

**Classification:**  
TE02-025c

**Reference:**  
ITB02-059c

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**Date:**  
July 28, 2009

## ESSENTIAL TOOL: J-45718 ICC TARGET BOARD

This bulletin amendment contains additional Applied Vehicles, information for modifying the Target Board, and a revised tool. Please discard all previous versions of this bulletin.
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**APPLIED VEHICLES:**

- 2002 - 2003 QX4 (JR50) - with optional ICC
- 2003 - 2004 M45 (Y34) - with optional ICC
- 2006 - 2009 M35/45 (Y50) - with optional ICC
- 2002 - 2006 Q45 (F50) - with optional ICC
- 2003 - 2008 FX35/45 (S50) - with optional ICC
- 2009 FX35/50 (S51) – with optional ICC
- 2004 - 2009 QX56 (JA60) - with optional ICC
- 2007 - 2009 G35/G37 Sedan (V36) – with optional ICC
- 2008 - 2009 G37 Coupe (CV36) – with optional ICC
- 2008 - 2009 EX35 (J50) – with optional ICC

### SERVICE INFORMATION

When performing "Laser Beam Aiming Adjustment" for the Intelligent Cruise Control (ICC) system, a special tool must be used:

- This special tool is the "Target Board," J-45718.
- This special tool is considered "Essential" and has been sent to each dealer. Your Non-Vehicle account was charged \$600.00 plus applicable taxes and freight.
- A revised (new) Offset Laser Block Adapter (J-45718-10; replaces J-45718-5) was sent on July 27, 2009 to your dealership. Your Non-Vehicle account will be charged \$27.43 plus applicable taxes and freight.
- Additional tools and / or replacement parts can be ordered from TECH-MATE at 1-800-662-2001. Prices are subject to change.
- The Tool Flyer and Parts Replacement List that were shipped with the tool are included in this bulletin on pages 11 and 12.
- The Target Board illustrations in the ACS (Auto Cruise Control System) and CCS (Cruise Control System) sections of the Electronic Service Manual (ESM), as it applies, do not show several improvements that were applied to the tool during development. These improvements allow for easier and faster set up.
- The Target Board material has special "reflective" properties. Other materials should not be used.

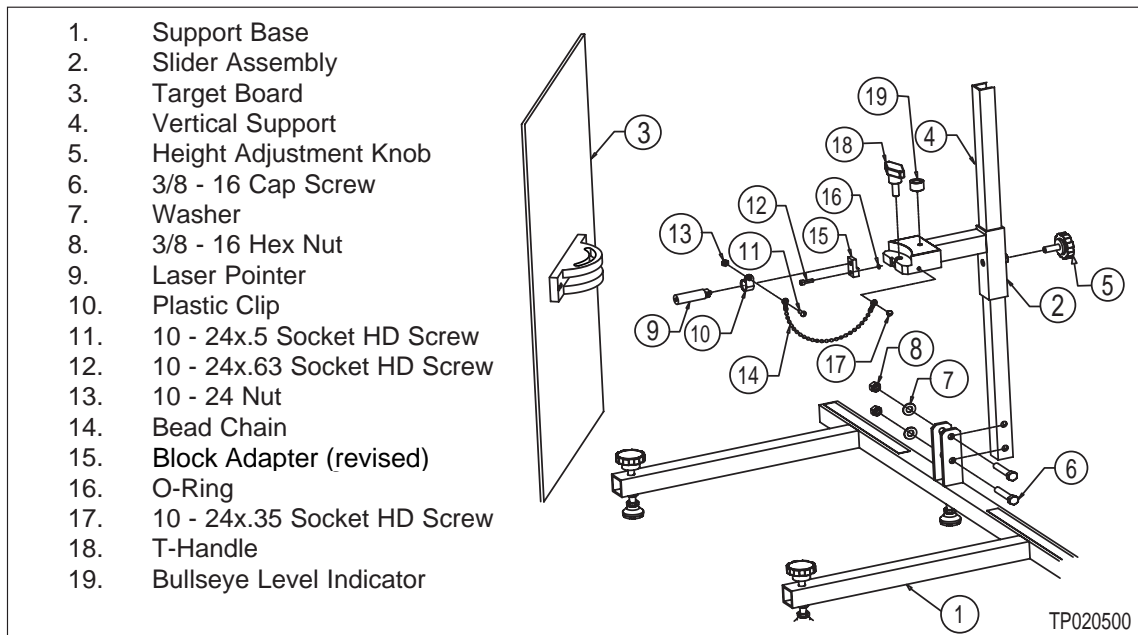


Figure 1

When performing the "Laser Beam Aiming Adjustment," use the Target Board Set-Up Instructions in this bulletin. Also, follow the steps for CONSULT II / III operation (as applicable) in the appropriate section of the Electronic Service Manual (ESM).

**WARNING:** Do Not look straight into the ICC sensor (laser beam discharge) when performing "Laser Beam Aiming Adjustment" with CONSULT.

## SET-UP PROCEDURES

### Vehicle Set-Up:

#### 1. Prepare the vehicle for "Laser Beam Aiming Adjustment:"

- Place the vehicle on a flat level surface.
- Make sure you leave a minimum of 18 feet (5.5 meters) of space in front of the vehicle.
- Check/adjust tire pressure to the specified pressure for the vehicle being serviced.
- Make sure there is "no-load" in the vehicle other than the driver (or equivalent weight placed in the driver's position).
- Coolant and engine oil must be filled up to the correct level, and the fuel tank must be full.
- Shift the gear selector into "P" position and release the parking brake.
- Clean the ICC sensor with a soft cloth.

### Target Board Set-Up:

2. First, you'll need a length of string about 30 feet (9 meters) long.

3. Tape one end of the string to the ground at the center point of the rear of the vehicle (see Figure 2).

NOTE: The Infiniti emblem can be used to align the center point (see Figure 2).

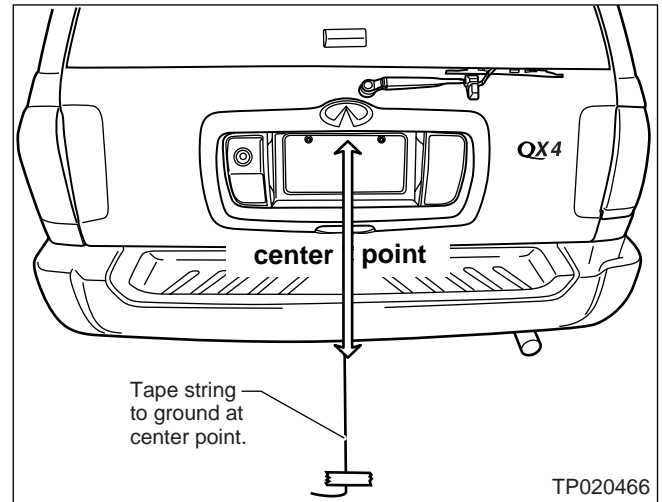


Figure 2

4. Now, "extend" the string under the vehicle and out the front.

- Pull it out about 18 feet (5.5 meters) in front of the vehicle (see Figure 3).

5. Pull the string straight and align it with the centerline of the vehicle front, then tape the string to the ground (see Figure 3).

NOTE: You can use the Infiniti emblem to align the string with the centerline of the vehicle (see Figure 3).

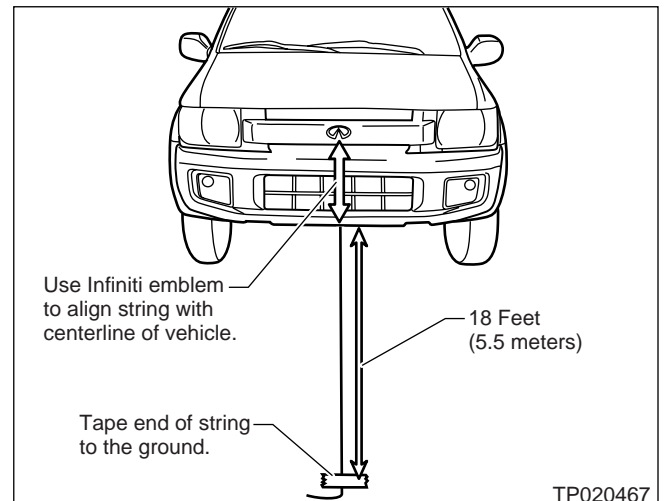


Figure 3

6. Attach the Laser Pointer to the Slider Assembly.

- As shown in Figure 4, the Target Board is removed from the Slider Assembly when the Laser Pointer is attached.

NOTE: The Laser Pointer mounting is off-set, depending on the vehicle you're working on. It could be up, down, or to the side (left/right). See Figures 4 and 4a.

- See Table A on page 4 for vehicle off-set application.
- To change the off-set, remove the mounting screw and rotate the block adapter.

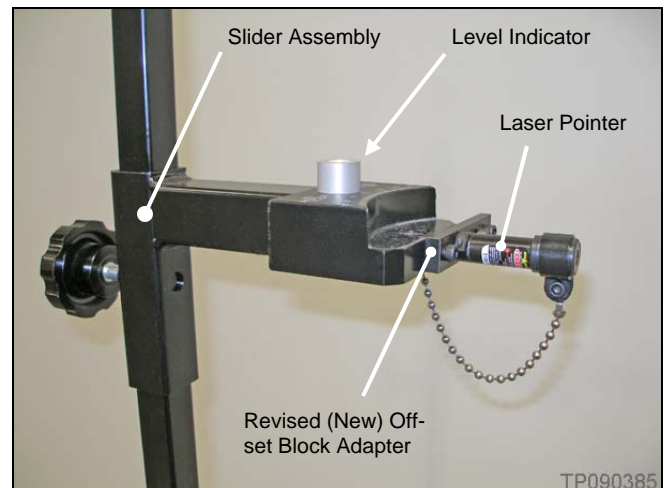
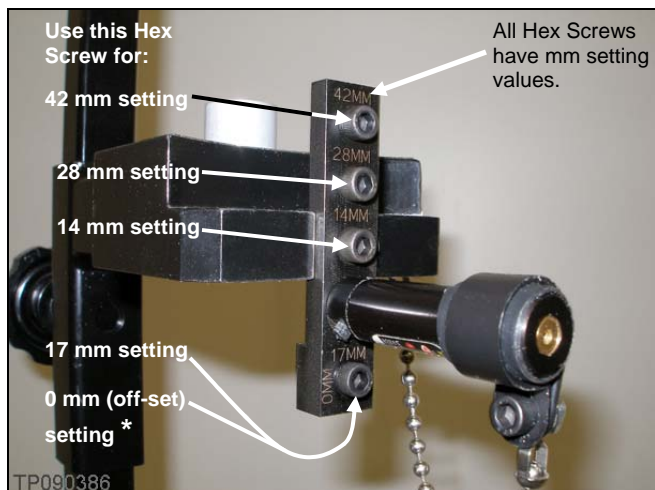


Figure 4

Vehicle	Position
QX4 (JR50)	17 mm
QX56 (JA60)	17 mm
Q45 (F50)	17 mm
M45 (Y34)	17 mm
M35/45 (Y50)	28 mm
EX35 (J50)	28 mm
G35/G37 Sedan (V36)	42 mm
G37 Coupe (CV36)	42 mm
FX35/45 (S50)	0 mm *
FX35/50 (S51)	14 mm

**Table A**

\* The block adapter is mounted horizontally with the hex screw shown in Figure 4.

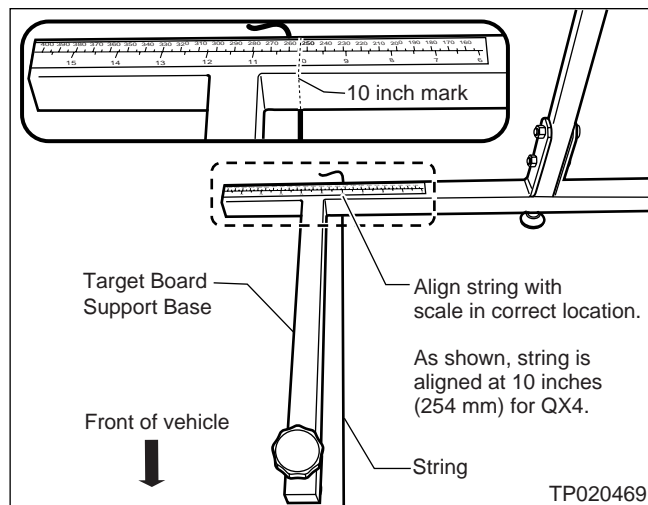


**Figure 4a**

7. Now, you'll need to align the Target Board Support Base to the vehicle as follows:

- a. Look at the chart on page 5 to determine where the string should be aligned.

**NOTE:** The support base has an alignment scale on both sides, driver and passenger. Figure 5 shows the driver side.



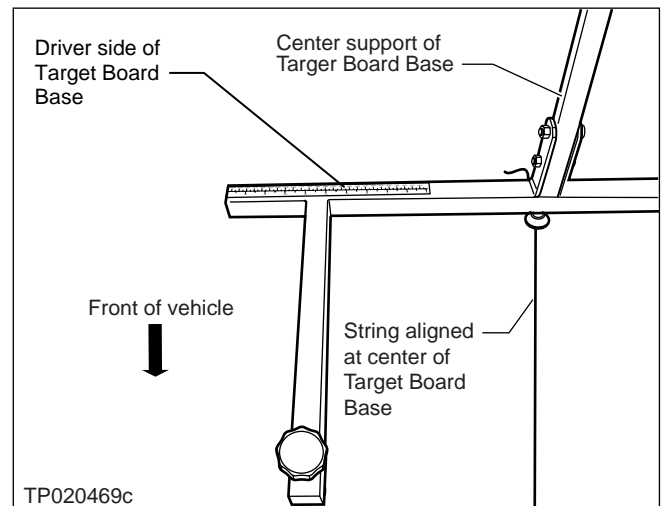
**Figure 5**

- b. Set the legs of the Target Board Support Base into alignment (parallel) with the string.
- c. Look at Table B below, and make note of **Alignment** (measurement) for the vehicle you're working on.
- d. Move the base left or right and align the string to the correct reading on the scale, or to the center.
  - Make sure the legs of the Target Board Support Base are always parallel to the string.

Vehicle	Use Scale Side	Alignment
QX4 (JR50)	Driver	10 inches (254 mm) as shown in Figure 5
2002-2004 Q45 (F50)	Driver	10.8 inches (275 mm)
2005-2006 Q45 (F50)	N/A	Center (see Figure A, below)
M45 (Y34)	Driver	12.8 inches (324 mm)
2006-2007 M (Y50)	Passenger	10.5 inches (266 mm)
2008-2009 M (Y50)	Passenger	9.88 inches (251 mm)
FX35/FX45 (S50)	Driver	12.2 inches (310 mm)
FX35/50 (S51)	Passenger	12.4 inches (315 mm)
QX56 (JA60)	Driver	8.6 inches (218 mm)
G35/G37 Sedan (V36)	Passenger	15.91 inches (404 mm) 9.72 inches (247 mm) for "Sport" series bumper
G37 Coupe (CV36)	Passenger	
EX35 (J50)	Passenger	10.12 inches (257 mm)

**Table B**

**NOTE:** For vehicles requiring string alignment at the center (as indicated in the chart above), align string as shown in Figure A.



**Figure A**

8. Now you'll set the distance from the front of the Laser Pointer to the front most edge of the vehicle front bumper.

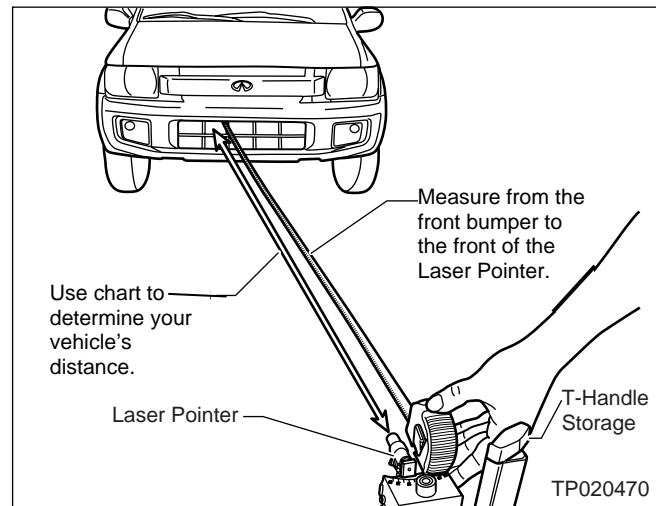
- Put the height of the Laser Pointer about equal to that of the ICC Sensor's before measuring.
- Use Table C below to determine the distance to be measured.

Vehicle	Distance
Q45 (F50)	16.4 feet (5 m)
M45 (Y34)	
FX35/45 (S50)	
QX56 (JA60)	
QX4 (JR50)	
M35/50 (Y51)	12.8 feet (3.9 m)
FX35/45 (S50)	
G35/G37 Sedan (V36)	
G37 Coupe (CV36)	
EX35 (J50)	

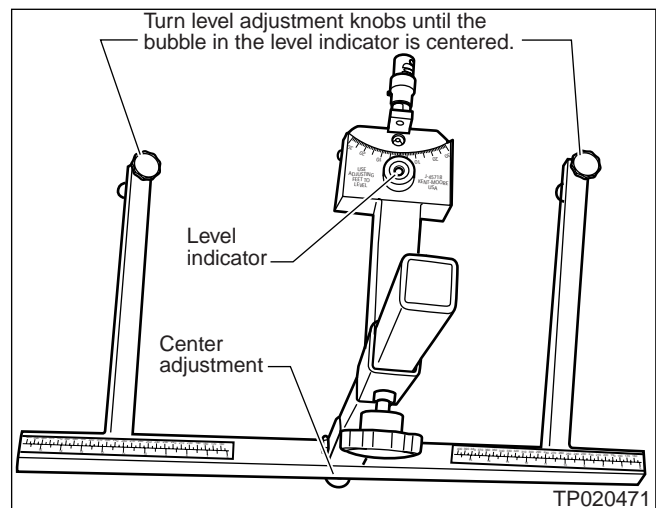
**Table C**

**NOTE:** While moving the Support Base to this distance, make sure the string stays correctly aligned.

**TIP:** There is a T-handle used for Target Board mounting. Store the T-handle in the opening at the top of the Vertical Support when not in use (see Figure 6).



**Figure 6**



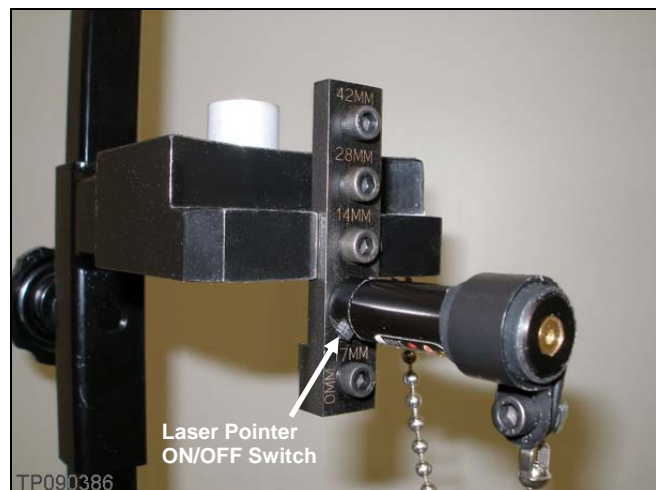
**Figure 7**

9. Now you'll need to "level" the Target Board Support Base (see Figure 7).

- Bring the bubble into the center of the level indicator. To do this, turn the knobs on the Support Base legs.

**NOTE:** If the work surface under the support base is slightly uneven, use the center adjustment for additional leveling.

10. Turn the Laser Pointer ON. The switch is at its base (see Figure 8).



**Figure 8**

11. Adjust the Pointer Beam up or down so it strikes the ICC sensor (see Figure 9).

- For Laser Pointer Beam-on-sensor lens target location, refer to Table D below to determine which ICC sensor “Example” to use (as a guide).
- Loosen the height adjustment knob.
- Once Pointer Beam is adjusted, tighten the knob.
- It may be necessary to slightly rotate the Support Base left or right to horizontally aim the Pointer Beam in the correct position.

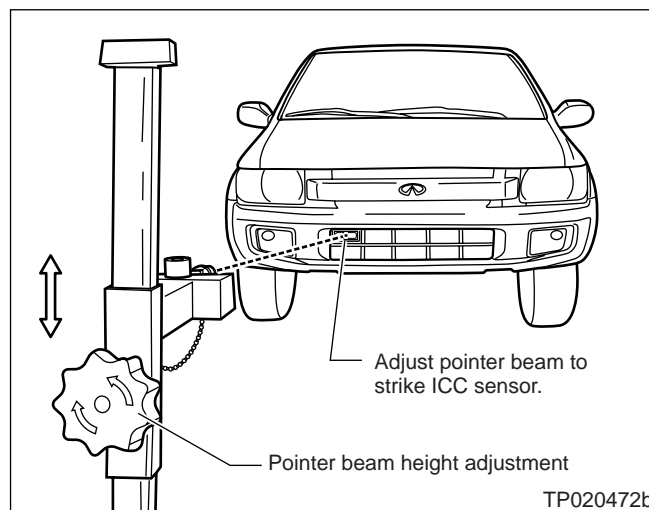


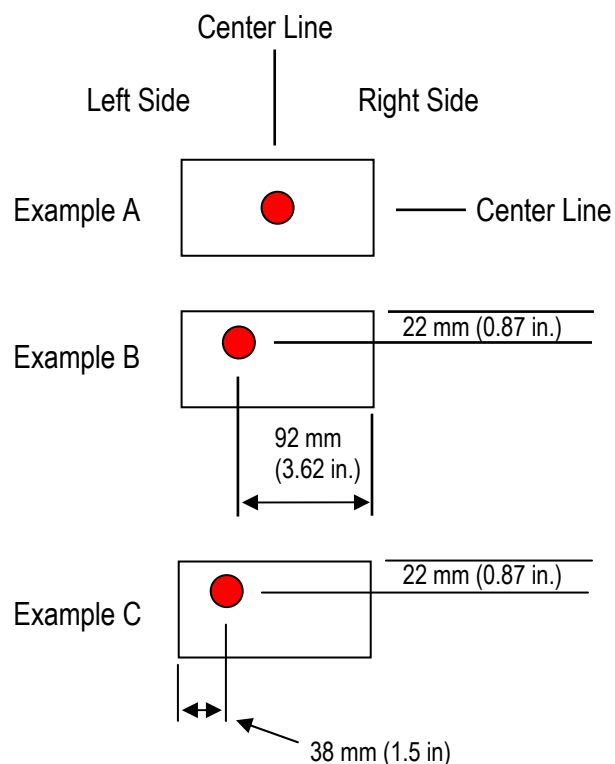
Figure 9

**NOTE:** Normally, “Left” and “Right” is determined when sitting in the driver seat. For this procedure only, “Left” and “Right” will be determined when standing in front of and looking at the front of the vehicle.

Vehicle	Example
QX4 (JR50)	A
Q45 (F50)	A
M45 (Y34)	A
2006-2007 M (Y50)	B
2008-2009 M (Y50)	C
2003-2008 FX35/45 (S50)	A
2009 FX35/50 (S51)	C
QX56 (JA60)	A
G35/G37 Sedan (V36)	C
G37 Coupe (CV36)	C
EX35 (J50)	C

Table D

**NOTE:** Measure from the edges of the laser lens itself, not the fascia around it.

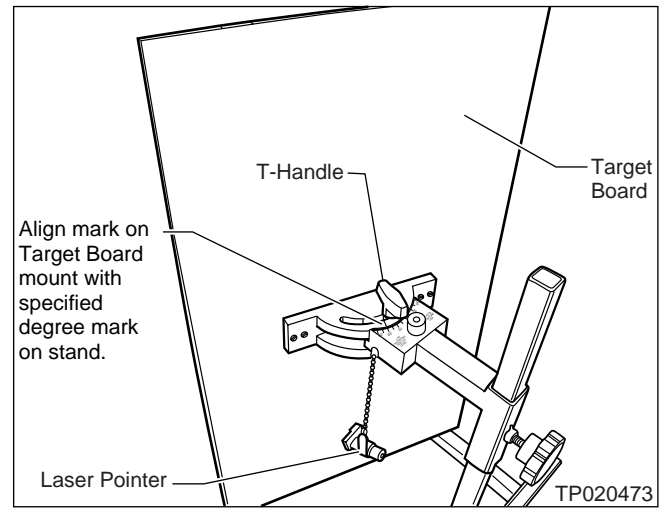


**WARNING:** The Pointer Beam emits “laser radiation.” Avoid direct eye exposure. Do not look directly into the Pointer Beam.

12. Remove the Laser Pointer—with the off-set block adapter still attached—from the Slider Assembly (see Figure 10).

**NOTE:** At this point, do not move the Target Board Base.

- If the Target Board Base is bumped or moved, its alignment procedure (starting at Step 7) will need to be performed again.



**Figure 10**

13. Install the Target Board (see Figure 10):

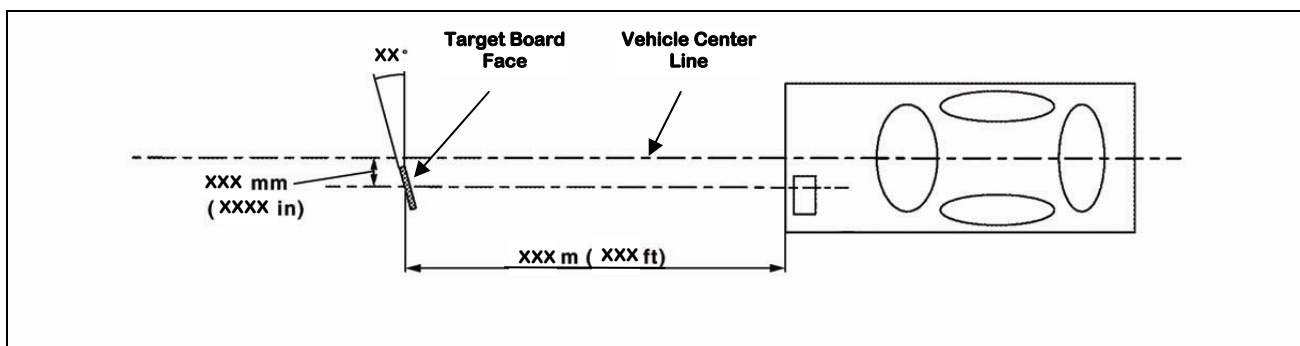
- Set alignment mark at degree setting as stated in Table E.
- Hand-tighten the T-handle.

**NOTE:** The face of the Target Board, when angled, should be facing toward the center of the vehicle.

Vehicle	Degrees Setting
Q45 (F50)	20°
M45 (Y34)	
2003-2008 FX35/45 (S50)	
QX56 (JA60)	
QX4 (JR50)	
2006-2007 M (Y50)	25°
2008-2009 M (Y50)	
2009 FX35/50 (S51)	
G35/G37 Sedan (V36)	
G37 Coupe (CV36)	
EX35 (J50)	

**Table E**

Figure 11 shows an example for a Target Board located on the driver side of the Vehicle Center line.



**Figure 11**



## IMPORTANT:

Follow the procedure below if your Target Board's height is not already at the Final Height measurement.

- Due to the lower position of the ICC sensor on the 2006 M and 2005 Q45, the Target Board will need to be modified for use on these vehicles.
- This modification is also recommended when using this tool on 2003-2004 M45. It will make it easier to install the board in the correct position.
- This modification will not affect the use of the board on other vehicles.
- Cut 70 mm (2.75 in) off of the bottom of the Target Board.
- Score the white reflective tape with a razor knife, and then use a suitable handsaw to make the cut.
- The final height (after cut) of the board should be 630 mm (24.8 inches).

**NOTE:** Target boards, or complete tools purchased after March 23, 2004, will already be the smaller size and won't need to be cut. If you're not sure, measure your board. The new size is 630 mm (24.8 inches) high.

- The MSDS for the Target board is attached at the end of this TSB (pages 11 and 12).

14. Set up the Background Board behind the Target Board (see Figure 13).

- The Background Board prevents reflection from objects such as workbenches, walls or other vehicles.

**Vehicle and Target Board set-up is complete.**

15. Perform "Laser Beam Aiming Adjustment" Procedure.

- Use CONSULT II / III, as applicable.
- Refer to the appropriate section of the ESM.

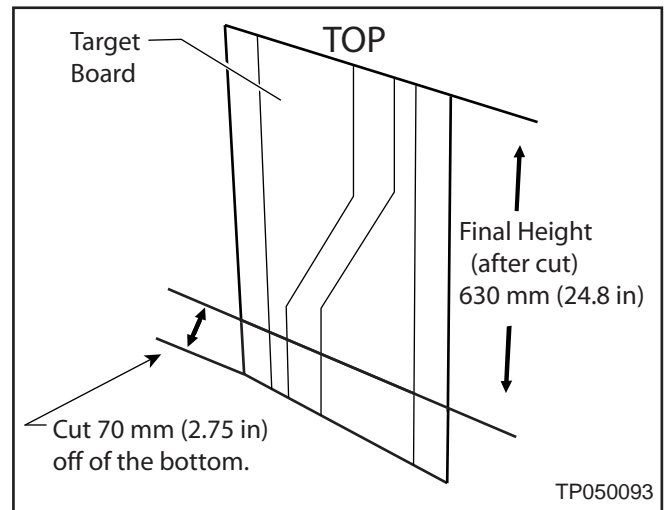


Figure 12

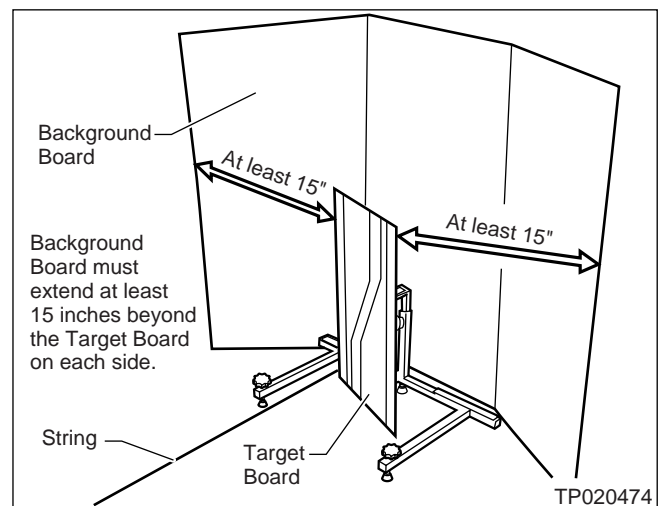


Figure 13

**WARNING:** Do Not look straight into the ICC sensor (laser beam discharge) when performing "Laser Beam Aiming Adjustment" with CONSULT.

When the Target Board is not in use (stored), wrap the Background Board around the Target Board and use the Velcro straps to hold it in place (see Figure 14).

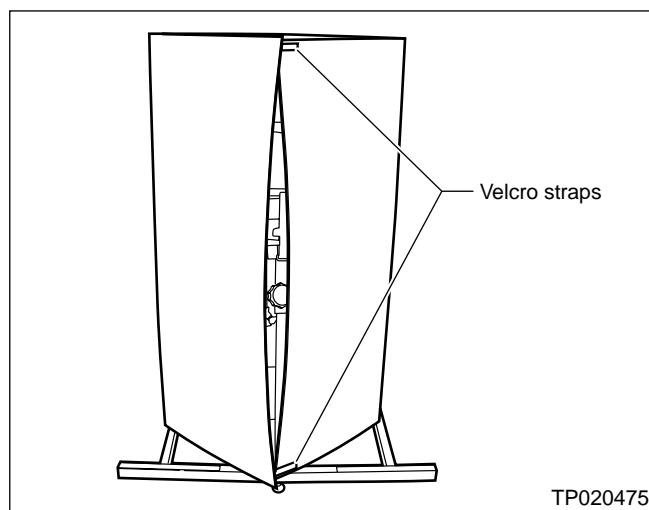


Figure 14



# TECH·MATE

## ESSENTIAL TOOL SHIPMENT



**TO: Dealer Principal and Dealer Service Manager**

### **2002 Infiniti EG-332-02-09**

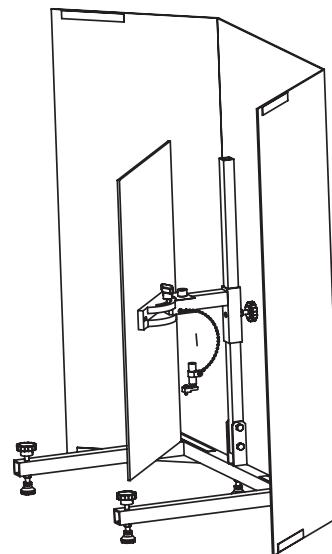
The following service tool has been classified essential by Nissan North America, Inc

#### **J-45718**

#### **ICC System Target Board**

Application: Q45, QX4, M45

**Note:** This special service tool is required to adjust (aim) the laser beam on the Intelligent Cruise Control System. The laser beam must be adjusted every time the ICC sensor is removed or installed on the noted vehicles. The special black and white target board materials have a specific reflective rate needed for the laser sensor. The stand includes a built-in bulls-eye level, laser pointer, protractor, and scale for faster and easier set-up. A flat black backdrop is included to eliminate reflections from nearby objects. The backdrop can also be used to protect the target board while in storage between uses. Please reference ITB02-059 in ASIST for information on ICC Target Board use.



*This essential tool will be invoiced to your Infiniti non-vehicle account at \$600.00 (plus appropriate taxes and freight) in accordance with your dealer agreement with Nissan North America, Inc.*

Promotion # IF02-532A

**SPX KENT-MOORE**

SPX Corporation • 655 Eisenhower Drive • Owatonna, MN 55060-0995 • Phone 800-662-2001 • Fax 586-578-7375

**Phone 1-800-662-2001 • FAX 1-586-578-7375**



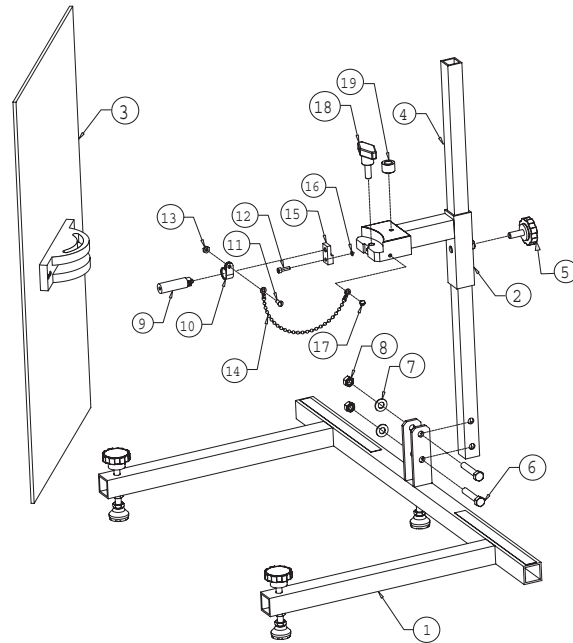
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# TECH·MATE

## REPLACEMENT PARTS LIST



#	Description	Order #
1	Support Base	J-45718-1
2	Slider Assembly	J-45718-2
3	Board Assembly	J-45718-3
4	Vertical Support	J-45718-4
9	Laser	J-45718-5
15	Block Adapter (revised)	<b>J-45718-10</b>
5	Clamp Knob	511910
6	3/8 - 16 Cap Screw	10057
7	Washer	10258
8	3/8 - 16 Hex Nut	10204
10	Plastic Clip	513202
11	10 - 24x.5 Socket HD Screw	11434
12	10 - 24x.63 Socket HD Screw	11152
13	10 - 24 Nut	10197
14	Bead Chain	513201
16	O-Ring	10265
17	10 - 24x.38 Socket HD Screw	14276
18	Clamp Knob	511916
19	Bullseye Level	511979
Not Shown	Background Board	J-45718-6



**SPX KENT-MOORE**

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**Phone 1-800-662-2001 • FAX 1-586-578-7375**



TP020482

# MATERIAL SAFETY DATA SHEET

Revised 1-June-2004

## SECTION 1 PRODUCT IDENTIFICATION, EMERGENCY INFORMATION

MANUFACTURER'S NAME		UNITIKA LTD.		
ADDRESS				
〒541-8566 4-1-3 KYUTARO-MACHI CHUOU-KU, OSAKA, JAPAN				
PHONE NO. (FOR INFORMATION)		+81-6-6281-5354		
EMERGENCY PHONE NO.		+81-774-25-2335		
CHEMICAL NAME		Polyethyleneterephthalate/Glass Fiber		
TRADE NAME		UNITIKA UNILATE PC		
CHEMICAL FAMILY		MIXTURE OF POLYESTER		
COMPONENTS		MATERIAL	CAS NUMBER	%
		POLYESTER	25038-59-9	<70
		GLASS FIBER	65997-17-3	>30

## SECTION 2 HAZARDOUS INGREDIENTS

PC CONTAINS NO HAZARDOUS INGREDIENTS.

## SECTION 3 PHYSICAL DATA

BOILING POINT(F)	-	SPECIFIC GRAVITY(H <sub>2</sub> O=1)	1.6~1.7
VAPOR PRESSURE(mm Hg)	-	PERCENT VOLATILE BY VOLUME	-
VAPOR DENSITY(AIR=1)	-	EVAPORATION RATE	-
SOLUBILITY IN WATER	INSOLUBLE	MELTING POINT	253°C
APPEARANCE AND ODOR	PELLET FORM, NO ODOR		

## SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	>460°C	FLAMMABLE LIMIT	-
EXTINGUISH MEDIA	ORDINARY MEDIA SUCH AS WATER, CO <sub>2</sub> AND ETC.		
SPECIAL FIRE AND EXPLOSION HAZARDS	USE SUPPLIED BREATHING AIR AND PROCTIVE CLOTHING.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	AVOID DISPERSION OF DUST IN AIR TO REDUCE EXPLOSION POTENTIAL		

## SECTION 5 HEALTH HAZARD DATA

PC ARE NOT HAZARDOUS MATERIAL.

#### SECTION 6 REACTIVITY DATA

STABILITY	STABLE	CONDITION TO AVOID	NONE
INCOMPATIBILITY (MATERIALS TO AVOID)		NOTHING	
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS		BURNING CAN PRODUCE CO, CO <sub>2</sub> AND OTHER PRODUCT OF UNDETERMINED COMPOSITION AND TOXICITY	
HAZARDOUS POLYMERIZATION		WILL NOT OCCUR AT ROOM TEMPERATURE	

#### SECTION 7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	SWEEP UP: COLLECT IN SUITABLE CONTAINER FOR DISPOSAL CAUTION: PELLETS ON FLOORS ARE SLIPPERY AND CAN CAUSE FALLS.
WASTE DISPOSAL METHOD	INCINERATE OR BURY IN A LANDFILL IN ACCORDANCE WITH APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS

#### SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	NOTHING REQUIRED IN NORMAL USE
PROTECTIVE GLOVES	SUBSTANTIAL LEATHER WORK GLOVES
EYE PROTECTION	SAFETY GLASSES
VENTILATION	GENERAL ROOM VENTILATION SHOULD BE ADEQUATE

#### SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORING

AVOID BREATHING DUSTS

FOR INDUSTRY ONLY

#### OTHER PRECAUTIONS

CONVEYING LINES AND EQUIPMENT IN MATERIAL HANDLING SYSTEMS SHOULD BE GROUNDED TO ELIMINATE OR REDUCE BUILDUP OF STATIC ELECTRICITY.  
AVOID SOURCES OF IGNITION, AS IN ANY AREA WHERE DUST MAY BE PRODUCED.

**TO: Dealer Principal and Dealer Service Manager**

**2009 Infiniti**

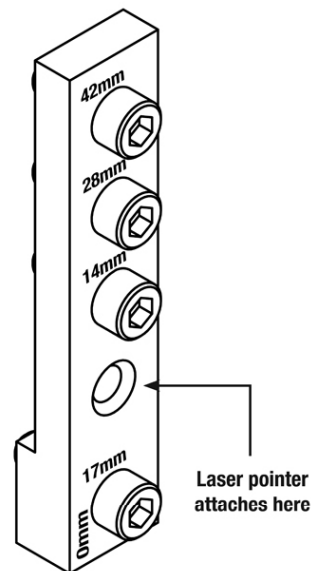
*The following special service tool has been classified essential by Nissan North America, Inc.*

**J-45718-10**

**ICC Aiming Target Block Adapter & Job Aid**

Application: Infiniti vehicles with the Intelligent Cruise Control Option

**Note:** The J-45718-10 block adapter replaces the current small block adapter. Refer to included instructions for installation procedure. There is a laminated job aid 'ICC TARGET BOARD SETUP & USAGE' included in this shipment. Refer to ITB02-059 for detailed information on the complete service procedure.



*This tool will be invoiced to your Non-Vehicle Account at \$27.43 (plus applicable taxes and freight)  
in accordance with your dealer agreement with Nissan North America, Inc.*

*See Opposite Side*

TP090636

**Phone 1-800-662-2001 • FAX 1-586-578-7375**

# Installation Instructions for J-45718-10

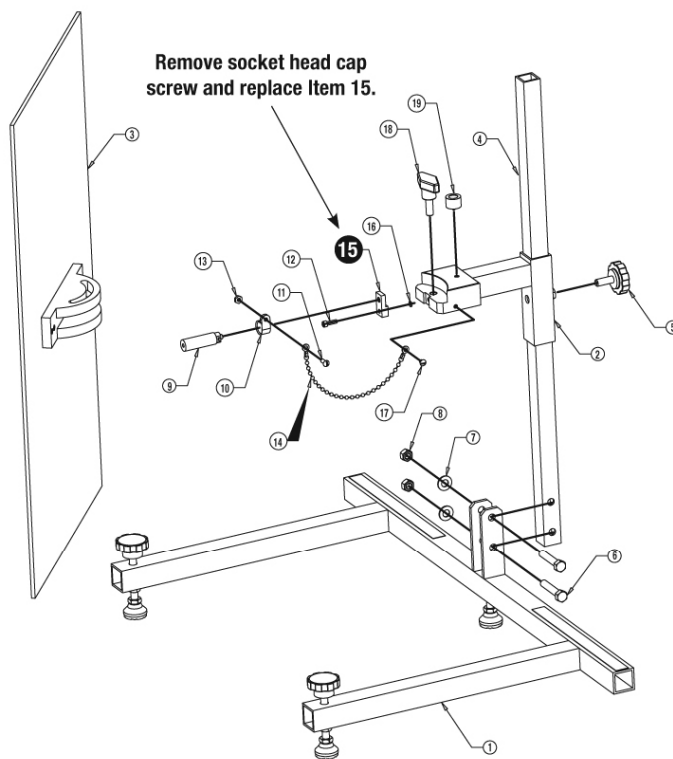
Refer to Drawing 1 below

1. Unscrew the Laser pointer (Item 9) the block adapter.
2. Remove the 10-24 Socket HD Screw (Item 12) from the block adapter.
3. Discard the old adapter. (Item 15)
4. Install new J-45718-10 block adapter.
5. Attach laser pointer to the new block adapter.

**Note:** The laser pointing device is attached with a chain to the slider assembly.

**Figure 1**

#	Description	Order #
1	Support Base	J-45718-1
2	Slider Assembly	J-45718-2
3	ICC Target Board	J-45718-3
4	Vertical Post	549099
5	Clamp Knob	511910
6	3/8 – 16 Cap Screw	10057
7	Washer	10258
8	3/8 – 16 Hex Nut	10204
9	Laser Kit	J-45718-5
10	Plastic Clip	513202
11	10 – 24x.5 Socket HD Screw	11434
12	10 – 24x.63 Socket HD Screw	11152
13	10 – 24 Nut	10197
14	Bead Chain	513201
15	Block Adapter (revised)	552842
16	O-Ring	10265
17	10 – 24x.38 Socket HD Screw	14276
18	Clamp Knob	511916
19	Bullseye Level	511979
Not Shown	LDW/LDP Target Board	J-49192-1
Not Shown	Background Board	J-45718-6
20	Job Aid	554230



Complete Kit Part Number = J-45718-A

Promotion # IF09-213

**KENT-MOORE**  
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