621	K364	1336246621
K215	1265133321	K265	1313151321	K315	1331151121	K365	1336251121
K216	1265133521	K266	1313351521	K316	1331151321	K366	1336251321
K217	1265335121	K267	1313153121	K317	1331151521	K367	1336251521
K218	1265335521	K268	1313153421	K318	1331153121	K368	1336253121
K219	1265351121	K269	1313153621	K319	1331153421	K369	1336253421
K220	1265351321	K270	1313155121	K320	1331153621	K370	1336253621
K221	1265351521	K271	1313165321	K321	1331155121	K371	1336255121
K222	1265353121	K272	1313365521	K322	1331165321	K372	1336255321
K223	1265353321	K273	1315311221	K323	1331165521	K373	1336265521
K224	1265353521	K274	1315311421	K324	1334111321	K374	1351111221
K225	1265355121	K275	1315312621	K325	1334111521	K375	1351111421
K226	1265355321	K276	1315313121	K326	1334113121	K376	1351112621
K227	1265355621	K277	1315113321	K327	1334113421	K377	1351113121
K228	1311312421	K278	1315314521	K328	1334113621	K378	1351113321
K229	1311312621	K279	1315315121	K329	1334115121	K379	1351314521
K230	1311314221	K280	1315315321	K330	1334115321	K380	1351315121
K231	1311314421	K281	1315326521	K331	1334115521	K381	1351315321
K232	1311314621	K282	1315131121	K332	1334131421	K382	1351326521
K233	1311326221	K283	1315131321	K333	1334132621	K383	1351331121
K234	1311326421	K284	1315131521	K334	1334134521	K384	1351131321
K235	1311326621	K285	1315133121	K335	1334136221	K385	1351331521
K236	1311331421	K286	1315133421	K336	1334136421	K386	1351133121
K237	1311332621	K287	1315133621	K337	1334136621	K387	1351133421
K238	1311234621	K288	1315135121	K338	1334151121	K388	1351133621
K239	1311245121	K289	1315135321	K339	1334151321	K389	1351335121
K240	1311245321	K290	1315145521	K340	1334151521	K390	1351135321
K241	1311251221	K291	1315151121	K341	1334153121	K391	1351345521
K242	1311251421	K292	1315151321	K342	1334153421	K392	1351351121
K243	1311252621	K293	1315151521	K343	1334153621	K393	1351351321
K244	1311253121	K294	1315153121	K344	1334155121	K394	1351351521
K245	1311253321	K295	1315153321	K345	1334155321	K395	1351353121
K246	1311254521	K296	1315153521	K346	1334155521	K396	1351353321
K247	1311265121	K297	1315155121	K347	1336211121	K397	1351353521
K248	1311265321	K298	1315155321	K348	1336211321	K398	1351355121
K249	1311266521	K299	1315165521	K349	1336211521	K399	1351355321
K250	1313311421	K300	1331311221	K350	1336213121	K400	1351365521

CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING
K401	1353311121	K451	1455356421	K501	1513153321	K551	1531355121
K402	1353111321	K452	1455356621	K502	1513353521	K552	1531355321
K403	1353311521	K453	1511212211	K503	1513355121	K553	1531365521
K404	1353113121	K454	1511212421	K504	1513355321	K554	1533311121
K405	1353113421	K455	1511212621	K505	1513365521	K555	1533111321
K406	1353113621	K456	1511214221	K506	1515311221	K556	1533311521
K407	1353315121	K457	1511214421	K507	1515311421	K557	1533113121
K408	1353115321	K458	1511214621	K508	1515312621	K558	1533113421
K409	1353315521	K459	1511226211	K509	1515313121	K559	1533113621
K410	1353131121	K460	1511226421	K510	1515313321	K560	1533315121
K411	1353131421	K461	1511226621	K511	1515314521	K561	1533115321
K412	1353132621	K462	1511231221	K512	1515326421	K562	1533315521
K413	1353134121	K463	1511231421	K513	1515326621	K563	1533131121
K414	1353134421	K464	1511232621	K514	1515331121	K564	1533131421
K415	1353134621	K465	1511233121	K515	1515331321	K565	1533132621
K416	1353136221	K466	1511233321	K516	1515333121	K566	1533134121
K417	1353136421	K467	1511234521	K517	1515133321	K567	1533134421
K418	1353136621	K468	1511245121	K518	1515333521	K568	1533134621
K419	1353151121	K469	1511245321	K519	1515345321	K569	1533136221
K420	1353151321	K470	1511251221	K520	1515345621	K570	1533136421
K421	1353151521	K471	1511251421	K521	1515351221	K571	1533136621
K422	1353153121	K472	1511252621	K522	1515353121	K572	1533351121
K423	1353153421	K473	1511253121	K523	1515353321	K573	1533151321
K424	1353153621	K474	1511253321	K524	1515364521	K574	1533351521
K425	1353155121	K475	1511254521	K525	1515365121	K575	1533153121
K426	1353155421	K476	1511265121	K526	1515365321	K576	1533153421
K427	1353155621	K477	1511265321	K527	1515366521	K577	1533153621
K428	1455311121	K478	1511266521	K528	1531311221	K578	1533355121
K429	1455311321	K479	1513311221	K529	1531311421	K579	1533355421
K430	1455311521	K480	1513311421	K530	1531312621	K580	1533355621
K431	1455313121	K481	1513312621	K531	1531313121	K581	1535311121
K432	1455313521	K482	1513313121	K532	1531113321	K582	1535311321
K433	1455315121	K483	1513313321	K533	1531314521	K583	1535311521
K434	1455315321	K484	1513314521	K534	1531315121	K584	1535313121
K435	1455315621	K485	1513315121	K535	1531315321	K585	1535113321
K436	1455331121	K486	1513315321	K536	1531331121	K586	1535313521
K437	1455331321	K487	1513326521	K537	1531131321	K587	1535315121
K438	1455331521	K488	1513331121	K538	1531331521	K588	1535315321
K439	1455133321	K489	1513131321	K539	1531133121	K589	1535315621
K440	1455333521	K490	1513331521	K540	1531133421	K590	1535331121
K441	1455335121	K491	1513133121	K541	1531133621	K591	1535331321
K442	1455335321	K492	1513133421	K542	1531335121	K592	1535331521
K443	1455335621	K493	1513133621	K543	1531135321	K593	1535133121
K444	1455351121	K494	1513135121	K544	1531345521	K594	1535133421
K445	1455351321	K495	1513335321	K545	1531351121	K595	1535133621
K446	1455352621	K496	1513345521	K546	1531351321	K596	1535335121
K447	1455353121	K497	1513351121	K547	1531351521	K597	1535335421
K448	1455353321	K498	1513351321	K548	1531353121	K598	1535335621
K449	1455354621	K499	1513351521	K549	1531153321	K599	1535351121
K450	1455356221	K500	1513353121	K550	1531353521	K600	1535351321

CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING
K601	1535352621	K651	1553335621	K701	2112352621	K751	2126265521
K602	1535353121	K652	1553351121	K702	2112353121	K752	2131312421
K603	1535353421	K653	1553351321	K703	2112353321	K753	2131312621
K604	1535354621	K654	1553352621	K704	2112354521	K754	2131314421
K605	1535356221	K655	1553353121	K705	2112365121	K755	2131314621
K606	1535356421	K656	1553353421	K706	2112365321	K756	2131326221
K607	1535356621	K657	1553354621	K707	2112366521	K757	2131326421
K608	1551311221	K658	1553356221	K708	2114312221	K758	2131326621
K609	1551311421	K659	1553356421	K709	2114312421	K759	2131331421
K610	1551312621	K660	1553356621	K710	2114312621	K760	2131332621
K611	1551313121	K661	1655311121	K711	2114314221	K761	2131334621
K612	1551313321	K662	1655311321	K712	2114314521	K762	2131345121
K613	1551314521	K663	1655311521	K713	2114326221	K763	2131345321
K614	1551315221	K664	1655313121	K714	2114326421	K764	2131346521
K615	1551326621	K665	1655313521	K715	2114326621	K765	2131351221
K616	1551331121	K666	1655315121	K716	2114331221	K766	2131351421
K617	1551331321	K667	1655315321	K717	2114331421	K767	2131352621
K618	1551331521	K668	1655315621	K718	2114332621	K768	2131353121
K619	1551333121	K669	1655331121	K719	2114333121	K769	2131153321
K620	155133321	K670	1655331321	K720	2114333321	K770	2131354521
K621	1551333521	K671	1655331521	K721	2114334521	K771	2131365121
K622	1551335121	K672	1655333321	K722	2114345121	K772	2131365321
K623	1551345321	K673	1655333521	K723	2114345321	K773	2131366521
K624	1551345621	K674	1655335121	K724	2114346521	K774	2133111421
K625	1551351221	K675	1655335321	K725	2114351221	K775	2133112621
K626	1551351421	K676	1655335621	K726	2114351421	K776	2133113421
K627	1551352621	K677	1655351121	K727	2114352621	K777	2133114621
K628	1551353121	K678	1655351321	K728	2114353121	K778	2133115121
K629	1551353321	K679	1655352621	K729	2114353321	K779	2133115321
K630	1551364521	K680	1655353121	K730	2114354521	K780	2133126521
K631	1551365121	K681	1655353321	K731	2114365121	K781	2133131421
K632	1551365321	K682	1655354621	K732	2114365321	K782	2133132621
K633	1551366521	K683	1655356221	K733	2114366521	K783	2133134621
K634	1553311121	K684	1655356421	K734	2126211211	K784	2133136221
K635	1553311321	K685	2112312521	K735	2126211421	K785	2133146421
K636	1553311521	K686	2112314221	K736	2126212611	K786	2133146621
K637	1553313121	K687	2112314421	K737	2126213121	K787	2133151121
K638	1553113321	K688	2112314621	K738	2126214521	K788	2133151321
K639	1553313521	K689	2112326211	K739	2126215121	K789	2133151521
K640	1553315121	K690	2112326421	K740	2126215321	K790	2133153121
K641	1553315321	K691	2112326621	K741	2126226511	K791	2133153421
K642	1553315621	K692	2112331421	K742	2126231121	K792	2133153621
K643	1553331121	K693	2112332621	K743	2126231521	K793	2133155121
K644	1553131321	K694	2112333121	K744	2126233321	K794	2133165321
K645	1553331521	K695	2112333321	K745	2126233521	K795	2133165521
K646	1553133121	K696	2112345121	K746	2126235121	K796	2145311221
K647	1553133421	K697	2112345321	K747	2126245521	K797	2145311421
K648	1553133621	K698	2112346521	K748	2126251121	K798	2145312621
K649	1553335121	K699	2112351221	K749	2126251321	K799	2145313121
K650	1553335421	K700	2112351421	K750	2126251521	K800	2145313321

CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING
K801	2145314521	K851	2153311421	K901	2265355321	K951	2315313121
K802	2145315121	K852	2153312621	K902	2265355621	K952	2315113321
K803	2145315321	K853	2153313121	K903	2311212421	K953	2315314521
K804	2145326521	K854	2153113321	K904	2311212621	K954	2315315121
K805	2145331121	K855	2153314521	K905	2311214621	K955	2315315321
K806	2145331321	K856	2153315121	K906	2311226211	K956	2315326521
K807	2145331521	K857	2153315321	K907	2311226421	K957	2315331121
K808	2145333121	K858	2153326521	K908	2311226621	K958	2315131321
K809	2145133321	K859	2153131121	K909	2311231221	K959	2315131521
K810	2145333521	K860	2153131321	K910	2311231421	K960	2315133121
K811	2145335121	K861	2153131521	K911	2311232621	K961	2315133421
K812	2145335321	K862	2153133121	K912	2311233221	K962	2315133621
K813	2145345521	K863	2153133421	K913	2311233421	K963	2315135121
K814	2145351121	K864	2153133621	K914	2311234621	K964	2315135321
K815	2145351321	K865	2153135121	K915	2311245121	K965	2315345521
K816	2145351521	K866	2153135321	K916	2311245321	K966	2315351121
K817	2145353121	K867	2153145521	K917	2311251221	K967	2315351321
K818	2145353321	K868	2153151121	K918	2311251421	K968	2315351521
K819	2145353521	K869	2153151321	K919	2311252621	K969	2315353121
K820	2145355121	K870	2153151521	K920	2311253121	K970	2315153321
K821	2145355321	K871	2153153121	K921	2311253321	K971	2315353521
K822	2145365521	K872	2153153321	K922	2311254521	K972	2315355121
K823	2151312221	K873	2153153521	K923	2311265121	K973	2315355321
K824	2151312421	K874	2153155121	K924	2311265321	K974	2315365521
K825	2151312621	K875	2153155321	K925	2311266521	K975	2331311421
K826	2151314221	K876	2153165521	K926	2313311421	K976	2331112621
K827	2151314421	K877	2265311121	K927	2313312621	K977	2331113421
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K829	2151326221	K879	2265311521	K929	2313314621	K979	2331115121
K830	2151326421	K880	2265313121	K930	2313315121	K980	2331115321
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K836	2151133321	K886	2265331121	K936	2313136221	K986	2331146421
K837	2151334521	K887	2265331321	K937	2313346421	K987	2331146621
K838	2151345121	K888	2265331521	K938	2313346621	K988	2331151121
K839	2151345321	K889	2265333121	K939	2313351121	K989	2331151321
K840	2151346521	K890	2265133321	K940	2313151321	K990	2331151521
K841	2151351221	K891	2265333521	K941	2313151521	K991	2331153121
K842	2151351421	K892	2265335121	K942	2313153121	K992	2331153421
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K848	2151365321	K898	2265353321	K948	2315311221	K998	2334111521
K849	2151366521	K899	2265353521	K949	2315311421	K999	2334113421
K850	2153311221	K900	2265355121	K950	2315312621	L000	2334113621

CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING	CODE NO.	CUTTING
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L003	2334115521	L053	2351131321	L103	2455133321	L153	2513131321
L004	2334131421	L054	2351131521	L104	2455133521	L154	2513131521
L005	2334132621	L055	2351133121	L105	2455335121	L155	2513133121
L006	2334134521	L056	2351133421	L106	2455135321	L156	2513133421
L007	2334136221	L057	2351133621	L107	2455335621	L157	2513133621
L008	2334136421	L058	2351135121	L108	2455351121	L158	2513135121
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L010	2334151121	L060	2351345521	L110	2455352621	L160	2513145521
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L015	2334153621	L065	2351153321	L115	2455356421	L165	2513153321
L016	2334155121	L066	2351153521	L116	2455356621	L166	2513153521
L017	2334155321	L067	2351355121	L117	2511212211	L167	2513155121
L018	2334155521	L068	2351155321	L118	2511212421	L168	2513155321
L019	2336211121	L069	2351365521	L119	2511212621	L169	2513165521
L020	2336211321	L070	2353311121	L120	2511214221	L170	2515311221
L021	2336211521	L071	2353111321	L121	2511214421	L171	2515311421
L022	2336213121	L072	2353111521	L122	2511214621	L172	2515312621
L023	2336213421	L073	2353113421	L123	2511226211	L173	2515313121
L024	2336213621	L074	2353113621	L124	2511226421	L174	2515113321
L025	2336215121	L075	2353115121	L125	2511226621	L175	2515314521
L026	2336215321	L076	2353115321	L126	2511231221	L176	2515326421
L027	2336215521	L077	2353115521	L127	2511231421	L177	2515326621
L028	2336231121	L078	2353131421	L128	2511232621	L178	2515331121
L029	2336231421	L079	2353132621	L129	2511233121	L179	2515131321
L030	2336232621	L080	2353134621	L130	2511233321	L180	2515133121
L031	2336234121	L081	2353136221	L131	2511234521	L181	2515133321
L032	2336234421	L082	2353136421	L132	2511245121	L182	2515133521
L033	2336234621	L083	2353136621	L133	2511245321	L183	2515345321
L034	2336236221	L084	2353151121	L134	2511251221	L184	2515345621
L035	2336236421	L085	2353151321	L135	2511251421	L185	2515351221
L036	2336246621	L086	2353151521	L136	2511252621	L186	2515353121
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L040	2336253121	L090	2353155121	L140	2511265121	L190	2515365321
L041	2336253421	L091	2353155421	L141	2511265321	L191	2515366521
L042	2336253621	L092	2353155621	L142	2511266521	L192	2531111221
L043	2336255121	L093	2455311321	L143	2513311221	L193	2531111421
L044	2336255321	L094	2455311521	L144	2513311421	L194	2531112621
L045	2336265521	L095	2455313121	L145	2513312621	L195	2531113121
L046	2351311421	L096	2455313521	L146	2513313121	L196	2531113321
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L048	2351314521	L098	2455315321	L148	2513314521	L198	2531115121
L049	2351315121	L099	2455315621	L149	2513115121	L199	2531115321
L050	2351315321	L100	2455331121	L150	2513115321	L200	2531131121

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L203	2531133121	L253	2535315621	L303	2553113521	L353	1112314641
L204	2531133421	L254	2535331121	L304	2553115121	L354	1112326241
L205	2531133621	L255	2535131321	L305	2553115321	L355	1112326441
L206	2531135121	L256	2535131521	L306	2553115621	L356	1112326641
L207	2531135321	L257	2535133121	L307	2553131121	L357	1112331441
L208	2531145521	L258	2535133421	L308	2553131321	L358	1112332641
L209	2531151121	L259	2535133621	L309	2553131521	L359	1112334541
L210	2531151321	L260	2535135121	L310	2553133121	L360	1112345141
L211	2531151521	L261	2535135421	L311	2553133421	L361	1112345341
L212	2531153121	L262	2535135621	L312	2553133621	L362	1112346541
L213	2531153321	L263	2535151121	L313	2553135121	L363	1112351241
L214	2531153521	L264	2535151321	L314	2553135421	L364	1112351441
L215	2531155121	L265	2535152621	L315	2553135621	L365	1112352641
L216	2531155321	L266	2535153121	L316	2553151121	L366	1112353141
L217	2531165521	L267	2535153421	L317	2553151321	L367	1112353341
L218	2533111121	L268	2535154621	L318	2553152621	L368	1112354541
L219	2533111321	L269	2535156221	L319	2553153121	L369	1112365141
L220	2533111521	L270	2535156421	L320	2553153421	L370	1112365341
L221	2533113121	L271	2535156621	L321	2553154621	L371	1112366541
L222	2533113421	L272	2551311221	L322	2553156221	L372	1114312241
L223	2533113621	L273	2551311421	L323	2553156421	L373	1114312441
L224	2533115121	L274	2551312621	L324	2553156621	L374	1114312641
L225	2533115321	L275	2551313121	L325	2655311121	L375	1114314241
L226	2533115521	L276	2551113321	L326	2655311321	L376	1114314541
L227	2533131121	L277	2551314521	L327	2655311521	L377	1114326241
L228	2533131421	L278	2551315221	L328	2655313121	L378	1114326441
L229	2533132621	L279	2551326621	L329	2655313521	L379	1114326641
L230	2533134121	L280	2551331121	L330	2655315121	L380	1114331241
L231	2533134421	L281	2551131321	L331	2655315321	L381	1114331441
L232	2533134621	L282	2551131521	L332	2655315621	L382	1114332641
L233	2533136221	L283	2551133121	L333	2655331121	L383	1114133141
L234	2533136421	L284	2551133321	L334	2655331321	L384	1114133341
L235	2533136621	L285	2551133521	L335	2655331521	L385	1114334541
L236	2533151121	L286	2551135121	L336	2655133321	L386	1114345141
L237	2533151321	L287	2551345321	L337	2655133521	L387	1114345341
L238	2533151521	L288	2551345621	L338	2655135121	L388	1114346541
L239	2533153121	L289	2551351221	L339	2655135321	L389	1114351241
L240	2533153421	L290	2551351421	L340	2655135621	L390	1114351441
L241	2533153621	L291	2551352621	L341	2655351121	L391	1114352641
L242	2533155121	L292	2551353121	L342	2655351321	L392	1114353141
L243	2533155421	L293	2551153321	L343	2655352621	L393	1114353341
L244	2533155621	L294	2551364521	L344	2655353121	L394	1114354541
L245	2535311121	L295	2551365121	L345	2655353321	L395	1114365141
L246	2535311321	L296	2551365321	L346	2655354621	L396	1114365341
L247	2535311521	L297	2551366521	L347	2655356221	L397	1114366541
L248	2535313121	L298	2553311121	L348	2655356421	L398	1126311241
L249	2535113321	L299	2553311321	L349	1112312341	L399	1126311441
L250	2535113521	L300	2553311521	L350	1112312541	L400	1126312641

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L403	1126215141	L453	1133132641	L503	1151326441	L553	1265313141
L404	1126215341	L454	1133134141	L504	1151326641	L554	1265313341
L405	1126226541	L455	1133134441	L505	1151331241	L555	1265313541
L406	1126231141	L456	1133134641	L506	1151331441	L556	1265315141
L407	1126231541	L457	1133136241	L507	1151332641	L557	1265315341
L408	1126233341	L458	1133146441	L508	1151133141	L558	1265315541
L409	1126233541	L459	1133146641	L509	1151133341	L559	1265331141
L410	1126235141	L460	1133151141	L510	1151334541	L560	1265331341
L411	1126245541	L461	1133151341	L511	1151345141	L561	1265331541
L412	1126251141	L462	1133151541	L512	1151345341	L562	1265133141
L413	1126251341	L463	1133153141	L513	1151346541	L563	1265133341
L414	1126251541	L464	1133153441	L514	1151351241	L564	1265133541
L415	1126265541	L465	1133153641	L515	1151351441	L565	1265335141
L416	1131312241	L466	1133155141	L516	1151352641	L566	1265335541
L417	1131312441	L467	1133165341	L517	1151353141	L567	1265351141
L418	1131312641	L468	1133165541	L518	1151353341	L568	1265351341
L419	1131314241	L469	1145311241	L519	1151354541	L569	1265351541
L420	1131314441	L470	1145311441	L520	1151365141	L570	1265353141
L421	1131314641	L471	1145312641	L521	1151365341	L571	1265353341
L422	1131326241	L472	1145313141	L522	1151366541	L572	1265353541
L423	1131326441	L473	1145313341	L523	1153311241	L573	1265355141
L424	1131326641	L474	1145314541	L524	1153311441	L574	1265355341
L425	1131331441	L475	1145315141	L525	1153312641	L575	1265355641
L426	1131332641	L476	1145315341	L526	1153313141	L576	1311312441
L427	1131133241	L477	1145326541	L527	1153313341	L577	1311312641
L428	1131133441	L478	1145331141	L528	1153314541	L578	1311314241
L429	1131334641	L479	1145331341	L529	1153315141	L579	1311314441
L430	1131345141	L480	1145331541	L530	1153315341	L580	1311314641
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L432	1131346541	L482	1145133341	L532	1153331141	L582	1311326441
L433	1131351241	L483	1145133541	L533	1153331341	L583	1311326641
L434	1131351441	L484	1145335141	L534	1153331541	L584	1311331441
L435	1131352641	L485	1145335341	L535	1153133141	L585	1311332641
L436	1131353141	L486	1145345541	L536	1153133441	L586	1311234641
L437	1131353341	L487	1145351141	L537	1153133641	L587	1311245141
L438	1131354541	L488	1145351341	L538	1153335141	L588	1311245341
L439	1131365141	L489	1145351541	L539	1153135341	L589	1311251241
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L441	1131366541	L491	1145353341	L541	1153351141	L591	1311252641
L442	1133311241	L492	1145353541	L542	1153351341	L592	1311253141
L443	1133311441	L493	1145355141	L543	1153351541	L593	1311253341
L444	1133312641	L494	1145355341	L544	1153353141	L594	1311254541
L445	1133313241	L495	1145365541	L545	1153353341	L595	1311265141
L446	1133313441	L496	1151312241	L546	1153353541	L596	1311265341
L447	1133314641	L497	1151312441	L547	1153355141	L597	1311266541
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L603	1313315141	L653	1331314641	L703	1336215541	L753	1353113441
L604	1313115341	L654	1331315141	L704	1336231141	L754	1353113641
L605	1313326541	L655	1331115341	L705	1336231441	L755	1353315141
L606	1313131441	L656	1331126541	L706	1336232641	L756	1353115341
L607	1313132641	L657	1331131441	L707	1336234141	L757	1353315541
L608	1313134641	L658	1331132641	L708	1336234441	L758	1353131141
L609	1313136241	L659	1331134641	L709	1336234641	L759	1353131441
L610	1313346441	L660	1331136241	L710	1336236241	L760	1353132641
L611	1313346641	L661	1331146441	L711	1336236441	L761	1353134141
L612	1313351141	L662	1331146641	L712	1336246641	L762	1353134441
L613	1313151341	L663	1331151141	L713	1336251141	L763	1353134641
L614	1313351541	L664	1331151341	L714	1336251341	L764	1353136241
L615	1313153141	L665	1331151541	L715	1336251541	L765	1353136441
L616	1313153441	L666	1331153141	L716	1336253141	L766	1353136641
L617	1313153641	L667	1331153441	L717	1336253441	L767	1353151141
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L619	1313165341	L669	1331155141	L719	1336255141	L769	1353151541
L620	1313365541	L670	1331165341	L720	1336255341	L770	1353153141
L621	1315311241	L671	1331165541	L721	1336265541	L771	1353153441
L622	1315311441	L672	1334111341	L722	1351111241	L772	1353153641
L623	1315312641	L673	1334111541	L723	1351111441	L773	1353155141
L624	1315313141	L674	1334113141	L724	1351112641	L774	1353155441
L625	1315113341	L675	1334113441	L725	1351113141	L775	1353155641
L626	1315314541	L676	1334113641	L726	1351113341	L776	1455311141
L627	1315315141	L677	1334115141	L727	1351314541	L777	1455311341
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L631	1315131341	L681	1334132641	L731	1351331141	L781	1455315141
L632	1315131541	L682	1334134541	L732	1351131341	L782	1455315341
L633	1315133141	L683	1334136241	L733	1351331541	L783	1455315641
L634	1315133441	L684	1334136441	L734	1351133141	L784	1455331141
L635	1315133641	L685	1334136641	L735	1351133441	L785	1455331341
L636	1315135141	L686	1334151141	L736	1351133641	L786	1455331541
L637	1315135341	L687	1334151341	L737	1351335141	L787	1455133341
L638	1315145541	L688	1334151541	L738	1351135341	L788	1455333541
L639	1315151141	L689	1334153141	L739	1351345541	L789	1455335141
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L641	1315151541	L691	1334153641	L741	1351351341	L791	1455335641
L642	1315153141	L692	1334155141	L742	1351351541	L792	1455351141
L643	1315153341	L693	1334155341	L743	1351353141	L793	1455351341
L644	1315153541	L694	1334155541	L744	1351353341	L794	1455352641
L645	1315155141	L695	1336211141	L745	1351353541	L795	1455353141
L646	1315155341	L696	1336211341	L746	1351355141	L796	1455353341
L647	1315165541	L697	1336211541	L747	1351355341	L797	1455354641
L648	1331311241	L698	1336213141	L748	1351365541	L798	1455356241
L649	1331311441	L699	1336213441	L749	1353311141	L799	1455356441
L650	1331312641	L700	1336213641	L750	1353111341	L800	1455356641

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N614	2531131561	N664	2551311461	N714	2655352661		
N615	2531133461	N665	2551312661	N715	2655353361		
N616	2531133661	N666	2551113361	N716	2655354661		
N617	2531135361	N667	2551314561	N717	2655356261		
N618	2531145561	N668	2551315261	N718	2655356461		
N619	2531151361	N669	2551326661				
N620	2531151561	N670	2551131361				
N621	2531153361	N671	2551131561				
N622	2531153561	N672	2551133361				
N623	2531155361	N673	2551133561				
N624	2531165561	N674	2551345361				
N625	2533111361	N675	2551345661				
N626	2533111561	N676	2551351261				
N627	2533113461	N677	2551351461				
N628	2533113661	N678	2551352661				
N629	2533115361	N679	2551153361				
N630	2533115561	N680	2551364561				
N631	2533131461	N681	2551365361				
N632	2533132661	N682	2551366561				
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N640	2533153461	N690	2553131561				
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N646	2535113361	N696	2553152661				
N647	2535113561	N697	2553153461				
N648	2535315361	N698	2553154661				
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N650	2535131361	N700	2553156461				

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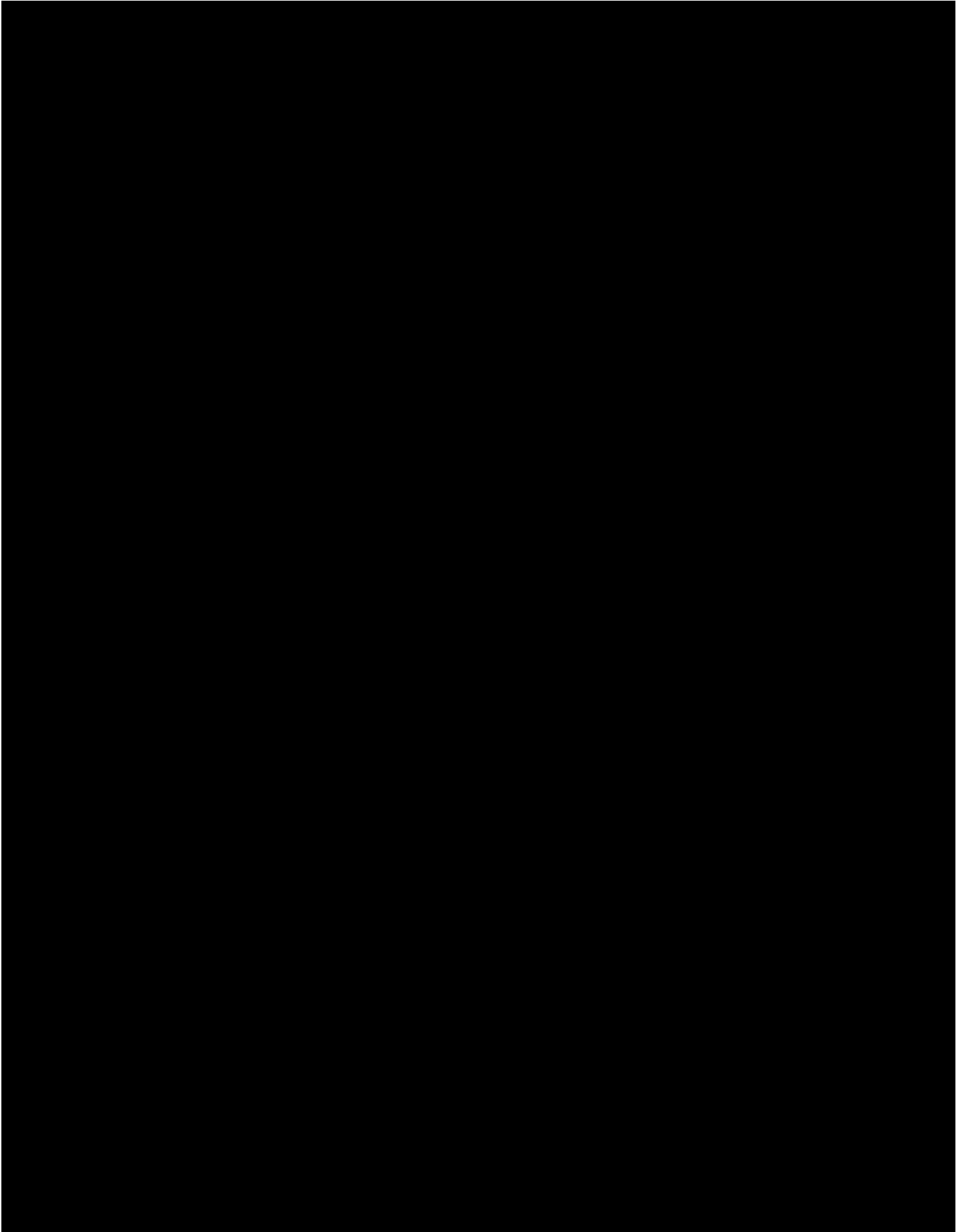
5-29-2009

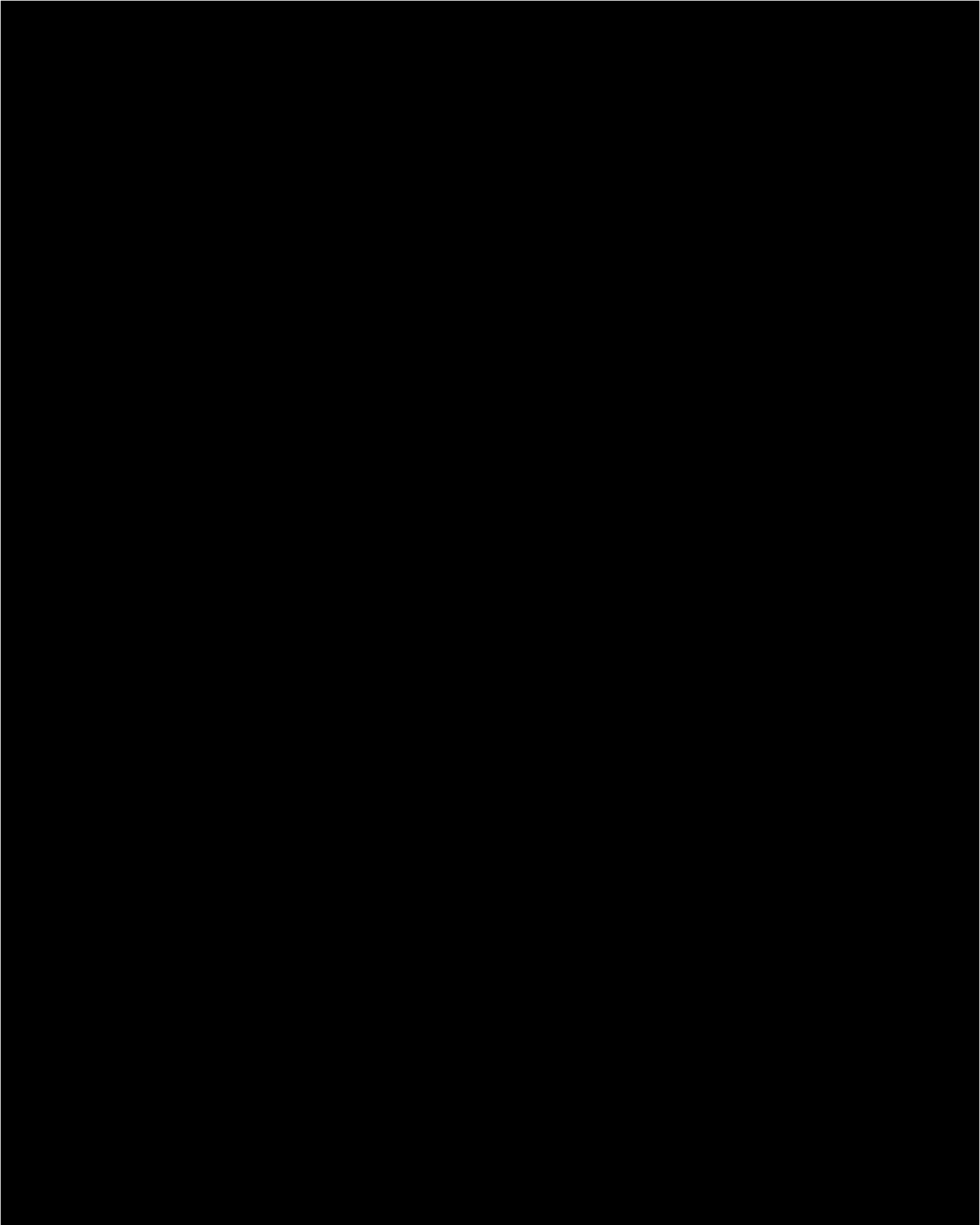
ATTACHMENT Q12

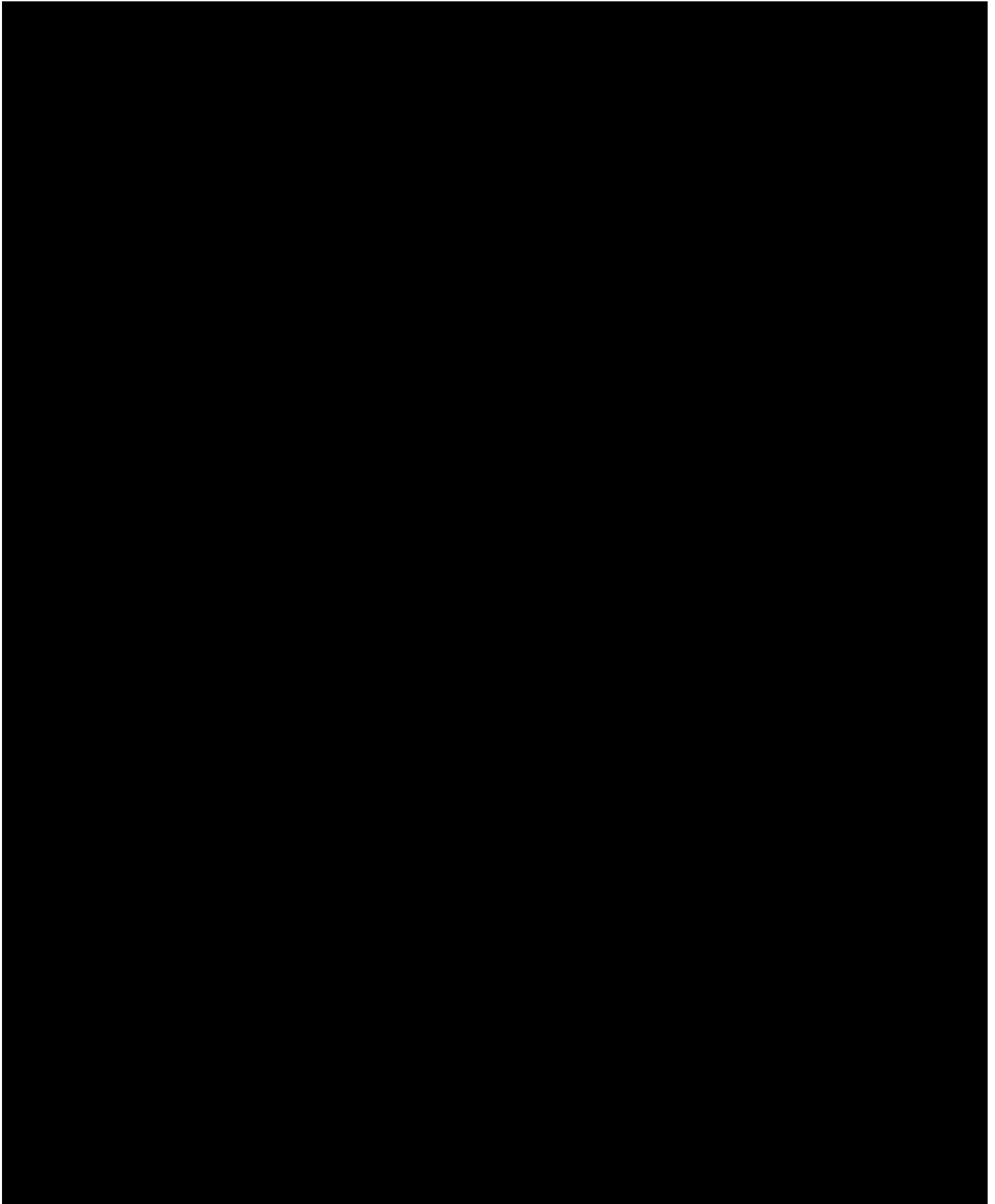
1998 ACCORD TEST

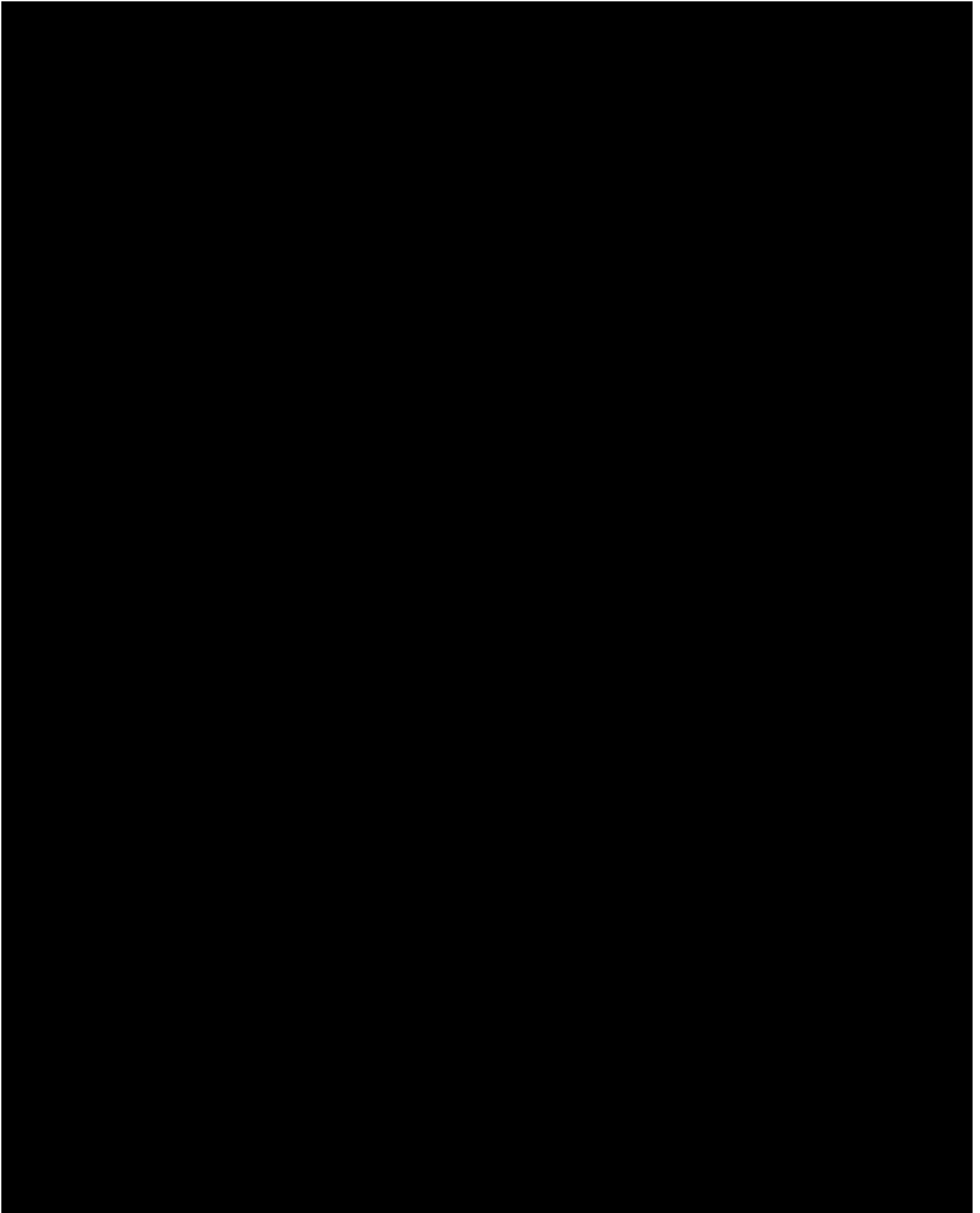
REPORT English

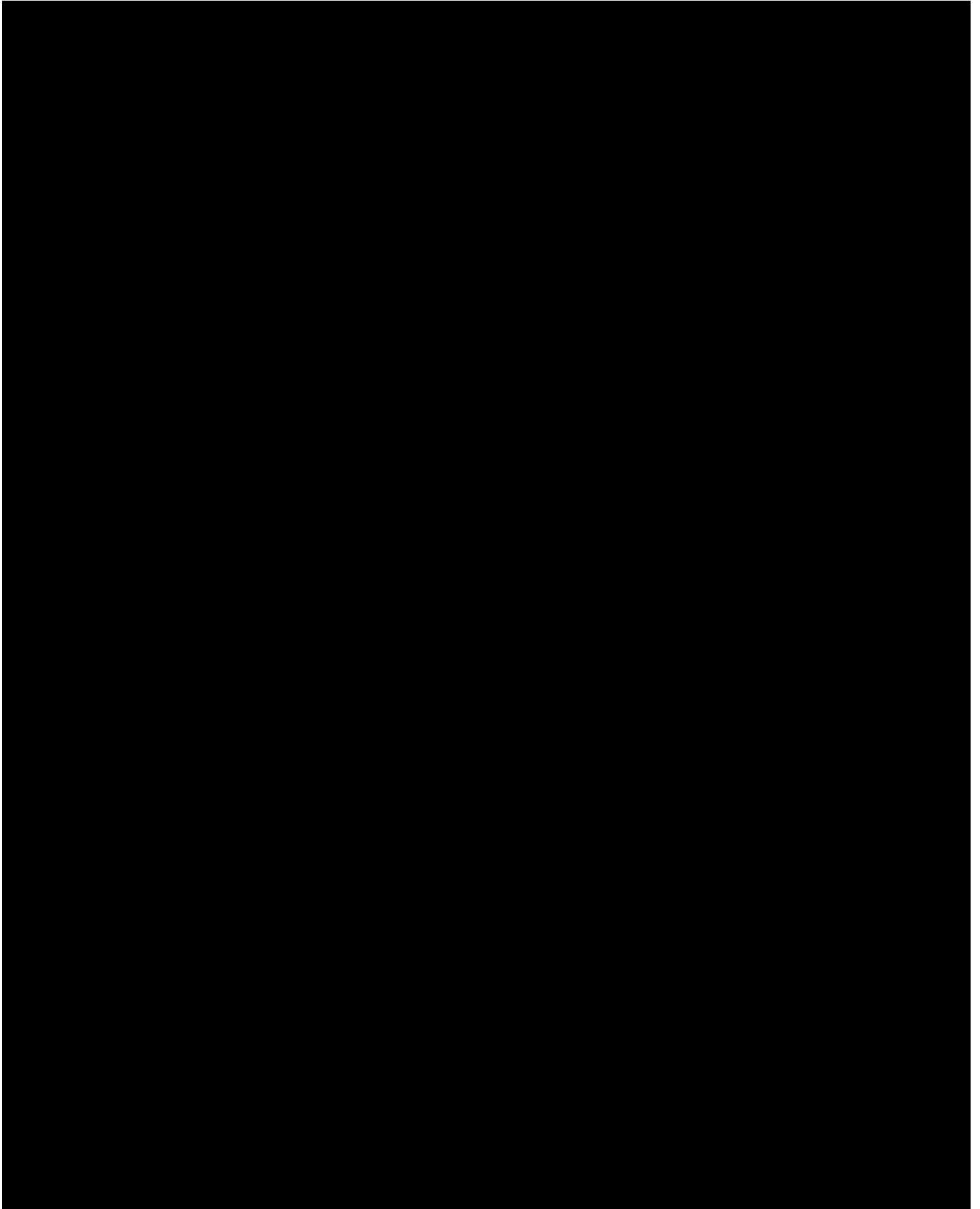
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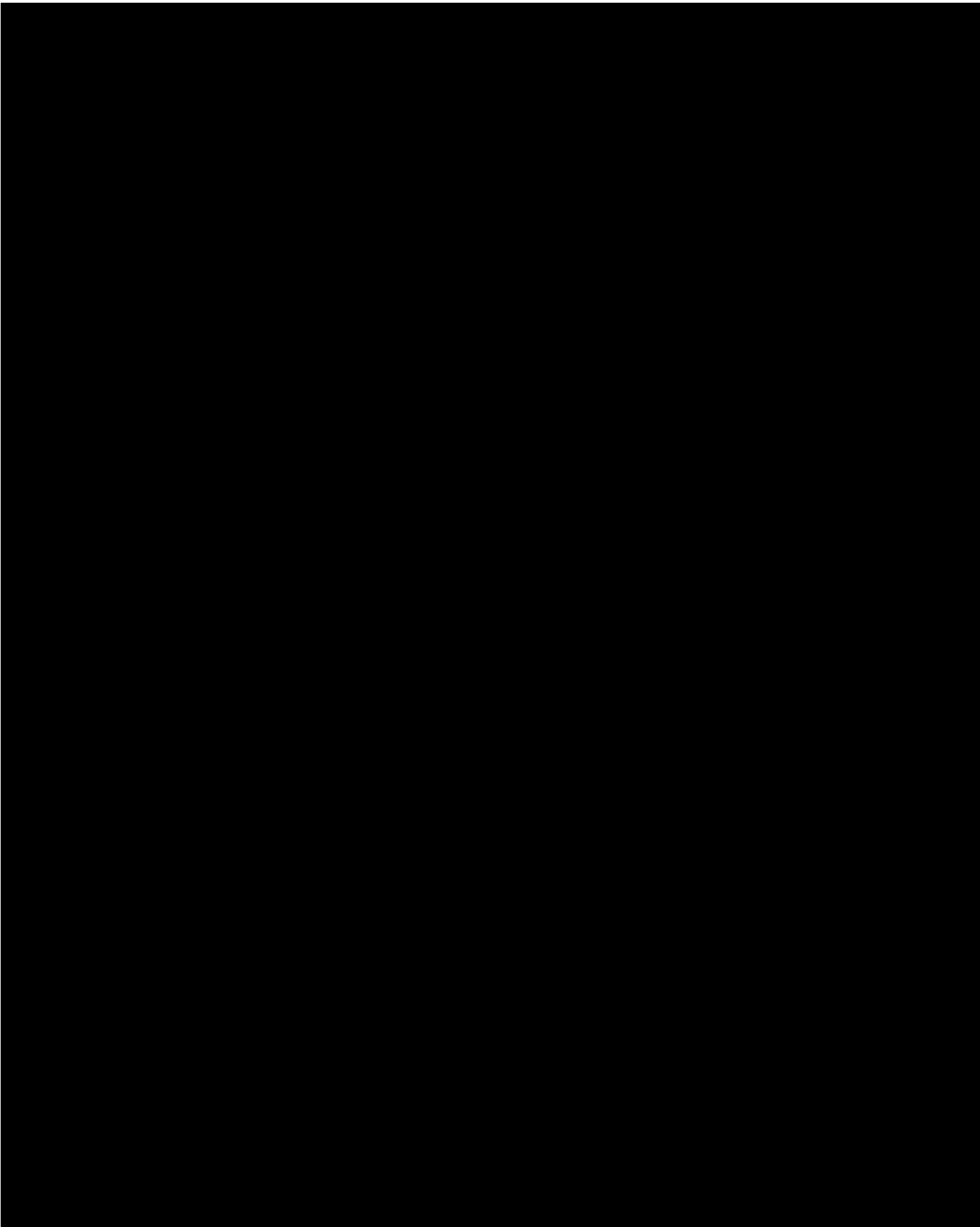


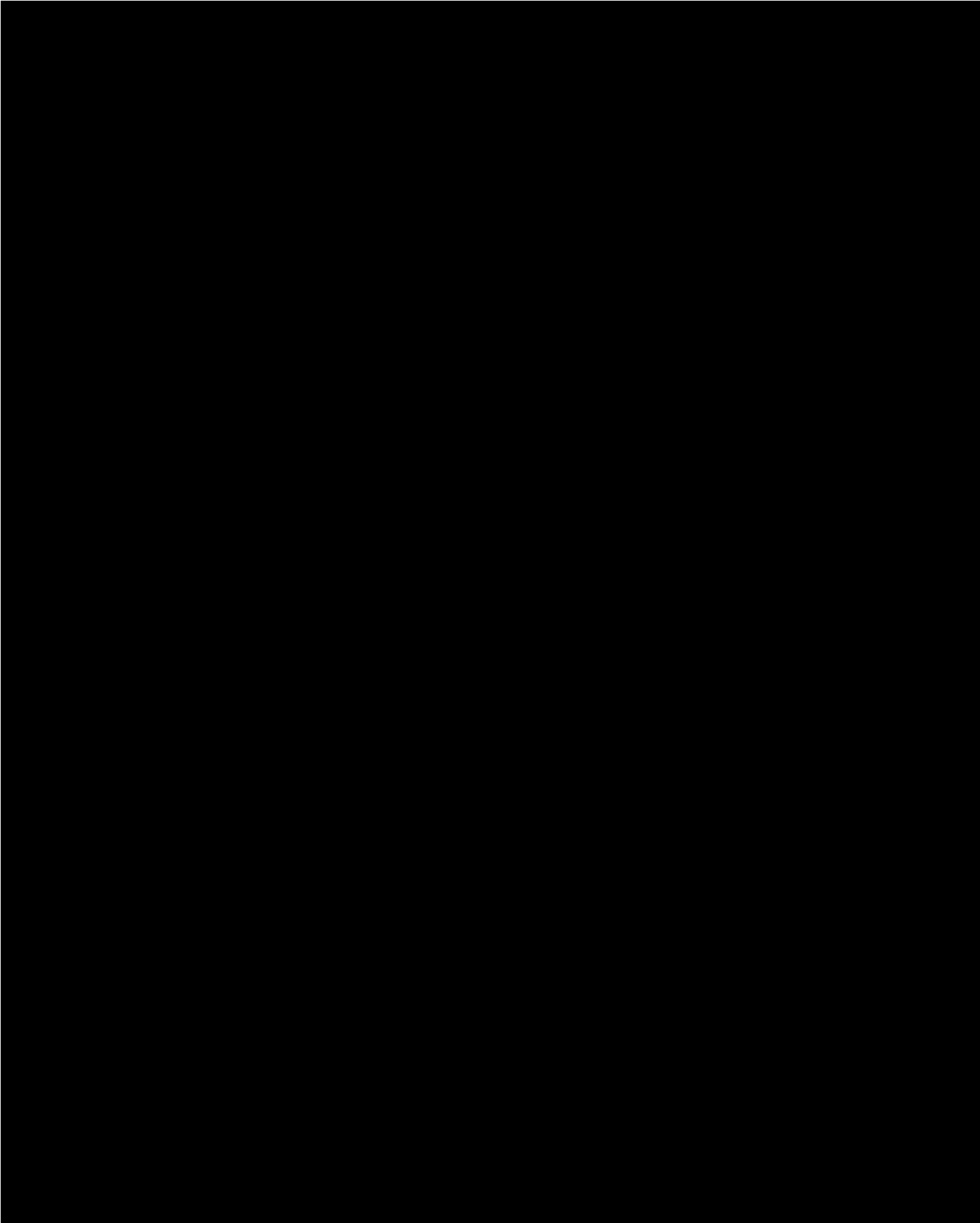


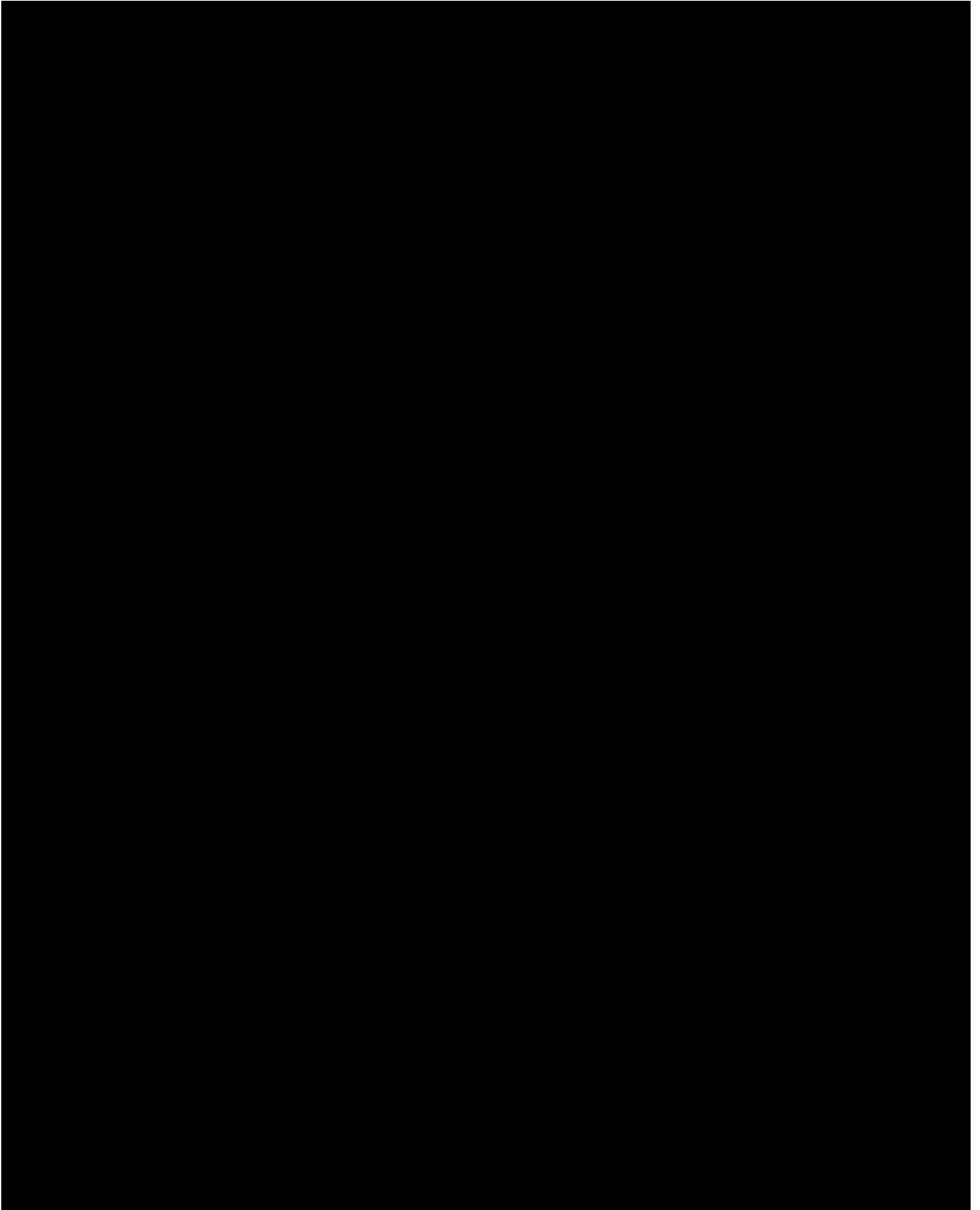


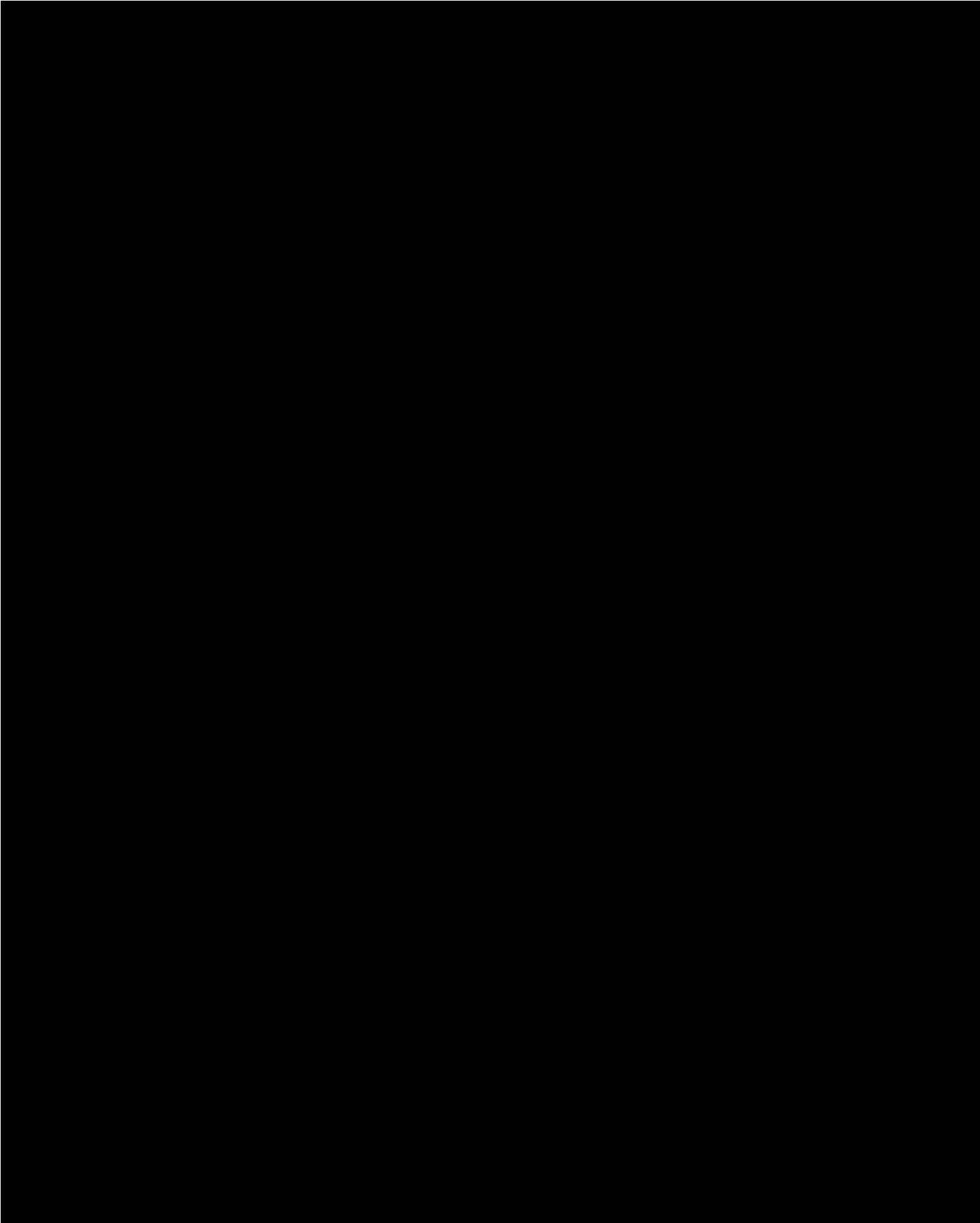


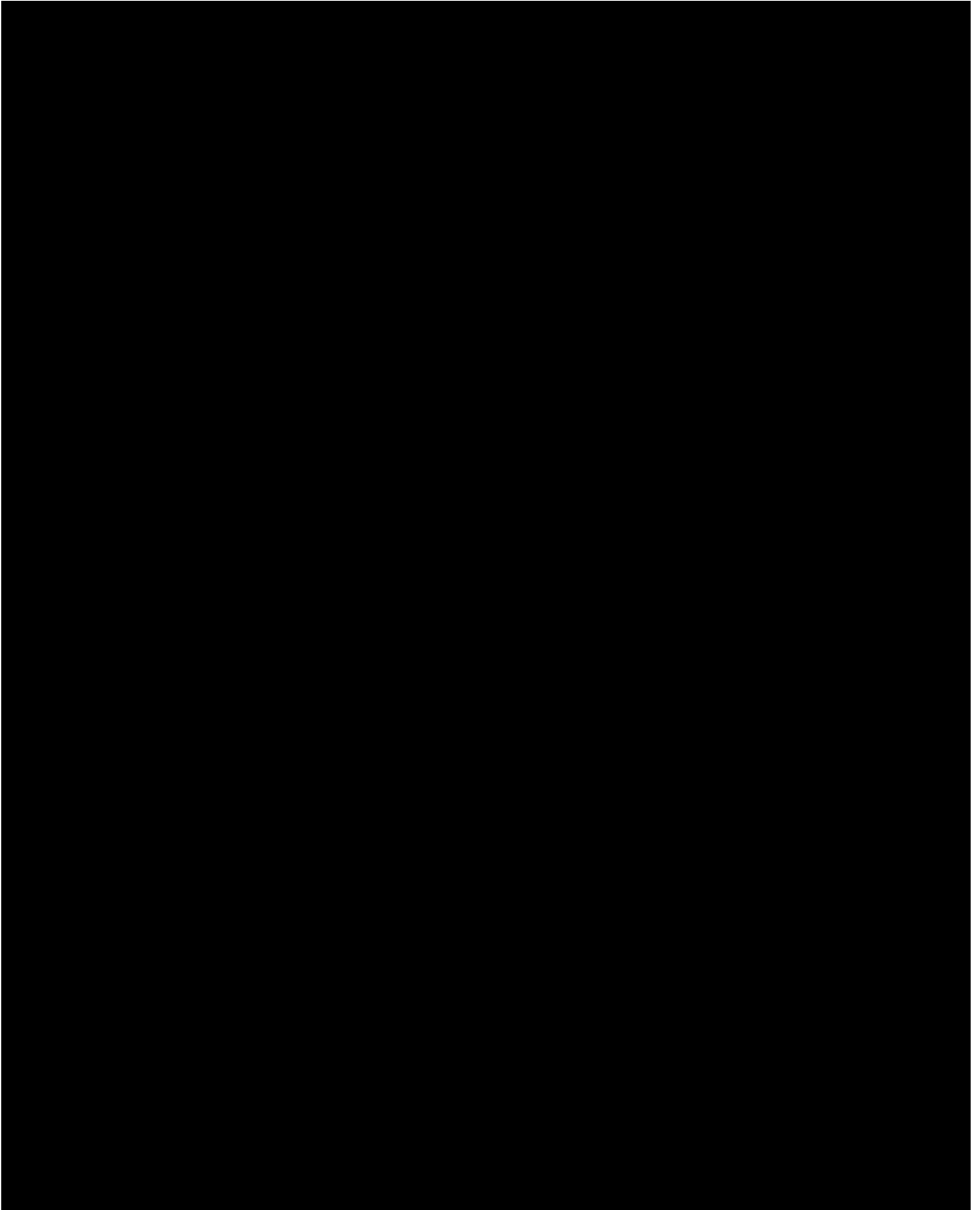


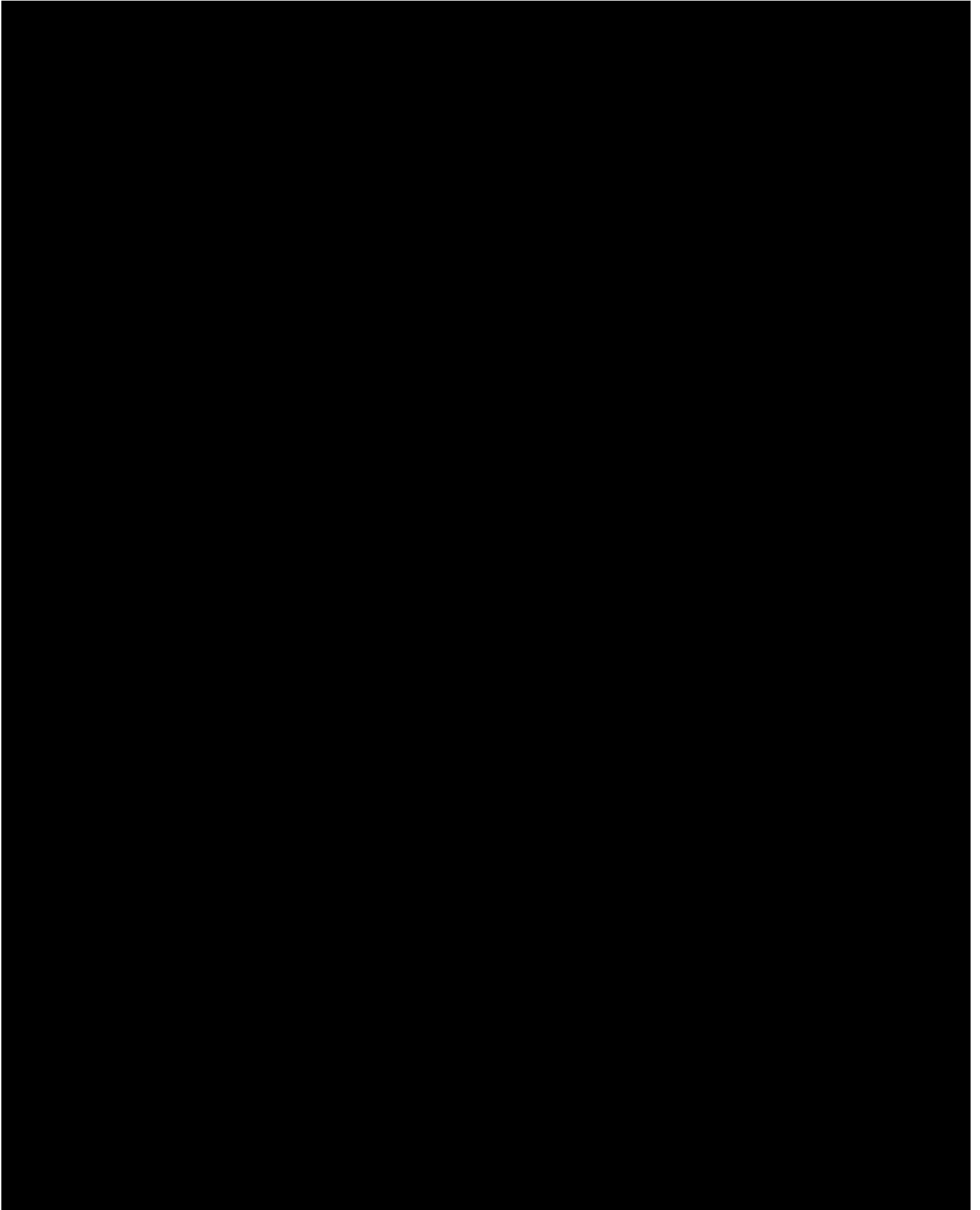


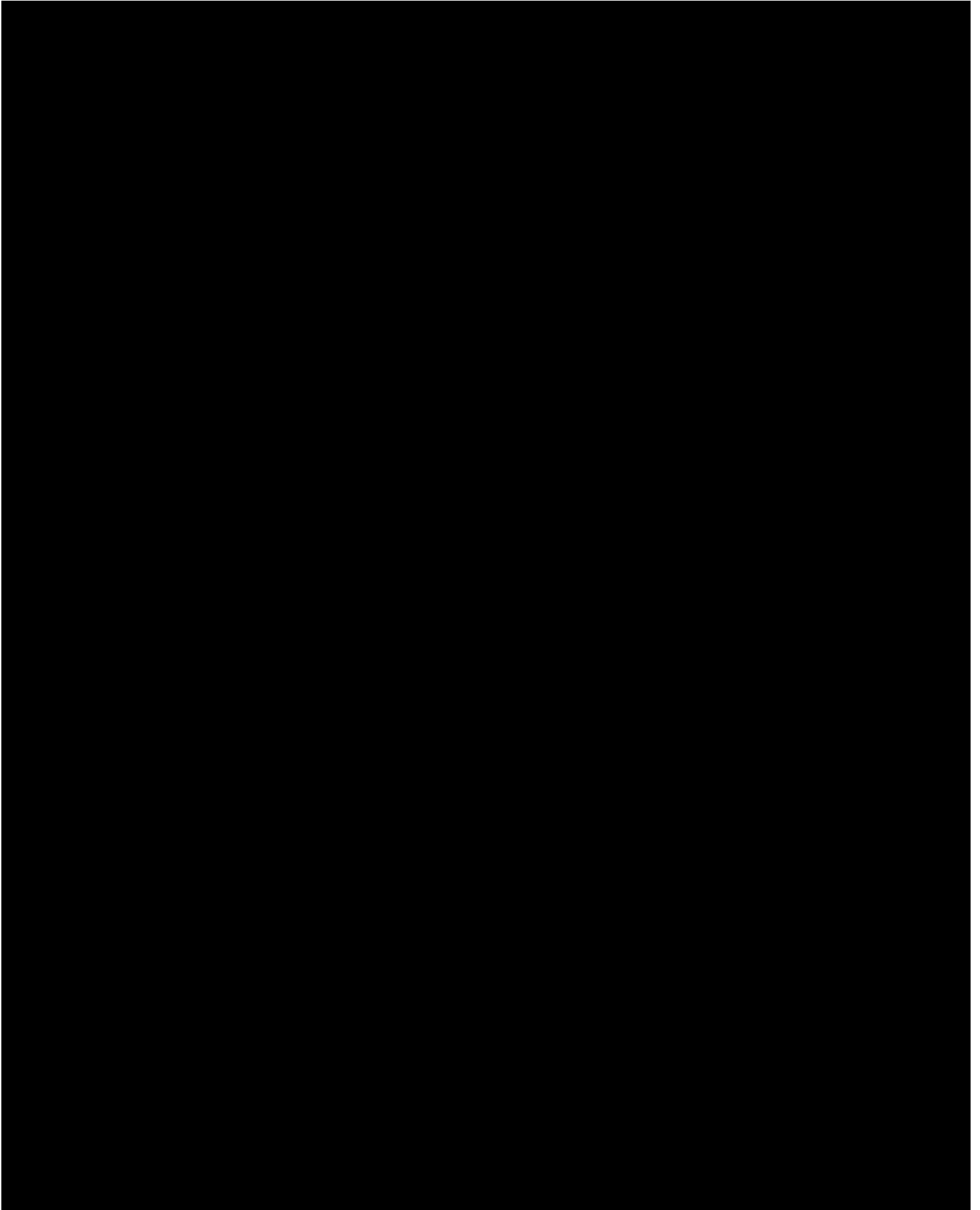












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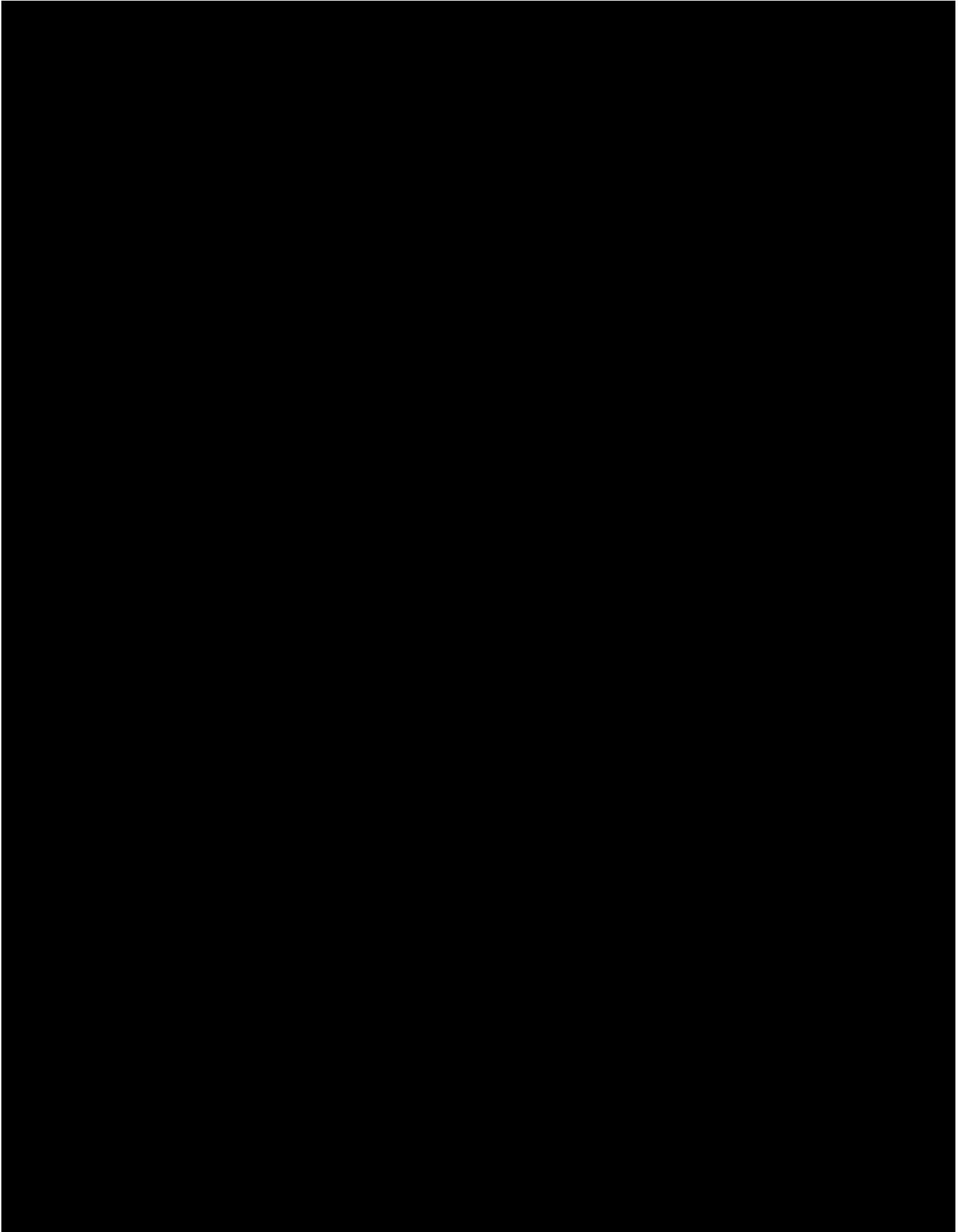
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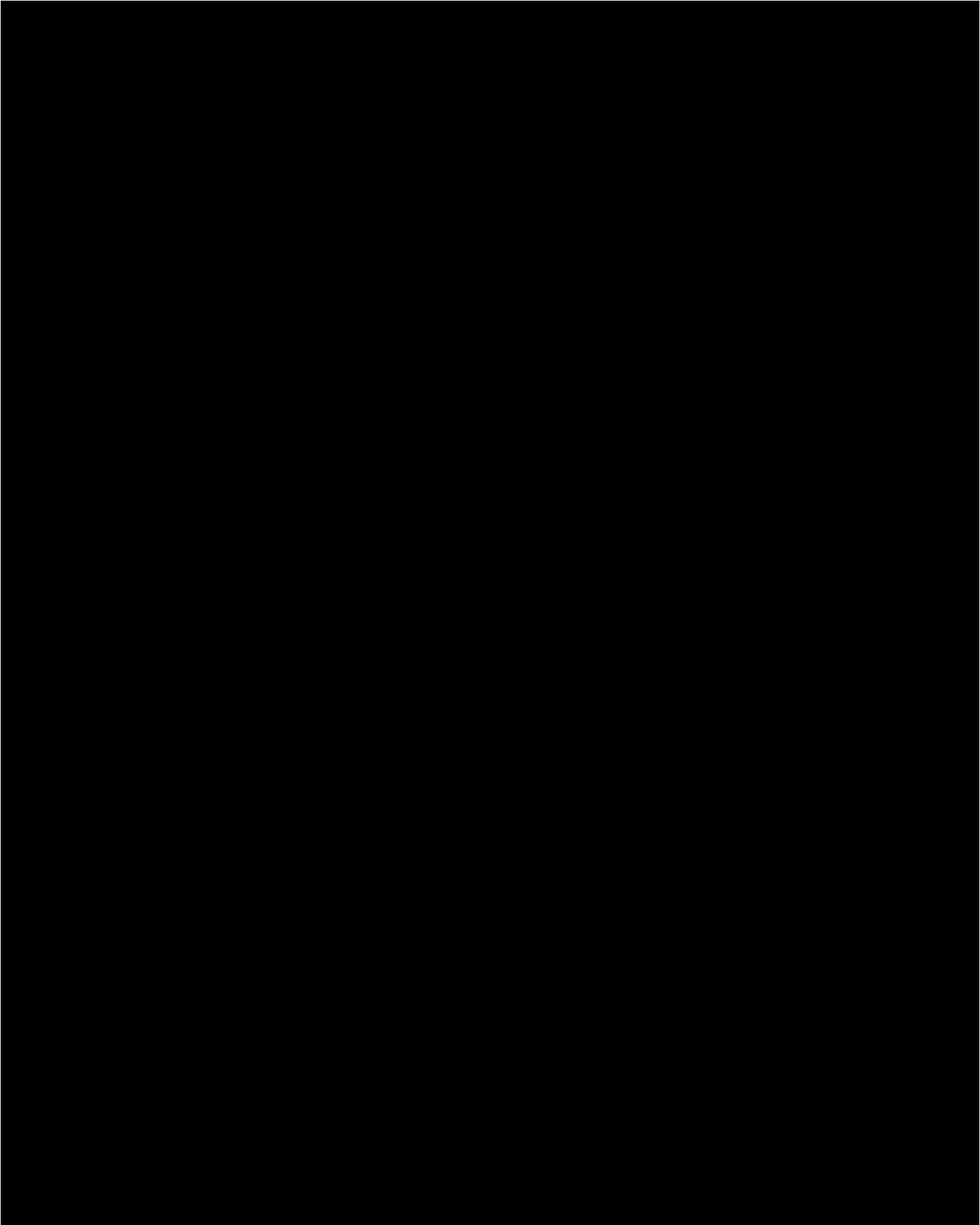
ATTACHMENT Q12

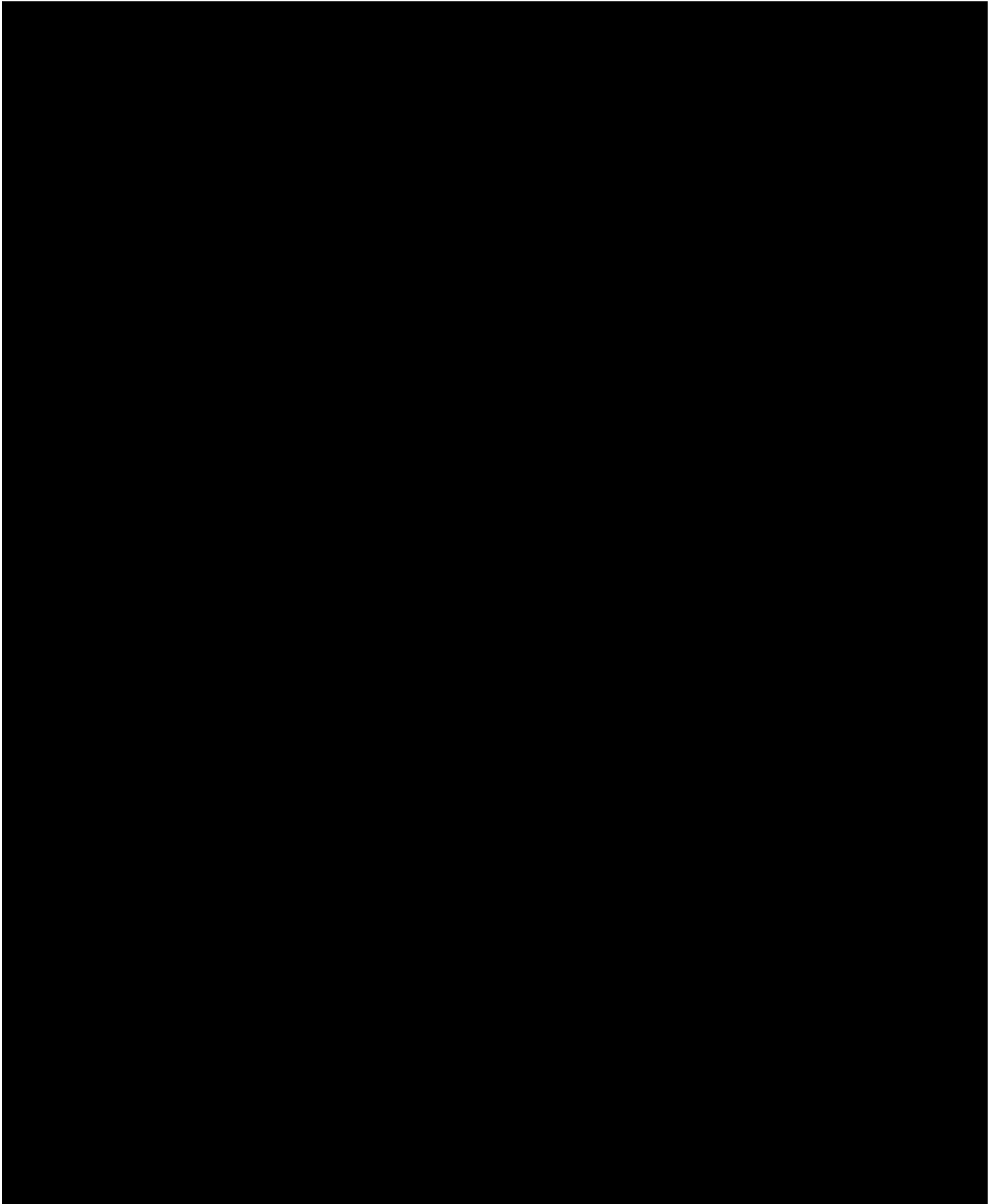
2001 CIVIC TEST

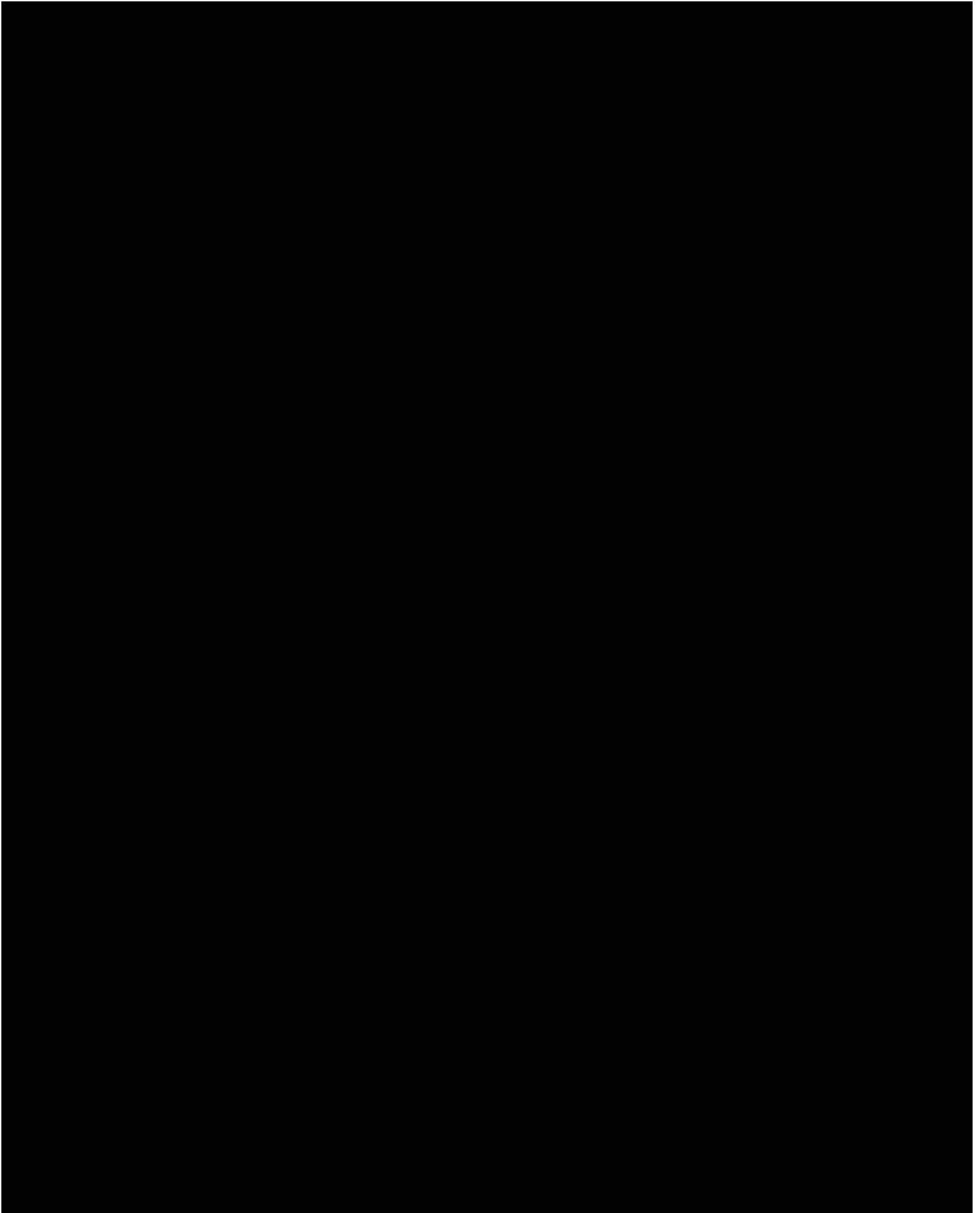
REPORT English

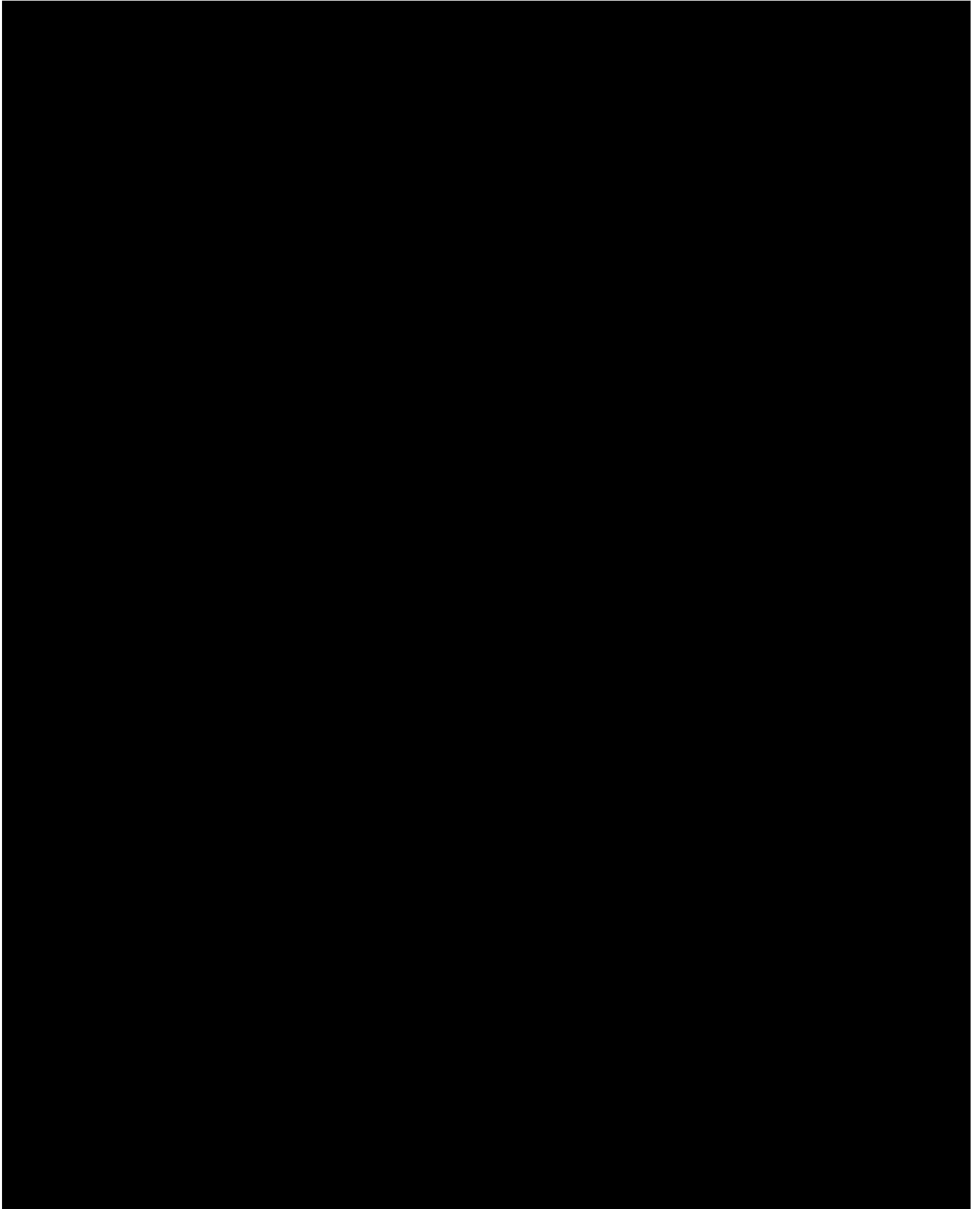
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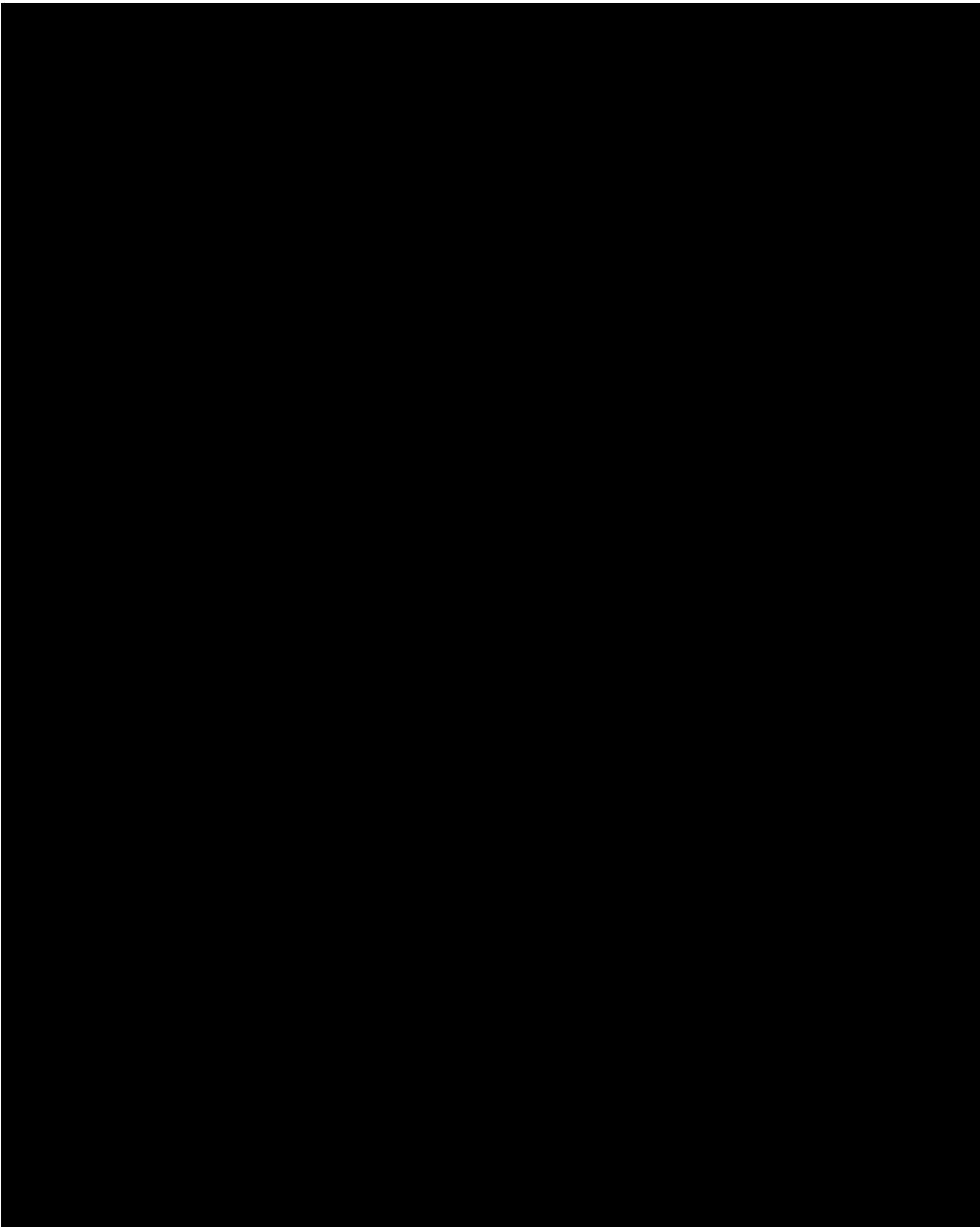


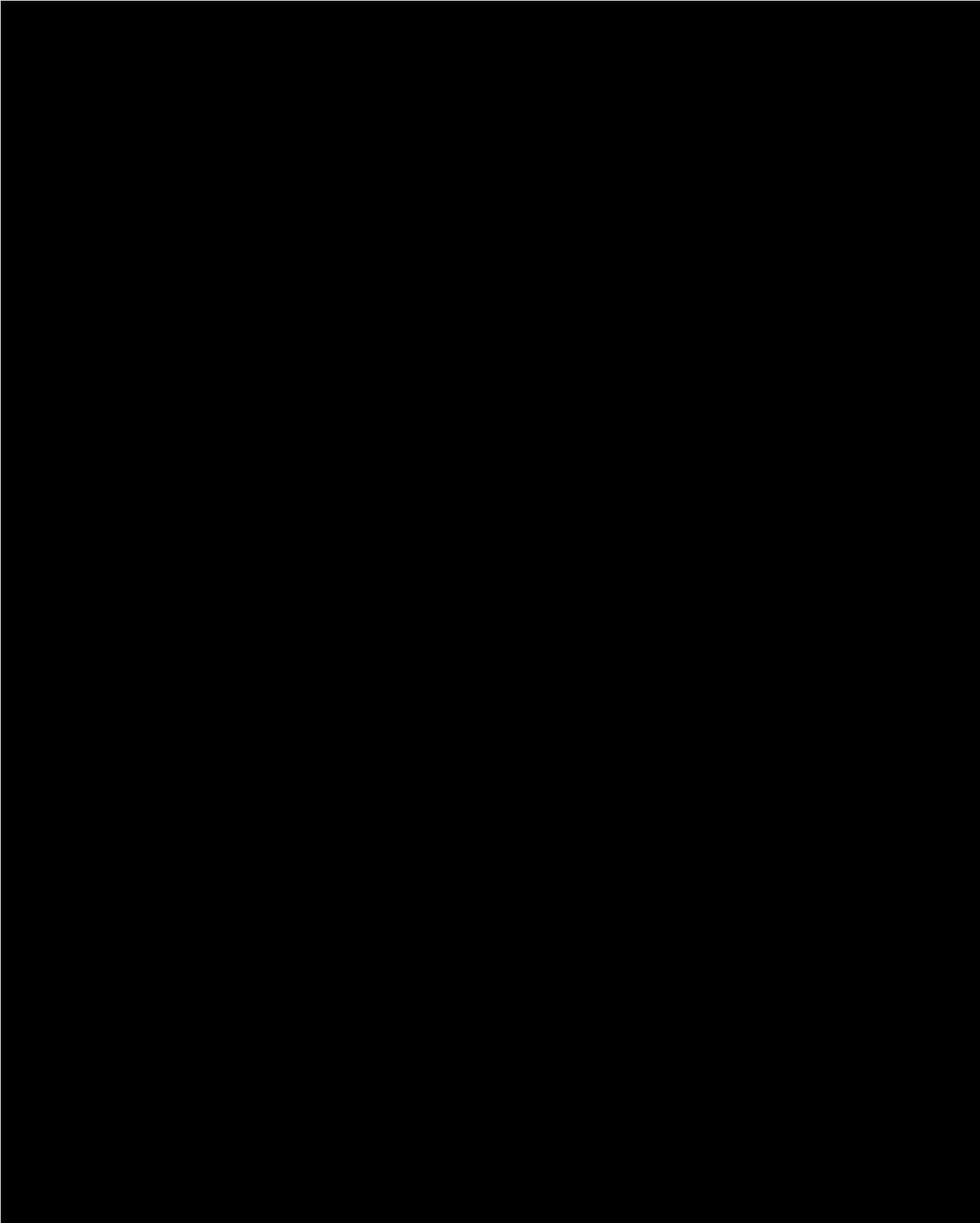


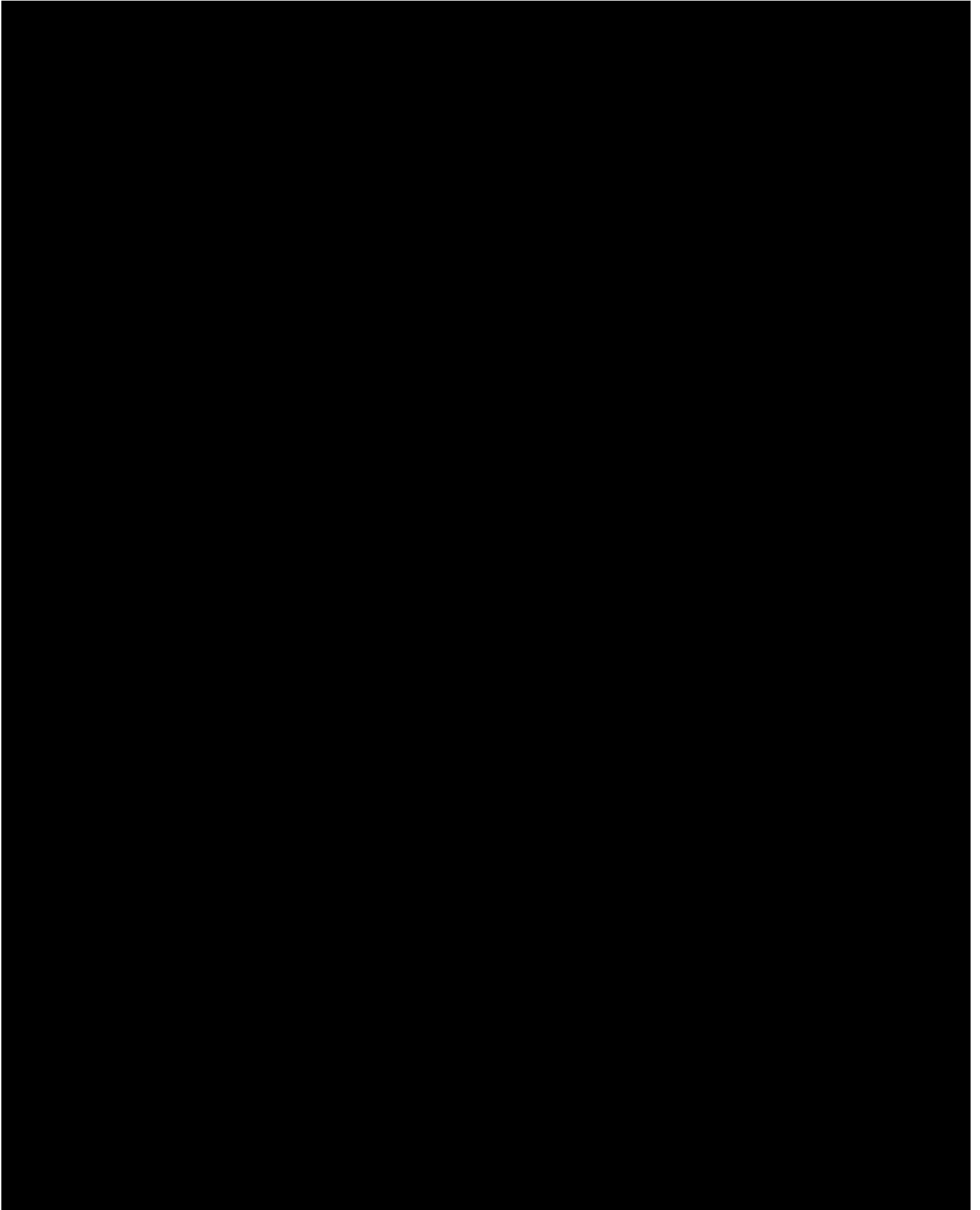


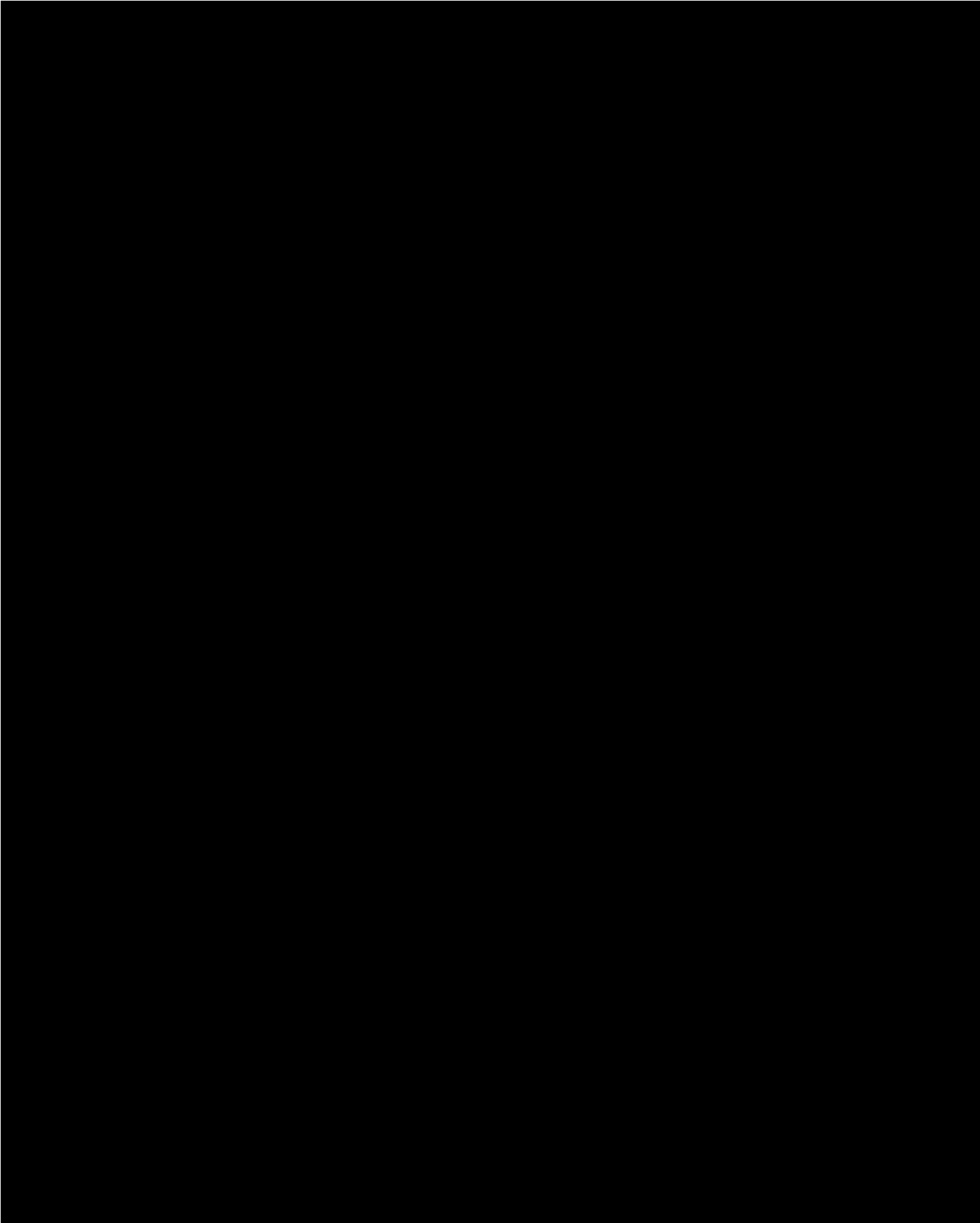


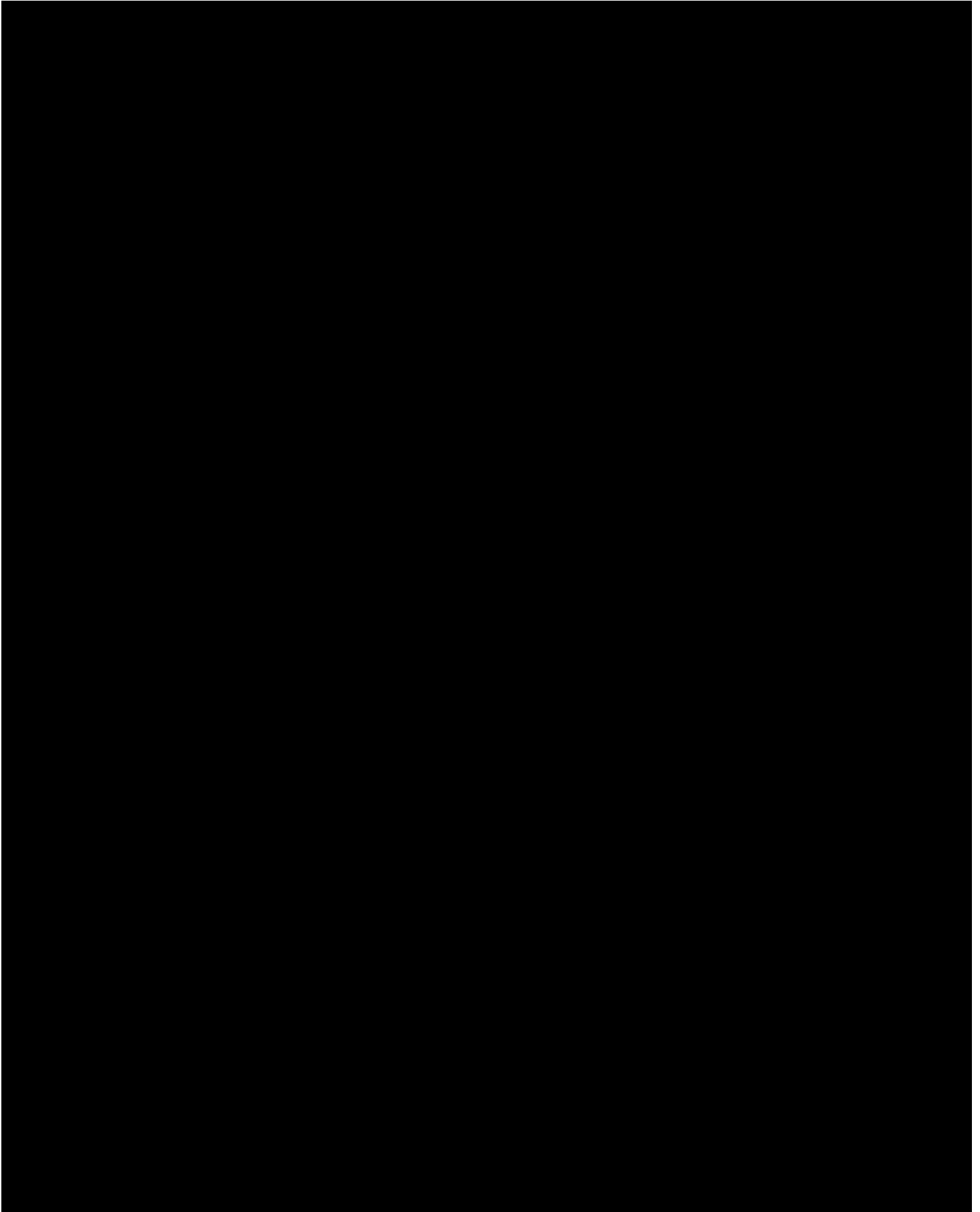


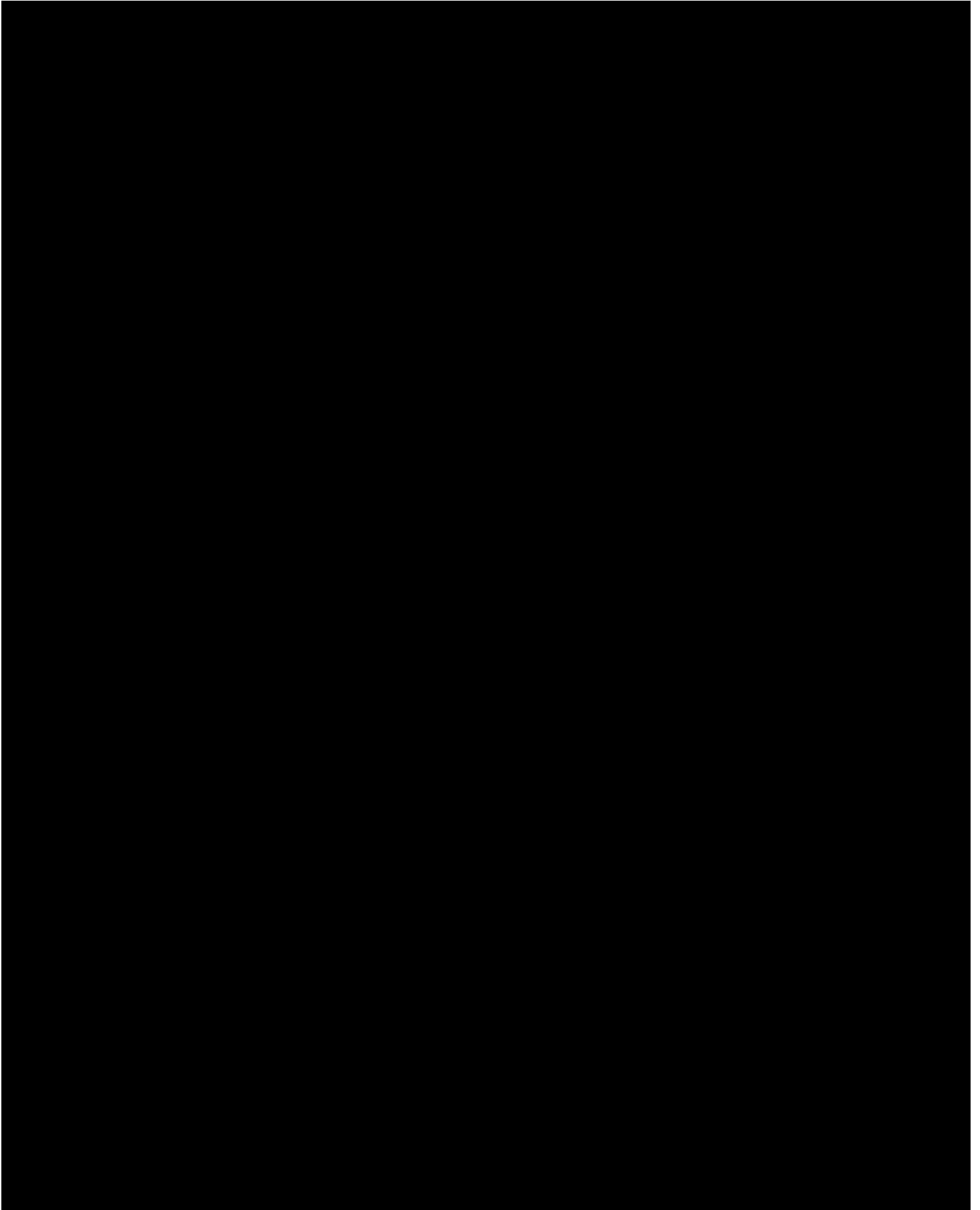


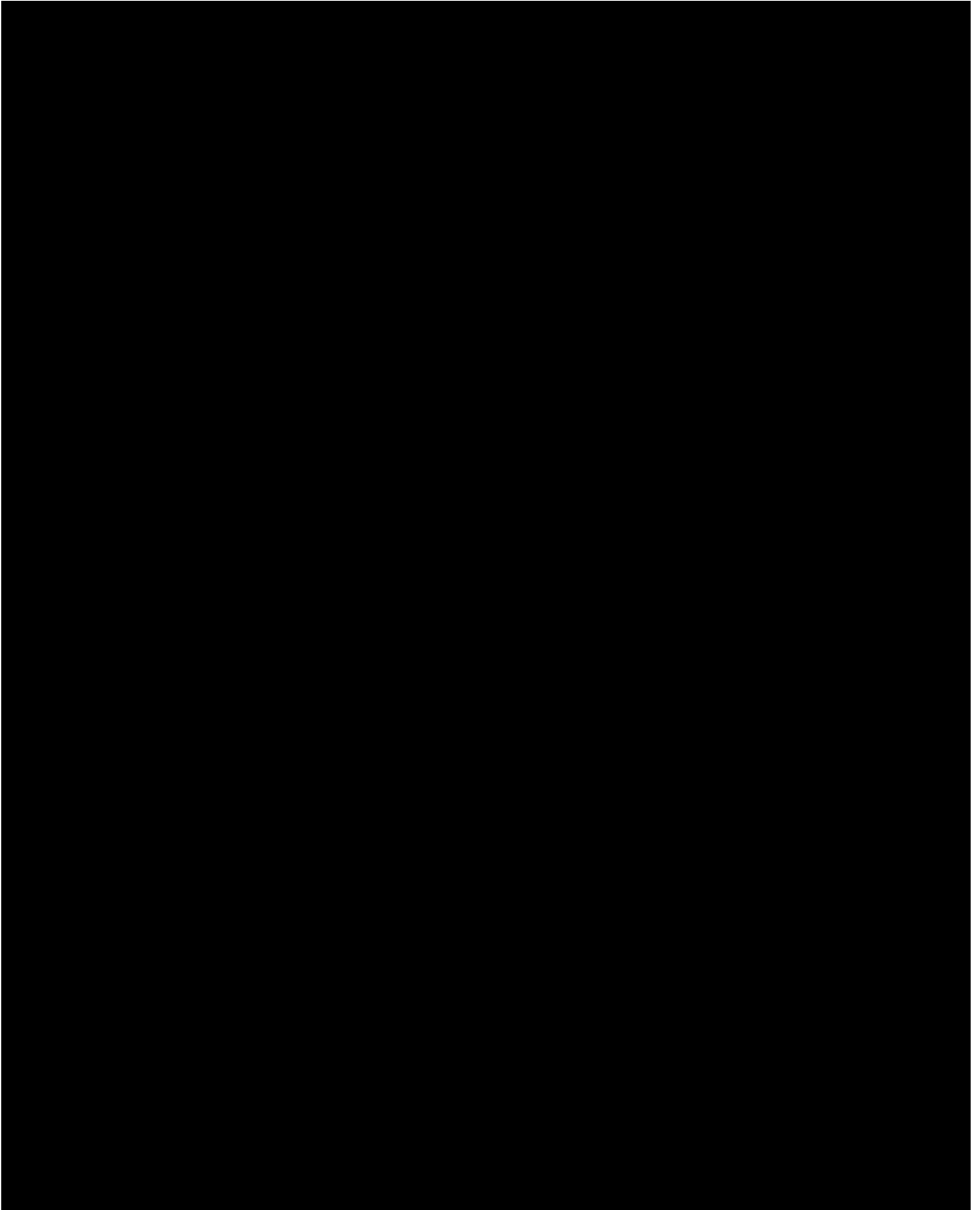


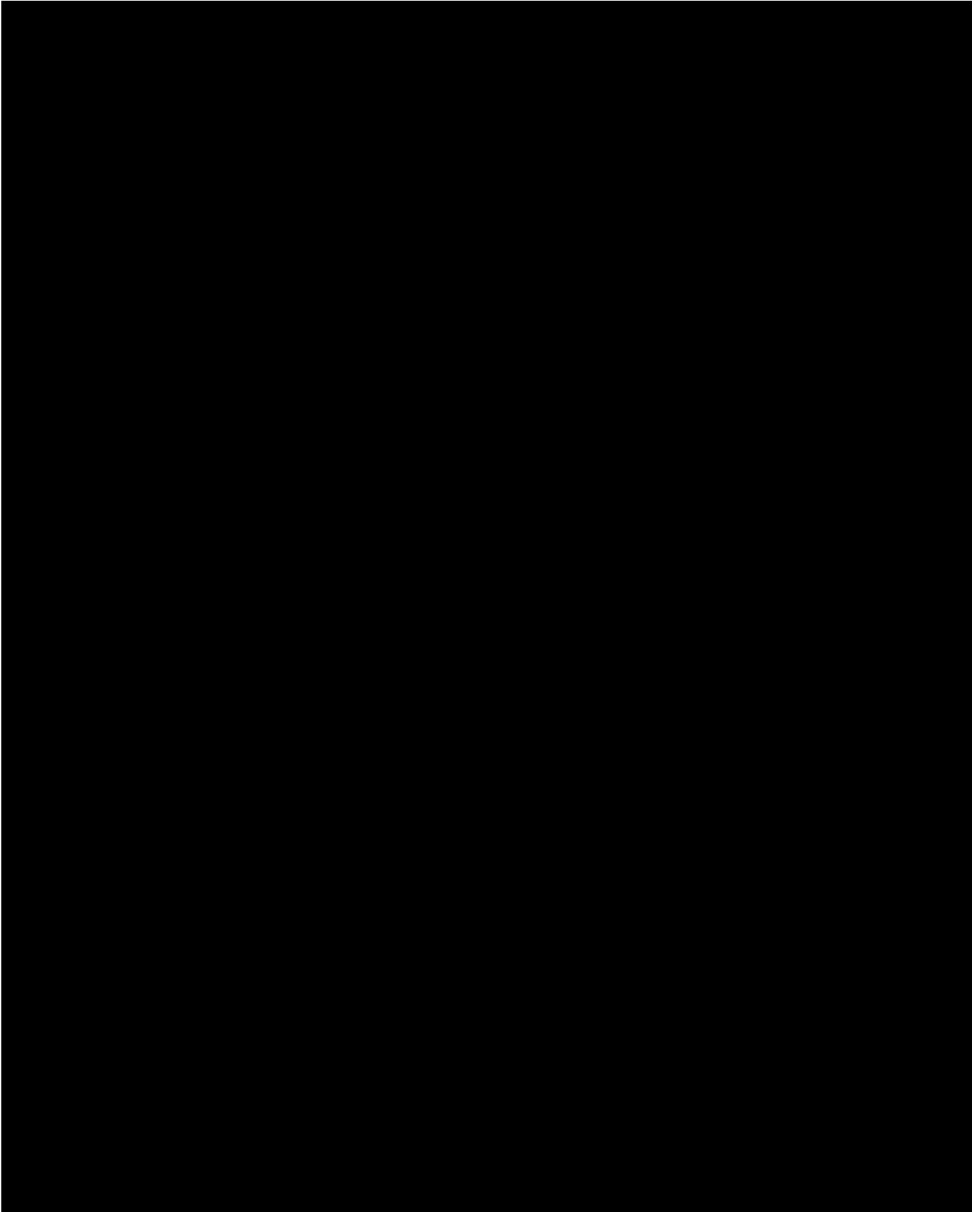


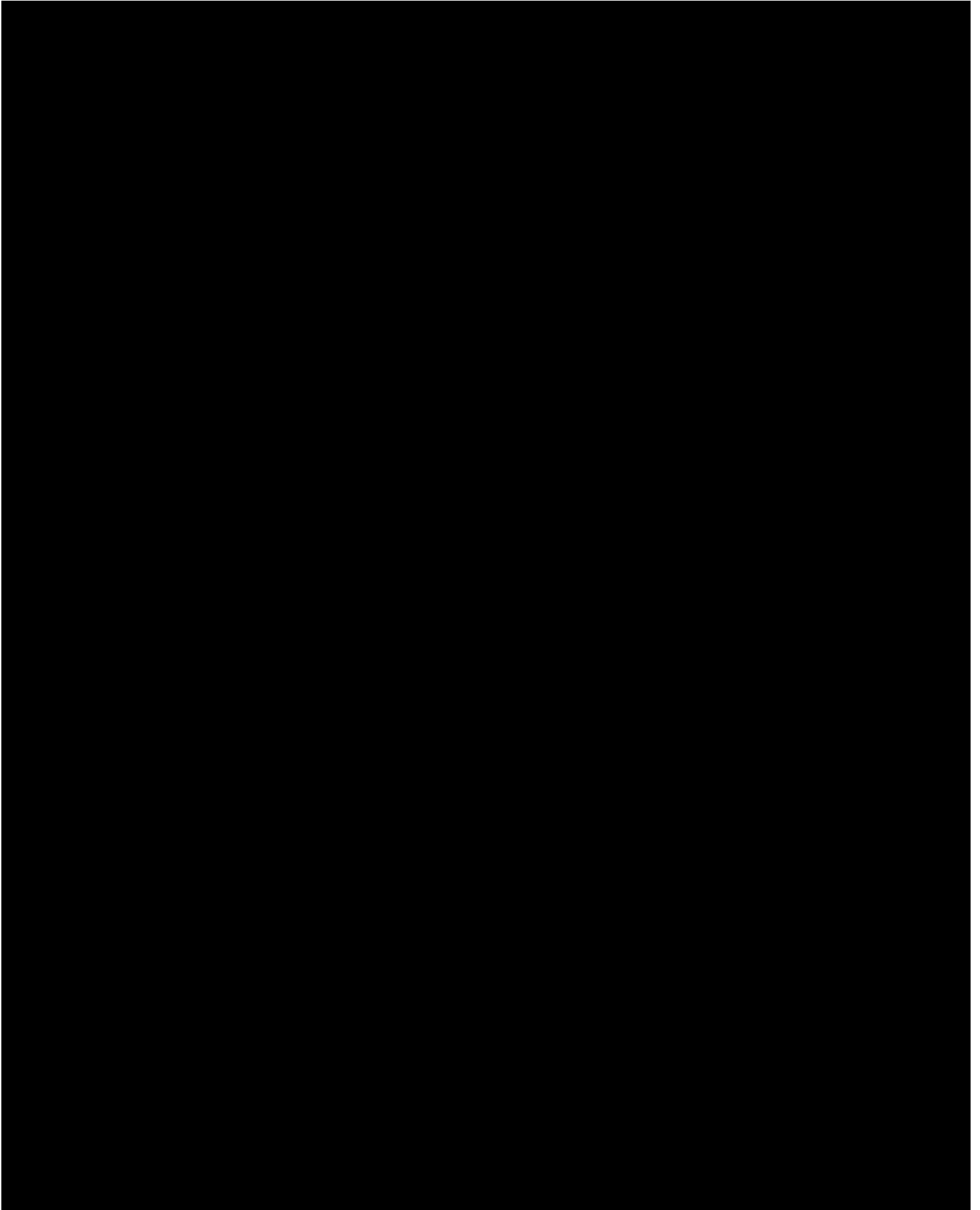


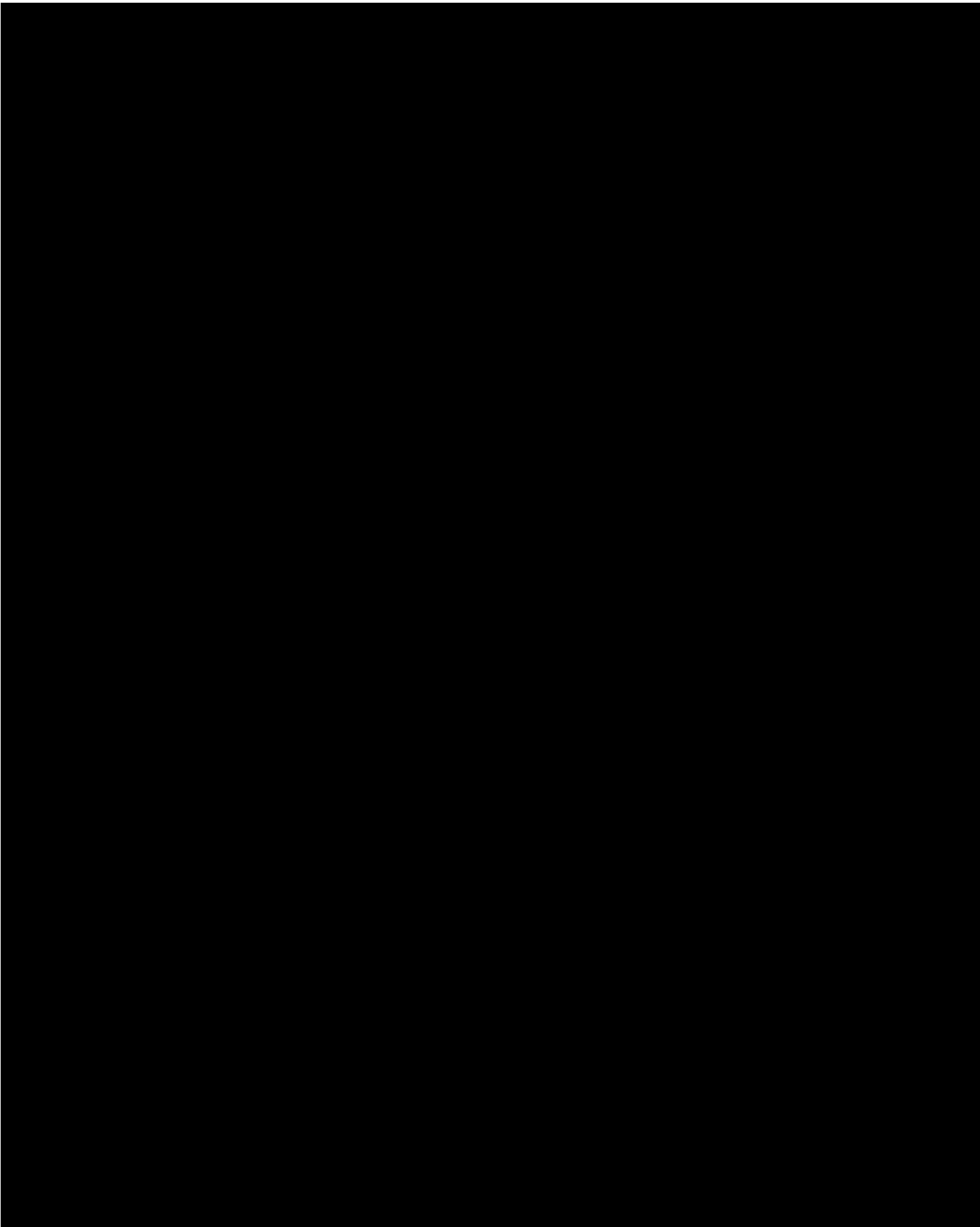


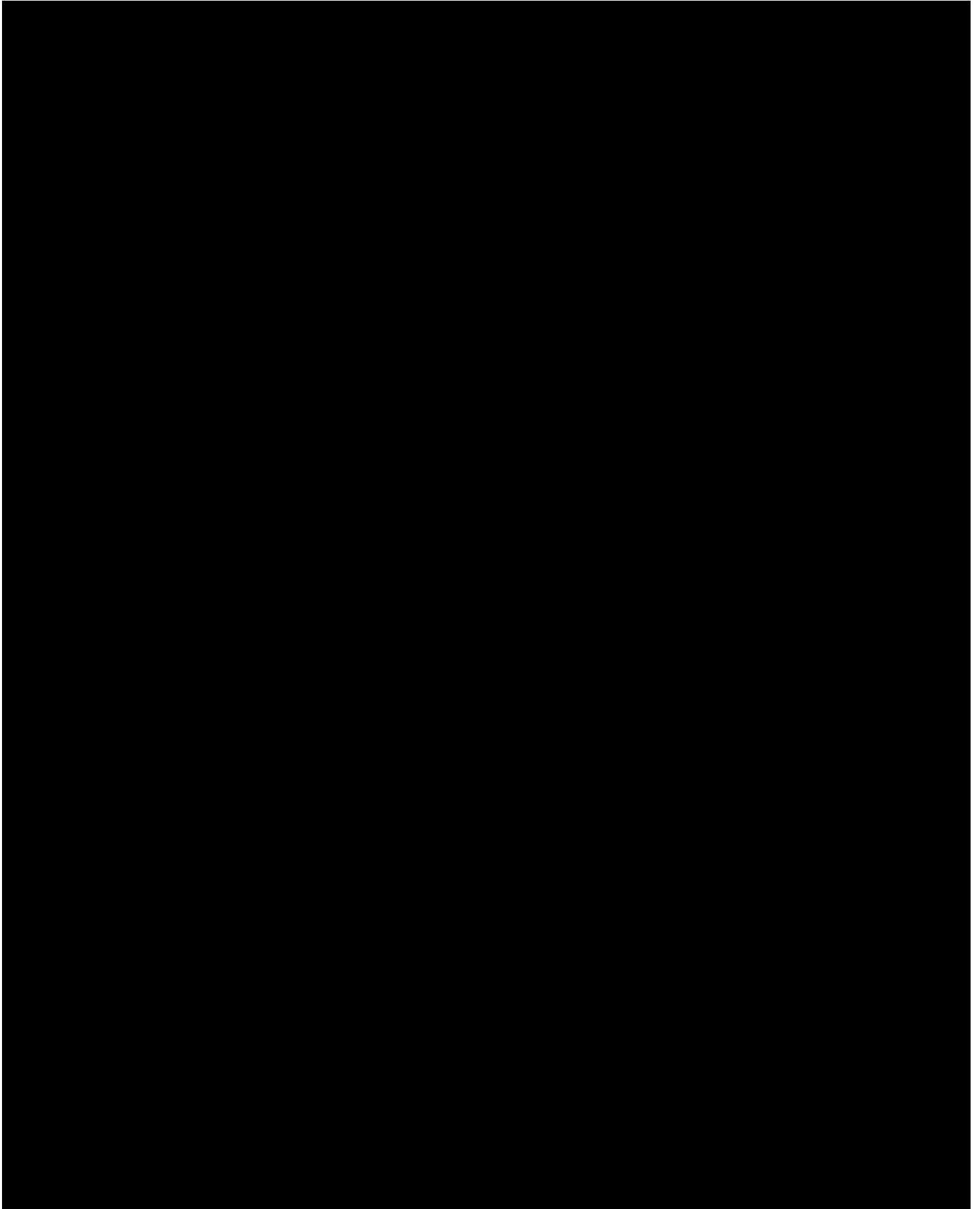


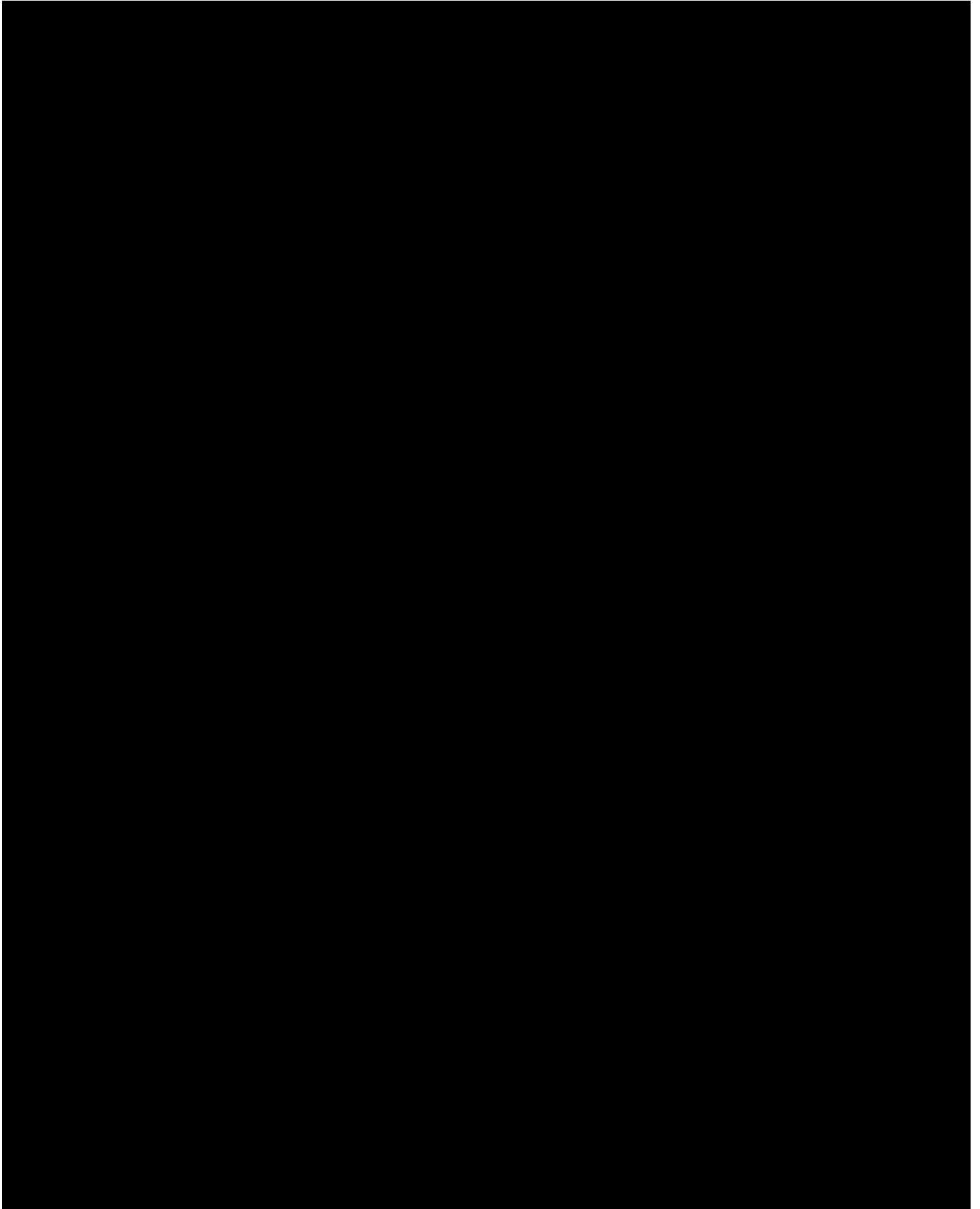


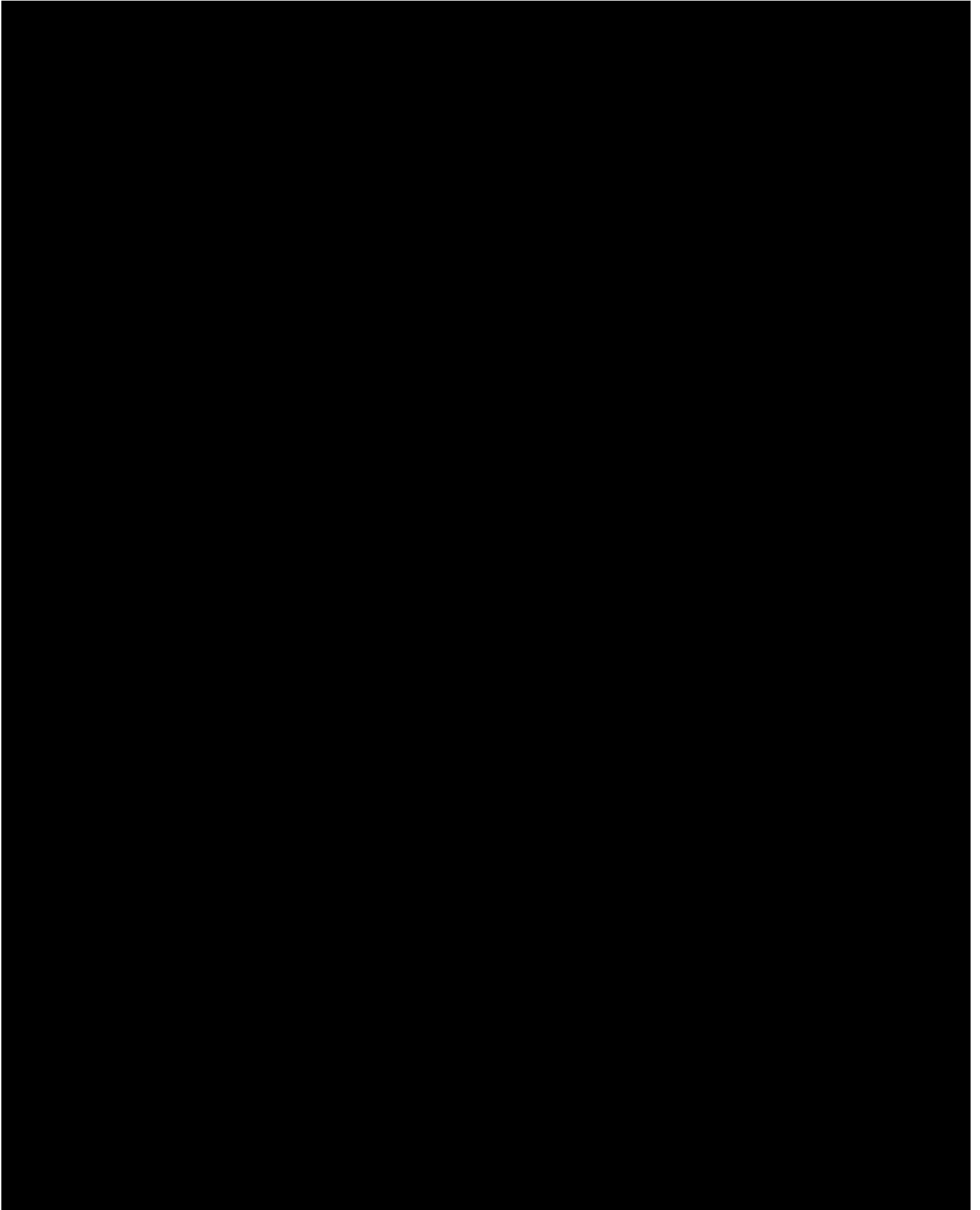


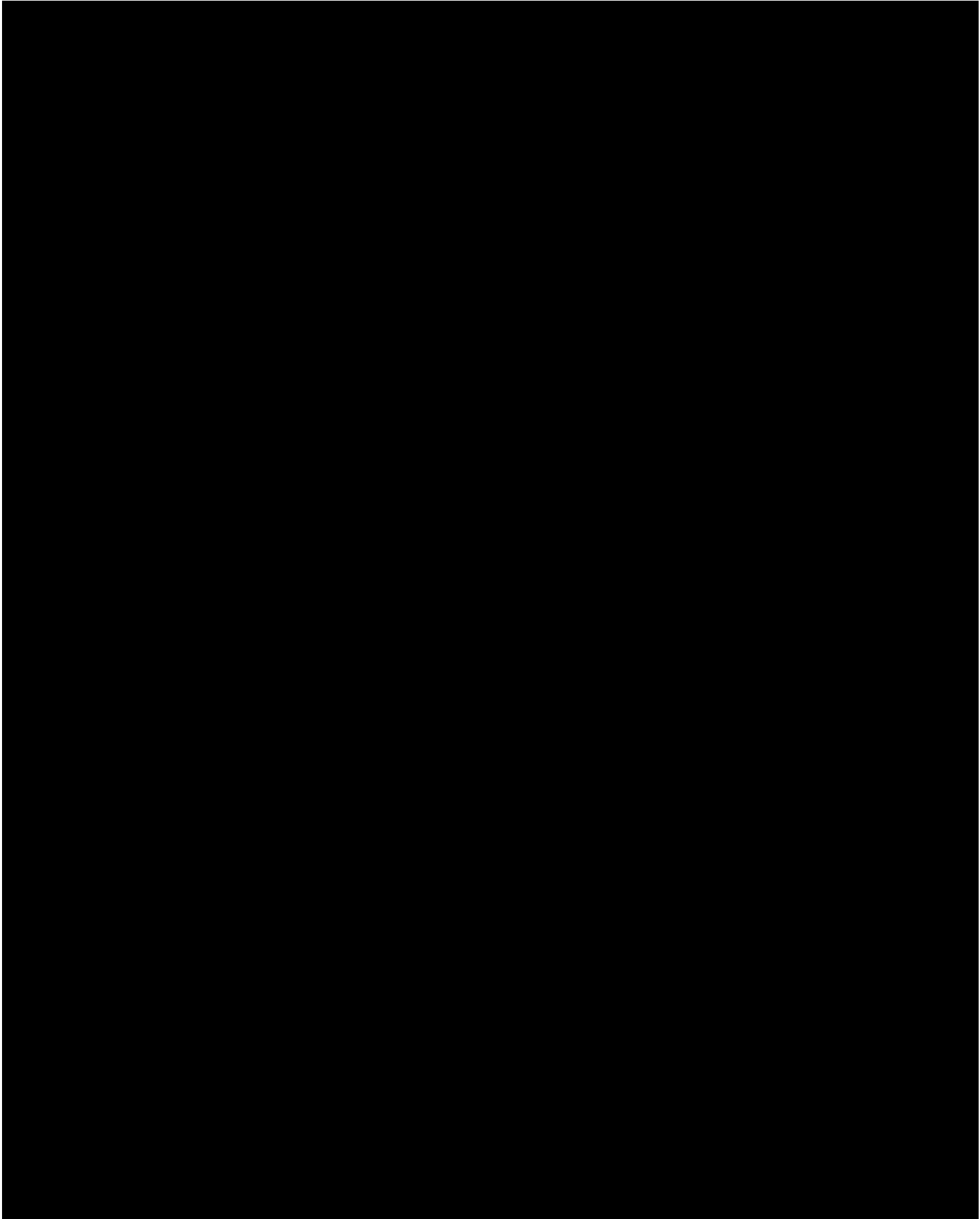


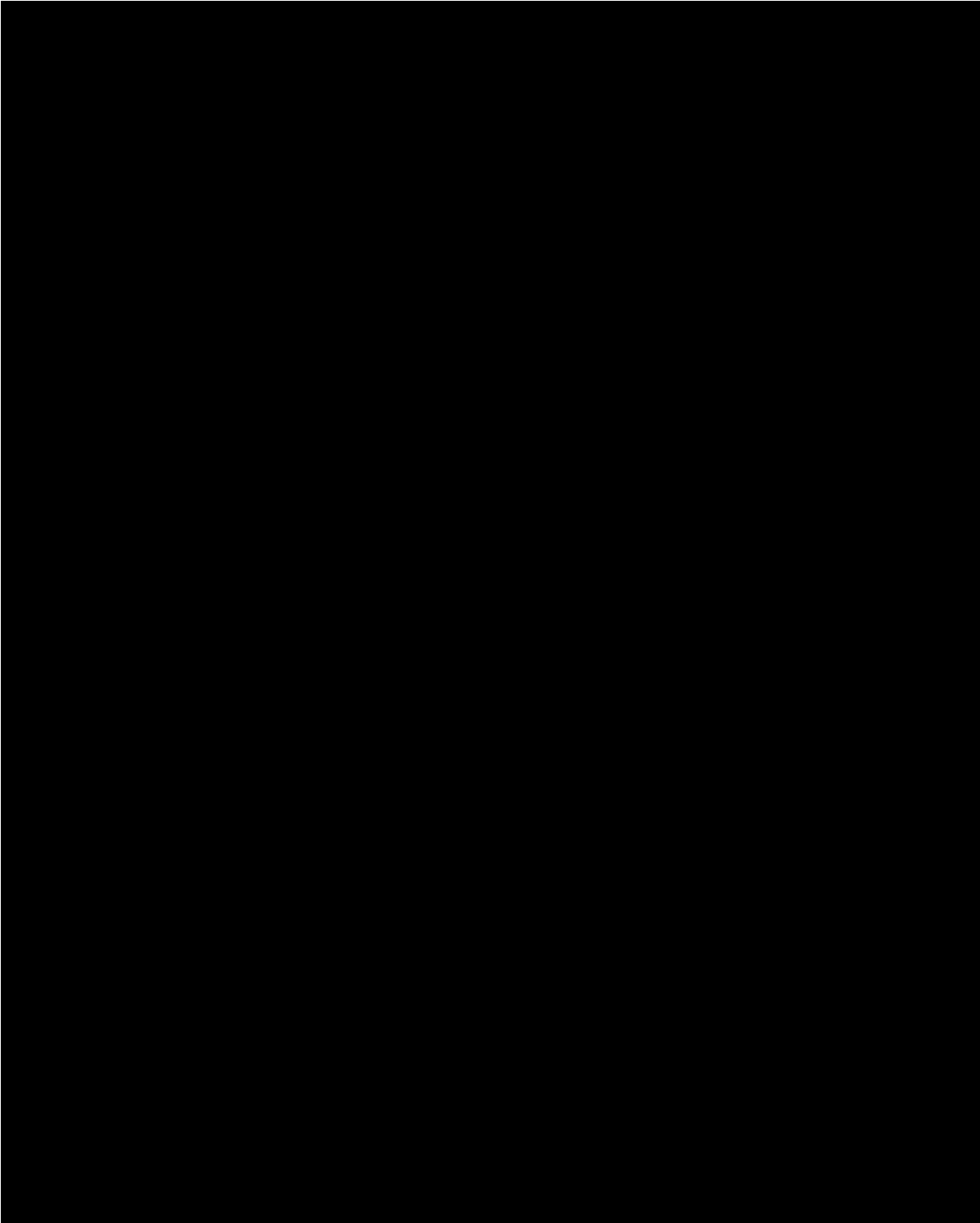


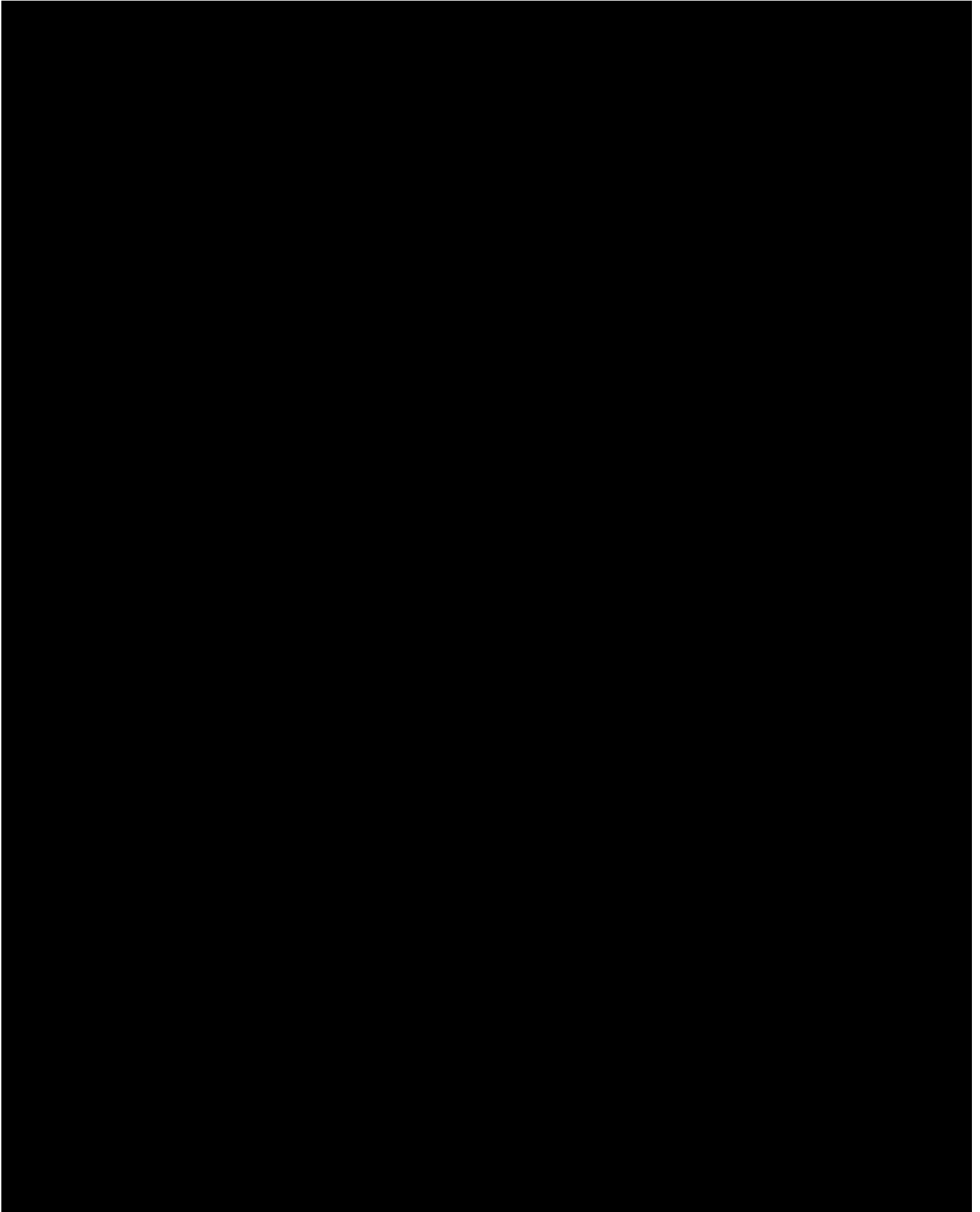


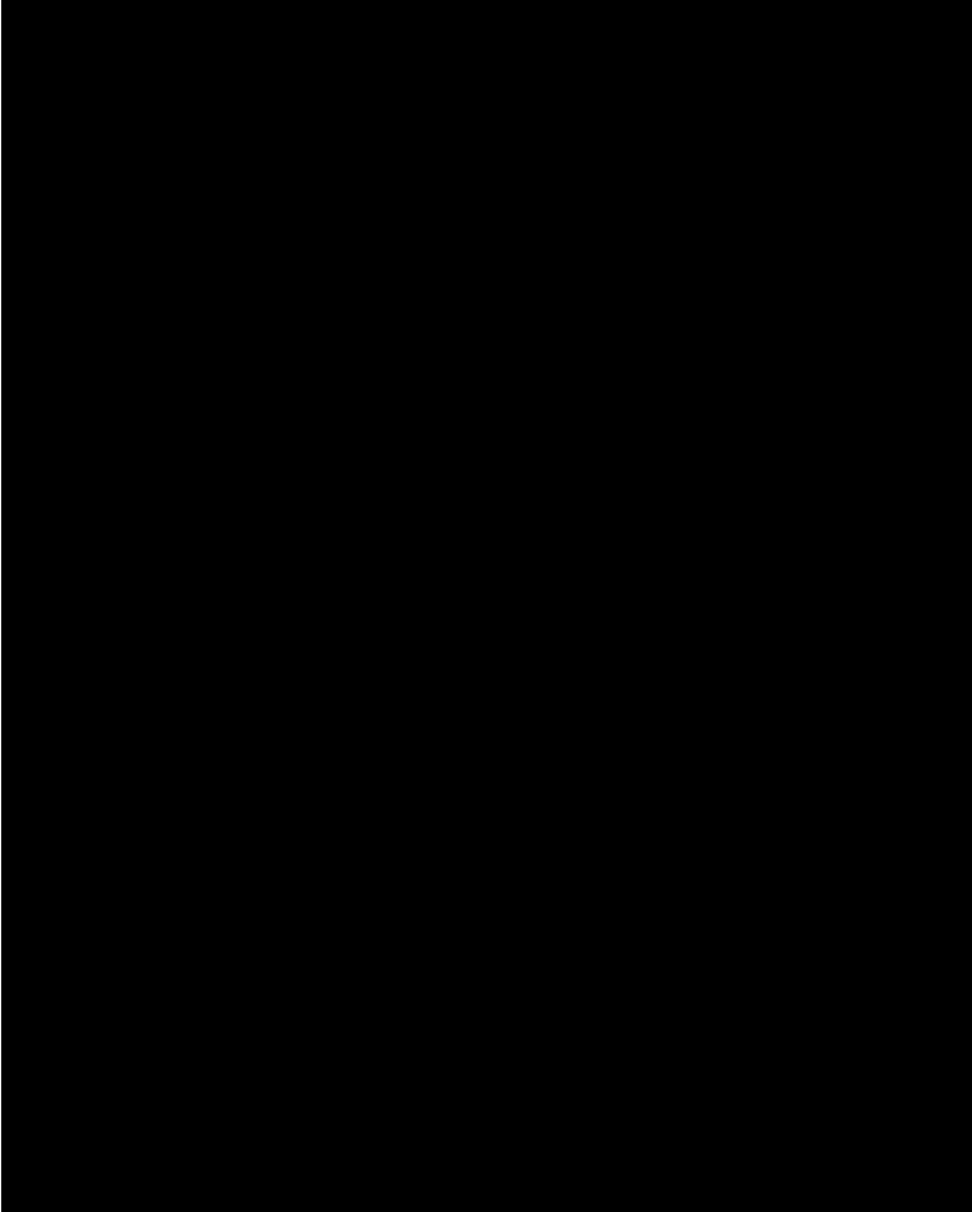


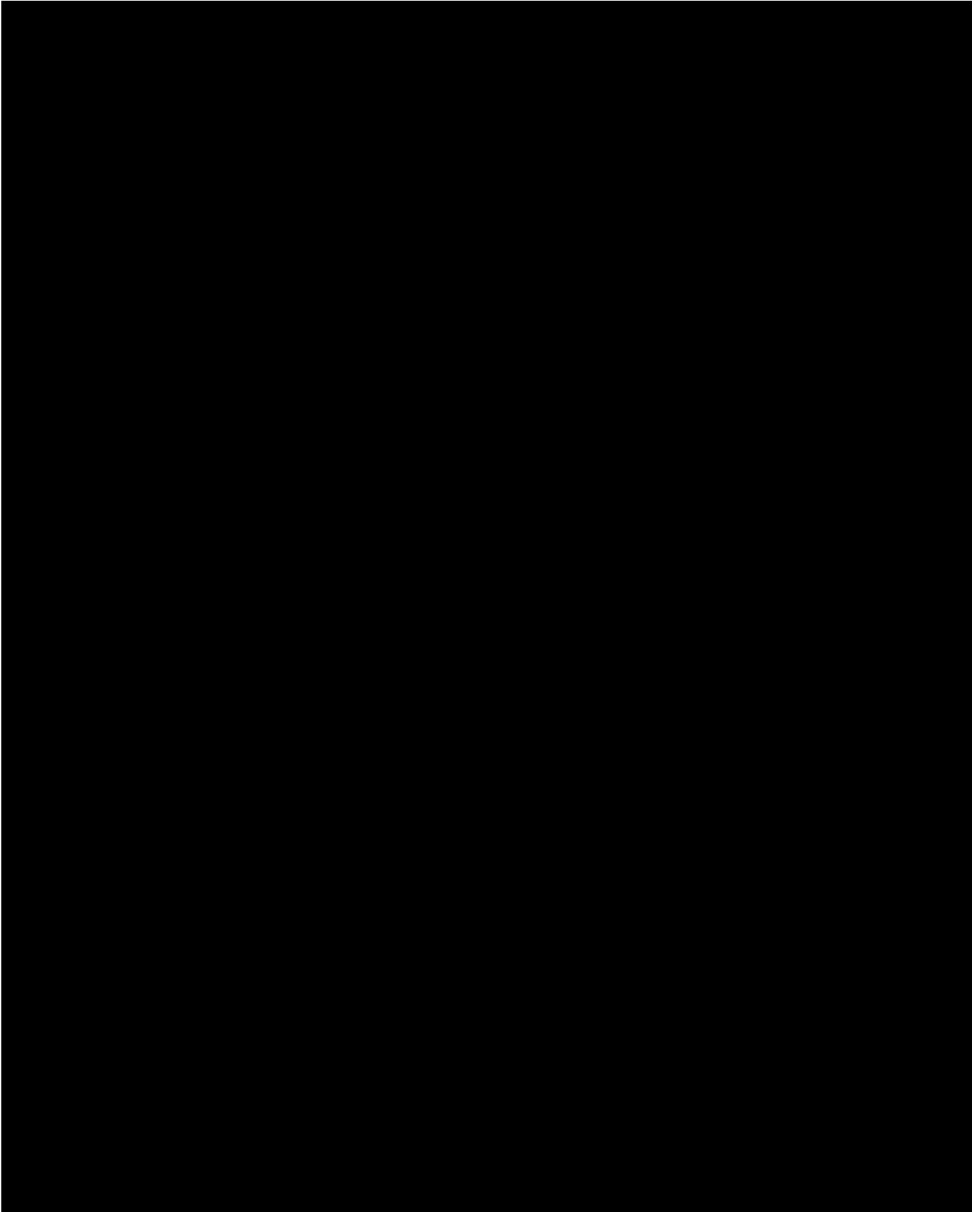


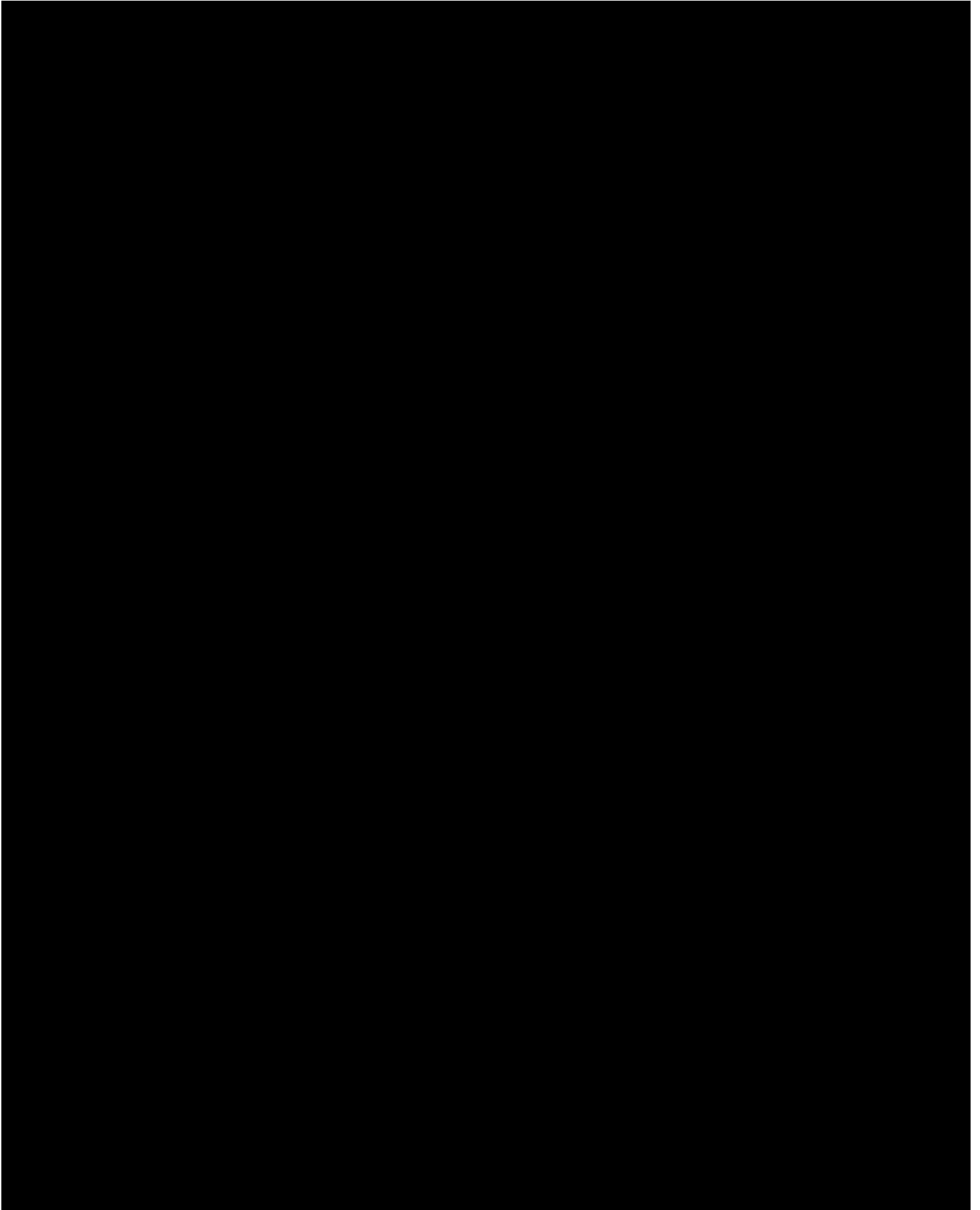


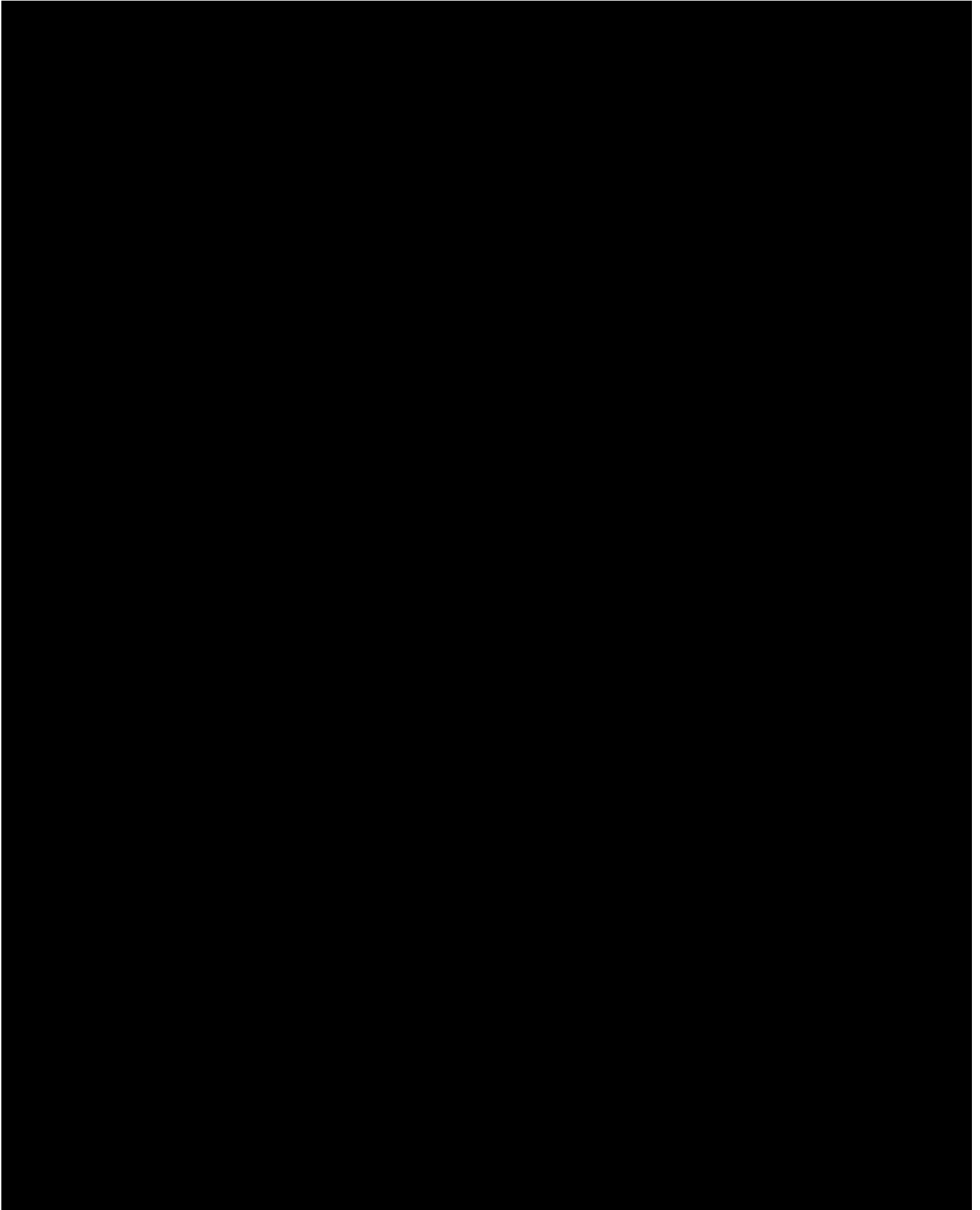


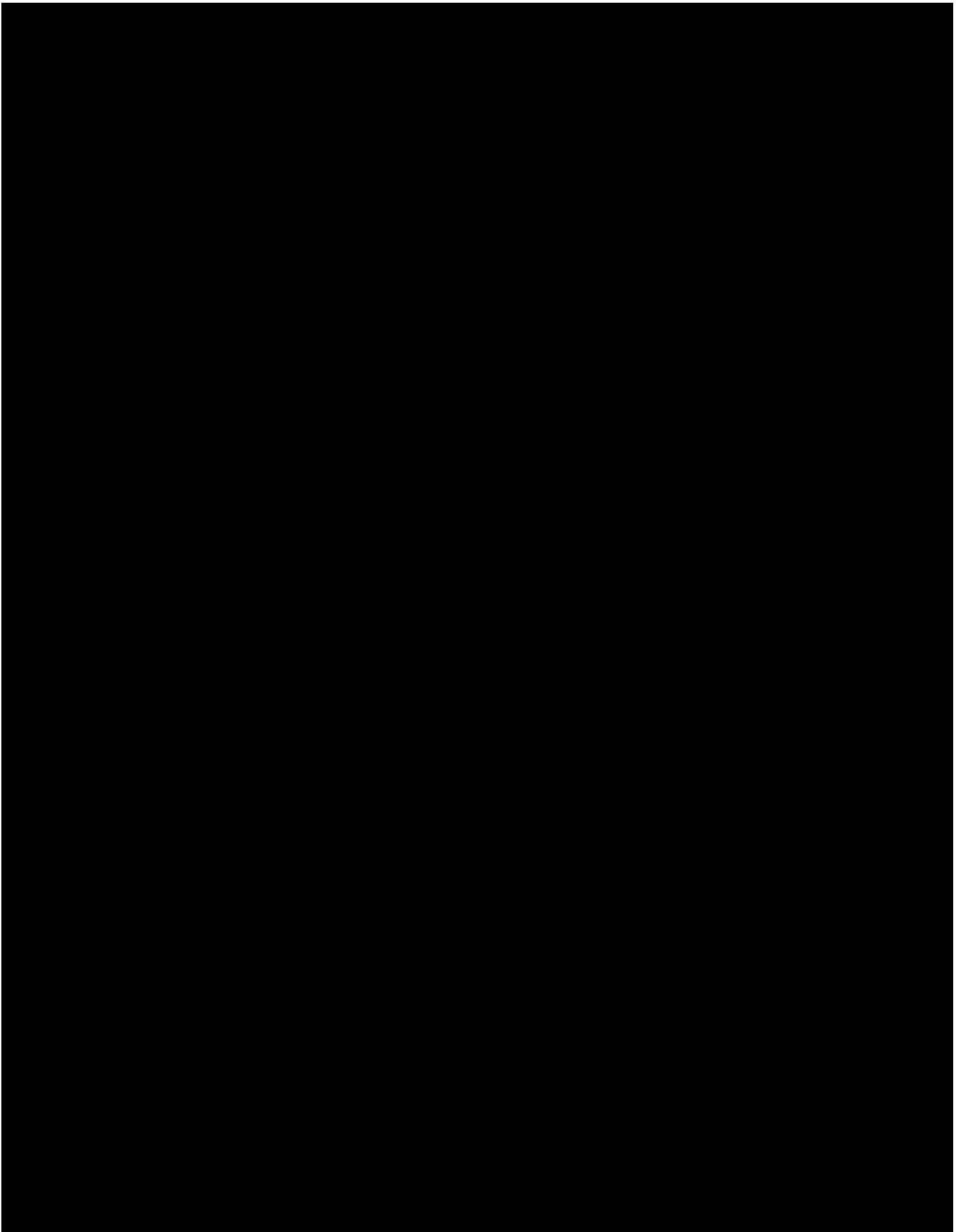












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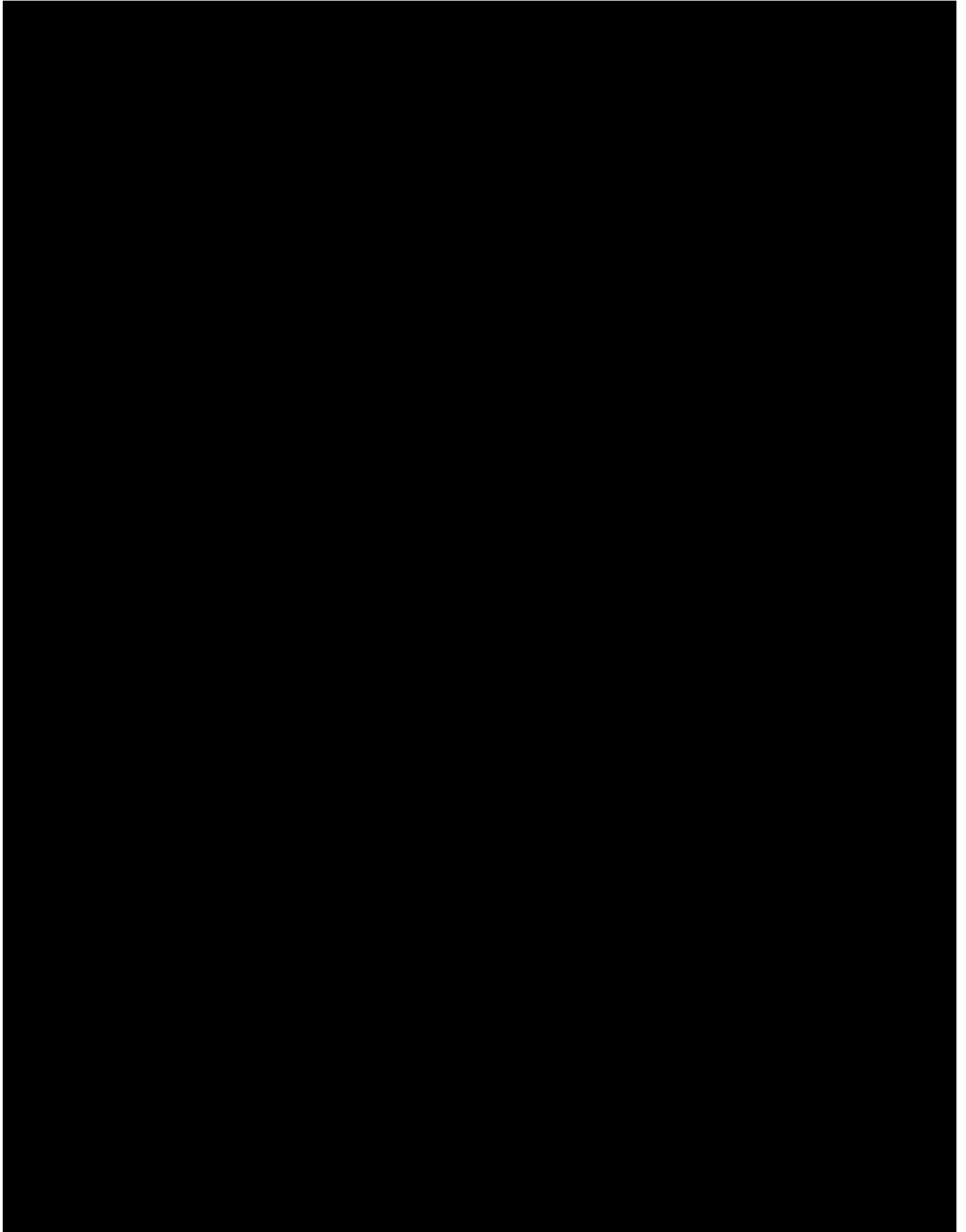
5-29-2009

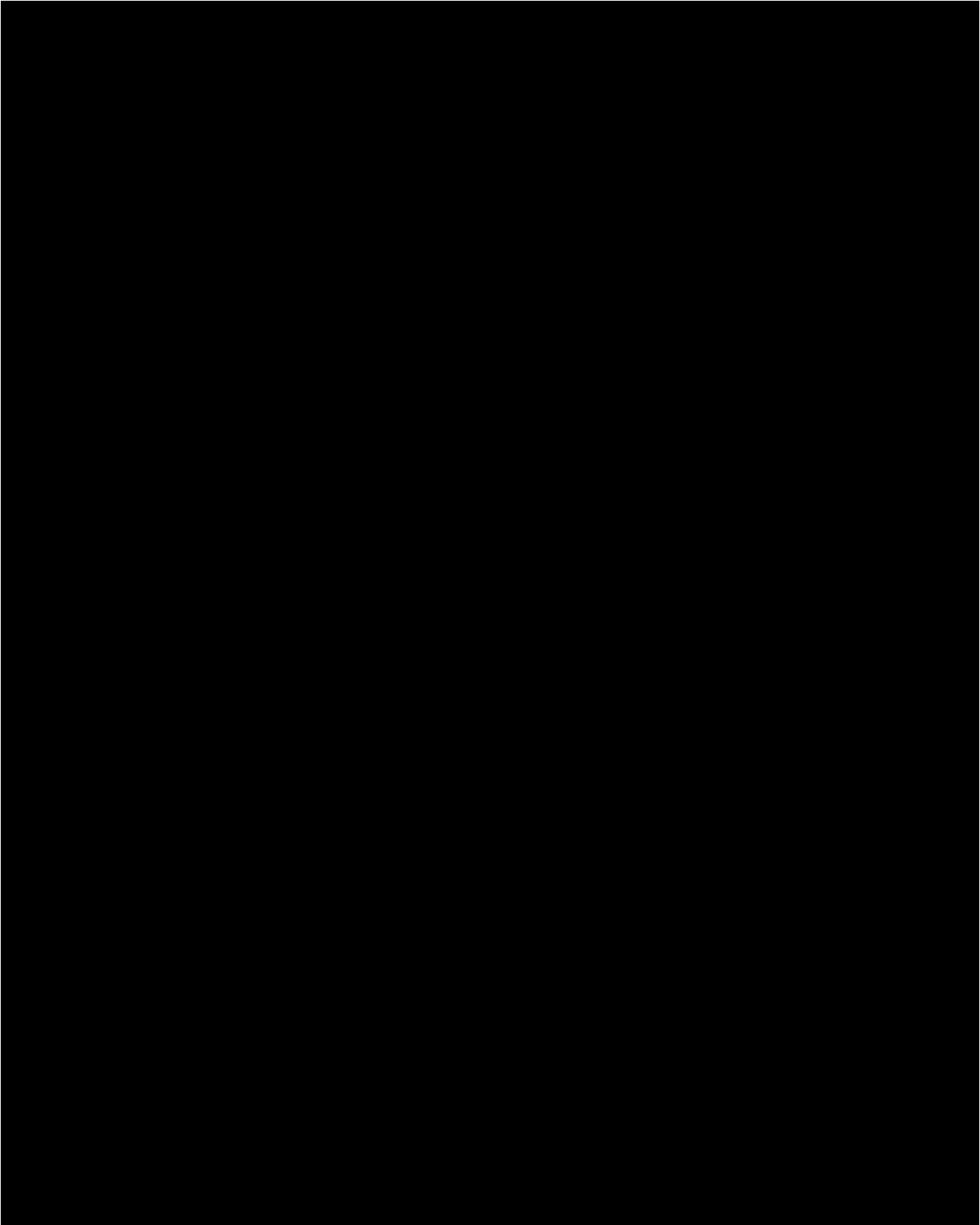
ATTACHMENT Q12

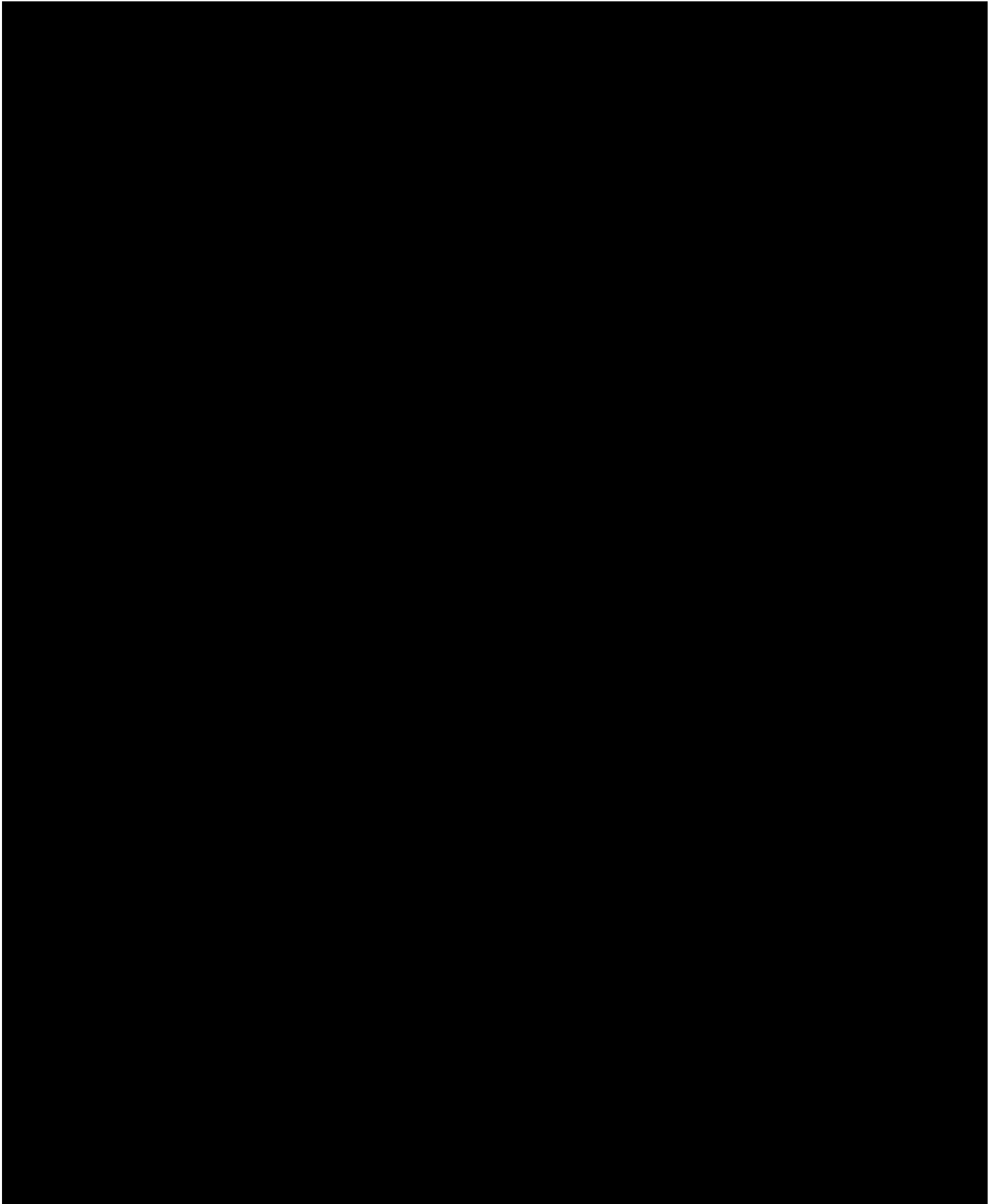
2003 ACCORD TEST

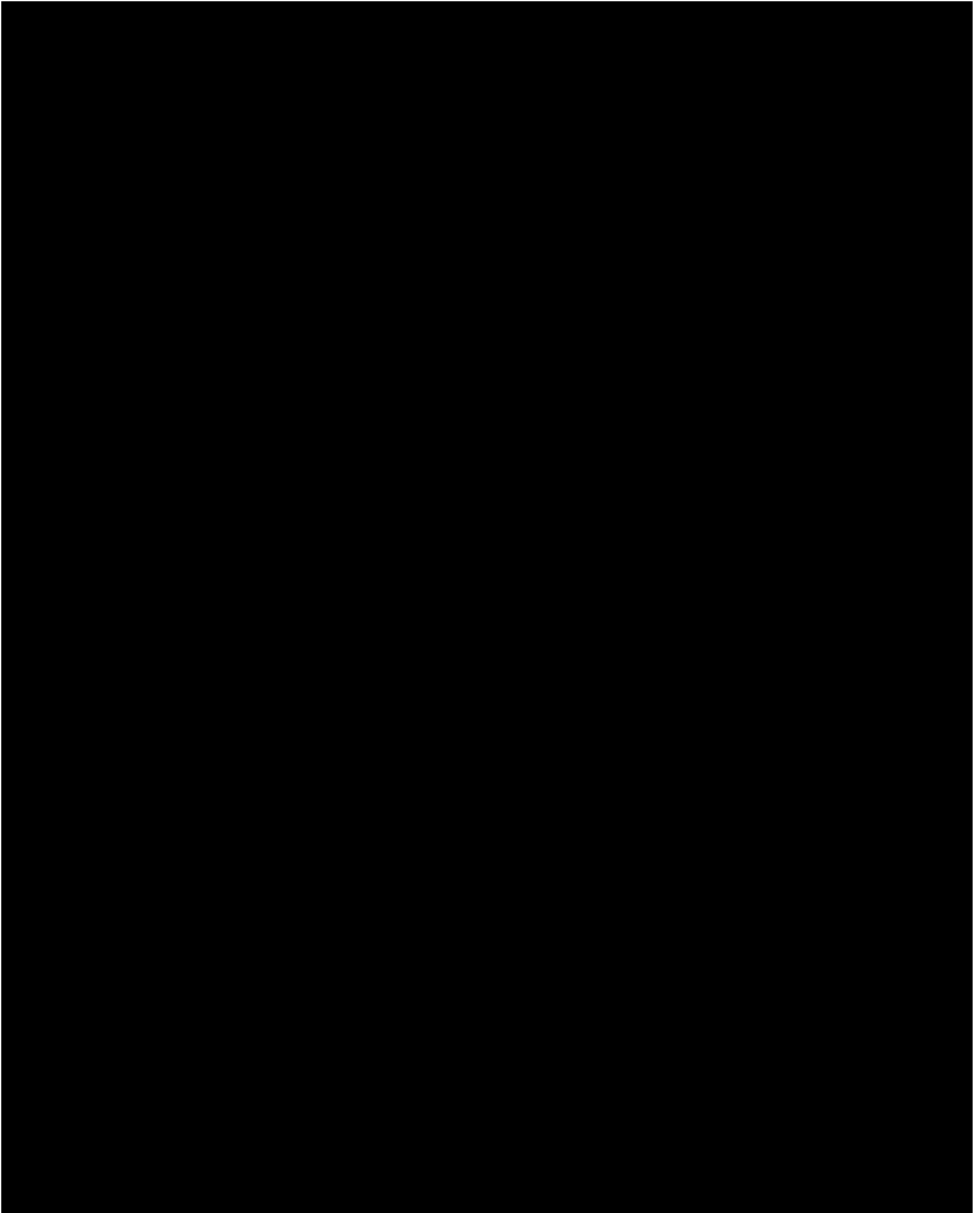
REPORT English

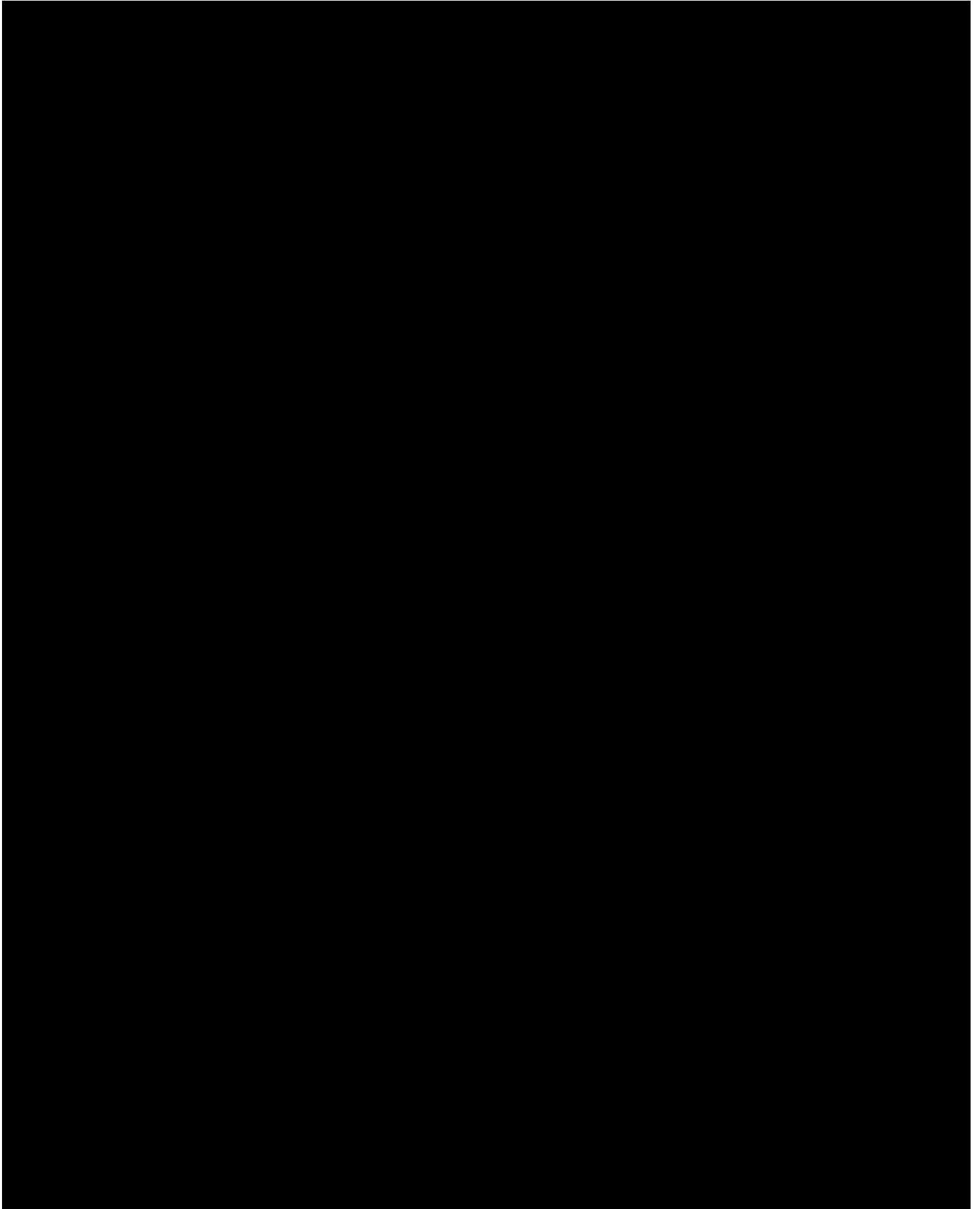
REDACTED

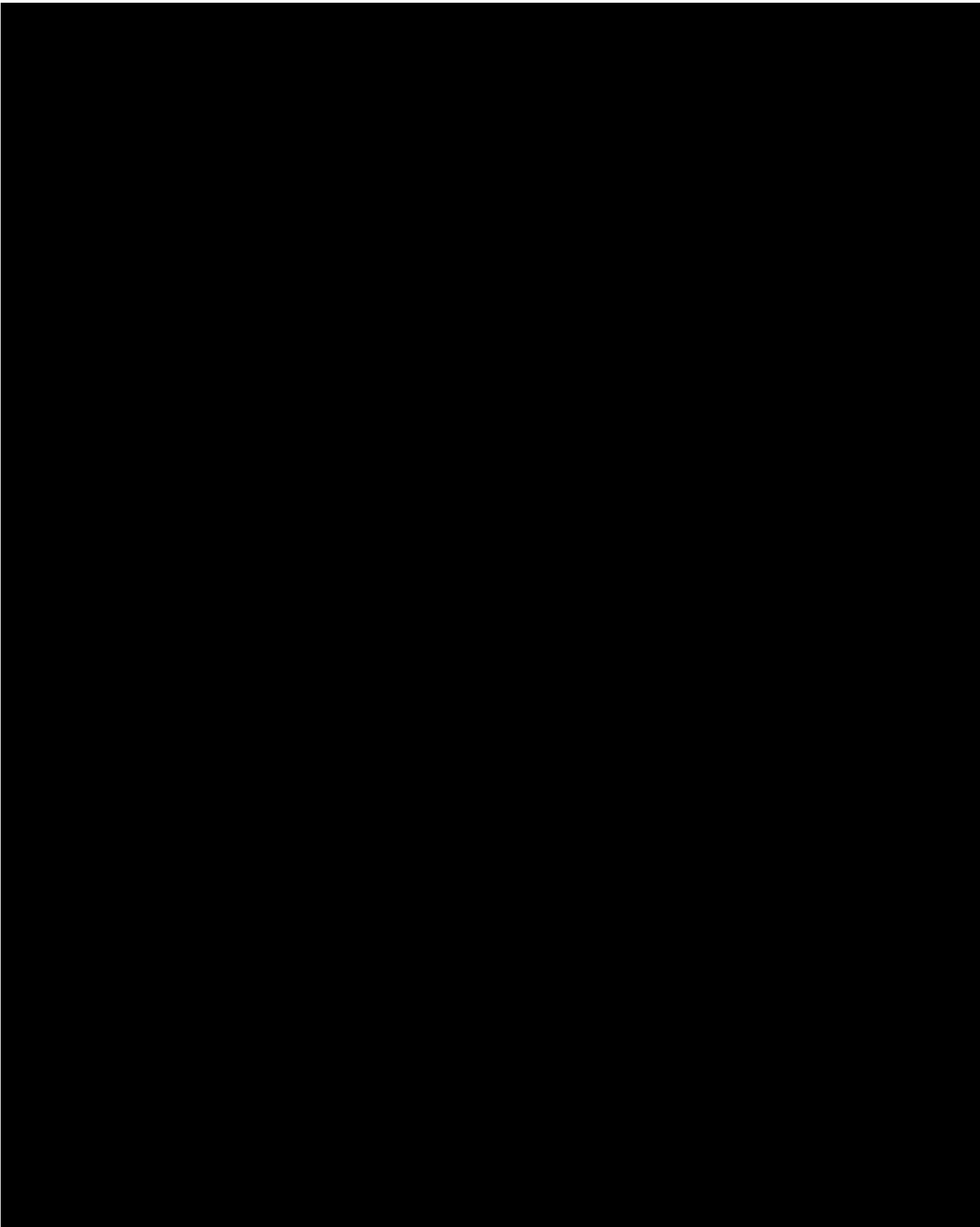


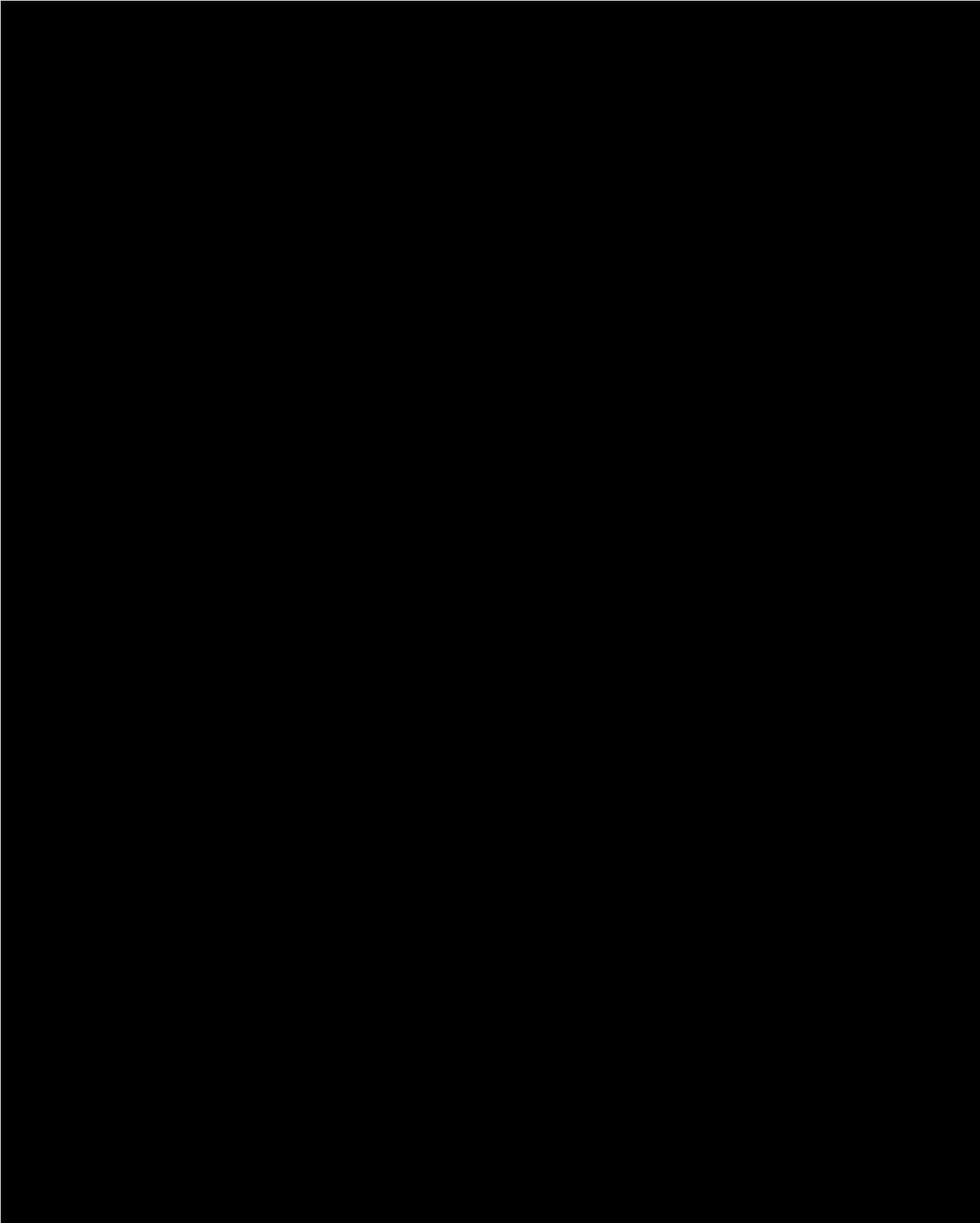


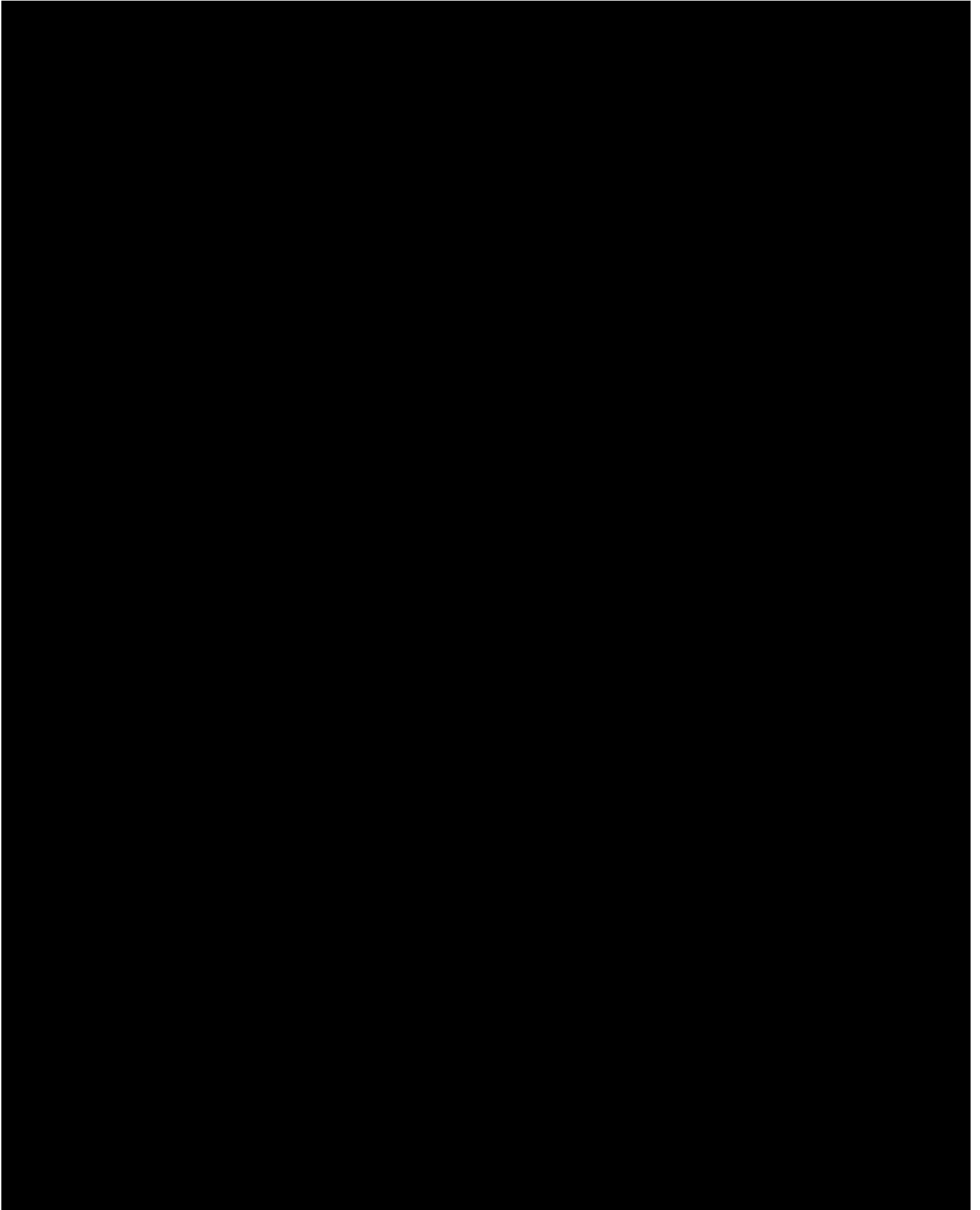


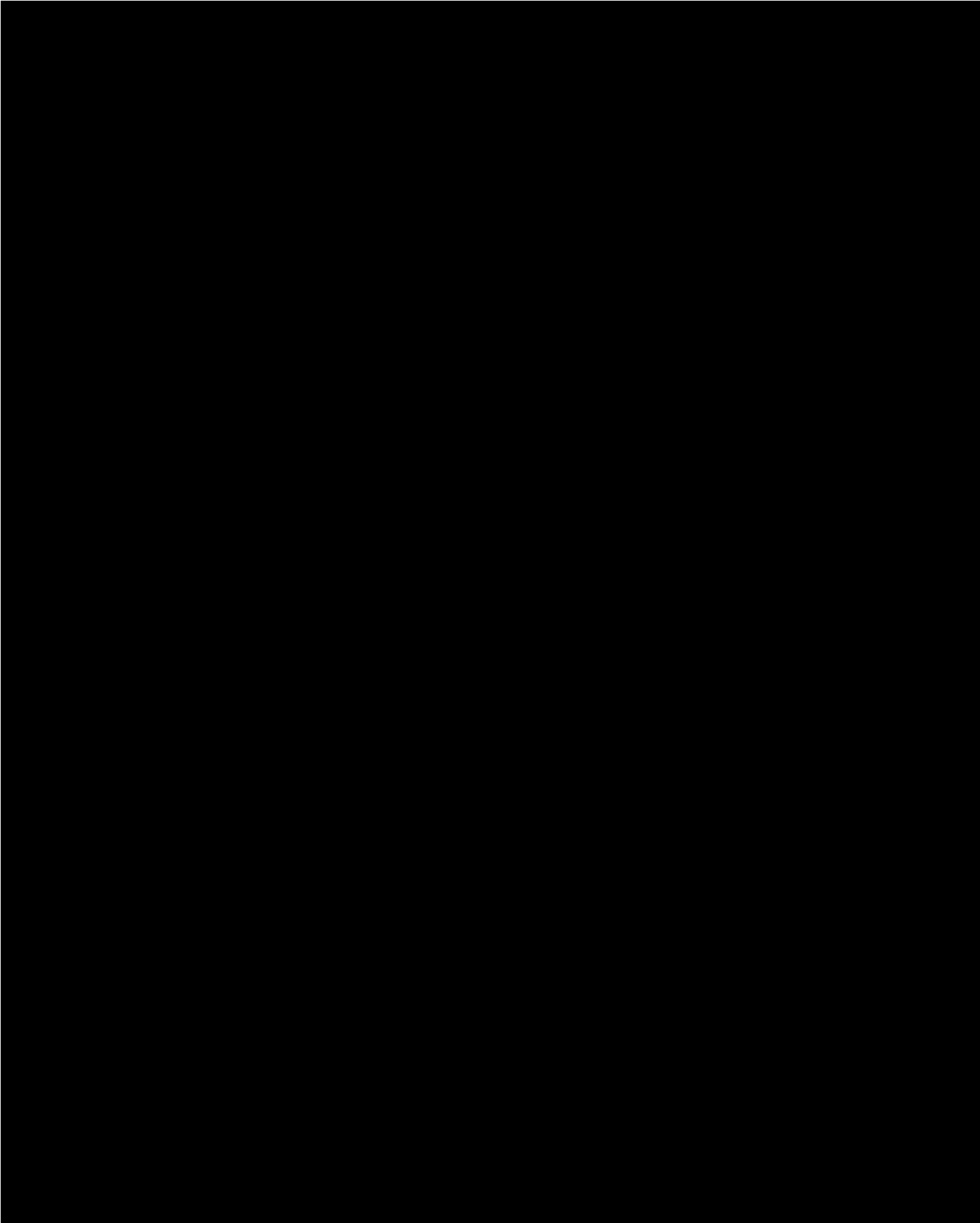


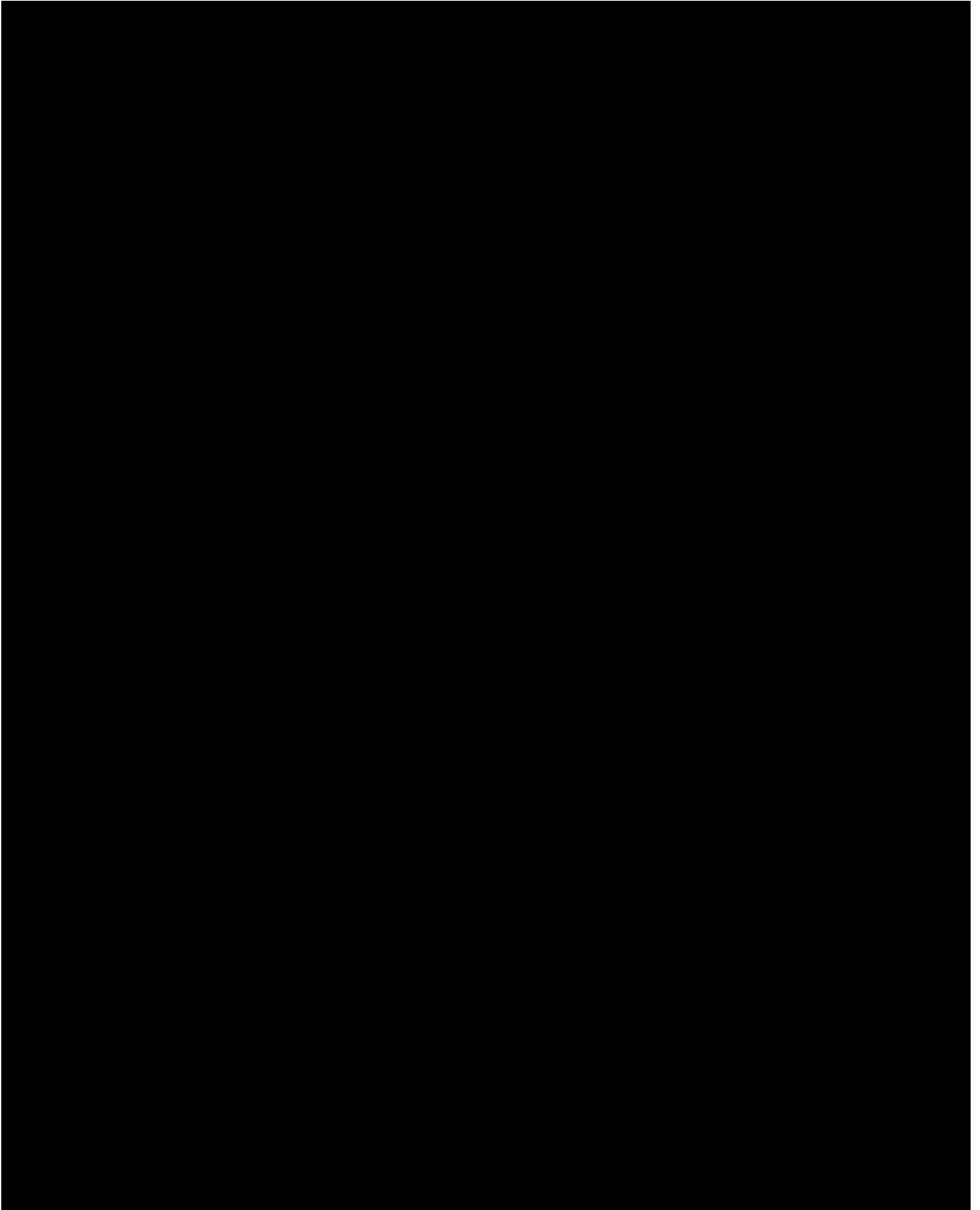


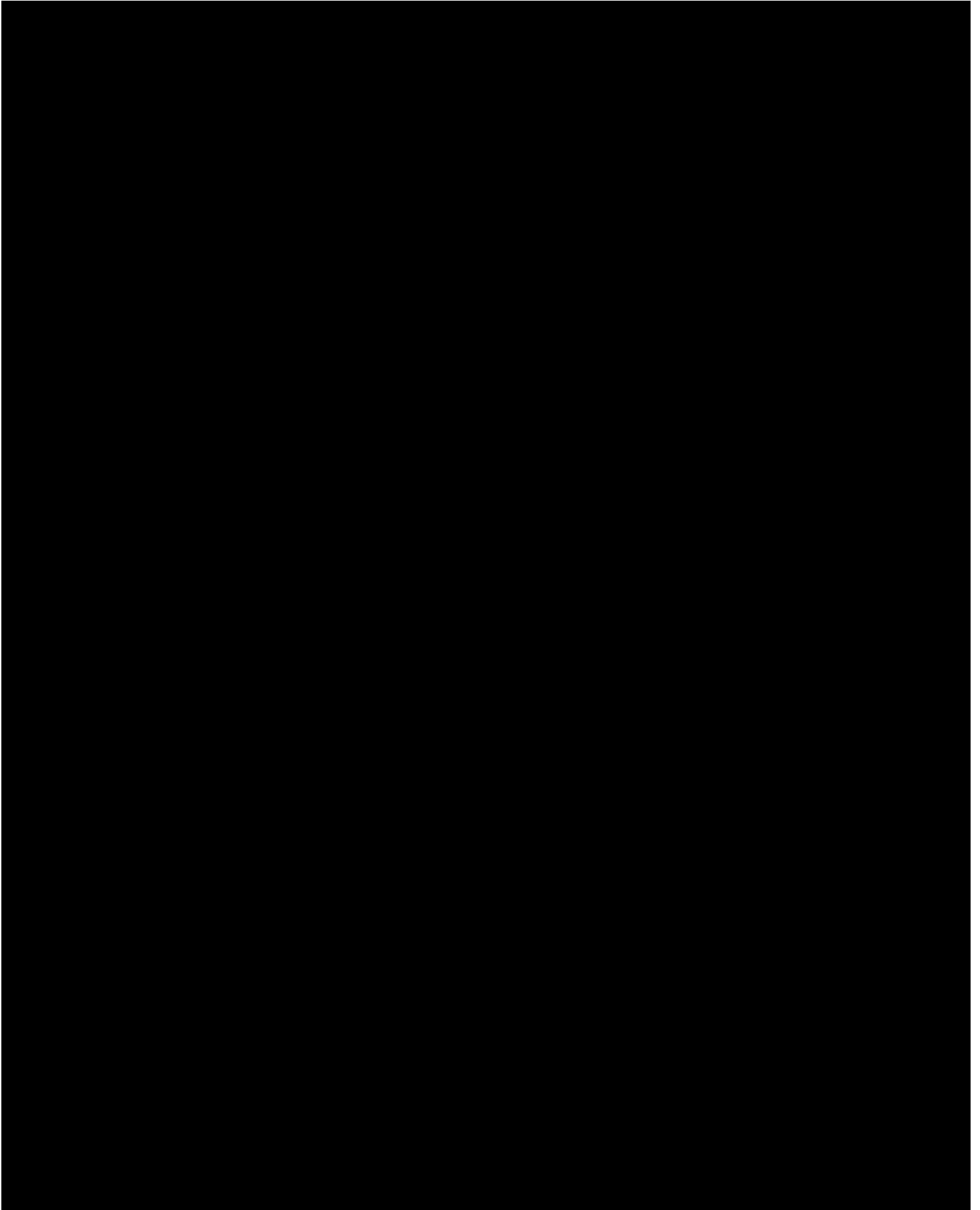


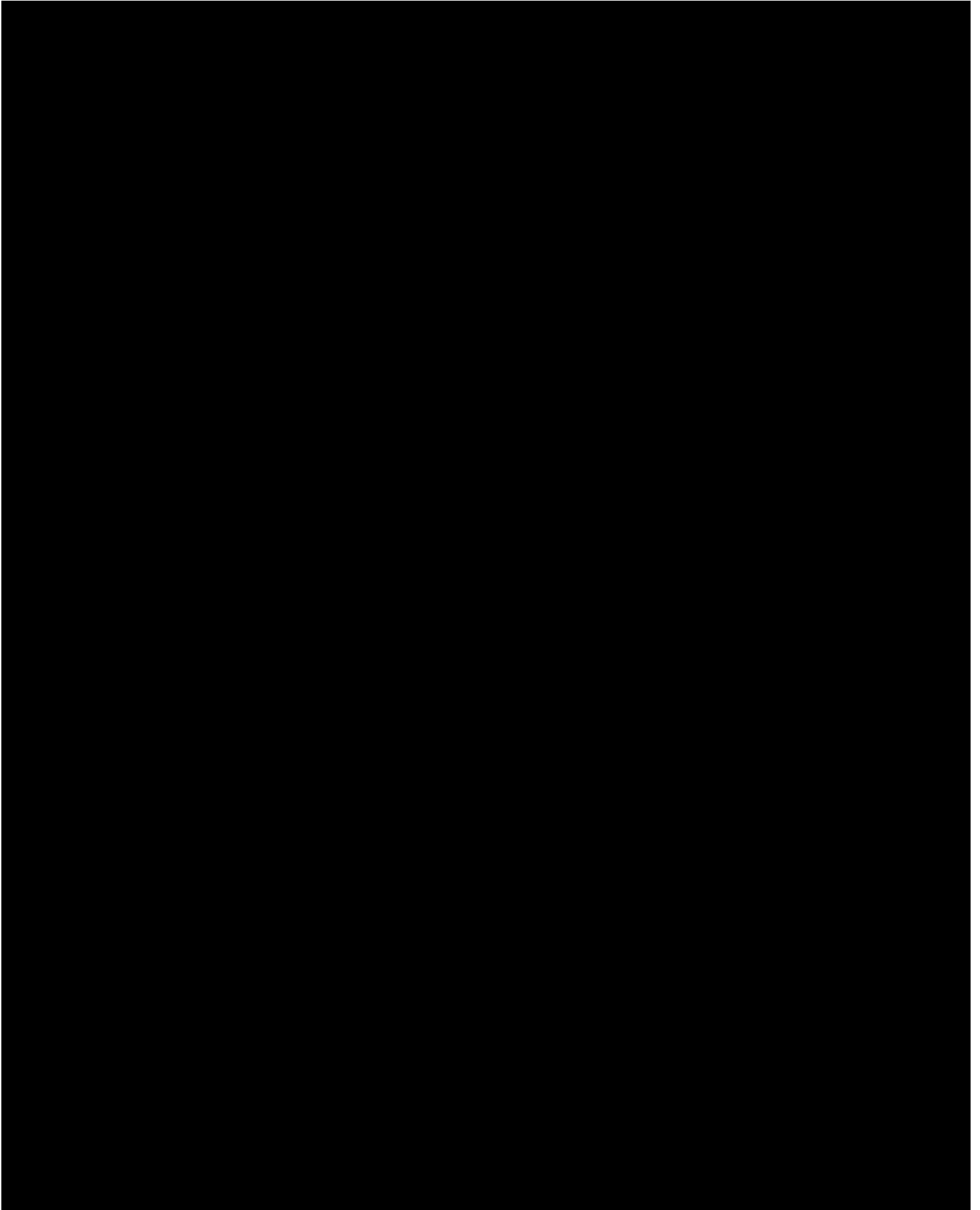


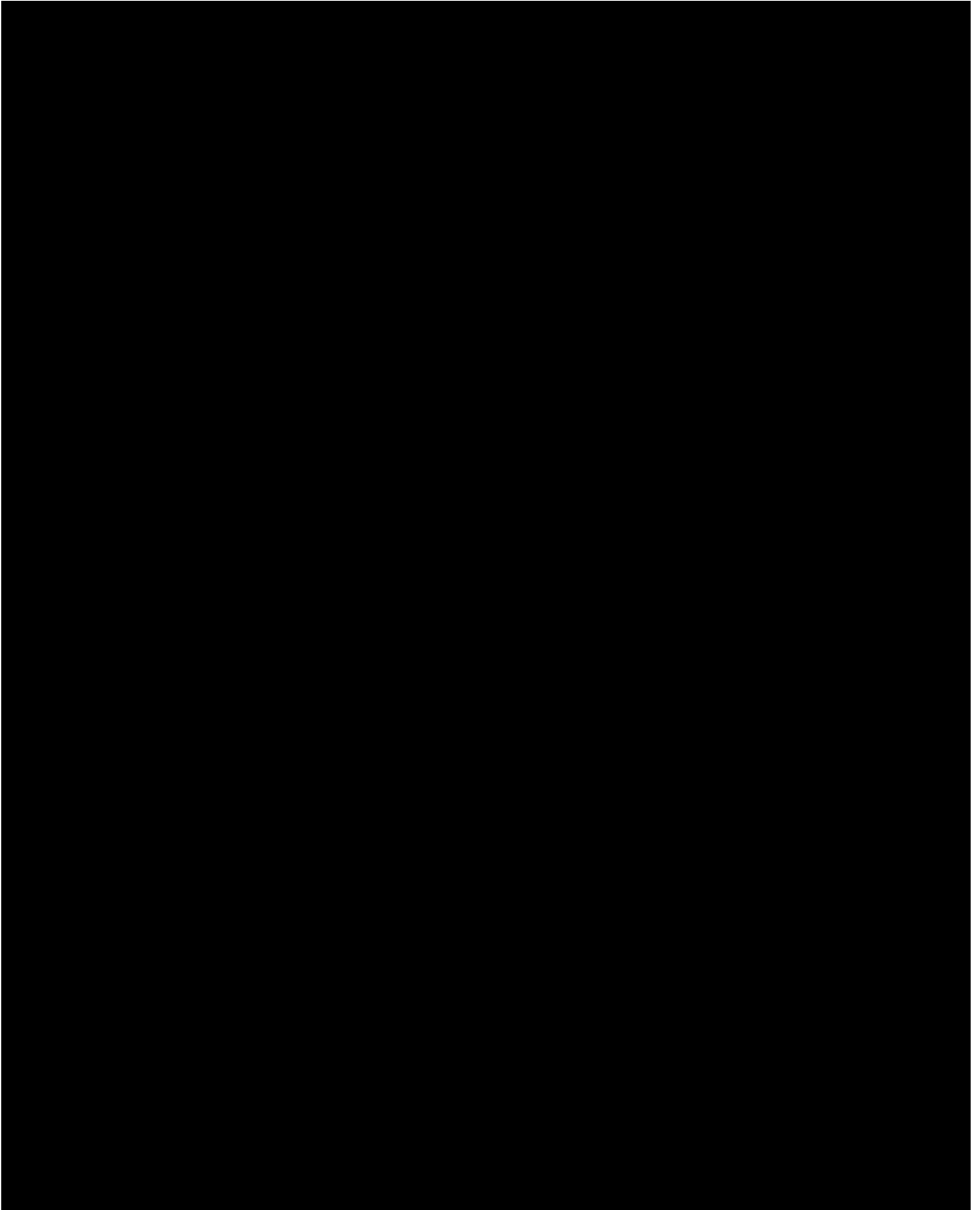


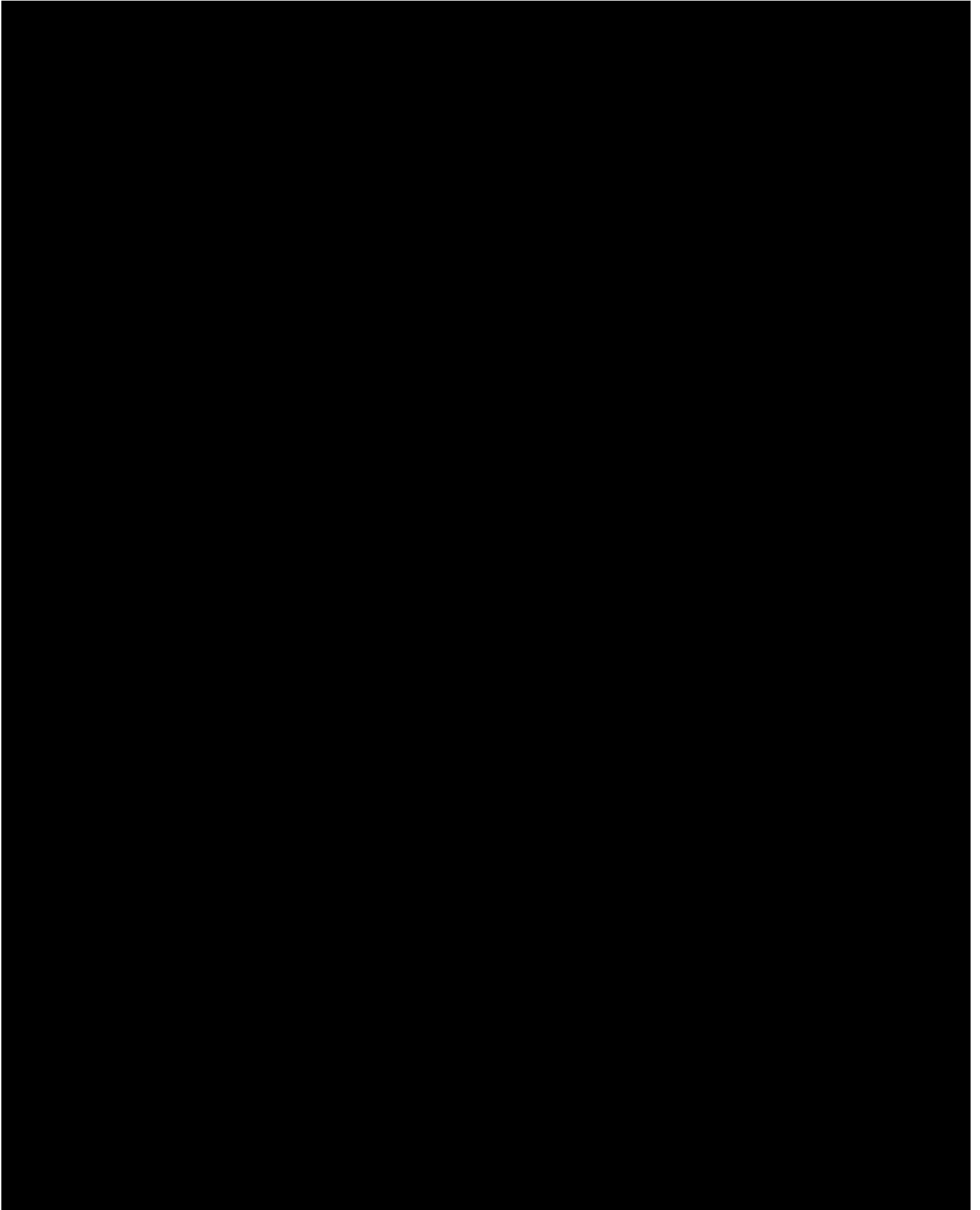


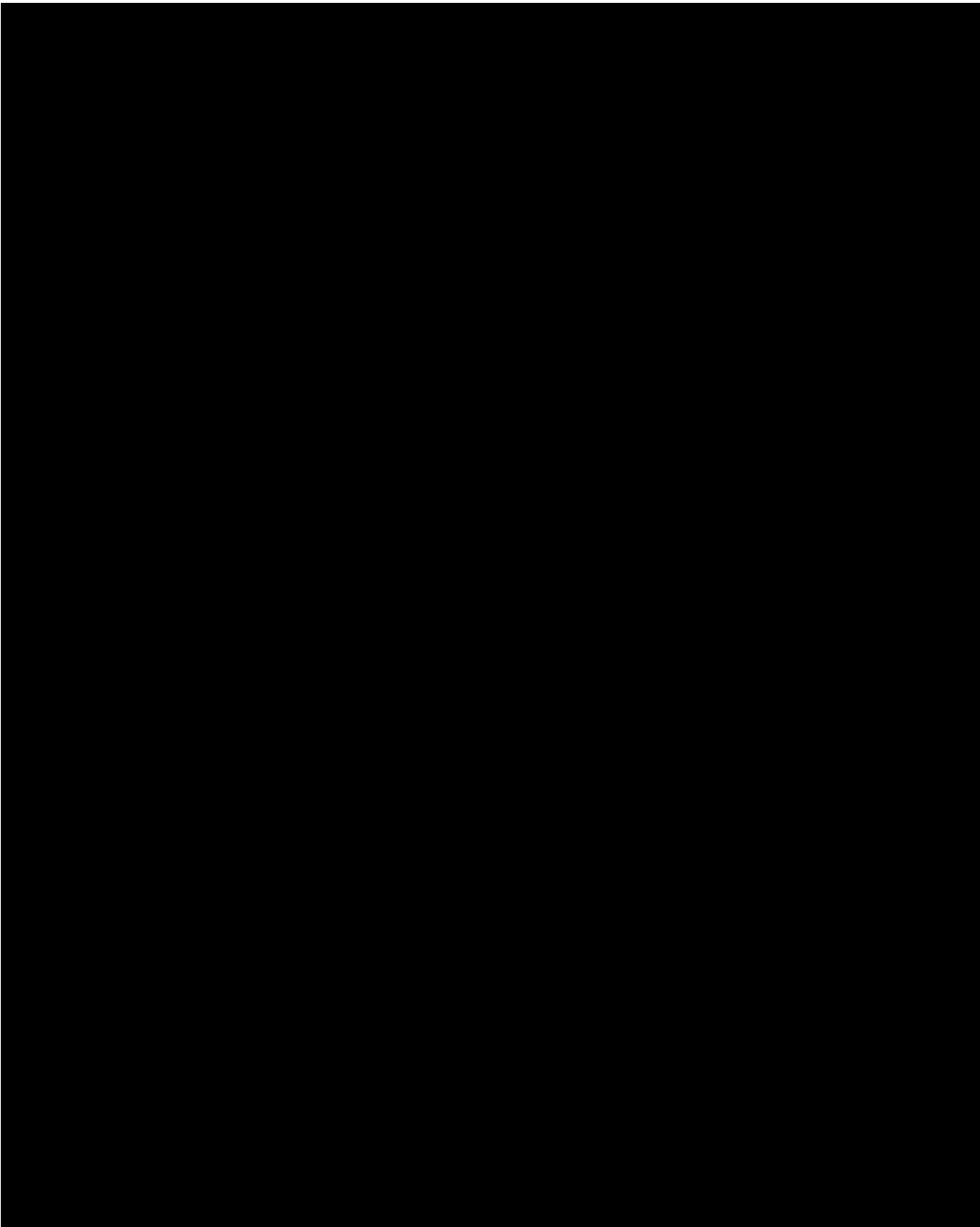


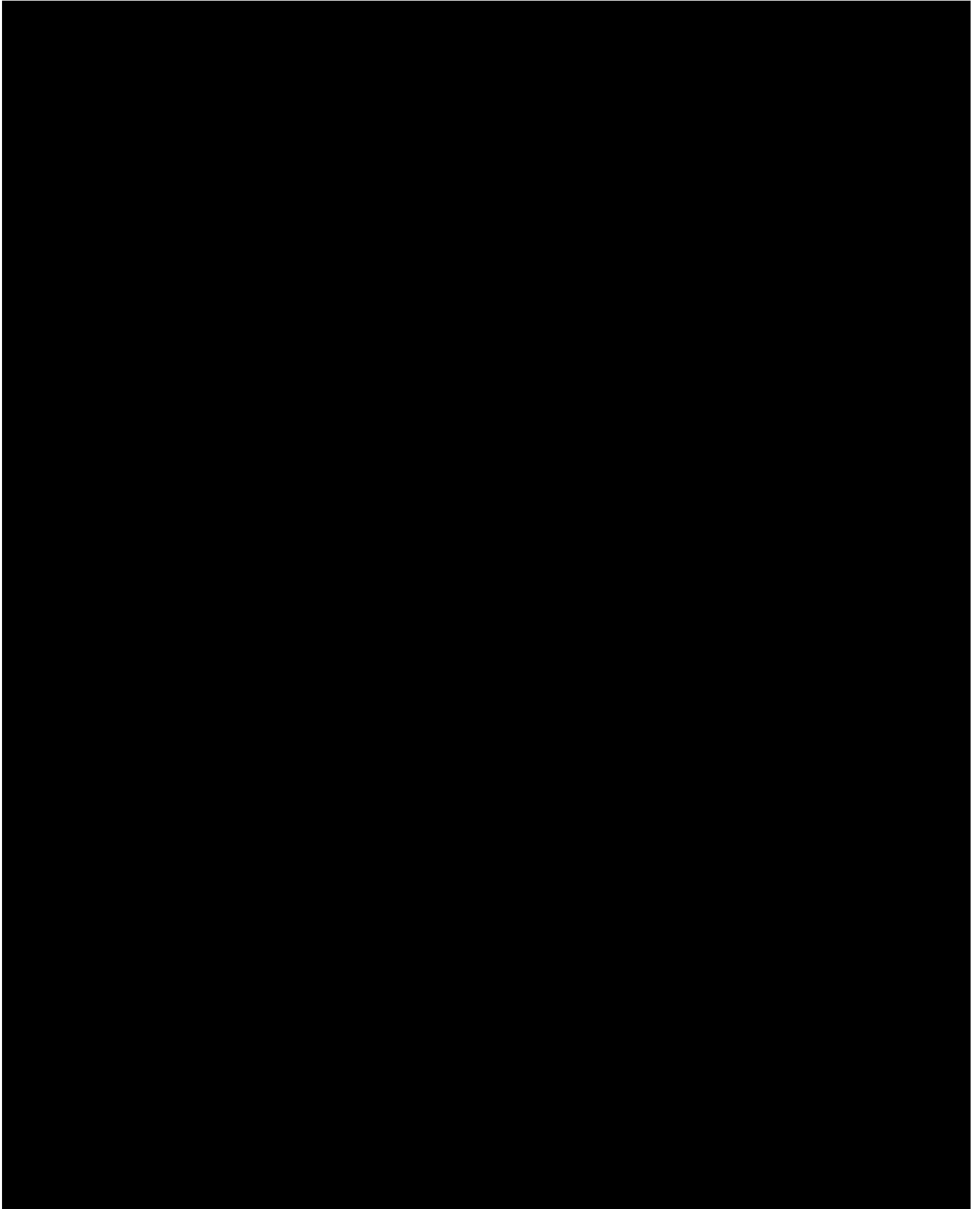


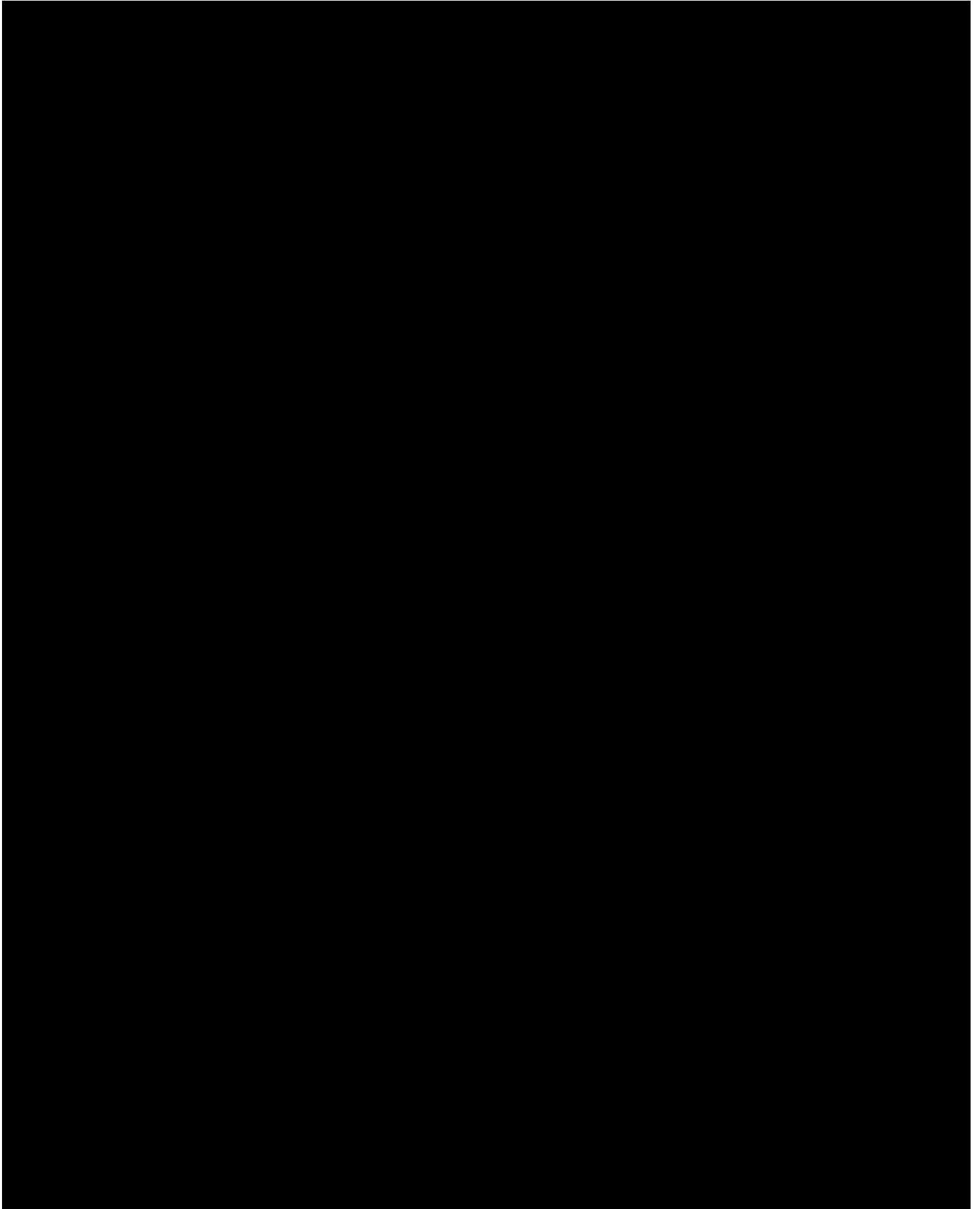


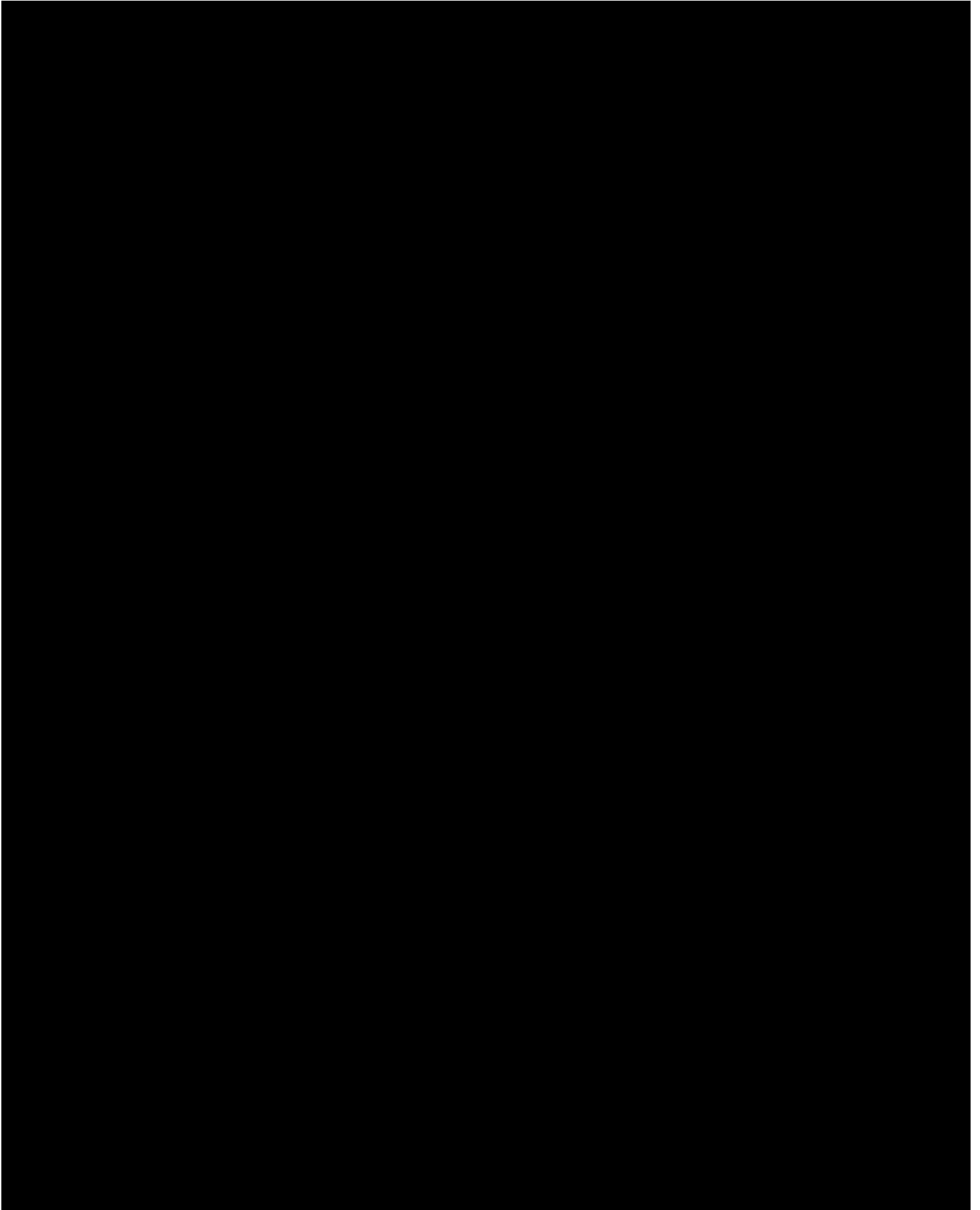


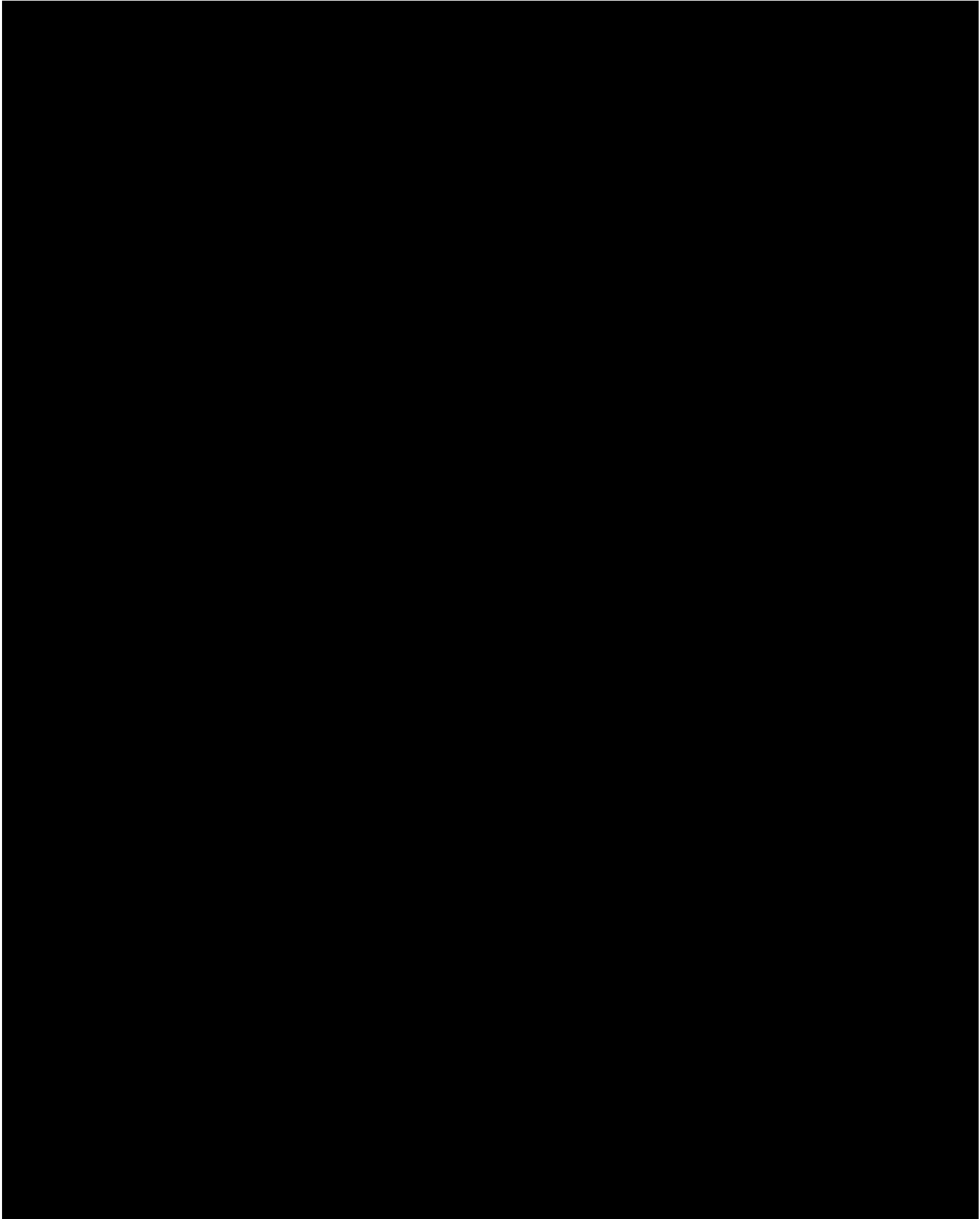


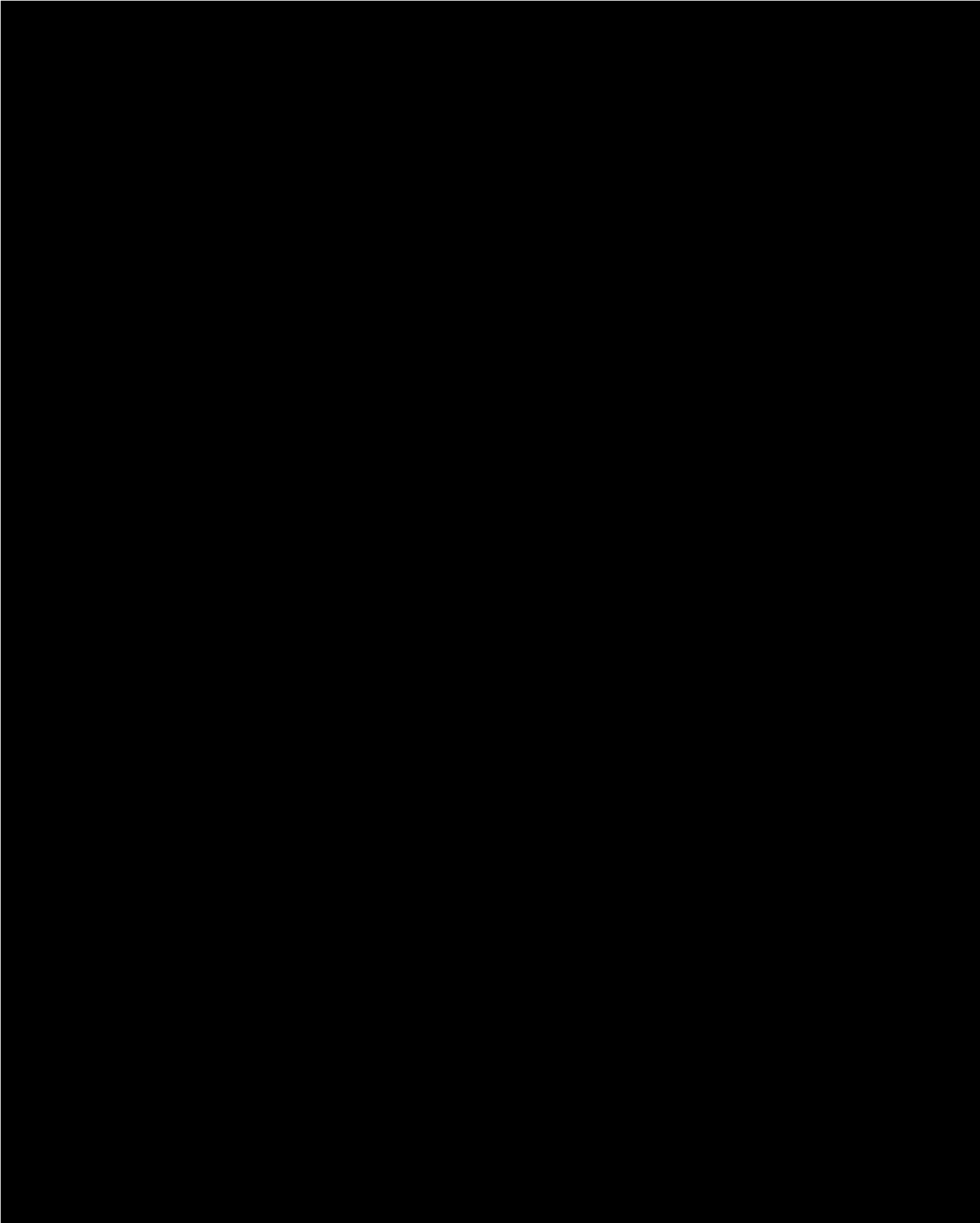












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ATTACHMENT Q13A

English REDACTED

S5A type Occurrence mechanism

Newly found mechanism in addition to the previous mechanism report to NHTSA

S5A Occurrence mechanism

0⇌1

Interlock operates

0

1

Key
position



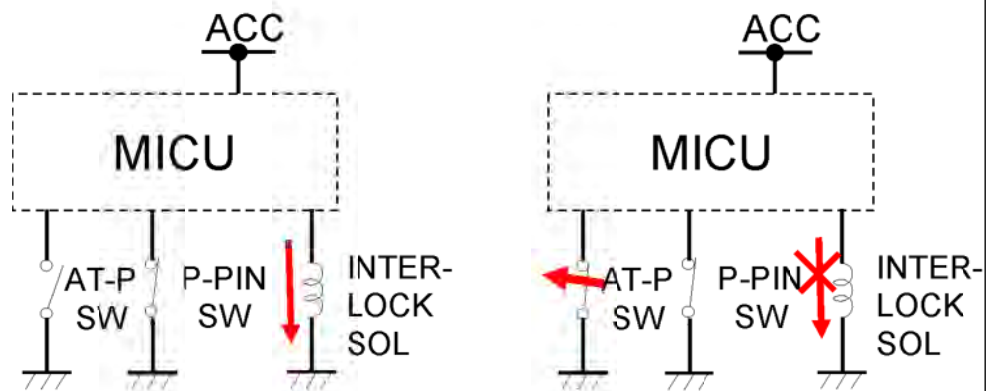
Lever
condition



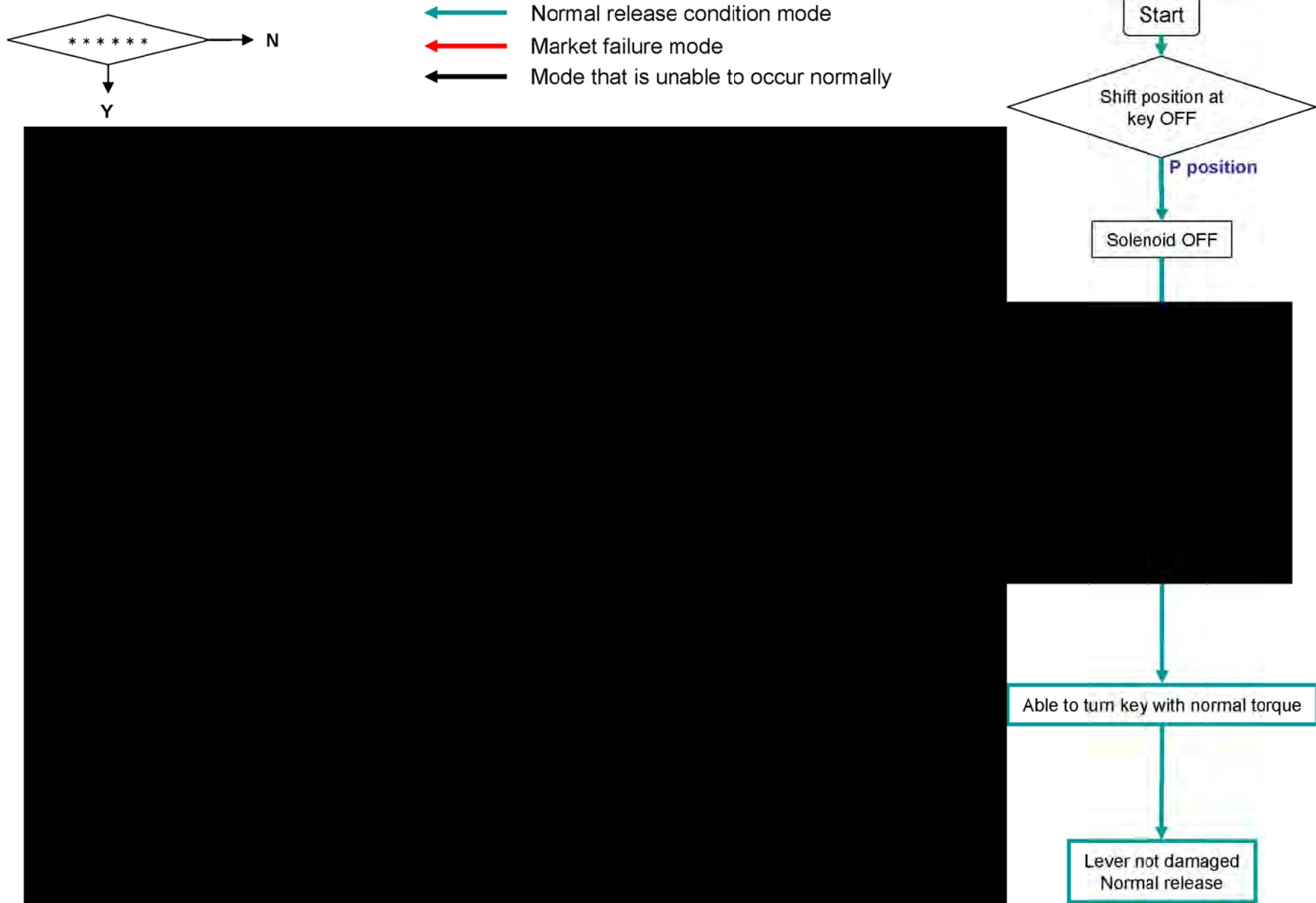
IGN SW
Cam tip and click ball

S5A Occurrence mechanism

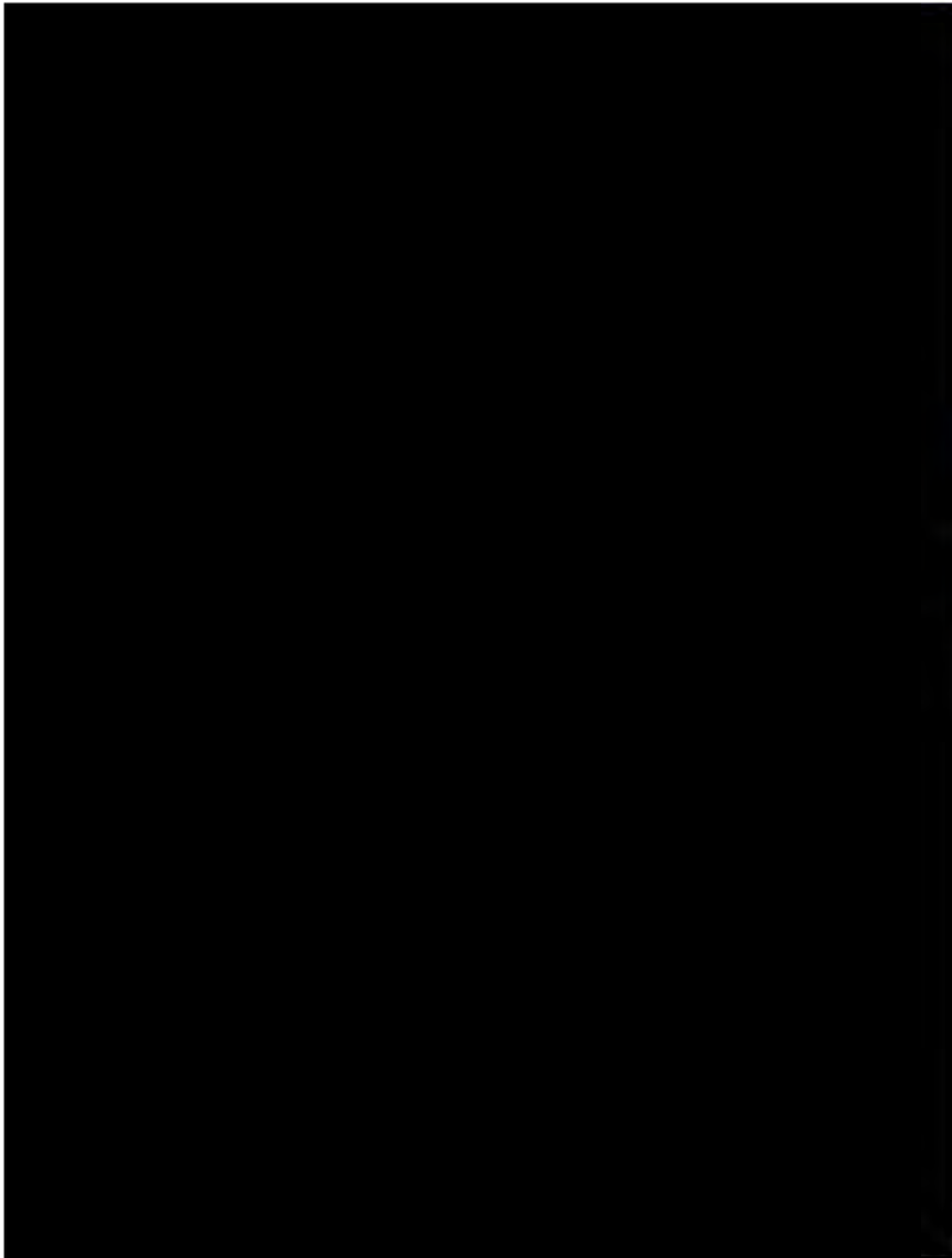
0⇌1



Occurrence mechanism S5A type ('03 ACCORD, '02'03 CIVIC, '03'04 ELEMENT)



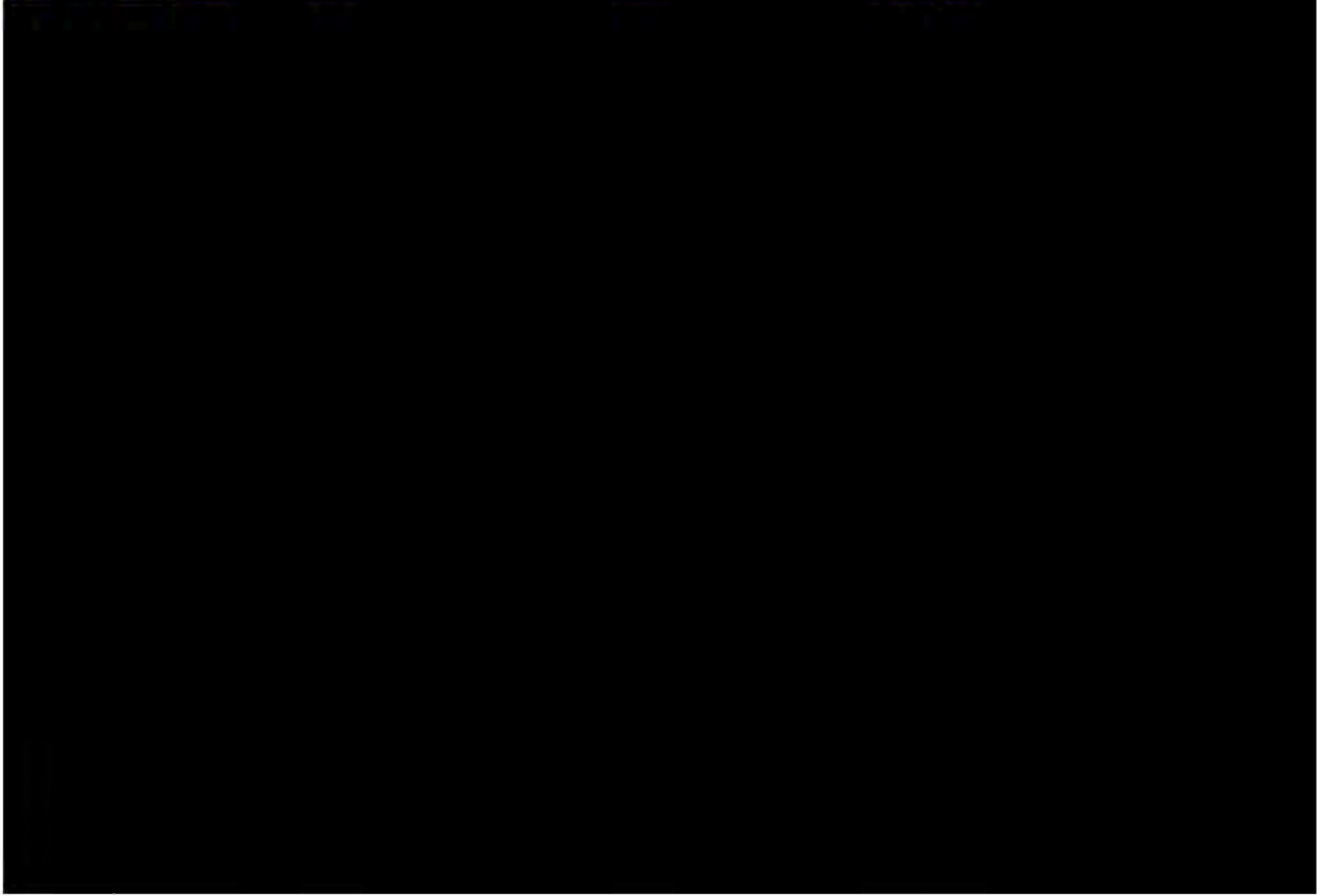
Occurrence mechanism S5A type Monitor & duplicate test result



Occurrence mechanism S5A type Duplicate test result

(B) (E)

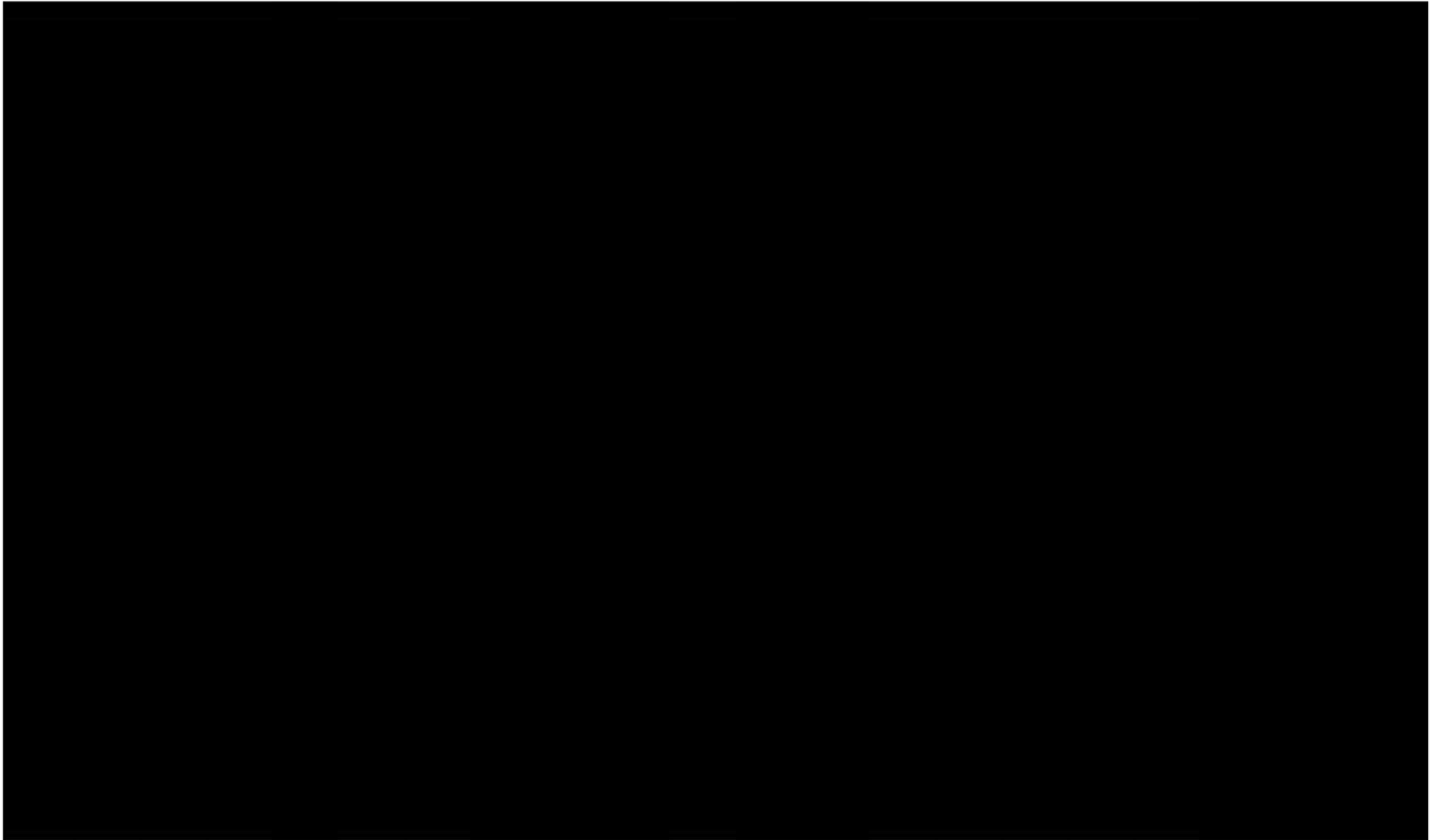
Lever overlap margin and interlock block torque



Occurrence mechanism S5A type Duplicate test result

(E)

Durability times that results in key removal with strong key turn



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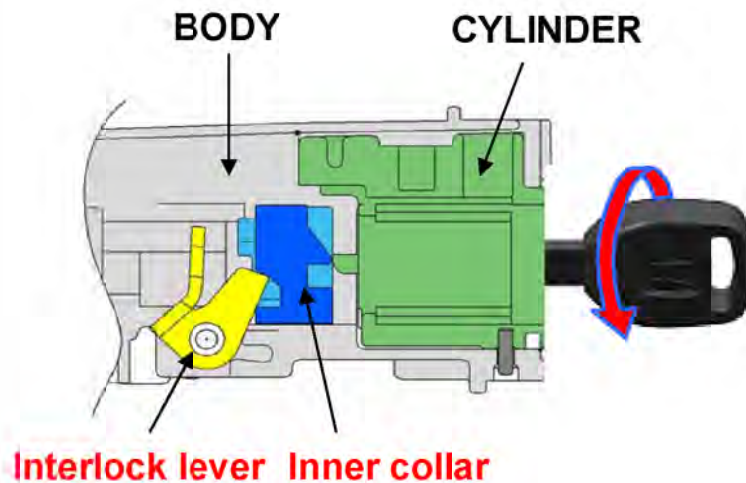
5-29-2009

ATTACHMENT Q13B

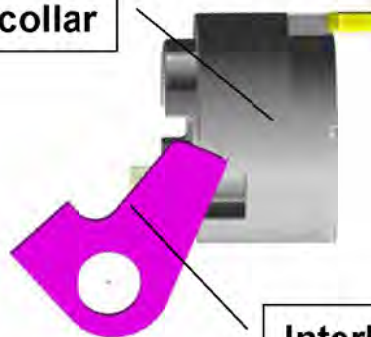
English REDACTED

Q13-b [Inner joint] explanation

S84 type

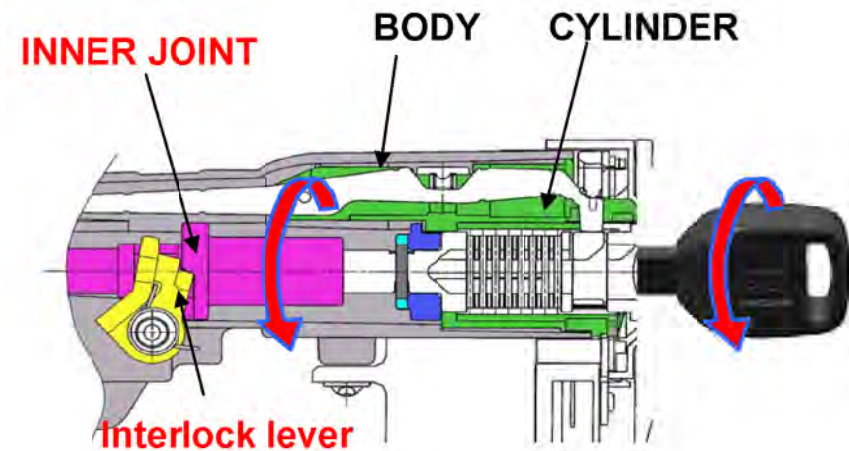


Inner collar

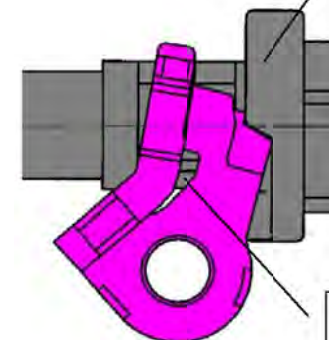


Interlock lever

S5A type



Inner joint



Interlock lever

Parts blocked by lever are different between S84 and S5A

S84: Inner collar

S5A: Inner joint

Q13-c Photos of QIS parts

QIS: SCWA-03061804
VIN: 5J6YH18513L005741

VIEW BEFORE COUNTERMEASURE



VIEW AFTER COUNTERMEASURE



Q13-h Test method

Measurement method for interlock block strength



Operate interlock lever.

Read the peak torque when the block breaks and the key slips out using a torque meter.

Definitions of [REDACTED]

[REDACTED] : Torque with which S5A type lever breaks.

[REDACTED] : Torque with which SEA type lever breaks.

(Measured applying torque by a jig, since the key torsion strength is [REDACTED])

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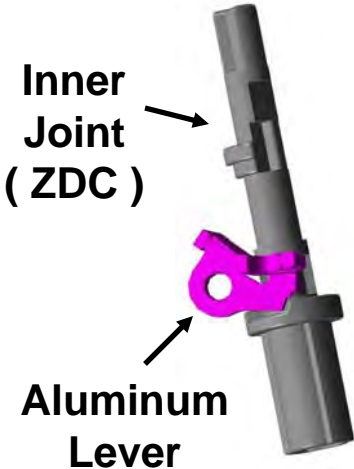
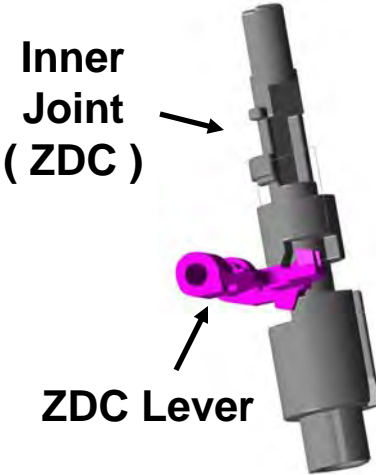
HONDA

5-29-2009

ATTACHMENT Q13C

English REDACTED

Change point explanation Factor Change type to SEA

	S5A	SEA	SEA Strong Point
	 <p>Inner Joint (ZDC)</p> <p>Aluminum Lever</p>	 <p>Inner Joint (ZDC)</p> <p>ZDC Lever</p>	
ACC Off Torque	1.0 Nm	5.0 Nm	Impossible to Create Half Lock Mode
Block Area Size	4.0 mm ²	6.6 mm ² (1.5 times)	Toughness Up for Mfg. Deviation
Block Torque	9.0 Nm	15.0 Nm	Toughness Up for Mfg. Deviation

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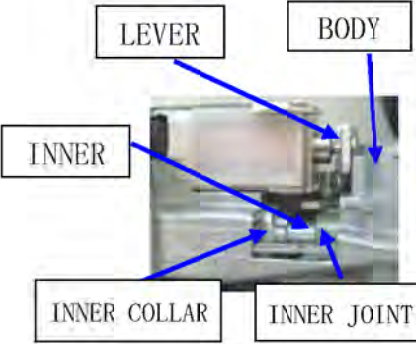


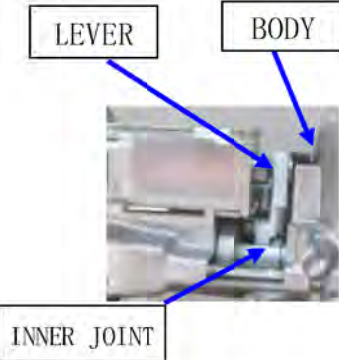


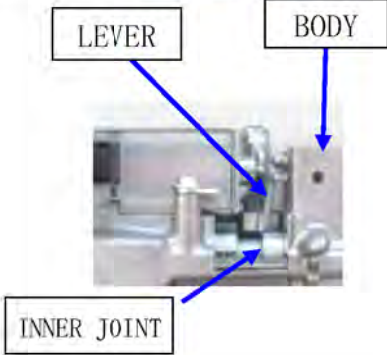
HONDA

5-29-2009

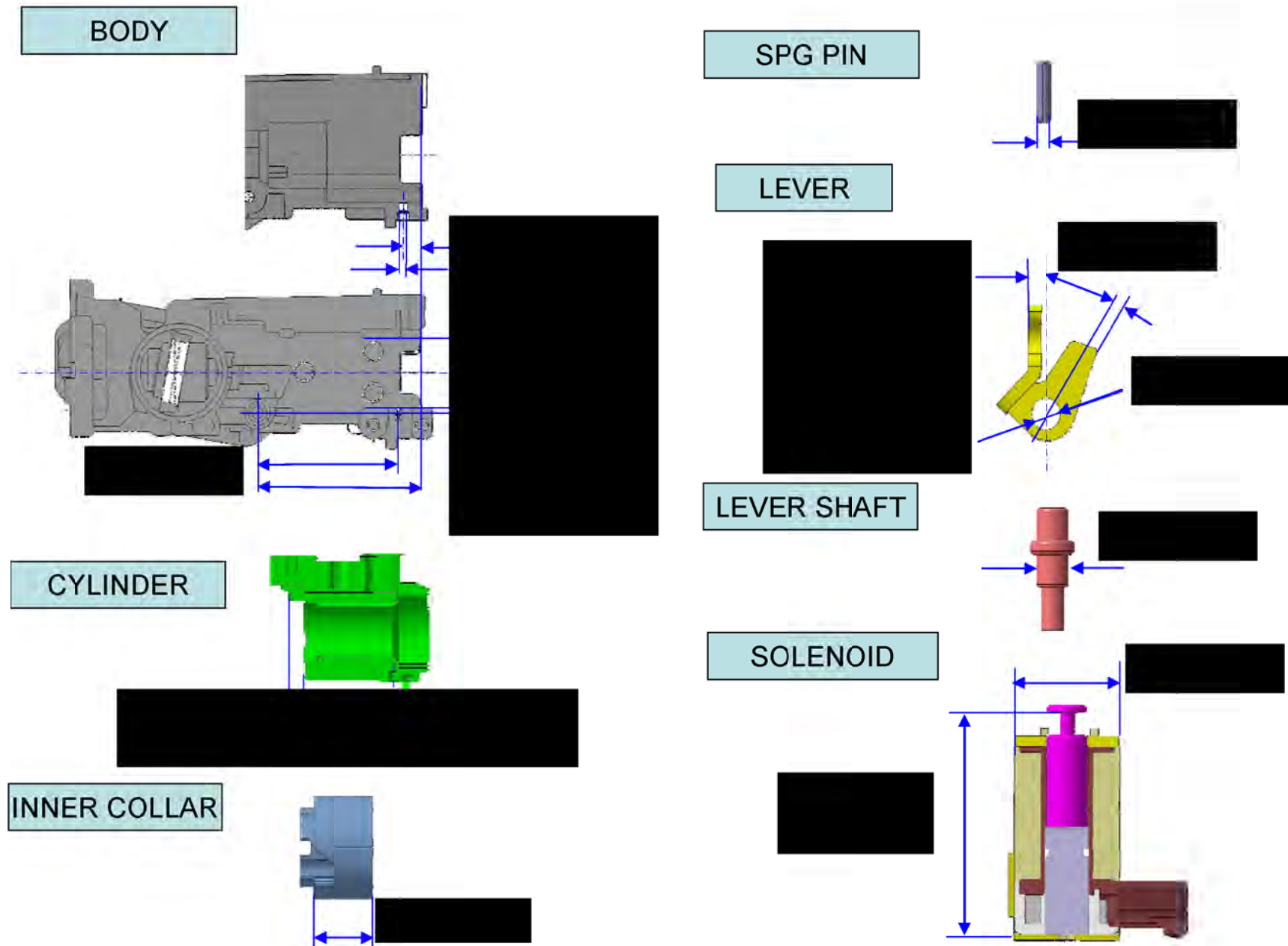
ATTACHMENT Q15A

English REDACTED

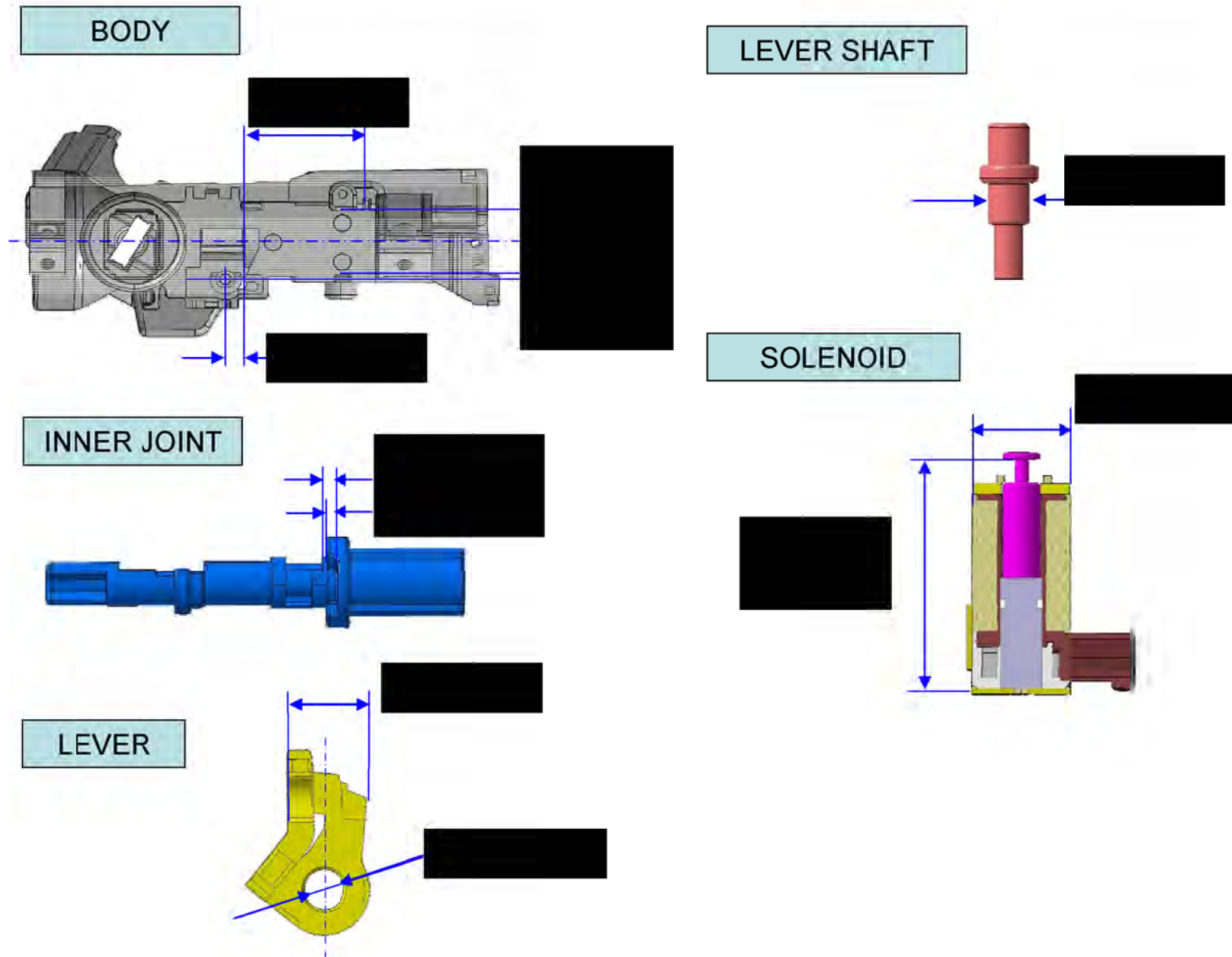
Q15-a MATERIAL

PARTS	S84 (02M Accord , 03M TL)	S5A (03M Accord CIVIC ELEMENT)	SEA (04M Accord , 04M TL)
	  	  	  
BODY			
CYLINDER			
INNER			
COLLAR, INNER			
JOINT, INNER			
LEVER			
SHAFT, LEVER			

Q15-b Dimension And Tolerance(S84)

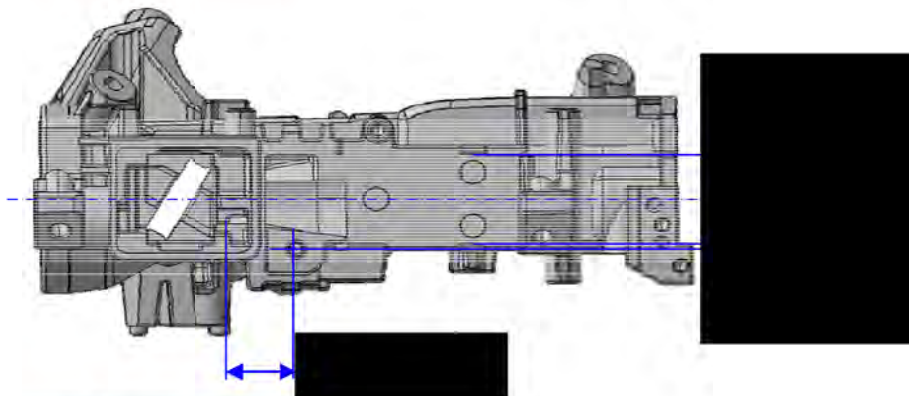


Q15-b Dimension And Tolerance(S5A)

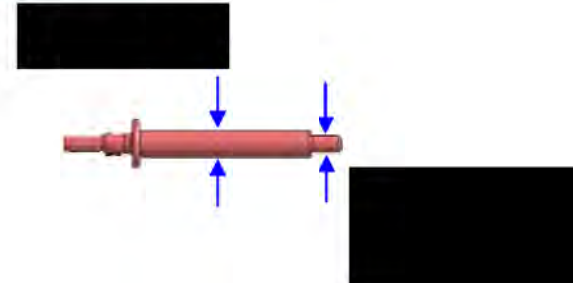


Q15-b Dimension And Tolerance (SEA)

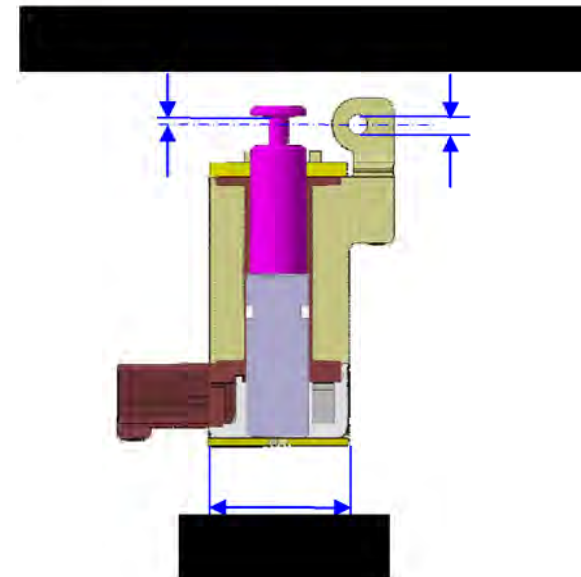
BODY



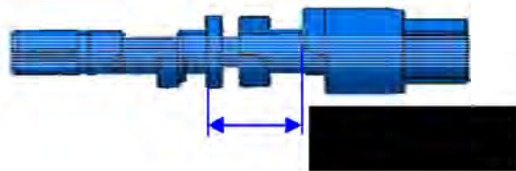
LEVER SHAFT



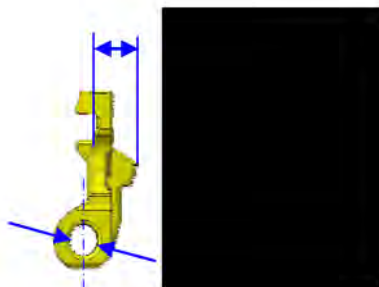
SOLENOID









INNER JOINT









LEVER



Q15-c Key strength and durability

Model	Accord		Civic		ELEMENT	TL
Model	02M	03M	02M	03M , 04M	03M , 04M	03M , 04M
Photo						
Key blade type	Tumbler	WAVE	Tumbler	WAVE	WAVE	Tumbler
Interlock type	S84	S5A	S5A	03M : S5A 04M : SEA	S5A	03M : S84 04M : SEA
Torsion strength						
durability						

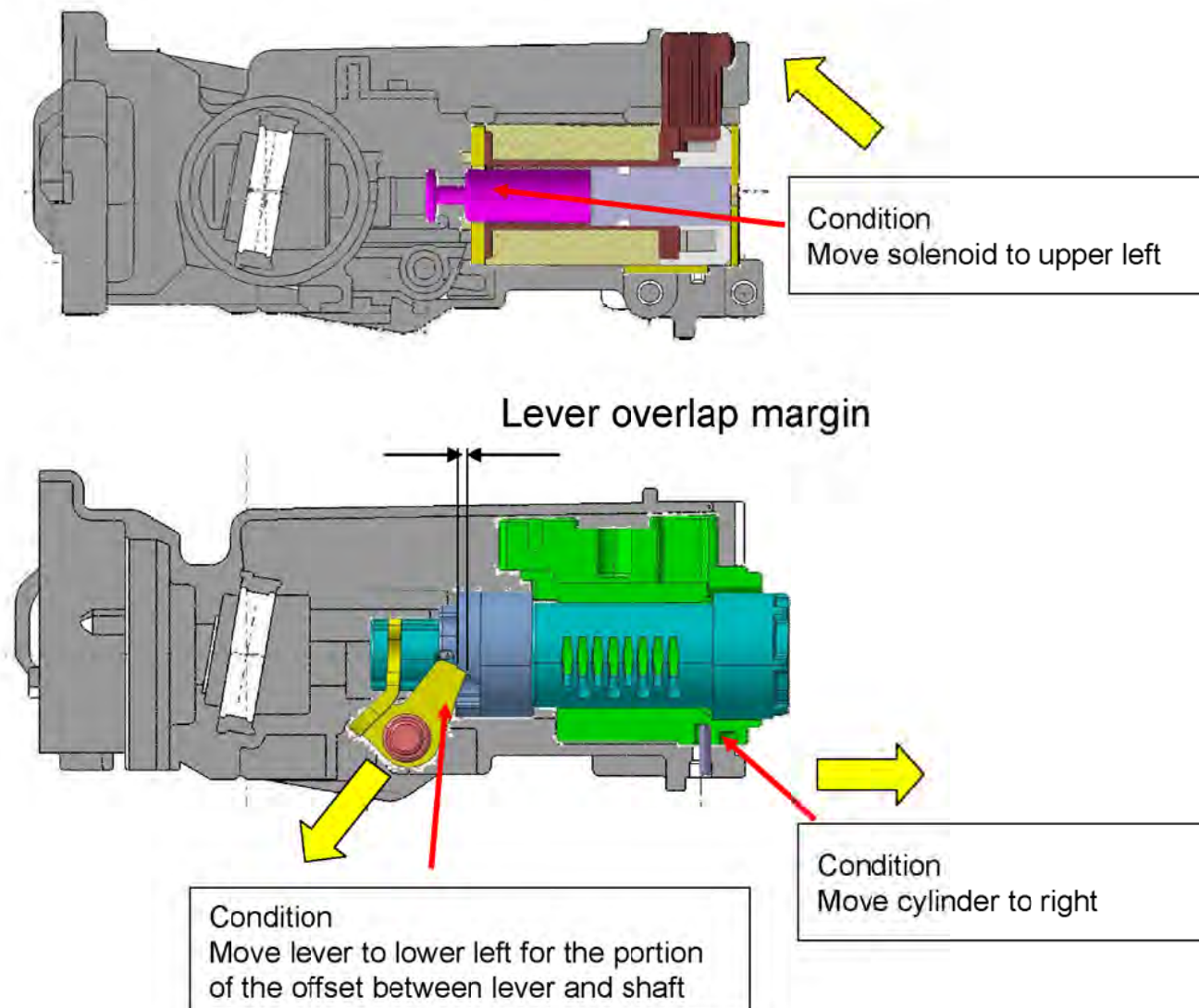
Q15-d Minimum lever overlap margin (Drawing set value)

	S84 (02 Accord)	S5A (03M Accord CIVIC ELEMENT)	SEA (04M Accord)
Minimum lever overlap margin	 	 	 

Q15-e Minimum lever overlap margin (Drawing set value)(S84)

- Calculation method for minimum lever overlap margin

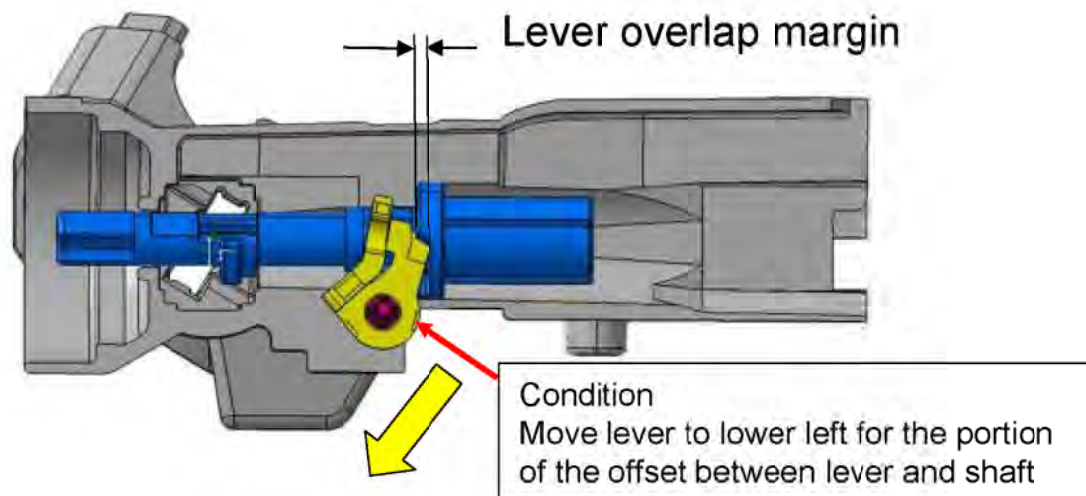
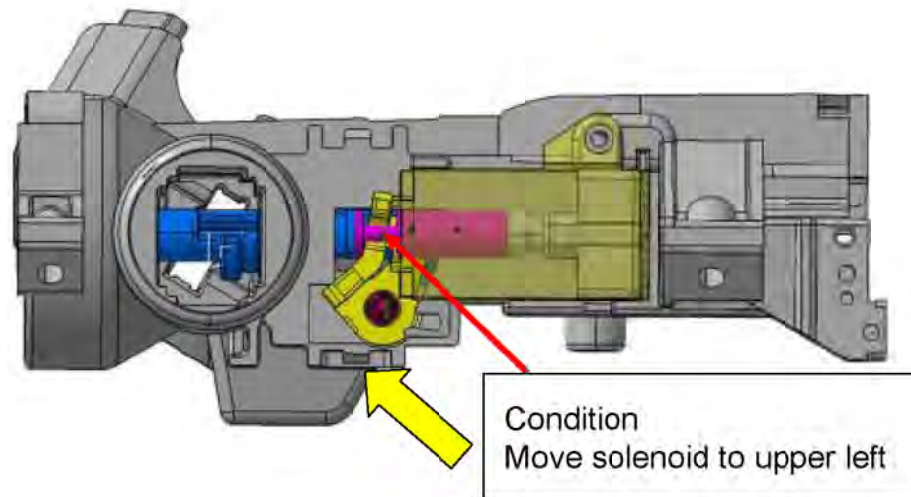
The dimension of each part was taken into consideration to make the overlap margin between the lever and the inner collar minimum, and the overlap margin was calculated using CATIA.



Q15-e Minimum lever overlap margin (Drawing set value)(S5A)

- Calculation method for minimum lever overlap margin

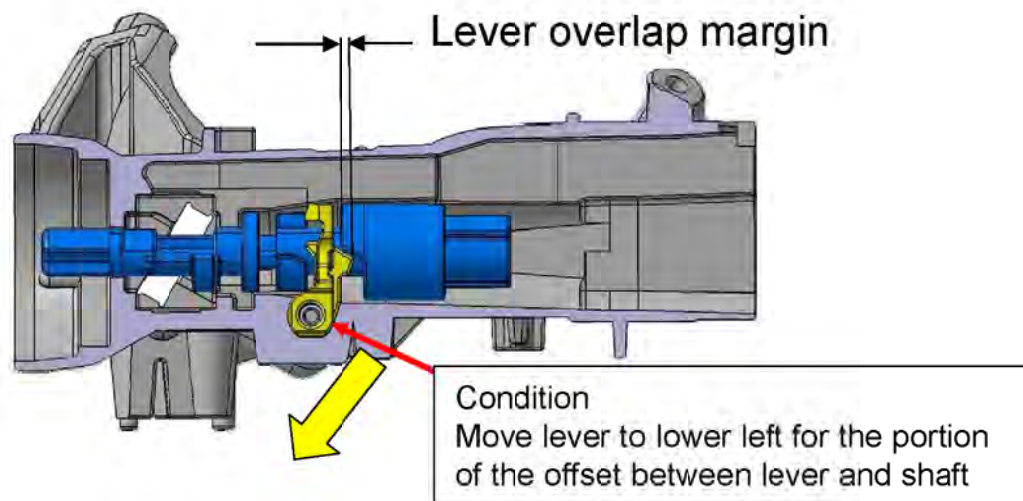
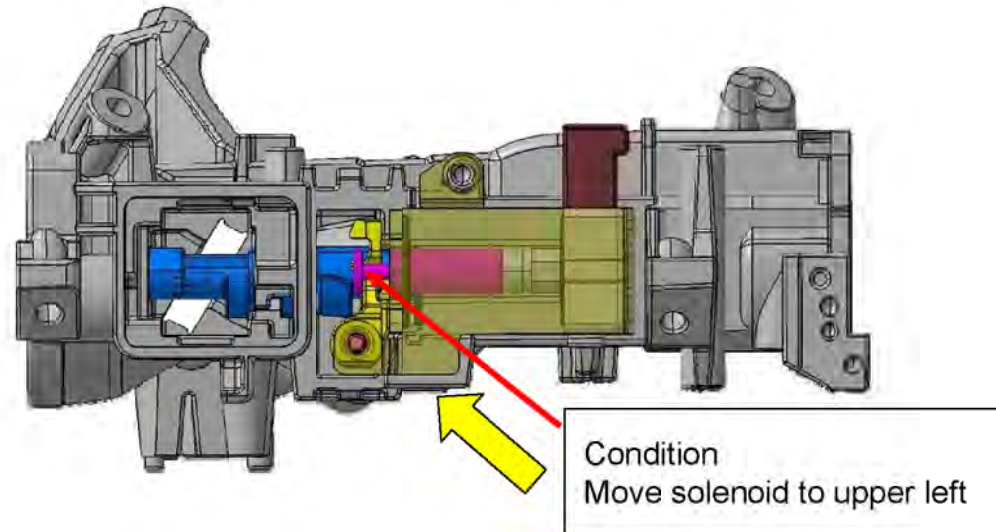
The dimension of each part was taken into consideration to make the overlap margin between the lever and the inner collar minimum, and the overlap margin was calculated using CATIA.



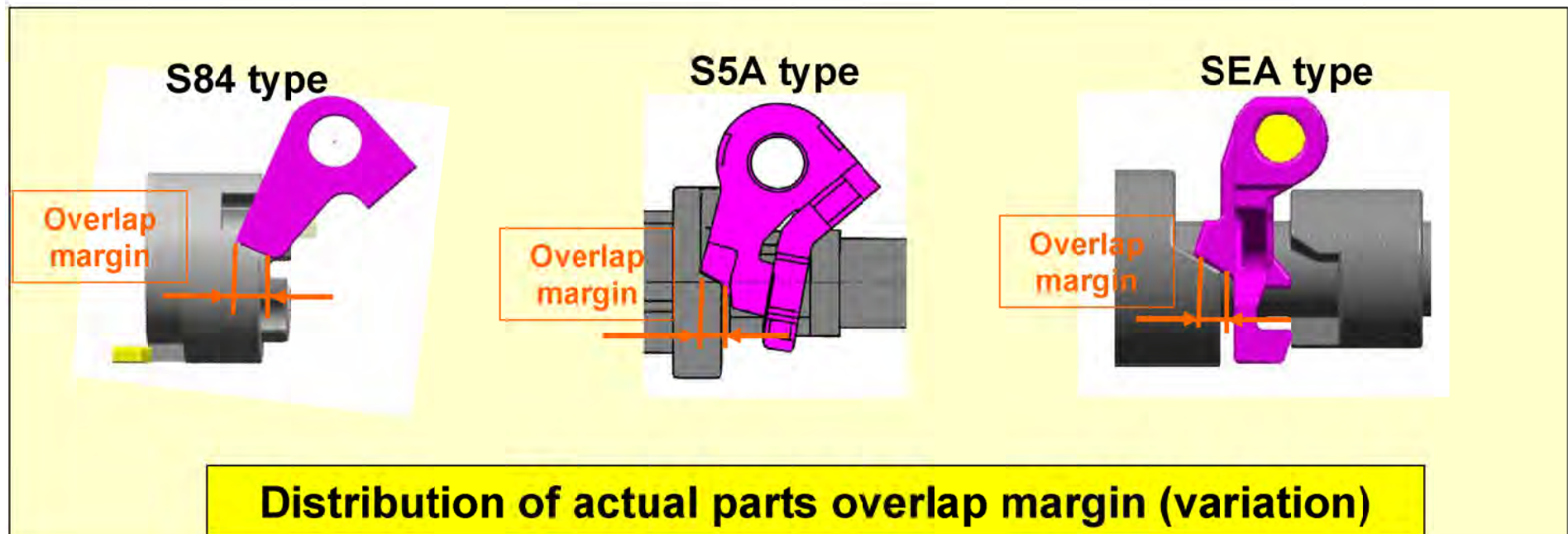
Q15-e Minimum lever overlap margin (Drawing set value) (SEA)

- Calculation method for minimum lever overlap margin

The dimension of each part was taken into consideration to make the overlap margin between the lever and the inner collar minimum, and the overlap margin was calculated using CATIA.



Q15-f Distribution of initial lever overlap margin



EA09-001

HONDA


5-29-2009

ATTACHMENT Q15B

English REDACTED

S84 type Occurrence mechanism

Occurrence mechanism S84 type ('02 ACCORD, '03 TL)

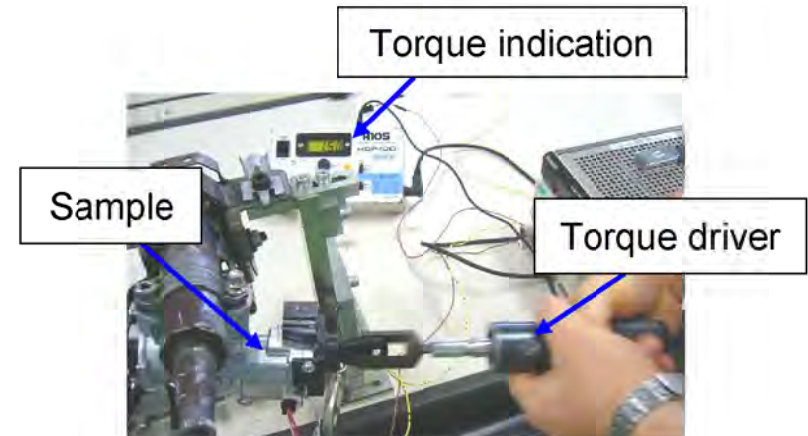


Unable to interlock and
key slips out

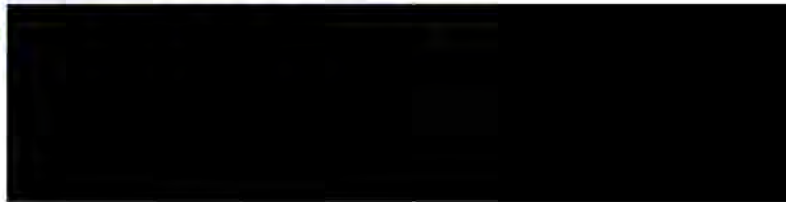
Occurrence mechanism S84 type Monitor & duplicate test result

A

- Sample condition
Identical feature with M/P parts
(SPG pin [REDACTED])
- Test conditions
 1. Connect the power to the sample as shown in the photo and let the interlock engage.



Occurrence mechanism S84 type Monitor & duplicate test result

B

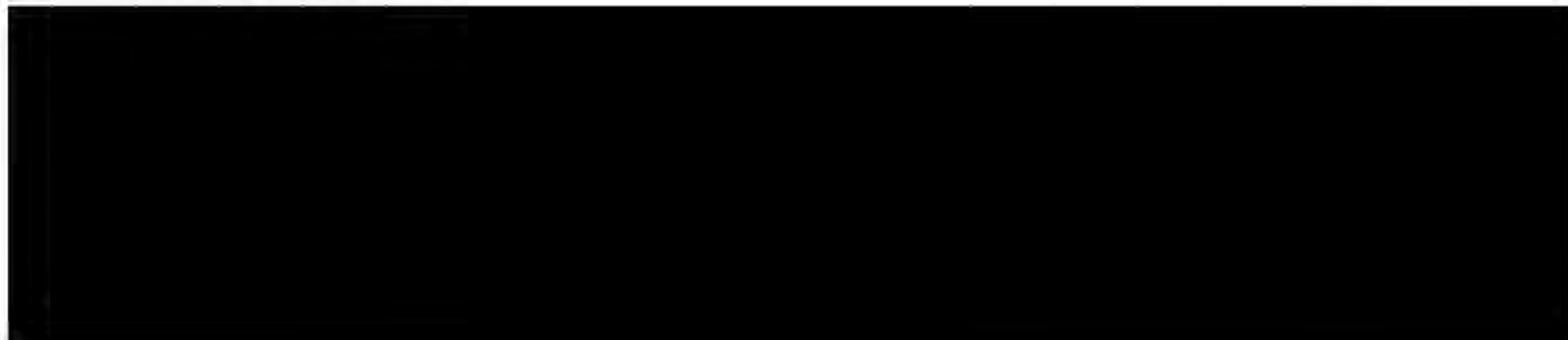
- Sample condition
[redacted] as shown below.
- Test condition
 1. Set the sample to the key operation durability device as shown on the photo and test.



Distribution of pulling load at key operation (Based on 05/2 monitor)



Number of key operation times to SPG pin lift

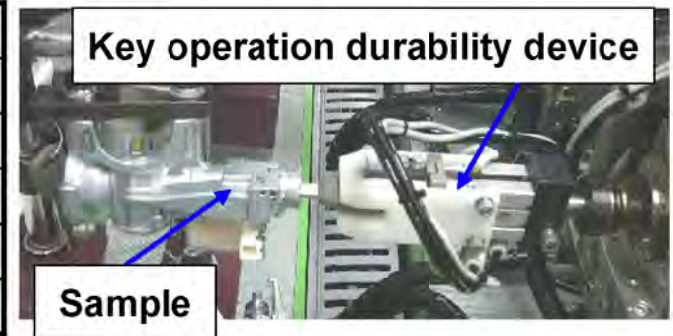


Occurrence mechanism S84 type Monitor & duplicate test result

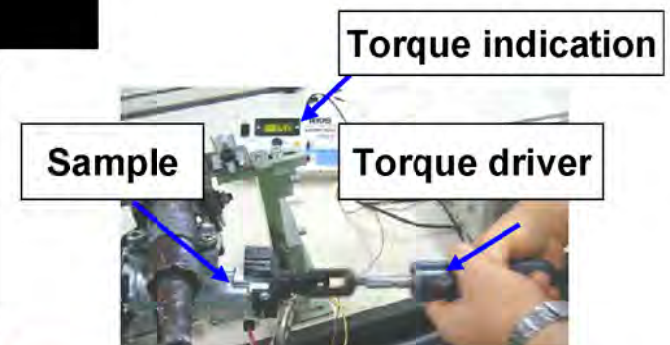
③



	Sample 1	Sample 2	Sample 3
	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○



Interlock block torque	
Times key removed	



1. Key removal does not occur with average operation torque [redacted] of interlock operation.

2. [redacted]