

CONFIDENTIAL BUSINESS INFORMATION

Summary of Actions

a. Action title	b. Start date	c. End date	d. Brief summary of the subject and objective	e. Engineering group	f. Summary of findings	Title of Attachment

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Noise evaluation of wheel speed sensor on test bench (sample picture)

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Attachment-Response 8-1

Noise evaluation of wheel speed sensor on test bench

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Noise evaluation of wheel speed sensor on test bench

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Summary of vehicle phenomenon caused by the miss calculation of steering angle

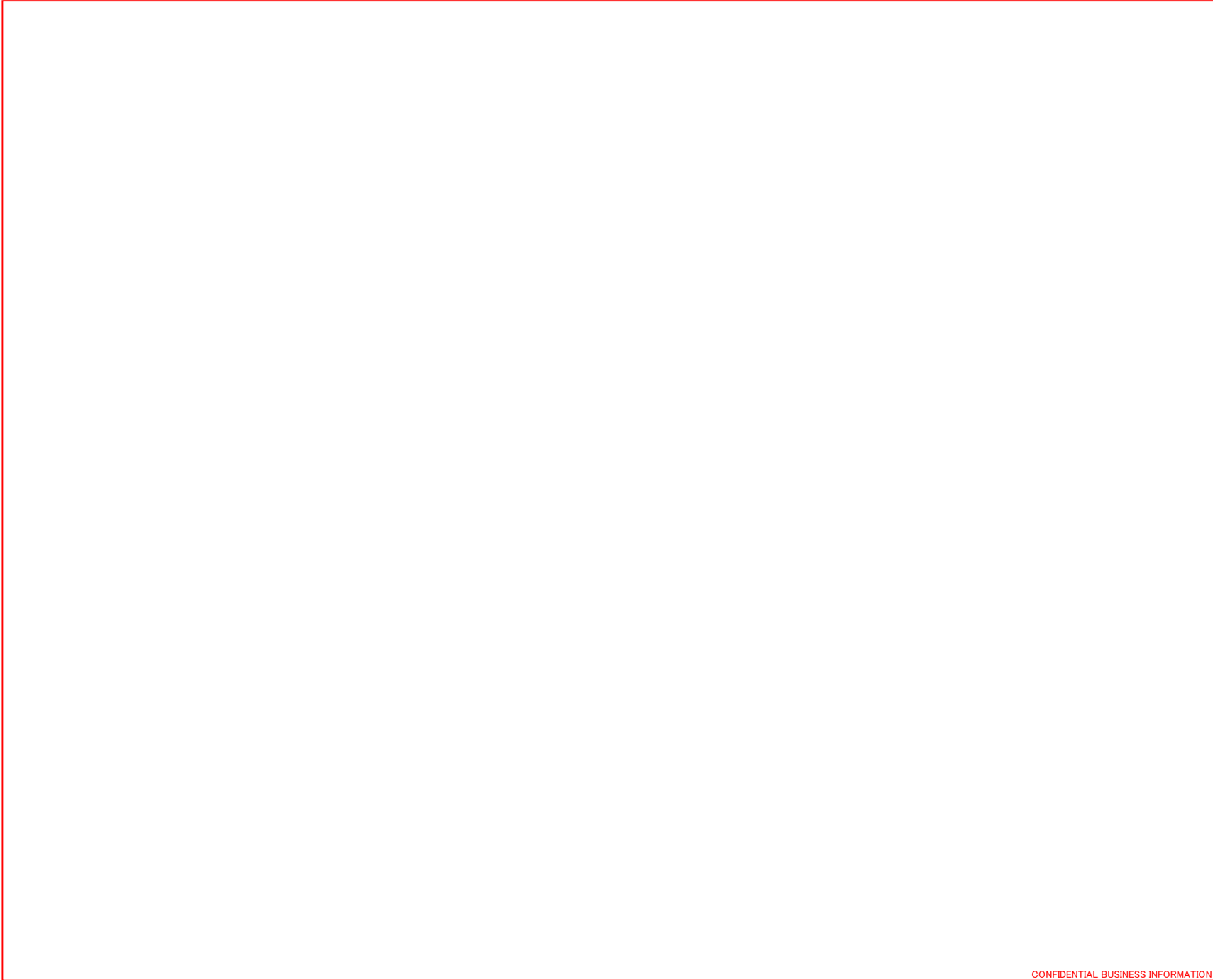
Assuming complete vehicle stop and startup

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Attachment-Response 8-2

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Case study when the steering offset failure occurs: Straight ahead



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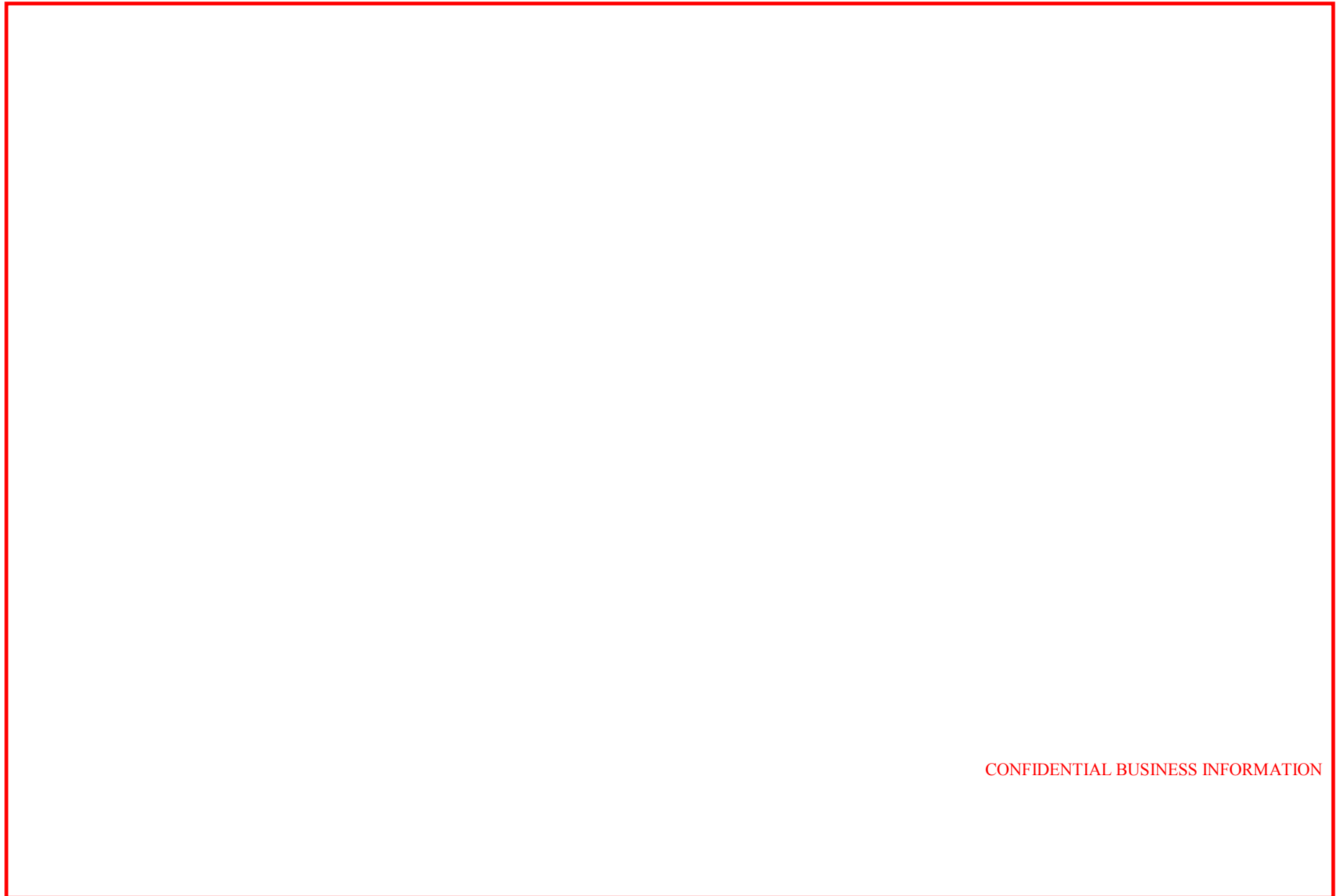
Duplication test by rusted parts assembled on the vehicle

Attachment-Response 8-3-1

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Sample pictures of duplication test by rusted parts assembled on the vehicle

Attachment-Response 8-3-2



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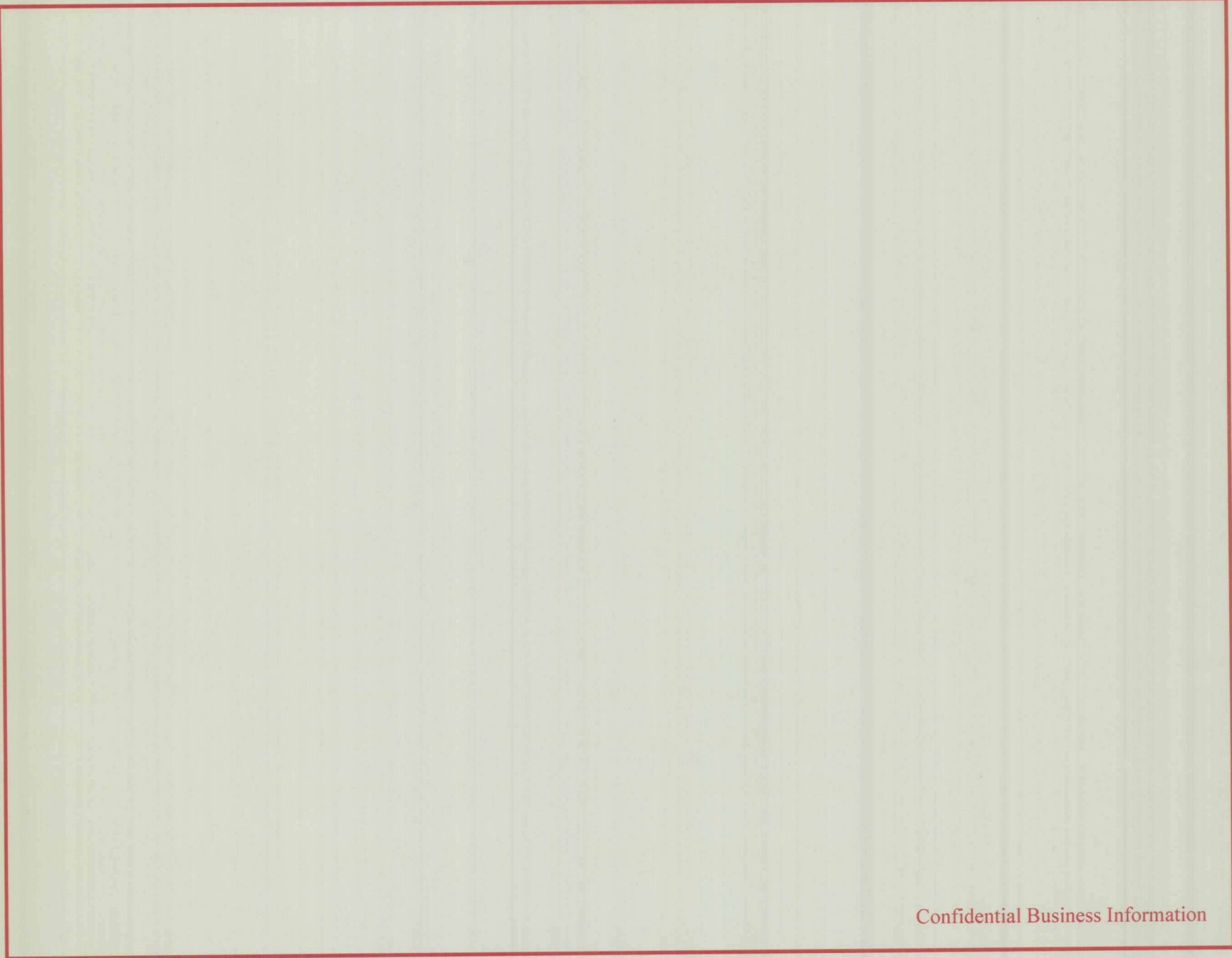
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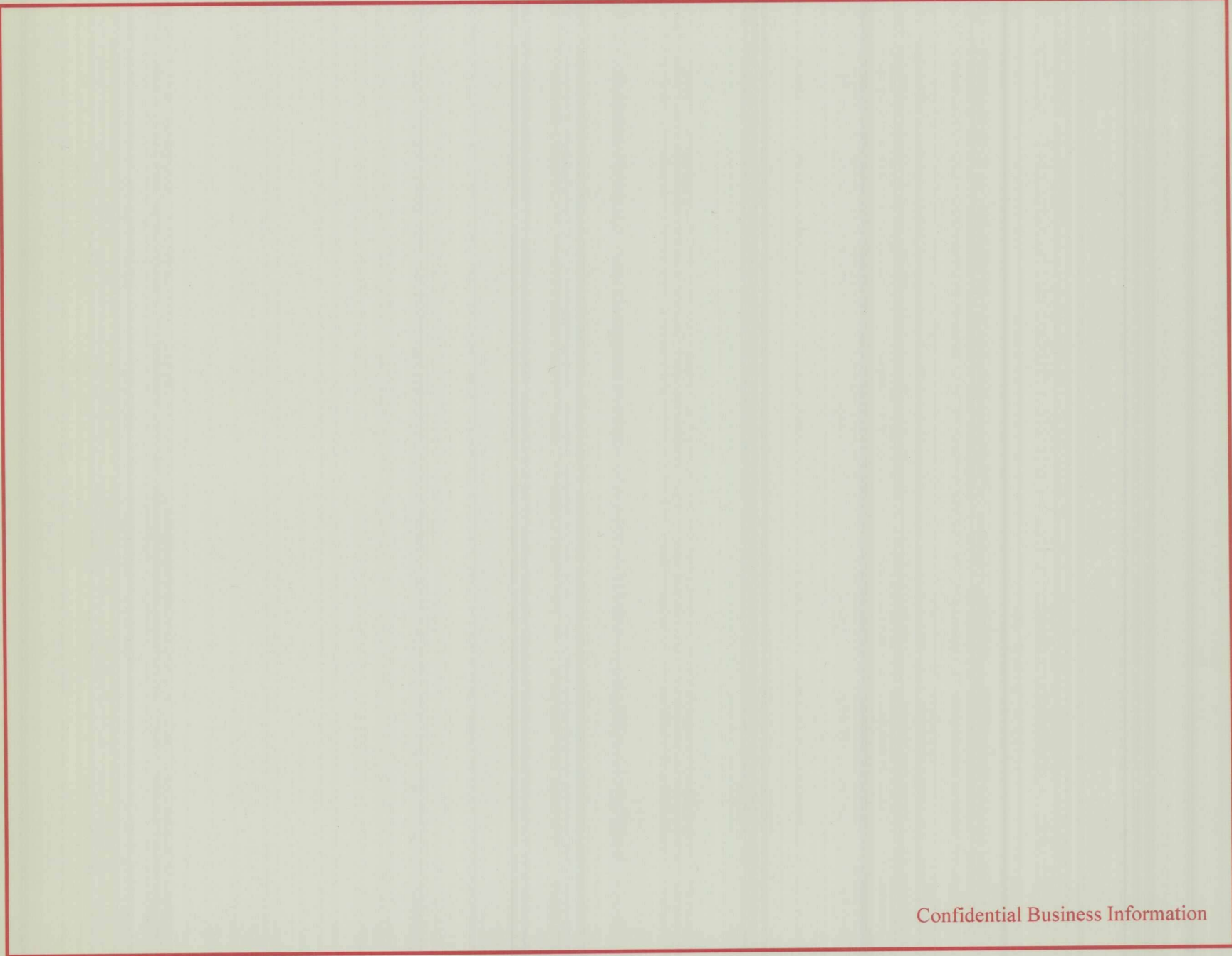
Noise bench test summary

Attachment-Response 8-4

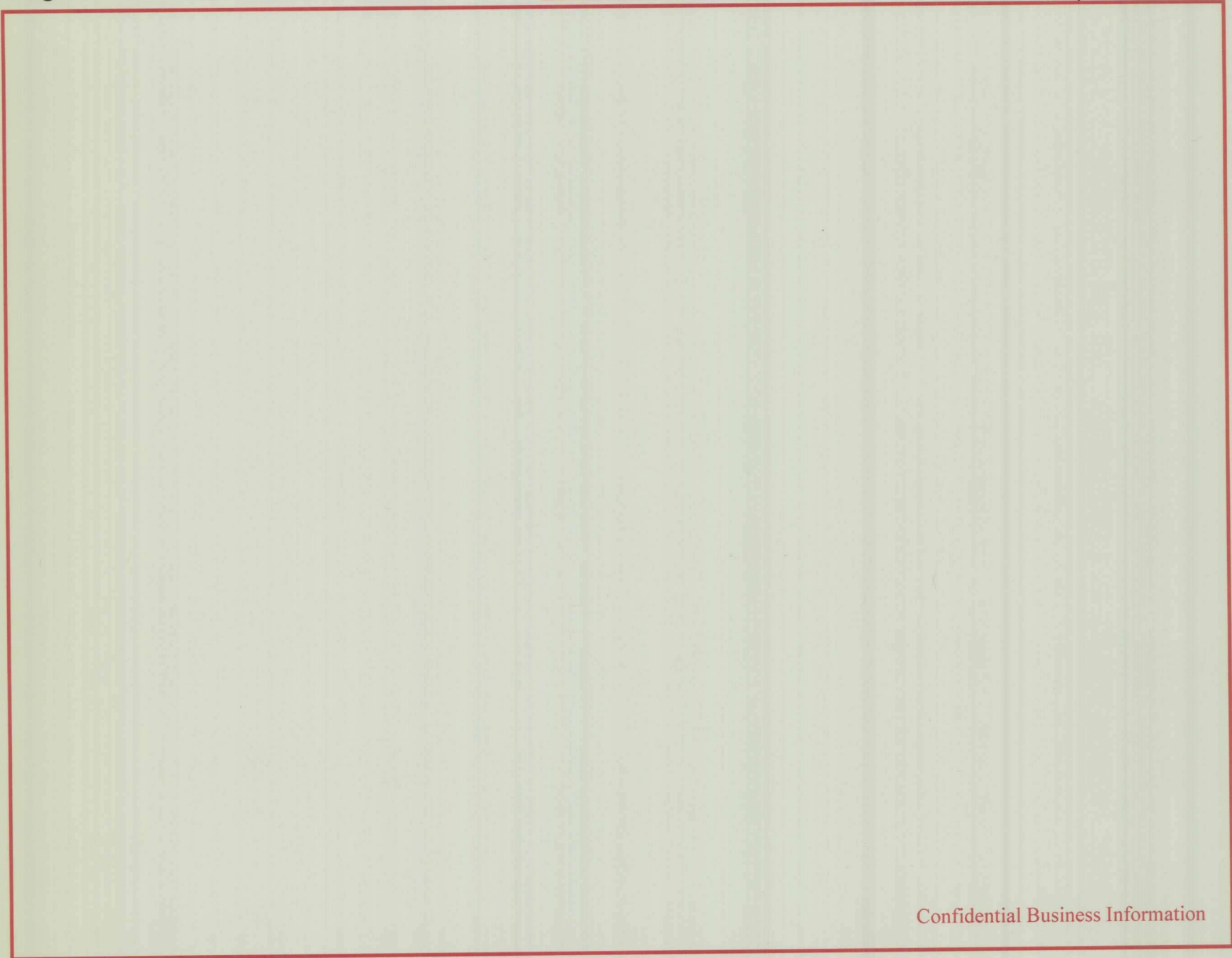
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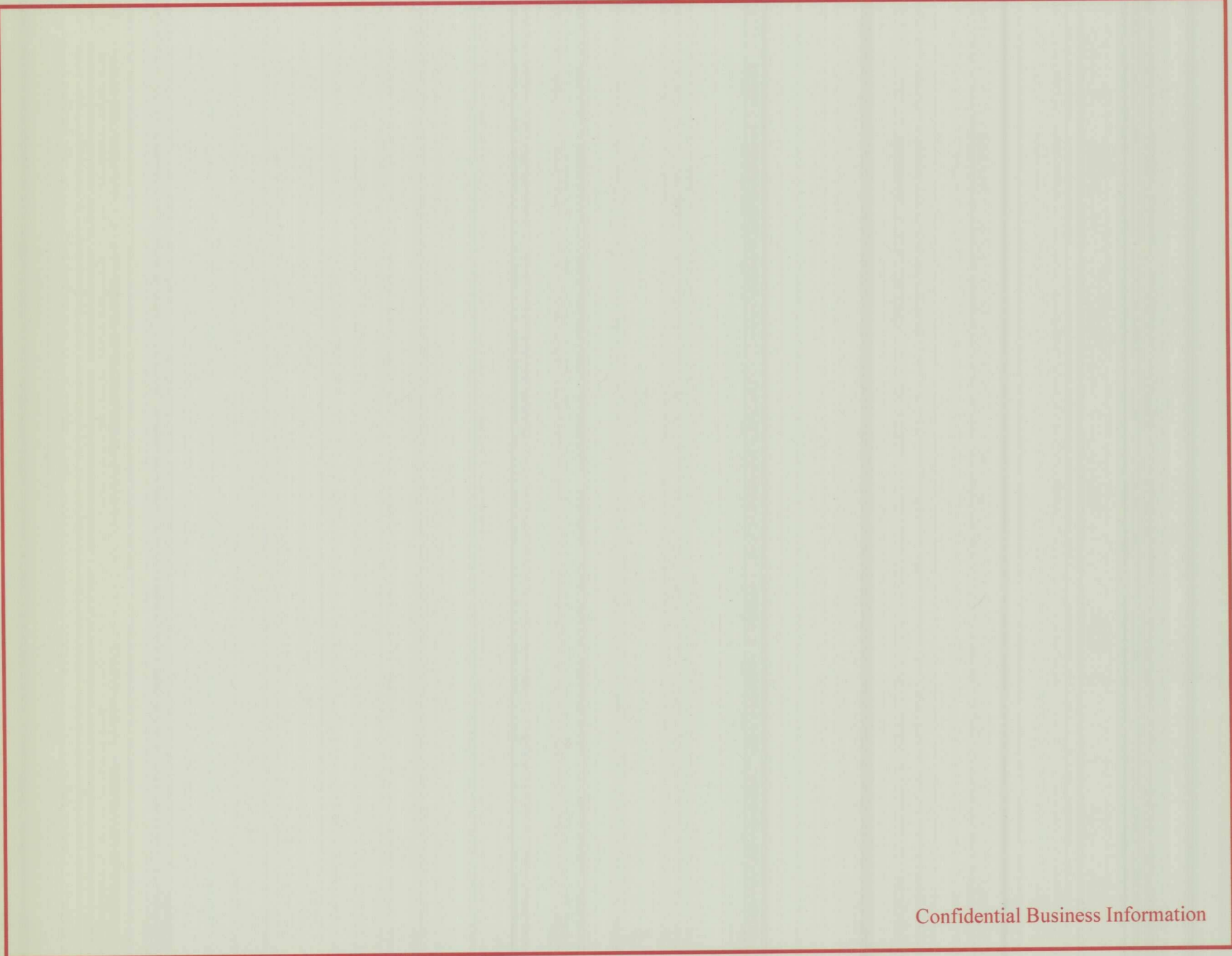








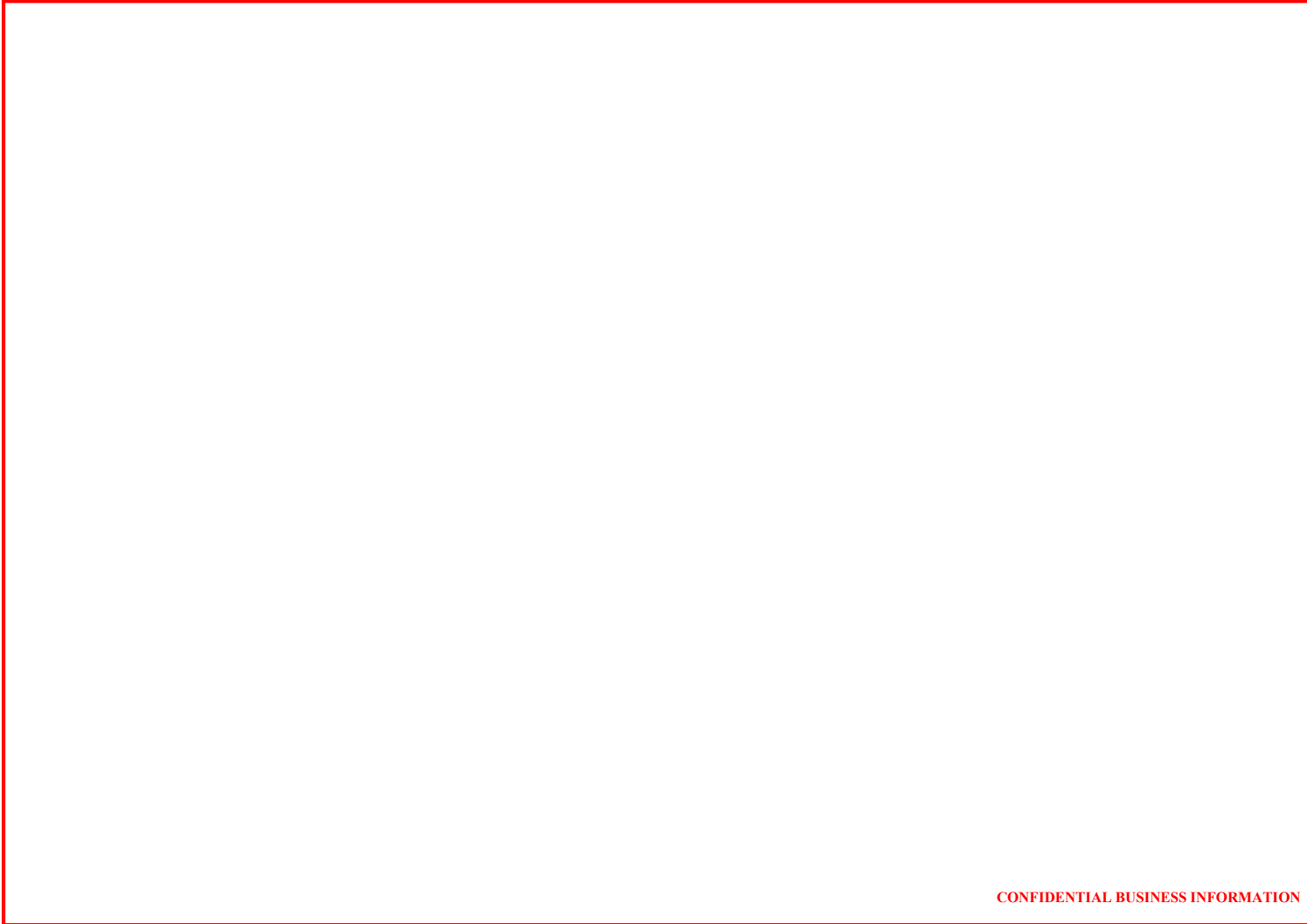




Test data result for the vehicle speed sensor signal of recovery vehicle(2003MY)

Attachment-Response 8-6

①Straight driving 0.1G Accel :0-5kph



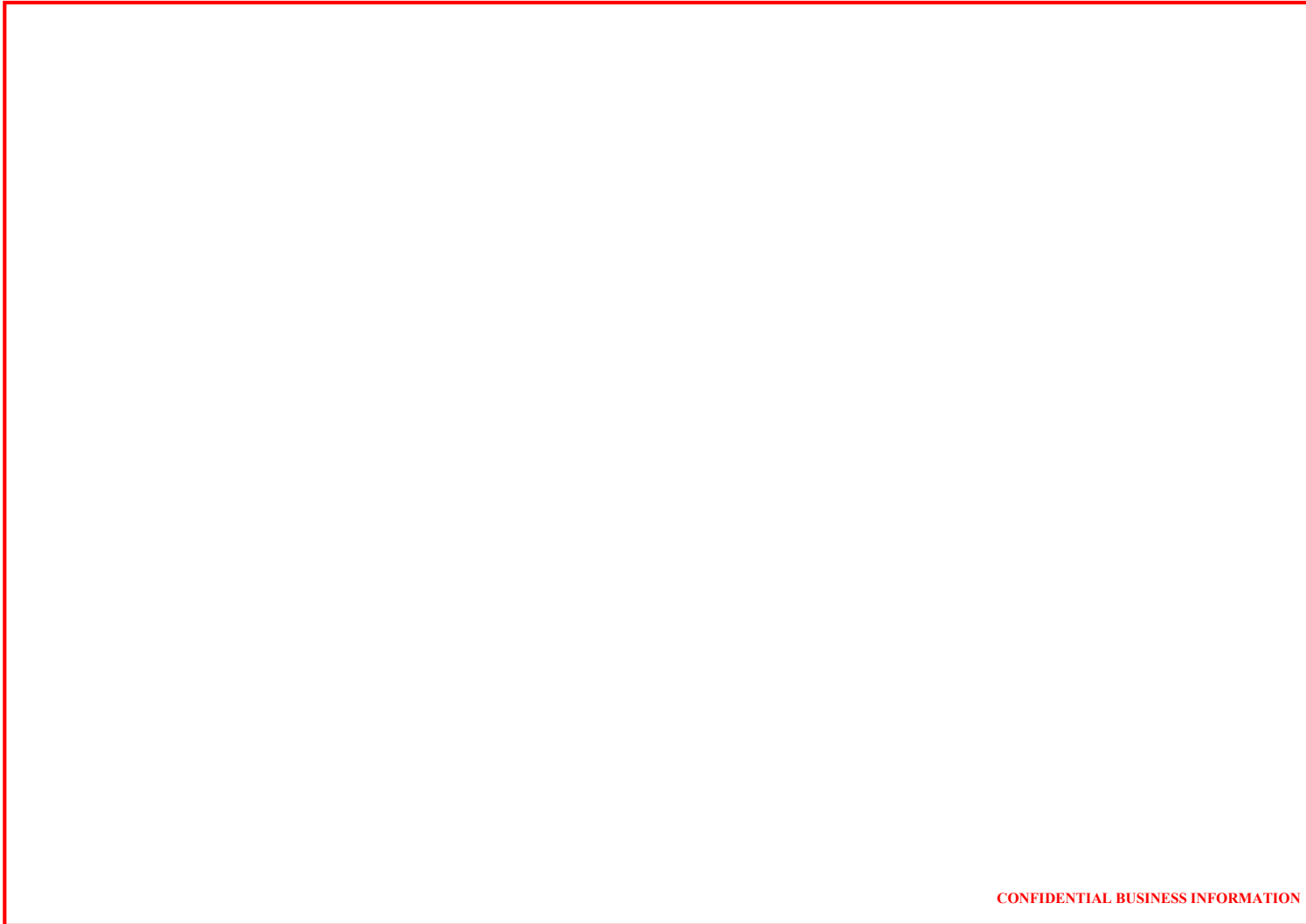
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② Straight driving 0.2G Accel: 0-5kph



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③ Straight driving 0.2G Accel: 0-5kph



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①: 5-10kph



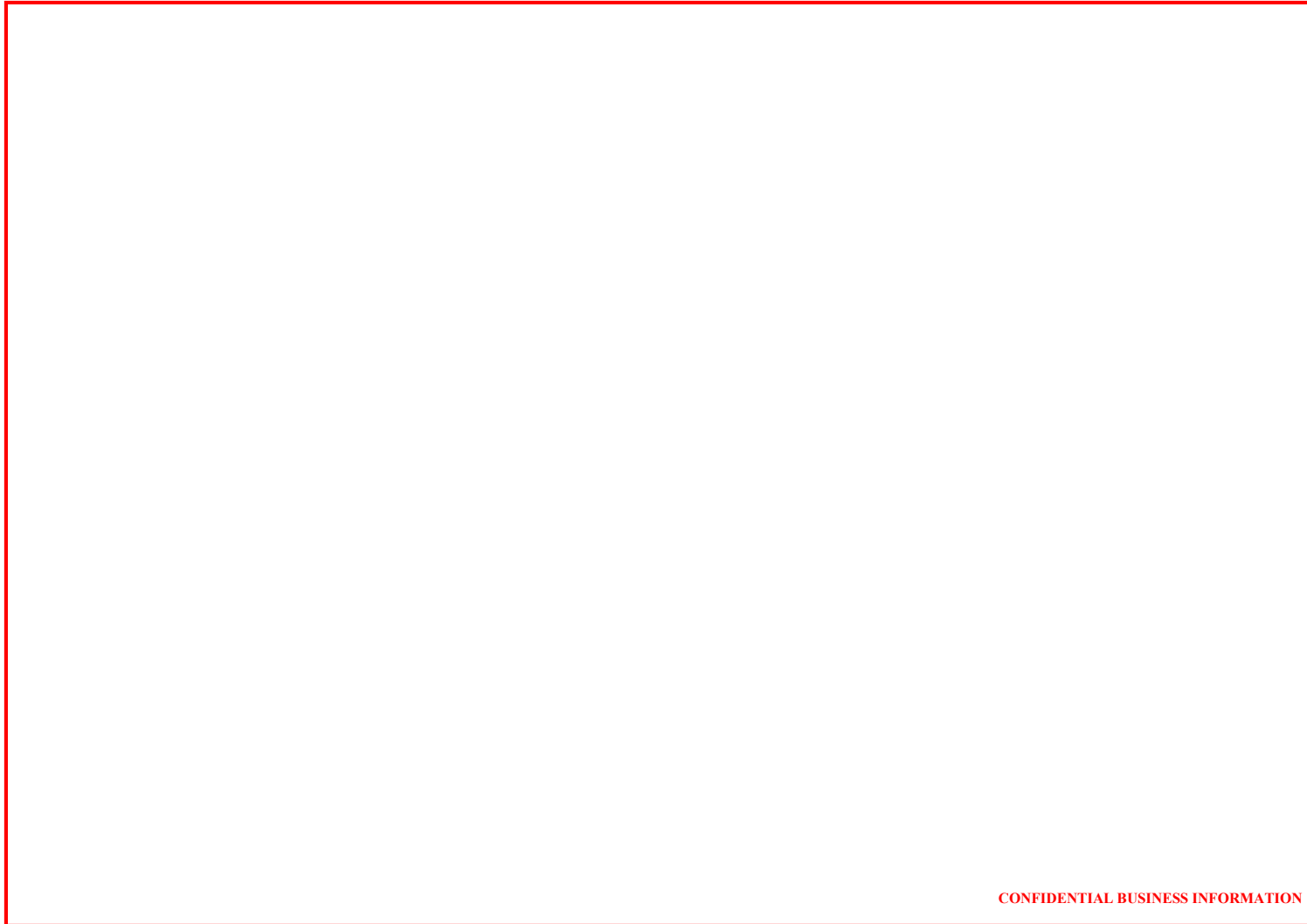
CONFIDENTIAL BUSINESS INFORMATION

②: 5-10kph



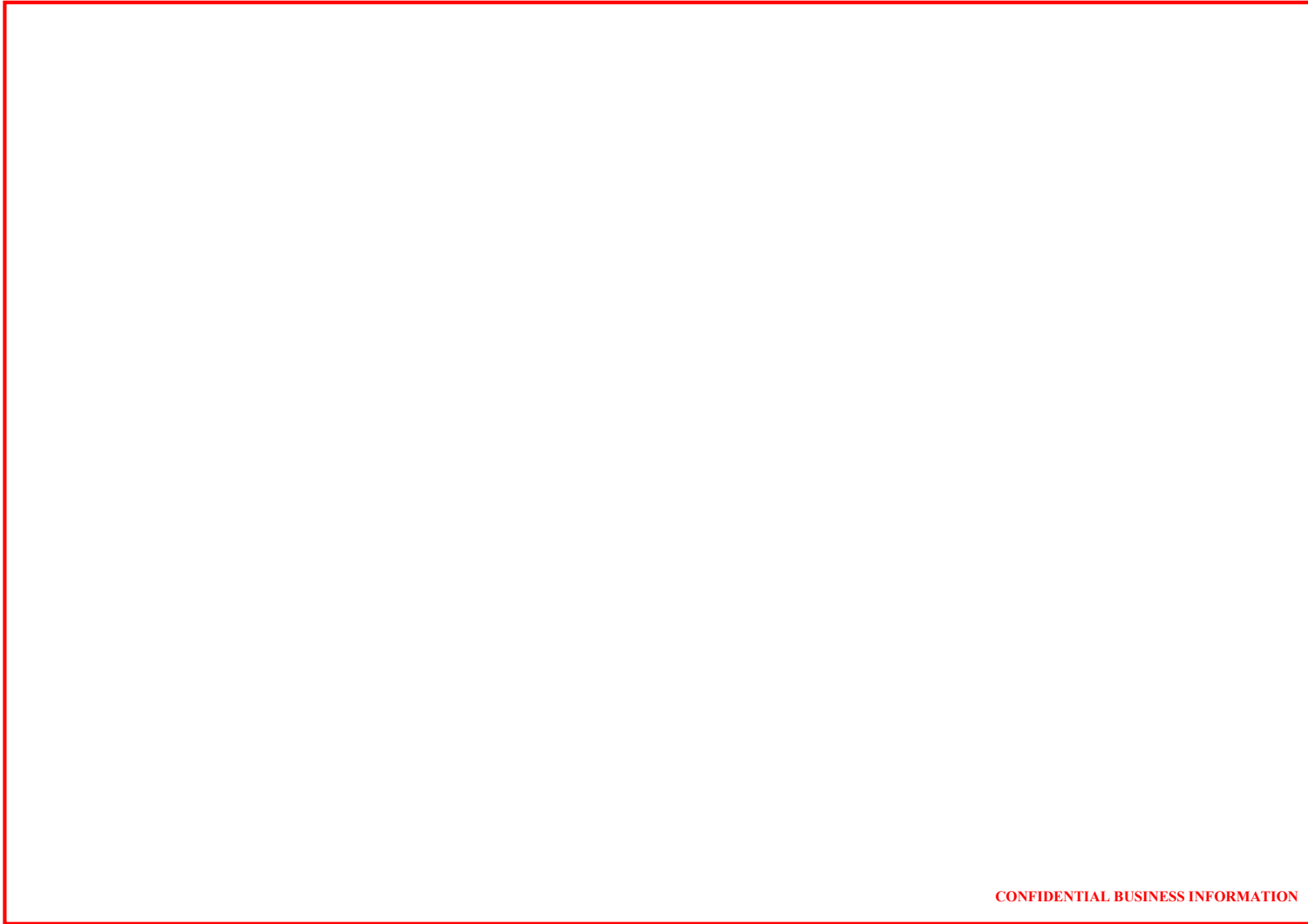
CONFIDENTIAL BUSINESS INFORMATION

③: 5-10kph



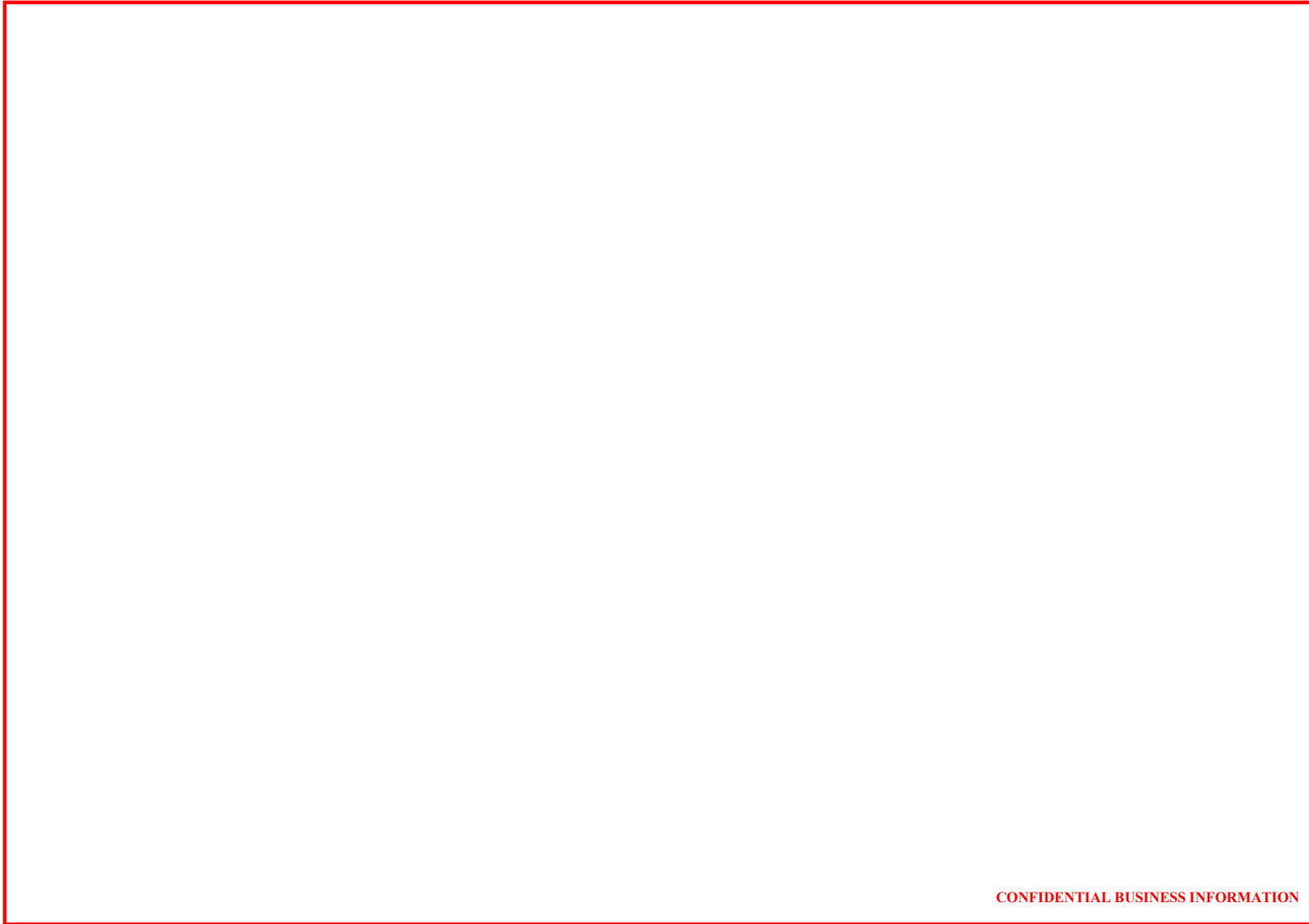
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①: 10-15kph



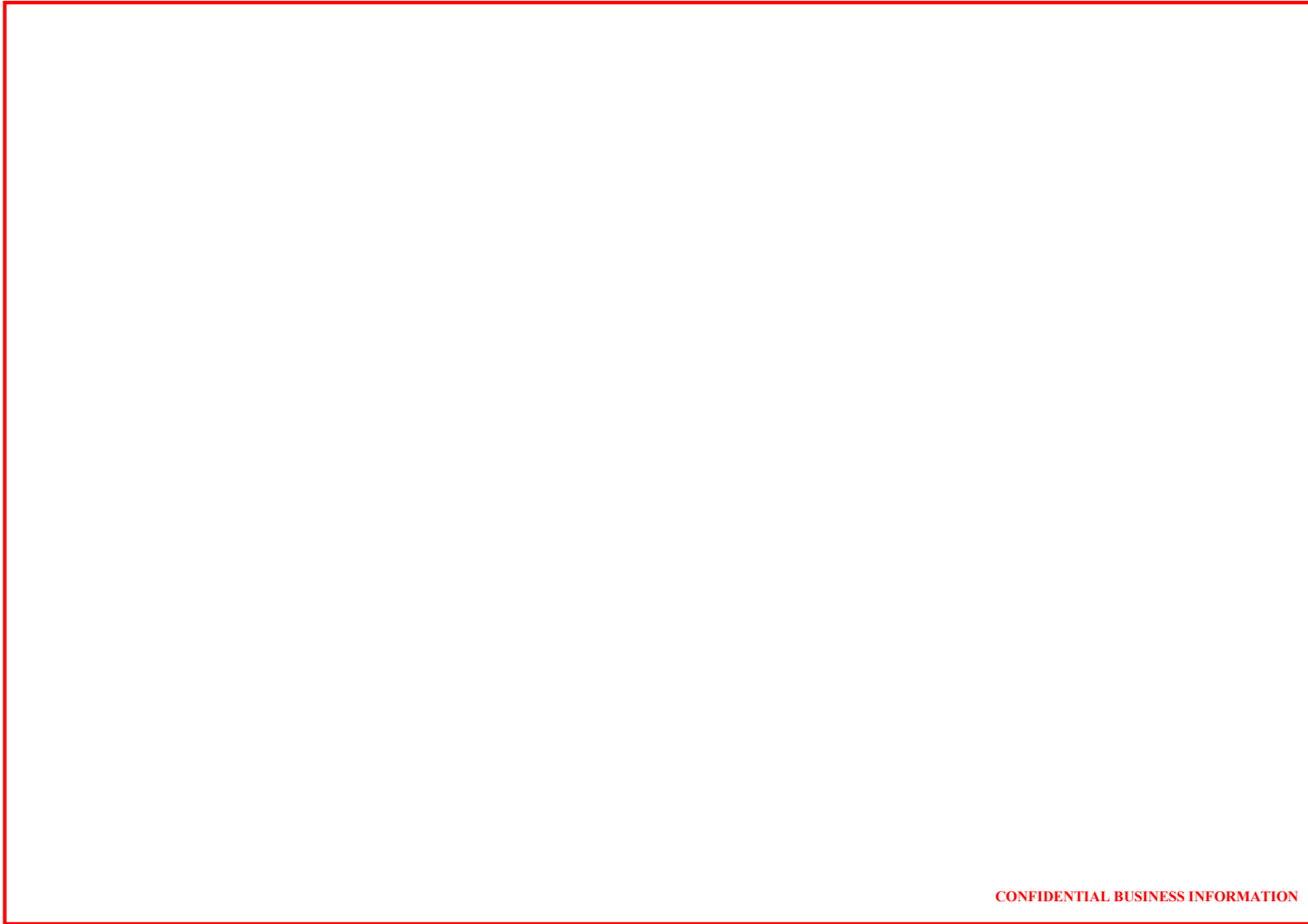
CONFIDENTIAL BUSINESS INFORMATION

②: 10-15kph



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③: 10-15kph

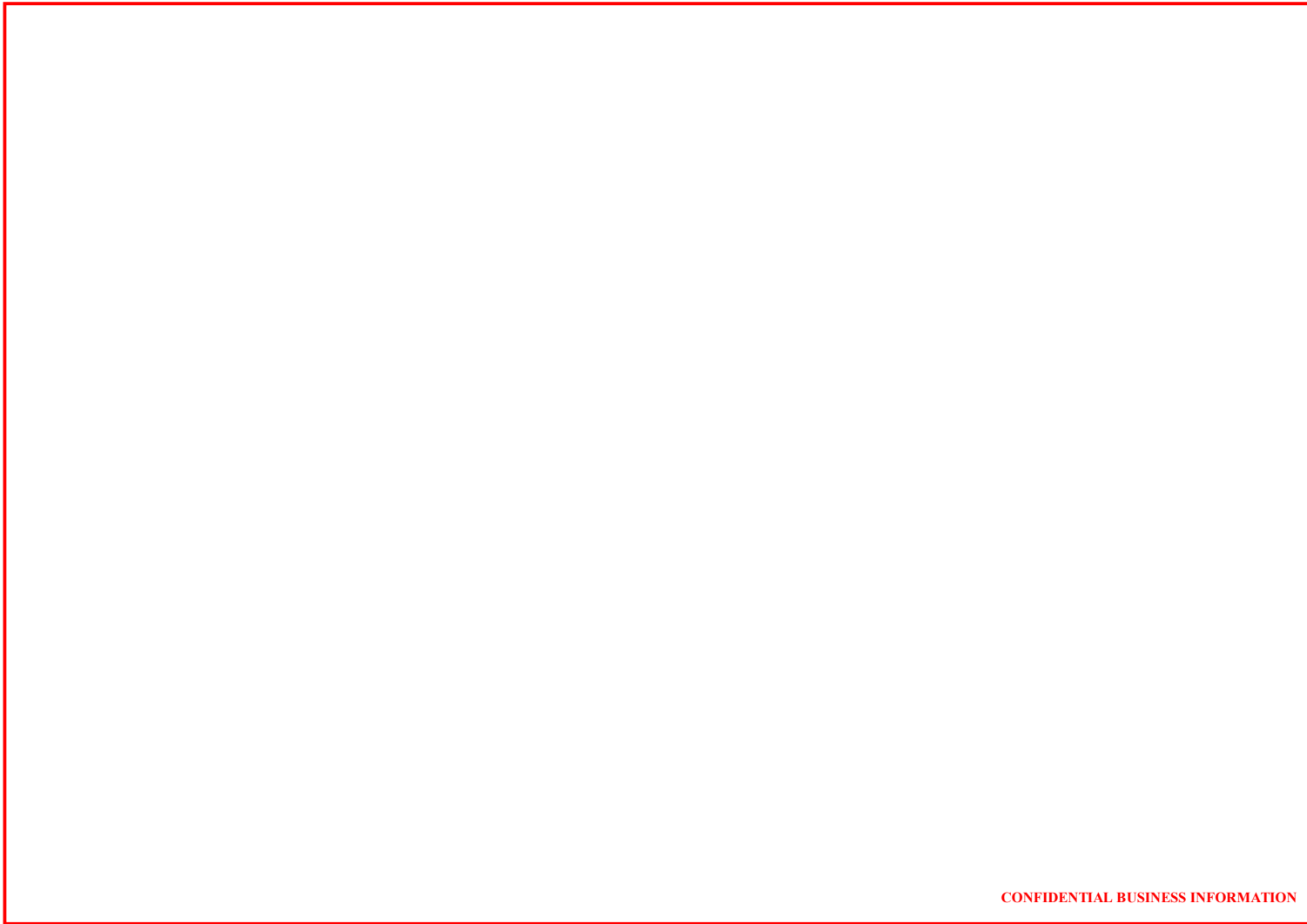


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Test data result for the vehicle speed sensor signal of recovery vehicle(2003MY)

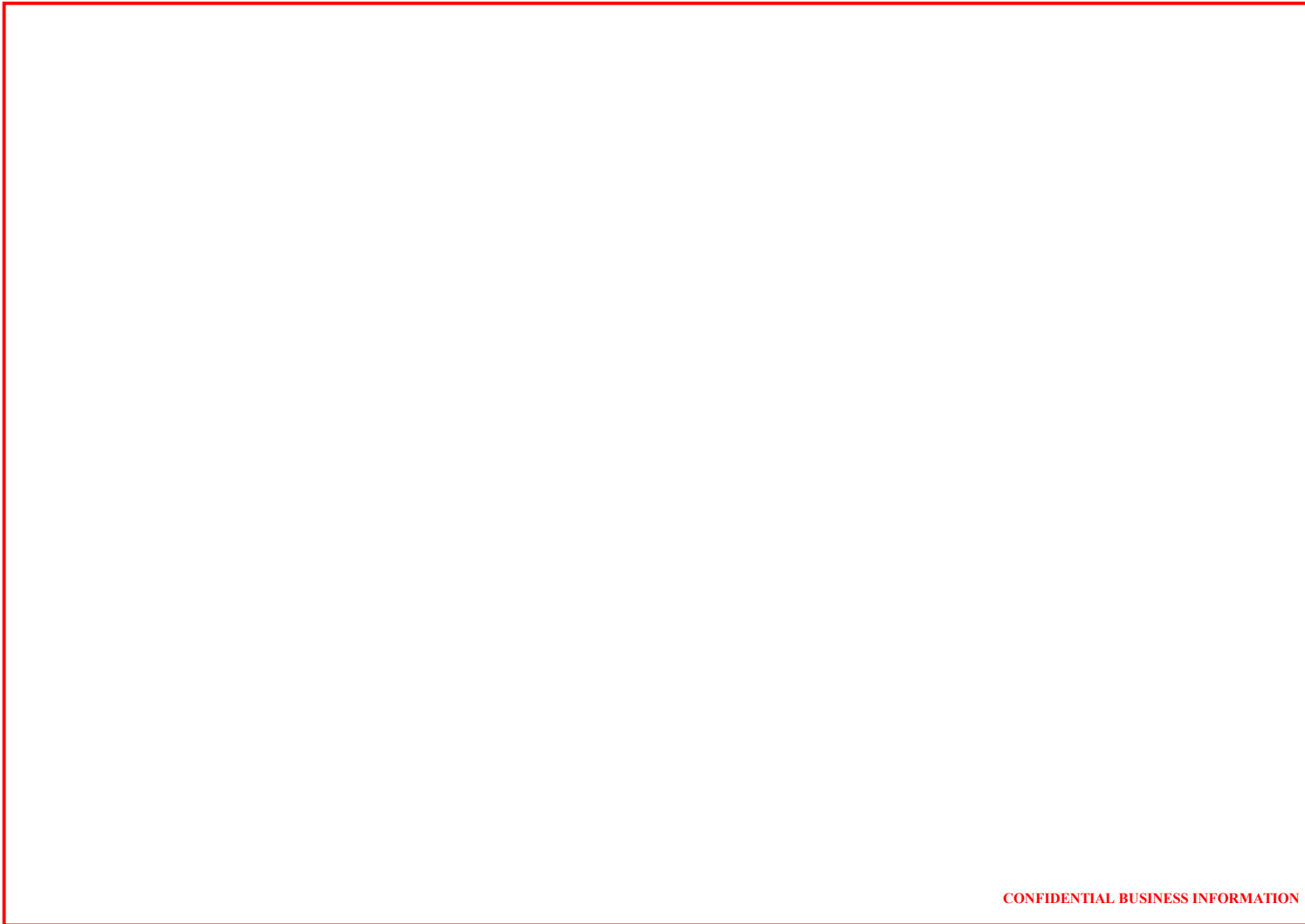
Attachment-Response 8-6

① 360° Turning acceleration:left 0.1G Accel :0-5kph



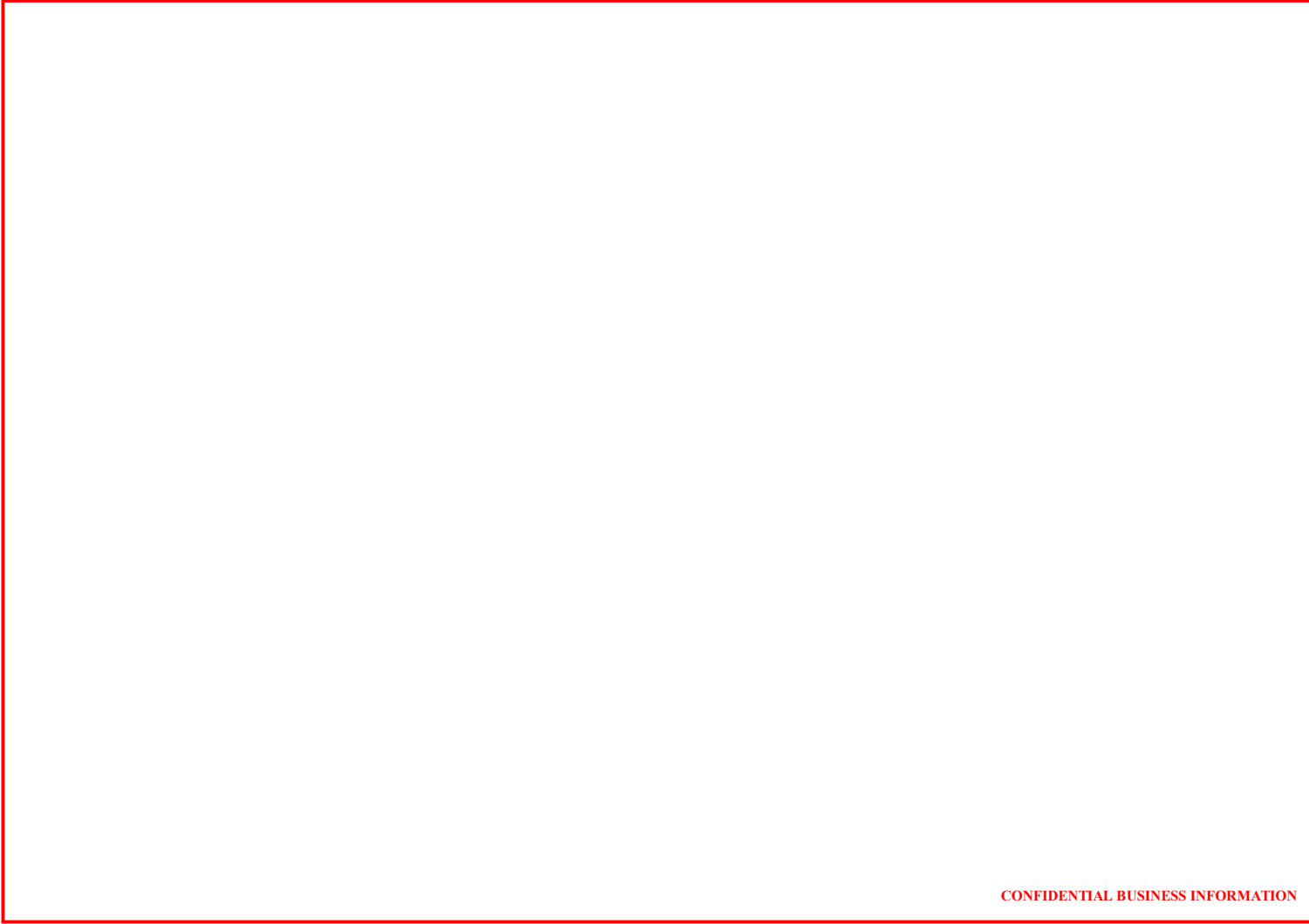
CONFIDENTIAL BUSINESS INFORMATION

② 360° Turning acceleration:left 0.2G Accel 0-5kph



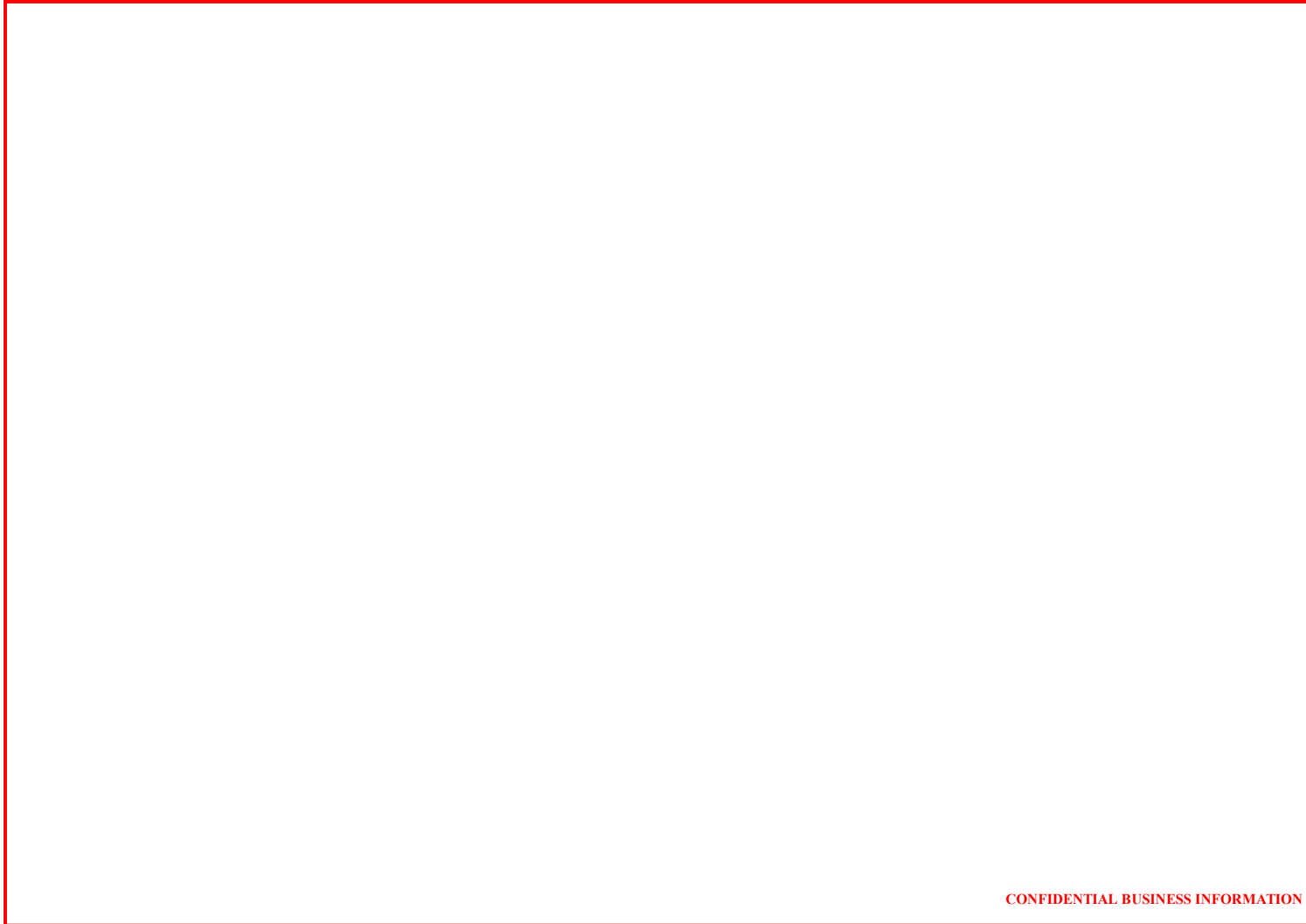
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③ 360° Turning acceleration:left 0.3G加速 0-5kph



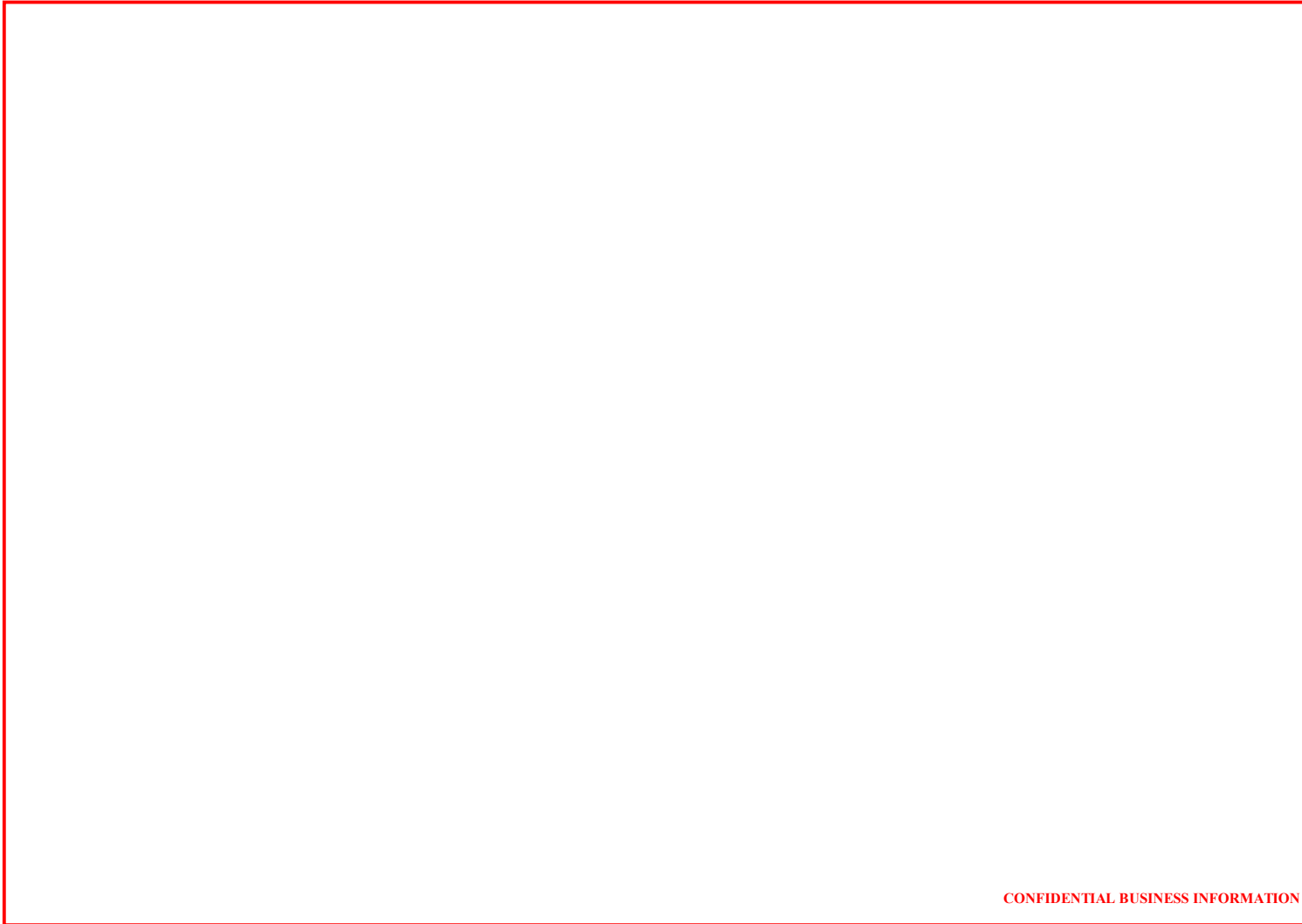
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① 5-10kph



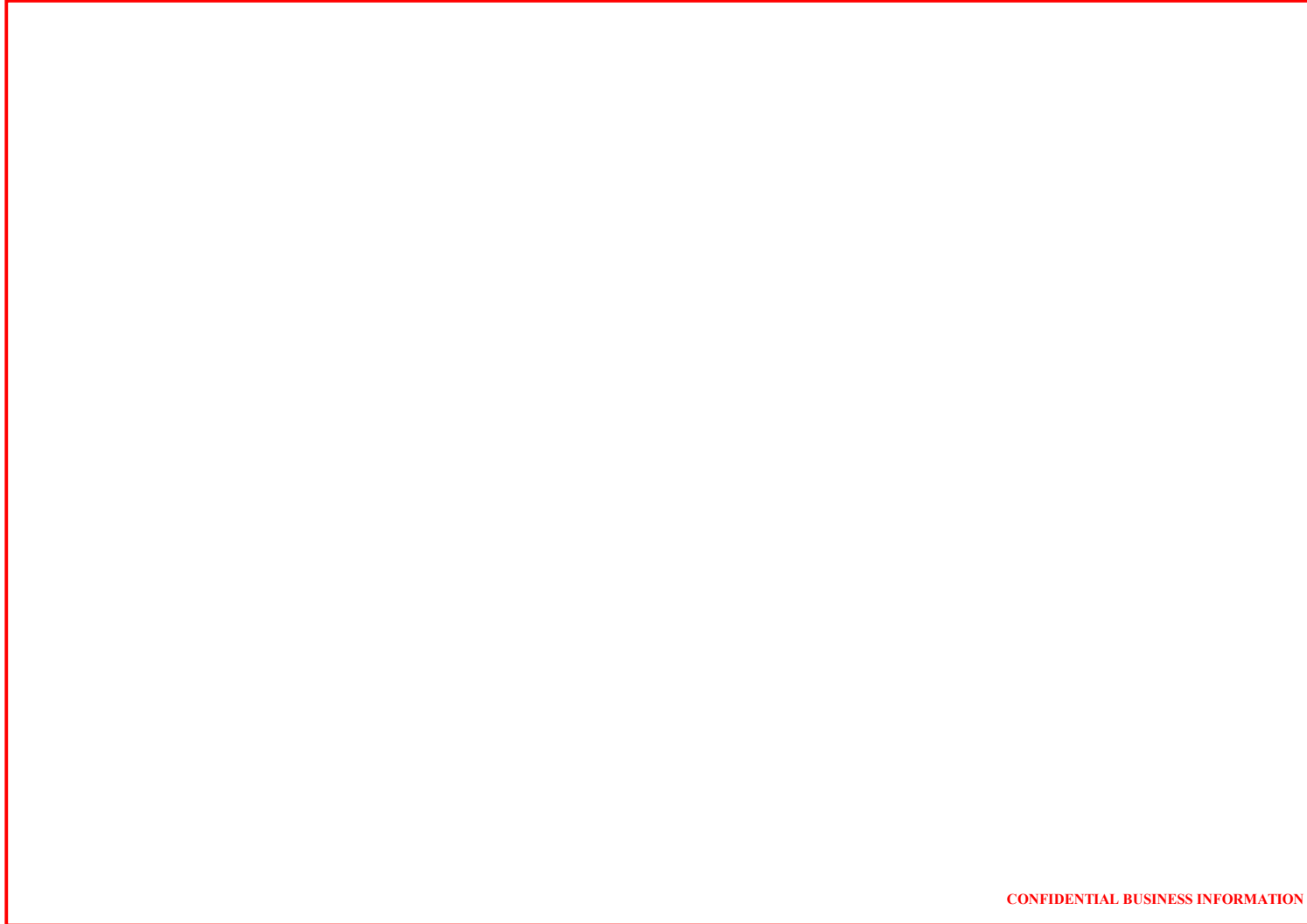
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② 5-10kph



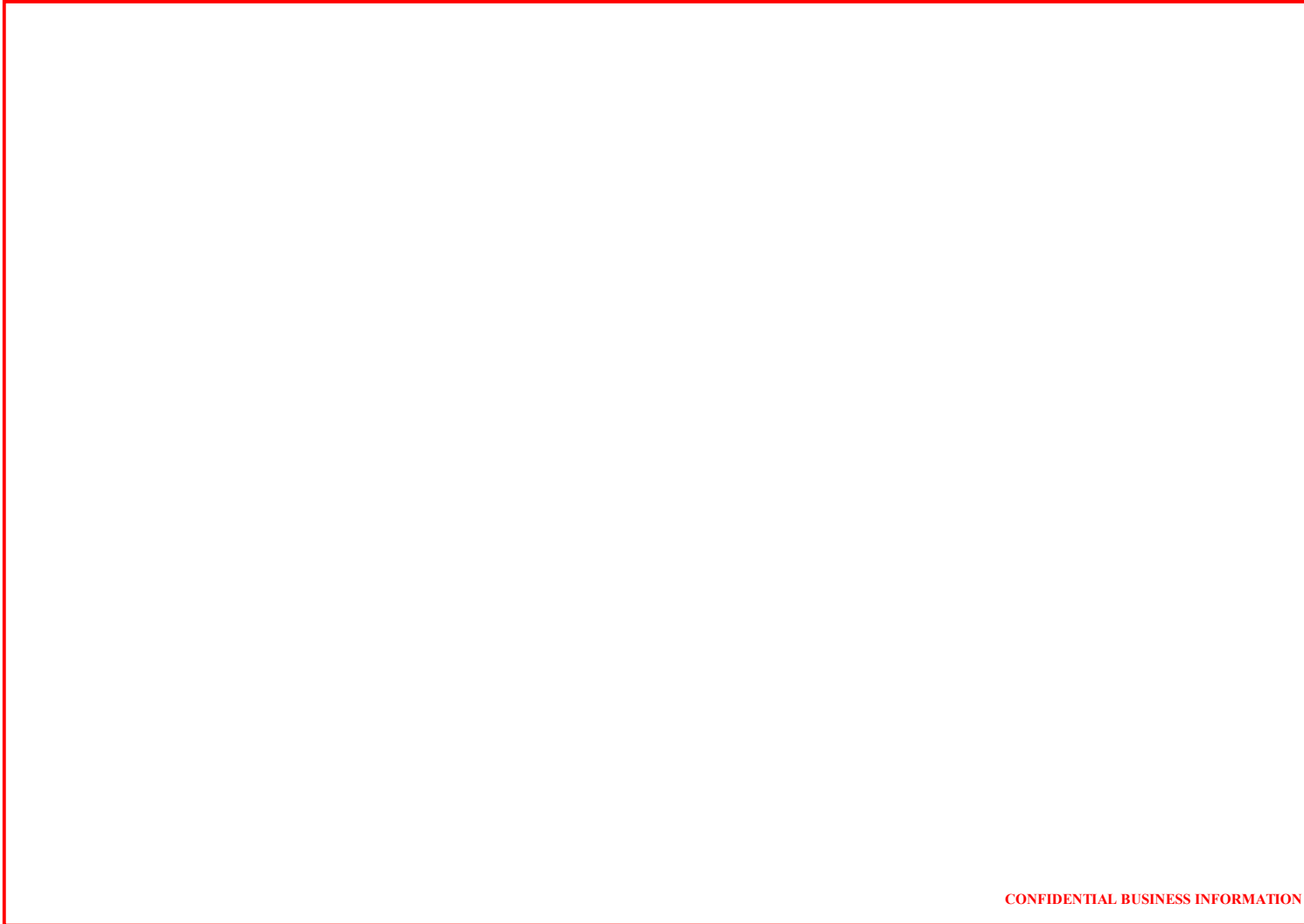
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③ 5-10kph



CONFIDENTIAL BUSINESS INFORMATION

① 10-15kph



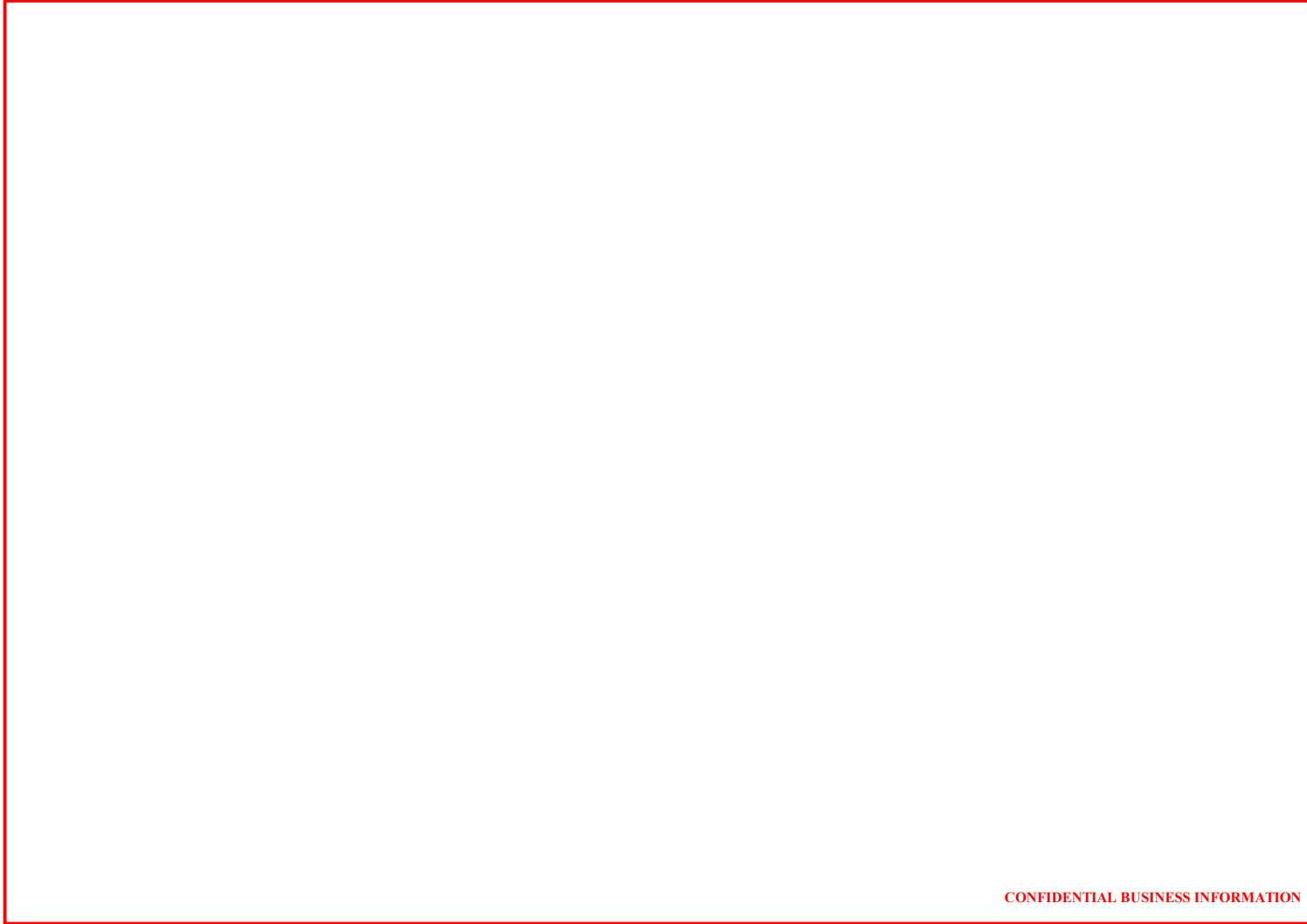
CONFIDENTIAL BUSINESS INFORMATION

② 10-15kph



CONFIDENTIAL BUSINESS INFORMATION

③ 10-15kph



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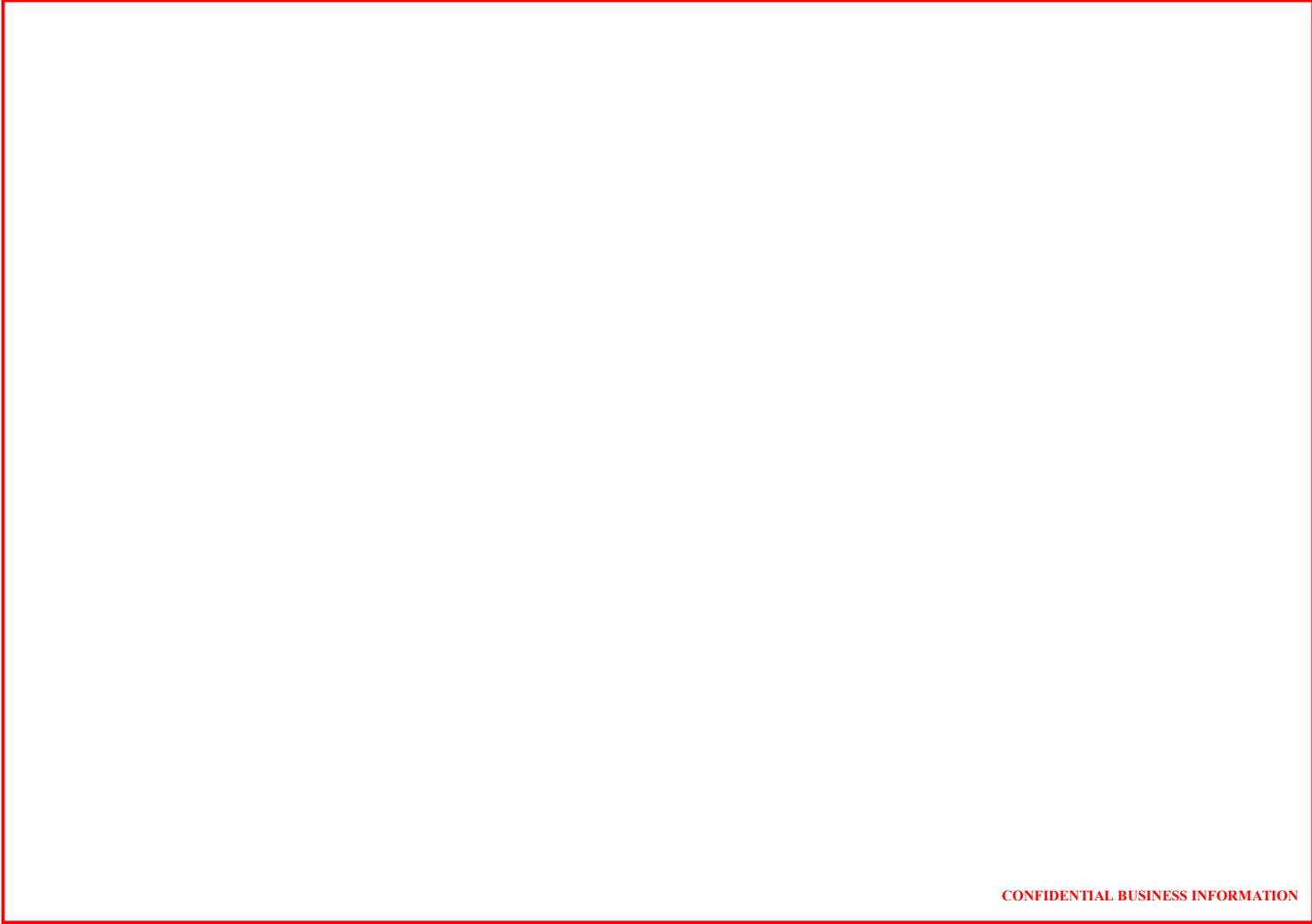
Test data result for the vehicle speed sensor signal of recovery vehicle(2003MY)

Attachment-Response 8-6

② 360° Turning acceleration:right 0.1G Accel 0-5kph

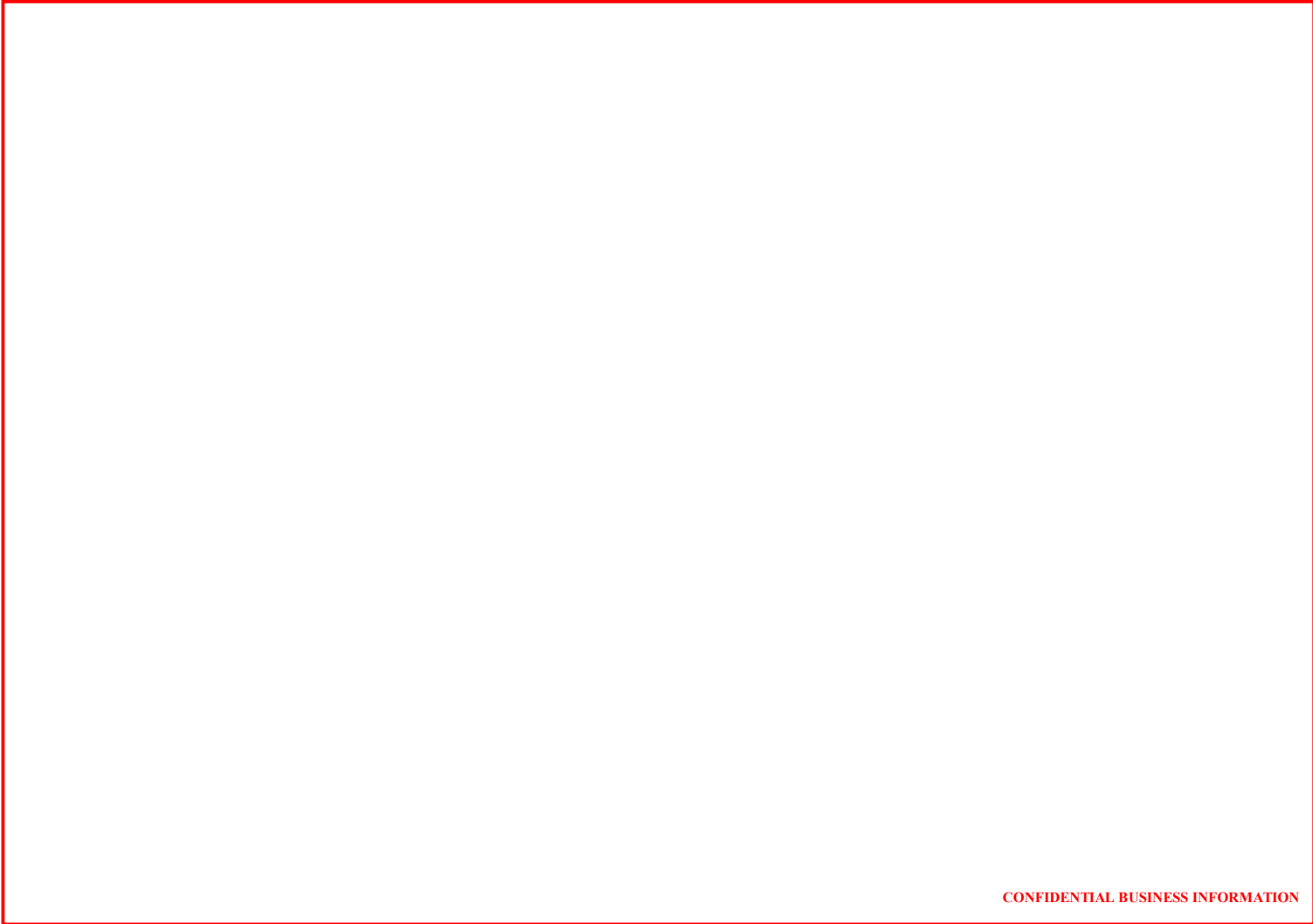
CONFIDENTIAL BUSINESS INFORMATION

② 360° Turning acceleration:right 0.2G Accel 0-5kph



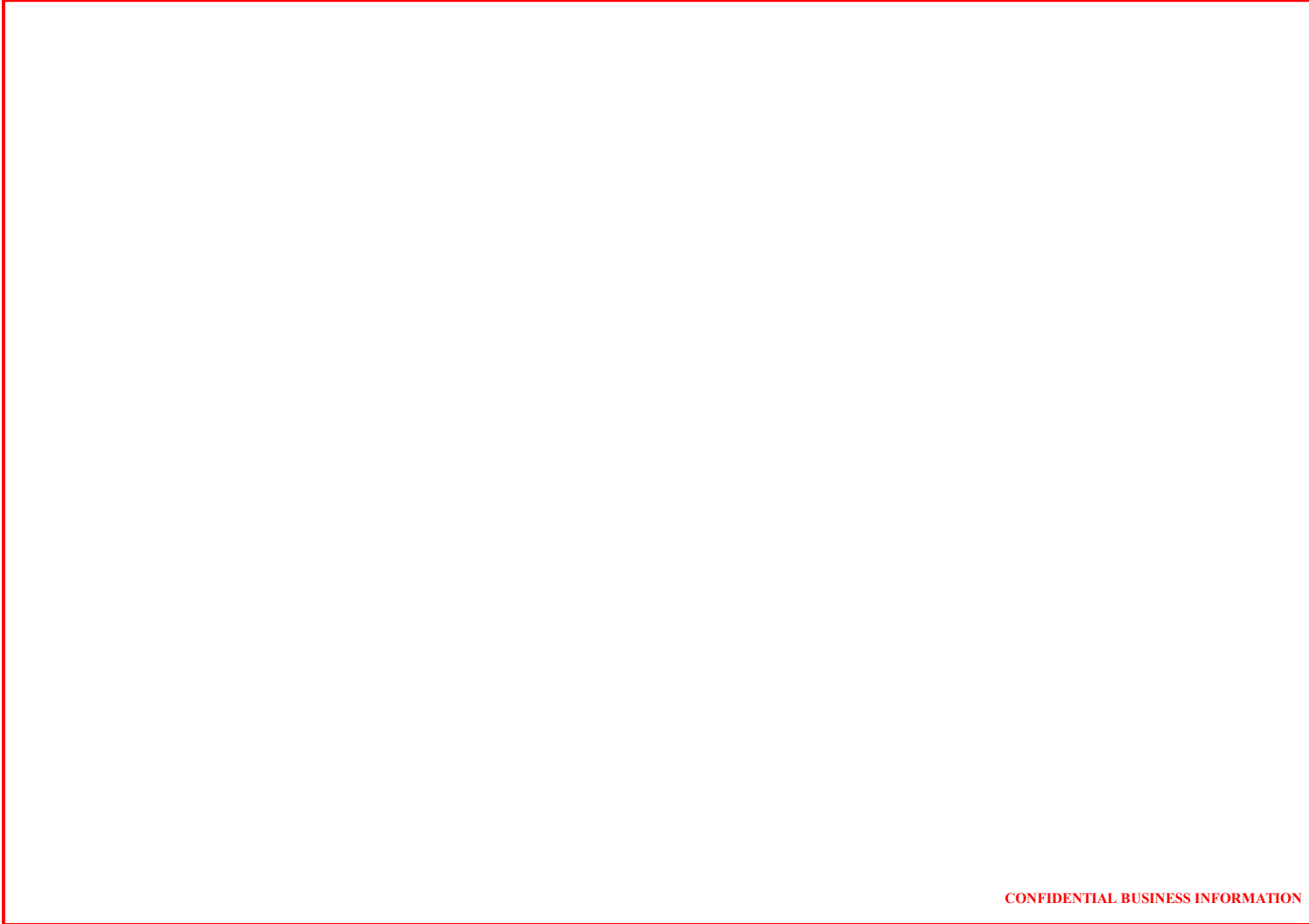
CONFIDENTIAL BUSINESS INFORMATION

③ 360° Turning acceleration:right 0.3G Accel 0-5kph



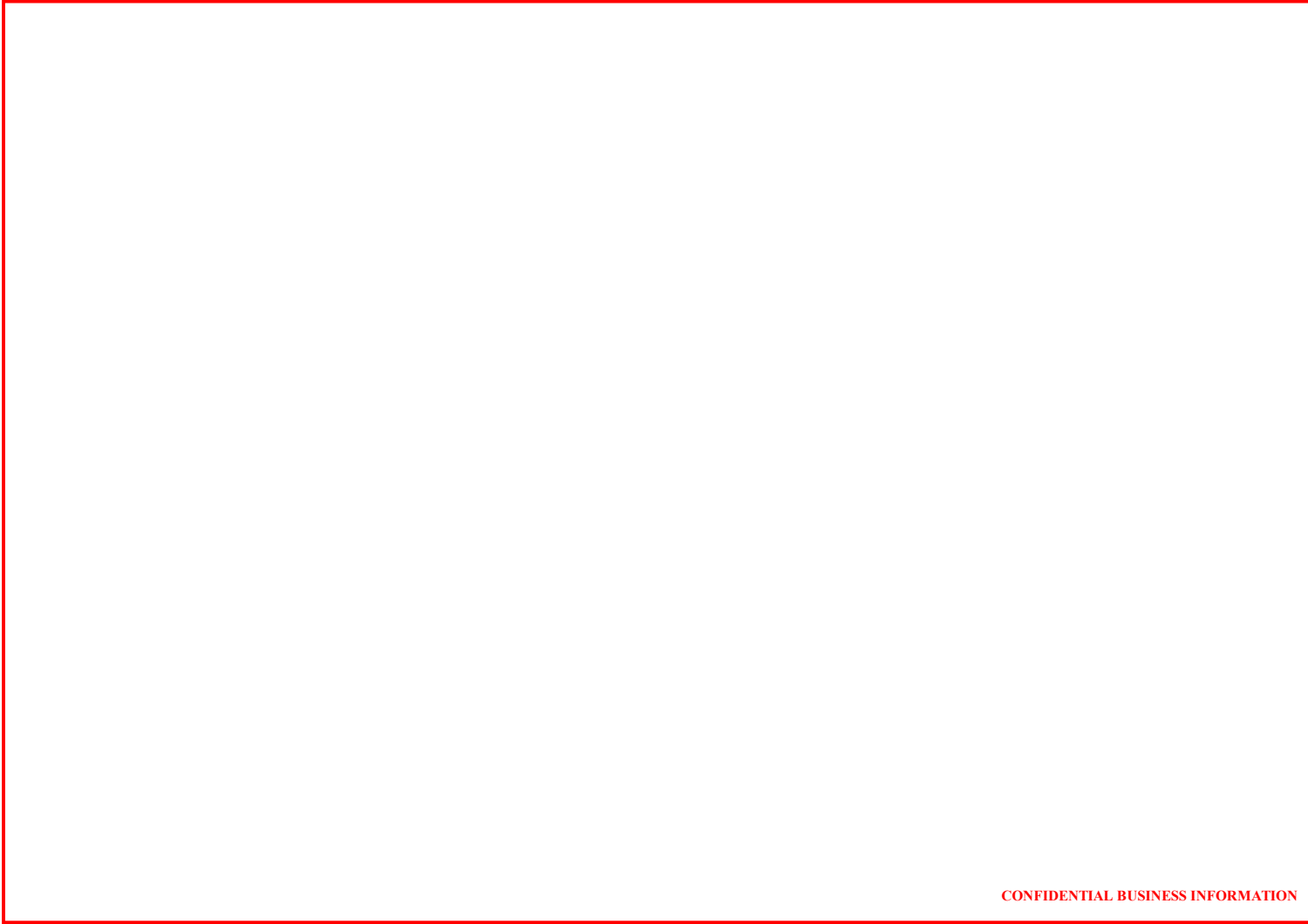
CONFIDENTIAL BUSINESS INFORMATION

① 5-10kph



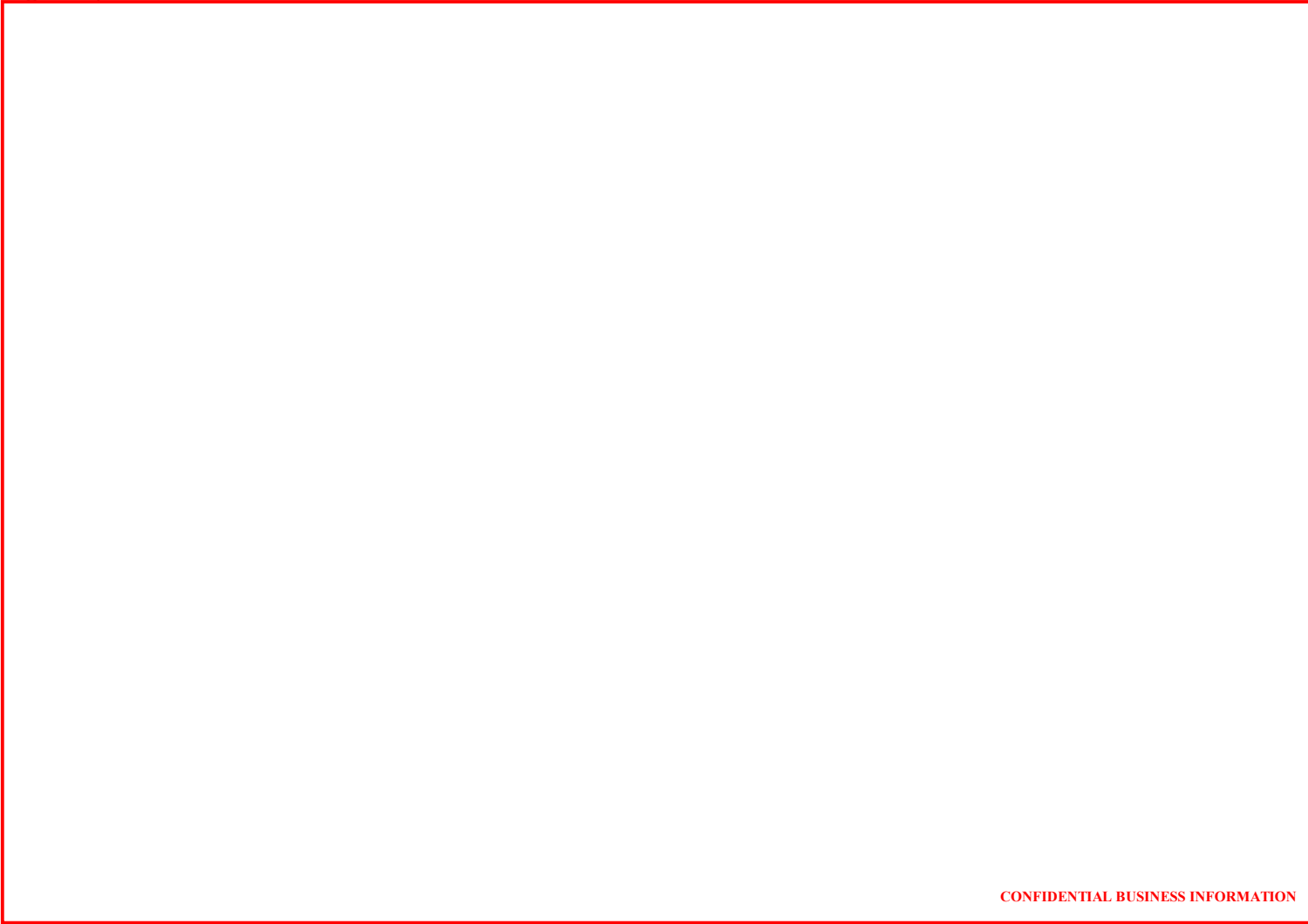
CONFIDENTIAL BUSINESS INFORMATION

② 5-10kph



CONFIDENTIAL BUSINESS INFORMATION

③ 5-10kph



CONFIDENTIAL BUSINESS INFORMATION

① 10-15kph



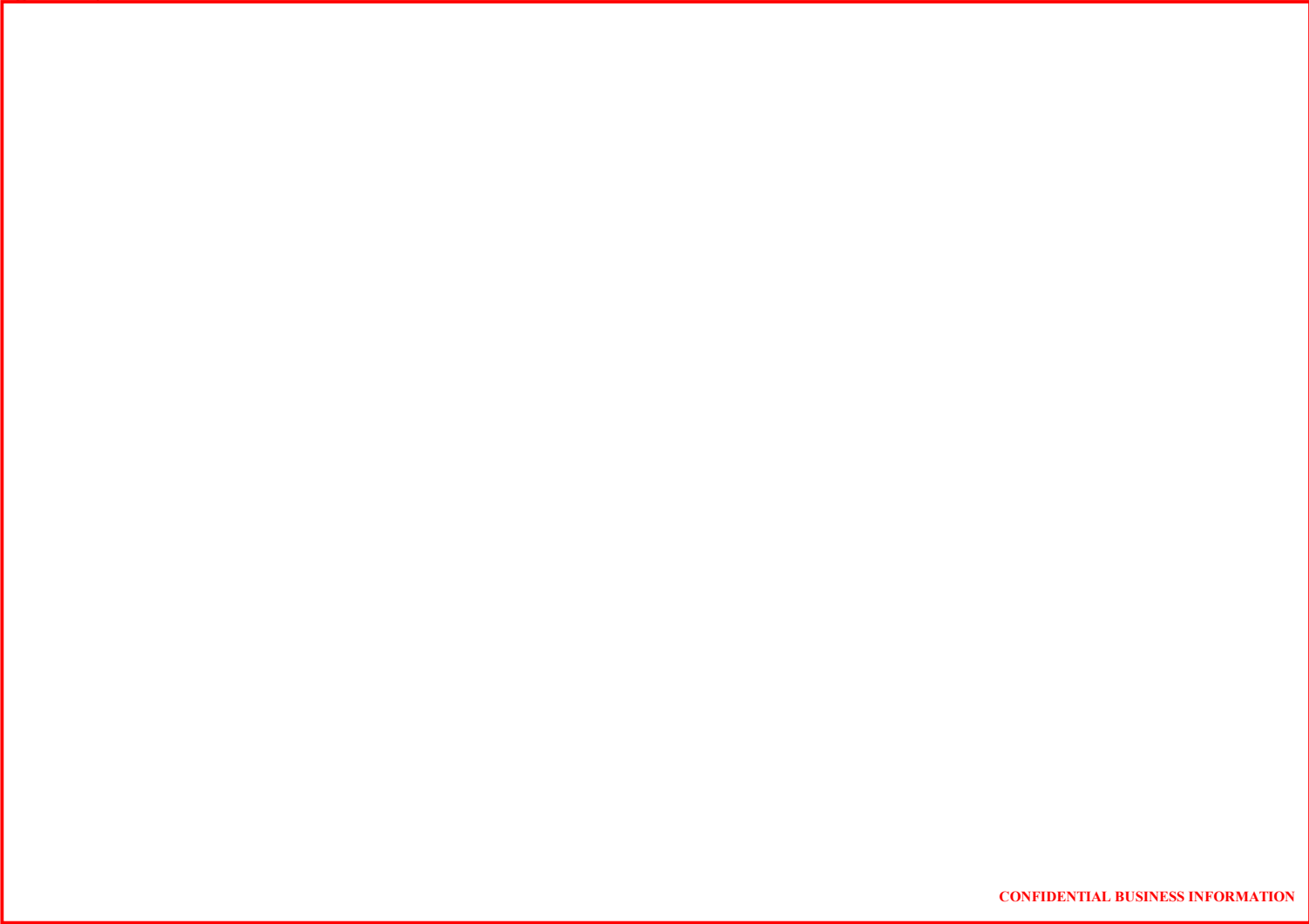
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② 10-15kph



CONFIDENTIAL BUSINESS INFORMATION

③ 10-15kph



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Toyota SEQUOIA MY 2003-2004 NHTSA Investigation for Unnecessary activations

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Rear Speed Sensor Issue

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Rear Speed Sensor Issue

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Steering Angle Sensor issue

Steering Angle Sensor issue