

CONFIDENTIAL INFORMATION REMOVED

Attachment-Response 6

Summary of Actions

DP06-003

Toyota

12/20/2006

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Toyota Motor Corporation
VEHICLE DEPT. No.1
CUSTOMER QUALITY ENGINEERING DIV.

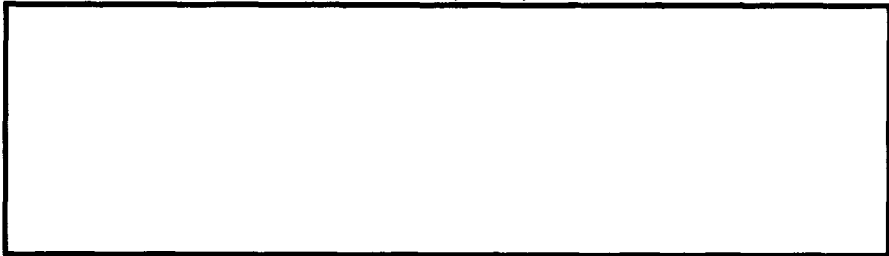
Investigation Report

【Completion Report】

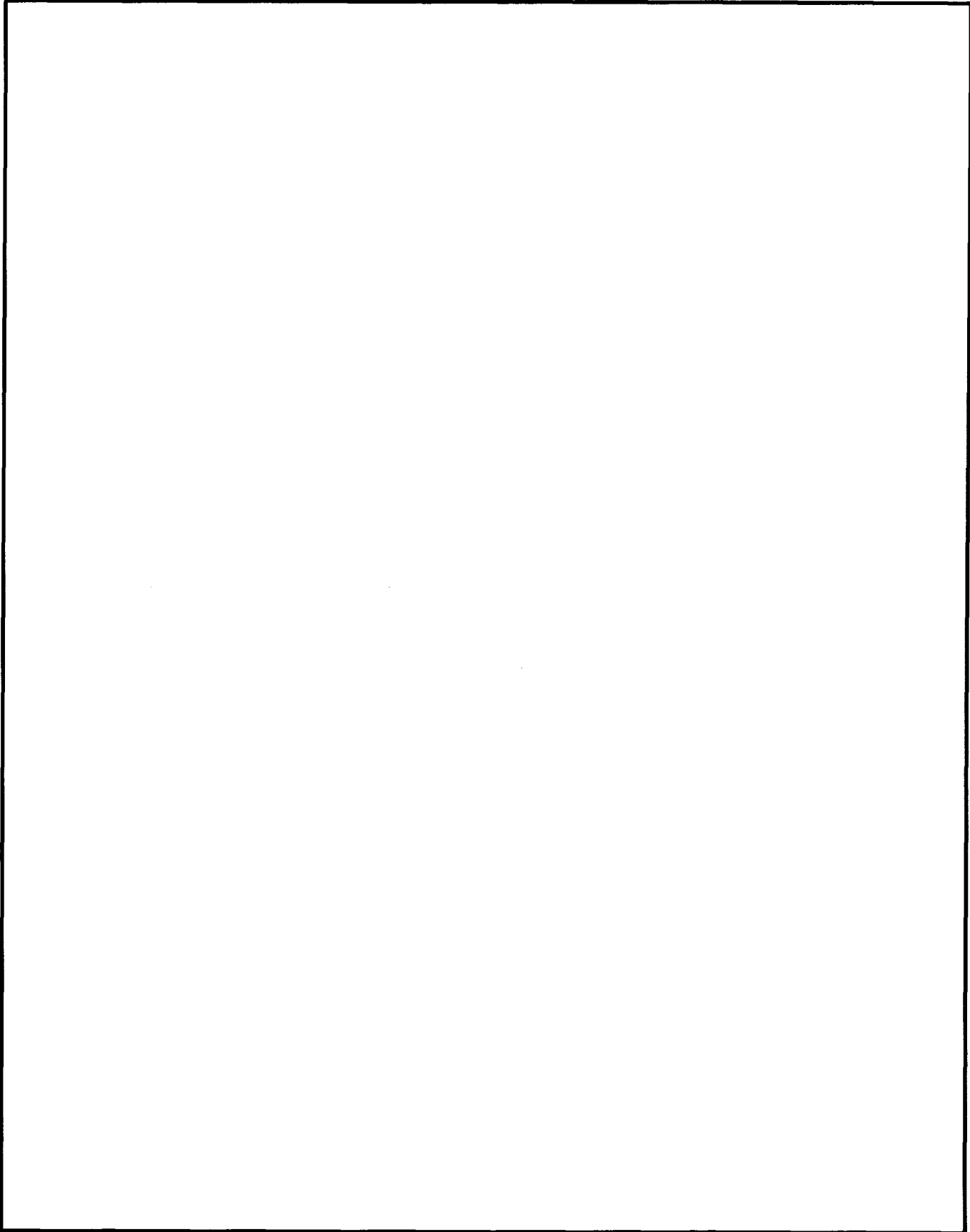
Title : Investigation Result of Throttle Body returned for Free Repair
Model : 2AZ - FE
Product Name : Electronic Throttle Body
V VIN :

We would like to report the investigation results of the product above performed at your request.

Dec. 5, 2006
Aisan Industry Co., Ltd.
Quality Assurance Dept.
Quality Assurance Sect.



Investigation Result of Throttle Body returned for Free Repair



4. Summary

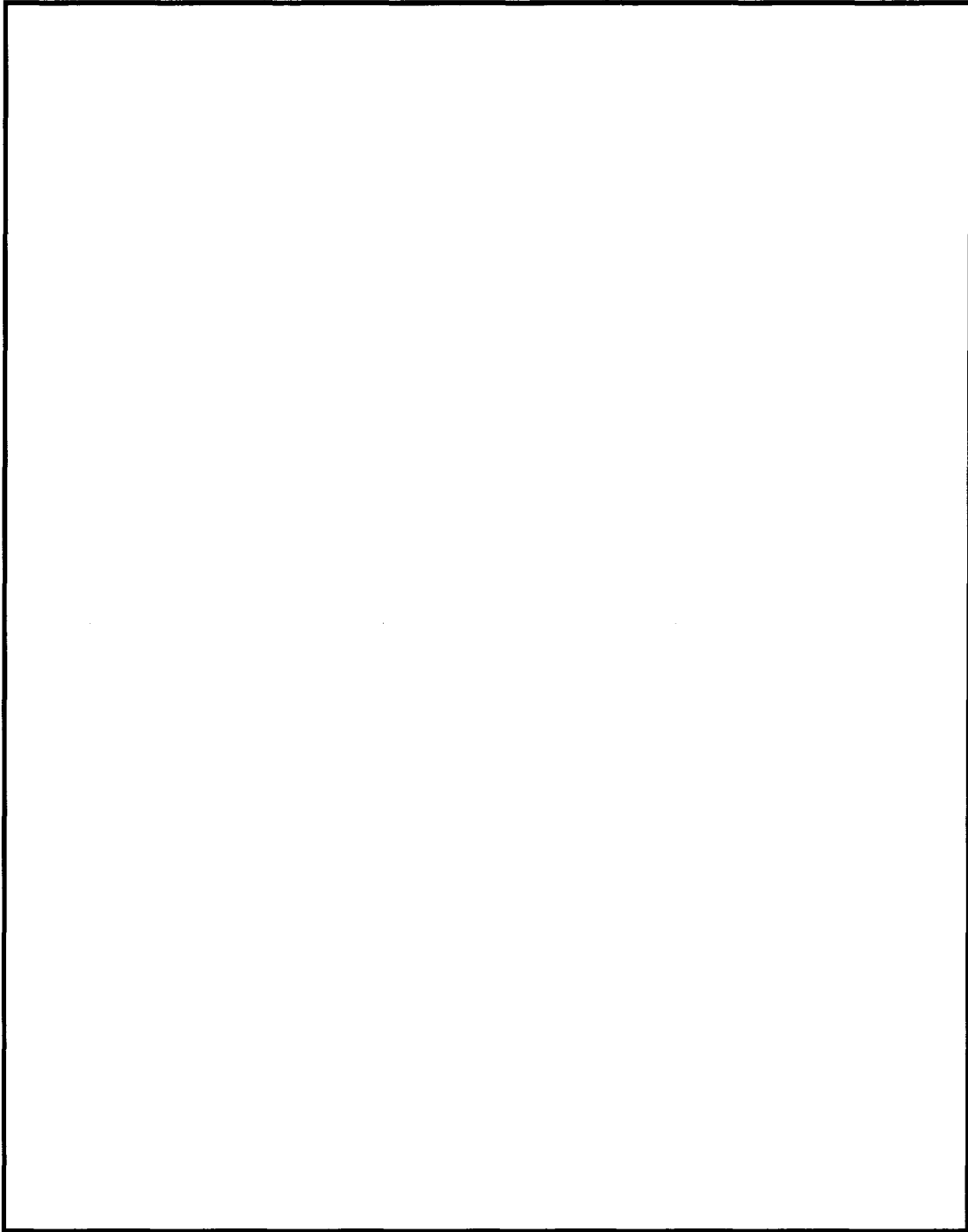
We did not find any problem that could be connected with the reported problem in the results of the performance investigation of the throttle alone and the motor alone.

We judge there is no problem with the returned part.

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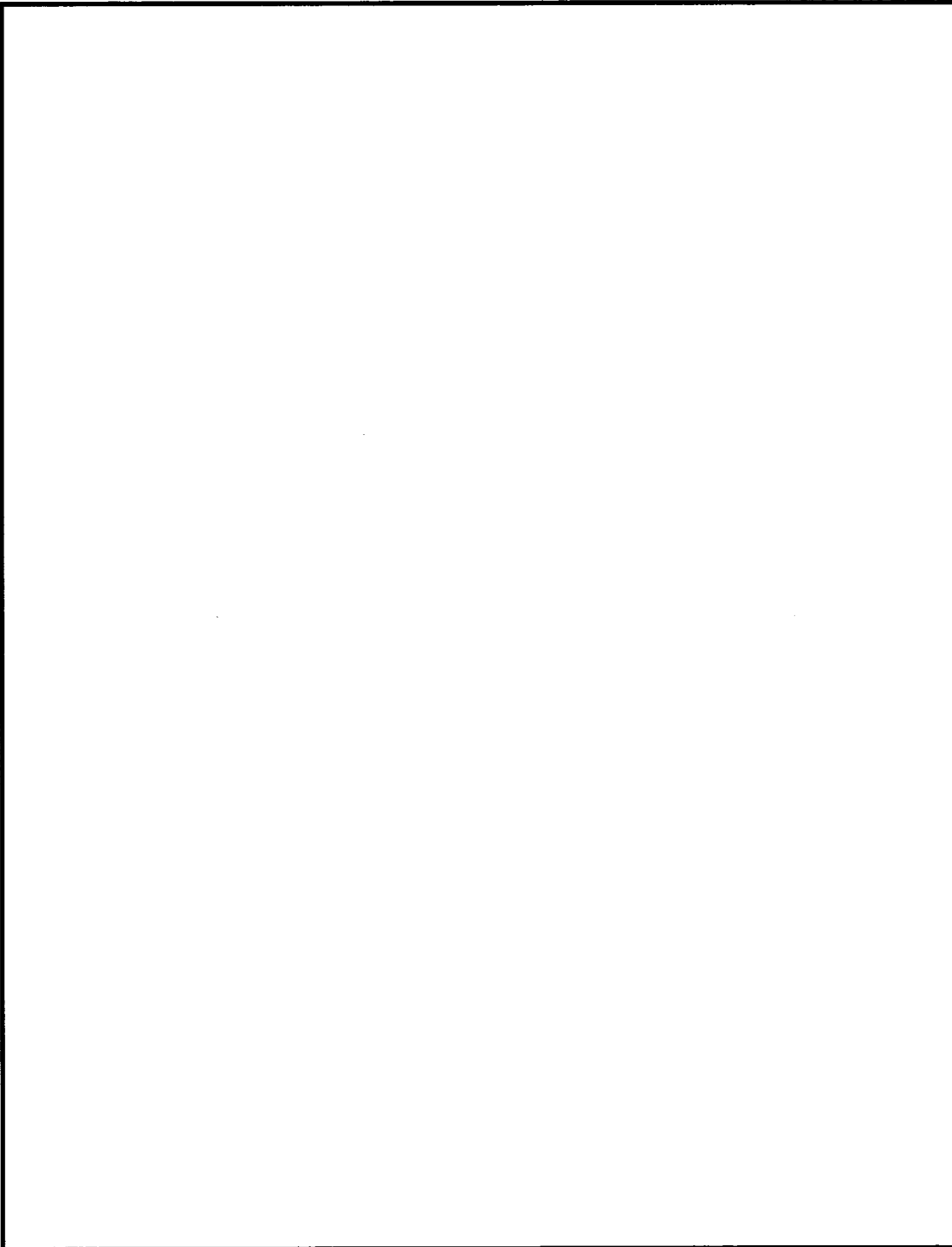
Appearance Investigation-1



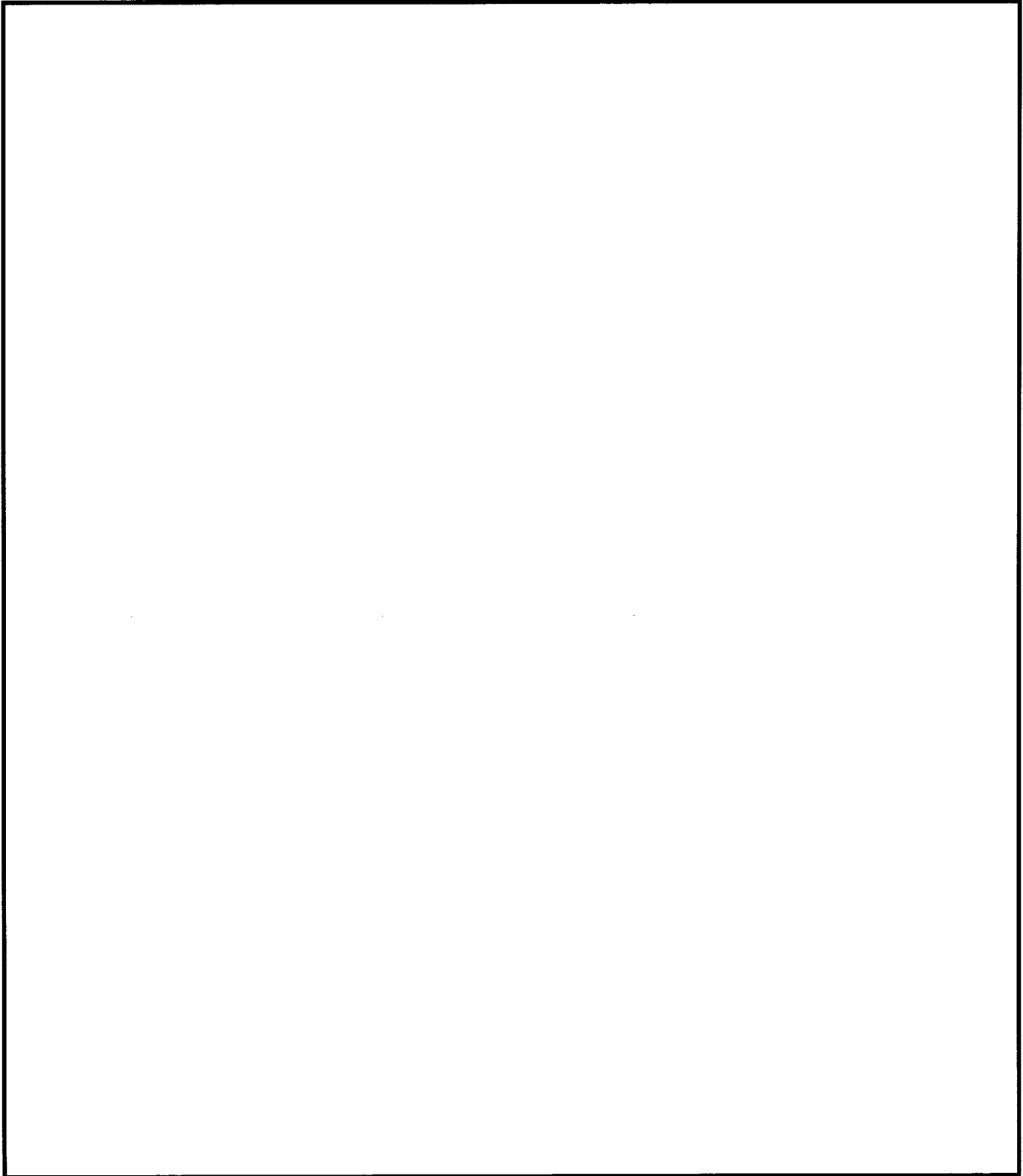
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Appearance Investigation-2



X-ray Result



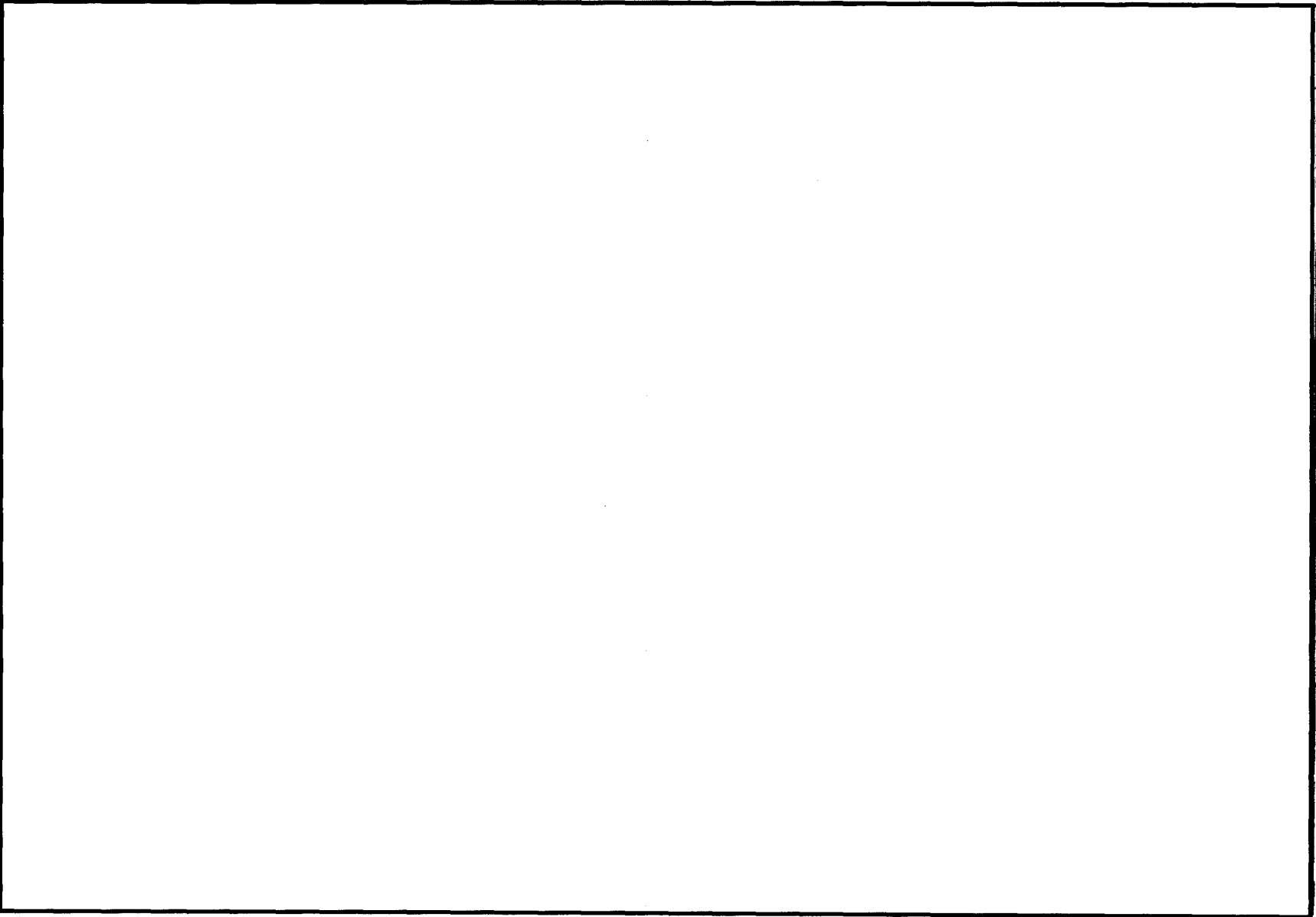
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報告書 編797

紙巻減価償却システム

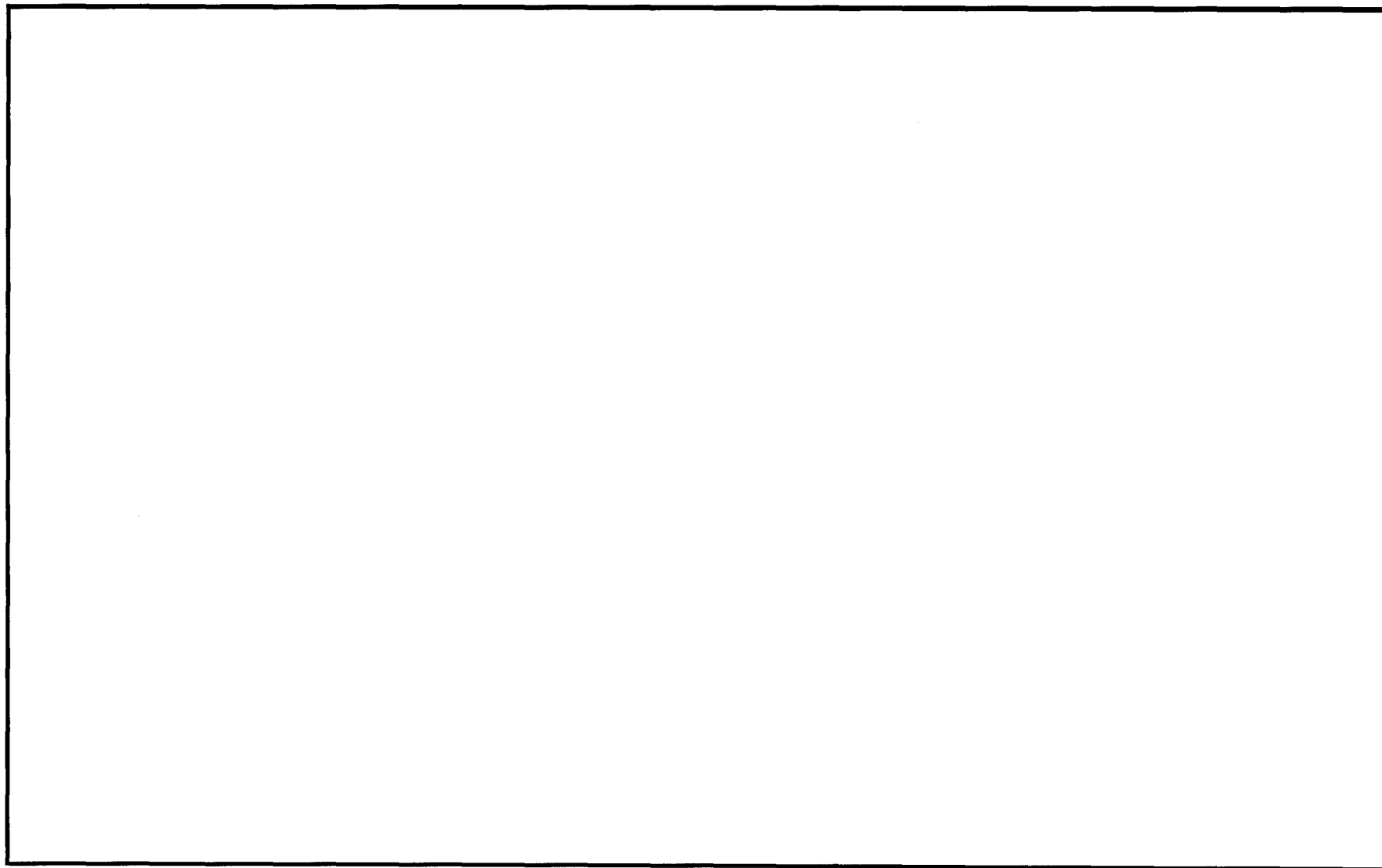
三菱工業株式会社

00-005 (A.S.) 10.1. 50. 90 0-013



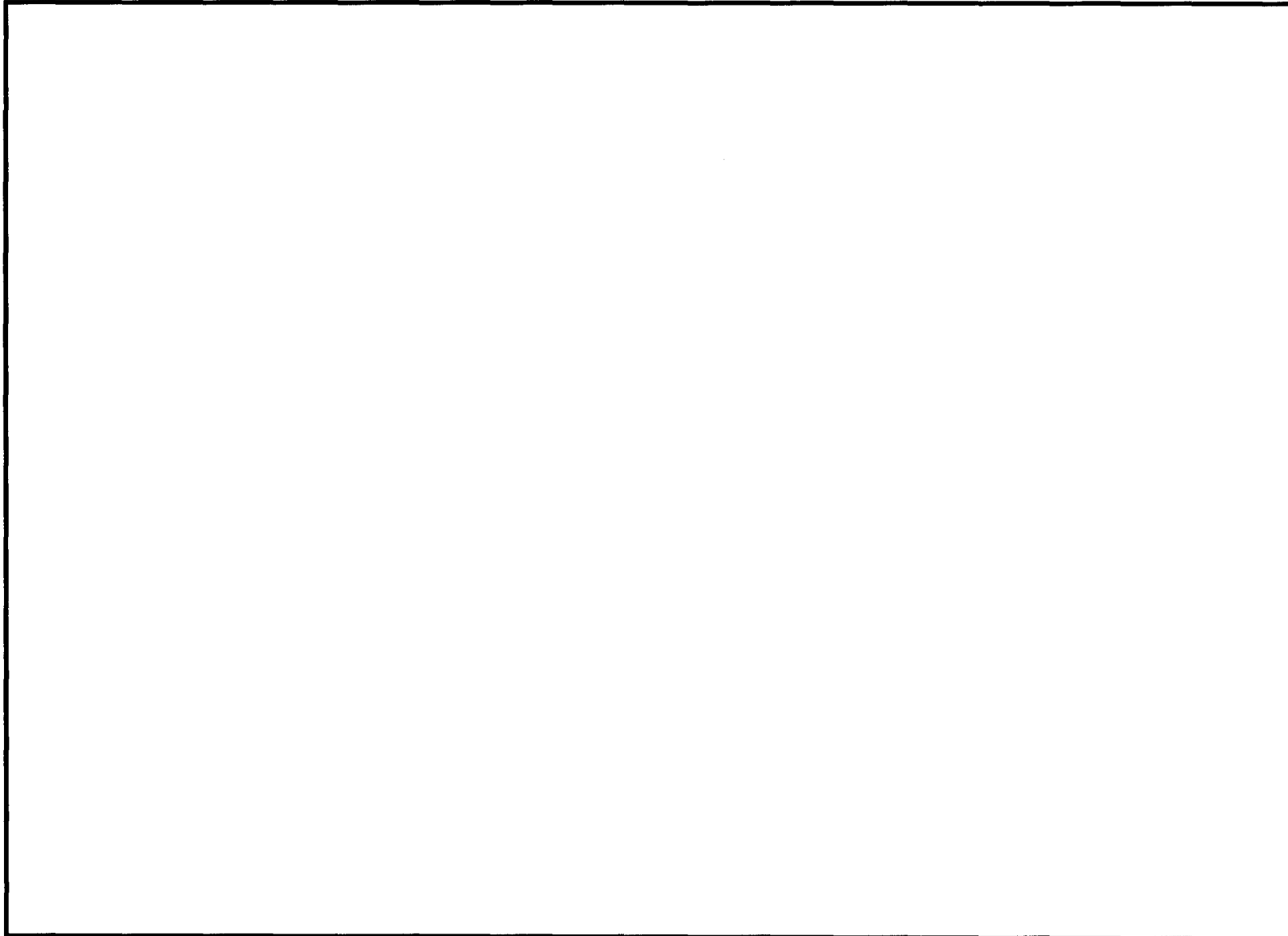
8/14

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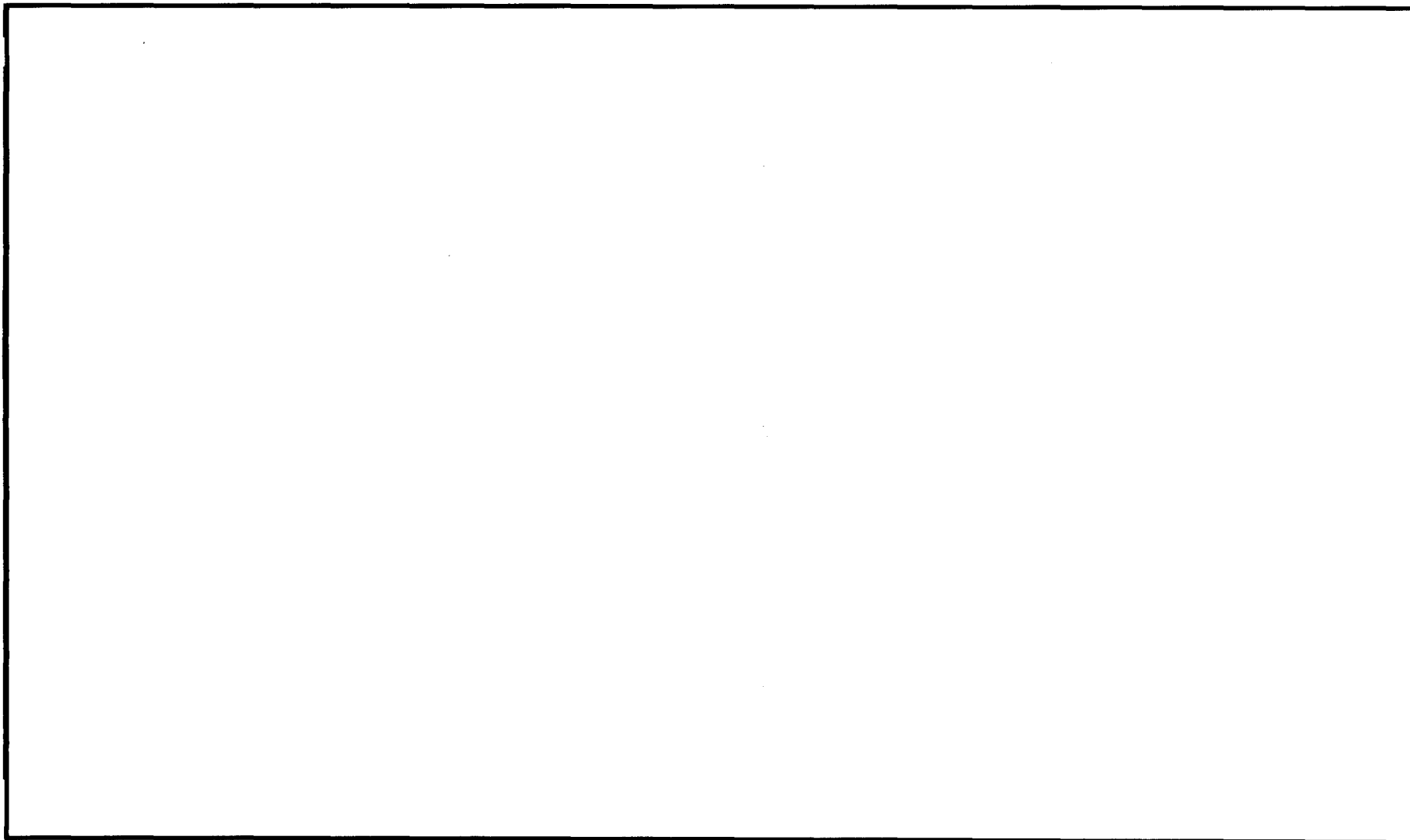
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Throttle Low Speed Operation Investigation Result



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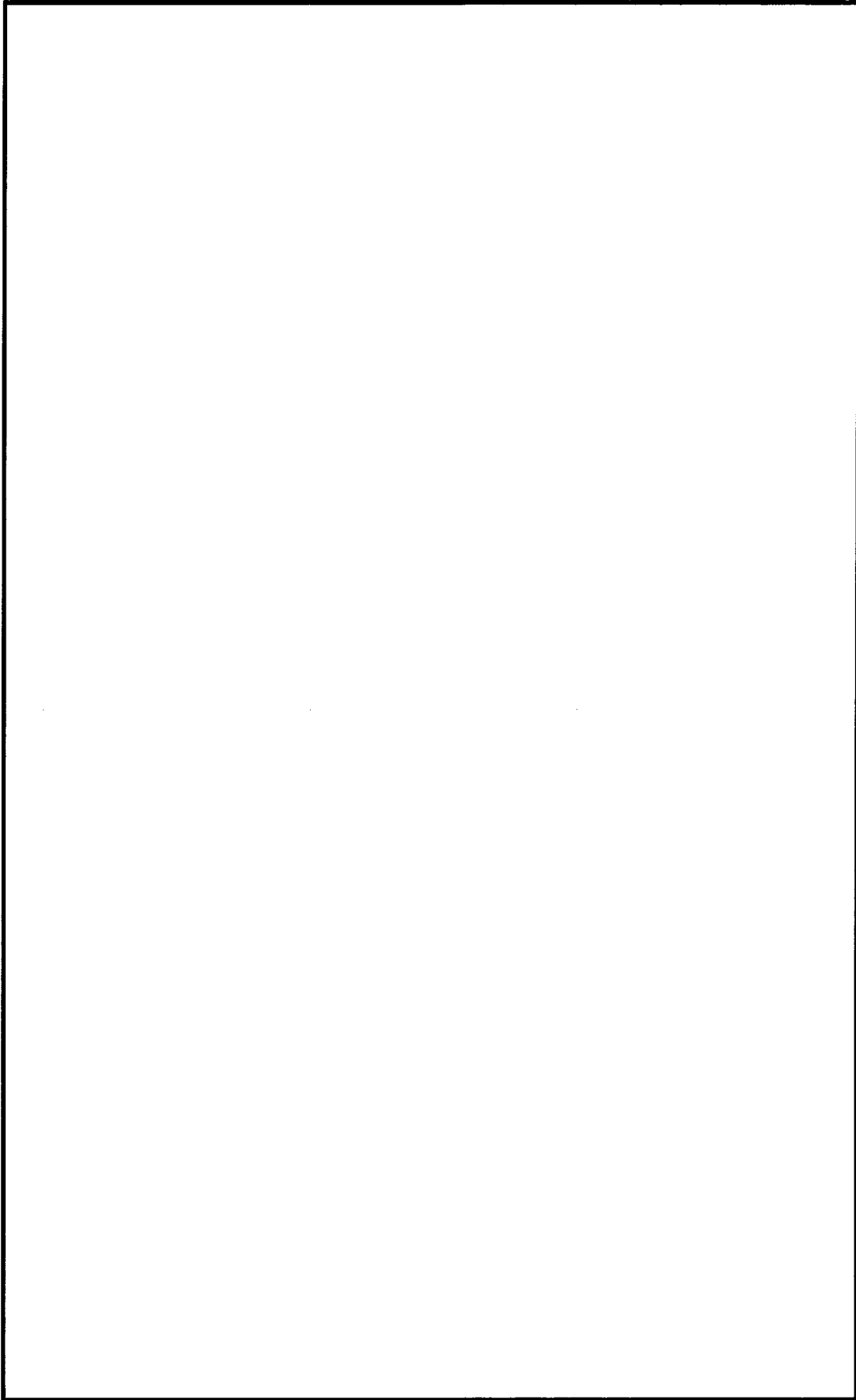
Throttle Position Sensor Characteristic Investigation Result



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10/14

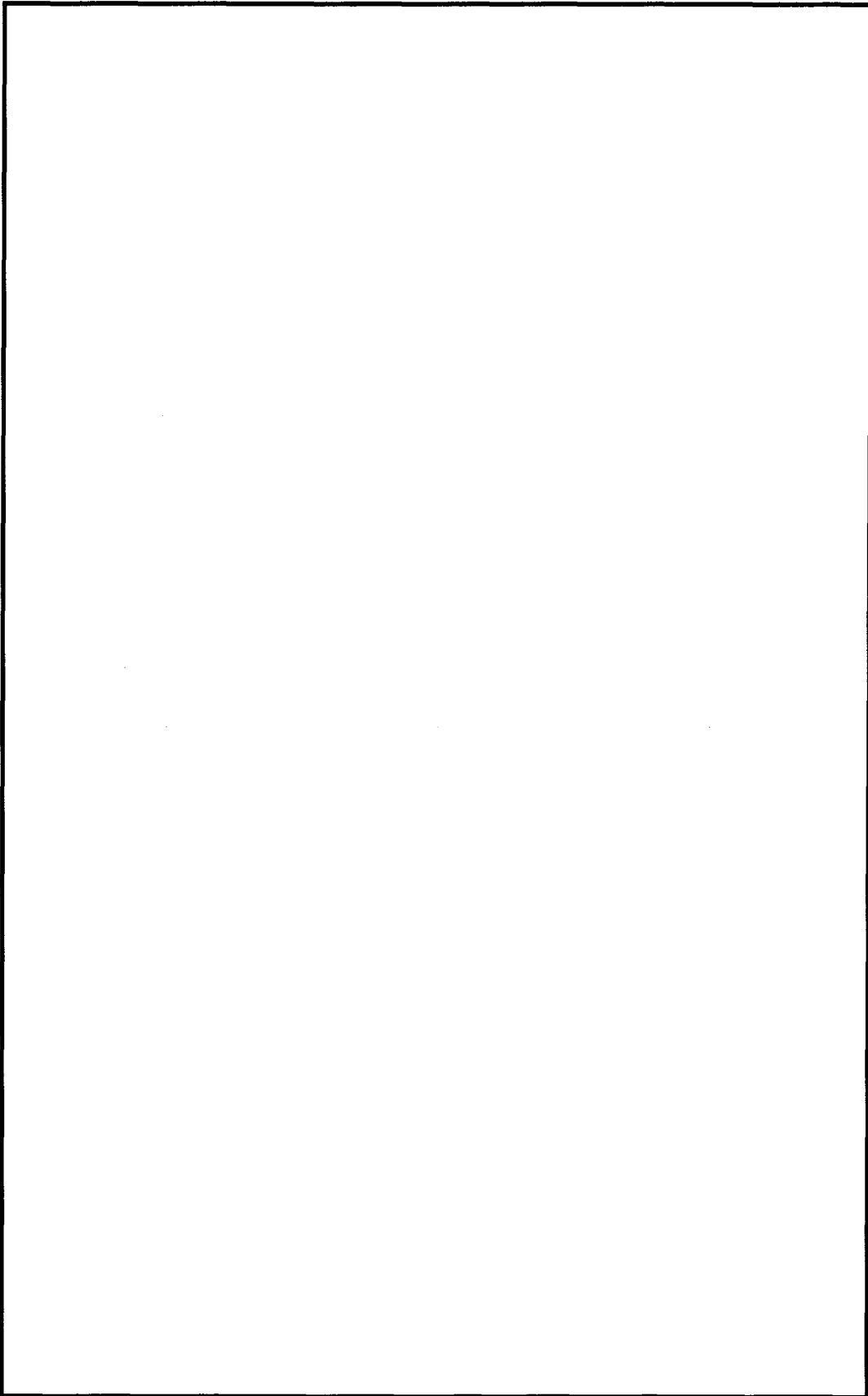
Disassembly-1
(Manufacturing lot: 5L15 00529)



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11/14

Disassembly-2
(Manufacturing lot: 5L15 00529)



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05/Dec/2006

QUALITY ASSURANCE

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05/Dec/2006

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Approve

Check

Prepare

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Summary of Actions

| a. Action title | b. Start date | c. End date | d. Brief summary of the objective | e. Engineering group | f. Summary of findings | Title of Attachment | | | | | | | | | | | | | | | | | | |
|-----------------|---------------|-------------|-----------------------------------|----------------------|------------------------|-------------------------|--|--|--|--|--|-------------------------|--|--|--|--|--|-------------------------|--|--|--|--|--|-------------------------|
| | | | | | | Attachment-Response 6-1 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Attachment-Response 6-2 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | Attachment-Response 6-3 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Attachment-Response 6-4 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

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Attachment 6-1

Investigation Reports of Petitioner's Throttle Actuator

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Attachment 6-2

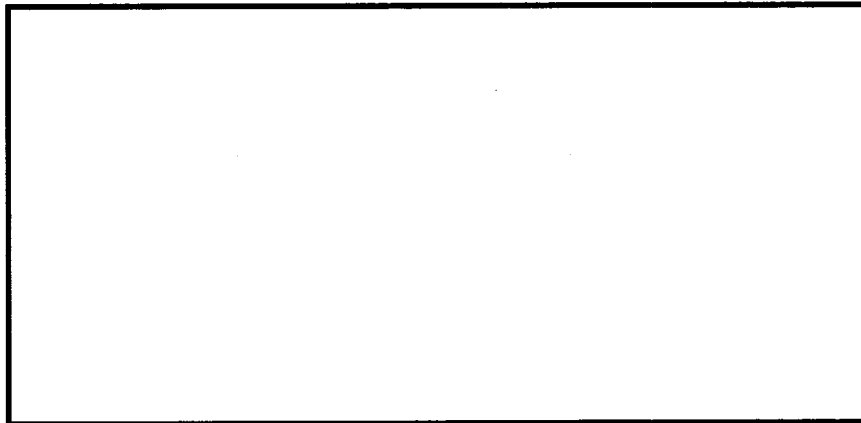
Investigation Reports of Returned Parts

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2004/11/10

AISAN INDUSTRY Co., Ltd.
Product Development Dept. I
Plant Administration Dept.
Quality Assurance Dept.

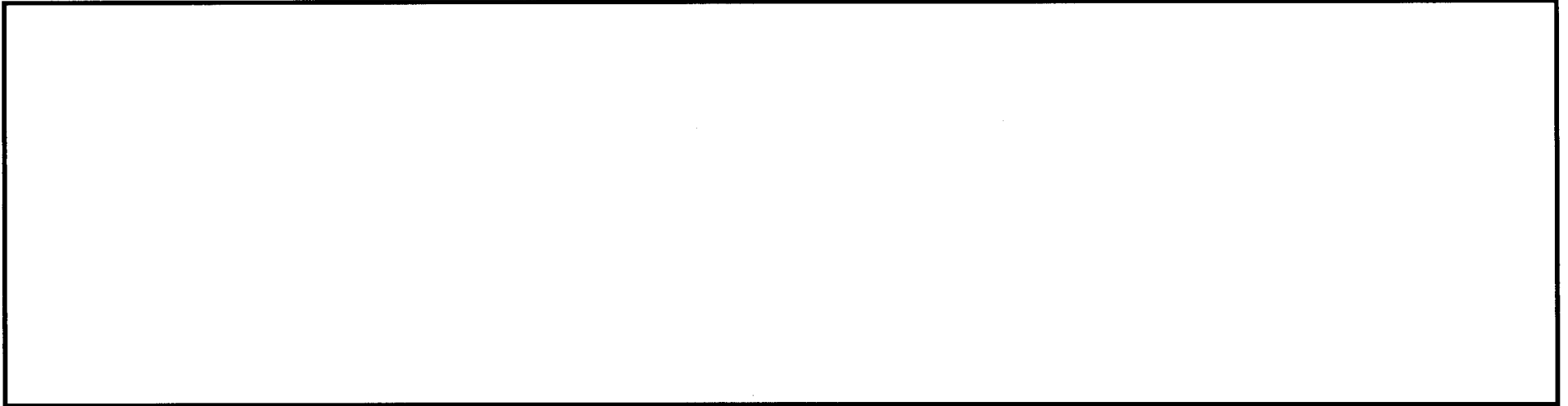
2004MY Camry 2AZ Electric Throttle body Report



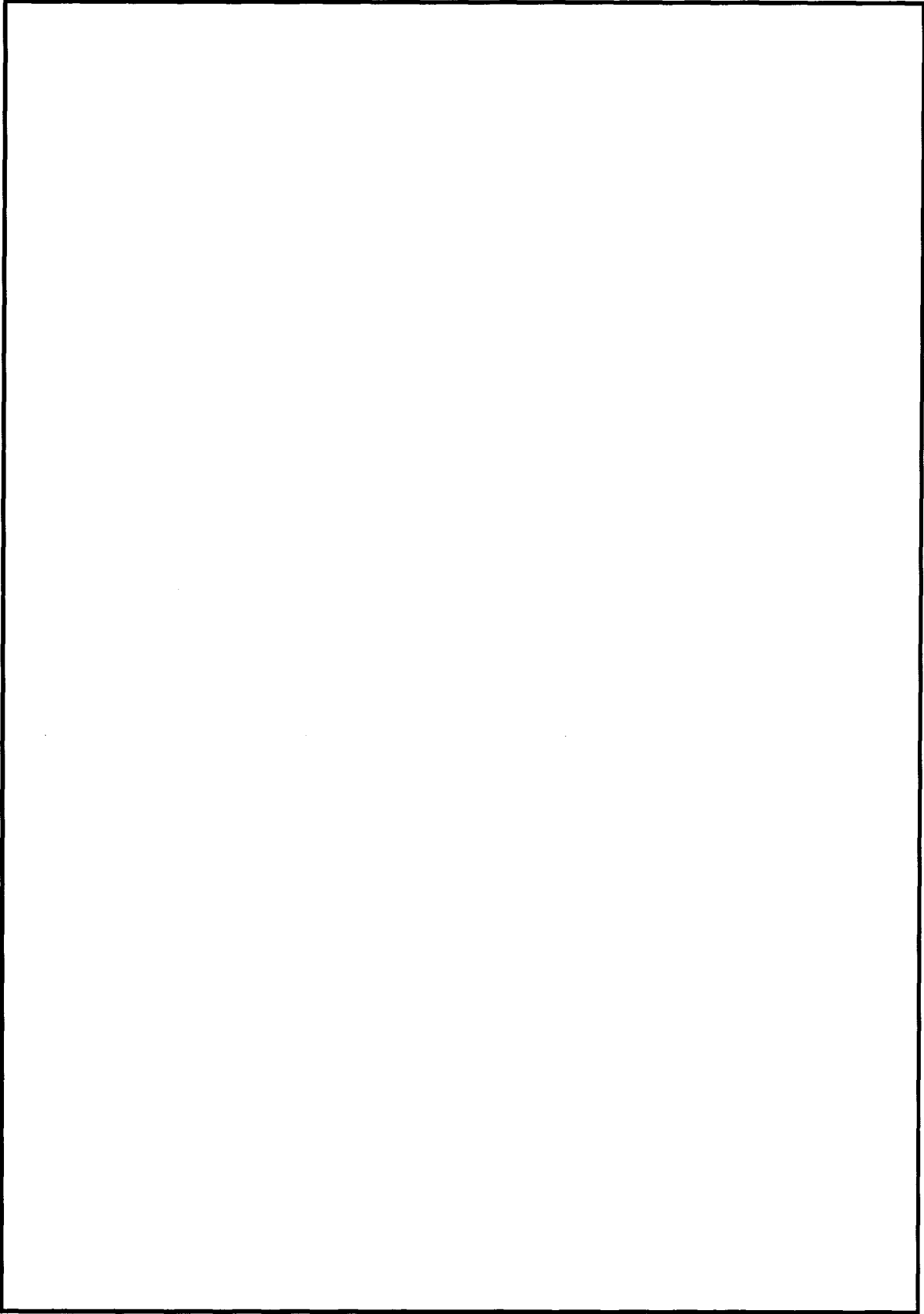
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1. Recovered parts investigation results

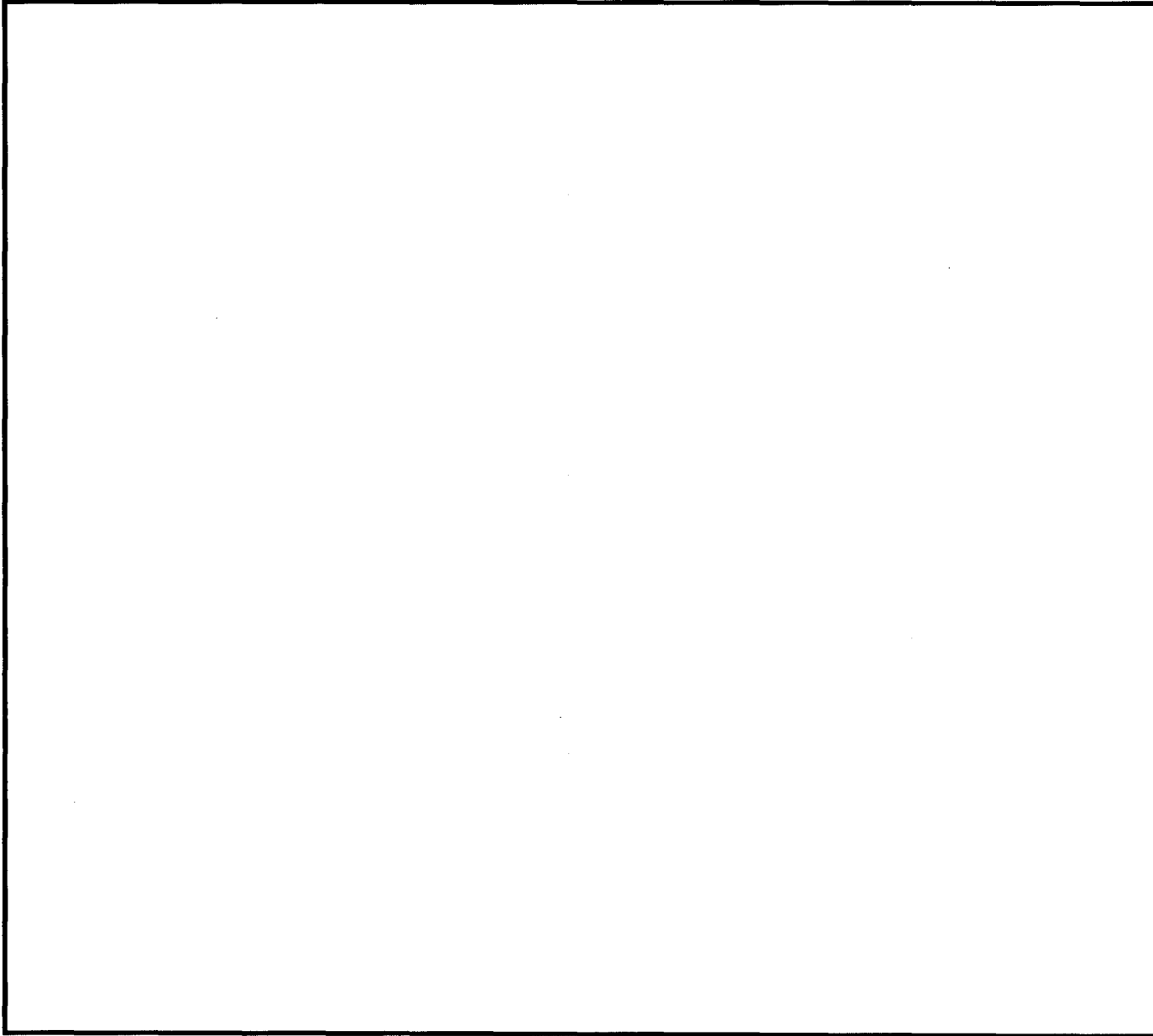
1-(1) 04MY_Camry Throttle body recovered parts list and investigation results



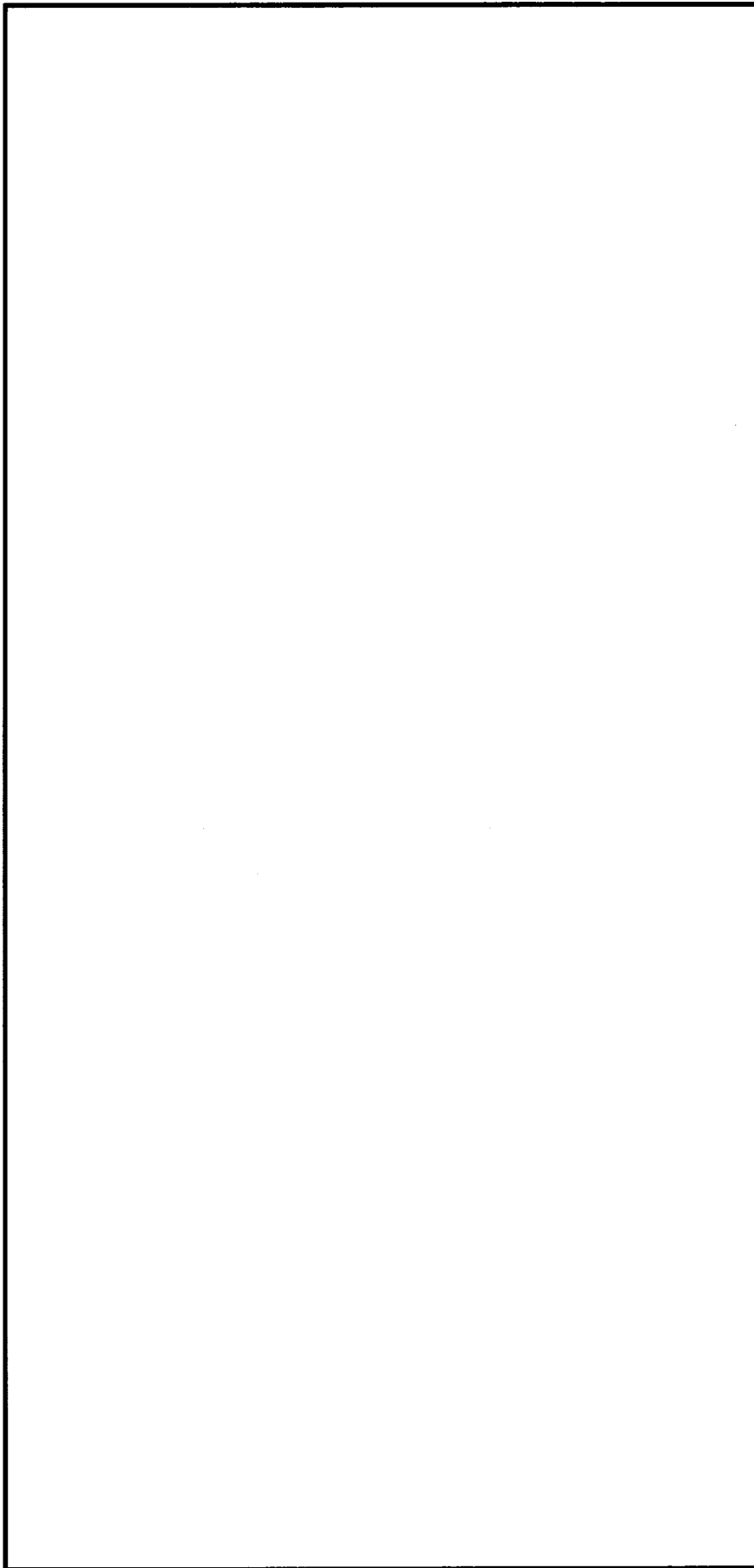
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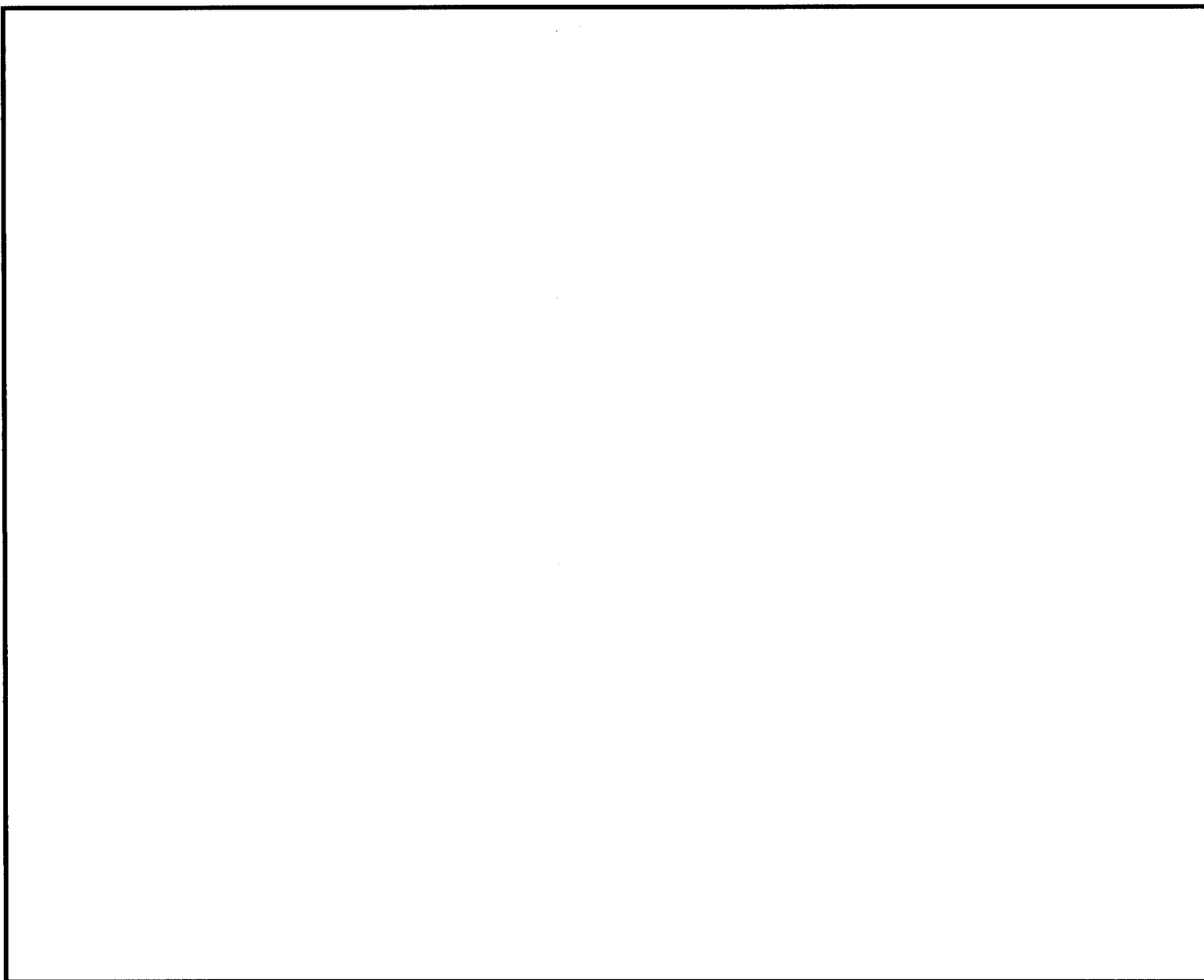
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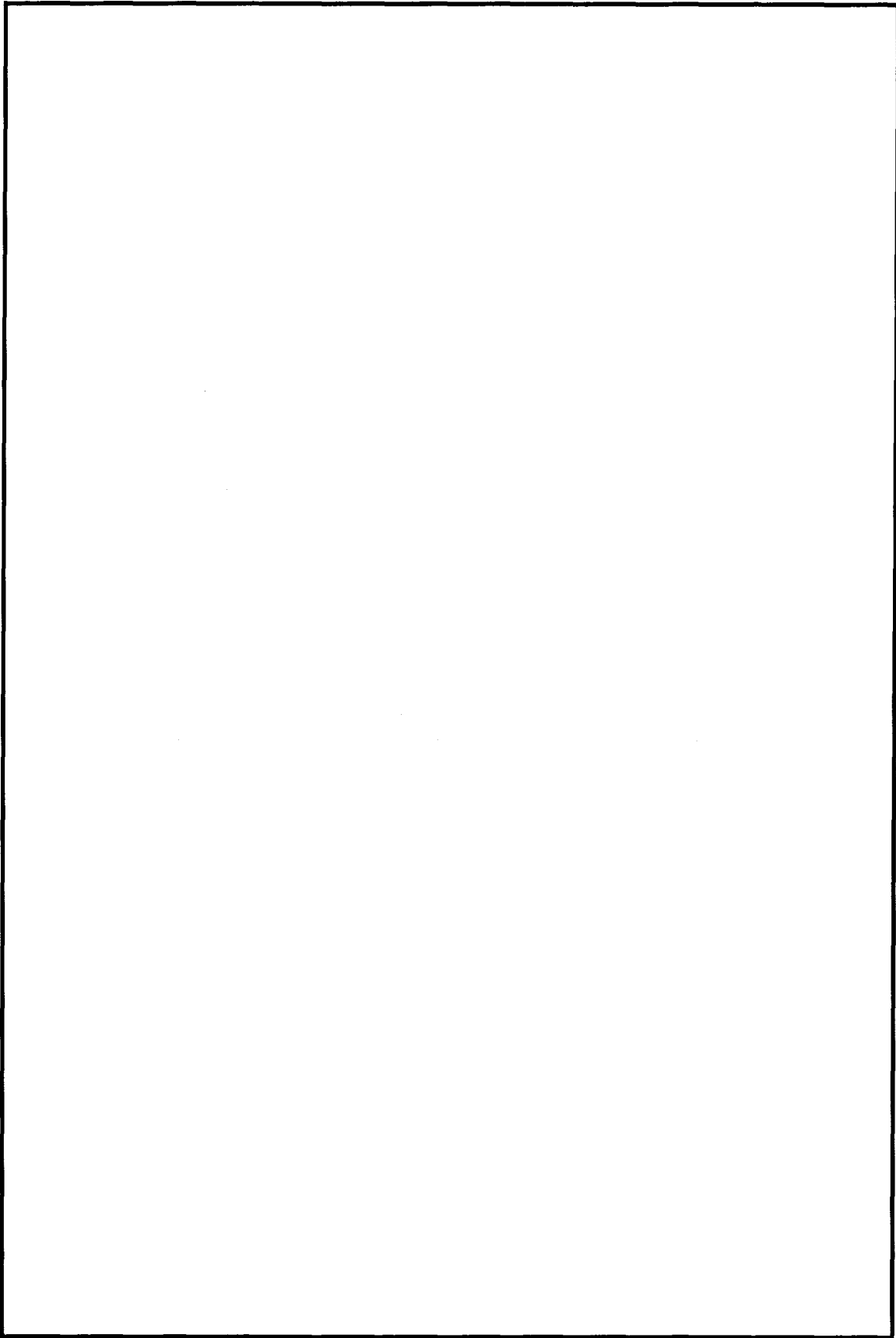
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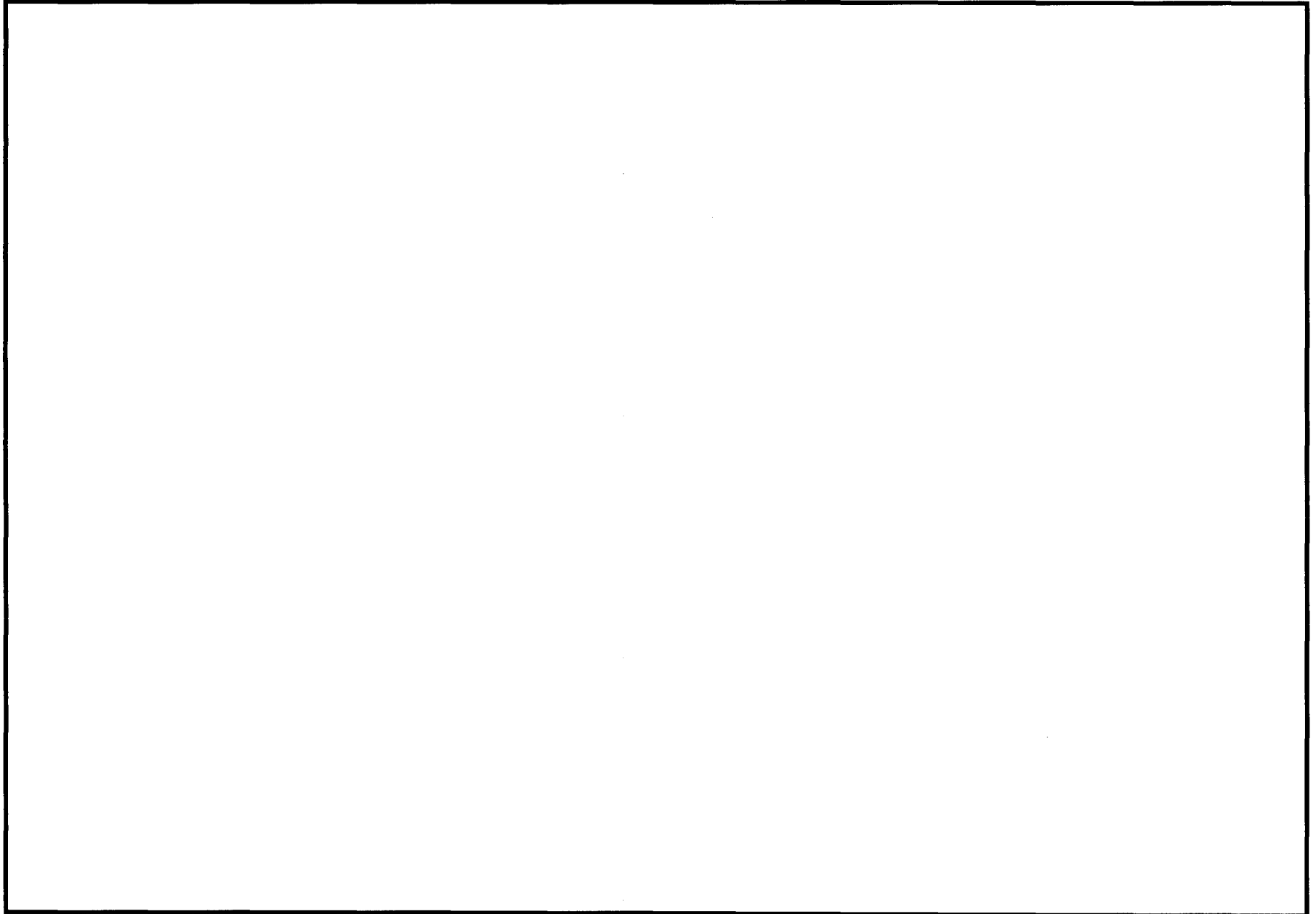
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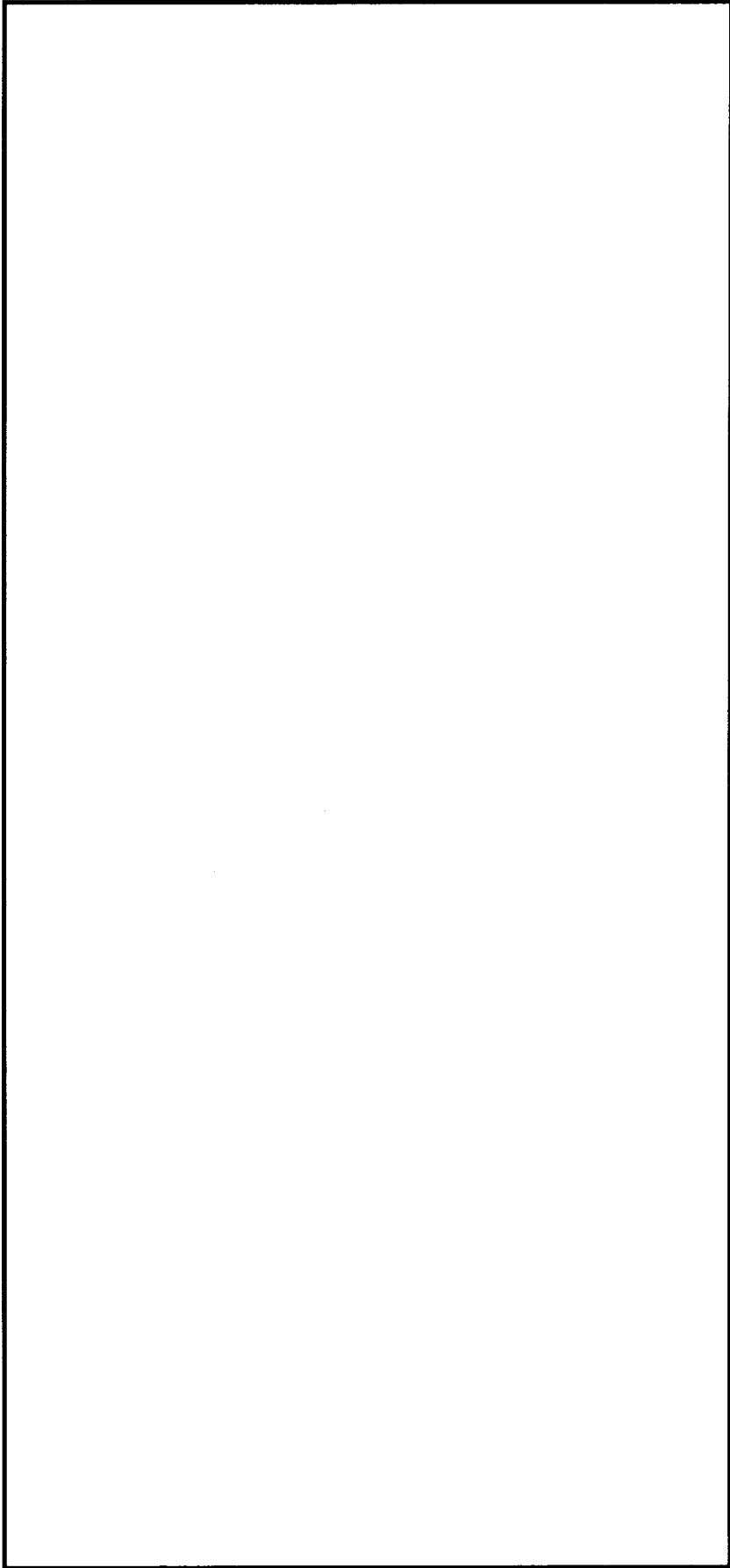
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Bearing leak investigation results

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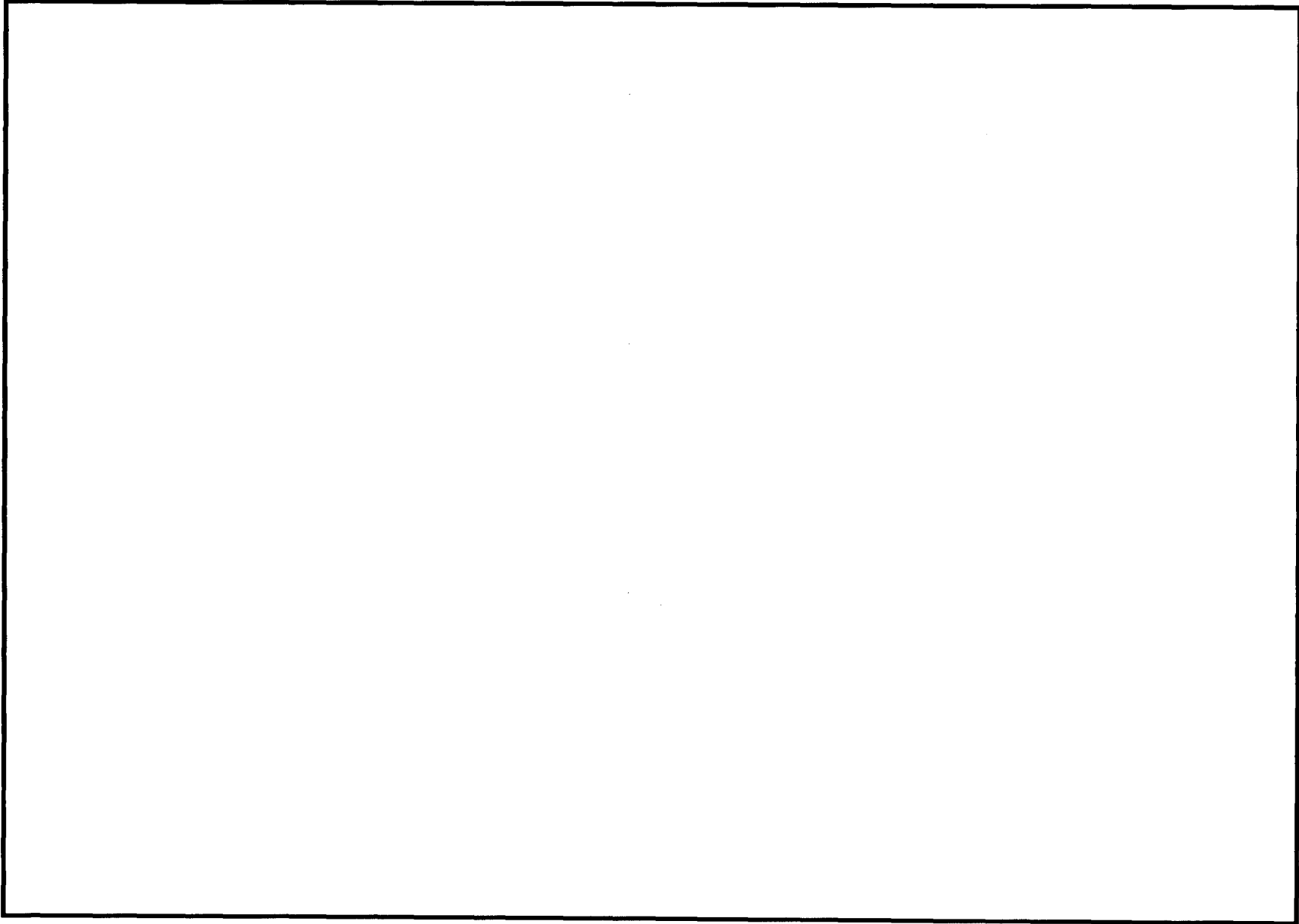


2. Mass production confirmation results

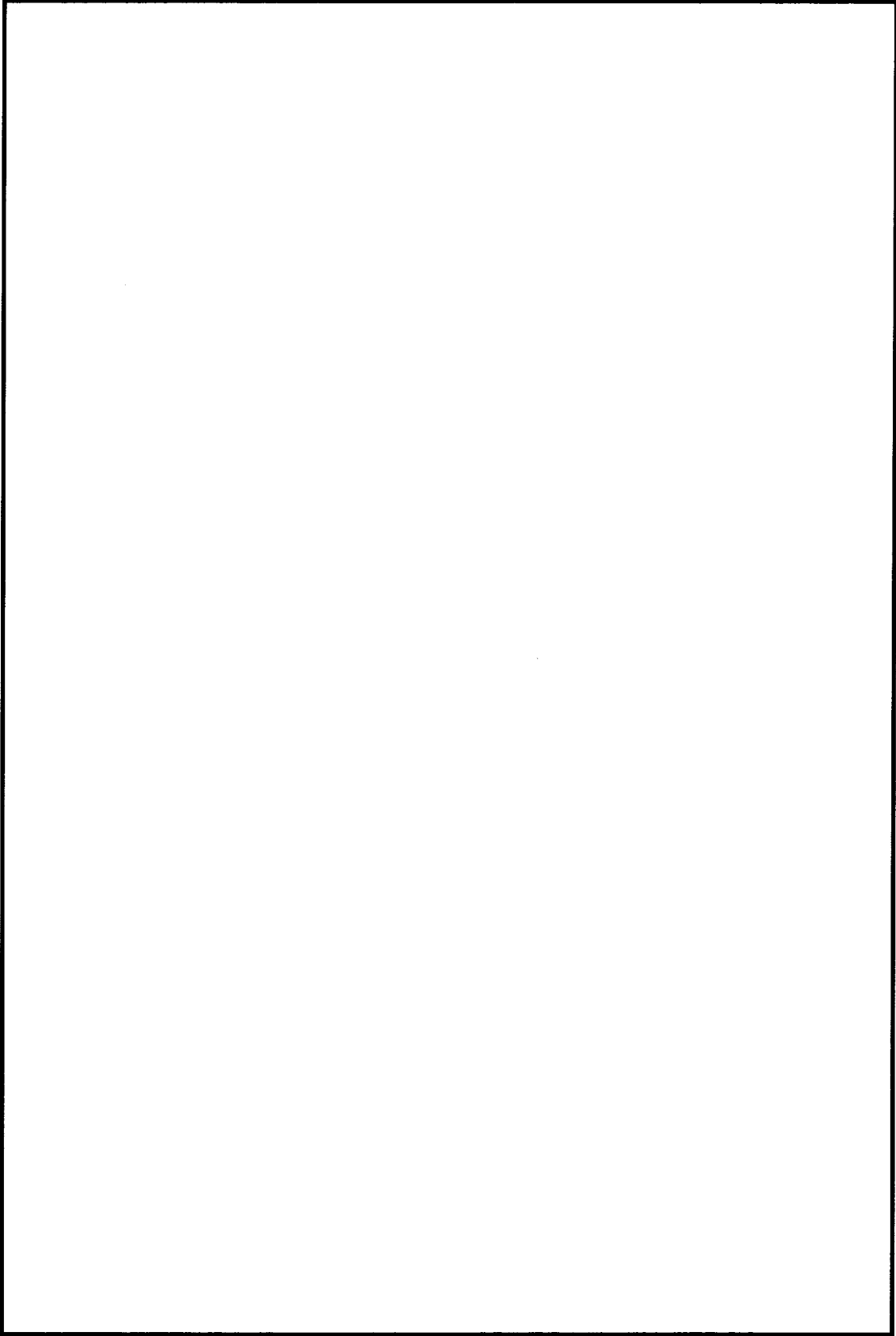


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2-(2)Seal deformation visual inspection results (@Nov.9.2004 17:00)

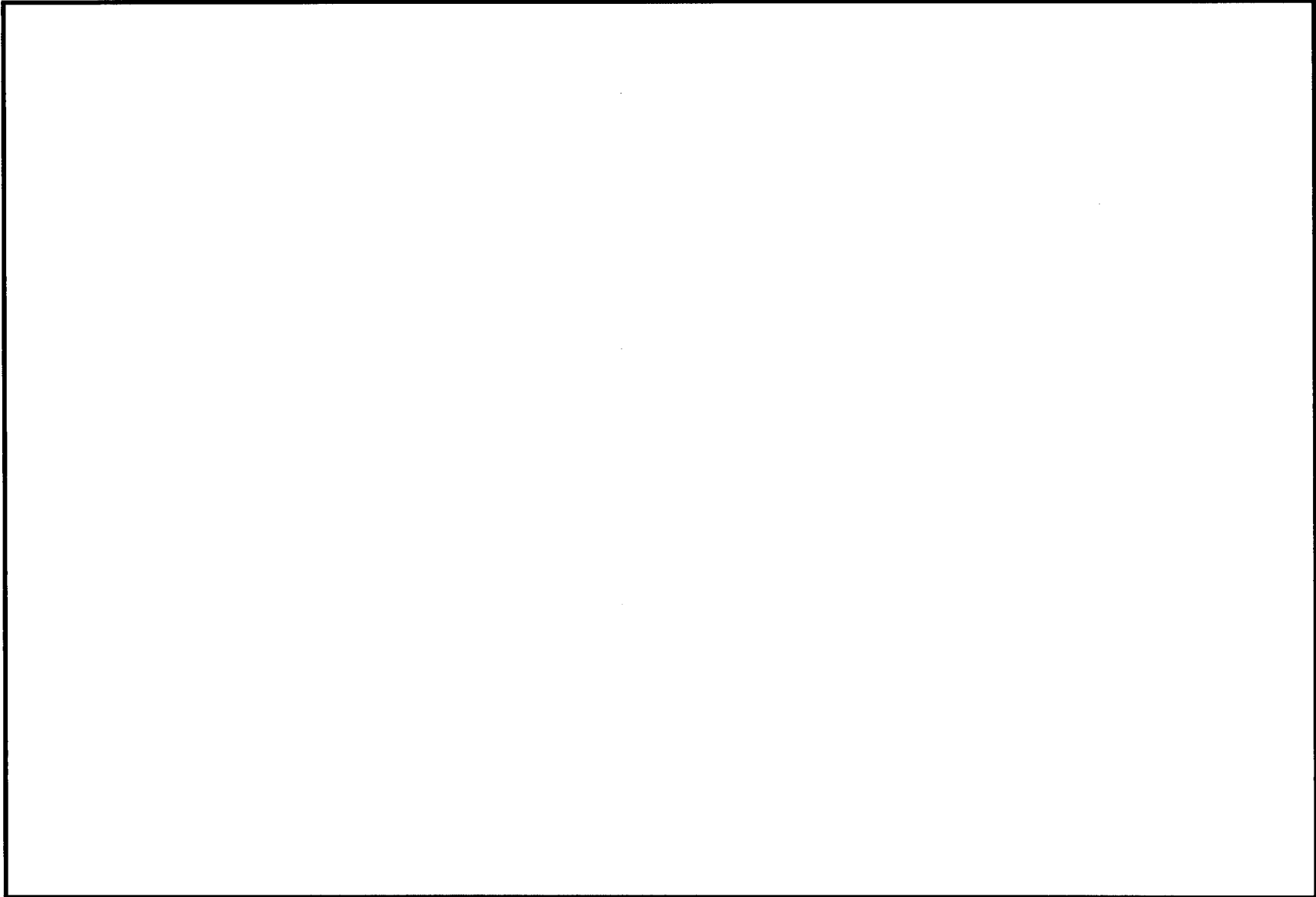


2-(3) Dimension comparison between FPI parts and Aisan Japan parts



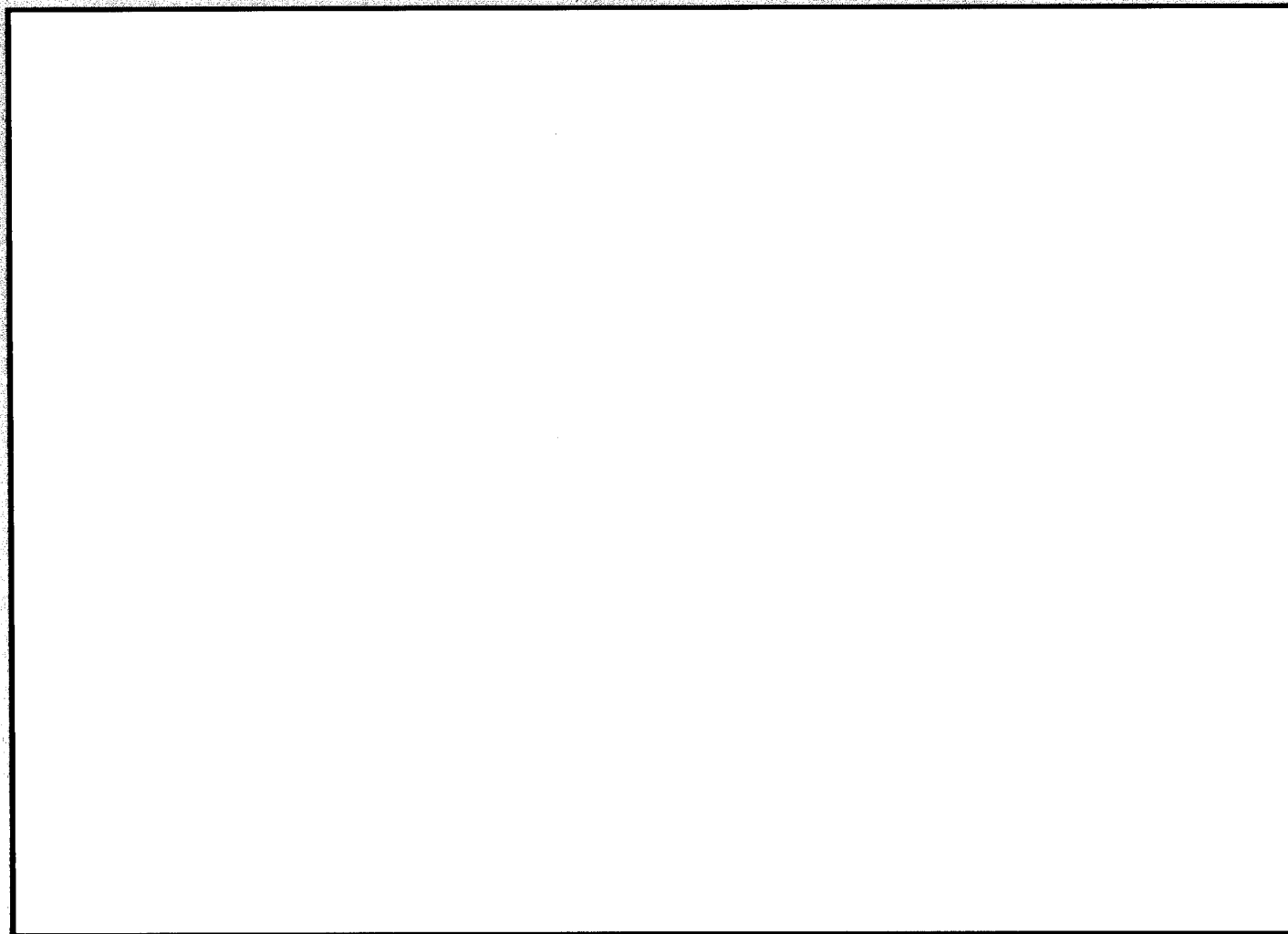
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Hypothetical mechanism about the inversion of ball-bearing seal



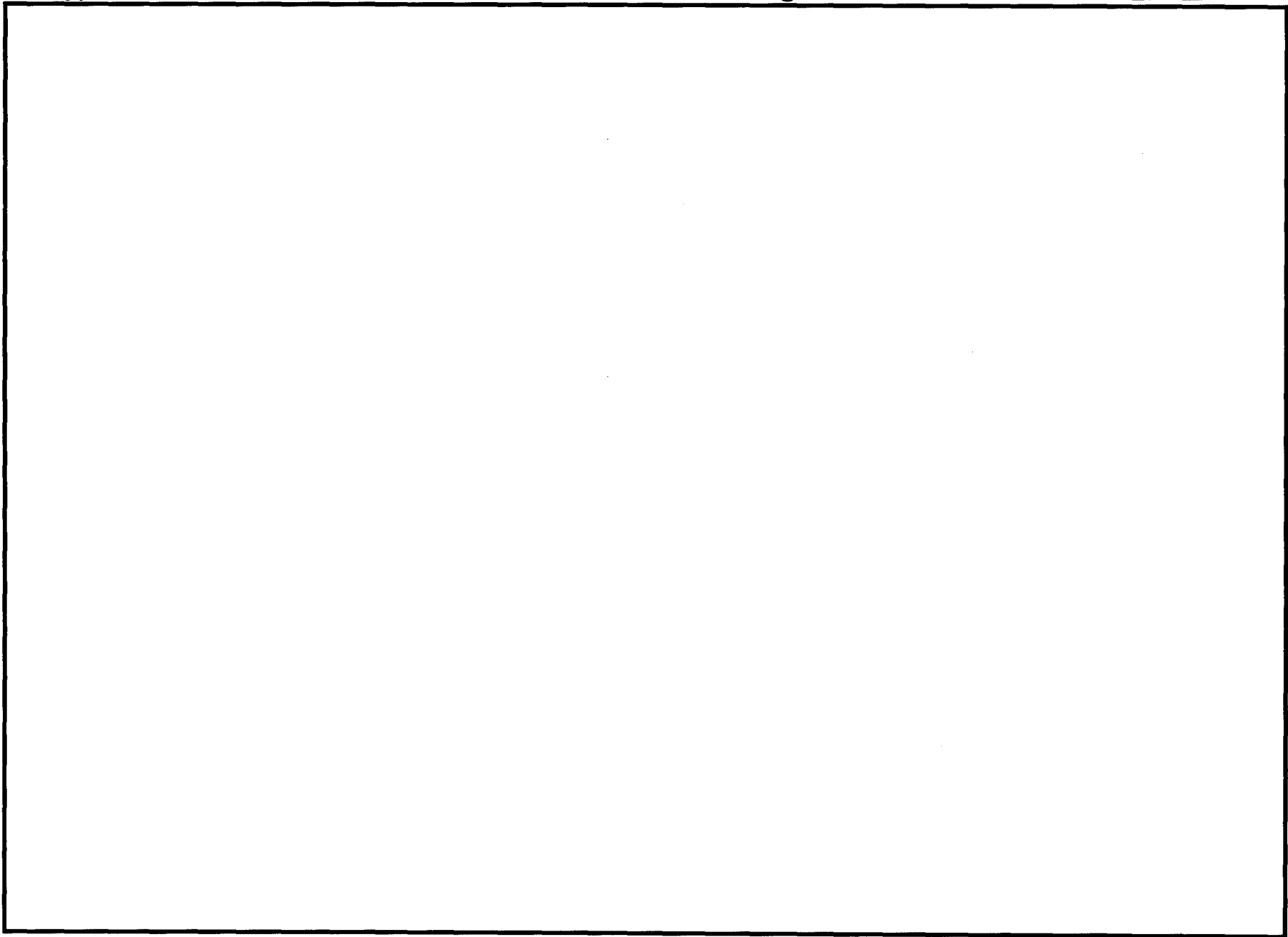
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(2) **Validation test of water sucking into gear box**



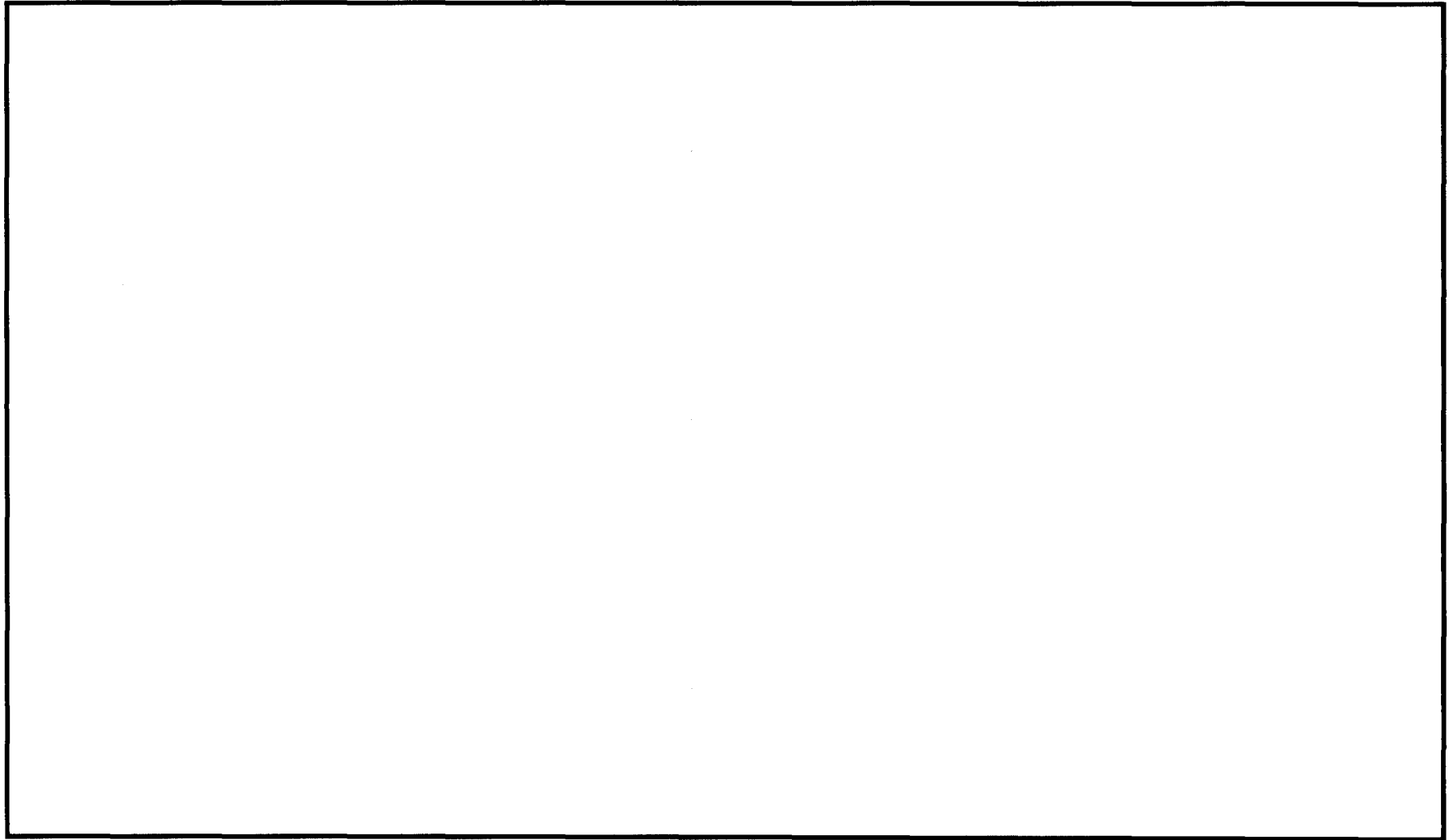
Hypothetical mechanism about the inversion of ball-bearing seal

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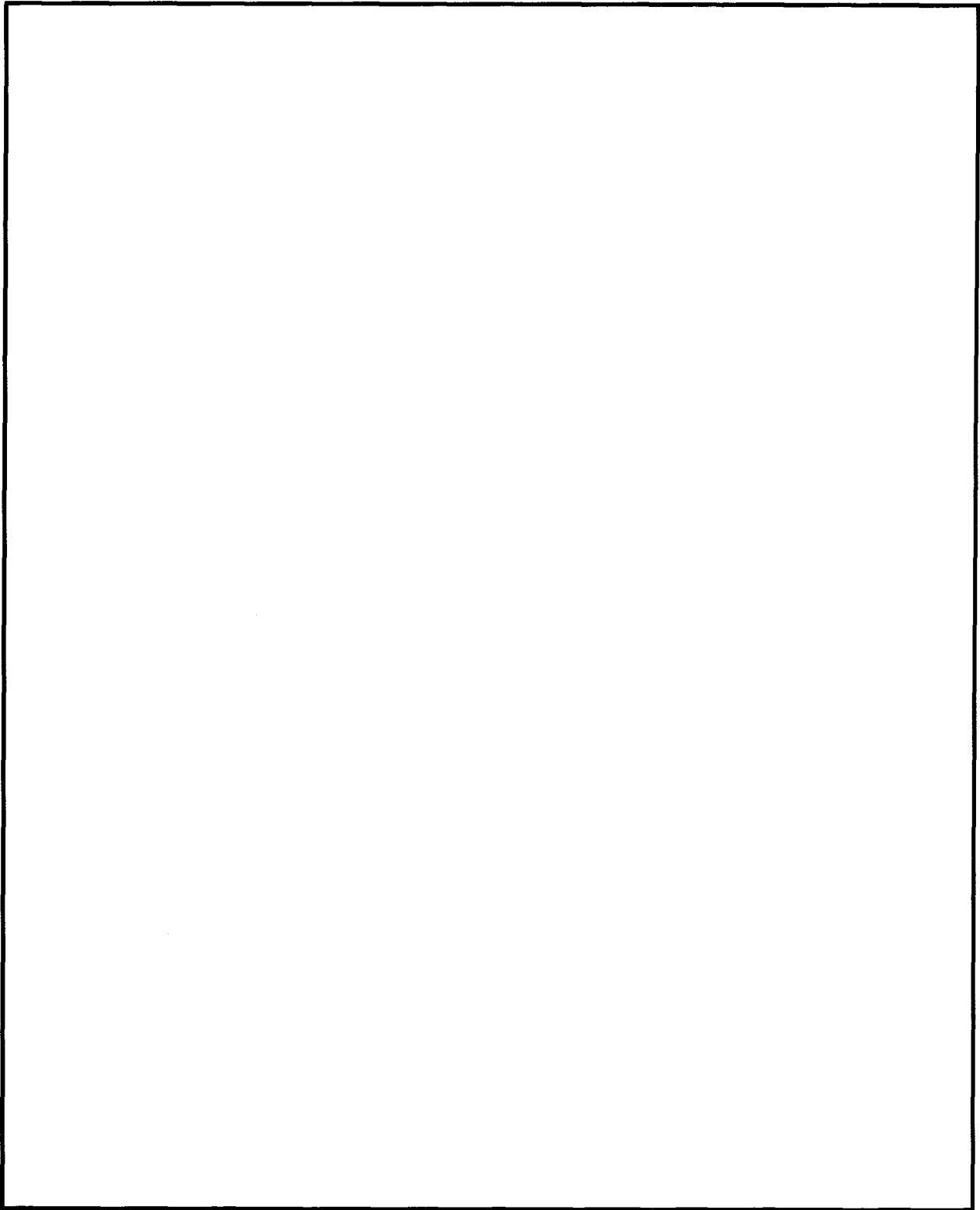


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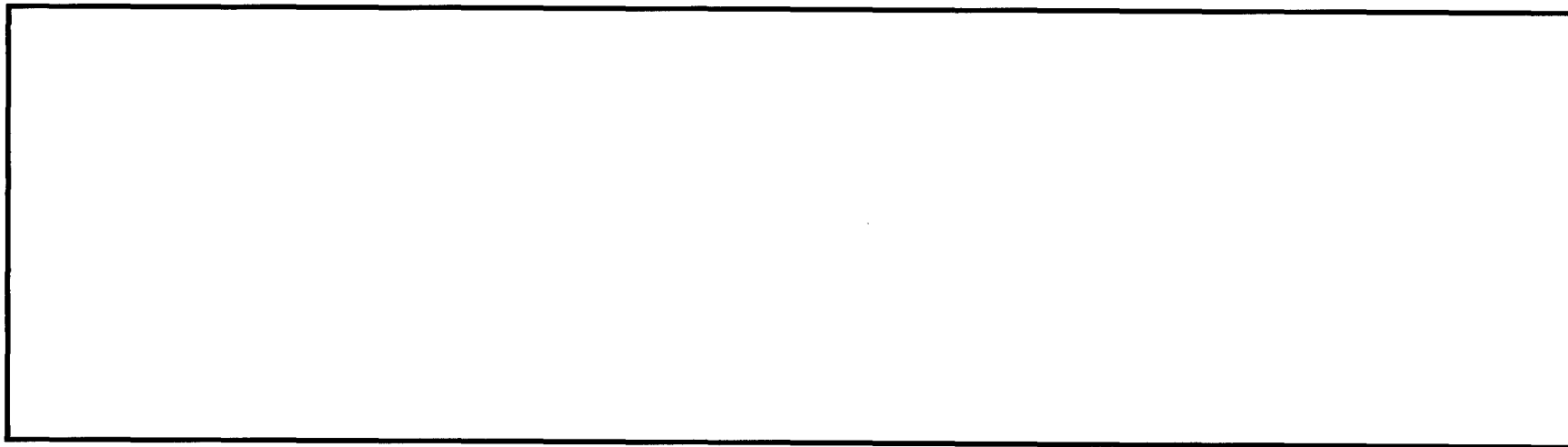
Validation test for bearing seal lip inverted



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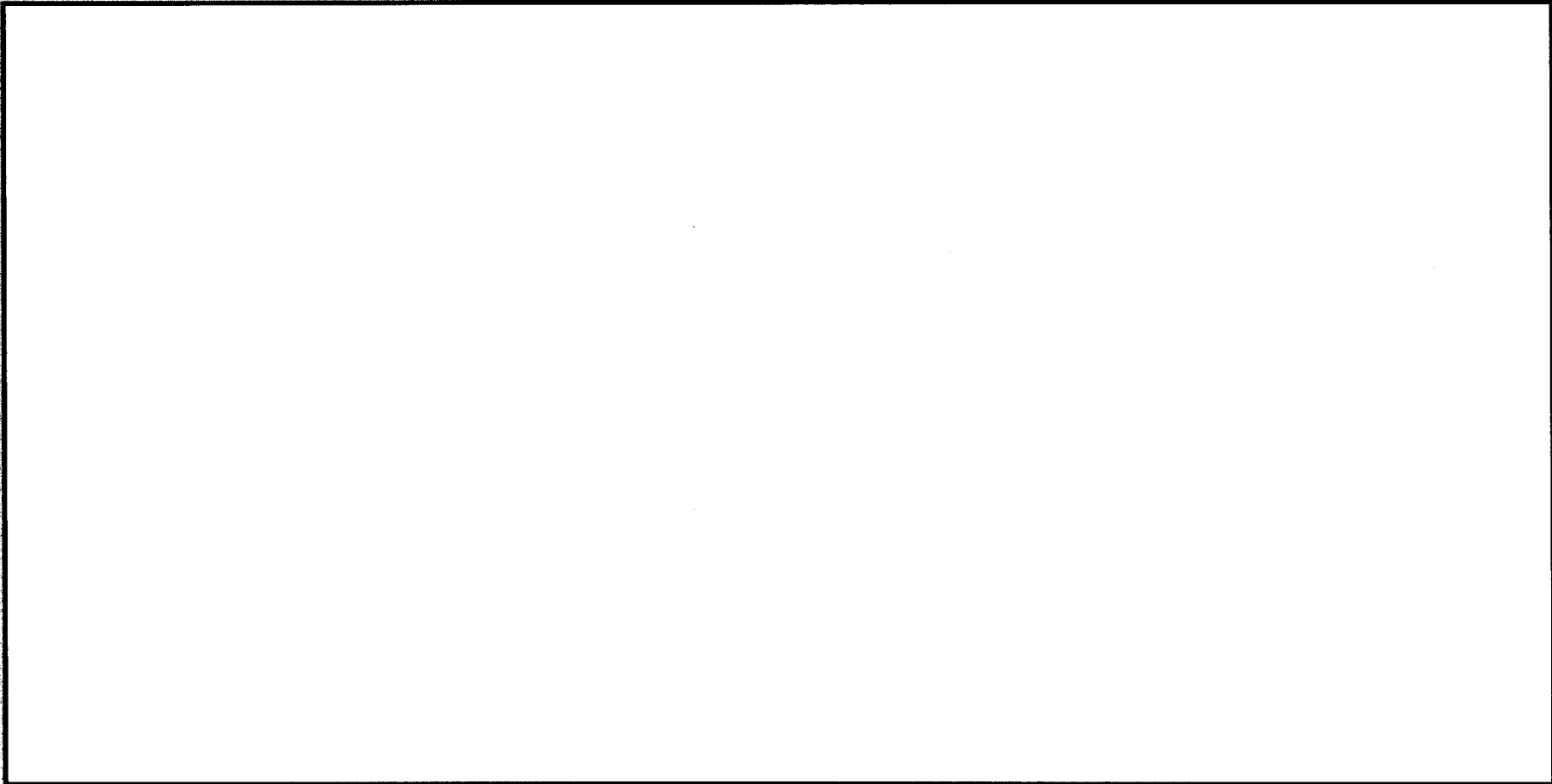


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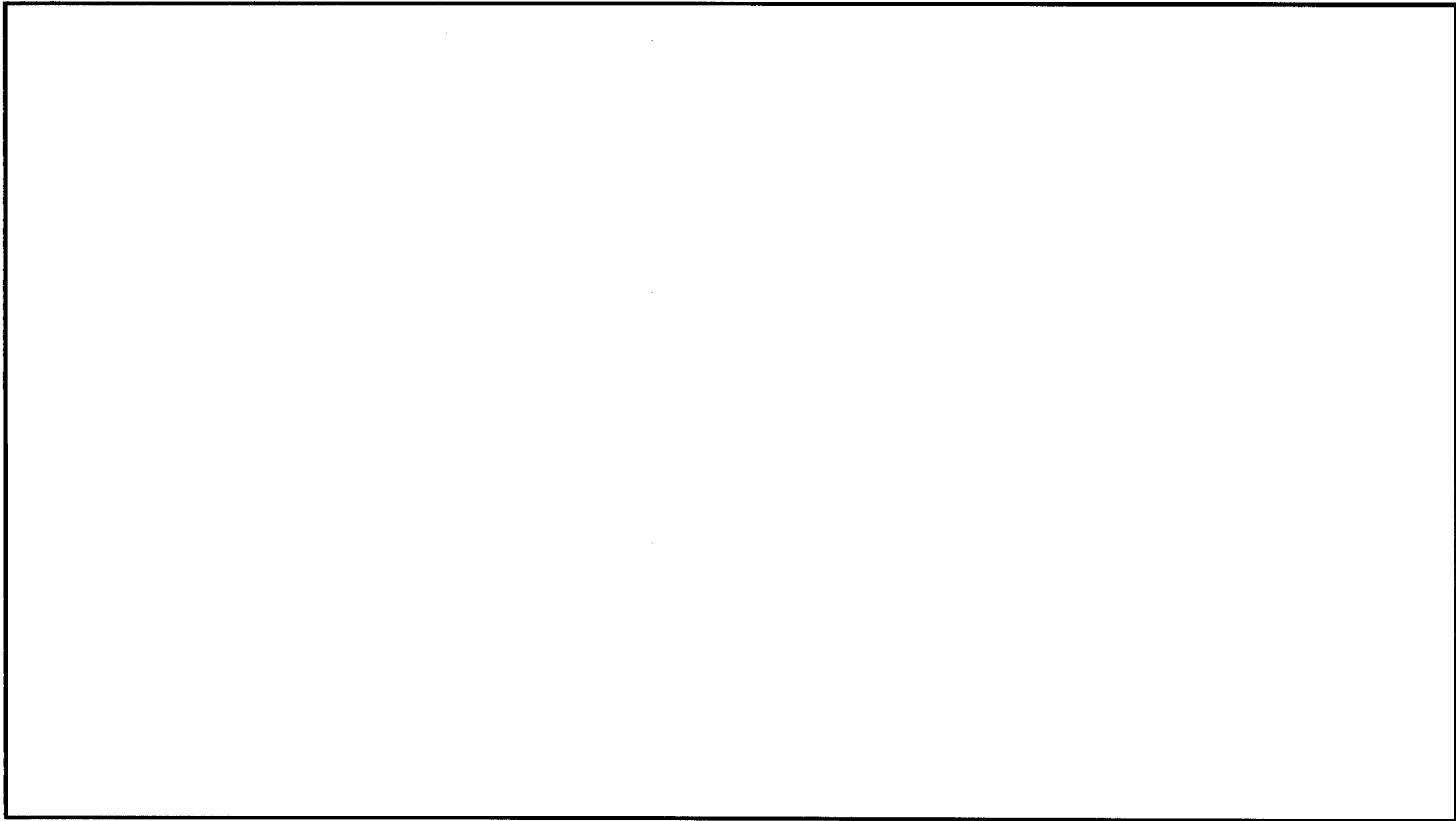
02MY Camry (Contact type sensor E-Throttle DTC : 'P2111' 'P2112')

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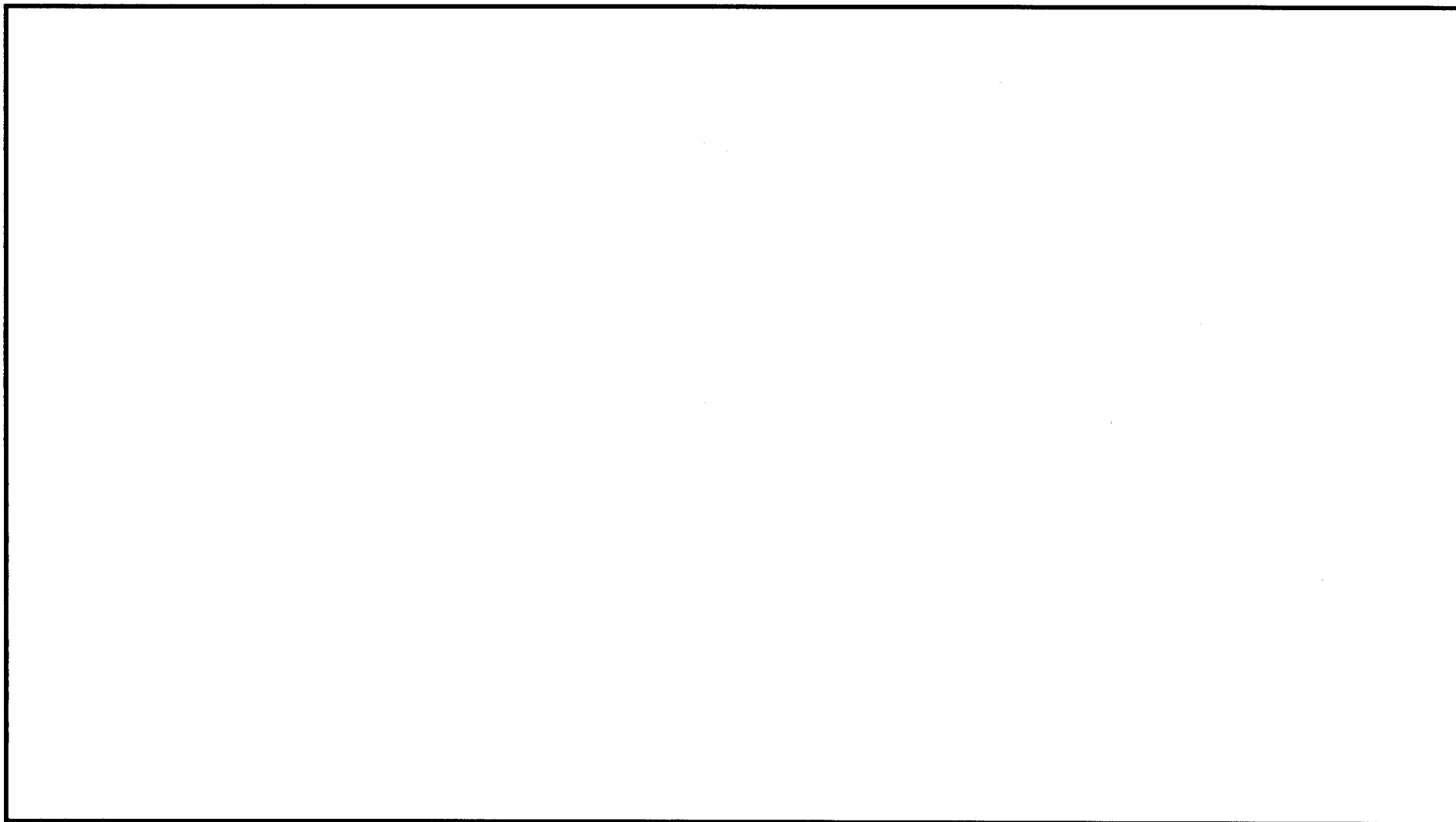
04MY Camry (CCC21) E-Throttle DTC: [P2111] [P2112]

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Inspection criteria of airtightness



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Attachment 6-3

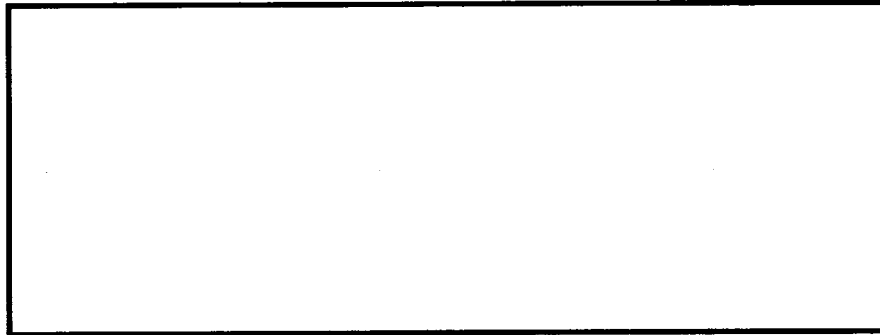
Investigation Reports of Returned Parts

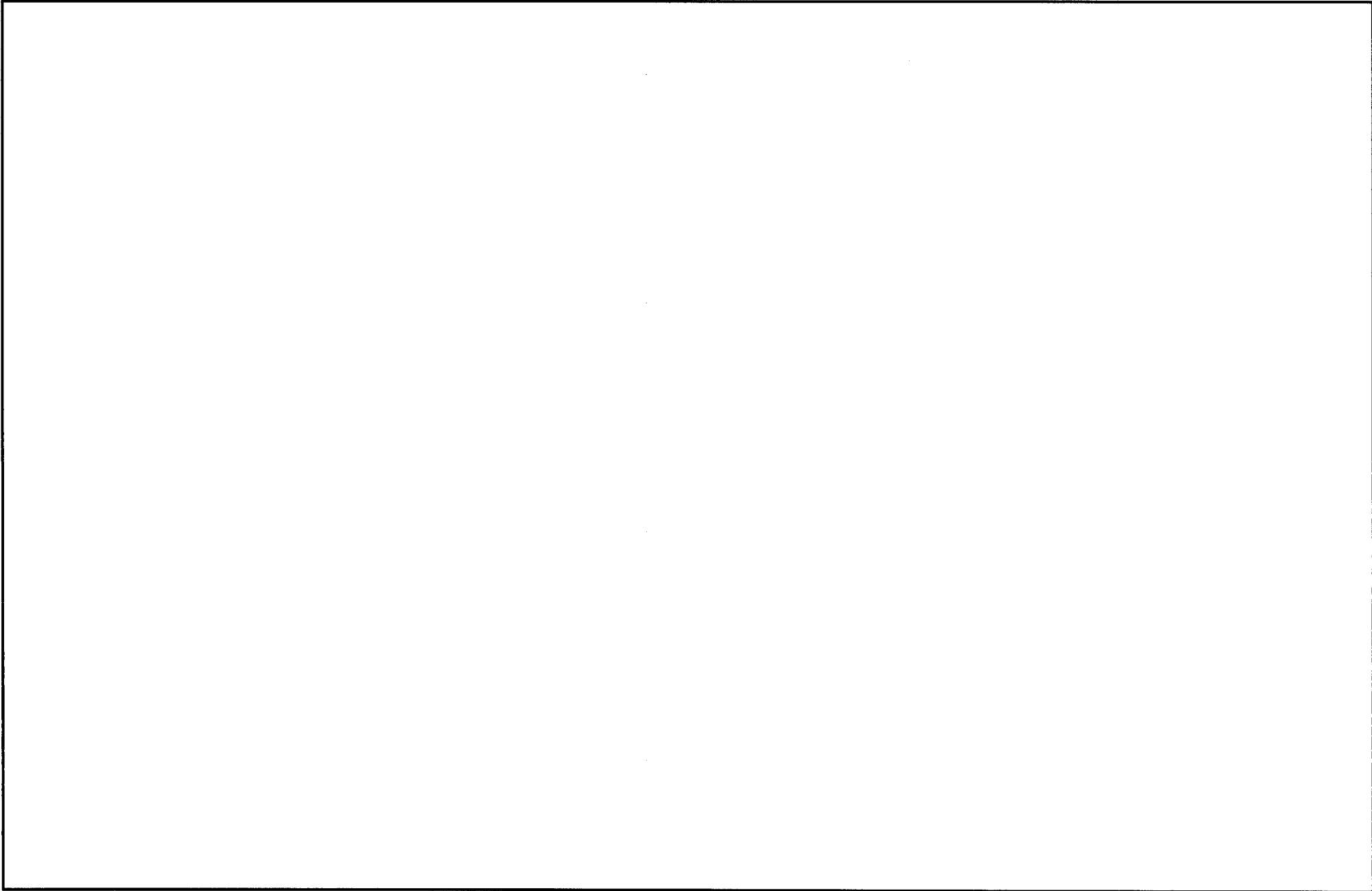
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2001/11/19

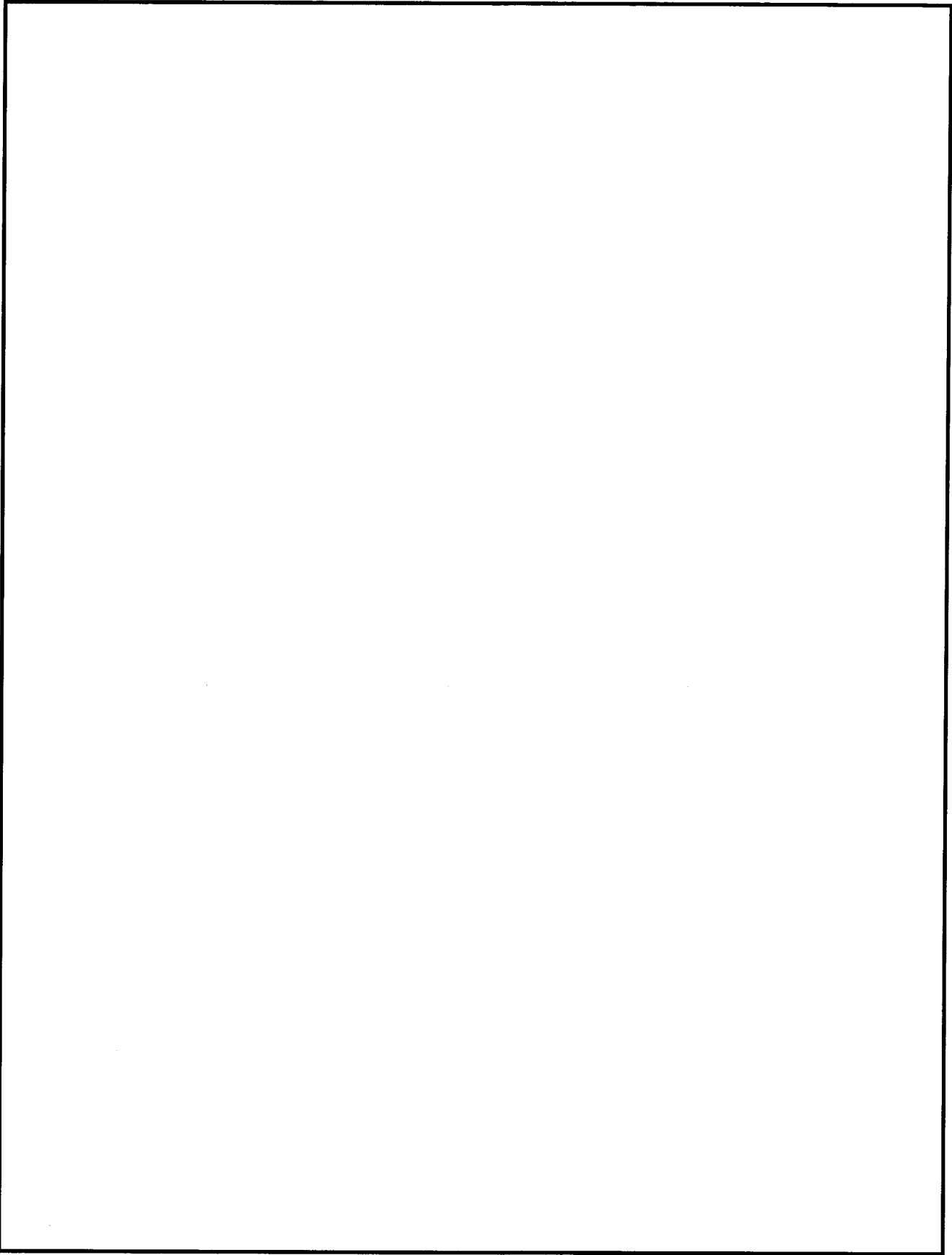
AISAN INDUSTRY Co., Ltd.
Product Development Dept. I
Plant Administration Dept.
Quality Assurance Dept.

2004MY Camry 2AZ Electric Throttle body Report



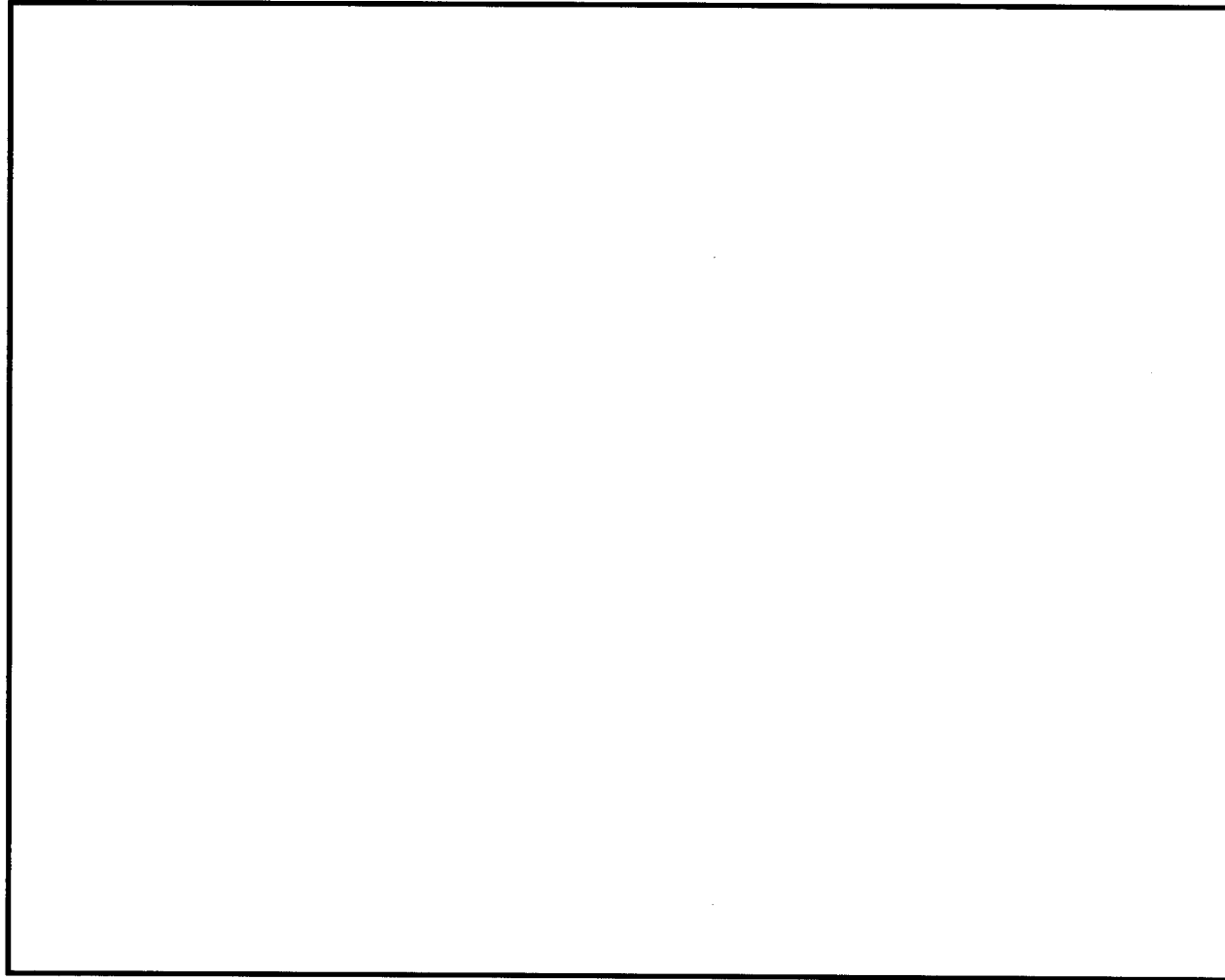


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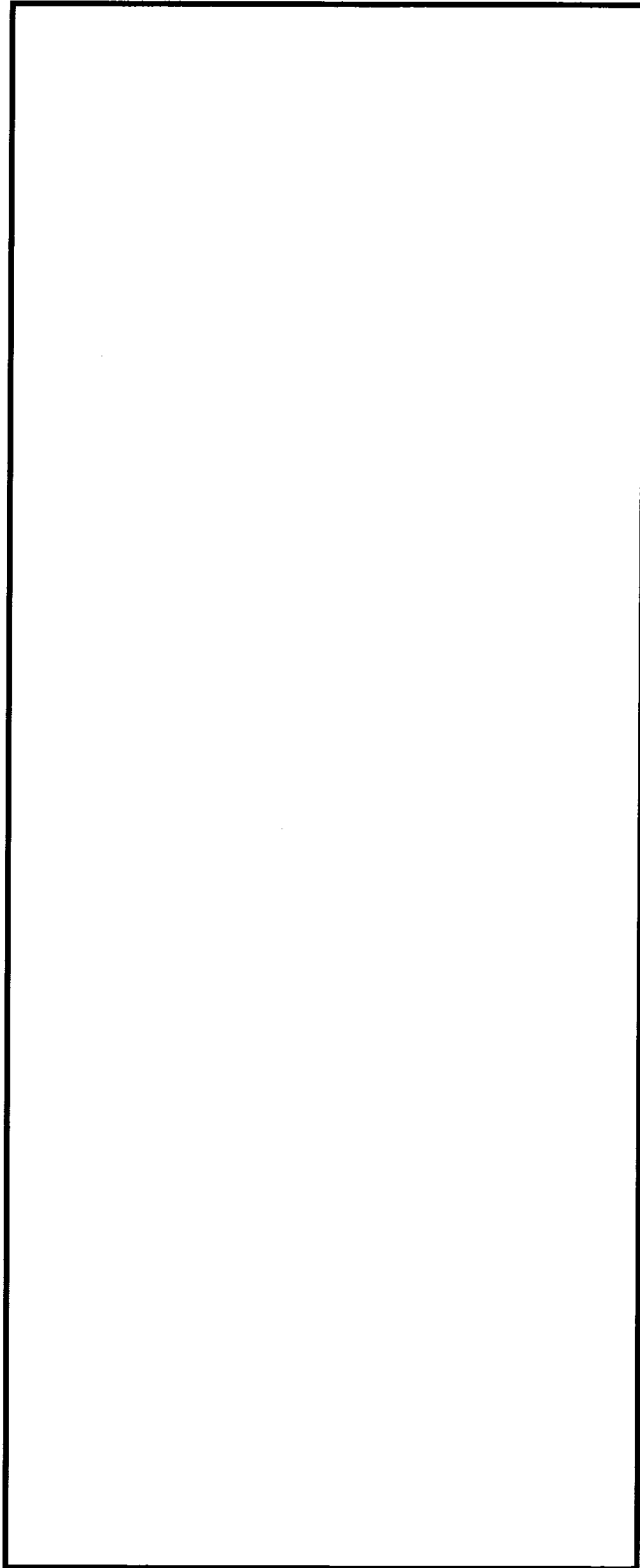


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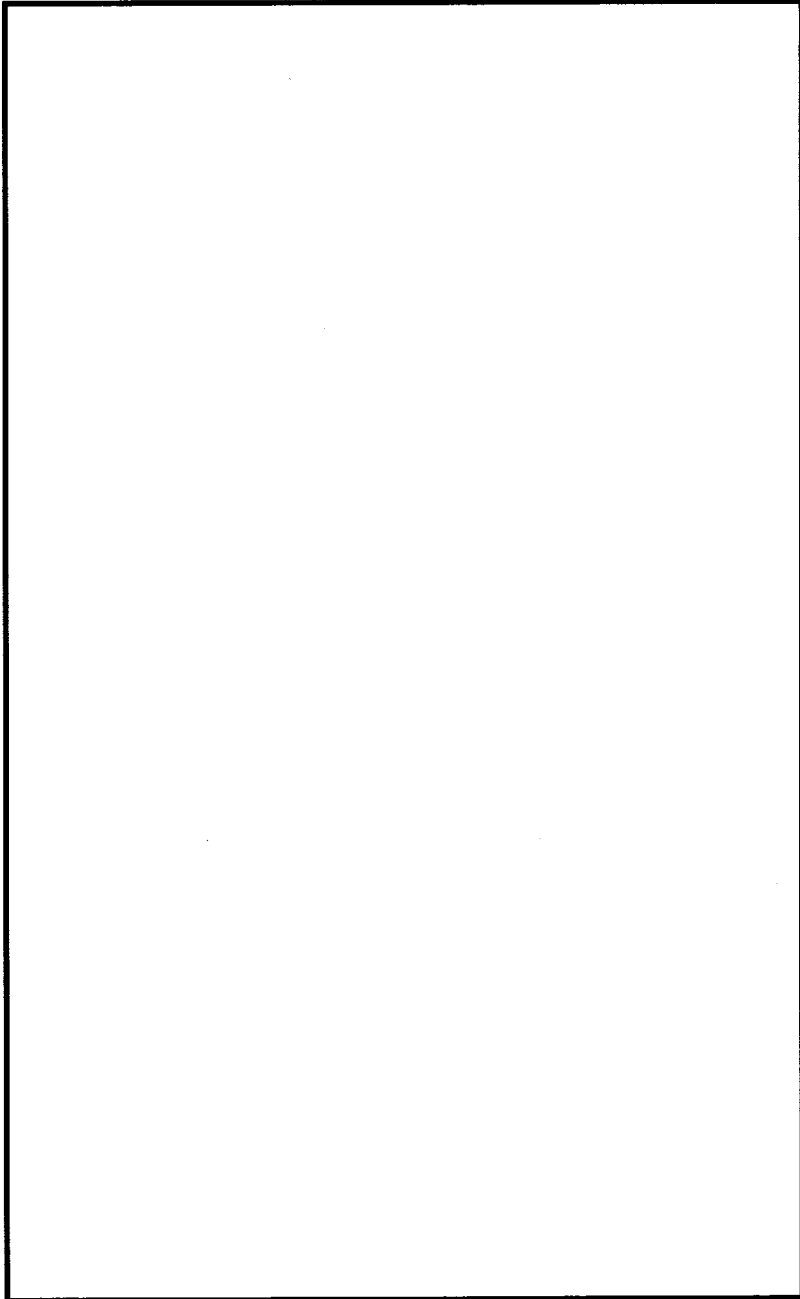
Inside of gear box expansion



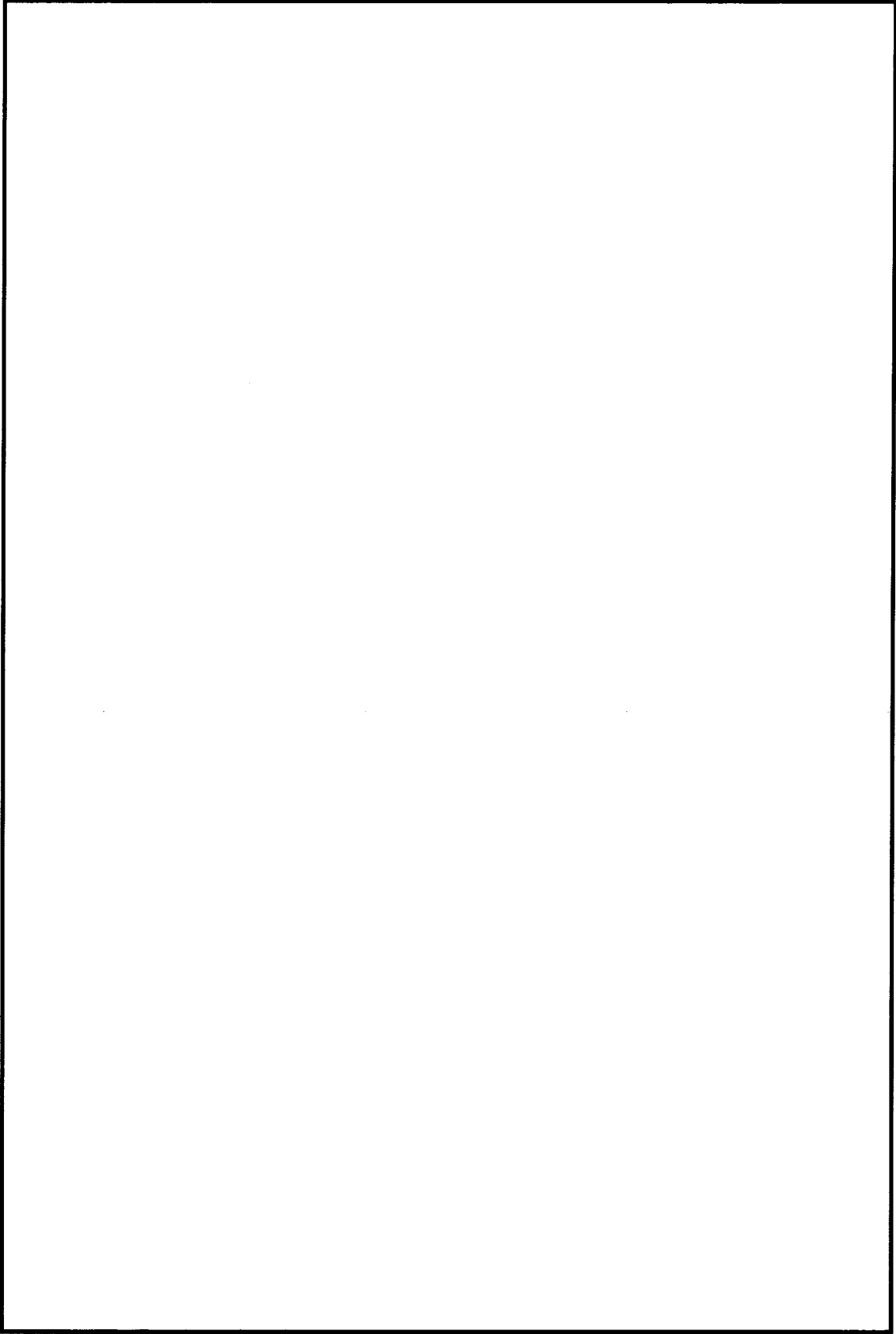
TAS in gear box



Bearing seal [North America No.2]

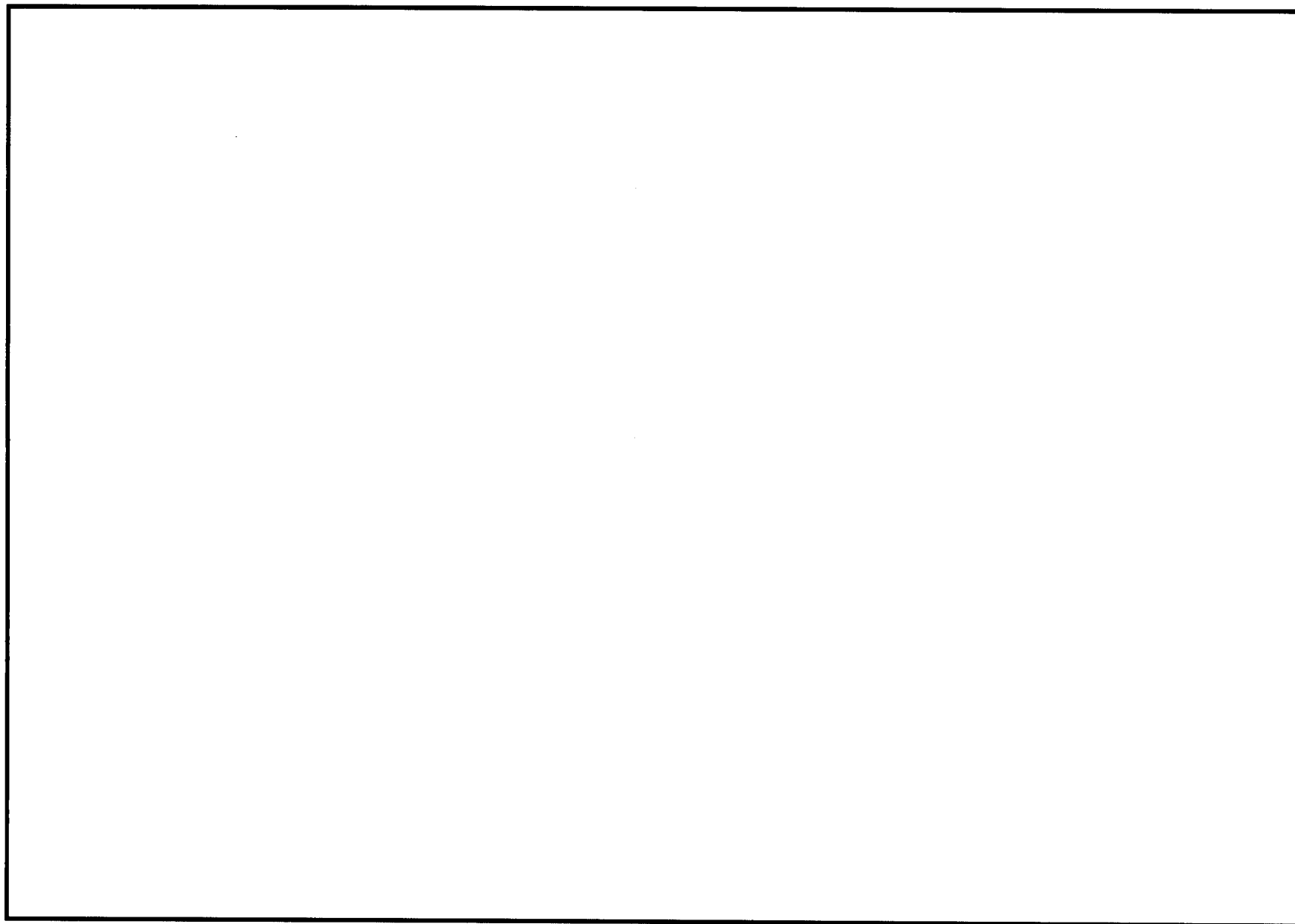


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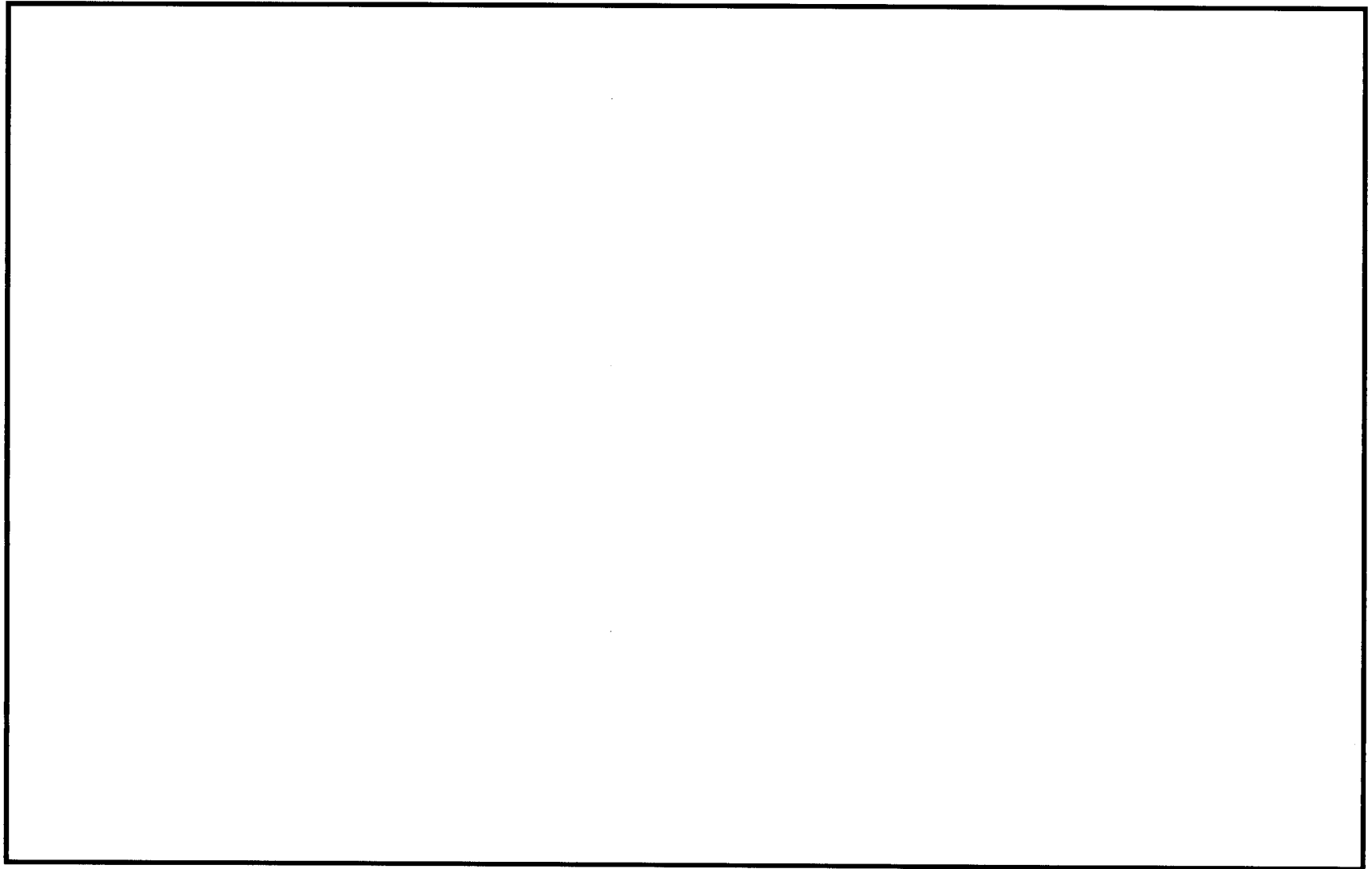


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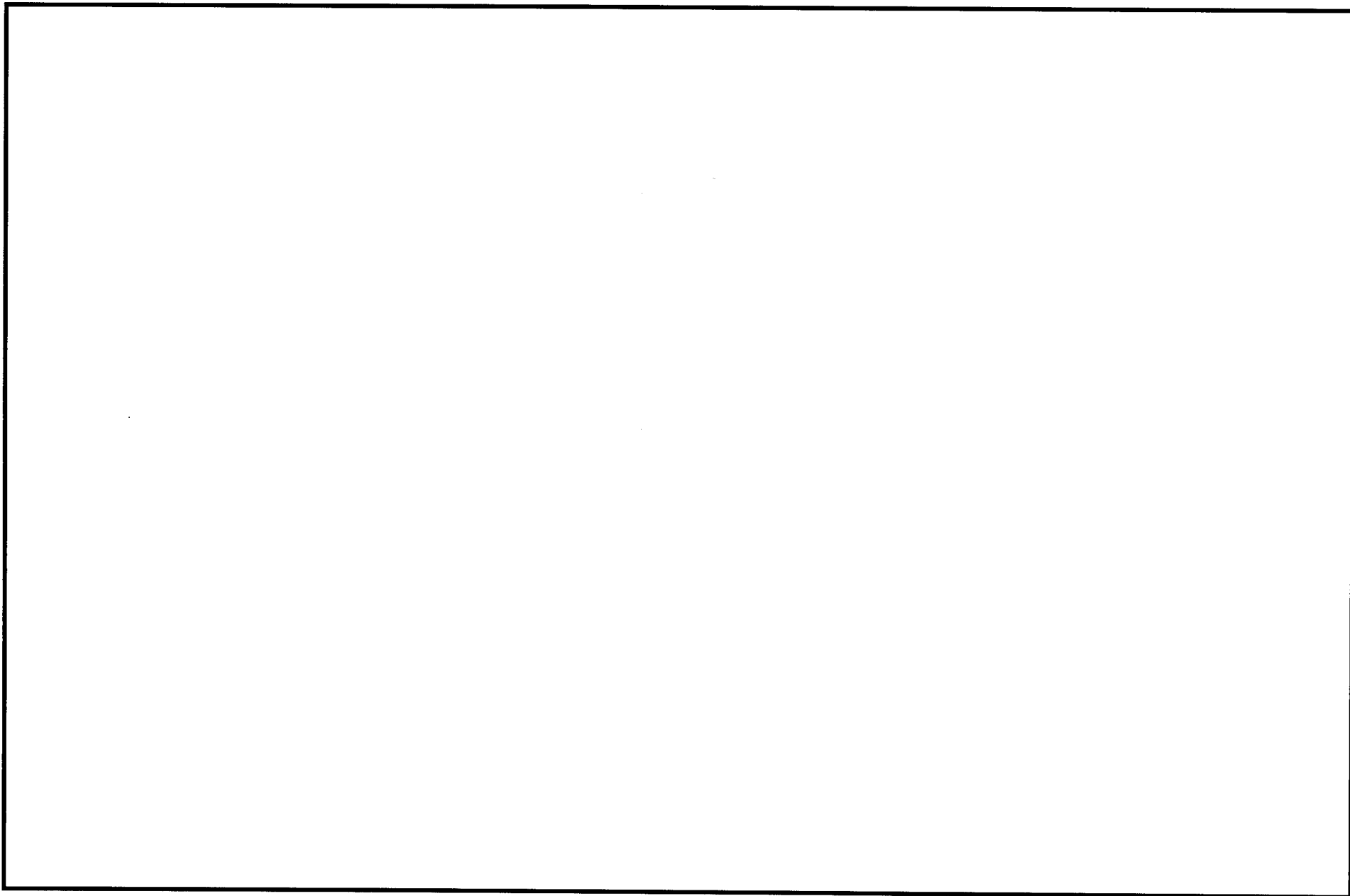
[2] Confirmation result of mass production (@Nov.16.2004 15:00)



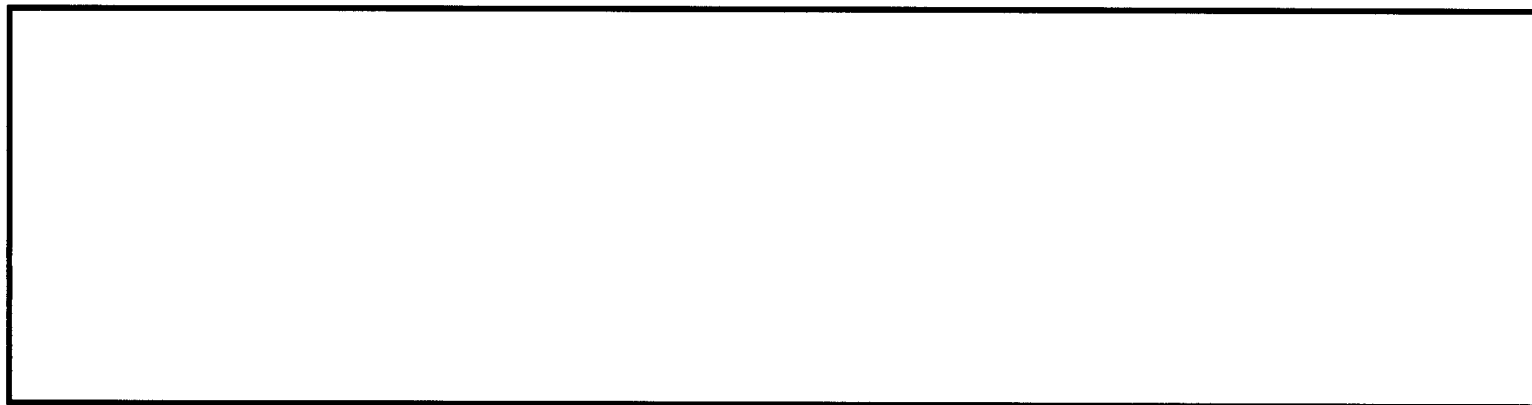
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Attachment 6-4

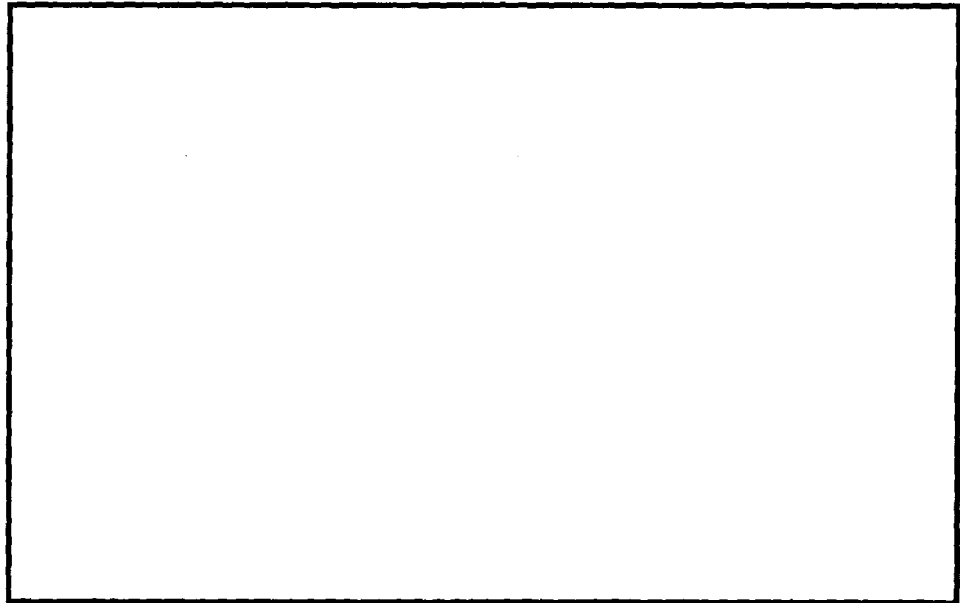
Investigation Reports of Returned Parts

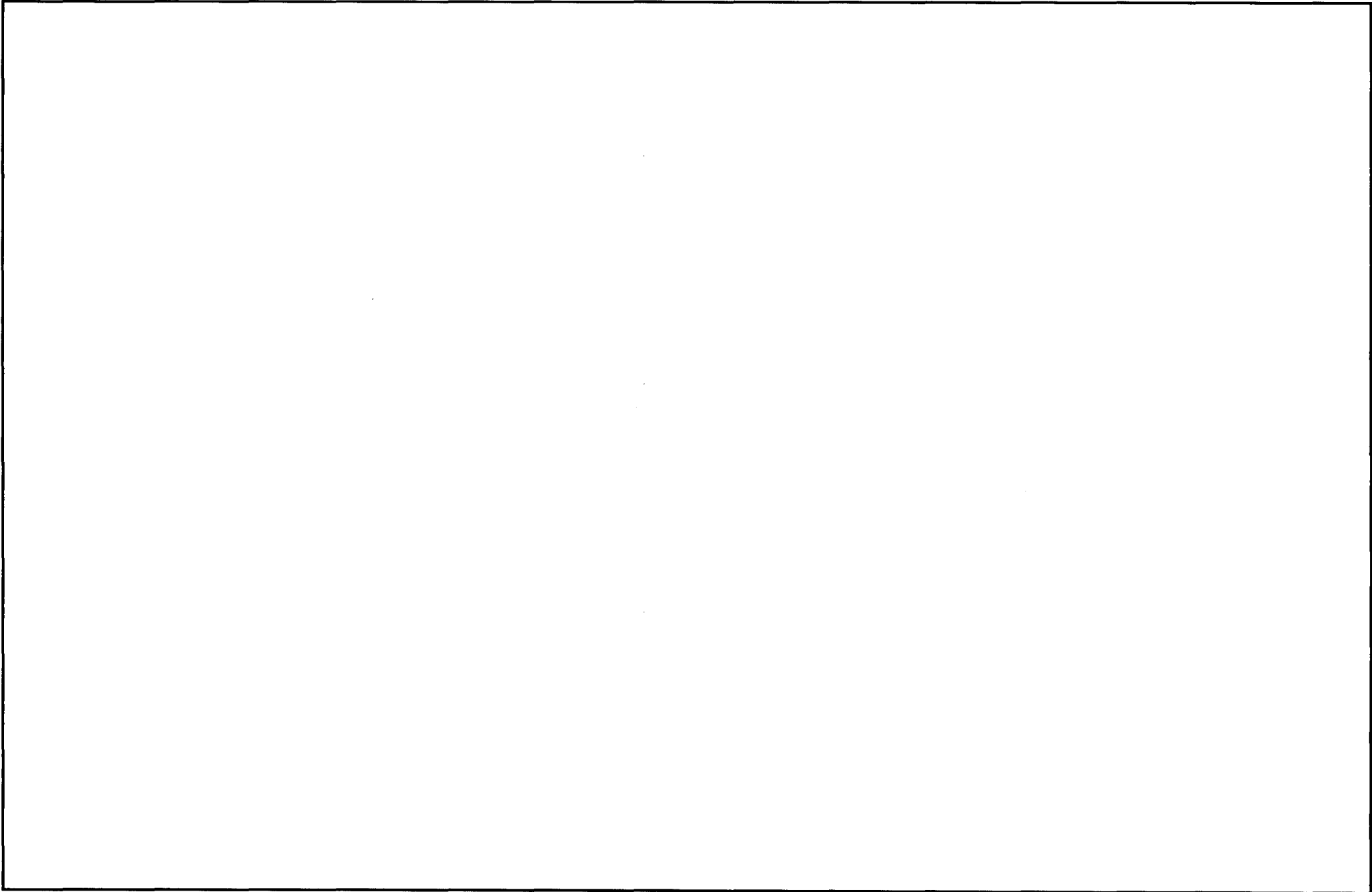
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2004/12/3

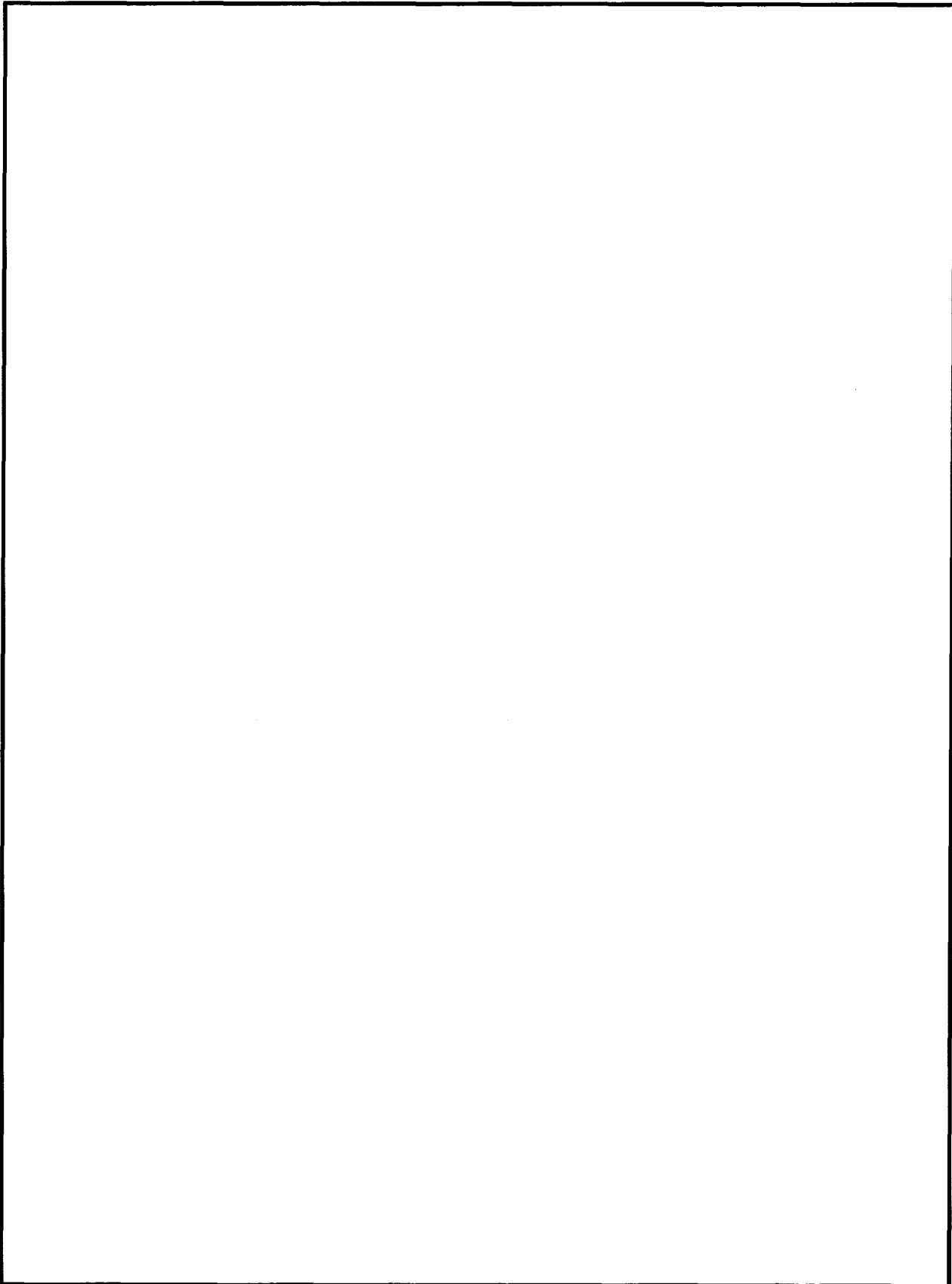
AISAN INDUSTRY Co., Ltd.
Product Development Dept. I
Quality Assurance Dept.

2004MY Camry 2AZ Electric Throttle body Report





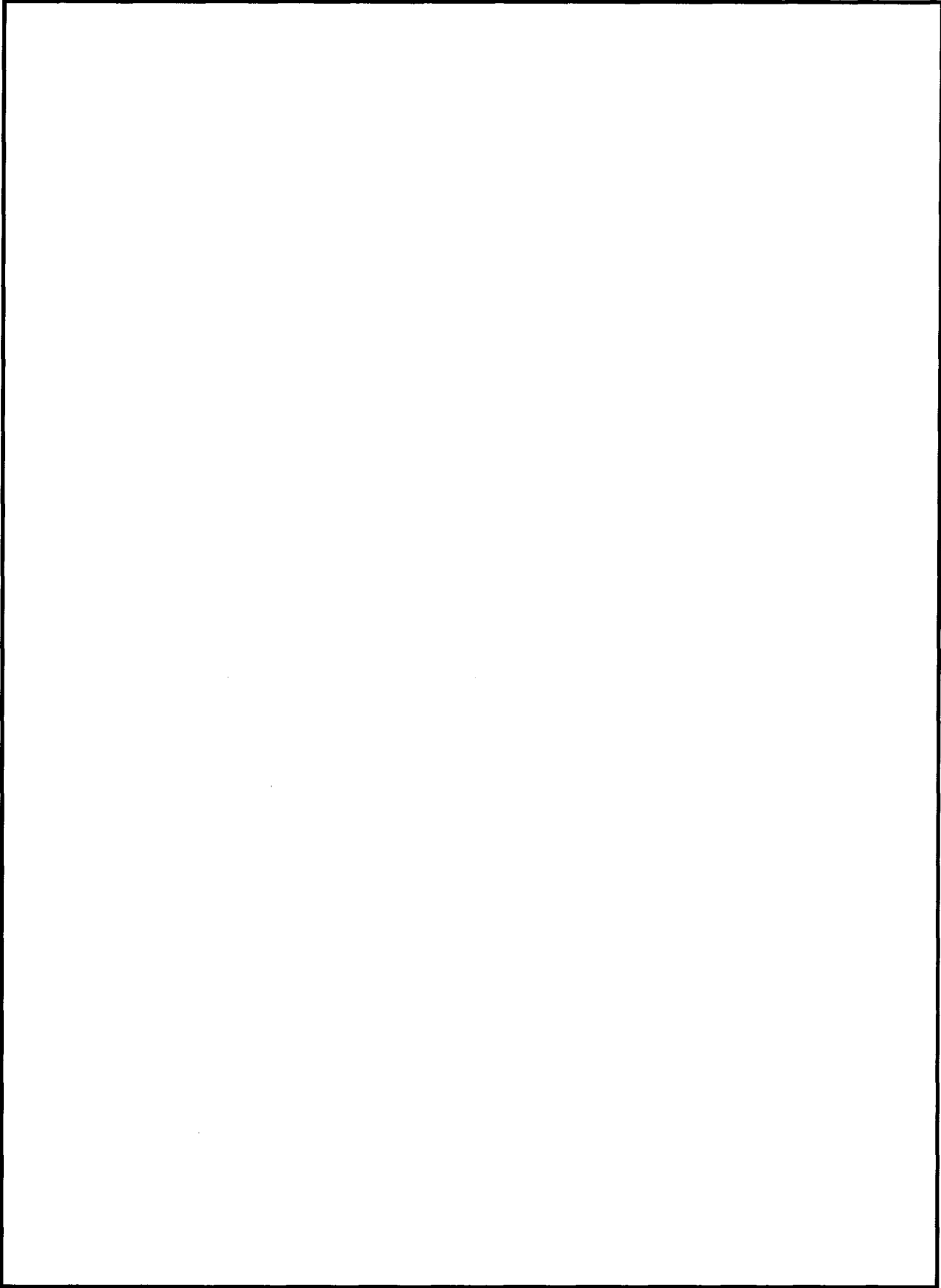
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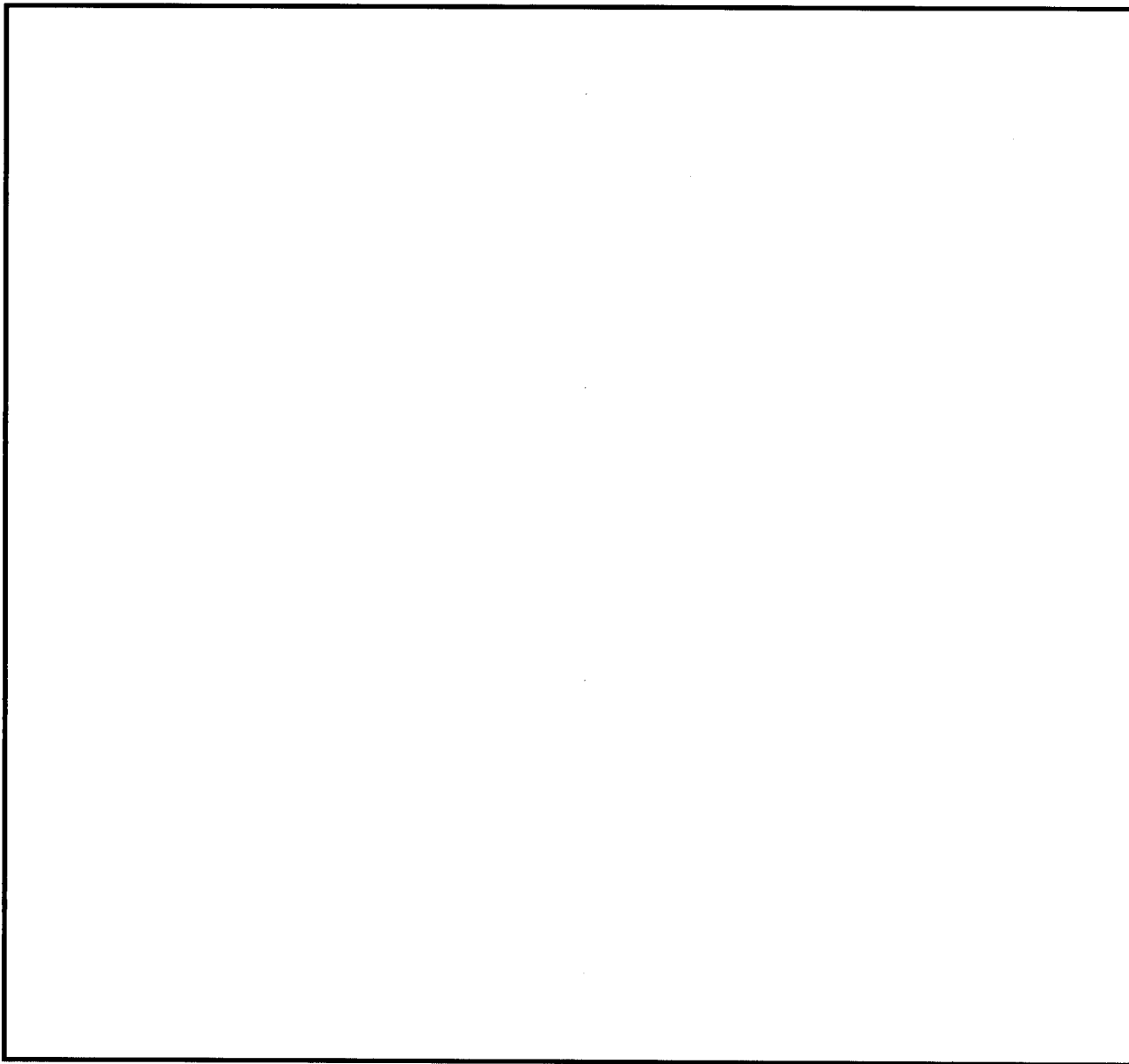
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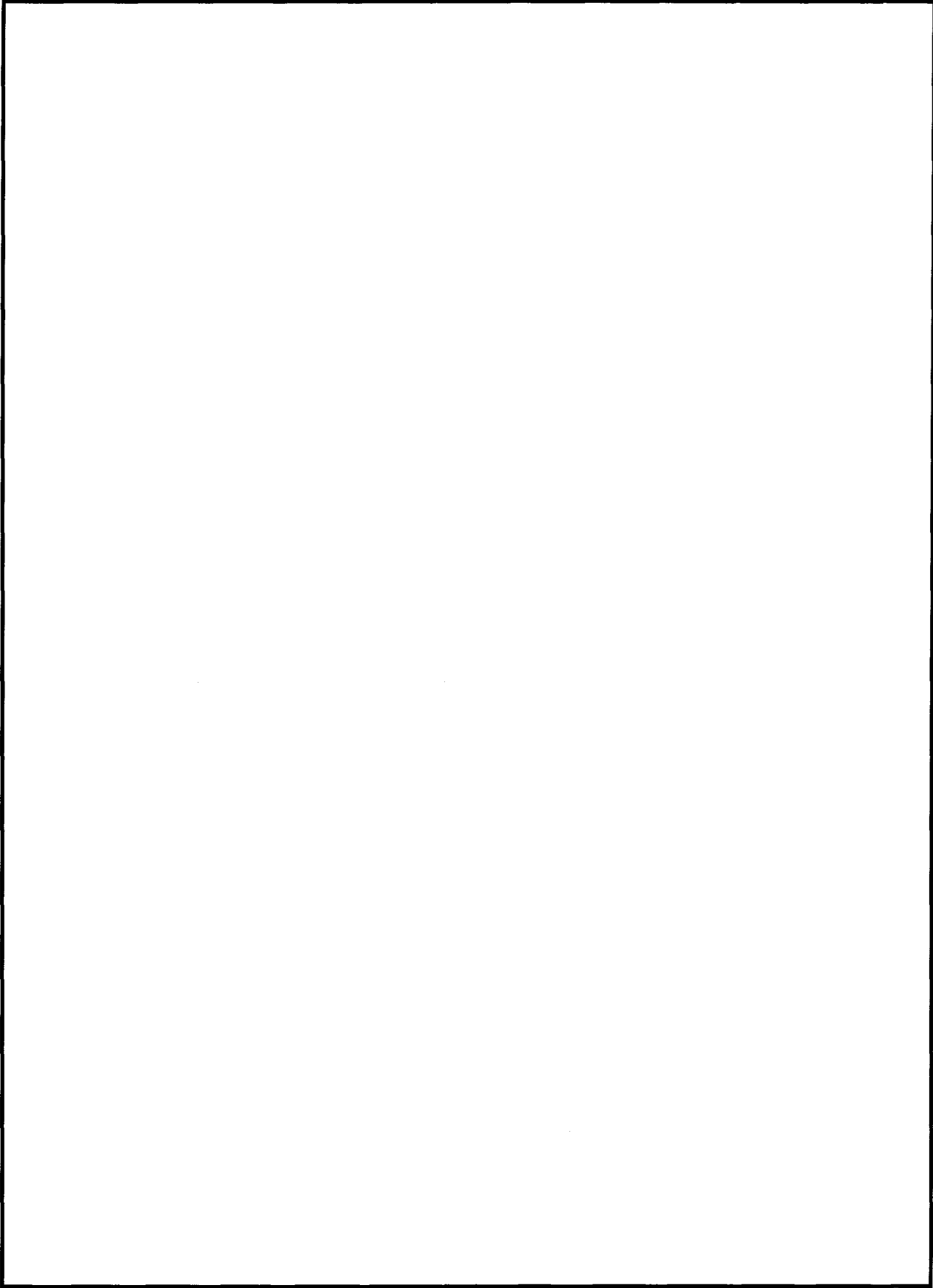
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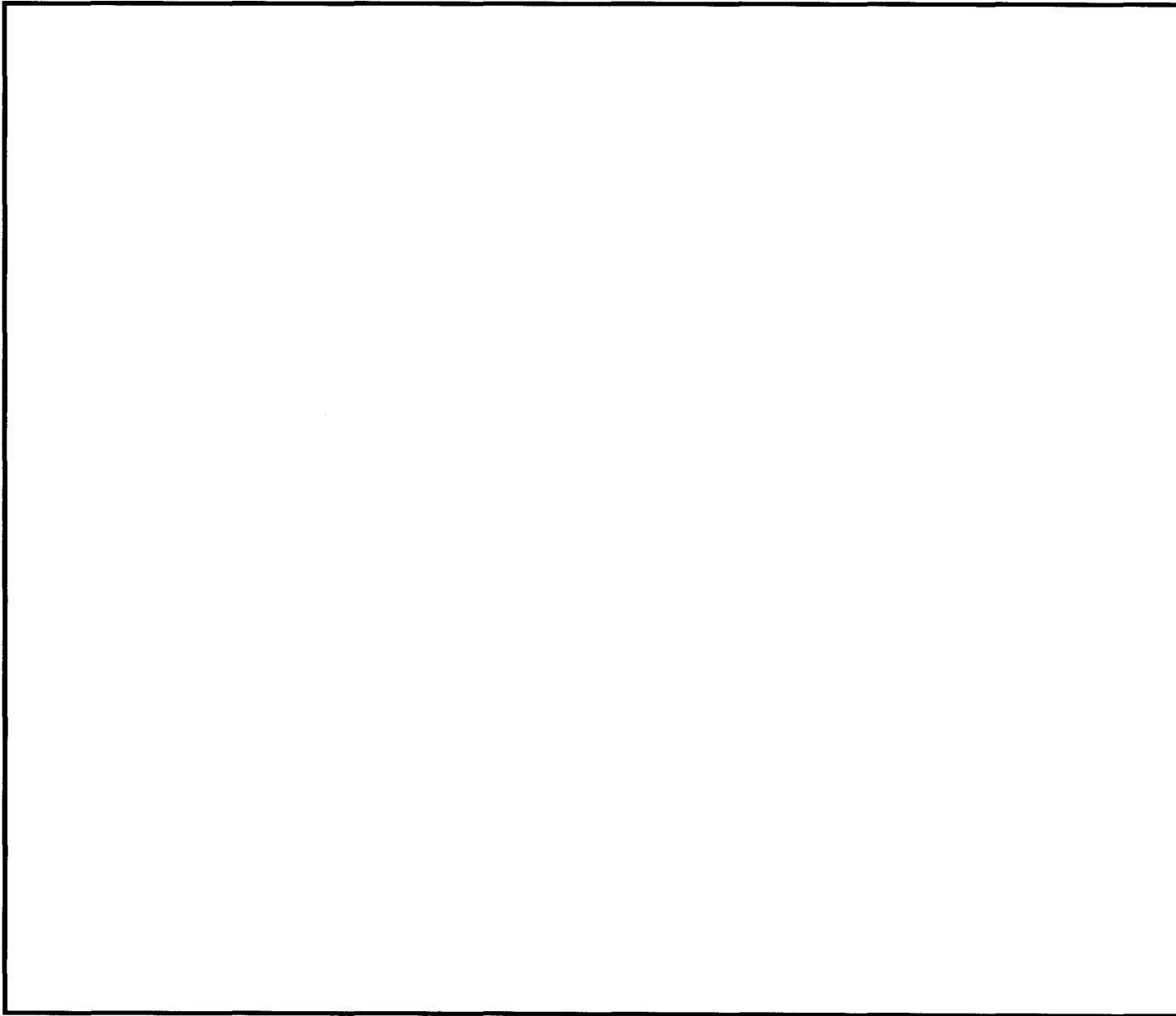
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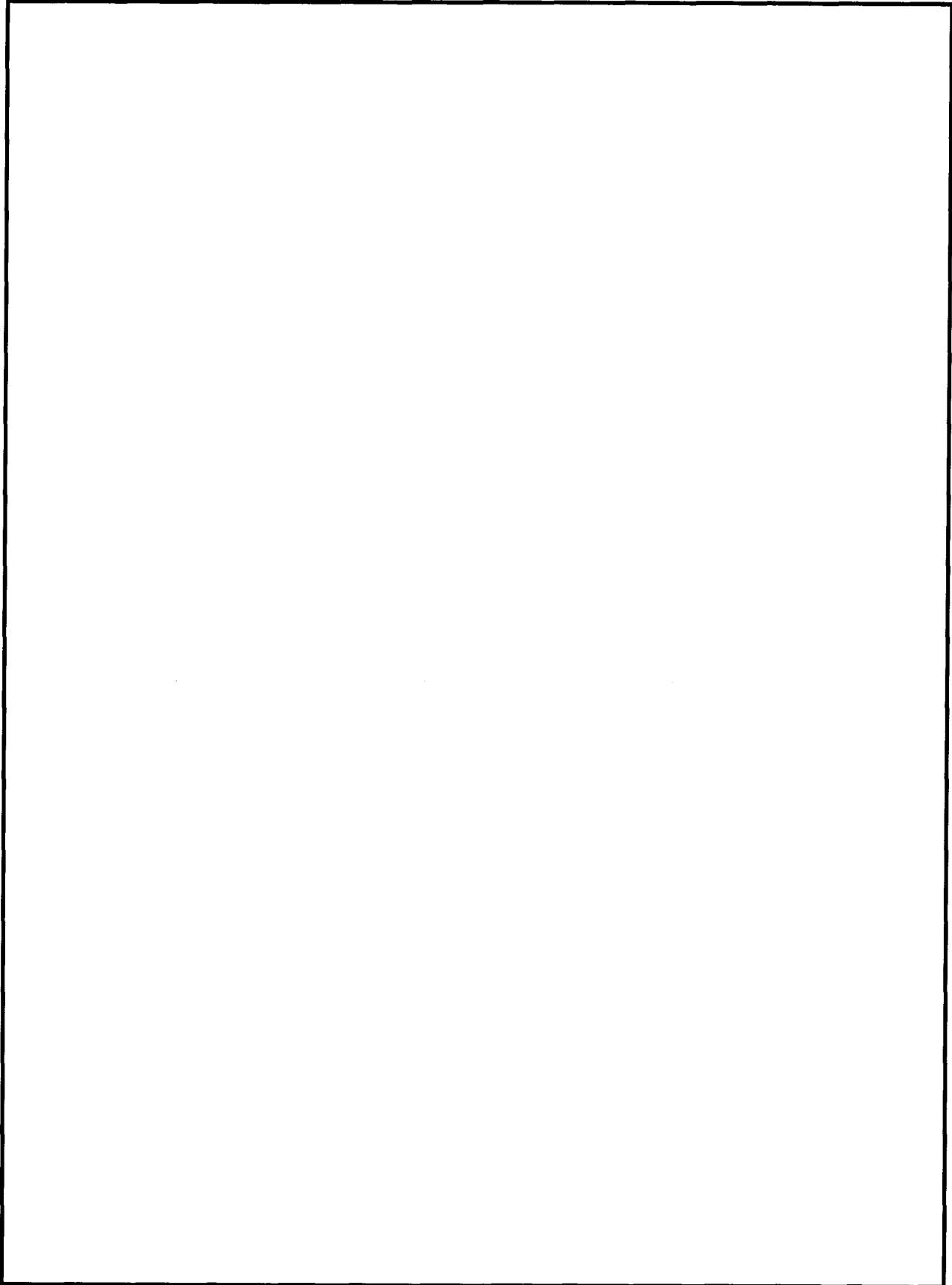
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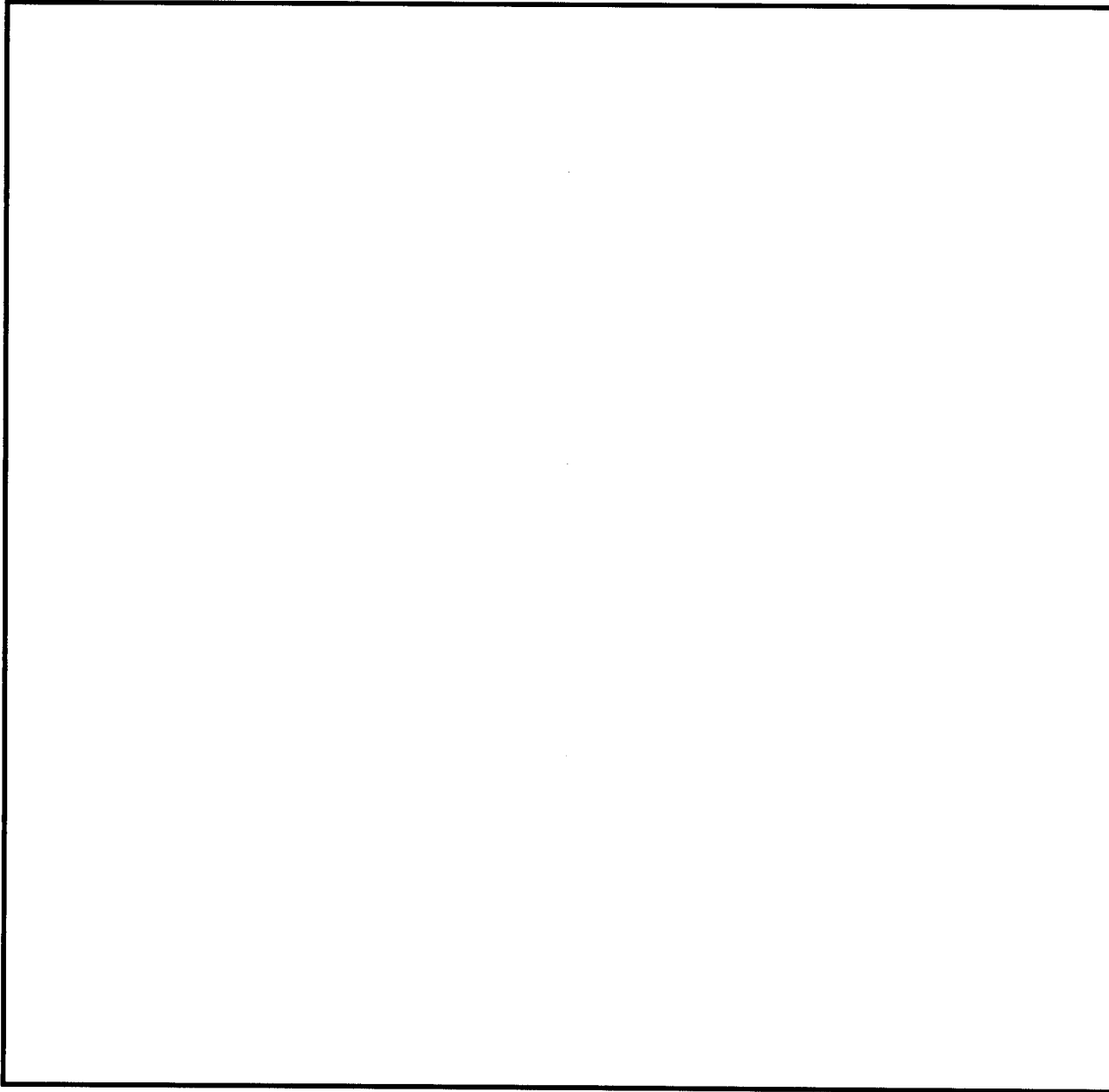
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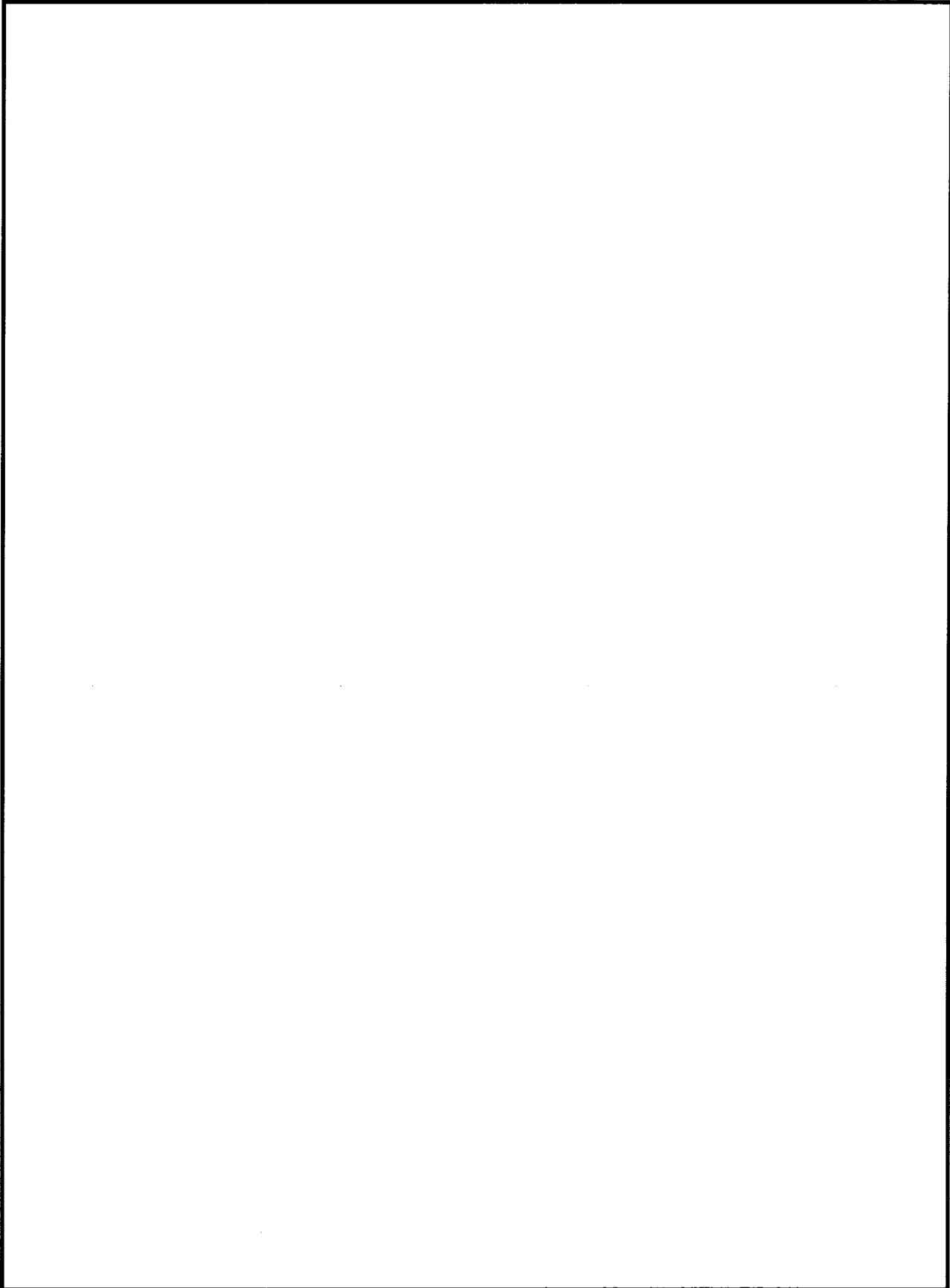
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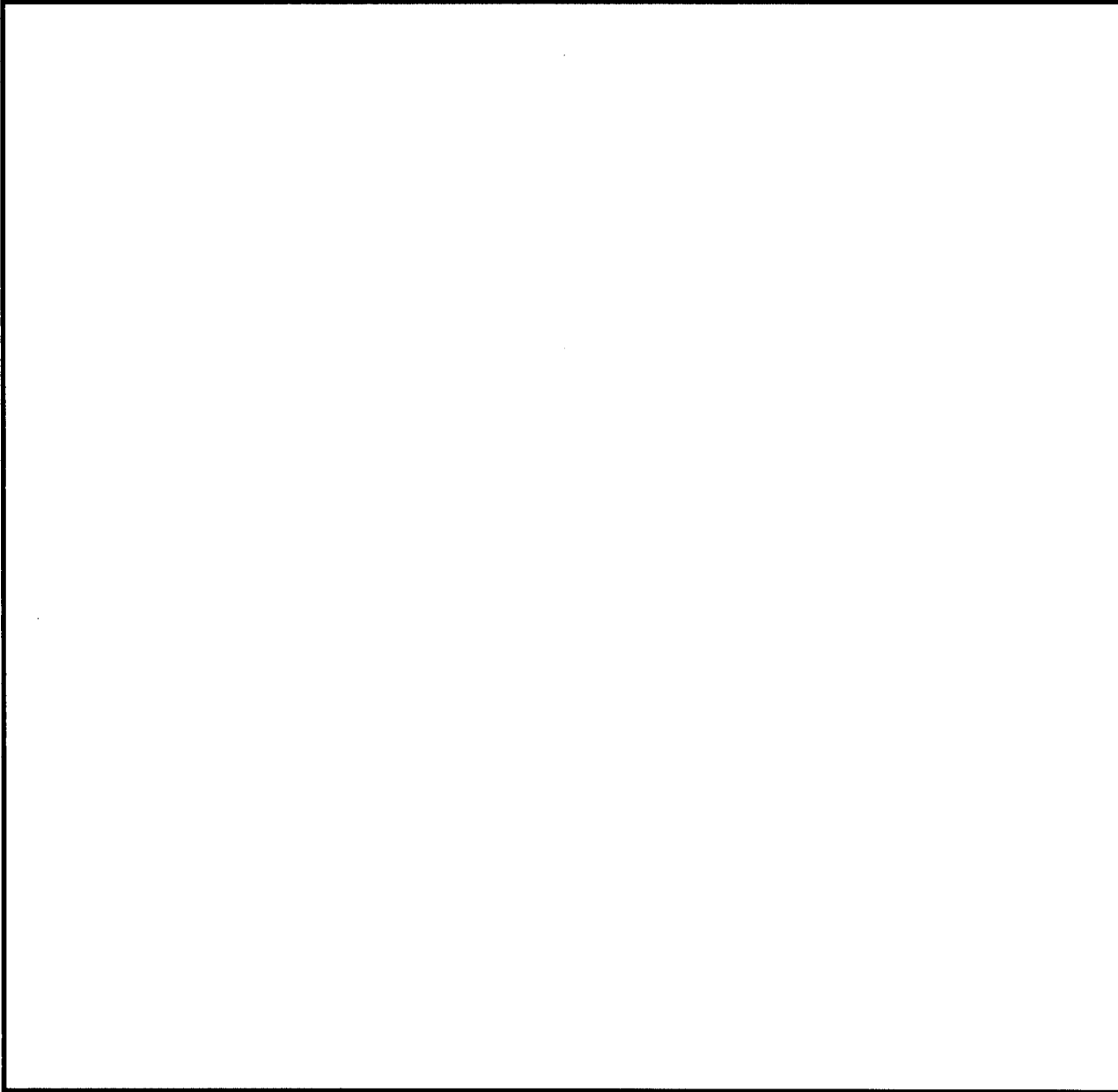
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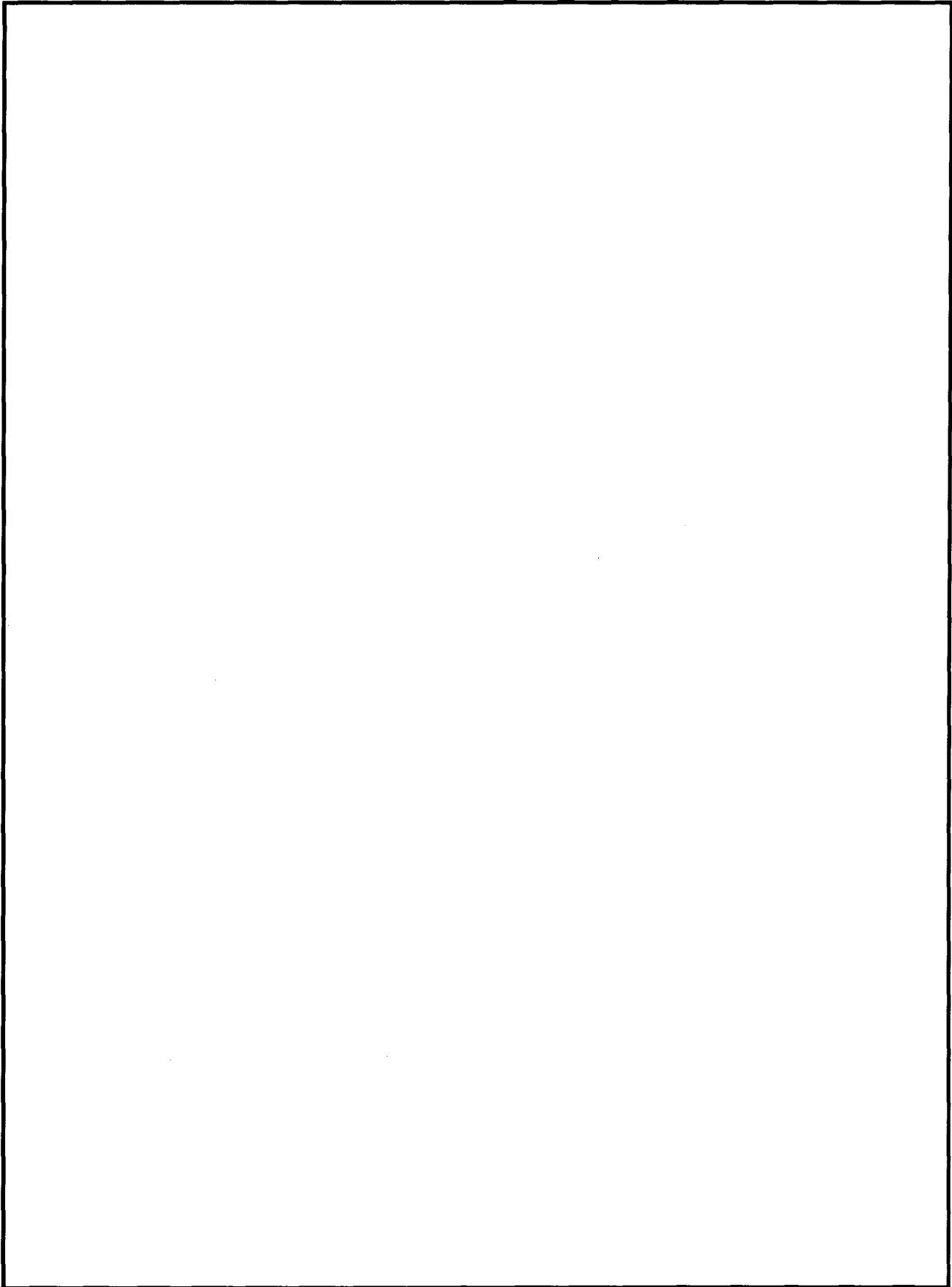
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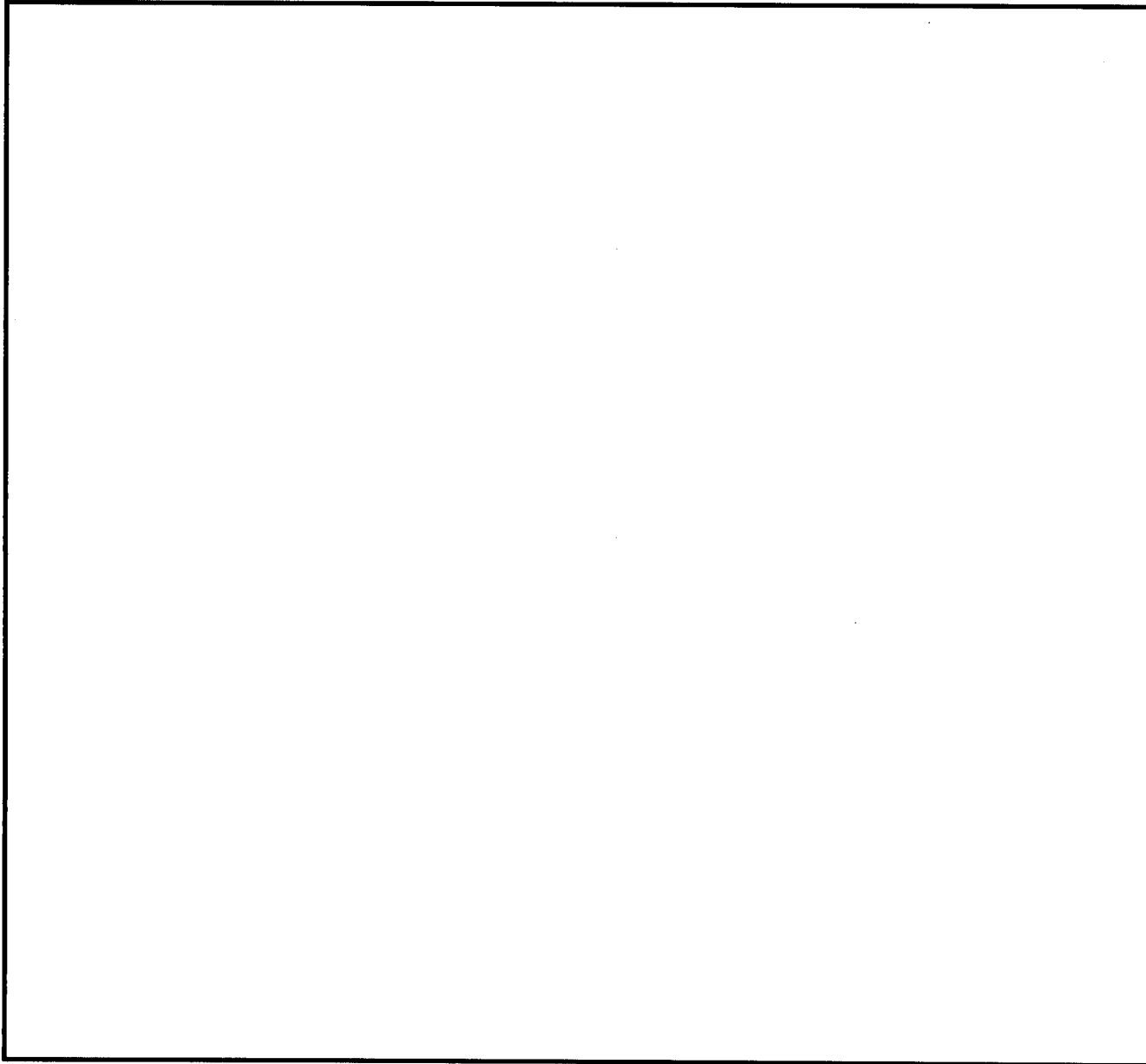
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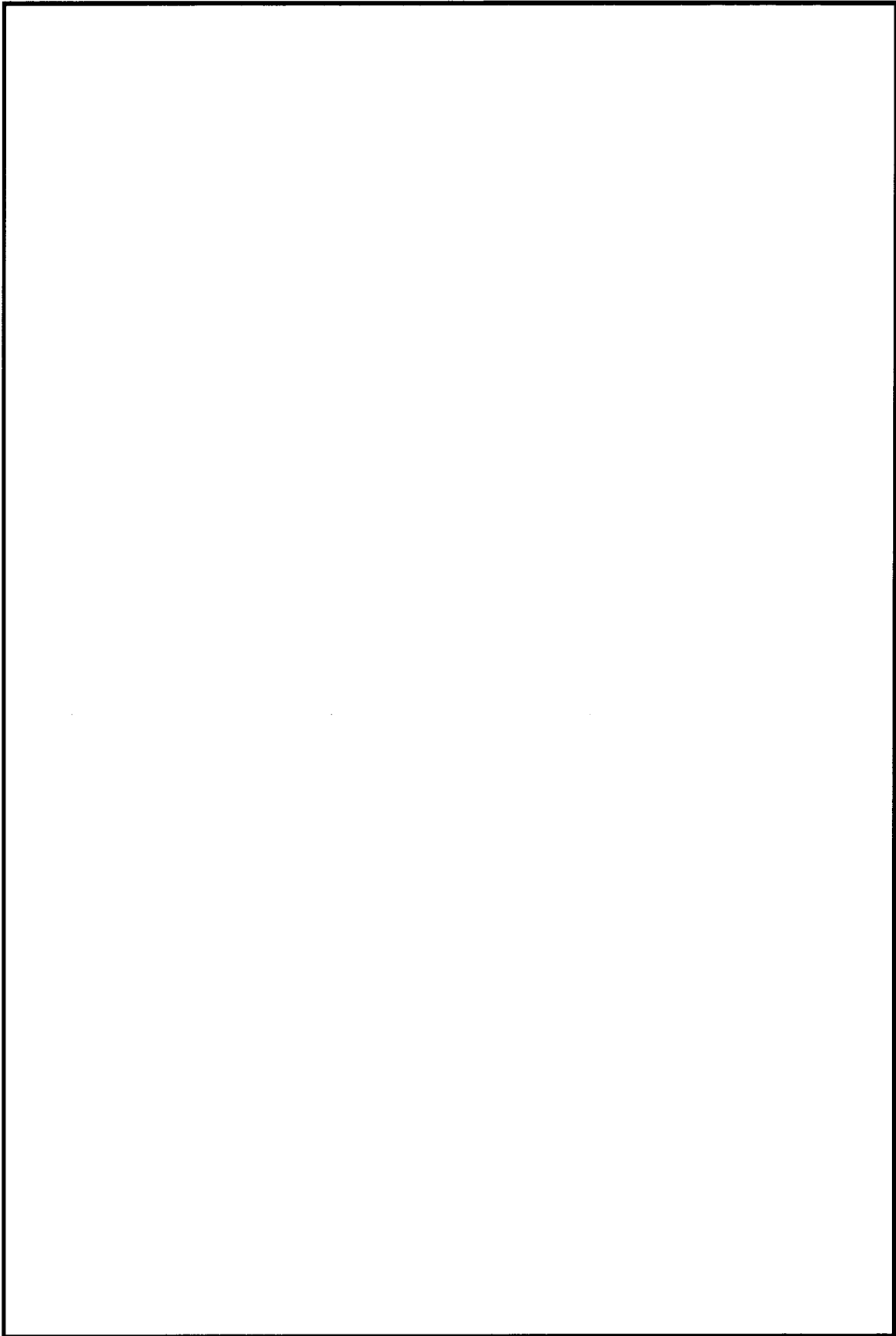
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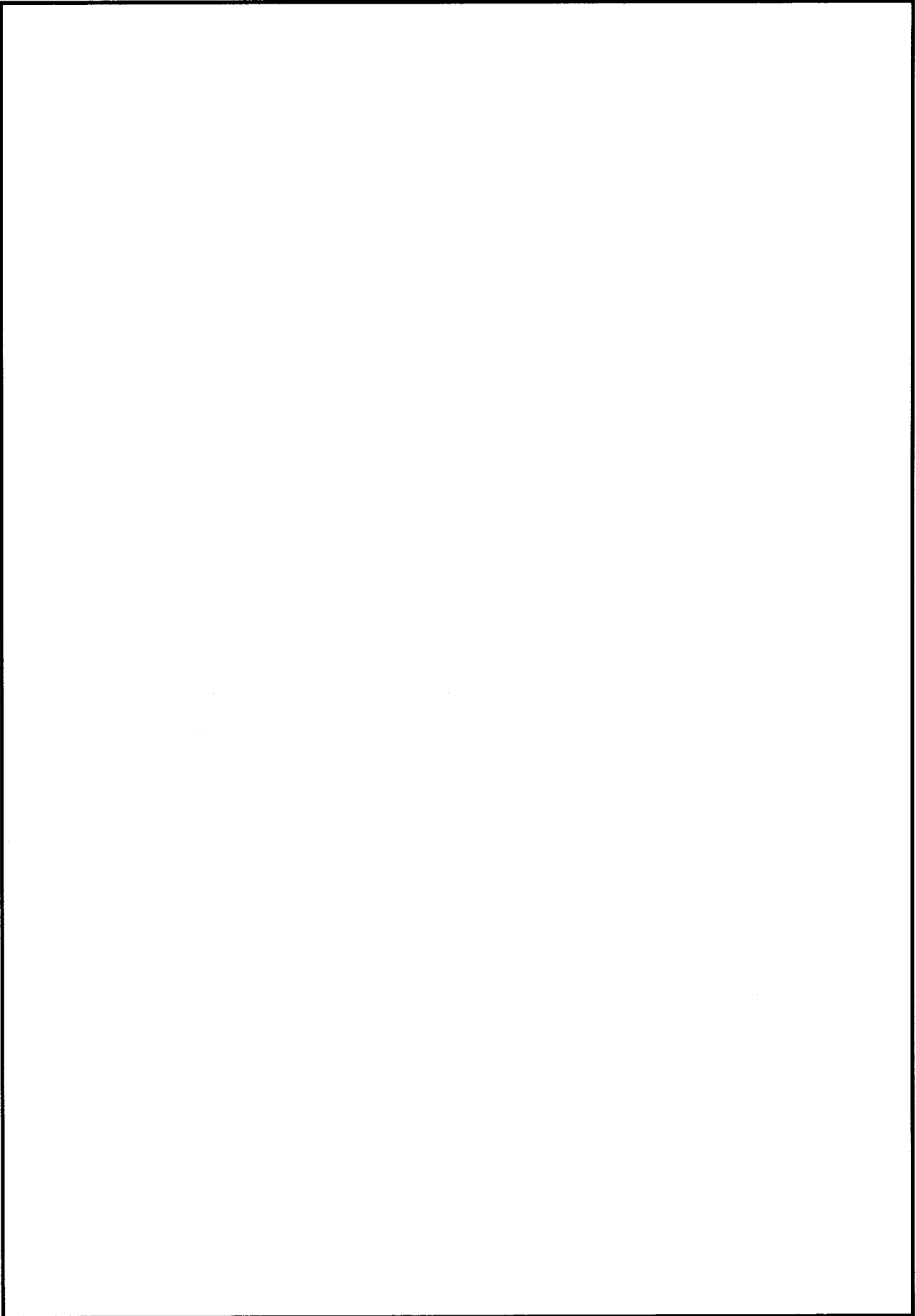


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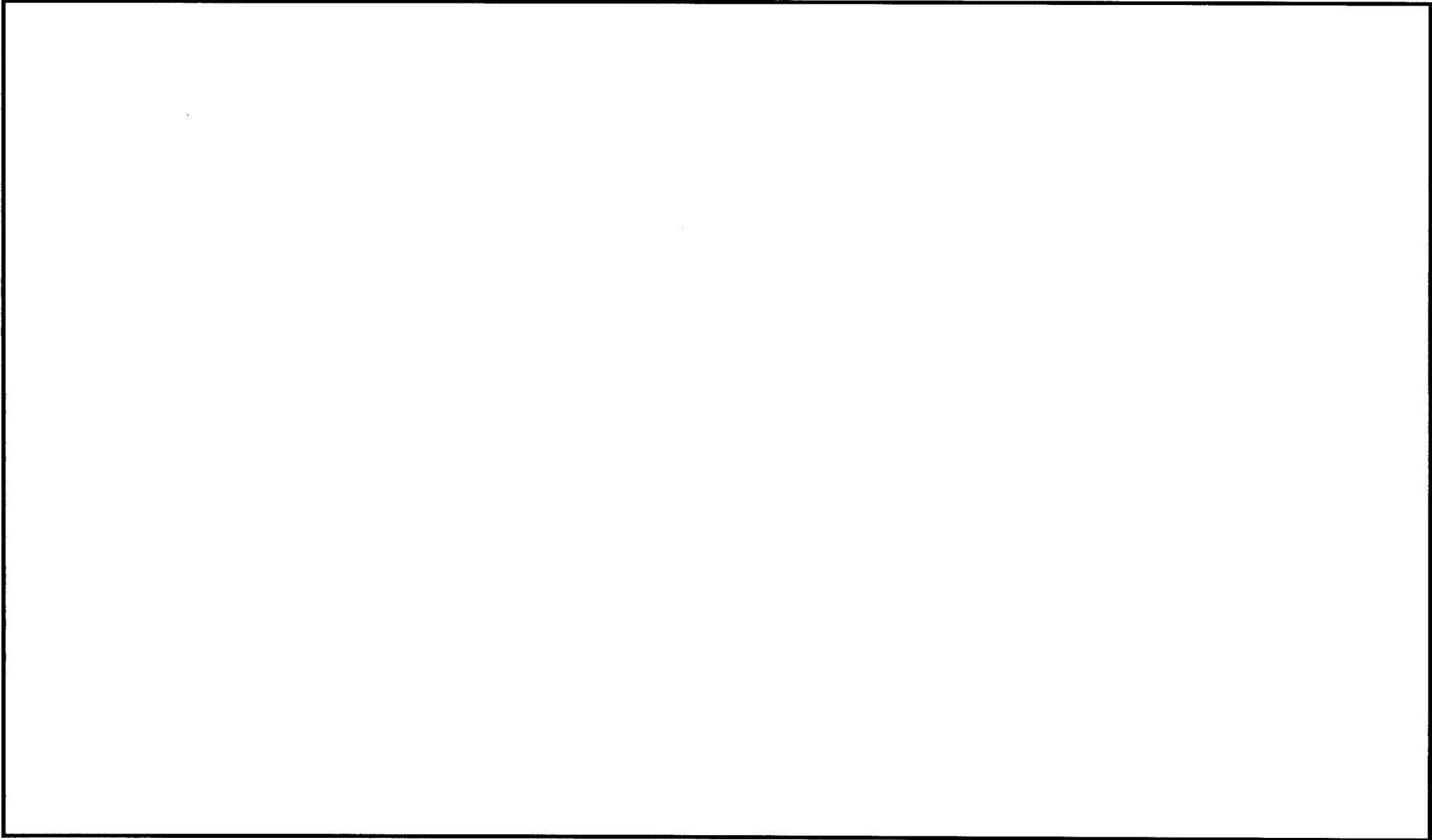
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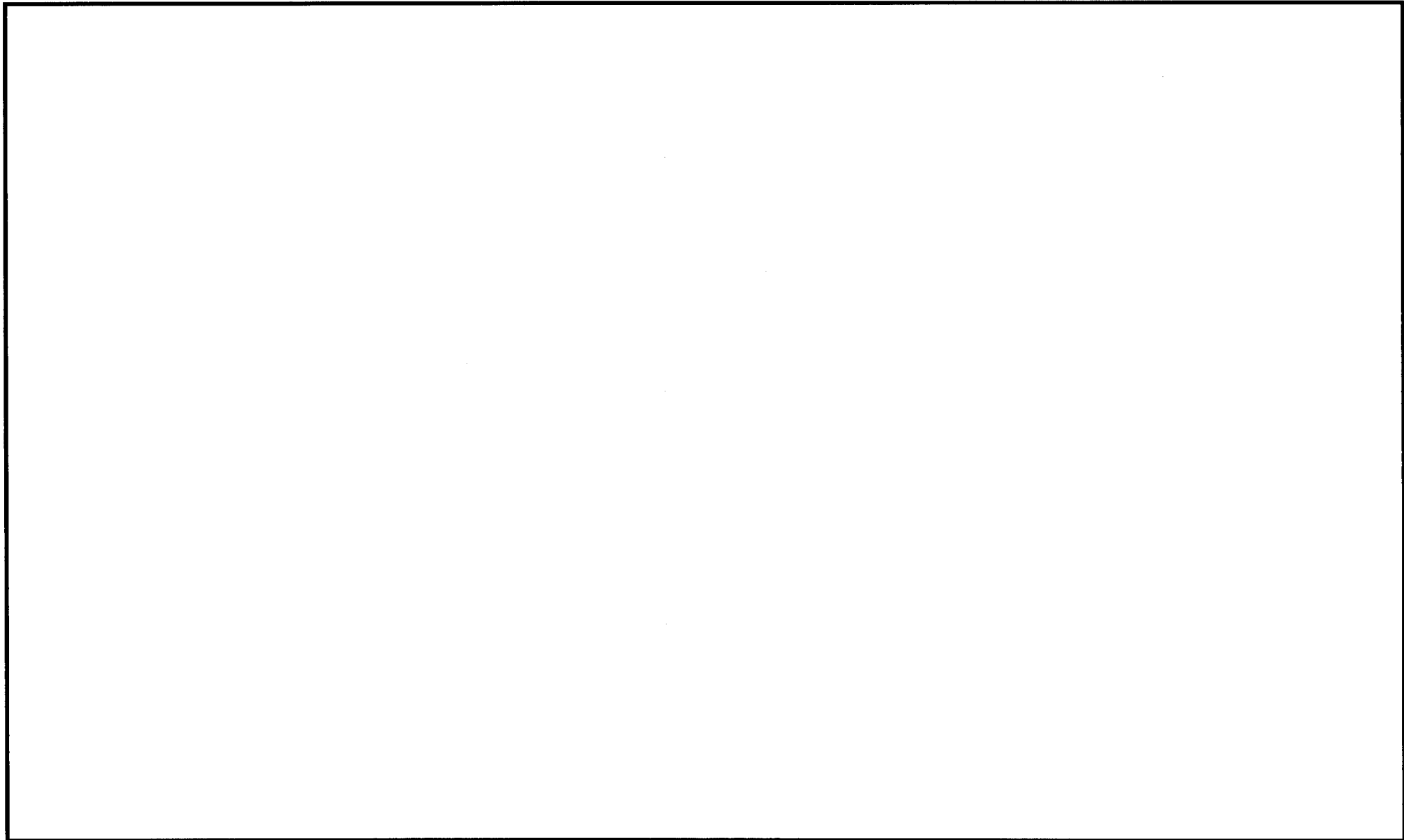


[4] Patterns water sucking into gearbox & Measures to prevent sucking

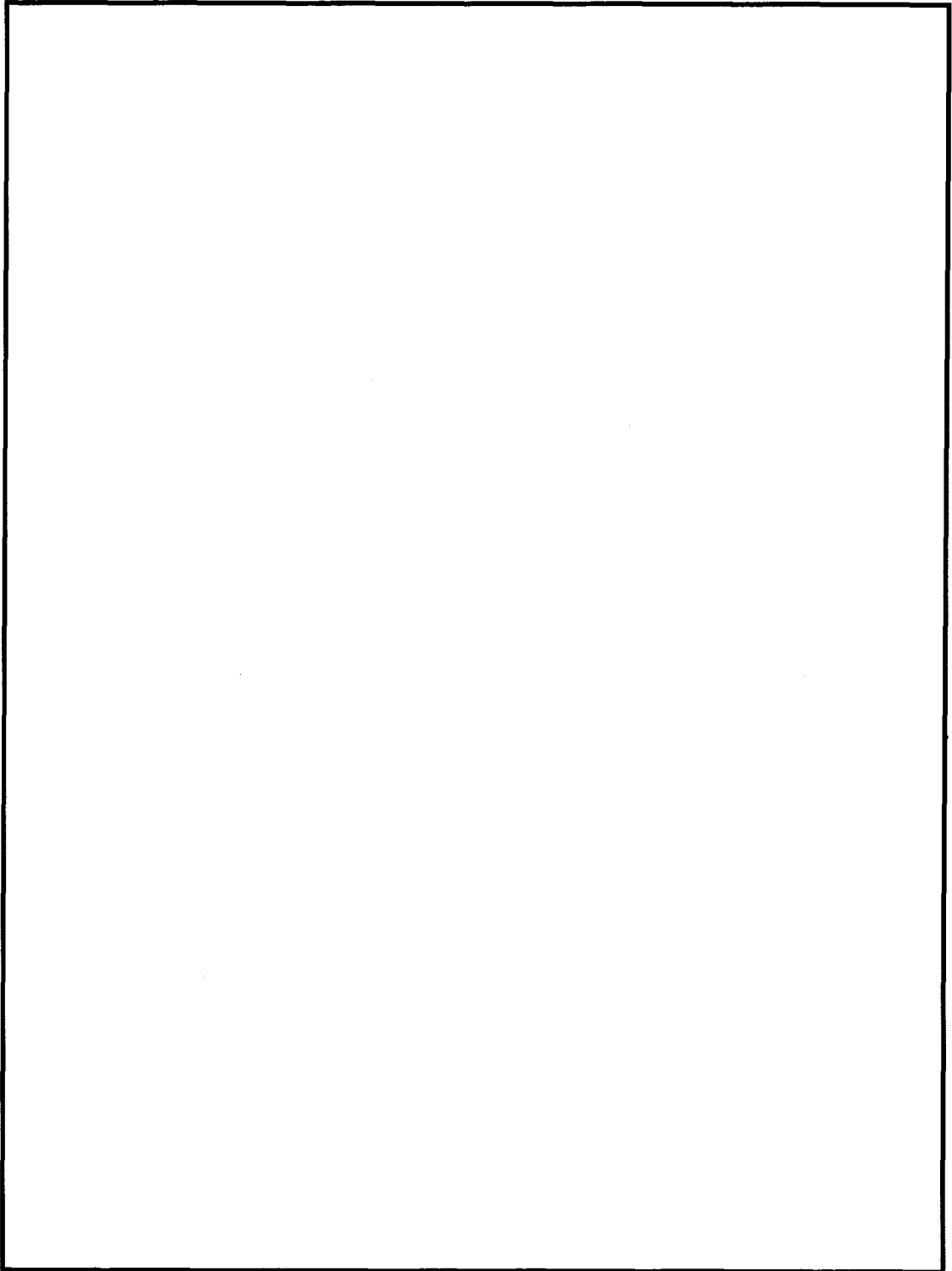
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[5] The matters of concern for bearing screening



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Attachment 6-5

Investigation Reports of Returned Part

